

*Via email to [rob.decandia@dec.ny.gov](mailto:rob.decandia@dec.ny.gov)*

December 17, 2018

Mr. Robert D. DeCandia Jr. P.E.  
NYSDEC, Division of Environmental Remediation  
Division of Environmental Remediation  
625 Broadway  
Albany, New York 12233-7015

Re: Quarterly Groundwater Monitoring Report – Third Quarter 2018  
Frost Street Sites: Site ID #s 1-30043 I, L, M  
New Cassel Industrial Area, Westbury, New York

Dear Mr. DeCandia:

EnSafe Inc. is pleased to submit this Quarterly Groundwater Monitoring Report for Third Quarter (Q3) 2018 sampling activities at the Frost Street Sites (Site ID #s 1-30043 I, L, M) in Westbury, New York. In addition to routine sampling, additional samples were collected and analyzed for emerging contaminants, as described below.

### **Introduction and Background**

Long-term groundwater monitoring is performed at the site to evaluate the performance of the air sparge (AS)/soil vapor extraction (SVE) system, which was installed in 2005 as part of the selected remedy for soil and groundwater at the site. The groundwater extraction system was made operational after the first quarter 2018 sampling event (March 2018); a revised sampling plan to incorporate monitoring for this new system is forthcoming in the Site Management Plan.

Groundwater sampling at the Frost Street Sites is performed in accordance with the NYSDEC-approved *Final Engineering Report and Operation, Maintenance and Monitoring (OM&M) Plan* (Walden, June 2006) and the NYSDEC-approved *Monitoring Well Sampling Addendum* (EnSafe, January 25, 2016). **Figure 1** shows the site related monitoring wells and sampling frequency; **Figure 2** shows the AS/SVE wells and system in its current configuration.

In addition to the routine volatile organic compound (VOC) sampling, samples collected from select wells were also analyzed for emerging contaminants (per- and polyfluoroalkyl substances [PFAS] and 1,4-dioxane). This one-time sampling was performed in accordance with the NYSDEC-approved *Emerging Contaminant Sampling Letter Work Plan* (EnSafe, August 31, 2018) and *Emerging Contaminant Sampling Letter Work Plan – Addendum* (EnSafe, September 10, 2018). Due to equipment limitations and potential PFAS cross-contamination, samples were collected using bladder pumps by low-flow sampling techniques, as approved by NYSDEC by email on September 18, 2018.<sup>1</sup>

### **Sampling Summary**

The third quarter groundwater sampling event was performed on September 26, 27, and 28 and October 1, 2018, at which time groundwater samples were collected from the nine quarterly monitoring wells in accordance with the applicable sampling plans.

- All site-related monitoring wells were gauged for depth to groundwater on October 1, 2018. All wells were accessible except for FSMW5B. Depth to water and calculated groundwater elevations are shown on **Table 1**; historical data is shown on **Table 2**. As shown on **Figures 3** and **4**, groundwater flows southernly, towards the newly installed extraction wells.<sup>2,3</sup> The Frost Street Parties are awaiting NYSDEC review of the *Expanded Pumping Test Summary, Findings, and Recommendations*, submitted on August 10, 2018.
- Samples were collected via low-flow sampling techniques. During purging, the turbidity, specific conductance, pH, and temperature of groundwater in each monitoring well were with a pre-calibrated instrument. Samples were collected from the wells once parameters stabilized.
- Samples were collected from FSMW-1A, FSMW-2A, FSMW-2B, FSMW-4A, FSMW-4B, FSMW-8A, FSMW-13A, FSMW-14A and FSMW-14B for VOC analysis. Samples were collected from FSMW-1A, FSMW-2A, FSMW-4B, FSMW-8A, and FSMW-14A for PFAS and 1,4-dioxane analysis.
- Quality control samples for VOCs were collected in accordance with the *Quality Assurance*

<sup>1</sup> Samples collected during previous events were collected after a minimum of 3 well volumes were removed and parameters stabilized.

<sup>2</sup> Past versions of this report have included groundwater monitoring well construction information and historical water level measurements and elevations prior to AS/SVE system startup in 2005. From this report forward, those data will not be reported in the groundwater monitoring reports.

<sup>3</sup> Monitoring wells were resurveyed in 2018; groundwater elevations calculated using this data are based on revised well elevations, as indicated in the tables.

*Project Plans* (QAPPs) (Walden, June 2006 and EnSafe, August 2018) and include one blind field duplicate (DUP1 10012018), four equipment blanks (EB1 092618, EB2 09272018, EB3 09282018, and EB4 10012018), three field blanks (FB1 09262018, FB2 09272018, and FB3 09282018), two trip blanks (TB1 09262018 and TB2 10012018), and one matrix spike/matrix spike duplicate of samples collected from FSMW-4B.

- o A fourth field blank should have been taken on October 1, 2018, but there was not enough PFAS-free dionized water to collect the sample.
- The groundwater samples were submitted to TestAmerica Laboratories, Inc., of Edison, New Jersey, a NYSDOH ELAP CLP laboratory. All groundwater samples were analyzed for TCL VOCs CLP (OLM 4.2 List) by EPA Method 8260C with Superfund equivalent deliverables in accordance with NYSDEC Analytical Services Protocol (ASP) Category B. Select groundwater samples were analyzed for PFAS by EPA Method 537 (modified) and 1,4-dioxane by EPA Method 8270 SIM with Superfund equivalent deliverables in accordance with NYSDEC Analytical Services Protocol (ASP) Category B.
- Approximately 50 gallons of purge water was accumulated during sampling. This water was temporarily stored in an upright polypropylene tank and filtered through activated carbon. These waters will be combined with AS/SVE system knockout water and once the tank is full, sampled for permit compliance, and then discharged into the NCDPW municipal sewage collection system via the sewer manhole located at the end of Main Street, behind the Century 21 building and just west of the 101 Frost Street sewer line clean-out in accordance with NCDPW authorization.

### **Data Validation Summary**

The TestAmerica analytical data packages for the third quarter 2018 samples were validated to evaluate the analytical laboratory's ability to meet the data quality objectives provided in the QAPP, in accordance with U.S. EPA's (Region II) Contract Laboratory Program National Functional Guidelines for Organic Data Review. The data usability summary report and laboratory data analytical report is attached as Appendix A. Non-compliant data was flagged in accordance with NYSDEC ASP and corrective action was undertaken to rectify any problems.

### **Volatile Organic Compounds**

All of the data were determined to be usable; none of the results were rejected. Matrix spike/matrix spike duplicate and laboratory control sample analysis indicated that quality control requirements were

met for this round of groundwater sampling. The trip blank, method blank, and field blank analyses yielded acceptable results. The samples from FSMW-2A, FSMW-2A – Duplicate, FSMW-14A and FSMW-14B were diluted to bring the concentration of target analytes within the calibration range; all other groundwater samples were analyzed undiluted.

### **Emerging Contaminants**

All of the data were determined to be usable; none of the results were rejected. Matrix spike/matrix spike duplicate and laboratory control sample analysis indicated that quality control requirements were met for this round of groundwater sampling, except for perfluorodecanesulfonic acid (PFDS) in FSMW-4B, which had a percent recovery below the acceptable limits; this PFDS result was qualified as estimated and may be biased low. Various PFAS were detected in the equipment blanks, field blanks, and method blanks; these results were used to qualify the final PFAS results.

### **Summary of Analytical Results**

The validated third quarter 2018 analytical data was submitted to NYSDEC on December 6, 2018 in accordance with the Electronic Data Deliverable requirements.

### **Volatile Organic Compounds**

**Table 3** presents the third quarter 2018 VOC concentrations; **Table 4** presents the VOC concentrations for all quarterly and annual groundwater monitoring events performed to date. Groundwater analytical results are consistent with prior samples collected from the select monitoring wells sampled this quarter. Slight decreases in tetrachloroethene (PCE) and trichloroethene (TCE) concentrations from the previous quarter's results can be noted at all wells except FSMW-2A and FSMW-14A, which showed slight increases. These minor fluctuations are consistent with recent results of 2017 and 2018; in general all wells sampled exhibit an overall decreasing trend since AS/SVE operation and optimization performed in 2015.

### **Emerging Contaminants**

PFAS and 1,4-dioxane data are presented in **Table 5** and **Table 6**, respectively. Groundwater analytical results are below applicable drinking water health advisory levels for all PFAS compounds and 1,4-dioxane.

### **Recommendations**

Continued operation of the AS/SVE system should further decrease PCE and TCE concentrations in monitoring wells located within the radius of influence of the system. Fluctuations at FSMW-1A (and



increases at LRF-1; results submitted in the *March 2018 Comprehensive Groundwater Monitoring Report* [Walden, July 2018]) should be further monitored and evaluated to determine if the AS/SVE system is adequately addressing groundwater impacts in that area of the site. The performance of the AS/SVE system should also be evaluated near the FSMW-8 wells to determine if asymptotic conditions have been reached. Operation of the groundwater extraction system should further decrease concentrations at offsite wells located downgradient of the extraction wells (FSMW-13 and FSMW-14).<sup>4</sup>

Because PFAS and 1,4-dioxane results were below applicable criteria, no further emerging contaminant sampling is recommended.

The third quarter VOC results, collected via low-flow sampling techniques, are consistent with past site data collected after purging a minimum of 3 well volumes. It is recommended that future sampling be performed by low-flow sampling techniques; this minimize wastewaters and improve the efficacy of the sampling process.

If you have any questions or require additional information, please do not hesitate to contact me at 860-665-1140 or [astark@ensafe.com](mailto:astark@ensafe.com).

Sincerely,

EnSafe, Inc., by

Alexandra Stark, P.E.

## **Attachments**

### **Tables**

- 1 Groundwater Elevations – Third Quarter 2018
- 2 Historical Groundwater Elevations
- 3 Groundwater Monitoring Results – Third Quarter 2018
- 4 Historical Groundwater Monitoring Results
- 5 Groundwater Monitoring Results – Per- and Polyfluoroalkyl Substances – Third Quarter 2018
- 6 Groundwater Monitoring Results – 1,4-Dioxane – Third Quarter 2018

### **Figures**

- 1 Monitoring and Extraction Wells

<sup>4</sup> A comprehensive trend analysis at each active monitoring well will be performed in the next annual/fifth quarter monitoring report (second quarter 2019).

- 2 Air Sparge/Soil Vapor Extraction System
- 3 Potentiometric Surface Map, Group A Wells (58-74 feet bgs), Third Quarter 2018
- 4 Potentiometric Surface Map, Group B Wells (114-149 feet bgs), Third Quarter 2018

**Appendix**

- A September 2018 Groundwater Sampling Data Usability Summary Report and Laboratory Analytical Data

|                                        |                                                      |
|----------------------------------------|------------------------------------------------------|
| <b>Copies:</b> A. Tamuno, Esq., NYSDEC | <i>Via email to amtamuno@gw.dec.state.ny.us</i>      |
| C. Bethoney, NYSDOH                    | <i>Via email to charlotte.bethoney@health.ny.gov</i> |
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| J. Vazquez, U.S. EPA                   | <i>Via email to Vazquez.julio@epa.gov</i>            |
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## Tables

**Table 1**  
**Groundwater Elevations - Third Quarter 2018**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used starting<br>Q2 2018 <sup>1</sup><br>(feet AMSL) | Q3 2018<br>(10/1/2018)                |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 125.65                                                                 | 55.36                                 | 70.29                                   |
| FSMW-1A  | 58-68                         | 2                       | 126.03                                                                 | 55.53                                 | 70.50                                   |
| FSMW-1B  | 117-127                       | 2                       | 125.97                                                                 | 55.60                                 | 70.37                                   |
| FSMW-2A  | 60-70                         | 4                       | 124.74                                                                 | 54.47                                 | 70.27                                   |
| FSMW-2B  | 114-124                       | 2                       | 125.05                                                                 | 54.86                                 | 70.19                                   |
| FSMW-3A  | 60-70                         | 2                       | 126.15                                                                 | 55.92                                 | 70.23                                   |
| FSMW-3B  | 135-145                       | 2                       | 126.23                                                                 | 56.17                                 | 70.06                                   |
| FSMW-4A  | 60-70                         | 2                       | 123.95                                                                 | 53.89                                 | 70.06                                   |
| FSMW-4B  | 137-147                       | 2                       | 123.57                                                                 | 53.64                                 | 69.93                                   |
| FSMW-5A  | 60-70                         | 2                       | 118.05                                                                 | NM                                    | NM                                      |
| FSMW-5B  | 130-140                       | 2                       | 117.99                                                                 | 48.36                                 | 69.63                                   |
| FSMW-6A  | 59-69                         | 2                       | 119.17                                                                 | 49.60                                 | 69.57                                   |
| FSMW-6B  | 137-147                       | 2                       | 119.36                                                                 | 50.22                                 | 69.14                                   |
| FSMW-7A  | 60-70                         | 2                       | 121.26                                                                 | 52.02                                 | 69.24                                   |
| FSMW-7B  | 136-146                       | 2                       | 121.44                                                                 | 52.49                                 | 68.95                                   |
| FSMW-8A  | 64-74                         | 2                       | 121.64                                                                 | 51.89                                 | 69.75                                   |
| FSMW-8B  | 132-142                       | 2                       | 121.75                                                                 | 52.01                                 | 69.74                                   |
| FSMW-8C  | 170-180                       | 2                       | 121.43                                                                 | 52.16                                 | 69.27                                   |
| FSMW-8D  | 223-233                       | 2                       | 121.65                                                                 | 52.41                                 | 69.24                                   |
| FSMW-9A  | 60-70                         | 2                       | 124.10                                                                 | 54.29                                 | 69.81                                   |
| FSMW-9B  | 137-147                       | 2                       | 123.91                                                                 | 54.08                                 | 69.83                                   |
| FSMW-10A | 60-70                         | 2                       | 123.59                                                                 | 53.52                                 | 70.07                                   |
| FSMW-10B | 137-147                       | 2                       | 123.68                                                                 | 53.76                                 | 69.92                                   |
| FSMW-11  | 139-149                       | 2                       | 119.34                                                                 | 49.90                                 | 69.44                                   |
| FSMW-12  | 139-149                       | 2                       | 121.30                                                                 | 52.32                                 | 68.98                                   |
| FSMW-13A | 69-79                         | 2                       | 118.00                                                                 | 48.96                                 | 69.04                                   |
| FSMW-13B | 119-129                       | 2                       | 117.94                                                                 | 49.00                                 | 68.94                                   |
| FSMW-13C | 239-249                       | 2                       | 117.81                                                                 | 49.35                                 | 68.46                                   |
| FSMW-14A | 119-129                       | 2                       | 117.16                                                                 | 48.32                                 | 68.84                                   |
| FSMW-14B | 159-169                       | 2                       | 117.36                                                                 | 48.72                                 | 68.64                                   |
| FSMW-14C | 239-249                       | 2                       | 117.19                                                                 | 48.73                                 | 68.46                                   |
| FSMW-19A | 70-80                         | 2                       | 120.32                                                                 | 50.60                                 | 69.72                                   |
| FSMW-19B | 120-130                       | 2                       | 120.22                                                                 | 50.56                                 | 69.66                                   |
| FSMW-19C | 170-180                       | 2                       | 120.17                                                                 | 51.06                                 | 69.11                                   |
| FSMW-19D | 223-233                       | 2                       | 120.60                                                                 | 51.48                                 | 69.12                                   |

**Notes:**

1 All wells were resurveyed in 2018; well elevations presented herein are based on new elevations.  
bgs below ground surface  
AMSL above mean sea level

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 1/5/2005                              |                                         | 9/1/2006                              |                                         | 12/5/2006                             |                                         | 3/6/2007                              |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | NM                                    | NM                                      | 52.38                                 | 74.53                                   | 52.12                                 | 74.79                                   | 52.26                                 | 74.65                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 57.1                                  | 70.21                                   | 52.72                                 | 74.59                                   | 52.51                                 | 74.80                                   | 52.61                                 | 74.70                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 57.1                                  | 70.27                                   | 52.92                                 | 74.45                                   | 52.68                                 | 74.69                                   | 52.73                                 | 74.64                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | NM                                    | NM                                      | 51.81                                 | 74.52                                   | 51.61                                 | 74.72                                   | 51.55                                 | 74.78                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | NM                                    | NM                                      | 52.16                                 | 73.88                                   | 51.97                                 | 74.07                                   | 51.94                                 | 74.10                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 55.3                                  | 72.15                                   | 53.30                                 | 74.15                                   | 53.25                                 | 74.20                                   | 53.00                                 | 74.45                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 57.3                                  | 70.32                                   | 53.51                                 | 74.11                                   | 53.25                                 | 74.37                                   | 53.19                                 | 74.43                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 55.1                                  | 70.20                                   | 51.70                                 | 73.60                                   | 51.51                                 | 73.79                                   | 51.00                                 | 74.30                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 55.5                                  | 69.36                                   | 50.90                                 | 73.96                                   | 50.70                                 | 74.16                                   | 51.10                                 | 73.76                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 49.3                                  | 70.25                                   | 45.62                                 | 73.93                                   | 45.43                                 | 74.12                                   | 45.42                                 | 74.13                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 49.8                                  | 69.73                                   | 45.70                                 | 73.83                                   | 45.49                                 | 74.04                                   | 45.56                                 | 73.97                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 50.9                                  | 69.55                                   | 46.56                                 | 73.89                                   | 46.36                                 | 74.09                                   | 47.57                                 | 72.88                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 51.4                                  | 69.21                                   | 47.13                                 | 73.48                                   | 46.92                                 | 73.69                                   | 47.40                                 | 73.21                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 53.5                                  | 69.16                                   | 49.25                                 | 73.41                                   | 49.04                                 | 73.62                                   | 48.95                                 | 73.71                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 54.0                                  | 68.68                                   | 49.56                                 | 73.12                                   | 49.37                                 | 73.31                                   | 49.30                                 | 73.38                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 53.0                                  | 69.95                                   | 49.13                                 | 73.82                                   | 48.94                                 | 74.01                                   | 48.93                                 | 74.02                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 53.2                                  | 69.88                                   | 49.25                                 | 73.83                                   | 48.93                                 | 74.15                                   | 49.04                                 | 74.04                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 55.2                                  | 70.18                                   | 51.80                                 | 73.58                                   | 51.60                                 | 73.78                                   | 51.59                                 | 73.79                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 55.2                                  | 70.07                                   | 51.35                                 | 73.92                                   | 51.16                                 | 74.11                                   | 51.68                                 | 73.59                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 54.7                                  | 70.17                                   | 50.80                                 | 74.07                                   | 50.59                                 | 74.28                                   | 50.65                                 | 74.22                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 54.9                                  | 70.03                                   | 50.98                                 | 73.95                                   | 50.79                                 | 74.14                                   | 50.81                                 | 74.12                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 51.2                                  | 69.60                                   | 47.14                                 | 73.66                                   | 46.95                                 | 73.85                                   | 46.92                                 | 73.88                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 53.5                                  | 69.05                                   | 49.13                                 | 73.42                                   | 46.93                                 | 75.62                                   | 48.93                                 | 73.62                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 50.6                                  | not surveyed                            | 46.07                                 | not surveyed                            | 45.86                                 | not surveyed                            | 46.31                                 | not surveyed                            |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 50.6                                  | not surveyed                            | 46.01                                 | not surveyed                            | 45.82                                 | not surveyed                            | 46.42                                 | not surveyed                            |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 50.6                                  | not surveyed                            | 46.75                                 | not surveyed                            | 46.54                                 | not surveyed                            | 46.49                                 | not surveyed                            |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 50.1                                  | not surveyed                            | 45.50                                 | not surveyed                            | 45.31                                 | not surveyed                            | 45.10                                 | not surveyed                            |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 50.5                                  | not surveyed                            | 45.91                                 | not surveyed                            | 45.71                                 | not surveyed                            | 45.52                                 | not surveyed                            |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 50.5                                  | not surveyed                            | 46.22                                 | not surveyed                            | 46.03                                 | not surveyed                            | 45.69                                 | not surveyed                            |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 5/25/2007                             |                                         | 8/31/2007                             |                                         | 12/11/2007                            |                                         | 3/7/2008                              |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | 51.26                                 | 75.65                                   | 50.36                                 | 76.55                                   | 51.01                                 | 75.90                                   | 50.87                                 | 76.04                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 51.60                                 | 75.71                                   | 50.70                                 | 76.61                                   | 51.35                                 | 75.96                                   | 51.21                                 | 76.10                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 51.73                                 | 75.64                                   | 50.91                                 | 76.46                                   | 51.52                                 | 75.85                                   | 51.45                                 | 75.92                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 50.72                                 | 75.61                                   | 49.77                                 | 76.56                                   | 50.41                                 | 75.92                                   | 50.31                                 | 76.02                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 51.00                                 | 75.04                                   | 50.10                                 | 75.94                                   | 50.77                                 | 75.27                                   | 50.85                                 | 75.19                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 52.19                                 | 75.26                                   | 51.15                                 | 76.30                                   | 51.89                                 | 75.56                                   | 51.60                                 | 75.85                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 52.25                                 | 75.37                                   | 51.48                                 | 76.14                                   | 52.07                                 | 75.55                                   | 52.05                                 | 75.57                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 50.61                                 | 74.69                                   | 49.45                                 | 75.85                                   | 50.14                                 | 75.16                                   | 49.64                                 | 75.66                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 49.76                                 | 75.10                                   | 48.84                                 | 76.02                                   | 49.94                                 | 74.92                                   | 49.51                                 | 75.35                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 44.36                                 | 75.19                                   | 43.69                                 | 75.86                                   | 44.50                                 | 75.05                                   | 44.40                                 | 75.15                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 44.54                                 | 74.99                                   | 43.77                                 | 75.76                                   | 44.50                                 | 75.03                                   | 44.50                                 | 75.03                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 45.59                                 | 74.86                                   | 44.70                                 | 75.75                                   | 45.55                                 | 74.90                                   | 45.50                                 | 74.94                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 46.06                                 | 74.55                                   | 45.25                                 | 75.36                                   | 46.01                                 | 74.60                                   | 46.04                                 | 74.57                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 48.17                                 | 74.49                                   | 47.34                                 | 75.32                                   | 48.17                                 | 74.49                                   | 48.10                                 | 74.56                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 48.44                                 | 74.24                                   | 47.66                                 | 75.02                                   | 48.57                                 | 74.11                                   | 48.18                                 | 74.50                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 48.09                                 | 74.86                                   | 47.13                                 | 75.82                                   | 47.90                                 | 75.05                                   | 47.97                                 | 74.98                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 48.15                                 | 74.93                                   | 47.26                                 | 75.82                                   | 48.00                                 | 75.08                                   | 48.30                                 | 74.78                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 50.67                                 | 74.71                                   | 49.55                                 | 75.83                                   | 50.32                                 | 75.06                                   | 51.05                                 | 74.33                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 50.19                                 | 75.08                                   | NA                                    | NA                                      | 50.05                                 | 75.22                                   | 50.23                                 | 75.04                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 49.81                                 | 75.06                                   | 48.85                                 | 76.02                                   | 49.51                                 | 75.36                                   | 49.48                                 | 75.39                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 49.84                                 | 75.09                                   | 49.02                                 | 75.91                                   | 49.71                                 | 75.22                                   | 49.85                                 | 75.08                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 46.05                                 | 74.75                                   | 45.23                                 | 75.57                                   | 46.00                                 | 74.80                                   | 46.00                                 | 74.80                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 48.05                                 | 74.50                                   | 47.23                                 | 75.32                                   | 48.00                                 | 74.55                                   | 48.06                                 | 74.49                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 45.05                                 | not surveyed                            | 44.26                                 | not surveyed                            | 45.07                                 | 74.28                                   | 45.01                                 | 74.34                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 44.97                                 | not surveyed                            | 44.20                                 | not surveyed                            | 44.97                                 | 74.21                                   | 44.92                                 | 74.26                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 45.52                                 | not surveyed                            | 44.90                                 | not surveyed                            | 45.54                                 | 73.58                                   | 45.38                                 | 73.74                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 44.43                                 | not surveyed                            | 43.68                                 | not surveyed                            | 44.46                                 | 74.06                                   | 44.38                                 | 74.14                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 44.81                                 | not surveyed                            | 44.10                                 | not surveyed                            | 44.93                                 | 73.80                                   | 44.73                                 | 74.00                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 44.97                                 | not surveyed                            | 44.35                                 | not surveyed                            | 45.00                                 | 73.42                                   | 44.84                                 | 73.58                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 6/13/2008                             |                                         | 9/30/2008                             |                                         | 12/11/2008                            |                                         | 3/9/2009                              |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | 50.82                                 | 76.09                                   | 51.14                                 | 75.77                                   | 51.50                                 | 75.41                                   | 51.10                                 | 75.81                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 51.15                                 | 76.16                                   | 51.52                                 | 75.79                                   | 51.93                                 | 75.36                                   | 51.43                                 | 75.86                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 51.31                                 | 76.06                                   | 51.71                                 | 75.66                                   | 52.14                                 | 75.20                                   | 51.65                                 | 75.69                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 50.25                                 | 76.08                                   | 50.84                                 | 75.49                                   | 50.90                                 | 75.43                                   | 50.38                                 | 75.95                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 50.59                                 | 75.45                                   | 50.95                                 | 75.09                                   | 51.55                                 | 74.49                                   | 50.87                                 | 75.17                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 51.69                                 | 75.76                                   | 52.10                                 | 75.35                                   | 52.32                                 | 75.13                                   | 51.78                                 | 75.67                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 51.89                                 | 75.73                                   | 52.23                                 | 75.30                                   | 52.54                                 | 74.99                                   | 51.90                                 | 75.63                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 50.00                                 | 75.30                                   | 50.37                                 | 74.93                                   | 50.34                                 | 74.91                                   | 49.80                                 | 75.45                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 49.38                                 | 75.48                                   | 49.73                                 | 75.13                                   | 50.15                                 | 74.71                                   | 49.81                                 | 75.05                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 44.29                                 | 75.26                                   | 44.55                                 | 75.00                                   | 44.98                                 | 74.32                                   | 44.45                                 | 74.85                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 44.33                                 | 75.20                                   | 44.62                                 | 74.91                                   | 45.02                                 | 74.17                                   | 44.50                                 | 74.69                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 45.38                                 | 75.07                                   | 45.53                                 | 74.92                                   | 46.38                                 | 74.06                                   | 45.85                                 | 74.59                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 45.86                                 | 74.75                                   | 46.07                                 | 74.54                                   | 46.78                                 | 73.83                                   | 46.13                                 | 74.48                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 48.04                                 | 74.62                                   | 48.22                                 | 74.44                                   | 48.81                                 | 73.65                                   | 48.20                                 | 74.26                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 48.23                                 | 74.45                                   | 48.59                                 | 74.09                                   | 49.20                                 | 73.48                                   | 48.49                                 | 74.19                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 47.74                                 | 75.21                                   | 48.01                                 | 74.94                                   | 48.48                                 | 74.47                                   | 47.90                                 | 75.05                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 47.83                                 | 75.25                                   | 48.16                                 | 74.92                                   | 48.61                                 | 74.46                                   | 48.05                                 | 75.02                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 50.16                                 | 75.22                                   | 50.56                                 | 74.82                                   | 50.71                                 | 74.69                                   | 50.18                                 | 75.22                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 49.90                                 | 75.37                                   | 50.19                                 | 75.08                                   | 50.61                                 | 74.67                                   | 50.02                                 | 75.26                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 49.34                                 | 75.53                                   | 49.61                                 | 75.26                                   | 50.01                                 | 74.86                                   | 49.50                                 | 75.37                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 49.50                                 | 75.43                                   | 49.85                                 | 75.08                                   | 50.31                                 | 74.71                                   | 49.70                                 | 75.32                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 45.82                                 | 74.98                                   | 46.06                                 | 74.74                                   | 46.55                                 | 74.25                                   | 45.96                                 | 74.84                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 47.85                                 | 74.70                                   | 48.07                                 | 74.48                                   | 48.77                                 | 73.78                                   | 48.12                                 | 74.43                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 44.93                                 | 74.42                                   | 44.96                                 | 74.39                                   | 45.83                                 | 73.42                                   | 45.19                                 | 74.06                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 44.84                                 | 74.34                                   | 44.96                                 | 74.22                                   | 45.81                                 | 73.37                                   | 45.13                                 | 74.05                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 45.39                                 | 73.73                                   | 45.70                                 | 73.42                                   | 46.31                                 | 72.76                                   | 45.32                                 | 73.75                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 44.32                                 | 74.20                                   | 44.36                                 | 74.16                                   | 45.20                                 | 73.19                                   | 44.49                                 | 73.90                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 44.70                                 | 74.03                                   | 44.83                                 | 73.74                                   | 45.51                                 | 73.06                                   | 44.85                                 | 73.72                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 44.83                                 | 73.59                                   | 45.14                                 | 73.28                                   | 45.72                                 | 72.70                                   | 44.74                                 | 73.68                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 6/12/2009                             |                                         | 10/5/2009                             |                                         | 12/18/2009                            |                                         | 3/11/2010                             |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | 51.45                                 | 75.46                                   | NM                                    | NM                                      | 51.24                                 | 75.67                                   | 50.65                                 | 76.26                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 51.77                                 | 75.52                                   | NM                                    | NM                                      | 51.59                                 | 75.70                                   | 51.00                                 | 76.29                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 52.02                                 | 75.32                                   | NM                                    | NM                                      | 51.74                                 | 75.60                                   | 51.09                                 | 76.25                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 50.79                                 | 75.54                                   | 51.05                                 | 75.28                                   | 50.56                                 | 75.77                                   | 49.99                                 | 76.34                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 51.21                                 | 74.83                                   | 50.70                                 | 75.34                                   | 51.05                                 | 74.99                                   | 50.32                                 | 75.72                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 52.21                                 | 75.24                                   | 52.05                                 | 75.40                                   | 51.97                                 | 75.48                                   | 51.46                                 | 75.99                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 52.28                                 | 75.25                                   | 52.32                                 | 75.21                                   | 52.33                                 | 75.20                                   | 51.44                                 | 76.09                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 50.30                                 | 74.95                                   | 50.12                                 | 75.13                                   | 49.89                                 | 75.36                                   | 49.55                                 | 75.70                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 49.83                                 | 75.03                                   | 49.87                                 | 74.99                                   | 49.70                                 | 75.16                                   | 49.38                                 | 75.48                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 44.66                                 | 74.64                                   | 44.79                                 | 74.51                                   | 44.53                                 | 74.77                                   | 43.64                                 | 75.66                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 44.59                                 | 74.60                                   | 44.70                                 | 74.49                                   | 44.49                                 | 74.70                                   | 43.62                                 | 75.57                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 48.00                                 | 72.44                                   | 46.10                                 | 74.34                                   | 45.75                                 | 74.69                                   | 44.79                                 | 75.65                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 46.30                                 | 74.31                                   | 46.43                                 | 74.18                                   | 46.22                                 | 74.39                                   | 45.22                                 | 75.39                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 48.38                                 | 74.08                                   | 48.54                                 | 73.92                                   | 48.27                                 | 74.19                                   | 47.12                                 | 75.34                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 48.68                                 | 74.00                                   | 48.85                                 | 73.83                                   | 48.71                                 | 73.97                                   | 47.54                                 | 75.15                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 48.22                                 | 74.73                                   | 48.24                                 | 74.71                                   | 48.00                                 | 74.95                                   | 47.30                                 | 75.65                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 48.31                                 | 74.76                                   | 48.43                                 | 74.64                                   | 48.19                                 | 74.88                                   | 47.39                                 | 75.68                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 50.55                                 | 74.85                                   | 50.42                                 | 74.98                                   | 50.27                                 | 75.13                                   | 49.73                                 | 75.67                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 50.32                                 | 74.96                                   | 50.31                                 | 74.97                                   | 50.15                                 | 75.13                                   | 49.61                                 | 75.67                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 49.78                                 | 75.09                                   | 49.85                                 | 75.02                                   | 49.66                                 | 75.21                                   | 49.05                                 | 75.82                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 50.04                                 | 74.98                                   | 50.07                                 | 74.95                                   | 49.94                                 | 75.08                                   | 49.14                                 | 75.88                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 46.10                                 | 74.70                                   | 46.24                                 | 74.56                                   | 46.02                                 | 74.78                                   | 45.10                                 | 75.70                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 48.31                                 | 74.24                                   | 48.49                                 | 74.06                                   | 48.27                                 | 74.28                                   | 47.19                                 | 75.36                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 45.01                                 | 74.24                                   | 45.49                                 | 73.76                                   | 45.16                                 | 74.09                                   | 44.06                                 | 75.19                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 44.98                                 | 74.20                                   | 45.43                                 | 73.75                                   | 45.08                                 | 74.10                                   | 44.03                                 | 75.15                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 45.68                                 | 73.39                                   | 45.75                                 | 73.32                                   | 45.30                                 | 73.77                                   | 44.21                                 | 74.86                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 44.33                                 | 74.06                                   | 44.82                                 | 73.57                                   | 44.55                                 | 73.84                                   | 43.35                                 | 75.04                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 44.83                                 | 73.74                                   | 45.06                                 | 73.51                                   | 45.37**                               | 73.20                                   | 43.67                                 | 74.90                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 44.12                                 | 74.30                                   | 45.18                                 | 73.24                                   | NM                                    | NM                                      | 43.85                                 | 74.57                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |



**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 6/17/2010                             |                                         | 10/4/2010                             |                                         | 12/17/2010                            |                                         | 4/1/2011                              |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | NM                                    | NM                                      | 48.42                                 | 78.49                                   | 49.83                                 | 77.08                                   | 50.14                                 | 76.77                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 48.18                                 | 79.11                                   | 49.29                                 | 78.00                                   | 50.14                                 | 77.15                                   | 50.50                                 | 76.79                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 48.53                                 | 78.81                                   | 49.70                                 | 77.64                                   | 50.06                                 | 77.28                                   | 50.51                                 | 76.83                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 47.17                                 | 79.16                                   | 48.14                                 | 78.19                                   | 49.13                                 | 77.20                                   | 49.44                                 | 76.89                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 47.32                                 | 78.72                                   | 48.41                                 | 77.63                                   | 49.38                                 | 76.66                                   | 50.23                                 | 75.81                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 48.59                                 | 78.86                                   | 49.66                                 | 77.79                                   | 50.65                                 | 76.80                                   | 50.88                                 | 76.57                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 48.94                                 | 78.59                                   | 50.05                                 | 77.48                                   | 50.81                                 | 76.72                                   | 51.14                                 | 76.39                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 46.30                                 | 78.95                                   | 47.65                                 | 77.60                                   | 48.64                                 | 76.61                                   | 51.07                                 | 74.18                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 46.39                                 | 78.47                                   | 47.33                                 | 77.53                                   | 48.41                                 | 76.45                                   | 48.61                                 | 76.25                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 41.31                                 | 77.99                                   | 42.11                                 | 77.19                                   | 43.17                                 | 76.13                                   | 42.86                                 | 76.44                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 41.25                                 | 77.94                                   | 42.03                                 | 77.16                                   | 43.08                                 | 76.11                                   | 43.47                                 | 75.72                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 42.60                                 | 77.84                                   | 43.31                                 | 77.13                                   | 44.41                                 | 76.03                                   | 44.80                                 | 75.64                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 43.02                                 | 77.59                                   | 43.71                                 | 76.90                                   | 44.87                                 | 75.74                                   | 45.23                                 | 75.38                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 44.98                                 | 77.48                                   | 45.89                                 | 76.57                                   | 47.33                                 | 75.13                                   | 47.19                                 | 75.27                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 45.42                                 | 77.26                                   | 46.23                                 | 76.45                                   | 46.90                                 | 75.78                                   | 47.65                                 | 75.03                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 44.74                                 | 78.21                                   | 45.67                                 | 77.28                                   | 46.66                                 | 76.29                                   | 46.82                                 | 76.13                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 44.87                                 | 78.20                                   | 45.84                                 | 77.23                                   | 46.81                                 | 76.26                                   | 47.10                                 | 75.97                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 47.05                                 | 78.35                                   | 48.02                                 | 77.38                                   | 48.98                                 | 76.42                                   | 49.66                                 | 75.74                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 46.88                                 | 78.40                                   | 47.90                                 | 77.38                                   | 48.80                                 | 76.48                                   | 49.12                                 | 76.16                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 46.35                                 | 78.52                                   | 47.36                                 | 77.51                                   | 48.80                                 | 76.07                                   | 48.81                                 | 76.06                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 46.57                                 | 78.45                                   | 47.66                                 | 77.36                                   | 48.53                                 | 76.49                                   | 48.80                                 | 76.22                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 42.80                                 | 78.00                                   | 43.55                                 | 77.25                                   | 44.65                                 | 76.15                                   | 45.02                                 | 75.78                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 45.00                                 | 77.55                                   | 45.77                                 | 76.78                                   | 45.77                                 | 76.78                                   | 47.22                                 | 75.33                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 42.03                                 | 77.22                                   | 42.42                                 | 76.83                                   | 43.83                                 | 75.42                                   | 44.26                                 | 74.99                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 42.00                                 | 77.18                                   | 42.43                                 | 76.75                                   | 43.73                                 | 75.45                                   | 44.27                                 | 74.91                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 42.21                                 | 76.86                                   | 43.41                                 | 75.66                                   | 44.41                                 | 74.66                                   | 44.97                                 | 74.10                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 41.41                                 | 76.98                                   | 41.83                                 | 76.56                                   | 43.22                                 | 75.17                                   | 43.62                                 | 74.77                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 41.83                                 | 76.74                                   | 42.66                                 | 75.91                                   | 43.51                                 | 75.06                                   | 44.28                                 | 74.29                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 41.96                                 | 76.46                                   | 42.55                                 | 75.87                                   | 43.89                                 | 74.53                                   | 44.34                                 | 74.08                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 7/28/2011                             |                                         | 12/23/2011                            |                                         | 4/11/2012                             |                                         | 7/26/2012                             |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | 50.47                                 | 76.44                                   | NM                                    | NM                                      | NM                                    | NM                                      | 49.02                                 | 77.89                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 50.80                                 | 76.49                                   | 48.27                                 | 79.02                                   | 49.48                                 | 77.81                                   | 49.38                                 | 77.91                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 51.00                                 | 76.34                                   | 48.41                                 | 78.93                                   | 49.66                                 | 77.68                                   | 49.53                                 | 77.81                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 49.86                                 | 76.47                                   | 47.20                                 | 79.13                                   | 48.50                                 | 77.83                                   | 48.28                                 | 78.05                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 50.29                                 | 75.75                                   | 47.74                                 | 78.30                                   | 48.94                                 | 77.10                                   | 48.78                                 | 77.26                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 51.23                                 | 76.22                                   | 48.65                                 | 78.80                                   | 49.88                                 | 77.57                                   | 49.71                                 | 77.74                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 51.68                                 | 75.85                                   | 48.91                                 | 78.62                                   | 50.16                                 | 77.37                                   | 50.12                                 | 77.41                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 49.42                                 | 75.83                                   | 46.70                                 | 78.55                                   | 48.00                                 | 77.25                                   | 47.56                                 | 77.69                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 49.16                                 | 75.70                                   | 46.46                                 | 78.40                                   | 47.71                                 | 77.15                                   | 47.74                                 | 77.12                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 44.05                                 | 75.25                                   | 41.25                                 | 78.05                                   | 42.74                                 | 76.56                                   | 42.39                                 | 76.91                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 44.06                                 | 75.13                                   | 40.41                                 | 78.78                                   | 42.63                                 | 76.56                                   | 42.41                                 | 76.78                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 45.41                                 | 75.03                                   | 42.65                                 | 77.79                                   | 44.09                                 | 76.35                                   | 43.71                                 | 76.73                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 45.95                                 | 74.66                                   | 43.00                                 | 77.61                                   | 44.42                                 | 76.19                                   | 44.18                                 | 76.43                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 47.88                                 | 74.58                                   | 45.05                                 | 77.41                                   | 46.44                                 | 76.02                                   | 46.13                                 | 76.33                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 48.40                                 | 74.28                                   | 45.43                                 | 77.25                                   | 46.81                                 | 75.87                                   | 46.60                                 | 76.08                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 47.49                                 | 75.46                                   | 44.68                                 | 78.27                                   | 45.10                                 | 77.85                                   | 45.85                                 | 77.10                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 47.68                                 | 75.39                                   | 44.84                                 | 78.23                                   | 46.25                                 | 76.82                                   | 46.04                                 | 77.03                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 49.64                                 | 75.76                                   | 46.97                                 | 78.43                                   | 48.36                                 | 77.04                                   | 48.11                                 | 77.29                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 49.75                                 | 75.53                                   | 46.87                                 | 78.41                                   | 48.23                                 | 77.05                                   | 48.04                                 | 77.24                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 49.02                                 | 75.85                                   | 46.26                                 | 78.61                                   | 47.68                                 | 77.19                                   | 47.45                                 | 77.42                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 49.29                                 | 75.73                                   | 46.62                                 | 78.40                                   | 47.90                                 | 77.12                                   | 47.74                                 | 77.28                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 45.63                                 | 75.17                                   | 42.82                                 | 77.98                                   | 44.20                                 | 76.60                                   | 43.95                                 | 76.85                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 47.91                                 | 74.64                                   | 45.01                                 | 77.54                                   | 46.40                                 | 76.15                                   | 46.17                                 | 76.38                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 45.04                                 | 74.21                                   | 42.05                                 | 77.20                                   | 43.51                                 | 75.74                                   | 43.21                                 | 76.04                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 45.02                                 | 74.16                                   | 42.02                                 | 77.16                                   | 43.46                                 | 75.72                                   | 43.20                                 | 75.98                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 45.86                                 | 73.21                                   | 42.49                                 | 76.58                                   | 43.89                                 | 75.18                                   | 43.89                                 | 75.18                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 44.45                                 | 73.94                                   | 41.39                                 | 77.00                                   | 42.84                                 | 75.55                                   | 42.60                                 | 75.79                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 44.68                                 | 73.89                                   | 41.73                                 | 76.84                                   | 43.13                                 | 75.44                                   | 42.96                                 | 75.61                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 45.34                                 | 73.08                                   | 41.92                                 | 76.50                                   | 43.34                                 | 75.08                                   | 43.33                                 | 75.09                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 11/16/2012                            |                                         | 7/17/2013                             |                                         | 10/28/2013                            |                                         | 3/27/2014                             |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | 49.70                                 | 77.21                                   | 49.90                                 | 77.01                                   | 51.95                                 | 74.96                                   | 53.19                                 | 73.72                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 50.01                                 | 77.28                                   | 50.24                                 | 77.05                                   | 52.25                                 | 75.04                                   | 53.50                                 | 73.79                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 52.37                                 | 74.97                                   | 50.45                                 | 76.89                                   | 52.45                                 | 74.89                                   | 53.45                                 | 73.89                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 48.99                                 | 77.34                                   | 49.25                                 | 77.08                                   | 52.85                                 | 73.48                                   | 52.65                                 | 73.68                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 49.54                                 | 76.50                                   | 49.70                                 | 76.34                                   | 51.59                                 | 74.45                                   | 53.12                                 | 72.92                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 50.41                                 | 77.04                                   | 50.61                                 | 76.84                                   | 52.70                                 | 74.75                                   | 54.00                                 | 73.45                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 54.06                                 | 73.47                                   | 51.10                                 | 76.43                                   | 53.00                                 | 74.53                                   | 54.28                                 | 73.25                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 48.47                                 | 76.78                                   | 48.80                                 | 76.45                                   | 50.73                                 | 74.52                                   | 52.62                                 | 72.63                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 48.27                                 | 76.59                                   | 48.45                                 | 76.41                                   | 50.55                                 | 74.31                                   | 52.20                                 | 72.66                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 43.23                                 | 76.07                                   | 43.20                                 | 76.10                                   | 45.46                                 | 73.84                                   | 46.55                                 | 72.75                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 44.58                                 | 74.61                                   | 43.22                                 | 75.97                                   | 45.39                                 | 73.80                                   | 46.55                                 | 72.64                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 44.52                                 | 75.92                                   | 44.43                                 | 76.01                                   | 46.82                                 | 73.62                                   | 48.25                                 | 72.19                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 44.91                                 | 75.70                                   | 45.03                                 | 75.58                                   | 47.27                                 | 73.34                                   | 47.75                                 | 72.86                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 46.85                                 | 75.61                                   | 46.93                                 | 75.53                                   | 49.28                                 | 73.18                                   | 50.14                                 | 72.32                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 47.30                                 | 75.38                                   | 47.50                                 | 75.18                                   | 49.66                                 | 73.02                                   | 50.57                                 | 72.11                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 46.75                                 | 76.20                                   | 46.71                                 | 76.24                                   | 48.87                                 | 74.08                                   | 50.30                                 | 72.65                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 46.58                                 | 76.49                                   | 46.90                                 | 76.17                                   | 49.02                                 | 74.05                                   | 50.35                                 | 72.72                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 48.81                                 | 76.59                                   | 49.05                                 | 76.35                                   | 51.10                                 | 74.30                                   | 52.50                                 | 72.90                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 48.85                                 | 76.43                                   | 48.92                                 | 76.36                                   | 51.02                                 | 74.26                                   | 53.03                                 | 72.25                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 48.15                                 | 76.72                                   | 48.38                                 | 76.49                                   | 50.44                                 | 74.43                                   | 51.80                                 | 73.07                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 48.42                                 | 76.60                                   | 48.65                                 | 76.37                                   | 50.68                                 | 74.34                                   | 52.19                                 | 72.83                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 44.72                                 | 76.08                                   | 44.78                                 | 76.02                                   | 46.95                                 | 73.85                                   | 48.11                                 | 72.69                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 46.40                                 | 76.15                                   | 46.95                                 | 75.60                                   | 49.21                                 | 73.34                                   | 50.24                                 | 72.31                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 43.95                                 | 75.30                                   | 44.00                                 | 75.25                                   | 46.24                                 | 73.01                                   | 47.22                                 | 72.03                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 43.93                                 | 75.25                                   | 44.20                                 | 74.98                                   | 46.16                                 | 73.02                                   | 47.19                                 | 71.99                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 44.39                                 | 74.68                                   | 44.92                                 | 74.15                                   | 46.45                                 | 72.62                                   | 47.73                                 | 71.34                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 43.30                                 | 75.09                                   | 43.43                                 | 74.96                                   | 45.55                                 | 72.84                                   | 46.54                                 | 71.85                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 43.62                                 | 74.95                                   | 43.85                                 | 74.72                                   | 45.81                                 | 72.76                                   | 46.86                                 | 71.71                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 43.83                                 | 74.59                                   | 44.36                                 | 74.06                                   | 45.90                                 | 72.52                                   | 47.20                                 | 71.22                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 6/25/2014                             |                                         | 10/6/2014                             |                                         | 12/17/2014                            |                                         | 4/1/2015                              |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | 52.01                                 | 74.90                                   | 53.02                                 | 73.89                                   | 53.25                                 | 73.66                                   | 52.02                                 | 74.89                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 52.33                                 | 74.96                                   | 53.18                                 | 74.11                                   | 52.67                                 | 74.62                                   | 52.18                                 | 75.11                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 52.50                                 | 74.84                                   | 53.14                                 | 74.20                                   | 53.40                                 | 73.94                                   | 52.05                                 | 75.29                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 51.35                                 | 74.98                                   | 49.11                                 | 77.22                                   | 51.78                                 | 74.55                                   | 51.23                                 | 75.10                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 51.76                                 | 74.28                                   | 49.51                                 | 76.53                                   | 52.70                                 | 73.34                                   | 51.35                                 | 74.69                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 52.76                                 | 74.69                                   | NM                                    | NM                                      | 53.32                                 | 74.13                                   | 52.75                                 | 74.70                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 53.08                                 | 74.45                                   | NM                                    | NM                                      | 53.18                                 | 74.35                                   | 52.67                                 | 74.86                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 50.94                                 | 74.31                                   | 51.24                                 | 74.01                                   | 51.76                                 | 73.49                                   | 50.95                                 | 74.30                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 50.49                                 | 74.37                                   | 51.51                                 | 73.35                                   | 50.79                                 | 74.07                                   | 50.29                                 | 74.57                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 45.24                                 | 74.06                                   | 46.09                                 | 73.21                                   | 45.24                                 | 74.06                                   | 44.82                                 | 74.48                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 45.18                                 | 74.01                                   | 46.06                                 | 73.13                                   | 45.28                                 | 73.91                                   | 44.89                                 | 74.30                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 46.49                                 | 73.95                                   | 47.48                                 | 72.96                                   | 46.40                                 | 74.04                                   | 46.08                                 | 74.36                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 46.95                                 | 73.66                                   | 47.83                                 | 72.78                                   | 46.73                                 | 73.88                                   | 46.47                                 | 74.14                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 48.93                                 | 73.53                                   | 50.23                                 | 72.23                                   | 48.93                                 | 73.53                                   | 48.36                                 | 74.10                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 48.37                                 | 74.31                                   | 49.97                                 | 72.71                                   | 48.45                                 | 74.23                                   | 48.80                                 | 73.88                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 48.78                                 | 74.17                                   | 49.56                                 | 73.39                                   | 49.70                                 | 73.25                                   | 48.62                                 | 74.33                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 48.93                                 | 74.14                                   | 48.74                                 | 74.33                                   | 49.15                                 | 73.92                                   | 48.66                                 | 74.41                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 51.26                                 | 74.14                                   | 51.82                                 | 73.58                                   | 51.63                                 | 73.77                                   | 51.05                                 | 74.35                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 50.94                                 | 74.34                                   | 51.73                                 | 73.55                                   | 51.25                                 | 74.03                                   | 50.69                                 | 74.59                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 50.46                                 | 74.41                                   | 51.16                                 | 73.71                                   | 50.79                                 | 74.08                                   | 50.31                                 | 74.56                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 50.68                                 | 74.34                                   | 51.46                                 | 73.56                                   | 50.92                                 | 74.10                                   | 50.39                                 | 74.63                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 46.24                                 | 74.56                                   | 47.61                                 | 73.19                                   | 46.75                                 | 74.05                                   | 46.33                                 | 74.47                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 48.96                                 | 73.59                                   | 49.84                                 | 72.71                                   | 48.89                                 | 73.66                                   | 48.41                                 | 74.14                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 45.75                                 | 73.50                                   | 46.83                                 | 72.42                                   | 45.79                                 | 73.46                                   | 45.29                                 | 73.96                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 45.61                                 | 73.57                                   | 46.79                                 | 72.39                                   | 45.81                                 | 73.37                                   | 45.25                                 | 73.93                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 45.69                                 | 73.38                                   | 46.17                                 | 72.90                                   | 46.64                                 | 72.43                                   | 45.68                                 | 73.39                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 45.73                                 | 72.66                                   | 46.26                                 | 72.13                                   | 45.24                                 | 73.15                                   | 44.57                                 | 73.82                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 45.70                                 | 72.87                                   | 46.62                                 | 71.95                                   | 45.66                                 | 72.91                                   | 44.88                                 | 73.69                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 46.28                                 | 72.14                                   | 46.67                                 | 71.75                                   | 46.20                                 | 72.22                                   | 45.09                                 | 73.33                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 7/16/2015                             |                                         | 10/5/2015                             |                                         | 12/9/2015                             |                                         | 4/8/2016                              |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | 52.54                                 | 74.37                                   | 52.56                                 | 74.35                                   | 53.13                                 | 73.78                                   | 53.15                                 | 73.76                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 52.70                                 | 74.59                                   | 54.30                                 | 72.99                                   | 53.32                                 | 73.97                                   | 53.34                                 | 73.95                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 52.74                                 | 74.60                                   | 53.67                                 | 73.67                                   | 53.97                                 | 73.37                                   | 53.74                                 | 73.60                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 51.88                                 | 74.45                                   | 52.11                                 | 74.22                                   | 52.22                                 | 74.11                                   | 52.44                                 | 73.89                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 52.13                                 | 73.91                                   | 52.00                                 | 74.04                                   | 52.61                                 | 73.43                                   | 52.65                                 | 73.39                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 53.36                                 | 74.09                                   | 53.63                                 | 73.82                                   | 53.68                                 | 73.77                                   | 53.97                                 | 73.48                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 53.34                                 | 74.19                                   | 53.37                                 | 74.16                                   | 53.86                                 | 73.67                                   | 53.68                                 | 73.85                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 51.87                                 | 73.38                                   | 52.85                                 | 72.40                                   | 51.69                                 | 73.56                                   | 52.36                                 | 72.89                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 50.96                                 | 73.90                                   | 53.67                                 | 71.19                                   | 51.39                                 | 73.47                                   | 51.39                                 | 73.47                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 45.47                                 | 73.83                                   | 45.41                                 | 73.89                                   | 46.23                                 | 73.07                                   | 45.99                                 | 73.31                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 45.44                                 | 73.75                                   | 45.52                                 | 73.67                                   | 46.17                                 | 73.02                                   | 45.92                                 | 73.27                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 46.67                                 | 73.77                                   | 46.54                                 | 73.90                                   | 47.49                                 | 72.95                                   | 47.12                                 | 73.32                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 47.26                                 | 73.35                                   | 47.12                                 | 73.49                                   | 47.83                                 | 72.78                                   | 47.47                                 | 73.14                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 49.14                                 | 73.32                                   | 49.30                                 | 73.16                                   | 49.79                                 | 72.67                                   | 49.86                                 | 72.60                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 49.67                                 | 73.01                                   | 49.41                                 | 73.27                                   | 50.18                                 | 72.50                                   | 49.72                                 | 72.96                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 49.13                                 | 73.82                                   | 49.43                                 | 73.52                                   | 49.69                                 | 73.26                                   | 49.60                                 | 73.35                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 49.29                                 | 73.78                                   | 49.42                                 | 73.65                                   | 49.84                                 | 73.23                                   | 49.68                                 | 73.39                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 51.72                                 | 73.68                                   | 52.20                                 | 73.20                                   | 51.93                                 | 73.47                                   | 52.24                                 | 73.16                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 51.31                                 | 73.97                                   | 51.49                                 | 73.79                                   | 51.85                                 | 73.43                                   | 51.80                                 | 73.48                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 50.79                                 | 74.08                                   | 51.05                                 | 73.82                                   | 51.33                                 | 73.54                                   | 51.33                                 | 73.54                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 51.02                                 | 74.00                                   | 51.15                                 | 73.87                                   | 51.54                                 | 73.48                                   | 51.41                                 | 73.61                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 47.02                                 | 73.78                                   | 47.05                                 | 73.75                                   | 48.68                                 | 72.12                                   | NM                                    | NM                                      |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 49.21                                 | 73.34                                   | 49.13                                 | 73.42                                   | 49.79                                 | 72.76                                   | 49.41                                 | 73.14                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 46.13                                 | 73.12                                   | 45.85                                 | 73.40                                   | 46.81                                 | 72.44                                   | 46.31                                 | 72.94                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 46.11                                 | 73.07                                   | 45.81                                 | 73.37                                   | 46.78                                 | 72.40                                   | 46.29                                 | 72.89                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 46.67                                 | 72.40                                   | 46.25                                 | 72.82                                   | 47.04                                 | 72.03                                   | 46.57                                 | 72.50                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 45.50                                 | 72.89                                   | 45.18                                 | 73.21                                   | 46.10                                 | 72.29                                   | 45.61                                 | 72.78                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 45.83                                 | 72.74                                   | 45.50                                 | 73.07                                   | 46.39                                 | 72.18                                   | 45.88                                 | 72.69                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 46.12                                 | 72.30                                   | 45.60                                 | 72.82                                   | 46.44                                 | 71.98                                   | 45.98                                 | 72.44                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 7/1/2016                              |                                         | 9/30/2016                             |                                         | 12/8/2016                             |                                         | 3/30/2017                             |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | 53.94                                 | 72.97                                   | 55.53                                 | 71.38                                   | 55.61                                 | 71.30                                   | 56.30                                 | 70.61                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 54.11                                 | 73.18                                   | 55.71                                 | 71.58                                   | 56.02                                 | 71.27                                   | 56.58                                 | 70.71                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 54.22                                 | 73.12                                   | 55.49                                 | 71.85                                   | 56.11                                 | 71.23                                   | 56.74                                 | 70.60                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 53.49                                 | 72.84                                   | 54.95                                 | 71.38                                   | 55.19                                 | 71.14                                   | 55.79                                 | 70.54                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 53.05                                 | 72.99                                   | 55.30                                 | 70.74                                   | 55.55                                 | 70.49                                   | 56.07                                 | 69.97                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 54.48                                 | 72.97                                   | 56.43                                 | 71.02                                   | 56.62                                 | 70.83                                   | 57.19                                 | 70.26                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 54.88                                 | 72.65                                   | 56.45                                 | 71.08                                   | 56.64                                 | 70.89                                   | 57.14                                 | 70.39                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 52.49                                 | 72.76                                   | 54.40                                 | 70.85                                   | 54.94                                 | 70.31                                   | 55.35                                 | 69.90                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 52.29                                 | 72.57                                   | 54.14                                 | 70.72                                   | 54.23                                 | 70.63                                   | 54.75                                 | 70.11                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 47.15                                 | 72.15                                   | 48.74                                 | 70.56                                   | 48.94                                 | 70.36                                   | 49.56                                 | 69.74                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 47.14                                 | 72.05                                   | 48.73                                 | 70.46                                   | 48.90                                 | 70.29                                   | 49.44                                 | 69.75                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 48.36                                 | 72.08                                   | 49.95                                 | 70.49                                   | 50.13                                 | 70.31                                   | 50.73                                 | 69.71                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 48.79                                 | 71.82                                   | 50.50                                 | 70.11                                   | 50.61                                 | 70.00                                   | 51.03                                 | 69.58                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 50.70                                 | 71.76                                   | 52.29                                 | 70.17                                   | 52.47                                 | 69.99                                   | 52.97                                 | 69.49                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 51.12                                 | 71.56                                   | 52.73                                 | 69.95                                   | 52.86                                 | 69.82                                   | 53.28                                 | 69.40                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 50.54                                 | 72.41                                   | 52.30                                 | 70.65                                   | 52.59                                 | 70.36                                   | 53.14                                 | 69.81                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 50.72                                 | 72.35                                   | 52.72                                 | 70.35                                   | 52.65                                 | 70.42                                   | 53.19                                 | 69.88                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 52.81                                 | 72.59                                   | 54.85                                 | 70.55                                   | 54.72                                 | 70.68                                   | 54.50                                 | 70.90                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 52.78                                 | 72.50                                   | 54.51                                 | 70.77                                   | 55.09                                 | 70.19                                   | 55.23                                 | 70.05                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 52.15                                 | 72.72                                   | 53.84                                 | 71.03                                   | 54.13                                 | 70.74                                   | 54.67                                 | 70.20                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 52.41                                 | 72.61                                   | 54.27                                 | 70.75                                   | 54.47                                 | 70.55                                   | 53.90                                 | 71.12                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | NM                                    | NM                                      | NM                                    | NM                                      | 50.53                                 | 70.27                                   | 50.96                                 | 69.84                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 50.74                                 | 71.81                                   | 52.43                                 | 70.12                                   | 52.59                                 | 69.96                                   | 53.00                                 | 69.55                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 47.80                                 | 71.45                                   | 49.42                                 | 69.83                                   | 49.44                                 | 69.81                                   | 49.89                                 | 69.36                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 47.78                                 | 71.40                                   | 49.40                                 | 69.78                                   | 49.42                                 | 69.76                                   | 49.85                                 | 69.33                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 48.26                                 | 70.81                                   | 49.81                                 | 69.26                                   | 49.75                                 | 69.32                                   | 50.10                                 | 68.97                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 47.14                                 | 71.25                                   | 48.71                                 | 69.68                                   | 48.75                                 | 69.64                                   | 49.17                                 | 69.22                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 47.43                                 | 71.14                                   | 49.02                                 | 69.55                                   | 49.04                                 | 69.53                                   | 49.43                                 | 69.14                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 47.62                                 | 70.80                                   | 49.19                                 | 69.23                                   | 49.16                                 | 69.26                                   | 49.48                                 | 68.94                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 6/21/2017                             |                                         | 9/27/2017                             |                                         | 12/22/2017                            |                                         | 3/15/2018                             |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | 55.67                                 | 71.24                                   | 56.14                                 | 70.77                                   | 55.58                                 | 71.33                                   | 56.08                                 | 70.83                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 55.83                                 | 71.46                                   | 56.30                                 | 70.99                                   | 56.75                                 | 70.54                                   | 56.26                                 | 71.03                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 56.00                                 | 71.34                                   | 56.59                                 | 70.75                                   | 56.82                                 | 70.52                                   | 56.48                                 | 70.86                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 54.84                                 | 71.49                                   | 55.25                                 | 71.08                                   | 55.65                                 | 70.68                                   | 55.22                                 | 71.11                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 55.15                                 | 70.89                                   | 55.68                                 | 70.36                                   | 56.04                                 | 70.00                                   | 55.64                                 | 70.40                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 56.27                                 | 71.18                                   | 56.73                                 | 70.72                                   | 57.10                                 | 70.35                                   | 56.81                                 | 70.64                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 56.35                                 | 71.18                                   | 57.00                                 | 70.53                                   | 57.33                                 | 70.20                                   | 56.95                                 | 70.58                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 54.43                                 | 70.82                                   | 54.73                                 | 70.52                                   | 55.07                                 | 70.18                                   | 54.73                                 | 70.52                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 53.89                                 | 70.97                                   | 54.43                                 | 70.43                                   | 54.82                                 | 70.04                                   | 54.36                                 | 70.50                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 48.54                                 | 70.76                                   | 49.24                                 | 70.06                                   | 43.00                                 | 76.30                                   | 48.87                                 | 70.43                                   |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 48.47                                 | 70.72                                   | 49.18                                 | 70.01                                   | 49.61                                 | 69.58                                   | 48.82                                 | 70.37                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 49.64                                 | 70.80                                   | 50.45                                 | 69.99                                   | NM                                    | NM                                      | 49.97                                 | 70.47                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 50.05                                 | 70.56                                   | 50.88                                 | 69.73                                   | 51.26                                 | 69.35                                   | 50.38                                 | 70.23                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 52.02                                 | 70.44                                   | 52.77                                 | 69.69                                   | 53.23                                 | 69.23                                   | NM                                    | NM                                      |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 52.35                                 | 70.33                                   | 53.20                                 | 69.48                                   | 53.56                                 | 69.12                                   | NM                                    | NM                                      |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 52.12                                 | 70.83                                   | 52.71                                 | 70.24                                   | 53.10                                 | 69.85                                   | 52.49                                 | 70.46                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 52.23                                 | 70.84                                   | 53.05                                 | 70.02                                   | 52.85                                 | 70.22                                   | 52.62                                 | 70.45                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 54.54                                 | 70.86                                   | 55.04                                 | 70.36                                   | 55.38                                 | 70.02                                   | 54.91                                 | 70.49                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 54.31                                 | 70.97                                   | 54.87                                 | 70.41                                   | 55.20                                 | 70.08                                   | 54.72                                 | 70.56                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 53.71                                 | 71.16                                   | 54.36                                 | 70.51                                   | 54.75                                 | 70.12                                   | 54.26                                 | 70.61                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 54.00                                 | 71.02                                   | 54.58                                 | 70.44                                   | 54.99                                 | 70.03                                   | 54.46                                 | 70.56                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 49.95                                 | 70.85                                   | 50.71                                 | 70.09                                   | 51.11                                 | 69.69                                   | 50.29                                 | 70.51                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 52.04                                 | 70.51                                   | 52.83                                 | 69.72                                   | 53.25                                 | 69.30                                   | 52.40                                 | 70.15                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 48.89                                 | 70.36                                   | 49.85                                 | 69.40                                   | 50.24                                 | 69.01                                   | 49.18                                 | 70.07                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 48.86                                 | 70.32                                   | 49.84                                 | 69.34                                   | 50.19                                 | 68.99                                   | 49.19                                 | 69.99                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 49.24                                 | 69.83                                   | 50.23                                 | 68.84                                   | 50.44                                 | 68.63                                   | 49.76                                 | 69.31                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 48.31                                 | 70.08                                   | 49.14                                 | 69.25                                   | 49.55                                 | 68.84                                   | 48.49                                 | 69.90                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 48.63                                 | 69.94                                   | 49.45                                 | 69.12                                   | 49.80                                 | 68.77                                   | 48.80                                 | 69.77                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 48.74                                 | 69.68                                   | 49.61                                 | 68.81                                   | 49.88                                 | 68.54                                   | 49.09                                 | 69.33                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      | NA                                    | NA                                      |

**Table 2**  
**Historical Groundwater Elevations**

| Well ID  | Screen Interval<br>(feet bgs) | Well Diameter<br>(inch) | Well Elevation<br>Used prior to Q2<br>2018 <sup>1</sup><br>(feet AMSL) | Well Elevation<br>Used starting Q2<br>2018 <sup>2</sup><br>(feet AMSL) | 6/27 and 6/28/2018                    |                                         | 10/1/2018                             |                                         |
|----------|-------------------------------|-------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|
|          |                               |                         |                                                                        |                                                                        | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) | Depth to<br>Groundwater<br>(feet bgs) | Groundwater<br>Elevation<br>(feet AMSL) |
| LRF-1    | 50-70                         | 4                       | 126.91                                                                 | 125.65                                                                 | NM                                    | NM                                      | 55.36                                 | 70.29                                   |
| FSMW-1A  | 58-68                         | 2                       | 127.29                                                                 | 126.03                                                                 | 55.74                                 | 70.29                                   | 55.53                                 | 70.50                                   |
| FSMW-1B  | 117-127                       | 2                       | 127.34                                                                 | 125.97                                                                 | 55.96                                 | 70.01                                   | 55.60                                 | 70.37                                   |
| FSMW-2A  | 60-70                         | 4                       | 126.33                                                                 | 124.74                                                                 | 54.78                                 | 69.96                                   | 54.47                                 | 70.27                                   |
| FSMW-2B  | 114-124                       | 2                       | 126.04                                                                 | 125.05                                                                 | 55.13                                 | 69.92                                   | 54.86                                 | 70.19                                   |
| FSMW-3A  | 60-70                         | 2                       | 127.45                                                                 | 126.15                                                                 | 56.20                                 | 69.95                                   | 55.92                                 | 70.23                                   |
| FSMW-3B  | 135-145                       | 2                       | 127.53                                                                 | 126.23                                                                 | 56.45                                 | 69.78                                   | 56.17                                 | 70.06                                   |
| FSMW-4A  | 60-70                         | 2                       | 125.25                                                                 | 123.95                                                                 | 54.31                                 | 69.64                                   | 53.89                                 | 70.06                                   |
| FSMW-4B  | 137-147                       | 2                       | 124.86                                                                 | 123.57                                                                 | 54.02                                 | 69.55                                   | 53.64                                 | 69.93                                   |
| FSMW-5A  | 60-70                         | 2                       | 119.30                                                                 | 118.05                                                                 | 49.78                                 | 68.27                                   | NM                                    | NM                                      |
| FSMW-5B  | 130-140                       | 2                       | 119.19                                                                 | 117.99                                                                 | 49.70                                 | 68.29                                   | 48.36                                 | 69.63                                   |
| FSMW-6A  | 59-69                         | 2                       | 120.44                                                                 | 119.17                                                                 | 50.92                                 | 68.25                                   | 49.60                                 | 69.57                                   |
| FSMW-6B  | 137-147                       | 2                       | 120.61                                                                 | 119.36                                                                 | 51.39                                 | 67.97                                   | 50.22                                 | 69.14                                   |
| FSMW-7A  | 60-70                         | 2                       | 122.46                                                                 | 121.26                                                                 | 53.30                                 | 67.96                                   | 52.02                                 | 69.24                                   |
| FSMW-7B  | 136-146                       | 2                       | 122.68                                                                 | 121.44                                                                 | 53.71                                 | 67.73                                   | 52.49                                 | 68.95                                   |
| FSMW-8A  | 64-74                         | 2                       | 122.95                                                                 | 121.64                                                                 | 52.20                                 | 69.44                                   | 51.89                                 | 69.75                                   |
| FSMW-8B  | 132-142                       | 2                       | 123.07                                                                 | 121.75                                                                 | 52.39                                 | 69.36                                   | 52.01                                 | 69.74                                   |
| FSMW-8C  | 170-180                       | 2                       | NA                                                                     | 121.43                                                                 | 52.43                                 | 69.00                                   | 52.16                                 | 69.27                                   |
| FSMW-8D  | 223-233                       | 2                       | NA                                                                     | 121.65                                                                 | 52.62                                 | 69.03                                   | 52.41                                 | 69.24                                   |
| FSMW-9A  | 60-70                         | 2                       | 125.40                                                                 | 124.10                                                                 | 55.55                                 | 68.55                                   | 54.29                                 | 69.81                                   |
| FSMW-9B  | 137-147                       | 2                       | 125.28                                                                 | 123.91                                                                 | 55.36                                 | 68.55                                   | 54.08                                 | 69.83                                   |
| FSMW-10A | 60-70                         | 2                       | 124.87                                                                 | 123.59                                                                 | 54.87                                 | 68.72                                   | 53.52                                 | 70.07                                   |
| FSMW-10B | 137-147                       | 2                       | 125.02                                                                 | 123.68                                                                 | 55.11                                 | 68.57                                   | 53.76                                 | 69.92                                   |
| FSMW-11  | 139-149                       | 2                       | 120.80                                                                 | 119.34                                                                 | 51.19                                 | 68.15                                   | 49.90                                 | 69.44                                   |
| FSMW-12  | 139-149                       | 2                       | 122.55                                                                 | 121.30                                                                 | 53.34                                 | 67.96                                   | 52.32                                 | 68.98                                   |
| FSMW-13A | 69-79                         | 2                       | 119.25                                                                 | 118.00                                                                 | 49.35                                 | 68.65                                   | 48.96                                 | 69.04                                   |
| FSMW-13B | 119-129                       | 2                       | 119.18                                                                 | 117.94                                                                 | 49.38                                 | 68.56                                   | 49.00                                 | 68.94                                   |
| FSMW-13C | 239-249                       | 2                       | 119.07                                                                 | 117.81                                                                 | 49.62                                 | 68.19                                   | 49.35                                 | 68.46                                   |
| FSMW-14A | 119-129                       | 2                       | 118.39                                                                 | 117.16                                                                 | 49.02                                 | 68.14                                   | 48.32                                 | 68.84                                   |
| FSMW-14B | 159-169                       | 2                       | 118.57                                                                 | 117.36                                                                 | 49.05                                 | 68.31                                   | 48.72                                 | 68.64                                   |
| FSMW-14C | 239-249                       | 2                       | 118.42                                                                 | 117.19                                                                 | 50.13                                 | 67.06                                   | 48.73                                 | 68.46                                   |
| FSMW-19A | 70-80                         | 2                       | NA                                                                     | 120.32                                                                 | 51.52                                 | 68.80                                   | 50.60                                 | 69.72                                   |
| FSMW-19B | 120-130                       | 2                       | NA                                                                     | 120.22                                                                 | 51.43                                 | 68.79                                   | 50.56                                 | 69.66                                   |
| FSMW-19C | 170-180                       | 2                       | NA                                                                     | 120.17                                                                 | 51.71                                 | 68.46                                   | 51.06                                 | 69.11                                   |
| FSMW-19D | 223-233                       | 2                       | NA                                                                     | 120.60                                                                 | 52.15                                 | 68.45                                   | 51.48                                 | 69.12                                   |

**Notes:**

- 1 Historical well elevations obtained from prior reports.
  - 2 All wells were resurveyed in 2018; new well elevations used for June 2018 groundwater elevations.
- bgs below ground surface  
 AMSL above mean sea level  
 NA Well did not exist during gauging activities on that date.  
 NM Water level not measured.



**Table 3**  
**Groundwater Monitoring Results - Third Quarter 2018**

| Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | FSMW-1A<br>09/27/2018<br>58-68 feet bgs<br>(µg/L) |   | FSMW-2A<br>10/01/2018<br>60-70 feet bgs<br>(µg/L) |    | FSMW-2A<br>10/01/2018<br>60-70 feet bgs<br>(µg/L) |    | FSMW-2B<br>09/28/2018<br>114-124 feet bgs<br>(µg/L) |    | FSMW-4A<br>09/28/2018<br>60-70 feet bgs<br>(µg/L) |   | FSMW-4B<br>10/01/2018<br>137-147 feet bgs<br>(µg/L) |    | FSMW-8A<br>09/27/2018<br>64-74 feet bgs<br>(µg/L) |    | FSMW-13A<br>09/26/2018<br>69-79 feet bgs<br>(µg/L) |   | FSMW-14A<br>09/26/2018<br>119-129 feet bgs<br>(µg/L) |    |
|----------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|---|---------------------------------------------------|----|---------------------------------------------------|----|-----------------------------------------------------|----|---------------------------------------------------|---|-----------------------------------------------------|----|---------------------------------------------------|----|----------------------------------------------------|---|------------------------------------------------------|----|
| Analyte                                                        |                                               |                                                   |   |                                                   |    |                                                   |    |                                                     |    |                                                   |   |                                                     |    |                                                   |    |                                                    |   |                                                      |    |
| 1,1,1-Trichloroethane                                          | 5                                             | 0.24                                              | U | 0.48                                              | U  | 0.48                                              | U  | 0.24                                                | U  | 0.24                                              | U | 0.24                                                | U  | 0.24                                              | UJ | 0.24                                               | U | 4.8                                                  | UJ |
| 1,1,2,2-Tetrachloroethane                                      | 5                                             | 0.37                                              | U | 0.73                                              | U  | 0.73                                              | U  | 0.37                                                | U  | 0.37                                              | U | 0.37                                                | U  | 0.37                                              | UJ | 0.37                                               | U | 7.3                                                  | UJ |
| 1,1,2-Trichloroethane                                          | 1                                             | 0.43                                              | U | 0.87                                              | U  | 0.87                                              | U  | 0.43                                                | U  | 0.43                                              | U | 0.43                                                | U  | 0.43                                              | UJ | 0.43                                               | U | 8.7                                                  | UJ |
| 1,1-Dichloroethane                                             | 5                                             | 0.26                                              | U | 0.53                                              | U  | 0.53                                              | U  | 0.26                                                | U  | 0.26                                              | U | 0.26                                                | U  | 0.26                                              | UJ | 0.26                                               | U | 5.3                                                  | UJ |
| 1,1-Dichloroethene                                             | 5                                             | 0.12                                              | U | 0.23                                              | U  | 0.23                                              | U  | 0.12                                                | U  | 0.12                                              | U | 0.12                                                | U  | 0.12                                              | UJ | 0.12                                               | U | 2.3                                                  | UJ |
| 1,2-Dichloroethane                                             | 0.6                                           | 0.43                                              | U | 0.86                                              | U  | 0.86                                              | UJ | 0.43                                                | U  | 0.43                                              | U | 0.43                                                | U  | 0.43                                              | UJ | 0.43                                               | U | 8.6                                                  | U  |
| 1,2-Dichloropropane                                            | 1                                             | 0.35                                              | U | 0.71                                              | U  | 0.71                                              | U  | 0.35                                                | U  | 0.35                                              | U | 0.35                                                | U  | 0.35                                              | UJ | 1.2                                                |   | 7.1                                                  | UJ |
| 2-Butanone (MEK)                                               | 50                                            | 1.9                                               | U | 3.7                                               | U  | 3.7                                               | U  | 1.9                                                 | U  | 1.9                                               | U | 1.9                                                 | U  | 1.9                                               | UJ | 1.9                                                | U | 37                                                   | UJ |
| 2-Hexanone                                                     | 50                                            | 2.9                                               | U | 5.8                                               | U  | 5.8                                               | U  | 2.9                                                 | U  | 2.9                                               | U | 2.9                                                 | U  | 2.9                                               | UJ | 2.9                                                | U | 58                                                   | UJ |
| 4-Methyl-2-Pentanone (MIBK)                                    | NC                                            | 2.7                                               | U | 5.5                                               | U  | 5.5                                               | U  | 2.7                                                 | U  | 2.7                                               | U | 2.7                                                 | U  | 2.7                                               | UJ | 2.7                                                | U | 55                                                   | UJ |
| Acetone                                                        | 50                                            | 5                                                 | U | 10                                                | U  | 10                                                | U  | 5                                                   | U  | 5                                                 | U | 5                                                   | U  | 5                                                 | UJ | 5                                                  | U | 100                                                  | UJ |
| Benzene                                                        | 1                                             | 0.43                                              | U | 0.86                                              | U  | 0.86                                              | U  | 0.43                                                | U  | 0.43                                              | U | 0.43                                                | U  | 0.43                                              | UJ | 0.43                                               | U | 8.6                                                  | UJ |
| Bromodichloromethane                                           | 50                                            | 0.34                                              | U | 0.69                                              | U  | 0.69                                              | U  | 0.34                                                | U  | 0.34                                              | U | 0.34                                                | U  | 0.34                                              | UJ | 0.34                                               | U | 6.9                                                  | UJ |
| Bromoform                                                      | 50                                            | 0.54                                              | U | 1.1                                               | U  | 1.1                                               | U  | 0.54                                                | U  | 0.54                                              | U | 0.54                                                | U  | 0.54                                              | UJ | 0.54                                               | U | 11                                                   | UJ |
| Bromomethane                                                   | 5                                             | 1                                                 | U | 2                                                 | U  | 2                                                 | U  | 1                                                   | U  | 1                                                 | U | 1                                                   | U  | 1                                                 | UJ | 1                                                  | U | 20                                                   | UJ |
| Carbon disulfide                                               | 60                                            | 0.16                                              | U | 0.31                                              | U  | 0.31                                              | U  | 0.16                                                | U  | 0.16                                              | U | 0.16                                                | U  | 0.16                                              | UJ | 0.16                                               | U | 3.1                                                  | UJ |
| Carbon tetrachloride                                           | 5                                             | 0.21                                              | U | 0.42                                              | U  | 0.42                                              | U  | 0.21                                                | U  | 0.21                                              | U | 0.21                                                | U  | 0.21                                              | UJ | 0.21                                               | U | 4.2                                                  | UJ |
| Chlorobenzene                                                  | 5                                             | 0.38                                              | U | 0.75                                              | U  | 0.75                                              | U  | 0.38                                                | U  | 0.38                                              | U | 0.38                                                | U  | 0.38                                              | UJ | 0.38                                               | U | 7.5                                                  | UJ |
| Chlorobromomethane                                             | 5                                             | 0.41                                              | U | 0.82                                              | U  | 0.82                                              | U  | 0.41                                                | UJ | 0.41                                              | U | 0.41                                                | U  | 0.41                                              | UJ | 0.41                                               | U | 8.2                                                  | UJ |
| Chloroethane                                                   | 5                                             | 0.32                                              | U | 0.64                                              | U  | 0.64                                              | U  | 0.32                                                | U  | 0.32                                              | U | 0.32                                                | UJ | 0.32                                              | UJ | 0.32                                               | U | 6.4                                                  | UJ |
| Chloroform                                                     | 7                                             | 0.33                                              | U | 0.65                                              | U  | 0.65                                              | U  | 0.33                                                | U  | 0.33                                              | U | 0.33                                                | U  | 0.33                                              | UJ | 0.33                                               | U | 6.5                                                  | UJ |
| Chloromethane                                                  | 5                                             | 0.14                                              | U | 0.29                                              | UJ | 0.29                                              | UJ | 0.14                                                | UJ | 0.14                                              | U | 0.14                                                | UJ | 0.14                                              | UJ | 0.14                                               | U | 2.9                                                  | UJ |
| cis-1,2-Dichloroethene                                         | 5                                             | 36                                                |   | 28                                                |    | 27                                                |    | 0.22                                                | U  | 0.4                                               | J | 0.22                                                | U  | 0.92                                              | J- | 6.5                                                |   | 4.4                                                  | UJ |
| cis-1,3-Dichloropropene                                        | 0.4                                           | 0.46                                              | U | 0.91                                              | U  | 0.91                                              | U  | 0.46                                                | U  | 0.46                                              | U | 0.46                                                | U  | 0.46                                              | UJ | 0.46                                               | U | 9.1                                                  | UJ |
| Ethylbenzene                                                   | 5                                             | 0.3                                               | U | 0.6                                               | U  | 0.6                                               | U  | 0.3                                                 | U  | 0.3                                               | U | 0.3                                                 | U  | 0.3                                               | UJ | 0.3                                                | U | 6                                                    | UJ |
| Methylene chloride                                             | 5                                             | 0.32                                              | U | 0.63                                              | U  | 0.63                                              | U  | 0.32                                                | U  | 0.32                                              | U | 0.32                                                | U  | 0.32                                              | UJ | 0.32                                               | U | 6.3                                                  | UJ |
| Styrene                                                        | 5                                             | 0.42                                              | U | 0.83                                              | U  | 0.83                                              | U  | 0.42                                                | U  | 0.42                                              | U | 0.42                                                | U  | 0.42                                              | UJ | 0.42                                               | U | 8.3                                                  | UJ |
| Tetrachloroethene                                              | 5                                             | 140                                               |   | 350                                               |    | 340                                               |    | 0.62                                                | J+ | 51                                                |   | 3.5                                                 |    | 15                                                | J- | 190                                                |   | 3,000                                                | J- |
| Toluene                                                        | 5                                             | 0.38                                              | U | 0.76                                              | U  | 0.76                                              | U  | 0.38                                                | U  | 0.38                                              | U | 0.38                                                | U  | 0.38                                              | UJ | 0.38                                               | U | 7.6                                                  | UJ |
| trans-1,2-Dichloroethene                                       | 5                                             | 0.28                                              | J | 0.47                                              | U  | 0.47                                              | U  | 0.24                                                | U  | 0.24                                              | U | 0.24                                                | U  | 0.24                                              | UJ | 0.24                                               | U | 4.7                                                  | UJ |
| trans-1,3-Dichloropropene                                      | 0.4                                           | 0.49                                              | U | 0.97                                              | U  | 0.97                                              | U  | 0.49                                                | U  | 0.49                                              | U | 0.49                                                | U  | 0.49                                              | UJ | 0.49                                               | U | 9.7                                                  | UJ |
| Trichloroethene                                                | 5                                             | 24                                                |   | 19                                                |    | 19                                                |    | 0.31                                                | U  | 0.49                                              | J | 1.8                                                 |    | 0.66                                              | J- | 5.6                                                |   | 42                                                   | J- |
| Vinyl chloride                                                 | 2                                             | 0.17                                              | U | 0.34                                              | U  | 0.34                                              | U  | 0.17                                                | U  | 0.17                                              | U | 0.17                                                | U  | 0.17                                              | UJ | 0.17                                               | U | 3.4                                                  | UJ |
| Total Xylenes                                                  | 5                                             | 0.65                                              | U | 1.3                                               | U  | 1.3                                               | U  | 0.65                                                | U  | 0.65                                              | U | 0.65                                                | U  | 0.65                                              | UJ | 0.65                                               | U | 13                                                   | UJ |

**Table 3**  
**Groundwater Monitoring Results - Third Quarter 2018**

| Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | FSMW-14B<br>09/26/2018<br>159-169 feet bgs<br>(µg/L) |           |
|----------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------|-----------|
| Analyte                                                        |                                               |                                                      |           |
| 1,1,1-Trichloroethane                                          | 5                                             | 1.2                                                  | UJ        |
| 1,1,2,2-Tetrachloroethane                                      | 5                                             | 1.8                                                  | UJ        |
| 1,1,2-Trichloroethane                                          | 1                                             | 2.2                                                  | UJ        |
| 1,1-Dichloroethane                                             | 5                                             | 1.3                                                  | UJ        |
| 1,1-Dichloroethene                                             | 5                                             | 0.59                                                 | UJ        |
| 1,2-Dichloroethane                                             | 0.6                                           | 2.2                                                  | UJ        |
| <b>1,2-Dichloropropane</b>                                     | <b>1</b>                                      | 1.8                                                  | UJ        |
| 2-Butanone (MEK)                                               | 50                                            | 9.3                                                  | UJ        |
| 2-Hexanone                                                     | 50                                            | 15                                                   | UJ        |
| 4-Methyl-2-Pentanone (MIBK)                                    | NC                                            | 14                                                   | UJ        |
| Acetone                                                        | 50                                            | 25                                                   | UJ        |
| Benzene                                                        | 1                                             | 2.1                                                  | UJ        |
| Bromodichloromethane                                           | 50                                            | 1.7                                                  | UJ        |
| Bromoform                                                      | 50                                            | 2.7                                                  | UJ        |
| Bromomethane                                                   | 5                                             | 5                                                    | UJ        |
| Carbon disulfide                                               | 60                                            | 0.78                                                 | UJ        |
| Carbon tetrachloride                                           | 5                                             | 1                                                    | UJ        |
| Chlorobenzene                                                  | 5                                             | 1.9                                                  | UJ        |
| Chlorobromomethane                                             | 5                                             | 2.1                                                  | UJ        |
| Chloroethane                                                   | 5                                             | 1.6                                                  | UJ        |
| Chloroform                                                     | 7                                             | 1.6                                                  | UJ        |
| Chloromethane                                                  | 5                                             | 0.72                                                 | UJ        |
| <b>cis-1,2-Dichloroethene</b>                                  | <b>5</b>                                      | <b>6.5</b>                                           | <b>J-</b> |
| cis-1,3-Dichloropropene                                        | 0.4                                           | 2.3                                                  | UJ        |
| Ethylbenzene                                                   | 5                                             | 1.5                                                  | UJ        |
| Methylene chloride                                             | 5                                             | 1.6                                                  | UJ        |
| Styrene                                                        | 5                                             | 2.1                                                  | UJ        |
| <b>Tetrachloroethene</b>                                       | <b>5</b>                                      | <b>1,100</b>                                         | <b>J-</b> |
| Toluene                                                        | 5                                             | 1.9                                                  | UJ        |
| trans-1,2-Dichloroethene                                       | 5                                             | 1.2                                                  | UJ        |
| trans-1,3-Dichloropropene                                      | 0.4                                           | 2.4                                                  | UJ        |
| <b>Trichloroethene</b>                                         | <b>5</b>                                      | <b>33</b>                                            | <b>J-</b> |
| Vinyl chloride                                                 | 2                                             | 0.86                                                 | UJ        |
| Total Xylenes                                                  | 5                                             | 3.3                                                  | UJ        |

**Notes:**

(a) New York State Ambient Water Quality Standards and Guidance Values, June 2004

µg/L micrograms per liter

bgs below ground surface

**Bold** Detected Value

**Bold and highlight** Detected value exceeds criteria

U Undetected

J Estimated

J- Estimated and biased low

J+ Estimated and biased high

UJ Undetected and estimated; missed hold time caused samples (FSMW-8A, FSMW-14A, and FSMW-14B) to be flagged as estimated during validation

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2018           |   | 2016           |    | 2015           |   | 2014           |    | 2013           |    |                   |    | 2012           |    | 2010           |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|---|----------------|----|----------------|---|----------------|----|----------------|----|-------------------|----|----------------|----|----------------|----|
|                                                                                |                                               | LRF-1          |   | LRF-1          |    | LRF-1          |   | LRF-1          |    | LRF-1          |    | LRF-1 - Duplicate |    | LRF-1          |    | LRF-1          |    |
|                                                                                |                                               | Mar-18         |   | Dec-16         |    | Oct-15         |   | Oct-14         |    | Oct-13         |    | Oct-13            |    | Nov-12         |    | Sep-10         |    |
|                                                                                |                                               | 45-65 feet bgs |   | 45-65 feet bgs |    | 45-65 feet bgs |   | 45-65 feet bgs |    | 45-65 feet bgs |    | 45-65 feet bgs    |    | 45-65 feet bgs |    | 45-65 feet bgs |    |
|                                                                                |                                               | (µg/L)         |   | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |    | (µg/L)            |    | (µg/L)         |    | (µg/L)         |    |
| Analyte                                                                        |                                               |                |   |                |    |                |   |                |    |                |    |                   |    |                |    |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 1.0            | U | 1.0            | U  | 11             | U | 2.1            | U  | 2.1            | U  | 2.1               | U  | 2.1            | U  | 0.21           | J  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.0            | U | 1.0            | UJ | 7.5            | U | 1.5            | U  | 1.5            | U  | 1.5               | U  | 1.5            | U  | 0.10           | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.0            | U | 1.0            | U  | 9.5            | U | 1.9            | U  | 1.9            | U  | 1.9               | U  | 1.9            | U  | 0.10           | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.0            | U | 1.0            | U  | 8.5            | U | 1.7            | U  | 1.7            | U  | 1.7               | U  | 1.7            | U  | 0.10           | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 1.0            | U | 1.0            | U  | 13             | U | 2.5            | U  | 2.5            | U  | 2.5               | U  | 2.5            | UJ | 0.10           | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 1.0            | U | 1.0            | U  | 4.2            | U | 0.83           | U  | 0.83           | U  | 0.83              | U  | 0.83           | U  | 0.10           | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.0            | U | 1.0            | U  | 8.5            | U | 1.7            | U  | 1.7            | U  | 1.7               | U  | 1.7            | U  | 0.10           | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.0            | U | 1.0            | UJ | 7.5            | U | 1.5            | U  | 1.5            | U  | 1.5               | U  | 1.5            | U  | 0.10           | U  |
| 2-Hexanone                                                                     | 50                                            | 1.0            | U | 1.0            | U  | 9.0            | U | 1.8            | U  | 1.8            | U  | 1.8               | U  | 1.8            | U  | 0.10           | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.0            | U | 1.0            | U  | 8.5            | U | 1.7            | U  | 1.7            | U  | 1.7               | U  | 1.7            | U  | 0.10           | U  |
| Acetone                                                                        | 50                                            | 12             | U | 1.0            | UJ | 9.5            | U | 1.9            | U  | 1.9            | U  | 1.9               | U  | 1.9            | U  | 1.4            | J  |
| Benzene                                                                        | 1                                             | 1.0            | U | 1.0            | U  | 8.0            | U | 1.6            | U  | 1.6            | U  | 1.6               | U  | 1.6            | U  | 0.10           | U  |
| Bromodichloromethane                                                           | 50                                            | 1.0            | U | 1.0            | U  | 7.5            | U | 1.5            | U  | 1.5            | U  | 1.5               | U  | 1.5            | U  | 0.10           | U  |
| Bromoform                                                                      | 50                                            | 1.0            | U | 1.0            | U  | 25             | U | 5.0            | UJ | 5.0            | U  | 5.0               | U  | 5.0            | UJ | 0.10           | U  |
| Bromomethane                                                                   | 5                                             | 1.0            | U | 1.0            | U  | 22             | U | 4.3            | U  | 4.3            | UJ | 4.3               | UJ | 4.3            | UJ | 0.10           | U  |
| Carbon disulfide                                                               | 60                                            | 1.0            | U | 1.0            | U  | 11             | U | 2.1            | U  | 2.1            | U  | 2.1               | U  | 2.1            | U  | 0.10           | U  |
| Carbon tetrachloride                                                           | 5                                             | 1.0            | U | 1.0            | U  | 10             | U | 2.0            | U  | 2.0            | U  | 2.0               | U  | 2.0            | U  | 0.10           | U  |
| Chlorobenzene                                                                  | 5                                             | 1.0            | U | 1.0            | U  | 8.0            | U | 1.6            | U  | 1.6            | U  | 1.6               | U  | 1.6            | U  | 0.10           | U  |
| Chlorobromomethane                                                             | 5                                             | 1.0            | U | 1.0            | U  | 8.5            | U | 1.7            | U  | 1.7            | U  | 1.7               | U  | 1.7            | U  | 0.10           | U  |
| Chloroethane                                                                   | 5                                             | 1.0            | U | 1.0            | U  | 13             | U | 2.5            | U  | 2.5            | U  | 2.5               | U  | 2.5            | U  | 0.10           | U  |
| Chloroform                                                                     | 7                                             | 1.0            | U | 1.0            | U  | 9.5            | U | 1.9            | U  | 1.9            | U  | 1.9               | U  | 1.9            | U  | 0.10           | U  |
| Chloromethane                                                                  | 5                                             | 1.0            | U | 1.0            | UJ | 12             | U | 2.3            | U  | 2.3            | U  | 2.3               | U  | 2.3            | U  | 0.10           | U* |
| cis-1,2-Dichloroethene                                                         | 5                                             | 120            |   | 67             | J  | 36             | J | 30             |    | 1.8            | U  | 1.8               | U  | 1.8            | U  | 0.17           | J  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.0            | U | 1.0            | U  | 7.0            | U | 1.4            | U  | 1.4            | U  | 1.4               | U  | 1.4            | U  | 0.10           | U  |
| Ethylbenzene                                                                   | 5                                             | 1.0            | U | 1.0            | U  | 8.0            | U | 1.6            | U  | 1.6            | U  | 1.6               | U  | 1.6            | U  | 0.10           | U  |
| Methylene chloride                                                             | 5                                             | 4.5            | U | 1.0            | U  | 6.5            | U | 1.3            | U  | 1.3            | U  | 1.3               | U  | 1.3            | U  | 0.22           | JB |
| Styrene                                                                        | 5                                             | 1.0            | U | 1.0            | U  | 8.5            | U | 1.7            | U  | 1.7            | U  | 1.7               | U  | 1.7            | U  | 0.10           | U  |
| Tetrachloroethene                                                              | 5                                             | 930            |   | 800            |    | 320            |   | 600            | D  | 4.9            | J  | 5.1               | J  | 7.7            | J  | 33             |    |
| Toluene                                                                        | 5                                             | 1.0            | U | 1.0            | U  | 8.0            | U | 1.6            | U  | 1.6            | U  | 1.6               | U  | 2.0            | J  | 0.10           | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.0            | U | 1.0            | U  | 9.5            | U | 1.9            | U  | 1.9            | U  | 1.9               | U  | 1.9            | U  | 0.10           | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.0            | U | 1.0            | U  | 8.0            | U | 1.6            | U  | 1.6            | U  | 1.6               | U  | 1.6            | U  | 0.10           | U  |
| Trichloroethene                                                                | 5                                             | 100            |   | 87             | J  | 48             | J | 130            |    | 1.9            | U  | 1.9               | U  | 1.9            | U  | 2.8            | J  |
| Vinyl chloride                                                                 | 2                                             | 1.0            | U | 1.0            | U  | 12             | U | 2.3            | U  | 2.3            | U  | 2.3               | U  | 2.3            | U  | 0.10           | U* |
| m+p Xylene                                                                     | 5                                             | NA             |   | NA             |    | NA             |   | NA             |    | NA             |    | NA                |    | NA             |    | NA             |    |
| o-Xylene                                                                       | 5                                             | NA             |   | NA             |    | NA             |   | NA             |    | NA             |    | NA                |    | NA             |    | NA             |    |
| Total Xylenes                                                                  | 5                                             | 1.0            | U | 1.0            | U  | 4.1            | U | 0.82           | U  | 0.82           | U  | 0.82              | U  | 0.10           | U  | 0.10           | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2009           |    | 2008           |   | 2007           |   | 2006           |   | 2018           |   |                |   | 2017           |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|---|----------------|---|----------------|---|----------------|---|----------------|---|----------------|---|
|                                                                                |                                               | LRF-1          |    | LRF-1          |   | LRF-1          |   | LRF-1          |   | FSMW-1A        |   | FSMW-1A        |   | FSMW-1A        |   |
|                                                                                |                                               | Sep-09         |    | Sep-08         |   | Aug-07         |   | Aug-06         |   | Sep-18         |   | Jun-18         |   | Mar-18         |   |
|                                                                                |                                               | 45-65 feet bgs |    | 45-65 feet bgs |   | 45-65 feet bgs |   | 45-65 feet bgs |   | 58-68 feet bgs |   | 58-68 feet bgs |   | 58-68 feet bgs |   |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   |
| Analyte                                                                        |                                               |                |    |                |   |                |   |                |   |                |   |                |   |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10           | U  | 0.10           | U | 1.6            | J | 100            | U | 0.24           | U | 0.24           | U | 0.20           | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.37           | U | 0.37           | U | 0.20           | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.43           | U | 0.43           | U | 0.20           | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.26           | U | 0.26           | U | 0.20           | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.12           | U | 0.12           | U | 0.20           | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.43           | U | 0.43           | U | 0.20           | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.35           | U | 0.35           | U | 0.20           | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U* | 0.10           | U | 0.10           | U | 100            | U | 1.9            | U | 1.9            | U | 0.20           | U |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U* | 0.10           | U | 0.10           | U | 100            | U | 2.9            | U | 2.9            | U | 0.20           | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 2.7            | U | 2.7            | U | 0.20           | U |
| Acetone                                                                        | 50                                            | 0.10           | U* | 0.10           | U | 0.10           | U | 100            | U | 5              | U | 5              | U | 0.20           | U |
| Benzene                                                                        | 1                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.43           | U | 0.43           | U | 0.20           | U |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.34           | U | 0.34           | U | 0.20           | U |
| Bromoform                                                                      | 50                                            | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.54           | U | 0.54           | U | 0.20           | U |
| Bromomethane                                                                   | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 1              | U | 1              | U | 0.20           | U |
| Carbon disulfide                                                               | 60                                            | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.16           | U | 0.16           | U | 0.20           | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.21           | U | 0.21           | U | 0.20           | U |
| Chlorobenzene                                                                  | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.38           | U | 0.38           | U | 0.20           | U |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.41           | U | 0.41           | U | 0.20           | U |
| Chloroethane                                                                   | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.32           | U | 0.32           | U | 0.20           | U |
| Chloroform                                                                     | 7                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.33           | U | 0.33           | U | 0.20           | U |
| Chloromethane                                                                  | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.14           | U | 0.14           | U | 0.20           | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.16           | J  | 0.10           | U | 0.10           | U | 100            | U | 36             |   | 69             |   | 150            |   |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.46           | U | 0.46           | U | 0.20           | U |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.3            | U | 0.3            | U | 0.20           | U |
| Methylene chloride                                                             | 5                                             | 0.40           | JB | 0.10           | U | 0.10           | U | 100            | U | 0.32           | U | 0.32           | U | 0.20           | U |
| Styrene                                                                        | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.42           | U | 0.42           | U | 0.20           | U |
| Tetrachloroethene                                                              | 5                                             | 210            |    | 220            |   | 710            | J | 890            |   | 140            |   | 180            |   | 310            |   |
| Toluene                                                                        | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.38           | U | 0.38           | U | 0.20           | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.28           | J | 0.34           | J | 0.80           | J |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.49           | U | 0.49           | U | 0.20           | U |
| Trichloroethene                                                                | 5                                             | 24             |    | 37             |   | 73             |   | 33             | J | 24             |   | 44             |   | 66             |   |
| Vinyl chloride                                                                 | 2                                             | 0.10           | U  | 0.10           | U | 0.10           | U | 100            | U | 0.17           | U | 0.17           | U | 0.20           | U |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |   | NA             |   | NA             |   | NA             |   | 0.3            | U | NA             |   |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |   | NA             |   | NA             |   | NA             |   | 0.36           | U | NA             |   |
| Total Xylenes                                                                  | 5                                             | 0.10           | U  | 0.10           | U | 100            | U | 82             | U | 0.65           | U | NA             |   | 0.20           | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2017           |          |                     |          |                |          |                |          |                     |          | 2016           |          |                |           |                |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----------|---------------------|----------|----------------|----------|----------------|----------|---------------------|----------|----------------|----------|----------------|-----------|----------------|----------|
|                                                                                |                                               | FSMW-1A        |          | FSMW-1A - Duplicate |          | FSMW-1A        |          | FSMW-1A        |          | FSMW-1A - Duplicate |          | FSMW-1A        |          | FSMW-1A        |           | FSMW-1A        |          |
|                                                                                |                                               | Sep-17         |          | Sep-17              |          | Jun-17         |          | Mar-17         |          | Mar-17              |          | Dec-16         |          | Sep-16         |           | Jul-16         |          |
|                                                                                |                                               | 58-68 feet bgs |          | 58-68 feet bgs      |          | 58-68 feet bgs |          | 58-68 feet bgs |          | 58-68 feet bgs      |          | 58-68 feet bgs |          | 58-68 feet bgs |           | 58-68 feet bgs |          |
|                                                                                |                                               | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          | (µg/L)         |           | (µg/L)         |          |
| Analyte                                                                        |                                               |                |          |                     |          |                |          |                |          |                     |          |                |          |                |           |                |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| 2-Hexanone                                                                     | 50                                            | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Acetone                                                                        | 50                                            | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Benzene                                                                        | 1                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Bromodichloromethane                                                           | 50                                            | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Bromoform                                                                      | 50                                            | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Bromomethane                                                                   | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Carbon disulfide                                                               | 60                                            | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Carbon tetrachloride                                                           | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Chlorobenzene                                                                  | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Chlorobromomethane                                                             | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Chloroethane                                                                   | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Chloroform                                                                     | 7                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Chloromethane                                                                  | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>63</b>      |          | <b>62</b>           |          | <b>110</b>     | <b>J</b> | <b>48</b>      |          | <b>48</b>           |          | <b>13</b>      |          | <b>15</b>      | <b>J</b>  | <b>17</b>      | <b>J</b> |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Ethylbenzene                                                                   | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Methylene chloride                                                             | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Styrene                                                                        | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Tetrachloroethene                                                              | 5                                             | <b>180</b>     |          | <b>170</b>          | <b>D</b> | <b>400</b>     |          | <b>300</b>     | <b>D</b> | <b>300</b>          | <b>D</b> | <b>180</b>     |          | <b>170</b>     | <b>ED</b> | <b>240</b>     |          |
| Toluene                                                                        | 5                                             | <b>0.71</b>    | <b>J</b> | <b>0.67</b>         | <b>J</b> | 0.5            | U        | <b>3.7</b>     | <b>J</b> | 0.10                | U        | <b>3.7</b>     | <b>J</b> | 0.10           | U         | 0.20           | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | <b>0.49</b>    | <b>J</b> | 0.20                | U        | <b>1.1</b>     | <b>J</b> | <b>0.46</b>    | <b>J</b> | <b>0.45</b>         | <b>J</b> | 0.10           | U        | <b>0.32</b>    | <b>J</b>  | 0.20           | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| Trichloroethene                                                                | 5                                             | <b>32</b>      |          | <b>32</b>           |          | <b>57</b>      |          | <b>60</b>      |          | <b>61</b>           |          | <b>32</b>      |          | <b>33</b>      |           | <b>43</b>      |          |
| Vinyl chloride                                                                 | 2                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |
| m+p Xylene                                                                     | 5                                             | NA             |          | NA                  |          | NA             |          | NA             |          | NA                  |          | NA             |          | NA             |           | NA             |          |
| o-Xylene                                                                       | 5                                             | NA             |          | NA                  |          | NA             |          | NA             |          | NA                  |          | NA             |          | NA             |           | NA             |          |
| Total Xylenes                                                                  | 5                                             | 0.20           | U        | 0.20                | U        | 0.50           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U         | 0.20           | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2016                |    |                |    | 2015           |    |                |   |                |    |                |    | 2014           |    |                |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|----|----------------|----|----------------|----|----------------|---|----------------|----|----------------|----|----------------|----|----------------|----|
|                                                                                |                                               | FSMW-1A - Duplicate |    | FSMW-1A        |    | FSMW-1A        |    | FSMW-1A        |   | FSMW-1A        |    | FSMW-1A        |    | FSMW-1A        |    | FSMW-1A        |    |
|                                                                                |                                               | Jul-16              |    | Apr-16         |    | Dec-15         |    | Sep-15         |   | Jul-15         |    | Mar-15         |    | Dec-14         |    | Oct-14         |    |
|                                                                                |                                               | 58-68 feet bgs      |    | 58-68 feet bgs |    | 58-68 feet bgs |    | 58-68 feet bgs |   | 58-68 feet bgs |    | 58-68 feet bgs |    | 58-68 feet bgs |    | 58-68 feet bgs |    |
|                                                                                |                                               | (µg/L)              |    | (µg/L)         |    | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |    | (µg/L)         |    | (µg/L)         |    |
| Analyte                                                                        |                                               |                     |    |                |    |                |    |                |   |                |    |                |    |                |    |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 4.2            | U | 11             | U  | 1.0            | U  | 4.2            | U  | 2.1            | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.0            | U | 7.5            | U  | 1.0            | U  | 3.0            | U  | 1.5            | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.8            | U | 9.5            | U  | 1.0            | U  | 3.8            | U  | 1.9            | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.4            | U | 8.5            | UJ | 1.0            | UJ | 3.4            | U  | 1.7            | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 5.0            | U | 13             | U  | 1.0            | U  | 5.0            | U  | 2.5            | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.20                | U  | 0.10           | U  | 0.10           | U  | 1.7            | U | 4.2            | UJ | 1.0            | UJ | 1.7            | U  | 0.83           | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.4            | U | 8.5            | U  | 1.0            | U  | 3.4            | U  | 1.7            | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.0            | U | 7.5            | U  | 1.0            | U  | 3.0            | UJ | 1.5            | U  |
| 2-Hexanone                                                                     | 50                                            | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.6            | U | 9.0            | U  | 1.0            | U  | 3.6            | UJ | 1.8            | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.4            | U | 8.5            | U  | 1.0            | U  | 3.4            | U  | 1.7            | U  |
| Acetone                                                                        | 50                                            | 0.20                | UJ | 0.10           | U  | 0.10           | UJ | 3.8            | U | 9.5            | U  | 1.0            | U  | 3.8            | UJ | 1.9            | U  |
| Benzene                                                                        | 1                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.2            | U | 8.0            | U  | 1.0            | U  | 3.2            | U  | 1.6            | U  |
| Bromodichloromethane                                                           | 50                                            | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.0            | U | 7.5            | U  | 1.0            | U  | 3.0            | U  | 1.5            | U  |
| Bromoform                                                                      | 50                                            | 0.20                | U  | 0.10           | U  | 0.10           | U  | 10             | U | 25             | U  | 1.0            | U  | 10             | U  | 5.0            | UJ |
| Bromomethane                                                                   | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 8.6            | U | 22             | U  | 1.0            | U  | 8.6            | U  | 4.3            | U  |
| Carbon disulfide                                                               | 60                                            | 0.20                | U  | 0.10           | U  | 0.10           | U  | 4.2            | U | 11             | U  | 1.0            | U  | 4.2            | U  | 2.1            | U  |
| Carbon tetrachloride                                                           | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 4.0            | U | 10             | U  | 1.0            | U  | 4.0            | U  | 2.0            | U  |
| Chlorobenzene                                                                  | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.2            | U | 8.0            | U  | 1.0            | U  | 3.2            | U  | 1.6            | U  |
| Chlorobromomethane                                                             | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.4            | U | 8.5            | U  | 1.0            | U  | 3.4            | U  | 1.7            | U  |
| Chloroethane                                                                   | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 5.0            | U | 13             | U  | 1.0            | U  | 5.0            | U  | 2.5            | U  |
| Chloroform                                                                     | 7                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.8            | U | 9.5            | U  | 1.0            | U  | 3.8            | U  | 1.9            | U  |
| Chloromethane                                                                  | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 4.6            | U | 12             | U  | 1.0            | U  | 4.6            | U  | 2.3            | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 17                  | J  | 4.8            | J  | 11             |    | 7.9            | J | 9.0            | J  | 1.8            | J  | 3.6            | U  | 3.3            | J  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.20                | U  | 0.10           | U  | 0.10           | U  | 2.8            | U | 7.0            | U  | 1.0            | U  | 2.8            | U  | 1.4            | U  |
| Ethylbenzene                                                                   | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.2            | U | 8.0            | U  | 1.0            | U  | 3.2            | U  | 1.6            | U  |
| Methylene chloride                                                             | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | UJ | 2.6            | U | 6.5            | U  | 1.0            | U  | 2.6            | U  | 1.3            | U  |
| Styrene                                                                        | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.4            | U | 8.5            | U  | 1.0            | U  | 3.4            | U  | 1.7            | U  |
| Tetrachloroethene                                                              | 5                                             | 250                 |    | 140            |    | 170            | D  | 220            |   | 330            |    | 990            |    | 150            |    | 210            | J  |
| Toluene                                                                        | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.2            | U | 8.0            | U  | 1.0            | U  | 3.2            | U  | 1.6            | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.20                | U  | 0.10           | UJ | 0.17           | J  | 3.8            | U | 9.5            | U  | 1.0            | U  | 3.8            | U  | 1.9            | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.20                | U  | 0.10           | U  | 0.10           | U  | 3.2            | U | 8.0            | U  | 1.0            | U  | 3.2            | U  | 1.6            | U  |
| Trichloroethene                                                                | 5                                             | 41                  |    | 17             |    | 25             |    | 23             |   | 19             | J  | 65             |    | 11             | J  | 38             |    |
| Vinyl chloride                                                                 | 2                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 4.6            | U | 12             | U  | 1.0            | U  | 4.6            | U  | 2.3            | U  |
| m+p Xylene                                                                     | 5                                             | NA                  |    | NA             |    | NA             |    | NA             |   | NA             |    | NA             |    | NA             |    | NA             |    |
| o-Xylene                                                                       | 5                                             | NA                  |    | NA             |    | NA             |    | NA             |   | NA             |    | NA             |    | NA             |    | NA             |    |
| Total Xylenes                                                                  | 5                                             | 0.20                | U  | 0.10           | U  | 0.10           | U  | 1.6            | U | 4.1            | U  | 1.0            | U  | 1.6            | U  | 0.82           | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2014           |   |                |   | 2013           |    |                |   | 2012           |    |                |    |                     |    |                |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|---|----------------|---|----------------|----|----------------|---|----------------|----|----------------|----|---------------------|----|----------------|----|
|                                                                                |                                               | FSMW-1A        |   | FSMW-1A        |   | FSMW-1A        |    | FSMW-1A        |   | FSMW-1A        |    | FSMW-1A        |    | FSMW-1A - Duplicate |    | FSMW-1A        |    |
|                                                                                |                                               | Jun-14         |   | Mar-14         |   | Oct-13         |    | Jul-13         |   | Nov-12         |    | Jul-12         |    | Jul-12              |    | Apr-12         |    |
|                                                                                |                                               | 58-68 feet bgs |   | 58-68 feet bgs |   | 58-68 feet bgs |    | 58-68 feet bgs |   | 58-68 feet bgs |    | 58-68 feet bgs |    | 58-68 feet bgs      |    | 58-68 feet bgs |    |
|                                                                                |                                               | (µg/L)         |   | (µg/L)         |   | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    |
| Analyte                                                                        |                                               |                |   |                |   |                |    |                |   |                |    |                |    |                     |    |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1            | U | 2.1            | U | 2.1            | U  | 2.1            | U | 2.1            | U  | 2.1            | U  | 2.1                 | U  | 2.1            | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5            | U | 1.5            | U | 1.5            | U  | 1.5            | U | 1.5            | U  | 1.5            | U  | 1.5                 | U  | 1.5            | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9            | U | 1.9            | U | 1.9            | U  | 1.9            | U | 1.9            | U  | 1.9            | U  | 1.9                 | U  | 1.9            | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7            | U | 1.7            | U | 1.7            | U  | 1.7            | U | 1.7            | U  | 1.7            | U  | 1.7                 | U  | 1.7            | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5            | U | 2.5            | U | 2.5            | U  | 2.5            | U | 2.5            | UJ | 2.5            | U  | 2.5                 | U  | 2.5            | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83           | U | 0.83           | U | 0.83           | U  | 0.83           | U | 0.83           | U  | 0.83           | U  | 0.83                | U  | 0.83           | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7            | U | 1.7            | U | 1.7            | U  | 1.7            | U | 1.7            | U  | 1.7            | U  | 1.7                 | U  | 1.7            | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5            | U | 1.5            | U | 1.5            | U  | 1.5            | U | 1.5            | U  | 1.5            | UJ | 1.5                 | UJ | 1.5            | U  |
| 2-Hexanone                                                                     | 50                                            | 1.8            | U | 1.8            | U | 1.8            | U  | 1.8            | U | 1.8            | U  | 1.8            | U  | 1.8                 | U  | 1.8            | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7            | U | 1.7            | U | 1.7            | U  | 1.7            | U | 1.7            | U  | 1.7            | U  | 1.7                 | U  | 1.7            | U  |
| Acetone                                                                        | 50                                            | 1.9            | U | 1.9            | U | 1.9            | U  | 1.9            | U | 1.9            | U  | 1.9            | UJ | 1.9                 | UJ | 1.9            | U  |
| Benzene                                                                        | 1                                             | 1.6            | U | 1.6            | U | 1.6            | U  | 1.6            | U | 1.6            | U  | 1.6            | U  | 1.6                 | U  | 1.6            | U  |
| Bromodichloromethane                                                           | 50                                            | 1.5            | U | 1.5            | U | 1.5            | U  | 1.5            | U | 1.5            | U  | 1.5            | U  | 1.5                 | U  | 1.5            | U  |
| Bromoform                                                                      | 50                                            | 5.0            | U | 5.0            | U | 5.0            | U  | 5.0            | U | 5.0            | UJ | 5.0            | U  | 5.0                 | U  | 5.0            | U  |
| Bromomethane                                                                   | 5                                             | 4.3            | U | 4.3            | U | 4.3            | UJ | 4.3            | U | 4.3            | UJ | 4.3            | U  | 4.3                 | U  | 4.3            | UJ |
| Carbon disulfide                                                               | 60                                            | 2.1            | U | 2.1            | U | 2.1            | U  | 2.1            | U | 2.1            | U  | 2.1            | U  | 2.1                 | U  | 2.1            | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0            | U | 2.0            | U | 2.0            | U  | 2.0            | U | 2.0            | U  | 2.0            | U  | 2.0                 | U  | 2.0            | U  |
| Chlorobenzene                                                                  | 5                                             | 1.6            | U | 1.6            | U | 1.6            | U  | 1.6            | U | 1.6            | U  | 1.6            | U  | 1.6                 | U  | 1.6            | U  |
| Chlorobromomethane                                                             | 5                                             | 1.7            | U | 1.7            | U | 1.7            | U  | 1.7            | U | 1.7            | U  | 1.7            | U  | 1.7                 | U  | 1.7            | U  |
| Chloroethane                                                                   | 5                                             | 2.5            | U | 2.5            | U | 2.5            | U  | 2.5            | U | 2.5            | U  | 2.5            | U  | 2.5                 | U  | 2.5            | U  |
| Chloroform                                                                     | 7                                             | 1.9            | U | 1.9            | U | 1.9            | U  | 1.9            | U | 1.9            | U  | 1.9            | U  | 1.9                 | U  | 1.9            | U  |
| Chloromethane                                                                  | 5                                             | 2.3            | U | 2.3            | U | 2.3            | U  | 2.3            | U | 2.3            | U  | 2.3            | U  | 2.3                 | U  | 2.3            | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8            | U | 1.8            | U | 1.8            | U  | 1.8            | U | 1.8            | U  | 1.8            | U  | 1.8                 | U  | 1.8            | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4            | U | 1.4            | U | 1.4            | U  | 1.4            | U | 1.4            | U  | 1.4            | U  | 1.4                 | U  | 1.4            | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6            | U | 1.6            | U | 1.6            | U  | 1.6            | U | 1.6            | U  | 1.6            | U  | 1.6                 | U  | 1.6            | U  |
| Methylene chloride                                                             | 5                                             | 1.3            | U | 1.3            | U | 1.3            | U  | 1.3            | U | 1.3            | U  | 1.3            | U  | 1.3                 | U  | 1.3            | U  |
| Styrene                                                                        | 5                                             | 1.7            | U | 1.7            | U | 1.7            | U  | 1.7            | U | 1.7            | U  | 1.7            | U  | 1.7                 | U  | 1.7            | U  |
| Tetrachloroethene                                                              | 5                                             | 10             |   | 2.4            | J | 2.1            | U  | 2.6            | J | 3.0            | U  | 2.1            | J  | 2.1                 | UJ | 2.1            | U  |
| Toluene                                                                        | 5                                             | 1.6            | U | 1.6            | U | 1.6            | U  | 1.6            | U | 4.5            | J  | 1.6            | U  | 1.6                 | U  | 1.6            | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9            | U | 1.9            | U | 1.9            | U  | 1.9            | U | 1.9            | U  | 1.9            | U  | 1.9                 | U  | 1.9            | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6            | U | 1.6            | U | 1.6            | U  | 1.6            | U | 1.6            | U  | 1.9            | U  | 1.6                 | U  | 1.6            | U  |
| Trichloroethene                                                                | 5                                             | 1.9            | U | 1.9            | U | 1.9            | U  | 1.9            | U | 1.9            | U  | 1.9            | U  | 1.9                 | U  | 1.9            | U  |
| Vinyl chloride                                                                 | 2                                             | 2.3            | U | 2.3            | U | 2.3            | U  | 2.3            | U | 2.3            | U  | 2.3            | U  | 2.3                 | U  | 2.3            | U  |
| m+p Xylene                                                                     | 5                                             | NA             |   | NA             |   | NA             |    | NA             |   | NA             |    | NA             |    | NA                  |    | NA             |    |
| o-Xylene                                                                       | 5                                             | NA             |   | NA             |   | NA             |    | NA             |   | NA             |    | NA             |    | NA                  |    | NA             |    |
| Total Xylenes                                                                  | 5                                             | 0.82           | U | 0.82           | U | 0.82           | U  | 0.82           | U | 0.82           | U  | 0.82           | U  | 0.82                | U  | 0.82           | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2011           |    |                |    |                |    | 2010           |     |                |    |                |    | 2009           |     |      |     |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|----|----------------|----|----------------|-----|----------------|----|----------------|----|----------------|-----|------|-----|
|                                                                                |                                               | FSMW-1A        |    | FSMW-1A        |    | FSMW-1A        |    | FSMW-1A        |     | FSMW-1A        |    | FSMW-1A        |    | FSMW-1A        |     |      |     |
|                                                                                |                                               | Dec-11         |    | Jul-11         |    | Mar-11         |    | Dec-10         |     | Sep-10         |    | Jun-10         |    | Mar-10         |     |      |     |
|                                                                                |                                               | 58-68 feet bgs |    | 58-68 feet bgs |    | 58-68 feet bgs |    | 58-68 feet bgs |     | 58-68 feet bgs |    | 58-68 feet bgs |    | 58-68 feet bgs |     |      |     |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |    | (µg/L)         |    | (µg/L)         |     | (µg/L)         |    | (µg/L)         |    | (µg/L)         |     |      |     |
| Analyte                                                                        |                                               |                |    |                |    |                |    |                |     |                |    |                |    |                |     |      |     |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1            | U  | 0.10           | U  | 0.30           | J  | 0.22           | J   | 0.25           | J  | 0.10           | U  | 0.10           | U   | 0.33 | J   |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5            | UJ | 0.10           | UJ | 0.10           | UJ | 0.10           | U   | 0.10           | U  | 0.10           | U* | 0.10           | U*  | 0.10 | U*  |
| 2-Hexanone                                                                     | 50                                            | 1.8            | UJ | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U* | 0.10           | U*  | 0.10 | U*  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Acetone                                                                        | 50                                            | 1.9            | UJ | 0.72           | UJ | 0.36           | UJ | 0.76           | JB* | 1.1            | J  | 0.10           | U* | 0.61           | JB* | 1.2  | JB* |
| Benzene                                                                        | 1                                             | 1.60           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Bromodichloromethane                                                           | 50                                            | 1.5            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Bromoform                                                                      | 50                                            | 5.0            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Bromomethane                                                                   | 5                                             | 4.3            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U*  | 0.10 | U   |
| Carbon disulfide                                                               | 60                                            | 2.1            | U  | 0.10           | U  | 0.18           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Carbon tetrachloride                                                           | 5                                             | 2.0            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Chlorobenzene                                                                  | 5                                             | 1.6            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Chlorobromomethane                                                             | 5                                             | 1.7            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Chloroethane                                                                   | 5                                             | 2.5            | U  | 0.10           | U  | 0.10           | UJ | 0.10           | U   | 0.52           | J  | 0.10           | U  | 0.10           | U   | 1.0  | J   |
| Chloroform                                                                     | 7                                             | 1.9            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Chloromethane                                                                  | 5                                             | 2.3            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.16           | J* | 0.10           | U  | 0.10           | U*  | 0.10 | U   |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.32           | J  | 0.10           | U   | 0.10 | U   |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Ethylbenzene                                                                   | 5                                             | 1.6            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Methylene chloride                                                             | 5                                             | 1.3            | U  | 0.45           | U  | 0.25           | U  | 0.48           | JB  | 0.24           | JB | 0.19           | JB | 0.35           | JB  | 0.50 | JB  |
| Styrene                                                                        | 5                                             | 1.7            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Tetrachloroethene                                                              | 5                                             | 6.0            | U  | 4.4            | J  | 6.1            | J  | 7.3            | J   | 21             |    | 27             |    | 65             |     | 30   |     |
| Toluene                                                                        | 5                                             | 1.6            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.17           | J  | 0.18           | J  | 0.10           | U   | 0.10 | U   |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |
| Trichloroethene                                                                | 5                                             | 1.9            | U  | 1.1            | J  | 1.1            | J  | 0.87           | J   | 0.94           | J  | 1.7            | J  | 4.5            | J   | 1.6  | J   |
| Vinyl chloride                                                                 | 2                                             | 2.3            | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U* | 0.10           | U  | 0.10           | U*  | 0.10 | U   |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |    | NA             |    | NA             |     | NA             |    | NA             |    | NA             |     | NA   |     |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |    | NA             |    | NA             |     | NA             |    | NA             |    | NA             |     | NA   |     |
| Total Xylenes                                                                  | 5                                             | 0.82           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U   | 0.10 | U   |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2009                |     |                |     |                |     |                |     | 2008           |    |                |    |                |   |                |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|----|----------------|----|----------------|---|----------------|---|
|                                                                                |                                               | FSMW-1A - Duplicate |     | FSMW-1A        |     | FSMW-1A        |     | FSMW-1A        |     | FSMW-1A        |    | FSMW-1A        |    | FSMW-1A        |   | FSMW-1A        |   |
|                                                                                |                                               | Dec-09              |     | Sep-09         |     | Jun-09         |     | Mar-09         |     | Dec-08         |    | Sep-08         |    | Jun-08         |   | Mar-08         |   |
|                                                                                |                                               | 58-68 feet bgs      |     | 58-68 feet bgs |     | 58-68 feet bgs |     | 58-68 feet bgs |     | 58-68 feet bgs |    | 58-68 feet bgs |    | 58-68 feet bgs |   | 58-68 feet bgs |   |
|                                                                                |                                               | (µg/L)              |     | (µg/L)         |     | (µg/L)         |     | (µg/L)         |     | (µg/L)         |    | (µg/L)         |    | (µg/L)         |   | (µg/L)         |   |
| Analyte                                                                        |                                               |                     |     |                |     |                |     |                |     |                |    |                |    |                |   |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10                | U   | 0.40           | J   | 0.54           | J   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.93           | J | 0.20           | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10                | U*  | 0.10           | U*  | 0.10           | U*  | 0.10           | U*  | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| 2-Hexanone                                                                     | 50                                            | 0.10                | U*  | 0.10           | U*  | 0.10           | U*  | 0.10           | U*  | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U*  | 0.10           | U* | 0.10           | U  | 0.10           | U | 0.20           | U |
| Acetone                                                                        | 50                                            | 1.5                 | JB* | 0.78           | JB* | 1.0            | JB* | 0.76           | JB* | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Benzene                                                                        | 1                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Bromodichloromethane                                                           | 50                                            | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Bromoform                                                                      | 50                                            | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Bromomethane                                                                   | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U*  | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Carbon disulfide                                                               | 60                                            | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Chlorobenzene                                                                  | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Chlorobromomethane                                                             | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Chloroethane                                                                   | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U*  | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Chloroform                                                                     | 7                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Chloromethane                                                                  | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.34           | J | 0.20           | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Ethylbenzene                                                                   | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Methylene chloride                                                             | 5                                             | 0.53                | JB  | 0.38           | JB  | 0.33           | JB  | 0.10           | U   | 0.10           | U  | 0.24           | JB | 0.10           | U | 0.20           | U |
| Styrene                                                                        | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Tetrachloroethene                                                              | 5                                             | 30                  |     | 56             |     | 63             |     | 75             | B   | 71             |    | 51             |    | 190            |   | 250            |   |
| Toluene                                                                        | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| Trichloroethene                                                                | 5                                             | 1.6                 | J   | 3.0            | J   | 1.7            | J   | 2.5            | J   | 1.7            | J  | 1.5            | J  | 3.7            | J | 5.1            |   |
| Vinyl chloride                                                                 | 2                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |
| m+p Xylene                                                                     | 5                                             | NA                  |     | NA             |     | NA             |     | NA             |     | NA             |    | NA             |    | NA             |   | NA             |   |
| o-Xylene                                                                       | 5                                             | NA                  |     | NA             |     | NA             |     | NA             |     | NA             |    | NA             |    | NA             |   | NA             |   |
| Total Xylenes                                                                  | 5                                             | 0.10                | U   | 0.10           | U   | 0.10           | U   | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.20           | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2008                |   | 2007           |    |                |   |                |    |                |   | 2006           |    |                |    | 2018             |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|---|----------------|----|----------------|---|----------------|----|----------------|---|----------------|----|----------------|----|------------------|---|
|                                                                                |                                               | FSMW-1A - Duplicate |   | FSMW-1A        |    | FSMW-1A        |   | FSMW-1A        |    | FSMW-1A        |   | FSMW-1A        |    | FSMW-1A        |    | FSMW-1B          |   |
|                                                                                |                                               | Mar-08              |   | Dec-07         |    | Aug-07         |   | May-07         |    | Feb-07         |   | Nov-06         |    | Aug-06         |    | Mar-18           |   |
|                                                                                |                                               | 58-68 feet bgs      |   | 58-68 feet bgs |    | 58-68 feet bgs |   | 58-68 feet bgs |    | 58-68 feet bgs |   | 58-68 feet bgs |    | 58-68 feet bgs |    | 117-127 feet bgs |   |
|                                                                                |                                               | (µg/L)              |   | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |    | (µg/L)           |   |
| Analyte                                                                        |                                               |                     |   |                |    |                |   |                |    |                |   |                |    |                |    |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.20                | U | 10             | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| 2-Hexanone                                                                     | 50                                            | 0.20                | U | 10             | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.20                | U | 10             | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Acetone                                                                        | 50                                            | 0.20                | U | 10             | U  | 0.10           | U | 50             | UJ | 50             | U | 10             | UJ | 50             | U  | 2.6              | U |
| Benzene                                                                        | 1                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Bromodichloromethane                                                           | 50                                            | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Bromoform                                                                      | 50                                            | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Bromomethane                                                                   | 5                                             | 0.20                | U | 5              | UJ | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | UJ | 0.10             | U |
| Carbon disulfide                                                               | 60                                            | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Carbon tetrachloride                                                           | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Chlorobenzene                                                                  | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Chlorobromomethane                                                             | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Chloroethane                                                                   | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | UJ | 0.10             | U |
| Chloroform                                                                     | 7                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Chloromethane                                                                  | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | UJ | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 1              | J  | 50             | U  | 0.10             | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Ethylbenzene                                                                   | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Methylene chloride                                                             | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.43             | U |
| Styrene                                                                        | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Tetrachloroethene                                                              | 5                                             | 210                 |   | 340            |    | 160            |   | 540            |    | 740            |   | 1,100          | J  | 410            |    | 1.2              | J |
| Toluene                                                                        | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| Trichloroethene                                                                | 5                                             | 4.6                 | J | 7.2            |    | 9.9            | J | 31             | J  | 39             | J | 86             | J  | 18             | J  | 0.10             | U |
| Vinyl chloride                                                                 | 2                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | UJ | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |
| m+p Xylene                                                                     | 5                                             | NA                  |   | NA             |    | NA             |   | NA             |    | NA             |   | NA             |    | NA             |    | NA               |   |
| o-Xylene                                                                       | 5                                             | NA                  |   | NA             |    | NA             |   | NA             |    | NA             |   | NA             |    | NA             |    | NA               |   |
| Total Xylenes                                                                  | 5                                             | 0.20                | U | 5              | U  | 0.10           | U | 50             | U  | 50             | U | 10             | UJ | 50             | U  | 0.10             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2016             |          | 2015             |   | 2014             |    | 2013             |          | 2012             |    |                     |    | 2010             |           | 2009             |            |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----------|------------------|---|------------------|----|------------------|----------|------------------|----|---------------------|----|------------------|-----------|------------------|------------|
|                                                                                |                                               | FSMW-1B          |          | FSMW-1B          |   | FSMW-1B          |    | FSMW-1B          |          | FSMW-1B          |    | FSMW-1B - Duplicate |    | FSMW-1B          |           | FSMW-1B          |            |
|                                                                                |                                               | Dec-16           |          | Sep-15           |   | Oct-14           |    | Oct-13           |          | Nov-12           |    | Nov-12              |    | Sep-10           |           | Sep-09           |            |
|                                                                                |                                               | 117-127 feet bgs |          | 117-127 feet bgs |   | 117-127 feet bgs |    | 117-127 feet bgs |          | 117-127 feet bgs |    | 117-127 feet bgs    |    | 117-127 feet bgs |           | 117-127 feet bgs |            |
|                                                                                |                                               | (µg/L)           |          | (µg/L)           |   | (µg/L)           |    | (µg/L)           |          | (µg/L)           |    | (µg/L)              |    | (µg/L)           |           | (µg/L)           |            |
| Analyte                                                                        |                                               |                  |          |                  |   |                  |    |                  |          |                  |    |                     |    |                  |           |                  |            |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U        | 2.1              | U | 2.1              | U  | 2.1              | U        | 2.1              | U  | 2.1                 | U  | 0.10             | U         | 0.10             | U          |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | UJ       | 1.5              | U | 1.5              | U  | 1.5              | U        | 1.5              | U  | 1.5                 | U  | 0.10             | U         | 0.10             | U          |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U        | 1.9              | U | 1.9              | U  | 1.9              | U        | 1.9              | U  | 1.9                 | U  | 0.10             | U         | 0.10             | U          |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U        | 1.7              | U | 1.7              | U  | 1.7              | U        | 1.7              | U  | 1.7                 | U  | 0.10             | U         | 0.10             | U          |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U        | 2.5              | U | 2.5              | U  | 2.5              | U        | 2.5              | UJ | 2.5                 | U  | 0.10             | U         | 0.10             | U          |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U        | 0.83             | U | 0.83             | U  | 0.83             | U        | 0.83             | U  | 0.83                | U  | 0.10             | U         | 0.10             | U          |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U        | 1.7              | U | 1.7              | U  | 1.7              | U        | 1.7              | U  | 1.7                 | U  | 0.10             | U         | 0.10             | U          |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | UJ       | 1.5              | U | 1.5              | U  | 1.5              | U        | 1.5              | U  | 1.5                 | U  | 0.10             | U         | 0.10             | U*         |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U        | 1.8              | U | 1.8              | U  | 1.8              | U        | 1.8              | U  | 1.8                 | U  | 0.10             | U         | 0.10             | U          |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U        | 1.7              | U | 1.7              | U  | 1.7              | U        | 1.7              | U  | 1.7                 | U  | 0.10             | U         | 0.10             | U          |
| Acetone                                                                        | 50                                            | 0.10             | UJ       | 1.9              | U | 1.9              | U  | 1.9              | U        | 1.9              | U  | 1.9                 | U  | <b>1.7</b>       | <b>J</b>  | <b>1.1</b>       | <b>JB*</b> |
| Benzene                                                                        | 1                                             | 0.10             | U        | 1.6              | U | 1.6              | U  | 1.6              | U        | 1.6              | U  | 1.6                 | U  | 0.10             | U         | 0.10             | U          |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U        | 1.5              | U | 1.5              | U  | 1.5              | U        | 1.5              | U  | 1.5                 | U  | 0.10             | U         | 0.10             | U          |
| Bromoform                                                                      | 50                                            | 0.10             | U        | 5.0              | U | 5.0              | UJ | 5.0              | U        | 5.0              | UJ | 5.0                 | UJ | 0.10             | U         | 0.10             | U          |
| Bromomethane                                                                   | 5                                             | 0.10             | U        | 4.3              | U | 4.3              | U  | 4.3              | UJ       | 4.3              | UJ | 4.3                 | U  | 0.10             | U         | 0.10             | U          |
| Carbon disulfide                                                               | 60                                            | 0.10             | U        | 2.1              | U | 2.1              | U  | 2.1              | U        | 2.1              | U  | 2.1                 | U  | 0.10             | U         | 0.10             | U          |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U        | 2.0              | U | 2.0              | U  | 2.0              | U        | 2.0              | U  | 2.0                 | U  | 0.10             | U         | 0.10             | U          |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U        | 1.6              | U | 1.6              | U  | 1.6              | U        | 1.6              | U  | 1.6                 | U  | 0.10             | U         | 0.10             | U          |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U        | 1.7              | U | 1.7              | U  | 1.7              | U        | 1.7              | U  | 1.7                 | U  | 0.10             | U         | 0.10             | U          |
| Chloroethane                                                                   | 5                                             | 0.10             | U        | 2.5              | U | 2.5              | U  | 2.5              | U        | 2.5              | U  | 2.5                 | U  | 0.10             | U         | 0.10             | U          |
| Chloroform                                                                     | 7                                             | 0.10             | U        | 1.9              | U | 1.9              | U  | 1.9              | U        | 1.9              | U  | 1.9                 | U  | 0.10             | U         | 0.10             | U          |
| Chloromethane                                                                  | 5                                             | 0.10             | UJ       | 2.3              | U | 2.3              | U  | 2.3              | U        | 2.3              | U  | 2.3                 | U  | <b>0.22</b>      | <b>J*</b> | 0.10             | U          |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U        | 1.8              | U | 1.8              | U  | 1.8              | U        | 1.8              | U  | 1.8                 | U  | 0.10             | U         | 0.10             | U          |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U        | 1.4              | U | 1.4              | U  | 1.4              | U        | 1.4              | U  | 1.4                 | U  | 0.10             | U         | 0.10             | U          |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U        | 1.6              | U | 1.6              | U  | 1.6              | U        | 1.6              | U  | 1.6                 | U  | 0.10             | U         | 0.10             | U          |
| Methylene chloride                                                             | 5                                             | 0.10             | U        | 1.3              | U | 1.3              | U  | 1.3              | U        | 1.3              | U  | 1.3                 | U  | <b>0.27</b>      | <b>JB</b> | <b>0.35</b>      | <b>JB</b>  |
| Styrene                                                                        | 5                                             | 0.10             | U        | 1.7              | U | 1.7              | U  | 1.7              | U        | 1.7              | U  | 1.7                 | U  | 0.10             | U         | 0.10             | U          |
| Tetrachloroethene                                                              | 5                                             | 0.10             | U        | 2.1              | U | 2.1              | U  | <b>2.8</b>       | <b>J</b> | 2.9              | U  | 2.1                 | U  | <b>0.86</b>      | <b>J</b>  | <b>0.69</b>      | <b>J</b>   |
| Toluene                                                                        | 5                                             | <b>1.8</b>       | <b>J</b> | 1.6              | U | 1.6              | U  | 1.6              | U        | <b>12</b>        |    | <b>12</b>           |    | <b>0.86</b>      | <b>J</b>  | <b>0.15</b>      | <b>J</b>   |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U        | 1.9              | U | 1.9              | U  | 1.9              | U        | 1.9              | U  | 1.9                 | U  | 0.10             | U         | 0.10             | U          |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U        | 1.6              | U | 1.6              | U  | 1.6              | U        | 1.6              | U  | 1.6                 | U  | 0.10             | U         | 0.10             | U          |
| Trichloroethene                                                                | 5                                             | 0.10             | U        | 1.9              | U | 1.9              | U  | 1.9              | U        | 1.9              | U  | 1.9                 | U  | 0.10             | U         | 0.10             | U          |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U        | 2.3              | U | 2.3              | U  | 2.3              | U        | 2.3              | U  | 2.3                 | U  | 0.10             | U*        | 0.10             | U          |
| m+p Xylene                                                                     | 5                                             | NA               |          | NA               |   | NA               |    | NA               |          | NA               |    | NA                  |    | NA               |           | NA               |            |
| o-Xylene                                                                       | 5                                             | NA               |          | NA               |   | NA               |    | NA               |          | NA               |    | NA                  |    | NA               |           | NA               |            |
| Total Xylenes                                                                  | 5                                             | 0.10             | U        | 0.82             | U | 0.82             | U  | 0.82             | U        | 0.82             | U  | 0.10                | U  | 0.10             | U         | 0.10             | U          |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2008             |    | 2007             |          | 2006             |   | 2018           |   |                     |   |                |   |                |          | 2017           |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|------------------|----------|------------------|---|----------------|---|---------------------|---|----------------|---|----------------|----------|----------------|----------|
|                                                                                |                                               | FSMW-1B          |    | FSMW-1B          |          | FSMW-1B          |   | FSMW-2A        |   | FSMW-2A (Duplicate) |   | FSMW-2A        |   | FSMW-2A        |          | FSMW-2A        |          |
|                                                                                |                                               | Sep-08           |    | Aug-07           |          | Aug-06           |   | Oct-18         |   | Oct-18              |   | Jun-18         |   | Mar-18         |          | Dec-17         |          |
|                                                                                |                                               | 117-127 feet bgs |    | 117-127 feet bgs |          | 117-127 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs      |   | 60-70 feet bgs |   | 60-70 feet bgs |          | 60-70 feet bgs |          |
|                                                                                |                                               | (µg/L)           |    | (µg/L)           |          | (µg/L)           |   | (µg/L)         |   | (µg/L)              |   | (µg/L)         |   | (µg/L)         |          | (µg/L)         |          |
| Analyte                                                                        |                                               |                  |    |                  |          |                  |   |                |   |                     |   |                |   |                |          |                |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.48           | U | 0.48                | U | 0.24           | U | 0.10           | U        | 0.10           | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.73           | U | 0.73                | U | 0.37           | U | 0.10           | U        | 0.10           | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.87           | U | 0.87                | U | 0.43           | U | 0.10           | U        | 0.10           | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.53           | U | 0.53                | U | 0.26           | U | 0.10           | U        | 0.10           | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.23           | U | 0.23                | U | 0.12           | U | 0.10           | U        | 0.10           | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U  | 0.10             | U        | 10               | U | 0.86           | U | 0.86                | U | 0.43           | U | 0.10           | U        | 0.10           | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.71           | U | 0.71                | U | 0.35           | U | 0.10           | U        | 0.10           | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U  | 0.10             | U        | 10               | U | 3.7            | U | 3.7                 | U | 1.9            | U | 0.10           | U        | 0.10           | U        |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U  | 0.10             | U        | 10               | U | 5.8            | U | 5.8                 | U | 2.9            | U | 0.10           | U        | 0.10           | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U  | 0.10             | U        | 10               | U | 5.5            | U | 5.5                 | U | 2.7            | U | 0.10           | U        | 0.10           | U        |
| Acetone                                                                        | 50                                            | 0.10             | U* | 0.10             | U        | 10               | U | 10             | U | 10                  | U | 5              | U | 0.10           | U        | 0.10           | U        |
| Benzene                                                                        | 1                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.86           | U | 0.86                | U | 0.43           | U | 0.10           | U        | 0.10           | U        |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U  | 0.10             | U        | 10               | U | 0.69           | U | 0.69                | U | 0.34           | U | 0.10           | U        | 0.10           | U        |
| Bromoform                                                                      | 50                                            | 0.10             | U  | 0.10             | U        | 10               | U | 1.1            | U | 1.1                 | U | 0.54           | U | 0.10           | U        | 0.10           | U        |
| Bromomethane                                                                   | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 2              | U | 2                   | U | 1              | U | 0.10           | U        | 0.10           | U        |
| Carbon disulfide                                                               | 60                                            | 0.10             | U  | 0.10             | U        | 10               | U | 0.31           | U | 0.31                | U | 0.16           | U | 0.10           | U        | 0.10           | U        |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.42           | U | 0.42                | U | 0.21           | U | 0.10           | U        | 0.10           | U        |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.75           | U | 0.75                | U | 0.38           | U | <b>0.37</b>    | <b>J</b> | 0.10           | U        |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.82           | U | 0.82                | U | 0.41           | U | 0.10           | U        | 0.10           | U        |
| Chloroethane                                                                   | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.64           | U | 0.64                | U | 0.32           | U | 0.10           | U        | 0.10           | U        |
| Chloroform                                                                     | 7                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.65           | U | 0.65                | U | 0.33           | U | 0.10           | U        | 0.10           | U        |
| Chloromethane                                                                  | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.29           | U | 0.29                | U | 0.14           | U | 0.10           | U        | 0.10           | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | <b>28</b>      |   | <b>27</b>           |   | <b>10</b>      |   | <b>45</b>      |          | <b>10</b>      |          |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U  | 0.10             | U        | 10               | U | 0.91           | U | 0.91                | U | 0.46           | U | 0.10           | U        | 0.10           | U        |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.6            | U | 0.6                 | U | 0.3            | U | 0.10           | U        | 0.10           | U        |
| Methylene chloride                                                             | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.63           | U | 0.63                | U | 0.32           | U | 0.43           | U        | 0.10           | U        |
| Styrene                                                                        | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.83           | U | 0.83                | U | 0.42           | U | 0.10           | U        | 0.10           | U        |
| Tetrachloroethene                                                              | 5                                             | 0.10             | U  | <b>0.33</b>      | <b>J</b> | <b>17</b>        |   | <b>350</b>     |   | <b>340</b>          |   | <b>200</b>     |   | <b>450</b>     | <b>D</b> | <b>200</b>     |          |
| Toluene                                                                        | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.76           | U | 0.76                | U | 0.38           | U | 0.10           | U        | 0.10           | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.47           | U | 0.47                | U | 0.24           | U | <b>0.43</b>    | <b>J</b> | 0.10           | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U  | 0.10             | U        | 10               | U | 0.97           | U | 0.97                | U | 0.49           | U | 0.10           | U        | 0.10           | U        |
| Trichloroethene                                                                | 5                                             | 0.10             | U  | 0.10             | U        | 10               | U | <b>19</b>      |   | <b>19</b>           |   | <b>7.9</b>     |   | <b>19</b>      |          | <b>7.9</b>     | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U  | 0.10             | U        | 10               | U | 0.34           | U | 0.34                | U | 0.17           | U | 0.10           | U        | 0.10           | U        |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA               |          | NA               |   | NA             |   | NA                  |   | 0.3            | U | NA             |          | NA             |          |
| o-Xylene                                                                       | 5                                             | NA               |    | NA               |          | NA               |   | NA             |   | NA                  |   | 0.36           | U | NA             |          | NA             |          |
| Total Xylenes                                                                  | 5                                             | 0.10             | U  | 10               | U        | 0.82             | U | 1.3            | U | 1.3                 | U | NA             |   | 0.10           | U        | 0.10           | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2017                |   |                |   |                     |   |                |    |                     |    | 2016           |    |                |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|---|----------------|---|---------------------|---|----------------|----|---------------------|----|----------------|----|----------------|----|
|                                                                                |                                               | FSMW-2A - Duplicate |   | FSMW-2A        |   | FSMW-2A - Duplicate |   | FSMW-2A        |    | FSMW-2A - Duplicate |    | FSMW-2A        |    | FSMW-2A        |    |
|                                                                                |                                               | Dec-17              |   | Sep-17         |   | Sep-17              |   | Jun-17         |    | Jun-17              |    | Mar-17         |    | Dec-16         |    |
|                                                                                |                                               | 60-70 feet bgs      |   | 60-70 feet bgs |   | 60-70 feet bgs      |   | 60-70 feet bgs |    | 60-70 feet bgs      |    | 60-70 feet bgs |    | 60-70 feet bgs |    |
|                                                                                |                                               | (µg/L)              |   | (µg/L)         |   | (µg/L)              |   | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    | (µg/L)         |    |
| Analyte                                                                        |                                               |                     |   |                |   |                     |   |                |    |                     |    |                |    |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | UJ | 0.20                | UJ | 0.5            | U  | 1.0            | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | UJ |
| 2-Hexanone                                                                     | 50                                            | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Acetone                                                                        | 50                                            | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | UJ | 0.20                | UJ | 0.5            | UJ | 1.0            | UJ |
| Benzene                                                                        | 1                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Bromodichloromethane                                                           | 50                                            | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Bromoform                                                                      | 50                                            | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Bromomethane                                                                   | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | UJ |
| Carbon disulfide                                                               | 60                                            | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Carbon tetrachloride                                                           | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Chlorobenzene                                                                  | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Chlorobromomethane                                                             | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Chloroethane                                                                   | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Chloroform                                                                     | 7                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Chloromethane                                                                  | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | UJ |
| cis-1,2-Dichloroethene                                                         | 5                                             | 11                  | J | 7.6            | J | 6.8                 | J | 7.3            | J  | 6.6                 | J  | 14             | J  | 25             | J  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Ethylbenzene                                                                   | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Methylene chloride                                                             | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Styrene                                                                        | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Tetrachloroethene                                                              | 5                                             | 190                 |   | 180            |   | 170                 |   | 290            |    | 280                 |    | 550            |    | 1,000          |    |
| Toluene                                                                        | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| Trichloroethene                                                                | 5                                             | 7.8                 | J | 6.6            | J | 5.7                 | J | 6.9            | J  | 6.5                 | J  | 17             | J  | 37             | J  |
| Vinyl chloride                                                                 | 2                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | U  | 0.20                | U  | 0.5            | U  | 1.0            | U  |
| m+p Xylene                                                                     | 5                                             | NA                  |   | NA             |   | NA                  |   | NA             |    | NA                  |    | NA             |    | NA             |    |
| o-Xylene                                                                       | 5                                             | NA                  |   | NA             |   | NA                  |   | NA             |    | NA                  |    | NA             |    | NA             |    |
| Total Xylenes                                                                  | 5                                             | 0.10                | U | 0.10           | U | 0.10                | U | 0.20           | UJ | 0.20                | UJ | 0.5            | U  | 1.0            | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2016           |   |                |   |                     |   | 2015           |   |                |   |                |   | 2014           |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|---|----------------|---|---------------------|---|----------------|---|----------------|---|----------------|---|----------------|---|
|                                                                                |                                               | FSMW-2A        |   | FSMW-2A        |   | FSMW-2A - Duplicate |   | FSMW-2A        |   | FSMW-2A        |   | FSMW-2A        |   | FSMW-2A        |   |
|                                                                                |                                               | Jun-16         |   | Apr-16         |   | Apr-16              |   | Dec-15         |   | Oct-15         |   | Jul-15         |   | Mar-15         |   |
|                                                                                |                                               | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs      |   | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |   |
|                                                                                |                                               | (µg/L)         |   | (µg/L)         |   | (µg/L)              |   | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   |
| Analyte                                                                        |                                               |                |   |                |   |                     |   |                |   |                |   |                |   |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 42             | U | 210            | U | 10             | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 30             | U | 150            | U | 10             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 38             | U | 190            | U | 10             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 34             | U | 170            | U | 10             | U |
| 1,1-Dichloroethene                                                             | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 50             | U | 250            | U | 10             | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 17             | U | 83             | U | 10             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 34             | U | 170            | U | 10             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 30             | U | 150            | U | 10             | U |
| 2-Hexanone                                                                     | 50                                            | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 36             | U | 180            | U | 10             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 34             | U | 170            | U | 10             | U |
| Acetone                                                                        | 50                                            | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 38             | U | 190            | U | 10             | U |
| Benzene                                                                        | 1                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 32             | U | 160            | U | 10             | U |
| Bromodichloromethane                                                           | 50                                            | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 30             | U | 150            | U | 10             | U |
| Bromoform                                                                      | 50                                            | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 100            | U | 500            | U | 10             | U |
| Bromomethane                                                                   | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 86             | U | 430            | U | 10             | U |
| Carbon disulfide                                                               | 60                                            | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 42             | U | 210            | U | 10             | U |
| Carbon tetrachloride                                                           | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 40             | U | 200            | U | 10             | U |
| Chlorobenzene                                                                  | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.43           | J | 32             | U | 160            | U | 10             | U |
| Chlorobromomethane                                                             | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 34             | U | 170            | U | 10             | U |
| Chloroethane                                                                   | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 50             | U | 250            | U | 10             | U |
| Chloroform                                                                     | 7                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 38             | U | 190            | U | 10             | U |
| Chloromethane                                                                  | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 46             | U | 230            | U | 10             | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 17             | J | 26             | J | 27                  | J | 37             |   | 38             | J | 180            | U | 140            |   |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 28             | U | 140            | U | 10             | U |
| Ethylbenzene                                                                   | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 32             | U | 160            | U | 10             | U |
| Methylene chloride                                                             | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 26             | U | 130            | U | 10             | U |
| Styrene                                                                        | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 34             | U | 170            | U | 10             | U |
| Tetrachloroethene                                                              | 5                                             | 1,000          |   | 1,300          |   | 1,300               |   | 1,200          | D | 2,000          |   | 8,100          |   | 5,400          |   |
| Toluene                                                                        | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 32             | U | 160            | U | 10             | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 38             | U | 190            | U | 10             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 32             | U | 160            | U | 10             | U |
| Trichloroethene                                                                | 5                                             | 32             | J | 53             | J | 53                  | J | 61             |   | 61             | J | 280            | J | 310            |   |
| Vinyl chloride                                                                 | 2                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 46             | U | 230            | U | 10             | U |
| m+p Xylene                                                                     | 5                                             | NA             |   | NA             |   | NA                  |   | NA             |   | NA             |   | NA             |   | NA             |   |
| o-Xylene                                                                       | 5                                             | NA             |   | NA             |   | NA                  |   | NA             |   | NA             |   | NA             |   | NA             |   |
| Total Xylenes                                                                  | 5                                             | 1.0            | U | 1.0            | U | 1.0                 | U | 0.10           | U | 16             | U | 10             | U | 41             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2014           |   |                     |    |                |   |                     |   |                |    | 2013           |   |                |   |                     |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|---|---------------------|----|----------------|---|---------------------|---|----------------|----|----------------|---|----------------|---|---------------------|---|
|                                                                                |                                               | FSMW-2A        |   | FSMW-2A - Duplicate |    | FSMW-2A        |   | FSMW-2A - Duplicate |   | FSMW-2A        |    | FSMW-2A        |   | FSMW-2A        |   | FSMW-2A - Duplicate |   |
|                                                                                |                                               | Sep-14         |   | Sep-14              |    | Jun-14         |   | Jun-14              |   | Mar-14         |    | Oct-13         |   | Jul-13         |   | Jul-13              |   |
|                                                                                |                                               | 60-70 feet bgs |   | 60-70 feet bgs      |    | 60-70 feet bgs |   | 60-70 feet bgs      |   | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs      |   |
|                                                                                |                                               | (µg/L)         |   | (µg/L)              |    | (µg/L)         |   | (µg/L)              |   | (µg/L)         |    | (µg/L)         |   | (µg/L)         |   | (µg/L)              |   |
| Analyte                                                                        |                                               |                |   |                     |    |                |   |                     |   |                |    |                |   |                |   |                     |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 110            | U | 110                 | U  | 110            | U | 110                 | U | 210            | U  | 2.1            | U | 11             | U | 170                 | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 75             | U | 75                  | U  | 75             | U | 75                  | U | 150            | U  | 1.5            | U | 7.5            | U | 120                 | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 95             | U | 95                  | U  | 95             | U | 95                  | U | 190            | U  | 1.9            | U | 9.5            | U | 150                 | U |
| 1,1-Dichloroethane                                                             | 5                                             | 85             | U | 85                  | U  | 85             | U | 85                  | U | 170            | U  | 1.7            | U | 8.5            | U | 140                 | U |
| 1,1-Dichloroethene                                                             | 5                                             | 130            | U | 130                 | U  | 130            | U | 130                 | U | 250            | U  | 2.5            | U | 13             | U | 200                 | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 42             | U | 42                  | U  | 42             | U | 42                  | U | 83             | U  | 0.83           | U | 4.2            | U | 66                  | U |
| 1,2-Dichloropropane                                                            | 1                                             | 85             | U | 85                  | U  | 85             | U | 85                  | U | 170            | U  | 1.7            | U | 8.5            | U | 140                 | U |
| 2-Butanone (MEK)                                                               | 50                                            | 75             | U | 75                  | U  | 75             | U | 75                  | U | 150            | UJ | 1.5            | U | 7.5            | U | 120                 | U |
| 2-Hexanone                                                                     | 50                                            | 90             | U | 90                  | U  | 90             | U | 90                  | U | 180            | U  | 1.8            | U | 9.0            | U | 140                 | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 85             | U | 85                  | U  | 85             | U | 85                  | U | 170            | U  | 1.7            | U | 8.5            | U | 140                 | U |
| Acetone                                                                        | 50                                            | 95             | U | 95                  | U  | 95             | U | 95                  | U | 190            | U  | 1.9            | U | 9.5            | U | 150                 | U |
| Benzene                                                                        | 1                                             | 80             | U | 80                  | U  | 80             | U | 80                  | U | 160            | U  | 1.6            | U | 8.0            | U | 130                 | U |
| Bromodichloromethane                                                           | 50                                            | 75             | U | 75                  | U  | 75             | U | 75                  | U | 150            | U  | 1.5            | U | 7.5            | U | 120                 | U |
| Bromoform                                                                      | 50                                            | 250            | U | 250                 | UJ | 250            | U | 250                 | U | 500            | U  | 5.0            | U | 25.0           | U | 400                 | U |
| Bromomethane                                                                   | 5                                             | 220            | U | 220                 | U  | 220            | U | 220                 | U | 430            | UJ | 4.3            | U | 22             | U | 340                 | U |
| Carbon disulfide                                                               | 60                                            | 110            | U | 110                 | U  | 110            | U | 110                 | U | 210            | U  | 2.1            | U | 11             | U | 170                 | U |
| Carbon tetrachloride                                                           | 5                                             | 100            | U | 100                 | U  | 100            | U | 100                 | U | 200            | U  | 2.0            | U | 10.0           | U | 160                 | U |
| Chlorobenzene                                                                  | 5                                             | 80             | U | 80                  | U  | 80             | U | 80                  | U | 160            | U  | 1.6            | U | 8.0            | U | 130                 | U |
| Chlorobromomethane                                                             | 5                                             | 85             | U | 85                  | U  | 85             | U | 85                  | U | 170            | U  | 1.7            | U | 8.5            | U | 140                 | U |
| Chloroethane                                                                   | 5                                             | 130            | U | 130                 | U  | 130            | U | 130                 | U | 250            | U  | 2.5            | U | 13             | U | 200                 | U |
| Chloroform                                                                     | 7                                             | 95             | U | 95                  | U  | 95             | U | 95                  | U | 190            | U  | 1.9            | U | 9.5            | U | 150                 | U |
| Chloromethane                                                                  | 5                                             | 120            | U | 120                 | U  | 120            | U | 120                 | U | 230            | U  | 2.3            | U | 12             | U | 180                 | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 180            | J | 200                 | J  | 130            | J | 140                 | J | 180            | U  | 110            |   | 160            |   | 140                 | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 70             | U | 70                  | U  | 70             | U | 70                  | U | 140            | U  | 1.4            | U | 7.0            | U | 110                 | U |
| Ethylbenzene                                                                   | 5                                             | 80             | U | 80                  | U  | 80             | U | 80                  | U | 160            | U  | 1.6            | U | 8.0            | U | 130                 | U |
| Methylene chloride                                                             | 5                                             | 65             | U | 65                  | U  | 65             | U | 120                 | J | 130            | U  | 1.3            | U | 6.5            | U | 100                 | U |
| Styrene                                                                        | 5                                             | 85             | U | 85                  | U  | 85             | U | 85                  | U | 170            | U  | 1.7            | U | 8.5            | U | 140                 | U |
| Tetrachloroethene                                                              | 5                                             | 6,200          |   | 5,700               |    | 7,000          |   | 7,400               |   | 12,000         |    | 24,000         | D | 9,300          | D | 9,600               |   |
| Toluene                                                                        | 5                                             | 80             | U | 80                  | U  | 80             | U | 80                  | U | 160            | U  | 1.6            | U | 8.0            | U | 130                 | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 95             | U | 95                  | U  | 95             | U | 95                  | U | 190            | U  | 1.9            | U | 9.5            | U | 150                 | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 80             | U | 80                  | U  | 80             | U | 80                  | U | 160            | U  | 1.6            | U | 8.0            | U | 130                 | U |
| Trichloroethene                                                                | 5                                             | 270            | J | 280                 | J  | 200            | J | 210                 | J | 210            | J  | 730            | D | 620            |   | 710                 | J |
| Vinyl chloride                                                                 | 2                                             | 120            | U | 120                 | U  | 120            | U | 120                 | U | 230            | U  | 2.3            | U | 12             | U | 180                 | U |
| m+p Xylene                                                                     | 5                                             | NA             |   | NA                  |    | NA             |   | NA                  |   | NA             |    | NA             |   | NA             |   | NA                  |   |
| o-Xylene                                                                       | 5                                             | NA             |   | NA                  |    | NA             |   | NA                  |   | NA             |    | NA             |   | NA             |   | NA                  |   |
| Total Xylenes                                                                  | 5                                             | 41             | U | 41                  | U  | 41             | U | 82                  | U | 0.82           | U  | 4.1            | U | 65             | U | 0.82                | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2012           |    |                |    |                |    |                     |    | 2011           |    |                |    |                |    |                |     | 2010    |  |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|----|----------------|----|---------------------|----|----------------|----|----------------|----|----------------|----|----------------|-----|---------|--|
|                                                                                |                                               | FSMW-2A        |    | FSMW-2A        |    | FSMW-2A        |    | FSMW-2A - Duplicate |    | FSMW-2A        |    | FSMW-2A        |    | FSMW-2A        |    | FSMW-2A        |     | FSMW-2A |  |
|                                                                                |                                               | Nov-12         |    | Jul-12         |    | Apr-12         |    | Apr-12              |    | Dec-11         |    | Jul-11         |    | Mar-11         |    | Dec-10         |     |         |  |
|                                                                                |                                               | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs      |    | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs |     |         |  |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |    | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    | (µg/L)         |    | (µg/L)         |    | (µg/L)         |     | (µg/L)  |  |
| Analyte                                                                        |                                               |                |    |                |    |                |    |                     |    |                |    |                |    |                |    |                |     |         |  |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1            | U  | 2.1            | U  | 2.1            | U  | 2.1                 | U  | 2.1            | U  | 1.0            | U  | 0.27           | J  | 0.20           | U   |         |  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5            | U  | 1.5            | U  | 1.5            | U  | 1.5                 | U  | 1.5            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9            | U  | 1.9            | U  | 1.9            | U  | 1.9                 | U  | 1.9            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7            | U  | 1.7            | U  | 1.7            | U  | 1.7                 | U  | 1.7            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5            | UJ | 2.5            | U  | 2.5            | U  | 2.5                 | U  | 2.5            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83           | U  | 0.83           | U  | 0.83           | U  | 0.83                | U  | 0.83           | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7            | U  | 1.7            | U  | 1.7            | U  | 1.7                 | U  | 1.7            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5            | U  | 1.5            | UJ | 1.5            | U  | 1.5                 | U  | 1.5            | UJ | 1.0            | UJ | 0.20           | UJ | 0.20           | U   |         |  |
| 2-Hexanone                                                                     | 50                                            | 1.8            | U  | 1.8            | U  | 1.8            | U  | 1.8                 | U  | 1.8            | UJ | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7            | U  | 1.7            | U  | 1.7            | U  | 1.7                 | U  | 1.7            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Acetone                                                                        | 50                                            | 1.9            | U  | 1.9            | UJ | 1.9            | U  | 1.9                 | U  | 1.9            | UJ | 4.1            | UJ | 0.65           | UJ | 1.4            | JB* |         |  |
| Benzene                                                                        | 1                                             | 1.6            | U  | 1.6            | U  | 1.6            | U  | 1.6                 | U  | 1.6            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Bromodichloromethane                                                           | 50                                            | 1.5            | U  | 1.5            | U  | 1.5            | U  | 1.5                 | U  | 1.5            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Bromoform                                                                      | 50                                            | 5.0            | UJ | 5.0            | U  | 5.0            | U  | 5.0                 | U  | 5.0            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Bromomethane                                                                   | 5                                             | 4.3            | UJ | 4.3            | U  | 4.3            | UJ | 4.3                 | UJ | 4.3            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Carbon disulfide                                                               | 60                                            | 2.1            | U  | 2.1            | U  | 2.1            | U  | 2.1                 | U  | 2.1            | U  | 1.0            | U  | 1.4            | U  | 0.20           | JB  |         |  |
| Carbon tetrachloride                                                           | 5                                             | 2.0            | U  | 2.0            | U  | 2.0            | U  | 2.0                 | U  | 2.0            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Chlorobenzene                                                                  | 5                                             | 1.6            | U  | 1.6            | U  | 1.6            | U  | 1.6                 | U  | 1.6            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Chlorobromomethane                                                             | 5                                             | 1.7            | U  | 1.7            | U  | 1.7            | U  | 1.7                 | U  | 1.7            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Chloroethane                                                                   | 5                                             | 2.5            | U  | 2.5            | U  | 2.5            | U  | 2.5                 | U  | 2.5            | U  | 1.0            | U  | 0.20           | UJ | 0.20           | U   |         |  |
| Chloroform                                                                     | 7                                             | 1.9            | U  | 1.9            | U  | 1.9            | U  | 1.9                 | U  | 1.9            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Chloromethane                                                                  | 5                                             | 2.3            | U  | 2.3            | U  | 2.3            | U  | 2.3                 | U  | 2.3            | U  | 1.0            | UJ | 0.20           | U  | 0.20           | U   |         |  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8            | U  | 1.8            | U  | 1.8            | U  | 1.8                 | U  | 1.8            | U  | 21             | J  | 150            |    | 73             |     |         |  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4            | U  | 1.4            | U  | 1.4            | U  | 1.4                 | U  | 1.4            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Ethylbenzene                                                                   | 5                                             | 1.6            | U  | 1.6            | U  | 1.6            | U  | 1.6                 | U  | 1.6            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Methylene chloride                                                             | 5                                             | 1.3            | U  | 1.3            | U  | 1.3            | U  | 1.3                 | U  | 1.3            | U  | 32             | U  | 2.2            | U  | 4.3            | JB  |         |  |
| Styrene                                                                        | 5                                             | 1.7            | U  | 1.7            | U  | 1.7            | U  | 1.7                 | U  | 1.7            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Tetrachloroethene                                                              | 5                                             | 780            | D  | 2.3            | J  | 26             |    | 28                  |    | 14             | U  | 13,000         | D  | 13,000         | D  | 2,500          |     |         |  |
| Toluene                                                                        | 5                                             | 2.3            | J  | 1.6            | U  | 1.6            | U  | 1.6                 | U  | 1.6            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9            | U  | 1.9            | U  | 1.9            | U  | 1.9                 | U  | 1.9            | U  | 1.3            | J  | 2.8            | J  | 0.76           | J   |         |  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6            | U  | 1.6            | U  | 1.6            | U  | 1.6                 | U  | 1.6            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| Trichloroethene                                                                | 5                                             | 51             |    | 1.9            | U  | 2.7            | U  | 3.0                 | U  | 1.9            | U  | 390            |    | 600            | D  | 150            |     |         |  |
| Vinyl chloride                                                                 | 2                                             | 2.3            | U  | 2.3            | U  | 2.3            | U  | 2.3                 | U  | 2.3            | U  | 1.0            | U  | 0.20           | U  | 0.20           | U   |         |  |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |    | NA             |    | NA                  |    | NA             |    | NA             |    | NA             |    | NA             |     |         |  |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |    | NA             |    | NA                  |    | NA             |    | NA             |    | NA             |    | NA             |     |         |  |
| Total Xylenes                                                                  | 5                                             | 0.82           | U  | 0.82           | U  | 0.82           | U  | 0.82                | U  | 1.0            | U  | 0.20           | U  | 0.20           | U  | 0.10           | U   |         |  |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2010           |    |                |    |                |     | 2009           |     |                |    |                |    | 2008           |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|----|----------------|-----|----------------|-----|----------------|----|----------------|----|----------------|----|
|                                                                                |                                               | FSMW-2A        |    | FSMW-2A        |    | FSMW-2A        |     | FSMW-2A        |     | FSMW-2A        |    | FSMW-2A        |    | FSMW-2A        |    |
|                                                                                |                                               | Sep-10         |    | Jun-10         |    | Mar-10         |     | Dec-09         |     | Sep-09         |    | Jun-09         |    | Mar-09         |    |
|                                                                                |                                               | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs |     | 60-70 feet bgs |     | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs |    |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |    | (µg/L)         |     | (µg/L)         |     | (µg/L)         |    | (µg/L)         |    | (µg/L)         |    |
| Analyte                                                                        |                                               |                |    |                |    |                |     |                |     |                |    |                |    |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.17           | J  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U  | 0.10           | U* | 1.0            | U*  | 2.5            | U*  | 5              | U  | 5              | U  | 100            | U  |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U  | 0.10           | U* | 1.0            | U   | 2.5            | U*  | 5              | U  | 5              | U  | 100            | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U* |
| Acetone                                                                        | 50                                            | 0.55           | J  | 0.10           | U* | 7.10           | JB* | 7.1            | JB* | 5              | U  | 120            | JB | 10             | JB |
| Benzene                                                                        | 1                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Bromoform                                                                      | 50                                            | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Bromomethane                                                                   | 5                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Carbon disulfide                                                               | 60                                            | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Chlorobenzene                                                                  | 5                                             | 0.23           | J  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 1.8            | J  |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Chloroethane                                                                   | 5                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Chloroform                                                                     | 7                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Chloromethane                                                                  | 5                                             | 0.10           | U* | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 70             |    | 0.10           | U  | 56.00          | J   | 16             | J   | 13             |    | 5              | U  | 8.1            | J  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Methylene chloride                                                             | 5                                             | 0.19           | JB | 0.27           | JB | 9.0            | JB  | 14.0           | JB  | 110            | JB | 74             | JB | 10             | JB |
| Styrene                                                                        | 5                                             | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Tetrachloroethene                                                              | 5                                             | 14,000         | B  | 700            |    | 14,000         |     | 2,900          |     | 7,700          |    | 7,600          |    | 8,900          |    |
| Toluene                                                                        | 5                                             | 0.18           | J  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.5            | J  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U  | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| Trichloroethene                                                                | 5                                             | 350            | J  | 10             |    | 440            |     | 76             | J   | 230            |    | 190            | J  | 180            | J  |
| Vinyl chloride                                                                 | 2                                             | 0.10           | U* | 0.10           | U  | 1.0            | U   | 2.5            | U   | 5              | U  | 5              | U  | 100            | U  |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |    | NA             |     | NA             |     | NA             |    | NA             |    | NA             |    |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |    | NA             |     | NA             |     | NA             |    | NA             |    | NA             |    |
| Total Xylenes                                                                  | 5                                             | 0.10           | U  | 1.0            | U  | 2.5            | U   | 5              | U   | 5              | U  | 100            | U  | 10             | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2008           |    |                |    |                |   | 2007           |    |                |    |                |   |                |    |                     |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|----|----------------|---|----------------|----|----------------|----|----------------|---|----------------|----|---------------------|----|
|                                                                                |                                               | FSMW-2A        |    | FSMW-2A        |    | FSMW-2A        |   | FSMW-2A        |    | FSMW-2A        |    | FSMW-2A        |   | FSMW-2A        |    | FSMW-2A - Duplicate |    |
|                                                                                |                                               | Sep-08         |    | Jun-08         |    | Mar-08         |   | Dec-07         |    | Aug-07         |    | May-07         |   | May-07         |    | May-07              |    |
|                                                                                |                                               | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |    | 60-70 feet bgs      |    |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)              |    |
| Analyte                                                                        |                                               |                |    |                |    |                |   |                |    |                |    |                |   |                |    |                     |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 0.50           | U  | 1.0            | U  | 10             | U | 10             | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| 2-Hexanone                                                                     | 50                                            | 0.50           | U  | 1.0            | U  | 10             | U | 10             | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.50           | U  | 1.0            | U  | 10             | U | 10             | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Acetone                                                                        | 50                                            | 0.50           | U  | 1.0            | U  | 10             | U | 10             | U  | 0.10           | UJ | 0.10           | U | 1,000          | UJ | 1,000               | UJ |
| Benzene                                                                        | 1                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Bromodichloromethane                                                           | 50                                            | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Bromoform                                                                      | 50                                            | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Bromomethane                                                                   | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | UJ | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Carbon disulfide                                                               | 60                                            | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Carbon tetrachloride                                                           | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Chlorobenzene                                                                  | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Chlorobromomethane                                                             | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Chloroethane                                                                   | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Chloroform                                                                     | 7                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Chloromethane                                                                  | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | UJ | 1,000               | UJ |
| cis-1,2-Dichloroethene                                                         | 5                                             | 3.5            | J  | 16             | J  | 11             | J | 27             |    | 3.9            | J  | 3.9            | J | 1,000          | U  | 1,000               | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Ethylbenzene                                                                   | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Methylene chloride                                                             | 5                                             | 21             | JB | 10             | JB | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Styrene                                                                        | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Tetrachloroethene                                                              | 5                                             | 4,900          |    | 12,000         |    | 12,000         |   | 9,300          |    | 3,800          |    | 3,800          | B | 11,000         |    | 11,000              |    |
| Toluene                                                                        | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | U  | 1,000               | U  |
| Trichloroethene                                                                | 5                                             | 160            |    | 310            |    | 330            |   | 410            | J  | 120            |    | 100            | J | 230            | J  | 220                 | J  |
| Vinyl chloride                                                                 | 2                                             | 0.50           | U  | 1.0            | U  | 10             | U | 5              | U  | 0.10           | U  | 0.10           | U | 1,000          | UJ | 1,000               | UJ |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |    | NA             |   | NA             |    | NA             |    | NA             |   | NA             |    | NA                  |    |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |    | NA             |   | NA             |    | NA             |    | NA             |   | NA             |    | NA                  |    |
| Total Xylenes                                                                  | 5                                             | 1.0            | U  | 10             | U  | 5              | U | 0.10           | U  | 0.10           | U  | 1000.00        | U | 1,000          | U  | 200                 | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2007           |    | 2006           |    |                |   | 2018             |    |                  |   |                  |   | 2017             |   |                  |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|----|----------------|---|------------------|----|------------------|---|------------------|---|------------------|---|------------------|---|
|                                                                                |                                               | FSMW-2A        |    | FSMW-2A        |    | FSMW-2A        |   | FSMW-2B          |    | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B          |   |
|                                                                                |                                               | Feb-07         |    | Nov-06         |    | Aug-06         |   | Sep-18           |    | Jun-18           |   | Mar-18           |   | Dec-17           |   | Sep-17           |   |
|                                                                                |                                               | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs |   | 114-124 feet bgs |    | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs |   |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |    | (µg/L)         |   | (µg/L)           |    | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   |
| Analyte                                                                        |                                               |                |    |                |    |                |   |                  |    |                  |   |                  |   |                  |   |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.24             | U  | 0.24             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.37             | U  | 0.37             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 200            | U  | 10             | UJ | 200            | U | 0.43             | U  | 0.43             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.26             | U  | 0.26             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,1-Dichloroethene                                                             | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.12             | U  | 0.12             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 200            | U  | 10             | UJ | 200            | U | 0.43             | U  | 0.43             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 200            | U  | 10             | UJ | 200            | U | 0.35             | U  | 0.35             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 200            | U  | 10             | UJ | 200            | U | 1.9              | U  | 1.9              | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 2-Hexanone                                                                     | 50                                            | 200            | U  | 10             | UJ | 200            | U | 2.9              | U  | 2.9              | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 200            | U  | 10             | UJ | 200            | U | 2.7              | U  | 2.7              | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Acetone                                                                        | 50                                            | 200            | U  | 10             | UJ | 200            | U | 5                | U  | 5                | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Benzene                                                                        | 1                                             | 200            | U  | 10             | UJ | 200            | U | 0.43             | U  | 0.43             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Bromodichloromethane                                                           | 50                                            | 200            | U  | 10             | UJ | 200            | U | 0.34             | U  | 0.34             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Bromoform                                                                      | 50                                            | 200            | U  | 10             | UJ | 200            | U | 0.54             | U  | 0.54             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Bromomethane                                                                   | 5                                             | 200            | U  | 10             | UJ | 200            | U | 1                | U  | 1                | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Carbon disulfide                                                               | 60                                            | 200            | U  | 10             | UJ | 200            | U | 0.16             | U  | 0.16             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Carbon tetrachloride                                                           | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.21             | U  | 0.21             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Chlorobenzene                                                                  | 5                                             | 200            | U  | 0.8            | J  | 200            | U | 0.38             | U  | 0.38             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Chlorobromomethane                                                             | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.41             | UJ | 0.41             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Chloroethane                                                                   | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.32             | U  | 0.32             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Chloroform                                                                     | 7                                             | 200            | U  | 10             | UJ | 200            | U | 0.33             | U  | 0.33             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Chloromethane                                                                  | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.14             | UJ | 0.14             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 4.8            | J  | 4              | J  | 200            | U | 0.22             | U  | 0.22             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 200            | U  | 10             | UJ | 200            | U | 0.46             | U  | 0.46             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Ethylbenzene                                                                   | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.3              | U  | 0.3              | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Methylene chloride                                                             | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.32             | U  | 0.32             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Styrene                                                                        | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.42             | U  | 0.42             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Tetrachloroethene                                                              | 5                                             | 3,800          |    | 4,100          | J  | 2,500          |   | 0.62             | J+ | 0.71             | J | 1.1              | J | 1.5              | J | 0.84             | J |
| Toluene                                                                        | 5                                             | 200            | U  | 10             | UJ | 200            | U | 0.38             | U  | 0.38             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 200            | U  | 1              | J  | 200            | U | 0.24             | U  | 0.24             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 200            | U  | 10             | UJ | 200            | U | 0.49             | U  | 0.49             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Trichloroethene                                                                | 5                                             | 96             | J  | 140            | J  | 53             | J | 0.31             | U  | 0.31             | U | 0.10             | U | 0.30             | J | 0.24             | J |
| Vinyl chloride                                                                 | 2                                             | 200            | U  | 10             | UJ | 200            | U | 0.17             | U  | 0.17             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |    | NA             |   | NA               |    | 0.3              | U | NA               |   | NA               |   | NA               |   |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |    | NA             |   | NA               |    | 0.36             | U | NA               |   | NA               |   | NA               |   |
| Total Xylenes                                                                  | 5                                             | 10             | UJ | 200            | U  | 0.82           | U | 0.65             | U  | NA               |   | 0.10             | U | 0.10             | U | 0.10             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2017             |   |                  |   | 2016             |   |                  |   |                  |   |                  |   | 2015             |   |                  |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|---|------------------|---|------------------|---|------------------|---|------------------|---|------------------|---|------------------|---|
|                                                                                |                                               | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B          |   |
|                                                                                |                                               | Jun-17           |   | Mar-17           |   | Dec-16           |   | Sep-16           |   | Jun-16           |   | Apr-16           |   | Dec-15           |   | Oct-15           |   |
|                                                                                |                                               | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs |   |
|                                                                                |                                               | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   |
| Analyte                                                                        |                                               |                  |   |                  |   |                  |   |                  |   |                  |   |                  |   |                  |   |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 2.10             | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.50             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.90             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.70             | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 2.50             | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.83             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.70             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.50             | U |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.80             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.70             | U |
| Acetone                                                                        | 50                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.90             | U |
| Benzene                                                                        | 1                                             | 0.10             | U | 0.10             | U | 0.33             | J | 0.43             | J | 0.10             | U | 0.10             | U | 0.37             | J | 1.60             | U |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.50             | U |
| Bromoform                                                                      | 50                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 5.0              | U |
| Bromomethane                                                                   | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 4.30             | U |
| Carbon disulfide                                                               | 60                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 2.10             | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 2.0              | U |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.60             | U |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.70             | U |
| Chloroethane                                                                   | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 2.50             | U |
| Chloroform                                                                     | 7                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.90             | U |
| Chloromethane                                                                  | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 2.30             | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.80             | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.40             | U |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.60             | U |
| Methylene chloride                                                             | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.30             | U |
| Styrene                                                                        | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.70             | U |
| Tetrachloroethene                                                              | 5                                             | 1.7              | J | 1.3              | J | 1.4              | J | 1.2              | J | 2.1              | J | 2.5              | J | 3.0              |   | 3.6              | J |
| Toluene                                                                        | 5                                             | 0.10             | U | 0.10             | U | 0.39             | J | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.60             | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.90             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 1.60             | U |
| Trichloroethene                                                                | 5                                             | 0.10             | U | 0.21             | J | 0.18             | J | 0.10             | U | 0.16             | J | 0.10             | U | 0.20             | J | 1.90             | U |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 2.30             | U |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   |
| Total Xylenes                                                                  | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.10             | U | 0.82             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2015             |   |                  |    | 2014             |    |                  |   |                  |   | 2013             |    |                     |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|----|------------------|----|------------------|---|------------------|---|------------------|----|---------------------|----|
|                                                                                |                                               | FSMW-2B          |   | FSMW-2B          |    | FSMW-2B          |    | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B          |    | FSMW-2B - Duplicate |    |
|                                                                                |                                               | Jul-15           |   | Mar-15           |    | Dec-14           |    | Sep-14           |   | Jun-14           |   | Mar-14           |    | Oct-13              |    |
|                                                                                |                                               | 114-124 feet bgs |   | 114-124 feet bgs |    | 114-124 feet bgs |    | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs |    | 114-124 feet bgs    |    |
|                                                                                |                                               | (µg/L)           |   | (µg/L)           |    | (µg/L)           |    | (µg/L)           |   | (µg/L)           |   | (µg/L)           |    | (µg/L)              |    |
| Analyte                                                                        |                                               |                  |   |                  |    |                  |    |                  |   |                  |   |                  |    |                     |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1              | U | 0.10             | U  | 2.10             | U  | 2.1              | U | 2.1              | U | 2.1              | U  | 2.1                 | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5              | U | 0.10             | U  | 1.50             | U  | 1.5              | U | 1.5              | U | 1.5              | U  | 1.5                 | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9              | U | 0.10             | U  | 1.90             | U  | 1.9              | U | 1.9              | U | 1.9              | U  | 1.9                 | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7              | U | 0.10             | UJ | 1.70             | U  | 1.7              | U | 1.7              | U | 1.7              | U  | 1.7                 | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5              | U | 0.10             | U  | 2.50             | U  | 2.5              | U | 2.5              | U | 2.5              | U  | 2.5                 | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83             | U | 0.10             | UJ | 0.83             | U  | 0.83             | U | 0.83             | U | 0.83             | U  | 0.83                | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7              | U | 0.10             | U  | 1.70             | U  | 1.7              | U | 1.7              | U | 1.7              | U  | 1.7                 | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5              | U | 0.10             | U  | 1.50             | UJ | 1.5              | U | 1.5              | U | 1.5              | U  | 1.5                 | U  |
| 2-Hexanone                                                                     | 50                                            | 1.8              | U | 0.10             | U  | 1.80             | UJ | 1.8              | U | 1.8              | U | 1.8              | U  | 1.8                 | UJ |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7              | U | 0.10             | U  | 1.70             | U  | 1.7              | U | 1.7              | U | 1.7              | U  | 1.7                 | U  |
| Acetone                                                                        | 50                                            | 1.9              | U | 0.10             | U  | 1.90             | UJ | 1.9              | U | 1.9              | U | 1.9              | U  | 2.1                 | UJ |
| Benzene                                                                        | 1                                             | 1.6              | U | 1.0              |    | 1.6              | U  | 1.6              | U | 1.6              | U | 1.6              | U  | 1.6                 | U  |
| Bromodichloromethane                                                           | 50                                            | 1.5              | U | 0.10             | U  | 1.50             | U  | 1.5              | U | 1.5              | U | 1.5              | U  | 1.5                 | U  |
| Bromoform                                                                      | 50                                            | 5.0              | U | 0.10             | U  | 5.0              | U  | 5.0              | U | 5.0              | U | 5.0              | U  | 5.0                 | U  |
| Bromomethane                                                                   | 5                                             | 4.3              | U | 0.10             | U  | 4.30             | U  | 4.3              | U | 4.3              | U | 4.3              | UJ | 4.3                 | U  |
| Carbon disulfide                                                               | 60                                            | 2.1              | U | 0.10             | U  | 2.10             | U  | 2.1              | U | 2.1              | U | 2.1              | U  | 2.1                 | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0              | U | 0.10             | U  | 2.0              | U  | 2.0              | U | 2.0              | U | 2.0              | U  | 2.0                 | U  |
| Chlorobenzene                                                                  | 5                                             | 1.6              | U | 0.10             | U  | 1.60             | U  | 1.6              | U | 1.6              | U | 1.6              | U  | 1.6                 | U  |
| Chlorobromomethane                                                             | 5                                             | 1.7              | U | 0.10             | U  | 1.70             | U  | 1.7              | U | 1.7              | U | 1.7              | U  | 1.7                 | U  |
| Chloroethane                                                                   | 5                                             | 2.5              | U | 0.10             | U  | 2.50             | U  | 2.5              | U | 2.5              | U | 2.5              | U  | 2.5                 | UJ |
| Chloroform                                                                     | 7                                             | 1.9              | U | 0.10             | U  | 1.90             | U  | 1.9              | U | 1.9              | U | 1.9              | U  | 1.9                 | U  |
| Chloromethane                                                                  | 5                                             | 2.3              | U | 0.10             | U  | 2.30             | U  | 2.3              | U | 2.3              | U | 2.3              | U  | 2.3                 | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8              | U | 0.11             | J  | 1.80             | U  | 1.8              | U | 1.8              | U | 1.8              | U  | 1.8                 | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4              | U | 0.10             | U  | 1.40             | U  | 1.4              | U | 1.4              | U | 1.4              | U  | 1.4                 | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6              | U | 0.10             | U  | 1.60             | U  | 1.6              | U | 1.6              | U | 1.6              | U  | 1.6                 | U  |
| Methylene chloride                                                             | 5                                             | 1.3              | U | 0.10             | U  | 1.30             | U  | 1.3              | U | 1.3              | U | 1.3              | U  | 1.3                 | U  |
| Styrene                                                                        | 5                                             | 1.7              | U | 0.10             | U  | 1.70             | U  | 1.7              | U | 1.7              | U | 1.7              | U  | 1.7                 | U  |
| Tetrachloroethene                                                              | 5                                             | 5.8              | J | 5.4              |    | 4.0              | J  | 4.2              | J | 5.1              | J | 6.1              | J  | 3.5                 | U  |
| Toluene                                                                        | 5                                             | 1.6              | U | 0.10             | U  | 1.60             | U  | 1.6              | U | 1.6              | U | 1.6              | U  | 1.6                 | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9              | U | 0.10             | U  | 1.90             | U  | 1.9              | U | 1.9              | U | 1.9              | U  | 1.9                 | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6              | U | 0.10             | U  | 1.60             | U  | 1.6              | U | 1.6              | U | 1.6              | U  | 1.6                 | U  |
| Trichloroethene                                                                | 5                                             | 1.9              | U | 0.19             | J  | 1.90             | U  | 1.9              | U | 1.9              | U | 1.9              | U  | 1.9                 | U  |
| Vinyl chloride                                                                 | 2                                             | 2.3              | U | 0.10             | U  | 2.30             | U  | 2.3              | U | 2.3              | U | 2.3              | U  | 2.3                 | U  |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |    | NA               |    | NA               |   | NA               |   | NA               |    | NA                  |    |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |    | NA               |    | NA               |   | NA               |   | NA               |    | NA                  |    |
| Total Xylenes                                                                  | 5                                             | 0.94             | J | 0.82             | U  | 0.82             | U  | 0.82             | U | 0.82             | U | 0.82             | U  | 0.82                | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2013             |   | 2012             |    |                  |    | 2011             |    |                  |    |                  |    | 2010             |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|----|------------------|----|------------------|----|------------------|----|------------------|----|------------------|----|
|                                                                                |                                               | FSMW-2B          |   | FSMW-2B          |    | FSMW-2B          |    | FSMW-2B          |    | FSMW-2B          |    | FSMW-2B          |    | FSMW-2B          |    |
|                                                                                |                                               | Jul-13           |   | Nov-12           |    | Jul-12           |    | Apr-12           |    | Dec-11           |    | Jul-11           |    | Mar-11           |    |
|                                                                                |                                               | 114-124 feet bgs |   | 114-124 feet bgs |    | 114-124 feet bgs |    | 114-124 feet bgs |    | 114-124 feet bgs |    | 114-124 feet bgs |    | 114-124 feet bgs |    |
|                                                                                |                                               | (µg/L)           |   | (µg/L)           |    | (µg/L)           |    | (µg/L)           |    | (µg/L)           |    | (µg/L)           |    | (µg/L)           |    |
| Analyte                                                                        |                                               |                  |   |                  |    |                  |    |                  |    |                  |    |                  |    |                  |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1              | U | 2.1              | U  | 2.1              | U  | 2.1              | U  | 2.1              | U  | 0.10             | U  | 0.10             | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5              | U | 1.5              | U  | 1.5              | U  | 1.5              | U  | 1.5              | U  | 0.10             | U  | 0.10             | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9              | U | 1.9              | U  | 1.9              | U  | 1.9              | U  | 1.9              | U  | 0.10             | U  | 0.10             | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7              | U | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7              | U  | 0.10             | U  | 0.10             | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5              | U | 2.5              | UJ | 2.5              | U  | 2.5              | U  | 2.5              | U  | 0.10             | U  | 0.10             | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83             | U | 0.83             | U  | 0.83             | U  | 0.83             | U  | 0.83             | U  | 0.10             | U  | 0.10             | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7              | U | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7              | U  | 0.10             | U  | 0.10             | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5              | U | 1.5              | U  | 1.5              | UJ | 1.5              | U  | 1.5              | UJ | 0.10             | UJ | 0.10             | U  |
| 2-Hexanone                                                                     | 50                                            | 1.8              | U | 1.8              | U  | 1.8              | U  | 1.8              | U  | 1.8              | UJ | 0.10             | U  | 0.10             | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7              | U | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7              | U  | 0.10             | U  | 0.10             | U  |
| Acetone                                                                        | 50                                            | 1.9              | U | 1.9              | U  | 1.9              | UJ | 1.9              | U  | 1.9              | UJ | 0.72             | UJ | 0.26             | UJ |
| Benzene                                                                        | 1                                             | 1.6              | U | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6              | U  | 0.96             | J  | 1.2              | J  |
| Bromodichloromethane                                                           | 50                                            | 1.5              | U | 1.5              | U  | 1.5              | U  | 1.5              | U  | 1.5              | U  | 0.10             | U  | 0.10             | U  |
| Bromoform                                                                      | 50                                            | 5.0              | U | 5.0              | UJ | 5.0              | U  | 5.0              | U  | 5.0              | U  | 0.10             | U  | 0.10             | U  |
| Bromomethane                                                                   | 5                                             | 4.3              | U | 4.3              | UJ | 4.3              | U  | 4.3              | UJ | 4.3              | U  | 0.10             | U  | 0.10             | U  |
| Carbon disulfide                                                               | 60                                            | 2.1              | U | 2.1              | U  | 2.1              | U  | 2.1              | U  | 2.1              | U  | 0.10             | U  | 0.31             | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0              | U | 2.0              | U  | 2.0              | U  | 2.0              | U  | 2.0              | U  | 0.10             | U  | 0.10             | U  |
| Chlorobenzene                                                                  | 5                                             | 1.6              | U | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6              | U  | 0.10             | U  | 0.10             | U  |
| Chlorobromomethane                                                             | 5                                             | 1.7              | U | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7              | U  | 0.10             | U  | 0.10             | U  |
| Chloroethane                                                                   | 5                                             | 2.5              | U | 2.5              | U  | 2.5              | U  | 2.5              | U  | 2.5              | U  | 0.10             | U  | 0.10             | UJ |
| Chloroform                                                                     | 7                                             | 1.9              | U | 1.9              | U  | 1.9              | U  | 1.9              | U  | 1.9              | U  | 0.10             | U  | 0.10             | U  |
| Chloromethane                                                                  | 5                                             | 2.3              | U | 2.3              | U  | 2.3              | U  | 2.3              | U  | 2.3              | U  | 0.10             | U  | 0.10             | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8              | U | 1.8              | U  | 1.8              | U  | 1.8              | U  | 1.8              | U  | 0.10             | U  | 0.10             | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4              | U | 1.4              | U  | 1.4              | U  | 1.4              | U  | 1.4              | U  | 0.10             | U  | 0.10             | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6              | U | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6              | U  | 0.10             | U  | 0.10             | U  |
| Methylene chloride                                                             | 5                                             | 1.3              | U | 1.3              | U  | 1.3              | U  | 1.3              | U  | 1.3              | U  | 0.41             | U  | 0.34             | U  |
| Styrene                                                                        | 5                                             | 1.7              | U | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7              | U  | 0.10             | U  | 0.10             | U  |
| Tetrachloroethene                                                              | 5                                             | 4.2              | J | 2.7              | U  | 2.8              | J  | 4.7              | J  | 12               | U  | 3.9              | J  | 13               | J  |
| Toluene                                                                        | 5                                             | 1.6              | U | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6              | U  | 0.10             | U  | 0.10             | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9              | U | 1.9              | U  | 1.9              | U  | 1.9              | U  | 1.9              | U  | 0.10             | U  | 0.10             | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6              | U | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6              | U  | 0.10             | U  | 0.10             | U  |
| Trichloroethene                                                                | 5                                             | 1.9              | U | 1.9              | U  | 1.9              | U  | 1.9              | U  | 1.9              | U  | 0.10             | U  | 0.21             | J  |
| Vinyl chloride                                                                 | 2                                             | 2.3              | U | 2.3              | U  | 2.3              | U  | 2.3              | U  | 2.3              | U  | 0.10             | U  | 0.10             | U  |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |    | NA               |    | NA               |    | NA               |    | NA               |    | NA               |    |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |    | NA               |    | NA               |    | NA               |    | NA               |    | NA               |    |
| Total Xylenes                                                                  | 5                                             | 0.82             | U | 0.82             | U  | 0.82             | U  | 0.82             | U  | 0.20             | J  | 0.29             | J  | 1.4              | J  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2010             |    |                     |    |                  |     | 2009             |     |                  |    |                  |    | 2008             |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|---------------------|----|------------------|-----|------------------|-----|------------------|----|------------------|----|------------------|---|
|                                                                                |                                               | FSMW-2B          |    | FSMW-2B - Duplicate |    | FSMW-2B          |     | FSMW-2B          |     | FSMW-2B          |    | FSMW-2B          |    | FSMW-2B          |   |
|                                                                                |                                               | Sep-10           |    | Sep-10              |    | Mar-10           |     | Dec-09           |     | Sep-09           |    | Jun-09           |    | Mar-09           |   |
|                                                                                |                                               | 114-124 feet bgs |    | 114-124 feet bgs    |    | 114-124 feet bgs |     | 114-124 feet bgs |     | 114-124 feet bgs |    | 114-124 feet bgs |    | 114-124 feet bgs |   |
|                                                                                |                                               | (µg/L)           |    | (µg/L)              |    | (µg/L)           |     | (µg/L)           |     | (µg/L)           |    | (µg/L)           |    | (µg/L)           |   |
| Analyte                                                                        |                                               |                  |    |                     |    |                  |     |                  |     |                  |    |                  |    |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U  | 0.10                | U  | 0.10             | U*  | 0.10             | U*  | 0.10             | U  | 0.10             | U  | 10               | U |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U  | 0.10                | U  | 0.10             | U*  | 0.10             | U*  | 0.10             | U  | 0.10             | U  | 10               | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Acetone                                                                        | 50                                            | 0.84             | J  | 0.77                | J  | 0.46             | JB* | 1.1              | JB* | 0.4              | JB | 0.45             | JB | 10               | U |
| Benzene                                                                        | 1                                             | 2.3              | J  | 2.4                 | J  | 1.3              | J   | 0.43             | J   | 0.10             | U  | 0.10             | U  | 10               | U |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Bromoform                                                                      | 50                                            | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Bromomethane                                                                   | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U*  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Carbon disulfide                                                               | 60                                            | 0.10             | U  | 0.10                | U  | 0.20             | JB  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Chloroethane                                                                   | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Chloroform                                                                     | 7                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Chloromethane                                                                  | 5                                             | 0.10             | U* | 0.10                | U* | 0.10             | U*  | 0.12             | J   | 0.10             | U  | 0.10             | U  | 10               | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Methylene chloride                                                             | 5                                             | 0.19             | JB | 0.19                | JB | 0.40             | JB  | 0.51             | JB  | 0.38             | JB | 0.39             | JB | 10               | U |
| Styrene                                                                        | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Tetrachloroethene                                                              | 5                                             | 37               |    | 5.5                 | J  | 4.0              | J   | 3.2              | J   | 2.7              | J  | 4.4              | J  | 5.1              | J |
| Toluene                                                                        | 5                                             | 0.11             | J  | 0.94                | J  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Trichloroethene                                                                | 5                                             | 0.33             | J  | 0.10                | U  | 0.10             | U   | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U* | 0.10                | U* | 0.10             | U*  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 10               | U |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA                  |    | NA               |     | NA               |     | NA               |    | NA               |    | NA               |   |
| o-Xylene                                                                       | 5                                             | NA               |    | NA                  |    | NA               |     | NA               |     | NA               |    | NA               |    | NA               |   |
| Total Xylenes                                                                  | 5                                             | 0.78             | J  | 0.68                | J  | 0.30             | J   | 0.10             | U   | 0.10             | U  | 10               | U  | 0.10             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2008             |   |                  |   |                  |   |                     |   | 2007             |    |                  |    |                  |    |                  |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|---|------------------|---|---------------------|---|------------------|----|------------------|----|------------------|----|------------------|----|
|                                                                                |                                               | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B          |   | FSMW-2B - Duplicate |   | FSMW-2B          |    | FSMW-2B          |    | FSMW-2B          |    | FSMW-2B          |    |
|                                                                                |                                               | Sep-08           |   | Jun-08           |   | Mar-08           |   | Mar-08              |   | Dec-07           |    | Aug-07           |    | May-07           |    | Feb-07           |    |
|                                                                                |                                               | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs |   | 114-124 feet bgs    |   | 114-124 feet bgs |    | 114-124 feet bgs |    | 114-124 feet bgs |    | 114-124 feet bgs |    |
|                                                                                |                                               | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)              |   | (µg/L)           |    | (µg/L)           |    | (µg/L)           |    | (µg/L)           |    |
| Analyte                                                                        |                                               |                  |   |                  |   |                  |   |                     |   |                  |    |                  |    |                  |    |                  |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 10               | U  | 0.10             | U  | 10               | U  | 10               | U  |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 10               | U  | 0.10             | U  | 10               | U  | 10               | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 10               | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Acetone                                                                        | 50                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 10               | U  | 0.10             | UJ | 10               | UJ | 10               | U  |
| Benzene                                                                        | 1                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Bromoform                                                                      | 50                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Bromomethane                                                                   | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | UJ | 0.10             | U  | 10               | U  | 10               | U  |
| Carbon disulfide                                                               | 60                                            | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Chloroethane                                                                   | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Chloroform                                                                     | 7                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Chloromethane                                                                  | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | UJ | 10               | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Methylene chloride                                                             | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Styrene                                                                        | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Tetrachloroethene                                                              | 5                                             | 3.9              | J | 4.7              | J | 5.1              |   | 4.4                 | J | 13               |    | 2.1              | J  | 2.0              | J  | 4.6              | J  |
| Toluene                                                                        | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 7.0              |    | 10.0             | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Trichloroethene                                                                | 5                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | U  | 10               | U  |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U | 0.10             | U | 0.10             | U | 0.10                | U | 5                | U  | 0.10             | U  | 10               | UJ | 10               | U  |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |   | NA               |   | NA                  |   | NA               |    | NA               |    | NA               |    | NA               |    |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |   | NA               |   | NA                  |   | NA               |    | NA               |    | NA               |    | NA               |    |
| Total Xylenes                                                                  | 5                                             | 0.10             | U | 0.10             | U | 5                | U | 0.10                | U | 0.10             | U  | 10               | U  | 10               | U  | 10               | UJ |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2006             |    |                  |    | 2018           |   | 2016           |    | 2015           |   | 2014           |   | 2013           |    | 2012           |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|------------------|----|----------------|---|----------------|----|----------------|---|----------------|---|----------------|----|----------------|----|
|                                                                                |                                               | FSMW-2B          |    | FSMW-2B          |    | FSMW-3A        |   | FSMW-3A        |    | FSMW-3A        |   | FSMW-3A        |   | FSMW-3A        |    | FSMW-3A        |    |
|                                                                                |                                               | Nov-06           |    | Aug-06           |    | Mar-18         |   | Dec-16         |    | Sep-15         |   | Oct-14         |   | Oct-13         |    | Nov-12         |    |
|                                                                                |                                               | 114-124 feet bgs |    | 114-124 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |    | 60-70 feet bgs |    |
|                                                                                |                                               | (µg/L)           |    | (µg/L)           |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |   | (µg/L)         |   | (µg/L)         |    | (µg/L)         |    |
| Analyte                                                                        |                                               |                  |    |                  |    |                |   |                |    |                |   |                |   |                |    |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 2.10           | U | 2.1            | U | 2.1            | U  | 2.1            | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.50           | U | 1.5            | U | 1.5            | U  | 1.5            | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.90           | U | 1.9            | U | 1.9            | U  | 1.9            | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.70           | U | 1.7            | U | 1.7            | U  | 1.7            | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 2.50           | U | 2.5            | U | 2.5            | U  | 2.5            | UJ |
| 1,2-Dichloroethane                                                             | 0.6                                           | 10               | UJ | 10               | UJ | 0.10           | U | 0.10           | U  | 0.83           | U | 0.83           | U | 0.83           | U  | 0.83           | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.70           | U | 1.7            | U | 1.7            | U  | 1.7            | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 10               | UJ | 10               | UJ | 0.10           | U | 0.10           | UJ | 1.50           | U | 1.5            | U | 1.5            | U  | 1.5            | U  |
| 2-Hexanone                                                                     | 50                                            | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.80           | U | 1.8            | U | 1.8            | U  | 1.8            | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.70           | U | 1.7            | U | 1.7            | U  | 1.7            | U  |
| Acetone                                                                        | 50                                            | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | UJ | 1.90           | U | 1.9            | U | 1.9            | U  | 1.9            | U  |
| Benzene                                                                        | 1                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.60           | U | 1.6            | U | 1.6            | U  | 1.6            | U  |
| Bromodichloromethane                                                           | 50                                            | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.50           | U | 1.5            | U | 1.5            | U  | 1.5            | U  |
| Bromoform                                                                      | 50                                            | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 5.0            | U | 5.0            | U | 5.0            | U  | 5.0            | UJ |
| Bromomethane                                                                   | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 4.30           | U | 4.3            | U | 4.3            | UJ | 4.3            | UJ |
| Carbon disulfide                                                               | 60                                            | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 2.10           | U | 2.1            | U | 2.1            | U  | 2.1            | U  |
| Carbon tetrachloride                                                           | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 2.0            | U | 2.0            | U | 2.0            | U  | 2.0            | U  |
| Chlorobenzene                                                                  | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.60           | U | 1.6            | U | 1.6            | U  | 1.6            | U  |
| Chlorobromomethane                                                             | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.70           | U | 1.7            | U | 1.7            | U  | 1.7            | U  |
| Chloroethane                                                                   | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 2.50           | U | 2.5            | U | 2.5            | U  | 2.5            | U  |
| Chloroform                                                                     | 7                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.90           | U | 1.9            | U | 1.9            | U  | 1.9            | U  |
| Chloromethane                                                                  | 5                                             | 10               | UJ | 10               | U  | 0.35           | J | 0.10           | UJ | 2.30           | U | 2.3            | U | 2.3            | U  | 2.3            | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 10               | UJ | 10               | U  | 22             |   | 0.75           | J  | 1.8            | U | 1.8            | U | 1.8            | U  | 1.8            | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.40           | U | 1.4            | U | 1.4            | U  | 1.4            | U  |
| Ethylbenzene                                                                   | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.60           | U | 1.6            | U | 1.6            | U  | 1.6            | U  |
| Methylene chloride                                                             | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.30           | U | 1.3            | U | 1.3            | U  | 1.3            | U  |
| Styrene                                                                        | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.70           | U | 1.7            | U | 1.7            | U  | 1.7            | U  |
| Tetrachloroethene                                                              | 5                                             | 3                | J  | 10               | U  | 32             |   | 3.5            | J  | 3.9            | J | 2.1            | U | 2.1            | U  | 5.4            | J  |
| Toluene                                                                        | 5                                             | 10               | UJ | 10               | U  | 0.75           | J | 6.4            | J  | 1.6            | U | 1.6            | U | 1.6            | U  | 2.8            | J  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.90           | U | 1.9            | U | 1.9            | U  | 1.9            | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 1.60           | U | 1.6            | U | 1.6            | U  | 1.6            | U  |
| Trichloroethene                                                                | 5                                             | 10               | UJ | 10               | U  | 17             |   | 0.71           | J  | 1.9            | U | 1.9            | U | 1.9            | U  | 1.9            | U  |
| Vinyl chloride                                                                 | 2                                             | 10               | UJ | 10               | U  | 0.10           | U | 0.10           | U  | 2.30           | U | 2.3            | U | 2.3            | U  | 2.3            | U  |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA               |    | NA             |   | NA             |    | NA             |   | NA             |   | NA             |    | NA             |    |
| o-Xylene                                                                       | 5                                             | NA               |    | NA               |    | NA             |   | NA             |    | NA             |   | NA             |   | NA             |    | NA             |    |
| Total Xylenes                                                                  | 5                                             | 10               | U  | 0.82             | U  | 0.10           | U | 0.10           | U  | 0.82           | U | 0.82           | U | 0.82           | U  | 0.10           | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2010           |           | 2009           |           | 2008           |          | 2007           |          | 2006           |          | 2018             |   | 2016             |          | 2015             |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|-----------|----------------|-----------|----------------|----------|----------------|----------|----------------|----------|------------------|---|------------------|----------|------------------|---|
|                                                                                |                                               | FSMW-3A        |           | FSMW-3A        |           | FSMW-3A        |          | FSMW-3A        |          | FSMW-3A        |          | FSMW-3B          |   | FSMW-3B          |          | FSMW-3B          |   |
|                                                                                |                                               | Sep-10         |           | Sep-09         |           | Sep-08         |          | Aug-07         |          | Aug-06         |          | Mar-18           |   | Dec-16           |          | Sep-15           |   |
|                                                                                |                                               | 60-70 feet bgs |           | 60-70 feet bgs |           | 60-70 feet bgs |          | 60-70 feet bgs |          | 60-70 feet bgs |          | 135-145 feet bgs |   | 135-145 feet bgs |          | 135-145 feet bgs |   |
|                                                                                |                                               | (µg/L)         |           | (µg/L)         |           | (µg/L)         |          | (µg/L)         |          | (µg/L)         |          | (µg/L)           |   | (µg/L)           |          | (µg/L)           |   |
| Analyte                                                                        |                                               |                |           |                |           |                |          |                |          |                |          |                  |   |                  |          |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 2.10             | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.50             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.90             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.70             | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 2.50             | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 0.83             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.70             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U         | 0.10           | U*        | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | UJ       | 1.50             | U |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U         | 0.10           | U*        | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.80             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.70             | U |
| Acetone                                                                        | 50                                            | <b>1.1</b>     | <b>J</b>  | 0.10           | U*        | 0.10           | U        | 0.10           | U        | 200            | U        | 2.2              | U | 0.10             | UJ       | 1.90             | U |
| Benzene                                                                        | 1                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.60             | U |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.50             | U |
| Bromoform                                                                      | 50                                            | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 5.0              | U |
| Bromomethane                                                                   | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 4.30             | U |
| Carbon disulfide                                                               | 60                                            | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 2.10             | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 2.0              | U |
| Chlorobenzene                                                                  | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | <b>0.58</b>    | <b>J</b> | 200            | U        | 0.10             | U | 0.10             | U        | 1.60             | U |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.70             | U |
| Chloroethane                                                                   | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 2.50             | U |
| Chloroform                                                                     | 7                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.90             | U |
| Chloromethane                                                                  | 5                                             | 0.10           | U*        | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | UJ       | 2.30             | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>0.24</b>    | <b>J</b>  | <b>0.21</b>    | <b>J</b>  | <b>1.1</b>     | <b>J</b> | <b>12</b>      |          | 200            | U        | 0.10             | U | 0.10             | U        | 1.80             | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.40             | U |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.60             | U |
| Methylene chloride                                                             | 5                                             | <b>0.20</b>    | <b>JB</b> | <b>0.40</b>    | <b>JB</b> | 0.10           | U        | 0.10           | U        | 200            | U        | 0.44             | U | 0.10             | U        | 1.30             | U |
| Styrene                                                                        | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.70             | U |
| Tetrachloroethene                                                              | 5                                             | <b>25</b>      |           | <b>46</b>      |           | <b>210</b>     |          | <b>2,900</b>   |          | <b>2,600</b>   |          | 0.10             | U | <b>0.57</b>      | <b>J</b> | 2.1              | U |
| Toluene                                                                        | 5                                             | <b>0.10</b>    | <b>J</b>  | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | <b>0.51</b>      | <b>J</b> | 1.6              | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.90             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U         | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 1.60             | U |
| Trichloroethene                                                                | 5                                             | <b>2.1</b>     | <b>J</b>  | <b>1.1</b>     | <b>J</b>  | <b>4.6</b>     | <b>J</b> | <b>100</b>     |          | <b>81</b>      | <b>J</b> | 0.10             | U | <b>0.88</b>      | <b>J</b> | 1.9              | U |
| Vinyl chloride                                                                 | 2                                             | 0.10           | U*        | 0.10           | U         | 0.10           | U        | 0.10           | U        | 200            | U        | 0.10             | U | 0.10             | U        | 2.30             | U |
| m+p Xylene                                                                     | 5                                             | NA             |           | NA             |           | NA             |          | NA             |          | NA             |          | NA               |   | NA               |          | NA               |   |
| o-Xylene                                                                       | 5                                             | NA             |           | NA             |           | NA             |          | NA             |          | NA             |          | NA               |   | NA               |          | NA               |   |
| Total Xylenes                                                                  | 5                                             | 0.10           | U         | 0.10           | U         | 0.10           | U        | 200            | U        | 0.82           | U        | 0.10             | U | 0.10             | U        | 0.82             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2014             |   | 2013             |    | 2010             |           | 2009             |           | 2008             |           |                     |           | 2007             |          | 2006             |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|----|------------------|-----------|------------------|-----------|------------------|-----------|---------------------|-----------|------------------|----------|------------------|----|
|                                                                                |                                               | FSMW-3B          |   | FSMW-3B          |    | FSMW-3B          |           | FSMW-3B          |           | FSMW-3B          |           | FSMW-3B - Duplicate |           | FSMW-3B          |          | FSMW-3B          |    |
|                                                                                |                                               | Oct-14           |   | Oct-13           |    | Sep-10           |           | Sep-09           |           | Sep-08           |           | Sep-08              |           | Aug-07           |          | Aug-06           |    |
|                                                                                |                                               | 135-145 feet bgs |   | 135-145 feet bgs |    | 135-145 feet bgs |           | 135-145 feet bgs |           | 135-145 feet bgs |           | 135-145 feet bgs    |           | 135-145 feet bgs |          | 135-145 feet bgs |    |
|                                                                                |                                               | (µg/L)           |   | (µg/L)           |    | (µg/L)           |           | (µg/L)           |           | (µg/L)           |           | (µg/L)              |           | (µg/L)           |          | (µg/L)           |    |
| Analyte                                                                        |                                               |                  |   |                  |    |                  |           |                  |           |                  |           |                     |           |                  |          |                  |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1              | U | 2.1              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5              | U | 1.5              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9              | U | 1.9              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7              | U | 1.7              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5              | U | 2.5              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83             | U | 0.83             | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7              | U | 1.7              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5              | U | 1.5              | U  | 0.10             | U         | 0.10             | U*        | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| 2-Hexanone                                                                     | 50                                            | 1.8              | U | 1.8              | U  | 0.10             | U         | 0.10             | U*        | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7              | U | 1.7              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Acetone                                                                        | 50                                            | 1.9              | U | 1.9              | U  | <b>1.1</b>       | <b>J</b>  | 0.10             | U*        | 0.10             | U         | 0.10                | U*        | 0.10             | U        | 10               | U  |
| Benzene                                                                        | 1                                             | 1.6              | U | 1.6              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Bromodichloromethane                                                           | 50                                            | 1.5              | U | 1.5              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Bromoform                                                                      | 50                                            | 5.0              | U | 5.0              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Bromomethane                                                                   | 5                                             | 4.3              | U | 4.3              | UJ | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | UJ |
| Carbon disulfide                                                               | 60                                            | 2.1              | U | 2.1              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0              | U | 2.0              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | UJ |
| Chlorobenzene                                                                  | 5                                             | 1.6              | U | 1.6              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Chlorobromomethane                                                             | 5                                             | 1.7              | U | 1.7              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Chloroethane                                                                   | 5                                             | 2.5              | U | 2.5              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | UJ |
| Chloroform                                                                     | 7                                             | 1.9              | U | 1.9              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Chloromethane                                                                  | 5                                             | 2.3              | U | 2.3              | U  | <b>0.18</b>      | <b>J*</b> | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8              | U | 1.8              | U  | <b>0.19</b>      | <b>J</b>  | <b>0.26</b>      | <b>J</b>  | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4              | U | 1.4              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6              | U | 1.6              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Methylene chloride                                                             | 5                                             | 1.3              | U | 1.3              | U  | <b>0.27</b>      | <b>JB</b> | <b>0.38</b>      | <b>JB</b> | <b>0.30</b>      | <b>JB</b> | <b>0.60</b>         | <b>JB</b> | 0.10             | U        | 10               | U  |
| Styrene                                                                        | 5                                             | 1.7              | U | 1.7              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Tetrachloroethene                                                              | 5                                             | 2.1              | U | 2.1              | U  | <b>0.64</b>      | <b>J</b>  | <b>2.2</b>       | <b>J</b>  | 0.10             | U         | 0.10                | U         | <b>3.80</b>      | <b>J</b> | 10               | U  |
| Toluene                                                                        | 5                                             | 1.6              | U | 1.6              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9              | U | 1.9              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6              | U | 1.6              | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| Trichloroethene                                                                | 5                                             | 1.9              | U | 1.9              | U  | <b>1.7</b>       | <b>J</b>  | <b>2.3</b>       | <b>J</b>  | <b>0.97</b>      | <b>J</b>  | <b>0.54</b>         | <b>J</b>  | 0.10             | U        | 10               | U  |
| Vinyl chloride                                                                 | 2                                             | 2.3              | U | 2.3              | U  | 0.10             | U*        | 0.10             | U         | 0.10             | U         | 0.10                | U         | 0.10             | U        | 10               | U  |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |    | NA               |           | NA               |           | NA               |           | NA                  |           | NA               |          | NA               |    |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |    | NA               |           | NA               |           | NA               |           | NA                  |           | NA               |          | NA               |    |
| Total Xylenes                                                                  | 5                                             | 0.82             | U | 0.10             | U  | 0.10             | U         | 0.10             | U         | 0.10             | U         | 0.10                | U         | 10.00            | U        | 82               | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2018           |          |                |          |                |          |                     |          | 2017           |          |                |          |                |          |                     |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----------|----------------|----------|----------------|----------|---------------------|----------|----------------|----------|----------------|----------|----------------|----------|---------------------|----------|
|                                                                                |                                               | FSMW-4A        |          | FSMW-4A        |          | FSMW-4A        |          | FSMW-4A - Duplicate |          | FSMW-4A        |          | FSMW-4A        |          | FSMW-4A        |          | FSMW-4A - Duplicate |          |
|                                                                                |                                               | Sep-18         |          | Jun-18         |          | Mar-18         |          | Mar-18              |          | Dec-17         |          | Sep-17         |          | Jun-17         |          | Jun-17              |          |
|                                                                                |                                               | 60-70 feet bgs |          | 60-70 feet bgs |          | 60-70 feet bgs |          | 60-70 feet bgs      |          | 60-70 feet bgs |          | 60-70 feet bgs |          | 60-70 feet bgs |          | 60-70 feet bgs      |          |
|                                                                                |                                               | (µg/L)         |          | (µg/L)         |          | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          | (µg/L)         |          | (µg/L)         |          | (µg/L)              |          |
| Analyte                                                                        |                                               |                |          |                |          |                |          |                     |          |                |          |                |          |                |          |                     |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.24           | U        | 0.24           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.37           | U        | 0.37           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.43           | U        | 0.43           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.26           | U        | 0.26           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.12           | U        | 0.12           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.43           | U        | 0.43           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | UJ       | 0.10                | UJ       |
| 1,2-Dichloropropane                                                            | 1                                             | 0.35           | U        | 0.35           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 1.9            | U        | 1.9            | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| 2-Hexanone                                                                     | 50                                            | 2.9            | U        | 2.9            | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 2.7            | U        | 2.7            | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Acetone                                                                        | 50                                            | 5              | U        | 5              | U        | 0.10           | U        | 1.70                | U        | 0.10           | U        | 0.10           | U        | 0.10           | UJ       | 0.10                | UJ       |
| Benzene                                                                        | 1                                             | 0.43           | U        | 0.43           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Bromodichloromethane                                                           | 50                                            | 0.34           | U        | 0.34           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Bromoform                                                                      | 50                                            | 0.54           | U        | 0.54           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Bromomethane                                                                   | 5                                             | 1              | U        | 1              | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | UJ       | 0.10                | U        |
| Carbon disulfide                                                               | 60                                            | 0.16           | U        | 0.16           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Carbon tetrachloride                                                           | 5                                             | 0.21           | U        | 0.21           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Chlorobenzene                                                                  | 5                                             | 0.38           | U        | 0.38           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Chlorobromomethane                                                             | 5                                             | 0.41           | U        | 0.41           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Chloroethane                                                                   | 5                                             | 0.32           | U        | 0.32           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Chloroform                                                                     | 7                                             | 0.33           | U        | 0.33           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Chloromethane                                                                  | 5                                             | 0.14           | U        | 0.14           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>0.4</b>     | <b>J</b> | <b>3.7</b>     |          | 0.10           | U        | 0.10                | U        | <b>0.57</b>    | <b>J</b> | <b>0.57</b>    | <b>J</b> | <b>5.6</b>     | <b>J</b> | <b>5.6</b>          | <b>J</b> |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.46           | U        | 0.46           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Ethylbenzene                                                                   | 5                                             | 0.3            | U        | 0.3            | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Methylene chloride                                                             | 5                                             | 0.32           | U        | 0.32           | U        | 0.10           | U        | 0.37                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Styrene                                                                        | 5                                             | 0.42           | U        | 0.42           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Tetrachloroethene                                                              | 5                                             | <b>51</b>      |          | <b>57</b>      |          | <b>54</b>      |          | <b>49</b>           |          | <b>48</b>      |          | <b>81</b>      |          | <b>52</b>      |          | <b>49</b>           |          |
| Toluene                                                                        | 5                                             | 0.38           | U        | 0.38           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | <b>0.16</b>         | <b>J</b> |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.24           | U        | 0.24           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | UJ       | 0.10                | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.49           | U        | 0.49           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        |
| Trichloroethene                                                                | 5                                             | <b>0.49</b>    | <b>J</b> | <b>0.92</b>    | <b>J</b> | <b>0.62</b>    | <b>J</b> | <b>0.73</b>         | <b>J</b> | <b>0.44</b>    | <b>J</b> | <b>5.3</b>     | <b>J</b> | <b>5.9</b>     | <b>J</b> | <b>6.0</b>          | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 0.17           | U        | 0.17           | U        | 0.10           | U        | 0.10                | U        | <b>0.10</b>    | <b>J</b> | <b>0.10</b>    | <b>J</b> | <b>1.1</b>     | <b>J</b> | <b>1.1</b>          | <b>J</b> |
| m+p Xylene                                                                     | 5                                             | NA             |          | 0.3            | U        | NA             |          | NA                  |          | NA             |          | NA             |          | NA             |          | NA                  |          |
| o-Xylene                                                                       | 5                                             | NA             |          | 0.36           | U        | NA             |          | NA                  |          | NA             |          | NA             |          | NA             |          | NA                  |          |
| Total Xylenes                                                                  | 5                                             | 0.65           | U        | NA             |          | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10           | U        | 0.10           | UJ       | 0.10                | UJ       |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2017           |          |                     |          | 2016           |          |                     |          |                |          |                     |          |                |          |                     |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----------|---------------------|----------|----------------|----------|---------------------|----------|----------------|----------|---------------------|----------|----------------|----------|---------------------|----------|
|                                                                                |                                               | FSMW-4A        |          | FSMW-4A - Duplicate |          | FSMW-4A        |          | FSMW-4A - Duplicate |          | FSMW-4A        |          | FSMW-4A - Duplicate |          | FSMW-4A        |          | FSMW-4A - Duplicate |          |
|                                                                                |                                               | Mar-17         |          | Mar-17              |          | Dec-16         |          | Dec-16              |          | Sep-16         |          | Sep-16              |          | Jun-16         |          | Jun-16              |          |
|                                                                                |                                               | 60-70 feet bgs |          | 60-70 feet bgs      |          | 60-70 feet bgs |          | 60-70 feet bgs      |          | 60-70 feet bgs |          | 60-70 feet bgs      |          | 60-70 feet bgs |          | 60-70 feet bgs      |          |
|                                                                                |                                               | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          | (µg/L)              |          |
| Analyte                                                                        |                                               |                |          |                     |          |                |          |                     |          |                |          |                     |          |                |          |                     |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Acetone                                                                        | 50                                            | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Benzene                                                                        | 1                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Bromoform                                                                      | 50                                            | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Bromomethane                                                                   | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Carbon disulfide                                                               | 60                                            | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Chlorobenzene                                                                  | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Chloroethane                                                                   | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Chloroform                                                                     | 7                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Chloromethane                                                                  | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>4.4</b>     | <b>J</b> | <b>4.1</b>          | <b>J</b> | <b>9.4</b>     | <b>J</b> | <b>9.8</b>          | <b>J</b> | <b>14</b>      | <b>J</b> | <b>14</b>           | <b>J</b> | <b>15</b>      | <b>J</b> | <b>14</b>           | <b>J</b> |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Methylene chloride                                                             | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Styrene                                                                        | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Tetrachloroethene                                                              | 5                                             | <b>69</b>      |          | <b>68</b>           |          | <b>94</b>      |          | <b>97</b>           |          | <b>200</b>     |          | <b>200</b>          |          | <b>300</b>     |          | <b>310</b>          |          |
| Toluene                                                                        | 5                                             | 0.10           | U        | 0.10                | U        | <b>0.76</b>    | <b>J</b> | <b>0.96</b>         | <b>J</b> | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | <b>0.24</b>    | <b>J</b> | <b>0.22</b>         | <b>J</b> | 0.20           | U        | 0.20                | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |
| Trichloroethene                                                                | 5                                             | <b>0.60</b>    | <b>J</b> | <b>0.57</b>         | <b>J</b> | <b>4.8</b>     | <b>J</b> | <b>5.0</b>          | <b>J</b> | <b>9.5</b>     | <b>J</b> | <b>9.5</b>          | <b>J</b> | <b>10</b>      | <b>J</b> | <b>9.8</b>          | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | <b>1.30</b>    | <b>J</b> | <b>1.10</b>         | <b>J</b> | 0.10           | U        | 0.10                | U        | <b>0.93</b>    | <b>J</b> | <b>0.97</b>         | <b>J</b> | 0.20           | U        | 0.20                | U        |
| m+p Xylene                                                                     | 5                                             | NA             |          | NA                  |          | NA             |          | NA                  |          | NA             |          | NA                  |          | NA             |          | NA                  |          |
| o-Xylene                                                                       | 5                                             | NA             |          | NA                  |          | NA             |          | NA                  |          | NA             |          | NA                  |          | NA             |          | NA                  |          |
| Total Xylenes                                                                  | 5                                             | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.20           | U        | 0.20                | U        | 0.20           | U        | 0.20                | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2016           |   | 2015           |   |                     |   |                |   |                     |   |                |   |                     |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|---|----------------|---|---------------------|---|----------------|---|---------------------|---|----------------|---|---------------------|---|
|                                                                                |                                               | FSMW-4A        |   | FSMW-4A        |   | FSMW-4A - Duplicate |   | FSMW-4A        |   | FSMW-4A - Duplicate |   | FSMW-4A        |   | FSMW-4A - Duplicate |   |
|                                                                                |                                               | Apr-16         |   | Dec-15         |   | Dec-15              |   | Sep-15         |   | Sep-15              |   | Jul-15         |   | Jul-15              |   |
|                                                                                |                                               | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs      |   | 60-70 feet bgs |   | 60-70 feet bgs      |   | 60-70 feet bgs |   | 60-70 feet bgs      |   |
|                                                                                |                                               | (µg/L)         |   | (µg/L)         |   | (µg/L)              |   | (µg/L)         |   | (µg/L)              |   | (µg/L)         |   | (µg/L)              |   |
| Analyte                                                                        |                                               |                |   |                |   |                     |   |                |   |                     |   |                |   |                     |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 420            | U | 420                 | U | 210            | U | 210                 | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 300            | U | 300                 | U | 150            | U | 150                 | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.50           | U | 0.10           | U | 0.10                | U | 380            | U | 380                 | U | 190            | U | 190                 | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 340            | U | 340                 | U | 170            | U | 170                 | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 500            | U | 500                 | U | 250            | U | 250                 | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.50           | U | 0.10           | U | 0.10                | U | 170            | U | 170                 | U | 83             | U | 83                  | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.50           | U | 0.10           | U | 0.10                | U | 340            | U | 340                 | U | 170            | U | 170                 | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.50           | U | 0.10           | U | 0.10                | U | 300            | U | 300                 | U | 150            | U | 150                 | U |
| 2-Hexanone                                                                     | 50                                            | 0.50           | U | 0.10           | U | 0.10                | U | 360            | U | 360                 | U | 180            | U | 180                 | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.50           | U | 0.10           | U | 0.10                | U | 340            | U | 340                 | U | 170            | U | 170                 | U |
| Acetone                                                                        | 50                                            | 0.50           | U | 0.10           | U | 0.10                | U | 380            | U | 380                 | U | 190            | U | 190                 | U |
| Benzene                                                                        | 1                                             | 0.50           | U | 0.10           | U | 0.10                | U | 320            | U | 320                 | U | 160            | U | 160                 | U |
| Bromodichloromethane                                                           | 50                                            | 0.50           | U | 0.10           | U | 0.10                | U | 300            | U | 300                 | U | 150            | U | 150                 | U |
| Bromoform                                                                      | 50                                            | 0.50           | U | 0.10           | U | 0.10                | U | 1000           | U | 1000                | U | 500            | U | 500                 | U |
| Bromomethane                                                                   | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 860            | U | 860                 | U | 430            | U | 430                 | U |
| Carbon disulfide                                                               | 60                                            | 0.50           | U | 0.10           | U | 0.10                | U | 420            | U | 420                 | U | 210            | U | 210                 | U |
| Carbon tetrachloride                                                           | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 400            | U | 400                 | U | 200            | U | 200                 | U |
| Chlorobenzene                                                                  | 5                                             | 0.50           | U | 1.70           |   | 1.70                |   | 320            | U | 320                 | U | 160            | U | 160                 | U |
| Chlorobromomethane                                                             | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 340            | U | 340                 | U | 170            | U | 170                 | U |
| Chloroethane                                                                   | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 500            | U | 500                 | U | 250            | U | 250                 | U |
| Chloroform                                                                     | 7                                             | 0.50           | U | 0.10           | U | 0.10                | U | 380            | U | 380                 | U | 190            | U | 190                 | U |
| Chloromethane                                                                  | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 460            | U | 460                 | U | 230            | U | 230                 | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 19             | J | 80             |   | 87                  |   | 360            | U | 360                 | U | 460            | J | 470                 | J |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.50           | U | 0.10           | U | 0.10                | U | 280            | U | 280                 | U | 140            | U | 140                 | U |
| Ethylbenzene                                                                   | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 320            | U | 320                 | U | 160            | U | 160                 | U |
| Methylene chloride                                                             | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 260            | U | 260                 | U | 130            | U | 130                 | U |
| Styrene                                                                        | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 340            | U | 340                 | U | 170            | U | 170                 | U |
| Tetrachloroethene                                                              | 5                                             | 580            |   | 7,800          | D | 7,600               | D | 28,000         |   | 27,000              |   | 31,000         | D | 31,000              | D |
| Toluene                                                                        | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 320            | U | 320                 | U | 160            | U | 160                 | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.69           | J | 0.25           | J | 0.27                | J | 380            | U | 380                 | U | 190            | U | 190                 | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.50           | U | 0.10           | U | 0.10                | U | 320            | U | 320                 | U | 160            | U | 160                 | U |
| Trichloroethene                                                                | 5                                             | 12             | J | 120            |   | 120                 |   | 560            | J | 530                 | J | 770            | J | 760                 | J |
| Vinyl chloride                                                                 | 2                                             | 0.50           | U | 0.10           | U | 0.10                | U | 460            | U | 460                 | U | 230            | U | 230                 | U |
| m+p Xylene                                                                     | 5                                             | NA             |   | NA             |   | NA                  |   | NA             |   | NA                  |   | NA             |   | NA                  |   |
| o-Xylene                                                                       | 5                                             | NA             |   | NA             |   | NA                  |   | NA             |   | NA                  |   | NA             |   | NA                  |   |
| Total Xylenes                                                                  | 5                                             | 0.50           | U | 0.10           | U | 0.10                | U | 160            | U | 160                 | U | 82             | U | 10                  | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2015                |    | 2014           |    |                     |    |                |    |                     |   |                |   |                     |   |                |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|----|----------------|----|---------------------|----|----------------|----|---------------------|---|----------------|---|---------------------|---|----------------|---|
|                                                                                |                                               | FSMW-4A - Duplicate |    | FSMW-4A        |    | FSMW-4A - Duplicate |    | FSMW-4A        |    | FSMW-4A - Duplicate |   | FSMW-4A        |   | FSMW-4A - Duplicate |   | FSMW-4A        |   |
|                                                                                |                                               | Mar-15              |    | Dec-14         |    | Dec-14              |    | Sep-14         |    | Sep-14              |   | Jun-14         |   | Jun-14              |   | Mar-14         |   |
|                                                                                |                                               | 60-70 feet bgs      |    | 60-70 feet bgs |    | 60-70 feet bgs      |    | 60-70 feet bgs |    | 60-70 feet bgs      |   | 60-70 feet bgs |   | 60-70 feet bgs      |   | 60-70 feet bgs |   |
|                                                                                |                                               | (µg/L)              |    | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    | (µg/L)              |   | (µg/L)         |   | (µg/L)              |   | (µg/L)         |   |
| Analyte                                                                        |                                               |                     |    |                |    |                     |    |                |    |                     |   |                |   |                     |   |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 10                  | U  | 110            | U  | 110                 | U  | 420            | U  | 210                 | U | 1,100          | U | 1,100               | U | 840            | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 10                  | U  | 75             | U  | 75                  | U  | 300            | U  | 150                 | U | 750            | U | 750                 | U | 600            | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 10                  | U  | 95             | U  | 95                  | U  | 380            | U  | 190                 | U | 950            | U | 950                 | U | 760            | U |
| 1,1-Dichloroethane                                                             | 5                                             | 10                  | U  | 85             | U  | 85                  | U  | 340            | U  | 170                 | U | 850            | U | 850                 | U | 680            | U |
| 1,1-Dichloroethene                                                             | 5                                             | 10                  | UJ | 130            | U  | 130                 | U  | 500            | U  | 250                 | U | 1,300          | U | 1,300               | U | 1,000          | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 10                  | U  | 42             | U  | 42                  | U  | 170            | U  | 83                  | U | 420            | U | 420                 | U | 330            | U |
| 1,2-Dichloropropane                                                            | 1                                             | 10                  | UJ | 85             | U  | 85                  | U  | 340            | U  | 170                 | U | 850            | U | 850                 | U | 680            | U |
| 2-Butanone (MEK)                                                               | 50                                            | 10                  | U  | 75             | UJ | 75                  | UJ | 300            | U  | 150                 | U | 750            | U | 750                 | U | 600            | U |
| 2-Hexanone                                                                     | 50                                            | 10                  | U  | 90             | UJ | 90                  | UJ | 360            | U  | 180                 | U | 900            | U | 900                 | U | 720            | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 10                  | U  | 85             | U  | 85                  | U  | 340            | U  | 170                 | U | 850            | U | 850                 | U | 680            | U |
| Acetone                                                                        | 50                                            | 10                  | U  | 95             | UJ | 95                  | UJ | 380            | U  | 190                 | U | 950            | U | 950                 | U | 760            | U |
| Benzene                                                                        | 1                                             | 10                  | U  | 80             | U  | 80                  | U  | 320            | U  | 160                 | U | 800            | U | 800                 | U | 640            | U |
| Bromodichloromethane                                                           | 50                                            | 10                  | U  | 75             | U  | 75                  | U  | 300            | U  | 150                 | U | 750            | U | 750                 | U | 600            | U |
| Bromoform                                                                      | 50                                            | 10                  | U  | 250            | U  | 250                 | U  | 1,000          | UJ | 500                 | U | 2,500          | U | 2,500               | U | 2,000          | U |
| Bromomethane                                                                   | 5                                             | 10                  | U  | 220            | U  | 220                 | U  | 860            | U  | 430                 | U | 2,200          | U | 2,200               | U | 1,700          | U |
| Carbon disulfide                                                               | 60                                            | 10                  | U  | 110            | U  | 110                 | U  | 420            | U  | 210                 | U | 1,100          | U | 1,100               | U | 840            | U |
| Carbon tetrachloride                                                           | 5                                             | 10                  | U  | 100            | U  | 100                 | U  | 400            | U  | 200                 | U | 1,000          | U | 1,000               | U | 800            | U |
| Chlorobenzene                                                                  | 5                                             | 10                  | U  | 80             | U  | 80                  | U  | 320            | U  | 160                 | U | 800            | U | 800                 | U | 640            | U |
| Chlorobromomethane                                                             | 5                                             | 10                  | U  | 85             | U  | 85                  | U  | 340            | U  | 170                 | U | 850            | U | 850                 | U | 680            | U |
| Chloroethane                                                                   | 5                                             | 10                  | U  | 130            | U  | 130                 | U  | 500            | U  | 250                 | U | 1,300          | U | 1,300               | U | 1,000          | U |
| Chloroform                                                                     | 7                                             | 10                  | U  | 95             | U  | 95                  | U  | 380            | U  | 190                 | U | 950            | U | 950                 | U | 760            | U |
| Chloromethane                                                                  | 5                                             | 10                  | U  | 120            | U  | 120                 | U  | 460            | U  | 230                 | U | 1,200          | U | 1,200               | U | 920            | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 420                 |    | 110            | J  | 110                 | J  | 360            | U  | 280                 | J | 900            | U | 900                 | U | 720            | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 10                  | U  | 70             | U  | 70                  | U  | 280            | U  | 140                 | U | 700            | U | 700                 | U | 560            | U |
| Ethylbenzene                                                                   | 5                                             | 10                  | U  | 80             | U  | 80                  | U  | 320            | U  | 160                 | U | 800            | U | 800                 | U | 640            | U |
| Methylene chloride                                                             | 5                                             | 10                  | U  | 65             | U  | 65                  | U  | 260            | U  | 130                 | U | 650            | U | 650                 | U | 520            | U |
| Styrene                                                                        | 5                                             | 10                  | U  | 85             | U  | 85                  | U  | 340            | U  | 170                 | U | 850            | U | 850                 | U | 680            | U |
| Tetrachloroethene                                                              | 5                                             | 19,000              |    | 6,800          |    | 6,700               |    | 27,000         |    | 28,000              | D | 88,000         |   | 92,000              |   | 76,000         | D |
| Toluene                                                                        | 5                                             | 10                  | U  | 80             | U  | 80                  | U  | 320            | U  | 160                 | U | 800            | U | 800                 | U | 640            | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 10                  | U  | 95             | U  | 95                  | U  | 380            | U  | 190                 | U | 950            | U | 950                 | U | 760            | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 10                  | U  | 80             | U  | 80                  | U  | 320            | U  | 160                 | U | 800            | U | 800                 | U | 640            | U |
| Trichloroethene                                                                | 5                                             | 370                 |    | 120            | J  | 110                 | J  | 650            | J  | 650                 | J | 1,400          | J | 1,400               | J | 2,400          | J |
| Vinyl chloride                                                                 | 2                                             | 10                  | U  | 120            | U  | 120                 | U  | 460            | U  | 230                 | U | 1,200          | U | 1,200               | U | 920            | U |
| m+p Xylene                                                                     | 5                                             | NA                  |    | NA             |    | NA                  |    | NA             |    | NA                  |   | NA             |   | NA                  |   | NA             |   |
| o-Xylene                                                                       | 5                                             | NA                  |    | NA             |    | NA                  |    | NA             |    | NA                  |   | NA             |   | NA                  |   | NA             |   |
| Total Xylenes                                                                  | 5                                             | 41                  | U  | 41             | U  | 160                 | U  | 82             | U  | 410                 | U | 410            | U | 330                 | U | 330            | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2014                |   | 2013           |    |                |   | 2012           |    |                     |    |                |    |                |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|---|----------------|----|----------------|---|----------------|----|---------------------|----|----------------|----|----------------|----|
|                                                                                |                                               | FSMW-4A - Duplicate |   | FSMW-4A        |    | FSMW-4A        |   | FSMW-4A        |    | FSMW-4A - Duplicate |    | FSMW-4A        |    | FSMW-4A        |    |
|                                                                                |                                               | Mar-14              |   | Oct-13         |    | Jul-13         |   | Nov-12         |    | Nov-12              |    | Jul-12         |    | Apr-12         |    |
|                                                                                |                                               | 60-70 feet bgs      |   | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |    | 60-70 feet bgs      |    | 60-70 feet bgs |    | 60-70 feet bgs |    |
|                                                                                |                                               | (µg/L)              |   | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    | (µg/L)         |    |
| Analyte                                                                        |                                               |                     |   |                |    |                |   |                |    |                     |    |                |    |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 840                 | U | 840            | U  | 1,100          | U | 84             | U  | 170                 | U  | 530            | U  | 530            | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 600                 | U | 600            | U  | 750            | U | 60             | U  | 120                 | U  | 380            | U  | 380            | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 760                 | U | 760            | U  | 950            | U | 76             | U  | 150                 | U  | 480            | U  | 480            | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 680                 | U | 680            | U  | 850            | U | 68             | U  | 140                 | U  | 430            | U  | 430            | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 1,000               | U | 1,000          | U  | 1,300          | U | 100            | U  | 200                 | U  | 630            | U  | 630            | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 330                 | U | 330            | U  | 420            | U | 33             | U  | 66                  | U  | 210            | U  | 210            | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 680                 | U | 680            | U  | 850            | U | 68             | U  | 140                 | U  | 430            | U  | 430            | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 600                 | U | 600            | U  | 750            | U | 60             | UJ | 120                 | UJ | 380            | UJ | 380            | U  |
| 2-Hexanone                                                                     | 50                                            | 720                 | U | 720            | UJ | 900            | U | 72             | UJ | 140                 | UJ | 450            | U  | 450            | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 680                 | U | 680            | U  | 850            | U | 68             | U  | 140                 | U  | 430            | U  | 430            | U  |
| Acetone                                                                        | 50                                            | 760                 | U | 760            | UJ | 950            | U | 76             | UJ | 150                 | UJ | 480            | UJ | 480            | U  |
| Benzene                                                                        | 1                                             | 640                 | U | 640            | U  | 800            | U | 64             | U  | 130                 | U  | 400            | U  | 400            | U  |
| Bromodichloromethane                                                           | 50                                            | 600                 | U | 600            | U  | 750            | U | 60             | U  | 120                 | U  | 380            | U  | 380            | U  |
| Bromoform                                                                      | 50                                            | 2,000               | U | 2,000          | U  | 2,500          | U | 200            | UJ | 400                 | UJ | 1,300          | U  | 1,300          | U  |
| Bromomethane                                                                   | 5                                             | 1,700               | U | 1,700          | U  | 2,200          | U | 170            | U  | 340                 | U  | 1,100          | U  | 1,100          | UJ |
| Carbon disulfide                                                               | 60                                            | 840                 | U | 840            | U  | 1,100          | U | 84             | U  | 170                 | U  | 530            | U  | 530            | U  |
| Carbon tetrachloride                                                           | 5                                             | 800                 | U | 800            | U  | 1,000          | U | 80             | U  | 160                 | U  | 500            | U  | 500            | U  |
| Chlorobenzene                                                                  | 5                                             | 640                 | U | 640            | U  | 800            | U | 64             | U  | 130                 | U  | 400            | U  | 400            | U  |
| Chlorobromomethane                                                             | 5                                             | 680                 | U | 680            | U  | 850            | U | 68             | U  | 140                 | U  | 430            | U  | 430            | U  |
| Chloroethane                                                                   | 5                                             | 1,000               | U | 1,000          | UJ | 1,300          | U | 100            | U  | 200                 | U  | 630            | U  | 630            | U  |
| Chloroform                                                                     | 7                                             | 760                 | U | 760            | U  | 950            | U | 76             | U  | 150                 | U  | 480            | U  | 480            | U  |
| Chloromethane                                                                  | 5                                             | 920                 | U | 920            | U  | 1,200          | U | 92             | U  | 180                 | U  | 580            | U  | 580            | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 720                 | U | 720            | U  | 900            | U | 170            | J  | 170                 | J  | 450            | U  | 450            | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 560                 | U | 560            | U  | 700            | U | 56             | U  | 110                 | U  | 350            | U  | 350            | U  |
| Ethylbenzene                                                                   | 5                                             | 640                 | U | 640            | U  | 800            | U | 64             | U  | 130                 | U  | 400            | U  | 400            | U  |
| Methylene chloride                                                             | 5                                             | 520                 | U | 520            | U  | 650            | U | 52             | U  | 100                 | U  | 330            | U  | 330            | U  |
| Styrene                                                                        | 5                                             | 680                 | U | 680            | U  | 850            | U | 68             | U  | 140                 | U  | 430            | U  | 430            | U  |
| Tetrachloroethene                                                              | 5                                             | 76,000              | D | 51,000         |    | 80,000         |   | 62,000         | D  | 69,000              | D  | 66,000         | D  | 35,000         |    |
| Toluene                                                                        | 5                                             | 640                 | U | 640            | U  | 800            | U | 64             | U  | 130                 | U  | 400            | U  | 400            | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 760                 | U | 760            | U  | 950            | U | 76             | U  | 150                 | U  | 480            | U  | 480            | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 640                 | U | 640            | U  | 800            | U | 64             | U  | 130                 | U  | 400            | U  | 400            | U  |
| Trichloroethene                                                                | 5                                             | 2,400               | J | 760            | U  | 950            | U | 2,100          |    | 1,900               |    | 1,300          | J  | 1,100          | J  |
| Vinyl chloride                                                                 | 2                                             | 920                 | U | 920            | U  | 1,200          | U | 92             | U  | 180                 | U  | 580            | U  | 580            | U  |
| m+p Xylene                                                                     | 5                                             | NA                  |   | NA             |    | NA             |   | NA             |    | NA                  |    | NA             |    | NA             |    |
| o-Xylene                                                                       | 5                                             | NA                  |   | NA             |    | NA             |   | NA             |    | NA                  |    | NA             |    | NA             |    |
| Total Xylenes                                                                  | 5                                             | 330                 | U | 410            | U  | 33             | U | 65             | U  | 200                 | U  | 200            | U  | 200            | U  |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2011           |    |                     |    |                |    |                |    |                     |    | 2010           |     |                     |     |                |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|---------------------|----|----------------|----|----------------|----|---------------------|----|----------------|-----|---------------------|-----|----------------|----|
|                                                                                |                                               | FSMW-4A        |    | FSMW-4A - Duplicate |    | FSMW-4A        |    | FSMW-4A        |    | FSMW-4A - Duplicate |    | FSMW-4A        |     | FSMW-4A - Duplicate |     | FSMW-4A        |    |
|                                                                                |                                               | Dec-11         |    | Dec-11              |    | Jul-11         |    | Apr-11         |    | Apr-11              |    | Dec-10         |     | Dec-10              |     | Sep-10         |    |
|                                                                                |                                               | 60-70 feet bgs |    | 60-70 feet bgs      |    | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs      |    | 60-70 feet bgs |     | 60-70 feet bgs      |     | 60-70 feet bgs |    |
|                                                                                |                                               | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    | (µg/L)         |    | (µg/L)              |    | (µg/L)         |     | (µg/L)              |     | (µg/L)         |    |
| Analyte                                                                        |                                               |                |    |                     |    |                |    |                |    |                     |    |                |     |                     |     |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1            | U  | 2.1                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.36           | J  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5            | U  | 1.5                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9            | U  | 1.9                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7            | U  | 1.7                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5            | U  | 2.5                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83           | U  | 0.83                | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7            | U  | 1.7                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5            | UJ | 1.5                 | UJ | 4.0            | UJ | 4.0            | UJ | 4.0                 | UJ | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| 2-Hexanone                                                                     | 50                                            | 1.8            | UJ | 1.8                 | UJ | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7            | U  | 1.7                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Acetone                                                                        | 50                                            | 1.9            | UJ | 1.9                 | UJ | 15             | UJ | 7.1            | UJ | 12                  | UJ | 22             | JB* | 24                  | JB* | 1.6            | J  |
| Benzene                                                                        | 1                                             | 1.6            | U  | 1.6                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Bromodichloromethane                                                           | 50                                            | 1.5            | U  | 1.5                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Bromoform                                                                      | 50                                            | 5.0            | UJ | 5.0                 | UJ | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Bromomethane                                                                   | 5                                             | 4.3            | U  | 4.3                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Carbon disulfide                                                               | 60                                            | 2.1            | U  | 2.1                 | U  | 4.0            | U  | 31             | U  | 24                  | U  | 4.0            | JB  | 4.0                 | U   | 0.10           | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0            | U  | 2.0                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Chlorobenzene                                                                  | 5                                             | 1.6            | U  | 1.6                 | U  | 4.0            | U  | 4.0            | UJ | 6.6                 | J  | 4.0            | U   | 4.0                 | U   | 3.1            | J  |
| Chlorobromomethane                                                             | 5                                             | 1.7            | U  | 1.7                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Chloroethane                                                                   | 5                                             | 2.5            | U  | 2.5                 | U  | 4.0            | U  | 4.0            | UJ | 4.0                 | UJ | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Chloroform                                                                     | 7                                             | 1.9            | U  | 1.9                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Chloromethane                                                                  | 5                                             | 2.3            | U  | 2.3                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U* |
| cis-1,2-Dichloroethene                                                         | 5                                             | 110            |    | 100                 |    | 130            | J  | 150            | J  | 160                 | J  | 36             | J   | 40                  | J   | 49             |    |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4            | U  | 1.4                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6            | U  | 1.6                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Methylene chloride                                                             | 5                                             | 1.3            | U  | 1.3                 | U  | 100            | U  | 71             | U  | 89                  | U  | 100            | JB  | 130                 | JB  | 0.23           | JB |
| Styrene                                                                        | 5                                             | 1.7            | U  | 1.7                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Tetrachloroethene                                                              | 5                                             | 30,000         | D  | 29,000              | D  | 57,000         | D  | 69,000         | D  | 69,000              | D  | 39,000         |     | 39,000              |     | 38,000         | B  |
| Toluene                                                                        | 5                                             | 1.6            | U  | 1.6                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.24           | J  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9            | U  | 1.9                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.31           | J  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6            | U  | 1.6                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 4.0                 | U   | 0.10           | U  |
| Trichloroethene                                                                | 5                                             | 570            | D  | 560                 | D  | 1,300          |    | 600            |    | 620                 |    | 390            |     | 390                 | J   | 410            | J  |
| Vinyl chloride                                                                 | 2                                             | 2.3            | U  | 2.3                 | U  | 4.0            | U  | 5.0            | J  | 8.1                 | J  | 5.0            | U   | 4.0                 | U   | 3.6            | J* |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA                  |    | NA             |    | NA             |    | NA                  |    | NA             |     | NA                  |     | NA             |    |
| o-Xylene                                                                       | 5                                             | NA             |    | NA                  |    | NA             |    | NA             |    | NA                  |    | NA             |     | NA                  |     | NA             |    |
| Total Xylenes                                                                  | 5                                             | 0.82           | U  | 4.0                 | U  | 4.0            | U  | 4.0            | U  | 4.0                 | U  | 4.0            | U   | 0.10                | U   | 2.0            | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2010           |            |                     |            |                |            | 2009           |            |                     |            |                |            |                |           |                |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|------------|---------------------|------------|----------------|------------|----------------|------------|---------------------|------------|----------------|------------|----------------|-----------|----------------|----------|
|                                                                                |                                               | FSMW-4A        |            | FSMW-4A - Duplicate |            | FSMW-4A        |            | FSMW-4A        |            | FSMW-4A - Duplicate |            | FSMW-4A        |            | FSMW-4A        |           | FSMW-4A        |          |
|                                                                                |                                               | Jun-10         |            | Jun-10              |            | Mar-10         |            | Dec-09         |            | Dec-09              |            | Sep-09         |            | Jun-09         |           | Mar-09         |          |
|                                                                                |                                               | 60-70 feet bgs |            | 60-70 feet bgs      |            | 60-70 feet bgs |            | 60-70 feet bgs |            | 60-70 feet bgs      |            | 60-70 feet bgs |            | 60-70 feet bgs |           | 60-70 feet bgs |          |
|                                                                                |                                               | (µg/L)         |            | (µg/L)              |            | (µg/L)         |            | (µg/L)         |            | (µg/L)              |            | (µg/L)         |            | (µg/L)         |           | (µg/L)         |          |
| Analyte                                                                        |                                               |                |            |                     |            |                |            |                |            |                     |            |                |            |                |           |                |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 2.0            | U*         | 2.0                 | U*         | 4.0            | U*         | 10.0           | U*         | 10.0                | U*         | 2.5            | U*         | 50             | U         | 500            | U        |
| 2-Hexanone                                                                     | 50                                            | 2.0            | U*         | 2.0                 | U*         | 4.0            | U          | 10.0           | U*         | 10.0                | U*         | 2.5            | U*         | 50             | U         | 500            | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Acetone                                                                        | 50                                            | <b>22</b>      | <b>JB*</b> | <b>19</b>           | <b>JB*</b> | <b>32</b>      | <b>JB*</b> | <b>52</b>      | <b>JB*</b> | <b>72</b>           | <b>JB*</b> | <b>13</b>      | <b>JB*</b> | <b>410</b>     | <b>JB</b> | 10             | UJ       |
| Benzene                                                                        | 1                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Bromodichloromethane                                                           | 50                                            | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Bromoform                                                                      | 50                                            | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Bromomethane                                                                   | 5                                             | <b>3.3</b>     | <b>J</b>   | <b>3.70</b>         | <b>J</b>   | 4.0            | U          | 10             | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Carbon disulfide                                                               | 60                                            | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Carbon tetrachloride                                                           | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Chlorobenzene                                                                  | 5                                             | 2.0            | U          | <b>4.6</b>          | <b>J</b>   | 4.0            | U          | 10             | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Chlorobromomethane                                                             | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Chloroethane                                                                   | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Chloroform                                                                     | 7                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Chloromethane                                                                  | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>51</b>      | <b>J</b>   | <b>41</b>           | <b>J</b>   | <b>110</b>     | <b>J</b>   | <b>78</b>      | <b>J</b>   | <b>77</b>           | <b>J</b>   | <b>150</b>     | <b>J</b>   | <b>77</b>      | <b>J</b>  | <b>150</b>     | <b>J</b> |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Ethylbenzene                                                                   | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Methylene chloride                                                             | 5                                             | <b>15</b>      | <b>JB</b>  | <b>18</b>           | <b>JB</b>  | <b>40</b>      | <b>JB</b>  | <b>53</b>      | <b>JB</b>  | <b>48</b>           | <b>JB</b>  | 58             | JB         | 520            | JB        | 500            | U        |
| Styrene                                                                        | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Tetrachloroethene                                                              | 5                                             | <b>24,000</b>  |            | <b>20,000</b>       |            | <b>37,000</b>  |            | <b>9,300</b>   |            | <b>9,100</b>        |            | <b>40,000</b>  |            | <b>42,000</b>  |           | <b>61,000</b>  |          |
| Toluene                                                                        | 5                                             | 2.0            | U          | 2.2                 | J          | 4.0            | U          | 10             | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 2.0            | U          | 2.0                 | U          | 4.0            | U          | 10.0           | U          | 10.0                | U          | 2.5            | U          | 50             | U         | 500            | U        |
| Trichloroethene                                                                | 5                                             | <b>320</b>     |            | <b>310</b>          |            | <b>560</b>     |            | <b>140</b>     | <b>J</b>   | <b>130</b>          | <b>J</b>   | <b>490</b>     |            | <b>280</b>     | <b>J</b>  | <b>600</b>     |          |
| Vinyl chloride                                                                 | 2                                             | <b>4.3</b>     | <b>J</b>   | <b>2.6</b>          | <b>J</b>   | <b>8.7</b>     | <b>J</b>   | 10             | U          | 10.0                | U          | <b>6.7</b>     | <b>J</b>   | 50             | U         | 500            | U        |
| m+p Xylene                                                                     | 5                                             | NA             |            | NA                  |            | NA             |            | NA             |            | NA                  |            | NA             |            | NA             |           | NA             |          |
| o-Xylene                                                                       | 5                                             | NA             |            | NA                  |            | NA             |            | NA             |            | NA                  |            | NA             |            | NA             |           | NA             |          |
| Total Xylenes                                                                  | 5                                             | 2.0            | U          | 4.0                 | U          | 10.0           | U          | 10.0           | U          | 2.5                 | U          | 50             | U          | 500            | U         | 50             | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2008           |    |                |    |                     |    |                |    |                |   | 2007           |   |                |   |                |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|----|---------------------|----|----------------|----|----------------|---|----------------|---|----------------|---|----------------|---|
|                                                                                |                                               | FSMW-4A        |    | FSMW-4A        |    | FSMW-4A - Duplicate |    | FSMW-4A        |    | FSMW-4A        |   | FSMW-4A        |   | FSMW-4A        |   | FSMW-4A        |   |
|                                                                                |                                               | Dec-08         |    | Sep-08         |    | Sep-08              |    | Jun-08         |    | Mar-08         |   | Dec-07         |   | Aug-07         |   | May-07         |   |
|                                                                                |                                               | 60-70 feet bgs |    | 60-70 feet bgs |    | 60-70 feet bgs      |    | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |   |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   |
| Analyte                                                                        |                                               |                |    |                |    |                     |    |                |    |                |   |                |   |                |   |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| 1,1-Dichloroethane                                                             | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| 1,1-Dichloroethene                                                             | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| 1,2-Dichloropropane                                                            | 1                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| 2-Butanone (MEK)                                                               | 50                                            | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 10             | U | 0.10           | U | 2,000          | U |
| 2-Hexanone                                                                     | 50                                            | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 10             | U | 0.10           | U | 2,000          | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 50             | U* | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 10             | U | 0.10           | U | 2,000          | U |
| Acetone                                                                        | 50                                            | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 10             | U | 0.10           | U | 2,000          | U |
| Benzene                                                                        | 1                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Bromodichloromethane                                                           | 50                                            | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Bromoform                                                                      | 50                                            | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Bromomethane                                                                   | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Carbon disulfide                                                               | 60                                            | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Carbon tetrachloride                                                           | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Chlorobenzene                                                                  | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5.5            |   | 5.1            | J | 2,000          | U |
| Chlorobromomethane                                                             | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Chloroethane                                                                   | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Chloroform                                                                     | 7                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Chloromethane                                                                  | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 230            | J  | 280            | J  | 290                 | J  | 92             | J  | 24             | J | 110            |   | 66             | J | 2,000          | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Ethylbenzene                                                                   | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Methylene chloride                                                             | 5                                             | 570            | JB | 240            | JB | 240                 | JB | 24             | JB | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Styrene                                                                        | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Tetrachloroethene                                                              | 5                                             | 54,000         |    | 51,000         |    | 51,000              |    | 55,000         |    | 50,000         |   | 48,000         |   | 46,000         |   | 22,000         |   |
| Toluene                                                                        | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 1.5            | J | 2.0            | J | 2,000          | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| Trichloroethene                                                                | 5                                             | 420            | J  | 600            |    | 640                 |    | 260            |    | 230            | J | 600            | J | 720            | J | 360            | J |
| Vinyl chloride                                                                 | 2                                             | 50             | U  | 5.0            | U  | 5.0                 | U  | 1.0            | U  | 40             | U | 5              | U | 0.10           | U | 2,000          | U |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |    | NA                  |    | NA             |    | NA             |   | NA             |   | NA             |   | NA             |   |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |    | NA                  |    | NA             |    | NA             |   | NA             |   | NA             |   | NA             |   |
| Total Xylenes                                                                  | 5                                             | 5.0            | U  | 5.0            | U  | 1.0                 | U  | 40             | U  | 0.53           | J | 0.58           | J | 2,000          | U | 2,000          | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2007           |   | 2006           |   |                |   | 2018             |   |                  |   |                  |   | 2017             |   |                  |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|---|----------------|---|----------------|---|------------------|---|------------------|---|------------------|---|------------------|---|------------------|---|
|                                                                                |                                               | FSMW-4A        |   | FSMW-4A        |   | FSMW-4A        |   | FSMW-4B          |   | FSMW-4B          |   | FSMW-4B          |   | FSMW-4B          |   | FSMW-4B          |   |
|                                                                                |                                               | Feb-07         |   | Nov-06         |   | Aug-06         |   | Oct-18           |   | Jun-18           |   | Mar-18           |   | Dec-17           |   | Sep-17           |   |
|                                                                                |                                               | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |   | 137-147 feet bgs |   | 137-147 feet bgs |   | 137-147 feet bgs |   | 137-147 feet bgs |   | 137-147 feet bgs |   |
|                                                                                |                                               | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   |
| Analyte                                                                        |                                               |                |   |                |   |                |   |                  |   |                  |   |                  |   |                  |   |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2,000          | U | 5              | J | 2,000          | U | 0.24             | U | 0.24             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 2,000          | U | 10             | U | 2,000          | U | 0.37             | U | 0.37             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 2,000          | U | 10             | U | 2,000          | U | 0.43             | U | 0.43             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 2,000          | U | 10             | U | 2,000          | U | 0.26             | U | 0.26             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,1-Dichloroethene                                                             | 5                                             | 2,000          | U | 10             | U | 2,000          | U | 0.12             | U | 0.12             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 2,000          | U | 10             | U | 2,000          | U | 0.43             | U | 0.43             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 2,000          | U | 10             | U | 2,000          | U | 0.35             | U | 0.35             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 2,000          | U | 10             | U | 2,000          | U | 1.9              | U | 1.9              | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 2-Hexanone                                                                     | 50                                            | 2,000          | U | 10             | U | 2,000          | U | 2.9              | U | 2.9              | U | 0.10             | U | 0.10             | U | 0.10             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 2,000          | U | 10             | U | 2,000          | U | 2.7              | U | 2.7              | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Acetone                                                                        | 50                                            | 2,000          | U | 10             | U | 2,000          | U | 5                | U | 5                | U | 1.5              | U | 0.10             | U | 0.10             | U |
| Benzene                                                                        | 1                                             | 2,000          | U | 10             | U | 2,000          | U | 0.43             | U | 0.43             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Bromodichloromethane                                                           | 50                                            | 2,000          | U | 10             | U | 2,000          | U | 0.34             | U | 0.34             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Bromoform                                                                      | 50                                            | 2,000          | U | 10             | U | 2,000          | U | 0.54             | U | 0.54             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Bromomethane                                                                   | 5                                             | 2,000          | U | 10             | U | 2,000          | U | 1                | U | 1                | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Carbon disulfide                                                               | 60                                            | 2,000          | U | 10             | U | 2,000          | U | 0.16             | U | 0.16             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Carbon tetrachloride                                                           | 5                                             | 2,000          | U | 10             | U | 2,000          | U | 0.21             | U | 0.21             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Chlorobenzene                                                                  | 5                                             | 2,000          | U | 10             |   | 2,000          | U | 0.38             | U | 0.38             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Chlorobromomethane                                                             | 5                                             | 2,000          | U | 10             | U | 2,000          | U | 0.41             | U | 0.41             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Chloroethane                                                                   | 5                                             | 2,000          | U | 10             | U | 2,000          | U | 0.32             | U | 0.32             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Chloroform                                                                     | 7                                             | 2,000          | U | 10             | U | 2,000          | U | 0.33             | U | 0.33             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Chloromethane                                                                  | 5                                             | 2,000          | U | 10             | U | 2,000          | U | 0.14             | U | 0.14             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 2,000          | U | 71             |   | 2,000          | U | 0.22             | U | 0.22             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 2,000          | U | 10             | U | 2,000          | U | 0.46             | U | 0.46             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Ethylbenzene                                                                   | 5                                             | 2,000          | U | 0.7            | J | 2,000          | U | 0.3              | U | 0.3              | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Methylene chloride                                                             | 5                                             | 2,000          | U | 10             | U | 2,000          | U | 0.32             | U | 0.32             | U | 0.37             | U | 0.10             | U | 0.10             | U |
| Styrene                                                                        | 5                                             | 2,000          | U | 10             | U | 2,000          | U | 0.42             | U | 0.42             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Tetrachloroethene                                                              | 5                                             | 18,000         |   | 79,000         |   | 16,000         |   | 3.5              |   | 6.8              |   | 9.3              | J | 3.1              | J | 6.0              | J |
| Toluene                                                                        | 5                                             | 2,000          | U | 4              | J | 2,000          | U | 0.38             | U | 0.38             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 2,000          | U | 0.8            | J | 2,000          | U | 0.24             | U | 0.24             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 2,000          | U | 10             | U | 2,000          | U | 0.49             | U | 0.49             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| Trichloroethene                                                                | 5                                             | 280            | J | 1,600          | J | 420            | J | 1.8              |   | 1.6              |   | 1.40             | J | 1.10             | J | 0.97             | J |
| Vinyl chloride                                                                 | 2                                             | 2,000          | U | 10             | U | 2,000          | U | 0.17             | U | 0.17             | U | 0.10             | U | 0.10             | U | 0.10             | U |
| m+p Xylene                                                                     | 5                                             | NA             |   | NA             |   | NA             |   | NA               |   | 0.3              | U | NA               |   | NA               |   | NA               |   |
| o-Xylene                                                                       | 5                                             | NA             |   | NA             |   | NA             |   | NA               |   | 0.36             | U | NA               |   | NA               |   | NA               |   |
| Total Xylenes                                                                  | 5                                             | 2.0            | J | 2,000          | U | 0.82           | U | 0.65             | U | NA               |   | 0.10             | U | 0.10             | U | 0.10             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2017             |          |                  |          | 2016             |          |                  |          |                  |          |                  |          | 2015             |    |                  |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----|------------------|----------|
|                                                                                |                                               | FSMW-4B          |          | FSMW-4B          |          | FSMW-4B          |          | FSMW-4B          |          | FSMW-4B          |          | FSMW-4B          |          | FSMW-4B          |    | FSMW-4B          |          |
|                                                                                |                                               | Jun-17           |          | Mar-17           |          | Dec-16           |          | Sep-16           |          | Jun-16           |          | Apr-16           |          | Dec-15           |    | Sep-15           |          |
|                                                                                |                                               | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |    | 137-147 feet bgs |          |
|                                                                                |                                               | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |    | (µg/L)           |          |
| Analyte                                                                        |                                               |                  |          |                  |          |                  |          |                  |          |                  |          |                  |          |                  |    |                  |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 2.1              | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.5              | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.9              | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.7              | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | UJ       | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 2.5              | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U        | 0.10             | UJ       | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 0.83             | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.7              | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U        | 0.10             | U        | 0.10             | UJ       | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.5              | U        |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.8              | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.7              | U        |
| Acetone                                                                        | 50                                            | 0.10             | UJ       | 0.10             | UJ       | 0.10             | UJ       | 0.10             | UJ       | 0.10             | UJ       | 0.10             | U        | 0.10             | UJ | 1.9              | U        |
| Benzene                                                                        | 1                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.6              | U        |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.5              | U        |
| Bromoform                                                                      | 50                                            | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 5.0              | U        |
| Bromomethane                                                                   | 5                                             | 0.10             | UJ       | 0.10             | U        | 0.10             | U        | 0.10             | UJ       | 0.10             | U        | 0.10             | U        | 0.10             | UJ | 4.3              | U        |
| Carbon disulfide                                                               | 60                                            | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 2.1              | U        |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 2.0              | U        |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.6              | U        |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.7              | U        |
| Chloroethane                                                                   | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 2.5              | U        |
| Chloroform                                                                     | 7                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.9              | U        |
| Chloromethane                                                                  | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | UJ       | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 2.3              | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.8              | U        |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.4              | U        |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.6              | U        |
| Methylene chloride                                                             | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | UJ | 1.3              | U        |
| Styrene                                                                        | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.7              | U        |
| Tetrachloroethene                                                              | 5                                             | <b>4.4</b>       | <b>J</b> | <b>8.6</b>       | <b>J</b> | <b>7.2</b>       | <b>J</b> | <b>7.8</b>       | <b>J</b> | <b>13</b>        |          | <b>16</b>        |          | <b>13</b>        |    | <b>20</b>        |          |
| Toluene                                                                        | 5                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.6              | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | UJ       | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | UJ       | 0.10             | U  | 1.9              | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 1.6              | U        |
| Trichloroethene                                                                | 5                                             | <b>0.59</b>      | <b>J</b> | <b>0.66</b>      | <b>J</b> | <b>0.57</b>      | <b>J</b> | <b>0.60</b>      | <b>J</b> | <b>0.83</b>      | <b>J</b> | <b>0.73</b>      | <b>J</b> | <b>1.8</b>       |    | <b>2.3</b>       | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 2.3              | U        |
| m+p Xylene                                                                     | 5                                             | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          | NA               |    | NA               |          |
| o-Xylene                                                                       | 5                                             | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          | NA               |    | NA               |          |
| Total Xylenes                                                                  | 5                                             | 0.10             | UJ       | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U        | 0.10             | U  | 0.82             | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2015             |          |                  |          | 2014             |          |                  |          |                  |          | 2013             |          |                     |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|---------------------|----------|
|                                                                                |                                               | FSMW-4B          |          | FSMW-4B          |          | FSMW-4B          |          | FSMW-4B          |          | FSMW-4B          |          | FSMW-4B          |          | FSMW-4B - Duplicate |          |
|                                                                                |                                               | Jul-15           |          | Mar-15           |          | Dec-14           |          | Sep-14           |          | Jun-14           |          | Mar-14           |          | Oct-13              |          |
|                                                                                |                                               | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs    |          |
|                                                                                |                                               | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)              |          |
| Analyte                                                                        |                                               |                  |          |                  |          |                  |          |                  |          |                  |          |                  |          |                     |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1              | U        | 0.10             | U        | 2.1              | U        | 2.1              | U        | 2.1              | U        | 2.1              | U        | 2.1                 | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5              | U        | 0.10             | UJ       | 1.5              | U        | 1.5              | U        | 1.5              | U        | 1.5              | U        | 1.5                 | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9              | U        | 0.10             | U        | 1.9              | U        | 1.9              | U        | 1.9              | U        | 1.9              | U        | 1.9                 | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7              | U        | 0.10             | U        | 1.7              | U        | 1.7              | U        | 1.7              | U        | 1.7              | U        | 1.7                 | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5              | U        | 0.10             | U        | 2.5              | U        | 2.5              | U        | 2.5              | U        | 2.5              | U        | 2.5                 | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83             | U        | 0.10             | U        | 0.83             | U        | 0.83             | U        | 0.83             | U        | 0.83             | U        | 0.83                | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7              | U        | 0.10             | U        | 1.7              | U        | 1.7              | U        | 1.7              | U        | 1.7              | U        | 1.7                 | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5              | U        | 0.10             | U        | 1.5              | UJ       | 1.5              | U        | 1.5              | U        | 1.5              | U        | 1.5                 | U        |
| 2-Hexanone                                                                     | 50                                            | 1.8              | U        | 0.10             | U        | 1.8              | UJ       | 1.8              | U        | 1.8              | U        | 1.8              | U        | 1.8                 | UJ       |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7              | U        | 0.10             | U        | 1.7              | U        | 1.7              | U        | 1.7              | U        | 1.7              | U        | 1.7                 | U        |
| Acetone                                                                        | 50                                            | 1.9              | U        | 0.10             | U        | 1.9              | UJ       | 1.9              | U        | 1.9              | U        | 1.9              | U        | 1.9                 | UJ       |
| Benzene                                                                        | 1                                             | 1.6              | U        | 0.10             | U        | 1.6              | U        | 1.6              | U        | 1.6              | U        | 1.6              | U        | 1.6                 | U        |
| Bromodichloromethane                                                           | 50                                            | 1.5              | U        | 0.10             | U        | 1.5              | U        | 1.5              | U        | 1.5              | U        | 1.5              | U        | 1.5                 | U        |
| Bromoform                                                                      | 50                                            | 5.0              | U        | 0.10             | UJ       | 5.0              | U        | 5.0              | U        | 5.0              | U        | 5.0              | U        | 5.0                 | U        |
| Bromomethane                                                                   | 5                                             | 4.3              | U        | 0.10             | U        | 4.3              | U        | 4.3              | U        | 4.3              | U        | 4.3              | UJ       | 4.3                 | U        |
| Carbon disulfide                                                               | 60                                            | 2.1              | U        | 0.10             | U        | 2.1              | U        | 2.1              | U        | 2.1              | U        | 2.1              | U        | 2.1                 | U        |
| Carbon tetrachloride                                                           | 5                                             | 2.0              | U        | 0.10             | U        | 2.0              | U        | 2.0              | U        | 2.0              | U        | 2.0              | U        | 2.0                 | U        |
| Chlorobenzene                                                                  | 5                                             | 1.6              | U        | 0.10             | U        | 1.6              | U        | 1.6              | U        | 1.6              | U        | 1.6              | U        | 1.6                 | U        |
| Chlorobromomethane                                                             | 5                                             | 1.7              | U        | 0.10             | U        | 1.7              | U        | 1.7              | U        | 1.7              | U        | 1.7              | U        | 1.7                 | U        |
| Chloroethane                                                                   | 5                                             | 2.5              | U        | 0.10             | U        | 2.5              | U        | 2.5              | U        | 2.5              | U        | 2.5              | U        | 2.5                 | UJ       |
| Chloroform                                                                     | 7                                             | 1.9              | U        | <b>0.20</b>      | <b>J</b> | 1.9              | U        | 1.9              | U        | 1.9              | U        | 1.9              | U        | 1.9                 | U        |
| Chloromethane                                                                  | 5                                             | 2.3              | U        | 0.10             | U        | 2.3              | U        | 2.3              | U        | 2.3              | U        | 2.3              | U        | 2.3                 | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8              | U        | <b>0.36</b>      | <b>J</b> | 1.8              | U        | 1.8              | U        | 1.8              | U        | 1.8              | U        | 1.8                 | U        |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4              | U        | 0.10             | U        | 1.4              | U        | 1.4              | U        | 1.4              | U        | 1.4              | U        | 1.4                 | U        |
| Ethylbenzene                                                                   | 5                                             | 1.6              | U        | 0.10             | U        | 1.6              | U        | 1.6              | U        | 1.6              | U        | 1.6              | U        | 1.6                 | U        |
| Methylene chloride                                                             | 5                                             | 1.3              | U        | 0.10             | U        | 1.3              | U        | 1.3              | U        | 1.3              | U        | 1.3              | U        | 1.3                 | U        |
| Styrene                                                                        | 5                                             | 1.7              | U        | 0.10             | U        | 1.7              | U        | 1.7              | U        | 1.7              | U        | 1.7              | U        | 1.7                 | U        |
| Tetrachloroethene                                                              | 5                                             | <b>26</b>        |          | <b>20</b>        |          | <b>5.9</b>       | <b>J</b> | <b>4.5</b>       | <b>J</b> | <b>10</b>        |          | <b>17</b>        |          | <b>6.6</b>          | <b>J</b> |
| Toluene                                                                        | 5                                             | 1.6              | U        | 0.10             | U        | 1.6              | U        | 1.6              | U        | 1.6              | U        | 1.6              | U        | 1.6                 | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9              | U        | 0.10             | U        | 1.9              | U        | 1.9              | U        | 1.9              | U        | 1.9              | U        | 1.9                 | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6              | U        | 0.10             | U        | 1.6              | U        | 1.6              | U        | 1.6              | U        | 1.6              | U        | 1.6                 | U        |
| Trichloroethene                                                                | 5                                             | <b>3.1</b>       | <b>J</b> | <b>2.7</b>       |          | <b>3.8</b>       | <b>J</b> | <b>3.3</b>       | <b>J</b> | <b>3.9</b>       | <b>J</b> | <b>7.9</b>       | <b>J</b> | <b>4.6</b>          | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 2.3              | U        | 0.10             | U        | 2.3              | U        | 2.3              | U        | 2.3              | U        | 2.3              | U        | 2.3                 | U        |
| m+p Xylene                                                                     | 5                                             | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          | NA                  |          |
| o-Xylene                                                                       | 5                                             | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          | NA                  |          |
| Total Xylenes                                                                  | 5                                             | 0.10             | U        | 0.82             | U        | 0.82             | U        | 0.82             | U        | 0.82             | U        | 0.82             | U        | 0.82                | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2013             |   | 2012             |    |                  |    | 2011             |    |                  |    |                     |    |                  |    |                     |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|----|------------------|----|------------------|----|------------------|----|---------------------|----|------------------|----|---------------------|----|
|                                                                                |                                               | FSMW-4B          |   | FSMW-4B          |    | FSMW-4B          |    | FSMW-4B          |    | FSMW-4B          |    | FSMW-4B - Duplicate |    | FSMW-4B          |    | FSMW-4B - Duplicate |    |
|                                                                                |                                               | Jul-13           |   | Nov-12           |    | Jul-12           |    | Apr-12           |    | Dec-11           |    | Dec-11              |    | Jul-11           |    | Jul-11              |    |
|                                                                                |                                               | 137-147 feet bgs |   | 137-147 feet bgs |    | 137-147 feet bgs |    | 137-147 feet bgs |    | 137-147 feet bgs |    | 137-147 feet bgs    |    | 137-147 feet bgs |    | 137-147 feet bgs    |    |
|                                                                                |                                               | (µg/L)           |   | (µg/L)           |    | (µg/L)           |    | (µg/L)           |    | (µg/L)           |    | (µg/L)              |    | (µg/L)           |    | (µg/L)              |    |
| Analyte                                                                        |                                               |                  |   |                  |    |                  |    |                  |    |                  |    |                     |    |                  |    |                     |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1              | U | 2.1              | U  | 2.1              | U  | 2.1              | U  | 2.1              | U  | 2.1                 | U  | 0.10             | U  | 0.10                | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5              | U | 1.5              | U  | 1.5              | U  | 1.5              | U  | 1.5              | U  | 1.5                 | U  | 0.10             | U  | 0.10                | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9              | U | 1.9              | U  | 1.9              | U  | 1.9              | U  | 1.9              | U  | 1.9                 | U  | 0.10             | U  | 0.10                | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7              | U | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7                 | U  | 0.10             | U  | 0.10                | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5              | U | 2.5              | UJ | 2.5              | U  | 2.5              | U  | 2.5              | U  | 2.5                 | U  | 0.10             | U  | 0.10                | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83             | U | 0.83             | U  | 0.83             | U  | 0.83             | U  | 0.83             | U  | 0.83                | U  | 0.10             | U  | 0.10                | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7              | U | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7                 | U  | 0.10             | U  | 0.10                | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5              | U | 1.5              | U  | 4.5              | J  | 1.5              | U  | 1.5              | UJ | 1.5                 | UJ | 0.10             | UJ | 0.10                | UJ |
| 2-Hexanone                                                                     | 50                                            | 1.8              | U | 1.8              | U  | 1.8              | U  | 1.8              | U  | 1.8              | UJ | 1.8                 | UJ | 0.10             | U  | 0.10                | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7              | U | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7                 | U  | 0.10             | U  | 0.10                | U  |
| Acetone                                                                        | 50                                            | 1.9              | U | 1.9              | U  | 2.1              | UJ | 1.9              | U  | 1.9              | UJ | 1.9                 | UJ | 0.69             | UJ | 0.86                | UJ |
| Benzene                                                                        | 1                                             | 1.6              | U | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6                 | U  | 0.10             | U  | 0.10                | U  |
| Bromodichloromethane                                                           | 50                                            | 1.5              | U | 1.5              | U  | 1.5              | U  | 1.5              | U  | 1.5              | U  | 1.5                 | U  | 0.10             | U  | 0.10                | U  |
| Bromoform                                                                      | 50                                            | 5.0              | U | 5.0              | UJ | 5.0              | U  | 5.0              | U  | 5.0              | UJ | 5.0                 | U  | 0.10             | U  | 0.10                | U  |
| Bromomethane                                                                   | 5                                             | 4.3              | U | 4.3              | UJ | 4.3              | U  | 4.3              | UJ | 4.3              | U  | 4.3                 | U  | 0.10             | U  | 0.10                | U  |
| Carbon disulfide                                                               | 60                                            | 2.1              | U | 2.1              | U  | 2.1              | U  | 2.1              | U  | 2.1              | U  | 2.1                 | U  | 0.10             | U  | 0.10                | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0              | U | 2.0              | U  | 2.0              | U  | 2.0              | U  | 2.0              | U  | 2.0                 | U  | 0.25             | J  | 0.24                | J  |
| Chlorobenzene                                                                  | 5                                             | 1.6              | U | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6                 | U  | 0.10             | U  | 0.10                | U  |
| Chlorobromomethane                                                             | 5                                             | 1.7              | U | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7                 | U  | 0.10             | U  | 0.10                | U  |
| Chloroethane                                                                   | 5                                             | 2.5              | U | 2.5              | U  | 2.5              | U  | 2.5              | U  | 2.5              | U  | 2.5                 | U  | 0.10             | U  | 0.10                | U  |
| Chloroform                                                                     | 7                                             | 1.9              | U | 1.9              | U  | 1.9              | U  | 1.9              | U  | 1.9              | U  | 1.9                 | U  | 0.19             | U  | 0.19                | U  |
| Chloromethane                                                                  | 5                                             | 2.3              | U | 2.3              | U  | 2.3              | U  | 2.3              | U  | 2.3              | U  | 2.3                 | U  | 0.10             | U  | 0.10                | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8              | U | 1.8              | U  | 1.8              | U  | 1.8              | U  | 1.8              | U  | 1.8                 | U  | 0.67             | J  | 0.67                | J  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4              | U | 1.4              | U  | 1.4              | U  | 1.4              | U  | 1.4              | U  | 1.4                 | U  | 0.10             | U  | 0.10                | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6              | U | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6                 | U  | 0.10             | U  | 0.10                | U  |
| Methylene chloride                                                             | 5                                             | 1.3              | U | 1.3              | U  | 1.3              | U  | 1.3              | U  | 1.3              | U  | 1.3                 | U  | 0.45             | U  | 0.46                | U  |
| Styrene                                                                        | 5                                             | 1.7              | U | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7              | U  | 1.7                 | U  | 0.10             | U  | 0.10                | U  |
| Tetrachloroethene                                                              | 5                                             | 3.8              | J | 13               |    | 22               |    | 14               |    | 6.4              | U  | 8.1                 | U  | 13               |    | 12                  |    |
| Toluene                                                                        | 5                                             | 1.6              | U | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6                 | U  | 0.10             | U  | 0.10                | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9              | U | 1.9              | U  | 1.9              | U  | 1.9              | U  | 1.9              | U  | 1.9                 | U  | 0.10             | U  | 0.10                | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6              | U | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6              | U  | 1.6                 | U  | 0.10             | U  | 0.10                | U  |
| Trichloroethene                                                                | 5                                             | 4.1              | J | 3.1              | J  | 5.5              | J  | 6.6              | J  | 4.1              | J  | 4.3                 | J  | 4.9              | J  | 4.8                 | J  |
| Vinyl chloride                                                                 | 2                                             | 2.3              | U | 2.3              | U  | 2.3              | U  | 2.3              | U  | 2.3              | U  | 2.3                 | U  | 0.10             | U  | 0.10                | U  |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |    | NA               |    | NA               |    | NA               |    | NA                  |    | NA               |    | NA                  |    |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |    | NA               |    | NA               |    | NA               |    | NA                  |    | NA               |    | NA                  |    |
| Total Xylenes                                                                  | 5                                             | 0.82             | U | 0.82             | U  | 0.82             | U  | 0.82             | U  | 0.82             | U  | 0.10                | U  | 0.10             | U  | 0.10                | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2011             |    | 2010             |     |                  |    |                  |    |                     |     | 2009             |     |                  |     |                     |     |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|------------------|-----|------------------|----|------------------|----|---------------------|-----|------------------|-----|------------------|-----|---------------------|-----|
|                                                                                |                                               | FSMW-4B          |    | FSMW-4B          |     | FSMW-4B          |    | FSMW-4B          |    | FSMW-4B - Duplicate |     | FSMW-4B          |     | FSMW-4B          |     | FSMW-4B - Duplicate |     |
|                                                                                |                                               | Mar-11           |    | Dec-10           |     | Sep-10           |    | Mar-10           |    | Mar-10              |     | Dec-09           |     | Sep-09           |     | Sep-09              |     |
|                                                                                |                                               | 137-147 feet bgs |    | 137-147 feet bgs |     | 137-147 feet bgs |    | 137-147 feet bgs |    | 137-147 feet bgs    |     | 137-147 feet bgs |     | 137-147 feet bgs |     | 137-147 feet bgs    |     |
|                                                                                |                                               | (µg/L)           |    | (µg/L)           |     | (µg/L)           |    | (µg/L)           |    | (µg/L)              |     | (µg/L)           |     | (µg/L)           |     | (µg/L)              |     |
| Analyte                                                                        |                                               |                  |    |                  |     |                  |    |                  |    |                     |     |                  |     |                  |     |                     |     |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | UJ | 0.10             | U   | 0.10             | U  | 0.10             | U* | 0.10                | U*  | 0.10             | U*  | 0.10             | U*  | 0.10                | U*  |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U* | 0.10                | U*  | 0.10             | U*  | 0.10             | U*  | 0.10                | U*  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Acetone                                                                        | 50                                            | 0.24             | UJ | 0.76             | JB* | 0.82             | J  | 0.10             | U* | 0.48                | JB* | 0.39             | JB* | 0.82             | JB* | 0.93                | JB* |
| Benzene                                                                        | 1                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Bromoform                                                                      | 50                                            | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Bromomethane                                                                   | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U* | 0.10                | U*  | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Carbon disulfide                                                               | 60                                            | 0.19             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Carbon tetrachloride                                                           | 5                                             | 0.33             | J  | 0.32             | J   | 0.23             | J  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Chloroethane                                                                   | 5                                             | 0.10             | UJ | 0.10             | U   | 0.10             | U  | 0.33             | J  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Chloroform                                                                     | 7                                             | 0.15             | U  | 0.14             | J   | 0.10             | J  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Chloromethane                                                                  | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U* | 0.10             | U* | 0.10                | U*  | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.40             | J  | 0.46             | J   | 0.34             | J  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Methylene chloride                                                             | 5                                             | 0.28             | U  | 0.43             | JB  | 0.20             | JB | 0.36             | JB | 0.38                | JB  | 0.46             | JB  | 0.41             | JB  | 0.39                | JB  |
| Styrene                                                                        | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Tetrachloroethene                                                              | 5                                             | 7.5              | J  | 8.4              | J   | 5.2              | J  | 5.0              | J  | 5.1                 | J   | 10               |     | 28               |     | 27                  |     |
| Toluene                                                                        | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.13                | J   |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| Trichloroethene                                                                | 5                                             | 3.6              | J  | 4.5              | J   | 3.3              | J  | 0.77             | J  | 0.78                | J   | 0.26             | J   | 0.47             | J   | 0.49                | J   |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U  | 0.10             | U   | 0.10             | U* | 0.10             | U* | 0.10                | U*  | 0.10             | U   | 0.10             | U   | 0.10                | U   |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA               |     | NA               |    | NA               |    | NA                  |     | NA               |     | NA               |     | NA                  |     |
| o-Xylene                                                                       | 5                                             | NA               |    | NA               |     | NA               |    | NA               |    | NA                  |     | NA               |     | NA               |     | NA                  |     |
| Total Xylenes                                                                  | 5                                             | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U   | 0.10             | U   | 0.12             | J   | 0.10                | U   |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2009             |           |                  |           | 2008             |          |                     |          |                  |           |                  |   |                     |   |                  |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|-----------|------------------|-----------|------------------|----------|---------------------|----------|------------------|-----------|------------------|---|---------------------|---|------------------|----------|
|                                                                                |                                               | FSMW-4B          |           | FSMW-4B          |           | FSMW-4B          |          | FSMW-4B - Duplicate |          | FSMW-4B          |           | FSMW-4B          |   | FSMW-4B - Duplicate |   | FSMW-4B          |          |
|                                                                                |                                               | Jun-09           |           | Mar-09           |           | Dec-08           |          | Dec-08              |          | Sep-08           |           | Jun-08           |   | Jun-08              |   | Mar-08           |          |
|                                                                                |                                               | 137-147 feet bgs |           | 137-147 feet bgs |           | 137-147 feet bgs |          | 137-147 feet bgs    |          | 137-147 feet bgs |           | 137-147 feet bgs |   | 137-147 feet bgs    |   | 137-147 feet bgs |          |
|                                                                                |                                               | (µg/L)           |           | (µg/L)           |           | (µg/L)           |          | (µg/L)              |          | (µg/L)           |           | (µg/L)           |   | (µg/L)              |   | (µg/L)           |          |
| Analyte                                                                        |                                               |                  |           |                  |           |                  |          |                     |          |                  |           |                  |   |                     |   |                  |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U         | 0.10             | U*        | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U         | 0.10             | U*        | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U         | 0.10             | U*        | 0.10             | U*       | 0.10                | U*       | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Acetone                                                                        | 50                                            | <b>1.6</b>       | <b>JB</b> | <b>0.45</b>      | <b>JB</b> | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Benzene                                                                        | 1                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Bromoform                                                                      | 50                                            | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Bromomethane                                                                   | 5                                             | 0.10             | U         | 0.10             | U*        | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Carbon disulfide                                                               | 60                                            | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Chloroethane                                                                   | 5                                             | 0.10             | U         | 0.10             | U*        | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Chloroform                                                                     | 7                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Chloromethane                                                                  | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Methylene chloride                                                             | 5                                             | <b>0.36</b>      | <b>JB</b> | 0.10             | U         | 0.10             | U        | 0.10                | U        | <b>0.26</b>      | <b>JB</b> | 0.10             | U | 0.10                | U | 0.10             | U        |
| Styrene                                                                        | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Tetrachloroethene                                                              | 5                                             | <b>19</b>        |           | <b>33</b>        | <b>B</b>  | <b>63</b>        |          | <b>62</b>           |          | <b>33</b>        |           | <b>14</b>        |   | <b>13</b>           |   | <b>50</b>        |          |
| Toluene                                                                        | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| Trichloroethene                                                                | 5                                             | <b>0.29</b>      | <b>J</b>  | <b>0.51</b>      | <b>J</b>  | <b>0.53</b>      | <b>J</b> | <b>0.63</b>         | <b>J</b> | <b>0.34</b>      | <b>J</b>  | 0.10             | U | 0.10                | U | <b>0.98</b>      | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 0.10             | U        |
| m+p Xylene                                                                     | 5                                             | NA               |           | NA               |           | NA               |          | NA                  |          | NA               |           | NA               |   | NA                  |   | NA               |          |
| o-Xylene                                                                       | 5                                             | NA               |           | NA               |           | NA               |          | NA                  |          | NA               |           | NA               |   | NA                  |   | NA               |          |
| Total Xylenes                                                                  | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10                | U        | 0.10             | U         | 0.10             | U | 0.10                | U | 5                | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2008                |   | 2007             |    |                  |   |                  |    |                  |   |                  |    | 2006             |    | 2015           |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|---|------------------|----|------------------|---|------------------|----|------------------|---|------------------|----|------------------|----|----------------|---|
|                                                                                |                                               | FSMW-4B - Duplicate |   | FSMW-4B          |    | FSMW-4B          |   | FSMW-4B          |    | FSMW-4B          |   | FSMW-4B          |    | FSMW-4B          |    | FSMW-5A        |   |
|                                                                                |                                               | Mar-08              |   | Dec-07           |    | Aug-07           |   | May-07           |    | Feb-07           |   | Nov-06           |    | Aug-06           |    | Oct-15         |   |
|                                                                                |                                               | 137-147 feet bgs    |   | 137-147 feet bgs |    | 137-147 feet bgs |   | 137-147 feet bgs |    | 137-147 feet bgs |   | 137-147 feet bgs |    | 137-147 feet bgs |    | 60-70 feet bgs |   |
|                                                                                |                                               | (µg/L)              |   | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |    | (µg/L)         |   |
| Analyte                                                                        |                                               |                     |   |                  |    |                  |   |                  |    |                  |   |                  |    |                  |    |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 2.1            | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.5            | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.9            | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.7            | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 2.5            | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | UJ | 0.83           | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.7            | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10                | U | 10               | UJ | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | UJ | 1.5            | U |
| 2-Hexanone                                                                     | 50                                            | 0.10                | U | 10               | UJ | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.8            | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10                | U | 10               | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.7            | U |
| Acetone                                                                        | 50                                            | 0.10                | U | 10               | UJ | 0.10             | U | 10               | UJ | 10               | U | 10               | UJ | 10               | U  | 1.9            | U |
| Benzene                                                                        | 1                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.6            | U |
| Bromodichloromethane                                                           | 50                                            | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.5            | U |
| Bromoform                                                                      | 50                                            | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 5.0            | U |
| Bromomethane                                                                   | 5                                             | 0.10                | U | 5                | UJ | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 4.3            | U |
| Carbon disulfide                                                               | 60                                            | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | UJ | 10               | U  | 2.1            | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 2.0            | U |
| Chlorobenzene                                                                  | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.6            | U |
| Chlorobromomethane                                                             | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.7            | U |
| Chloroethane                                                                   | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 2.5            | U |
| Chloroform                                                                     | 7                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.9            | U |
| Chloromethane                                                                  | 5                                             | 0.10                | U | 5                | UJ | 0.10             | U | 10               | UJ | 10               | U | 10               | U  | 10               | U  | 2.3            | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.8            | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.4            | U |
| Ethylbenzene                                                                   | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.6            | U |
| Methylene chloride                                                             | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.3            | U |
| Styrene                                                                        | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.7            | U |
| Tetrachloroethene                                                              | 5                                             | 44                  |   | 40               |    | 25               |   | 11               |    | 26               |   | 28               | J  | 49               |    | 2.1            | U |
| Toluene                                                                        | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.6            | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10                | U | 5                | U  | 0.10             | U | 13               |    | 0.15             | J | 10               | U  | 10               | U  | 1.9            | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10                | U | 5                | U  | 0.10             | U | 10               | U  | 10               | U | 10               | U  | 10               | U  | 1.6            | U |
| Trichloroethene                                                                | 5                                             | 1.0                 | J | 5                | U  | 0.49             | J | 10               | U  | 0.7              | J | 0.8              | J  | 10               | U  | 1.9            | U |
| Vinyl chloride                                                                 | 2                                             | 0.10                | U | 5                | U  | 0.10             | U | 10               | UJ | 10               | U | 10               | U  | 10               | U  | 2.3            | U |
| m+p Xylene                                                                     | 5                                             | NA                  |   | NA               |    | NA               |   | NA               |    | NA               |   | NA               |    | NA               |    | NA             |   |
| o-Xylene                                                                       | 5                                             | NA                  |   | NA               |    | NA               |   | NA               |    | NA               |   | NA               |    | NA               |    | NA             |   |
| Total Xylenes                                                                  | 5                                             | 0.10                | U | 0.10             | U  | 10               | U | 10               | U  | 10               | U | 10               | U  | 0.82             | U  | 0.82           | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2014           |    | 2013           |   | 2010           |    | 2009           |     |                     |     | 2008           |    | 2007           |   | 2006           |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|---|----------------|----|----------------|-----|---------------------|-----|----------------|----|----------------|---|----------------|----|
|                                                                                |                                               | FSMW-5A        |    | FSMW-5A        |   | FSMW-5A        |    | FSMW-5A        |     | FSMW-5A - Duplicate |     | FSMW-5A        |    | FSMW-5A        |   | FSMW-5A        |    |
|                                                                                |                                               | Oct-14         |    | Oct-13         |   | Sep-10         |    | Sep-09         |     | Sep-09              |     | Sep-08         |    | Aug-07         |   | Aug-06         |    |
|                                                                                |                                               | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |    | 60-70 feet bgs |     | 60-70 feet bgs      |     | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |    |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |     | (µg/L)              |     | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    |
| Analyte                                                                        |                                               |                |    |                |   |                |    |                |     |                     |     |                |    |                |   |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1            | U  | 2.1            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5            | U  | 1.5            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9            | U  | 1.9            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7            | U  | 1.7            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5            | U  | 2.5            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83           | U  | 0.83           | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7            | U  | 1.7            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5            | U  | 1.5            | U | 0.10           | U  | 0.10           | U*  | 0.10                | U*  | 0.10           | U  | 0.10           | U | 10             | U  |
| 2-Hexanone                                                                     | 50                                            | 1.8            | U  | 1.8            | U | 0.10           | U  | 0.10           | U*  | 0.10                | U*  | 0.10           | U  | 0.10           | U | 10             | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7            | U  | 1.7            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Acetone                                                                        | 50                                            | 1.9            | U  | 4.9            | U | 1.8            | JB | 1.4            | JB* | 1.1                 | JB* | 0.10           | U* | 0.10           | U | 10             | U  |
| Benzene                                                                        | 1                                             | 1.6            | U  | 1.6            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Bromodichloromethane                                                           | 50                                            | 1.5            | U  | 1.5            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Bromoform                                                                      | 50                                            | 5.0            | UJ | 5.0            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Bromomethane                                                                   | 5                                             | 4.3            | U  | 4.3            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | UJ |
| Carbon disulfide                                                               | 60                                            | 2.1            | U  | 2.1            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0            | U  | 2.0            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Chlorobenzene                                                                  | 5                                             | 1.6            | U  | 1.6            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Chlorobromomethane                                                             | 5                                             | 1.7            | U  | 1.7            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Chloroethane                                                                   | 5                                             | 2.5            | U  | 2.5            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | UJ |
| Chloroform                                                                     | 7                                             | 1.9            | U  | 1.9            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Chloromethane                                                                  | 5                                             | 2.3            | U  | 2.3            | U | 0.10           | U* | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8            | U  | 1.8            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4            | U  | 1.4            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6            | U  | 1.6            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Methylene chloride                                                             | 5                                             | 1.3            | U  | 1.3            | U | 0.21           | JB | 0.37           | JB  | 0.43                | JB  | 0.26           | JB | 0.10           | U | 10             | U  |
| Styrene                                                                        | 5                                             | 1.7            | U  | 1.7            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Tetrachloroethene                                                              | 5                                             | 2.1            | U  | 4.0            | U | 0.36           | J  | 0.10           | U   | 0.17                | J   | 0.10           | U  | 0.51           | J | 10             | U  |
| Toluene                                                                        | 5                                             | 1.6            | U  | 1.6            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9            | U  | 1.9            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6            | U  | 1.6            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Trichloroethene                                                                | 5                                             | 1.9            | U  | 1.9            | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| Vinyl chloride                                                                 | 2                                             | 2.3            | U  | 2.3            | U | 0.10           | U* | 0.10           | U   | 0.10                | U   | 0.10           | U  | 0.10           | U | 10             | U  |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |   | NA             |    | NA             |     | NA                  |     | NA             |    | NA             |   | NA             |    |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |   | NA             |    | NA             |     | NA                  |     | NA             |    | NA             |   | NA             |    |
| Total Xylenes                                                                  | 5                                             | 0.82           | U  | 0.10           | U | 0.10           | U  | 0.10           | U   | 0.10                | U   | 0.10           | U  | 10             | U | 0.82           | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2015             |   | 2014             |    | 2013             |   | 2010             |    | 2009             |     | 2008             |    | 2007             |   | 2006             |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|----|------------------|---|------------------|----|------------------|-----|------------------|----|------------------|---|------------------|----|
|                                                                                |                                               | FSMW-5B          |   | FSMW-5B          |    | FSMW-5B          |   | FSMW-5B          |    | FSMW-5B          |     | FSMW-5B          |    | FSMW-5B          |   | FSMW-5B          |    |
|                                                                                |                                               | Oct-15           |   | Oct-14           |    | Oct-13           |   | Sep-10           |    | Sep-09           |     | Sep-08           |    | Aug-07           |   | Aug-06           |    |
|                                                                                |                                               | 130-140 feet bgs |   | 130-140 feet bgs |    | 130-140 feet bgs |   | 130-140 feet bgs |    | 130-140 feet bgs |     | 130-140 feet bgs |    | 130-140 feet bgs |   | 130-140 feet bgs |    |
|                                                                                |                                               | (µg/L)           |   | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |     | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    |
| Analyte                                                                        |                                               |                  |   |                  |    |                  |   |                  |    |                  |     |                  |    |                  |   |                  |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1              | U | 2.1              | U  | 2.1              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5              | U | 1.5              | U  | 1.5              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9              | U | 1.9              | U  | 1.9              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7              | U | 1.7              | U  | 1.7              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5              | U | 2.5              | U  | 2.5              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83             | U | 0.83             | U  | 0.83             | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7              | U | 1.7              | U  | 1.7              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5              | U | 1.5              | U  | 1.5              | U | 0.10             | U  | 0.10             | U*  | 0.10             | U  | 0.10             | U | 10               | U  |
| 2-Hexanone                                                                     | 50                                            | 1.8              | U | 1.8              | U  | 1.8              | U | 0.10             | U  | 0.10             | U*  | 0.10             | U  | 0.10             | U | 10               | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7              | U | 1.7              | U  | 1.7              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Acetone                                                                        | 50                                            | 1.9              | U | 1.9              | U  | 1.9              | U | 0.58             | J  | 0.90             | JB* | 0.10             | U  | 0.10             | U | 10               | U  |
| Benzene                                                                        | 1                                             | 1.6              | U | 1.6              | U  | 1.6              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Bromodichloromethane                                                           | 50                                            | 1.5              | U | 1.5              | U  | 1.5              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Bromoform                                                                      | 50                                            | 5.0              | U | 5.0              | UJ | 5.0              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Bromomethane                                                                   | 5                                             | 4.3              | U | 4.3              | U  | 4.3              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | UJ |
| Carbon disulfide                                                               | 60                                            | 2.1              | U | 2.1              | U  | 2.1              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0              | U | 2.0              | U  | 2.0              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Chlorobenzene                                                                  | 5                                             | 1.6              | U | 1.6              | U  | 1.6              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Chlorobromomethane                                                             | 5                                             | 1.7              | U | 1.7              | U  | 1.7              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Chloroethane                                                                   | 5                                             | 2.5              | U | 2.5              | U  | 2.5              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | UJ |
| Chloroform                                                                     | 7                                             | 1.9              | U | 1.9              | U  | 1.9              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Chloromethane                                                                  | 5                                             | 2.3              | U | 2.3              | U  | 2.3              | U | 0.10             | U* | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8              | U | 1.8              | U  | 1.8              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4              | U | 1.4              | U  | 1.4              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6              | U | 1.6              | U  | 1.6              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Methylene chloride                                                             | 5                                             | 1.3              | U | 1.3              | U  | 1.3              | U | 0.17             | JB | 0.40             | JB  | 0.28             | JB | 0.10             | U | 10               | U  |
| Styrene                                                                        | 5                                             | 1.7              | U | 1.7              | U  | 1.7              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Tetrachloroethene                                                              | 5                                             | 2.1              | U | 2.1              | U  | 2.1              | U | 0.45             | J  | 0.28             | J   | 0.10             | U  | 0.10             | U | 10               | U  |
| Toluene                                                                        | 5                                             | 1.6              | U | 1.6              | U  | 1.6              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9              | U | 1.9              | U  | 1.9              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6              | U | 1.6              | U  | 1.6              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Trichloroethene                                                                | 5                                             | 1.9              | U | 1.9              | U  | 1.9              | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| Vinyl chloride                                                                 | 2                                             | 2.3              | U | 2.3              | U  | 2.3              | U | 0.10             | U* | 0.10             | U   | 0.10             | U  | 0.10             | U | 10               | U  |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |    | NA               |   | NA               |    | NA               |     | NA               |    | NA               |   | NA               |    |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |    | NA               |   | NA               |    | NA               |     | NA               |    | NA               |   | NA               |    |
| Total Xylenes                                                                  | 5                                             | 0.82             | U | 0.82             | U  | 0.10             | U | 0.10             | U  | 0.10             | U   | 0.10             | U  | 10               | U | 0.82             | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2018           |   | 2016           |   | 2015           |   |                |   |                     |   |                |   | 2014           |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|---|----------------|---|----------------|---|----------------|---|---------------------|---|----------------|---|----------------|----------|
|                                                                                |                                               | FSMW-6A        |   | FSMW-6A        |   | FSMW-6A        |   | FSMW-6A        |   | FSMW-6A - Duplicate |   | FSMW-6A        |   | FSMW-6A        |          |
|                                                                                |                                               | Mar-18         |   | Dec-16         |   | Dec-15         |   | Sep-15         |   | Sep-15              |   | Jul-15         |   | Apr-15         |          |
|                                                                                |                                               | 56-59 feet bgs |   | 56-59 feet bgs |   | 56-59 feet bgs |   | 56-59 feet bgs |   | 56-59 feet bgs      |   | 56-59 feet bgs |   | 56-59 feet bgs |          |
|                                                                                |                                               | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)              |   | (µg/L)         |   | (µg/L)         |          |
| Analyte                                                                        |                                               |                |   |                |   |                |   |                |   |                     |   |                |   |                |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 2.1            | U | 2.1                 | U | 2.1            | U | 0.10           | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.5            | U | 1.5                 | U | 1.5            | U | 0.10           | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.9            | U | 1.9                 | U | 1.9            | U | 0.10           | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.7            | U | 1.7                 | U | 1.7            | U | 0.10           | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 2.5            | U | 2.5                 | U | 2.5            | U | 0.10           | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U | 0.10           | U | 0.10           | U | 0.83           | U | 0.83                | U | 0.83           | U | 0.10           | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.7            | U | 1.7                 | U | 1.7            | U | 0.10           | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U | 0.10           | U | 0.10           | U | 1.5            | U | 1.5                 | U | 1.5            | U | 0.10           | U        |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U | 0.10           | U | 0.10           | U | 1.8            | U | 1.8                 | U | 1.8            | U | 0.10           | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U | 0.10           | U | 0.10           | U | 1.7            | U | 1.7                 | U | 1.7            | U | 0.10           | U        |
| Acetone                                                                        | 50                                            | 0.10           | U | 0.10           | U | 0.10           | U | 1.9            | U | 1.9                 | U | 1.9            | U | 0.10           | U        |
| Benzene                                                                        | 1                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.6            | U | 1.6                 | U | 1.6            | U | 0.10           | U        |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U | 0.10           | U | 0.10           | U | 1.5            | U | 1.5                 | U | 1.5            | U | 0.10           | U        |
| Bromoform                                                                      | 50                                            | 0.10           | U | 0.10           | U | 0.10           | U | 5.0            | U | 5.0                 | U | 5.0            | U | 0.10           | U        |
| Bromomethane                                                                   | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 4.3            | U | 4.3                 | U | 4.3            | U | 0.10           | U        |
| Carbon disulfide                                                               | 60                                            | 0.10           | U | 0.10           | U | 0.10           | U | 2.1            | U | 2.1                 | U | 2.1            | U | 0.10           | U        |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 2.0            | U | 2.0                 | U | 2.0            | U | 0.10           | U        |
| Chlorobenzene                                                                  | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.6            | U | 1.6                 | U | 1.6            | U | 0.10           | U        |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.7            | U | 1.7                 | U | 1.7            | U | 0.10           | U        |
| Chloroethane                                                                   | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 2.5            | U | 2.5                 | U | 2.5            | U | 0.10           | U        |
| Chloroform                                                                     | 7                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.9            | U | 1.9                 | U | 1.9            | U | 0.10           | U        |
| Chloromethane                                                                  | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 2.3            | U | 2.3                 | U | 2.3            | U | 0.10           | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.8            | U | 1.8                 | U | 1.8            | U | 0.12           | U        |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U | 0.10           | U | 0.10           | U | 1.4            | U | 1.4                 | U | 1.4            | U | 0.10           | U        |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.6            | U | 1.6                 | U | 1.6            | U | 0.10           | U        |
| Methylene chloride                                                             | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.3            | U | 1.3                 | U | 1.3            | U | 0.10           | U        |
| Styrene                                                                        | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.7            | U | 1.7                 | U | 1.7            | U | 0.10           | U        |
| Tetrachloroethene                                                              | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 2.1            | U | 2.1                 | U | 2.1            | U | 1.8            | U        |
| Toluene                                                                        | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.6            | U | 1.6                 | U | 1.6            | U | 0.10           | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.9            | U | 1.9                 | U | 1.9            | U | <b>0.15</b>    | <b>J</b> |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U | 0.10           | U | 0.10           | U | 1.6            | U | 1.6                 | U | 1.6            | U | 0.10           | U        |
| Trichloroethene                                                                | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 1.9            | U | 1.9                 | U | 1.9            | U | 0.10           | U        |
| Vinyl chloride                                                                 | 2                                             | 0.10           | U | 0.10           | U | 0.10           | U | 2.3            | U | 2.3                 | U | 2.3            | U | 0.10           | U        |
| m+p Xylene                                                                     | 5                                             | NA             |   | NA             |   | NA             |   | NA             |   | NA                  |   | NA             |   | NA             |          |
| o-Xylene                                                                       | 5                                             | NA             |   | NA             |   | NA             |   | NA             |   | NA                  |   | NA             |   | NA             |          |
| Total Xylenes                                                                  | 5                                             | 0.10           | U | 0.10           | U | 0.10           | U | 0.82           | U | 0.82                | U | 0.10           | U | 0.82           | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2014           |    |                |   |                |    | 2013           |   |                |   |                |    | 2012           |    |                |    |         |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|---|----------------|----|----------------|---|----------------|---|----------------|----|----------------|----|----------------|----|---------|----|
|                                                                                |                                               | FSMW-6A        |    | FSMW-6A        |   | FSMW-6A        |    | FSMW-6A        |   | FSMW-6A        |   | FSMW-6A        |    | FSMW-6A        |    | FSMW-6A        |    | FSMW-6A |    |
|                                                                                |                                               | Sep-14         |    | Jun-14         |   | Mar-14         |    | Oct-13         |   | Jul-13         |   | Nov-12         |    | Jul-12         |    | Apr-12         |    |         |    |
|                                                                                |                                               | 56-59 feet bgs |    | 56-59 feet bgs |   | 56-59 feet bgs |    | 56-59 feet bgs |   | 56-59 feet bgs |   | 56-59 feet bgs |    | 56-59 feet bgs |    | 56-59 feet bgs |    |         |    |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |   | (µg/L)         |   | (µg/L)         |    | (µg/L)         |    | (µg/L)         |    | (µg/L)  |    |
| Analyte                                                                        |                                               |                |    |                |   |                |    |                |   |                |   |                |    |                |    |                |    |         |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1            | U  | 2.1            | U | 2.1            | U  | 2.1            | U | 2.1            | U | 2.1            | U  | 2.1            | U  | 2.1            | U  | 2.1     | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5            | U  | 1.5            | U | 1.5            | U  | 1.5            | U | 1.5            | U | 1.5            | U  | 1.5            | U  | 1.5            | U  | 1.5     | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9            | U  | 1.9            | U | 1.9            | U  | 1.9            | U | 1.9            | U | 1.9            | U  | 1.9            | U  | 1.9            | U  | 1.9     | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7            | U  | 1.7            | U | 1.7            | U  | 1.7            | U | 1.7            | U | 1.7            | U  | 1.7            | U  | 1.7            | U  | 1.7     | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5            | U  | 2.5            | U | 2.5            | U  | 2.5            | U | 2.5            | U | 2.5            | U  | 2.5            | U  | 2.5            | U  | 2.5     | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83           | U  | 0.83           | U | 0.83           | U  | 0.83           | U | 0.83           | U | 0.83           | U  | 0.83           | U  | 0.83           | U  | 0.83    | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7            | U  | 1.7            | U | 1.7            | U  | 1.7            | U | 1.7            | U | 1.7            | U  | 1.7            | U  | 1.7            | U  | 1.7     | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5            | U  | 1.5            | U | 1.5            | UJ | 1.5            | U | 1.5            | U | 1.5            | UJ | 1.5            | UJ | 1.5            | UJ | 1.5     | U  |
| 2-Hexanone                                                                     | 50                                            | 1.8            | U  | 1.8            | U | 1.8            | U  | 1.8            | U | 1.8            | U | 1.8            | UJ | 1.8            | U  | 1.8            | U  | 1.8     | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7            | U  | 1.7            | U | 1.7            | U  | 1.7            | U | 1.7            | U | 1.7            | U  | 1.7            | U  | 1.7            | U  | 1.7     | U  |
| Acetone                                                                        | 50                                            | 1.9            | U  | 1.9            | U | 1.9            | U  | 1.9            | U | 1.9            | U | 1.9            | UJ | 1.9            | UJ | 1.9            | UJ | 1.9     | U  |
| Benzene                                                                        | 1                                             | 1.6            | U  | 1.6            | U | 1.6            | U  | 1.6            | U | 1.6            | U | 1.6            | U  | 1.6            | U  | 1.6            | U  | 1.6     | U  |
| Bromodichloromethane                                                           | 50                                            | 1.5            | U  | 1.5            | U | 1.5            | U  | 1.5            | U | 1.5            | U | 1.5            | U  | 1.5            | U  | 1.5            | U  | 1.5     | U  |
| Bromoform                                                                      | 50                                            | 5.0            | UJ | 5.0            | U | 5.0            | U  | 5.0            | U | 5.0            | U | 5.0            | UJ | 5.0            | U  | 5.0            | U  | 5.0     | U  |
| Bromomethane                                                                   | 5                                             | 4.3            | U  | 4.3            | U | 4.3            | UJ | 4.3            | U | 4.3            | U | 4.3            | U  | 4.3            | U  | 4.3            | U  | 4.3     | UJ |
| Carbon disulfide                                                               | 60                                            | 2.1            | U  | 2.1            | U | 2.1            | U  | 2.1            | U | 2.1            | U | 2.1            | U  | 2.1            | U  | 2.1            | U  | 2.1     | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0            | U  | 2.0            | U | 2.0            | U  | 2.0            | U | 2.0            | U | 2.0            | U  | 2.0            | U  | 2.0            | U  | 2.0     | U  |
| Chlorobenzene                                                                  | 5                                             | 1.6            | U  | 1.6            | U | 1.6            | U  | 1.6            | U | 1.6            | U | 1.6            | U  | 1.6            | U  | 1.6            | U  | 1.6     | U  |
| Chlorobromomethane                                                             | 5                                             | 1.7            | U  | 1.7            | U | 1.7            | U  | 1.7            | U | 1.7            | U | 1.7            | U  | 1.7            | U  | 1.7            | U  | 1.7     | U  |
| Chloroethane                                                                   | 5                                             | 2.5            | U  | 2.5            | U | 2.5            | U  | 2.5            | U | 2.5            | U | 2.5            | U  | 2.5            | U  | 2.5            | U  | 2.5     | U  |
| Chloroform                                                                     | 7                                             | 1.9            | U  | 1.9            | U | 1.9            | U  | 1.9            | U | 1.9            | U | 1.9            | U  | 1.9            | U  | 1.9            | U  | 1.9     | U  |
| Chloromethane                                                                  | 5                                             | 2.3            | U  | 2.3            | U | 2.3            | U  | 2.3            | U | 2.3            | U | 2.3            | U  | 2.3            | U  | 2.3            | U  | 2.3     | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8            | U  | 1.8            | U | 1.8            | U  | 1.8            | U | 1.8            | U | 1.8            | U  | 1.8            | U  | 1.8            | U  | 1.8     | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4            | U  | 1.4            | U | 1.4            | U  | 1.4            | U | 1.4            | U | 1.4            | U  | 1.4            | U  | 1.4            | U  | 1.4     | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6            | U  | 1.6            | U | 1.6            | U  | 1.6            | U | 1.6            | U | 1.6            | U  | 1.6            | U  | 1.6            | U  | 1.6     | U  |
| Methylene chloride                                                             | 5                                             | 1.3            | J  | 1.3            | U | 1.3            | U  | 1.3            | U | 1.3            | U | 1.3            | U  | 1.3            | U  | 1.3            | U  | 1.3     | U  |
| Styrene                                                                        | 5                                             | 1.7            | U  | 1.7            | U | 1.7            | U  | 1.7            | U | 1.7            | U | 1.7            | U  | 1.7            | U  | 1.7            | U  | 1.7     | U  |
| Tetrachloroethene                                                              | 5                                             | 2.1            | U  | 5.8            | J | 7.8            | J  | 2.1            | U | 2.1            | U | 7.3            | J  | 2.1            | U  | 2.4            | J  |         |    |
| Toluene                                                                        | 5                                             | 1.6            | U  | 1.6            | U | 1.6            | U  | 1.6            | U | 1.6            | U | 1.6            | U  | 1.6            | U  | 1.6            | U  | 1.6     | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9            | U  | 1.9            | U | 1.9            | U  | 1.9            | U | 1.9            | U | 1.9            | U  | 1.9            | U  | 1.9            | U  | 1.9     | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6            | U  | 1.6            | U | 1.6            | U  | 1.6            | U | 1.6            | U | 1.6            | U  | 1.6            | U  | 1.6            | U  | 1.6     | U  |
| Trichloroethene                                                                | 5                                             | 1.9            | U  | 1.9            | U | 1.9            | U  | 1.9            | U | 1.9            | U | 1.9            | U  | 1.9            | U  | 1.9            | U  | 1.9     | U  |
| Vinyl chloride                                                                 | 2                                             | 2.3            | U  | 2.3            | U | 2.3            | U  | 2.3            | U | 2.3            | U | 2.3            | U  | 2.3            | U  | 2.3            | U  | 2.3     | U  |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |   | NA             |    | NA             |   | NA             |   | NA             |    | NA             |    | NA             |    | NA      |    |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |   | NA             |    | NA             |   | NA             |   | NA             |    | NA             |    | NA             |    | NA      |    |
| Total Xylenes                                                                  | 5                                             | 0.82           | U  | 0.82           | U | 0.82           | U  | 0.82           | U | 0.82           | U | 0.82           | U  | 0.82           | U  | 0.82           | U  | 0.82    | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2011           |          |                     |          |                |    |                |          | 2010           |            |                |           |                |            | 2009           |            |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----------|---------------------|----------|----------------|----|----------------|----------|----------------|------------|----------------|-----------|----------------|------------|----------------|------------|
|                                                                                |                                               | FSMW-6A        |          | FSMW-6A - Duplicate |          | FSMW-6A        |    | FSMW-6A        |          | FSMW-6A        |            | FSMW-6A        |           | FSMW-6A        |            | FSMW-6A        |            |
|                                                                                |                                               | Dec-11         |          | Dec-11              |          | Jul-11         |    | Mar-11         |          | Dec-10         |            | Sep-10         |           | Mar-10         |            | Dec-09         |            |
|                                                                                |                                               | 56-59 feet bgs |          | 56-59 feet bgs      |          | 56-59 feet bgs |    | 56-59 feet bgs |          | 56-59 feet bgs |            | 56-59 feet bgs |           | 56-59 feet bgs |            | 56-59 feet bgs |            |
|                                                                                |                                               | (µg/L)         |          | (µg/L)              |          | (µg/L)         |    | (µg/L)         |          | (µg/L)         |            | (µg/L)         |           | (µg/L)         |            | (µg/L)         |            |
| Analyte                                                                        |                                               |                |          |                     |          |                |    |                |          |                |            |                |           |                |            |                |            |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1            | U        | 2.1                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5            | U        | 1.5                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9            | U        | 1.9                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7            | U        | 1.7                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5            | U        | 2.5                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83           | U        | 0.83                | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7            | U        | 1.7                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5            | UJ       | 1.5                 | UJ       | 0.10           | UJ | 0.10           | UJ       | 0.10           | U          | 0.10           | U         | 0.10           | U*         | 0.10           | U*         |
| 2-Hexanone                                                                     | 50                                            | 1.8            | UJ       | 1.8                 | UJ       | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U*         | 0.10           | U*         |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7            | U        | 1.7                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Acetone                                                                        | 50                                            | 1.9            | UJ       | 1.9                 | UJ       | 0.46           | UJ | 0.34           | UJ       | <b>0.98</b>    | <b>JB*</b> | <b>1.0</b>     | <b>J</b>  | <b>0.34</b>    | <b>JB*</b> | <b>1.4</b>     | <b>JB*</b> |
| Benzene                                                                        | 1                                             | 1.6            | U        | 1.6                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Bromodichloromethane                                                           | 50                                            | 1.5            | U        | 1.5                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Bromoform                                                                      | 50                                            | 5.0            | U        | 5.0                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Bromomethane                                                                   | 5                                             | 4.3            | U        | 4.3                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U*         | 0.10           | U          |
| Carbon disulfide                                                               | 60                                            | 2.1            | U        | 2.1                 | U        | 0.10           | U  | 0.30           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | <b>0.11</b>    | <b>J</b>   |
| Carbon tetrachloride                                                           | 5                                             | 2.0            | U        | 2.0                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Chlorobenzene                                                                  | 5                                             | 1.6            | U        | 1.6                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Chlorobromomethane                                                             | 5                                             | 1.7            | U        | 1.7                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Chloroethane                                                                   | 5                                             | 2.5            | U        | 2.5                 | U        | 0.10           | U  | 0.10           | UJ       | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Chloroform                                                                     | 7                                             | 1.9            | U        | 1.9                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Chloromethane                                                                  | 5                                             | 2.3            | U        | 2.3                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | <b>0.16</b>    | <b>J*</b> | 0.10           | U*         | 0.10           | U          |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8            | U        | 1.8                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4            | U        | 1.4                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Ethylbenzene                                                                   | 5                                             | 1.6            | U        | 1.6                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Methylene chloride                                                             | 5                                             | 1.3            | U        | 1.3                 | U        | 0.38           | U  | 0.33           | U        | <b>1.2</b>     | <b>JB</b>  | <b>0.30</b>    | <b>JB</b> | <b>0.37</b>    | <b>JB</b>  | <b>0.53</b>    | <b>JB</b>  |
| Styrene                                                                        | 5                                             | 1.7            | U        | 1.7                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Tetrachloroethene                                                              | 5                                             | <b>4.9</b>     | <b>J</b> | <b>4.3</b>          | <b>J</b> | 1.3            | U  | <b>3.0</b>     | <b>J</b> | <b>0.79</b>    | <b>J</b>   | <b>0.46</b>    | <b>J</b>  | <b>1.6</b>     | <b>J</b>   | <b>0.78</b>    | <b>J</b>   |
| Toluene                                                                        | 5                                             | 1.6            | U        | 1.6                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9            | U        | 1.9                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6            | U        | 1.6                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Trichloroethene                                                                | 5                                             | 1.9            | U        | 1.9                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |
| Vinyl chloride                                                                 | 2                                             | 2.3            | U        | 2.3                 | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U*        | 0.10           | U*         | 0.10           | U          |
| m+p Xylene                                                                     | 5                                             | NA             |          | NA                  |          | NA             |    | NA             |          | NA             |            | NA             |           | NA             |            | NA             |            |
| o-Xylene                                                                       | 5                                             | NA             |          | NA                  |          | NA             |    | NA             |          | NA             |            | NA             |           | NA             |            | NA             |            |
| Total Xylenes                                                                  | 5                                             | 0.82           | U        | 0.10                | U        | 0.10           | U  | 0.10           | U        | 0.10           | U          | 0.10           | U         | 0.10           | U          | 0.10           | U          |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2009           |    |                |     |                |    | 2008           |    |                |   |                     |   |                |   |                     |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|-----|----------------|----|----------------|----|----------------|---|---------------------|---|----------------|---|---------------------|---|
|                                                                                |                                               | FSMW-6A        |    | FSMW-6A        |     | FSMW-6A        |    | FSMW-6A        |    | FSMW-6A        |   | FSMW-6A - Duplicate |   | FSMW-6A        |   | FSMW-6A - Duplicate |   |
|                                                                                |                                               | Sep-09         |    | Jun-09         |     | Mar-09         |    | Dec-08         |    | Sep-08         |   | Sep-08              |   | Jun-08         |   | Jun-08              |   |
|                                                                                |                                               | 56-59 feet bgs |    | 56-59 feet bgs |     | 56-59 feet bgs |    | 56-59 feet bgs |    | 56-59 feet bgs |   | 56-59 feet bgs      |   | 56-59 feet bgs |   | 56-59 feet bgs      |   |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |     | (µg/L)         |    | (µg/L)         |    | (µg/L)         |   | (µg/L)              |   | (µg/L)         |   | (µg/L)              |   |
| Analyte                                                                        |                                               |                |    |                |     |                |    |                |    |                |   |                     |   |                |   |                     |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U* | 0.10           | U*  | 0.10           | U* | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U* | 0.10           | U*  | 0.10           | U* | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U  | 0.10           | U   | 0.10           | U* | 0.10           | U* | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Acetone                                                                        | 50                                            | 0.10           | U* | 1.3            | JB* | 0.10           | U* | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Benzene                                                                        | 1                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Bromoform                                                                      | 50                                            | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Bromomethane                                                                   | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U* | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Carbon disulfide                                                               | 60                                            | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Chlorobenzene                                                                  | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Chloroethane                                                                   | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U* | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Chloroform                                                                     | 7                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Chloromethane                                                                  | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Methylene chloride                                                             | 5                                             | 0.34           | JB | 0.53           | JB  | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Styrene                                                                        | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Tetrachloroethene                                                              | 5                                             | 1.3            | J  | 1.9            | J   | 11             | B  | 0.10           | U  | 1.1            | J | 0.61                | J | 1.9            | J | 2.0                 | J |
| Toluene                                                                        | 5                                             | 0.36           | J  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Trichloroethene                                                                | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| Vinyl chloride                                                                 | 2                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |     | NA             |    | NA             |    | NA             |   | NA                  |   | NA             |   | NA                  |   |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |     | NA             |    | NA             |    | NA             |   | NA                  |   | NA             |   | NA                  |   |
| Total Xylenes                                                                  | 5                                             | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U | 0.10                | U | 0.10           | U | 0.10                | U |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2007           |          |                |          |                |          |                |          | 2006           |    |                     |    |                |    | 2018             |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----|---------------------|----|----------------|----|------------------|----------|
|                                                                                |                                               | FSMW-6A        |          | FSMW-6A        |          | FSMW-6A        |          | FSMW-6A        |          | FSMW-6A        |    | FSMW-6A - Duplicate |    | FSMW-6A        |    | FSMW-6B          |          |
|                                                                                |                                               | Dec-07         |          | Aug-07         |          | May-07         |          | Feb-07         |          | Nov-06         |    | Nov-06              |    | Aug-06         |    | Mar-18           |          |
|                                                                                |                                               | 56-59 feet bgs |          | 56-59 feet bgs |          | 56-59 feet bgs |          | 56-59 feet bgs |          | 56-59 feet bgs |    | 56-59 feet bgs      |    | 56-59 feet bgs |    | 137-147 feet bgs |          |
|                                                                                |                                               | (µg/L)         |          | (µg/L)         |          | (µg/L)         |          | (µg/L)         |          | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    | (µg/L)           |          |
| Analyte                                                                        |                                               |                |          |                |          |                |          |                |          |                |    |                     |    |                |    |                  |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | UJ | 0.10             | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 10             | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | UJ | 0.10             | U        |
| 2-Hexanone                                                                     | 50                                            | 10             | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 10             | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Acetone                                                                        | 50                                            | 10             | U        | 0.10           | U        | 10             | UJ       | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Benzene                                                                        | 1                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Bromodichloromethane                                                           | 50                                            | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Bromoform                                                                      | 50                                            | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Bromomethane                                                                   | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Carbon disulfide                                                               | 60                                            | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Carbon tetrachloride                                                           | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Chlorobenzene                                                                  | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Chlorobromomethane                                                             | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Chloroethane                                                                   | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Chloroform                                                                     | 7                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Chloromethane                                                                  | 5                                             | 5              | U        | 0.10           | U        | 10             | UJ       | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Ethylbenzene                                                                   | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Methylene chloride                                                             | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Styrene                                                                        | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Tetrachloroethene                                                              | 5                                             | <b>0.67</b>    | <b>J</b> | <b>2.6</b>     | <b>J</b> | <b>1.3</b>     | <b>J</b> | <b>3.9</b>     | <b>J</b> | 10             | UJ | 10                  | UJ | 10             | U  | <b>6.4</b>       | <b>J</b> |
| Toluene                                                                        | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| Trichloroethene                                                                | 5                                             | 5              | U        | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | <b>0.95</b>      | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 5              | U        | 0.10           | U        | 10             | UJ       | 10             | U        | 10             | UJ | 10                  | UJ | 10             | U  | 0.10             | U        |
| m+p Xylene                                                                     | 5                                             | NA             |          | NA             |          | NA             |          | NA             |          | NA             |    | NA                  |    | NA             |    | NA               |          |
| o-Xylene                                                                       | 5                                             | NA             |          | NA             |          | NA             |          | NA             |          | NA             |    | NA                  |    | NA             |    | NA               |          |
| Total Xylenes                                                                  | 5                                             | 0.10           | U        | 10             | U        | 10             | U        | 10             | UJ       | 10             | UJ | 10                  | U  | 0.82           | U  | 0.10             | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2016             |          |                     |          | 2015             |   | 2014             |   | 2013             |   | 2012             |          | 2010             |           | 2009             |           |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----------|---------------------|----------|------------------|---|------------------|---|------------------|---|------------------|----------|------------------|-----------|------------------|-----------|
|                                                                                |                                               | FSMW-6B          |          | FSMW-6B - Duplicate |          | FSMW-6B          |   | FSMW-6B          |   | FSMW-6B          |   | FSMW-6B          |          | FSMW-6B          |           | FSMW-6B          |           |
|                                                                                |                                               | Dec-16           |          | Dec-16              |          | Sep-15           |   | Sep-14           |   | Oct-13           |   | Nov-12           |          | Sep-10           |           | Sep-09           |           |
|                                                                                |                                               | 137-147 feet bgs |          | 137-147 feet bgs    |          | 137-147 feet bgs |   | 137-147 feet bgs |   | 137-147 feet bgs |   | 137-147 feet bgs |          | 137-147 feet bgs |           | 137-147 feet bgs |           |
|                                                                                |                                               | (µg/L)           |          | (µg/L)              |          | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |          | (µg/L)           |           | (µg/L)           |           |
| Analyte                                                                        |                                               |                  |          |                     |          |                  |   |                  |   |                  |   |                  |          |                  |           |                  |           |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U        | 0.10                | U        | 2.1              | U | 2.1              | U | 2.1              | U | 2.1              | U        | 0.10             | U         | 0.10             | U         |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U        | 0.10                | U        | 1.5              | U | 1.5              | U | 1.5              | U | 1.5              | U        | 0.10             | U         | 0.10             | U         |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U        | 0.10                | U        | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U        | 0.10             | U         | 0.10             | U         |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U        | 0.10                | U        | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U        | 0.10             | U         | 0.10             | U         |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U        | 0.10                | U        | 2.5              | U | 2.5              | U | 2.5              | U | 2.5              | U        | 0.10             | U         | 0.10             | U         |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U        | 0.10                | U        | 0.83             | U | 0.83             | U | 0.83             | U | 0.83             | U        | 0.10             | U         | 0.10             | U         |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U        | 0.10                | U        | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U        | 0.10             | U         | 0.10             | U         |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | UJ       | 0.10                | UJ       | 1.5              | U | 1.5              | U | 1.5              | U | 1.5              | UJ       | 0.10             | U         | 0.10             | U*        |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U        | 0.10                | U        | 1.8              | U | 1.8              | U | 1.8              | U | 1.8              | UJ       | 0.10             | U         | 0.10             | U*        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U        | 0.10                | U        | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U        | 0.10             | U         | 0.10             | U         |
| Acetone                                                                        | 50                                            | 0.10             | UJ       | 0.10                | UJ       | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | UJ       | <b>0.91</b>      | <b>J</b>  | <b>1.5</b>       | <b>J*</b> |
| Benzene                                                                        | 1                                             | 0.10             | U        | 0.10                | U        | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U        | 0.10             | U         | 0.10             | U         |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U        | 0.10                | U        | 1.5              | U | 1.5              | U | 1.5              | U | 1.5              | U        | 0.10             | U         | 0.10             | U         |
| Bromoform                                                                      | 50                                            | 0.10             | U        | 0.10                | U        | 5.0              | U | 5.0              | U | 5.0              | U | 5.0              | UJ       | 0.10             | U         | 0.10             | U         |
| Bromomethane                                                                   | 5                                             | 0.10             | U        | 0.10                | U        | 4.3              | U | 4.3              | U | 4.3              | U | 4.3              | U        | 0.10             | U         | 0.10             | U         |
| Carbon disulfide                                                               | 60                                            | 0.10             | U        | 0.10                | U        | 2.1              | U | 2.1              | U | 2.1              | U | 2.1              | U        | 0.10             | U         | 0.10             | U         |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U        | 0.10                | U        | 2.0              | U | 2.0              | U | 2.0              | U | 2.0              | U        | 0.10             | U         | 0.10             | U         |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U        | 0.10                | U        | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U        | 0.10             | U         | 0.10             | U         |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U        | 0.10                | U        | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U        | 0.10             | U         | 0.10             | U         |
| Chloroethane                                                                   | 5                                             | 0.10             | U        | 0.10                | U        | 2.5              | U | 2.5              | U | 2.5              | U | 2.5              | U        | 0.10             | U         | 0.10             | U         |
| Chloroform                                                                     | 7                                             | 0.10             | U        | 0.10                | U        | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U        | 0.10             | U         | 0.10             | U         |
| Chloromethane                                                                  | 5                                             | 0.10             | UJ       | 0.10                | UJ       | 2.3              | U | 2.3              | U | 2.3              | U | 2.3              | U        | <b>0.18</b>      | <b>J*</b> | 0.10             | U         |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U        | 0.10                | U        | 1.8              | U | 1.8              | U | 1.8              | U | 1.8              | U        | 0.10             | U         | 0.10             | U         |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U        | 0.10                | U        | 1.4              | U | 1.4              | U | 1.4              | U | 1.4              | U        | 0.10             | U         | 0.10             | U         |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U        | 0.10                | U        | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U        | 0.10             | U         | 0.10             | U         |
| Methylene chloride                                                             | 5                                             | 0.10             | U        | 0.10                | U        | 1.3              | U | 1.3              | U | 1.3              | U | 1.3              | U        | <b>0.30</b>      | <b>JB</b> | <b>0.42</b>      | <b>JB</b> |
| Styrene                                                                        | 5                                             | 0.10             | U        | 0.10                | U        | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U        | 0.10             | U         | 0.10             | U         |
| Tetrachloroethene                                                              | 5                                             | <b>5.6</b>       | <b>J</b> | <b>5.9</b>          | <b>J</b> | <b>39</b>        |   | <b>42</b>        |   | <b>67</b>        |   | <b>79</b>        |          | <b>110</b>       |           | <b>7.7</b>       | <b>J</b>  |
| Toluene                                                                        | 5                                             | 0.10             | U        | 0.10                | U        | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U        | <b>0.11</b>      | <b>J</b>  | <b>0.18</b>      | <b>J</b>  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U        | 0.10                | U        | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U        | 0.10             | U         | 0.10             | U         |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U        | 0.10                | U        | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U        | 0.10             | U         | 0.10             | U         |
| Trichloroethene                                                                | 5                                             | <b>0.47</b>      | <b>J</b> | <b>0.51</b>         | <b>J</b> | 1.9              | U | 1.9              | U | 1.9              | U | <b>2.6</b>       | <b>J</b> | <b>3.7</b>       | <b>J</b>  | <b>1.8</b>       | <b>J</b>  |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U        | 0.10                | U        | 2.3              | U | 2.3              | U | 2.3              | U | 2.3              | U        | 0.10             | U*        | 0.10             | U         |
| m+p Xylene                                                                     | 5                                             | NA               |          | NA                  |          | NA               |   | NA               |   | NA               |   | NA               |          | NA               |           | NA               |           |
| o-Xylene                                                                       | 5                                             | NA               |          | NA                  |          | NA               |   | NA               |   | NA               |   | NA               |          | NA               |           | NA               |           |
| Total Xylenes                                                                  | 5                                             | 0.10             | U        | 0.10                | U        | 0.82             | U | 0.82             | U | 0.82             | U | 0.10             | U        | 0.10             | U         | 0.10             | U         |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2009                |           | 2008             |           | 2007             |          |                  |          | 2006             |          | 2015           |   | 2014           |    | 2013           |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|-----------|------------------|-----------|------------------|----------|------------------|----------|------------------|----------|----------------|---|----------------|----|----------------|---|
|                                                                                |                                               | FSMW-6B - Duplicate |           | FSMW-6B          |           | FSMW-6B          |          | FSMW-6B          |          | FSMW-6B          |          | FSMW-7A        |   | FSMW-7A        |    | FSMW-7A        |   |
|                                                                                |                                               | Sep-09              |           | Sep-08           |           | Aug-07           |          | May-07           |          | Aug-06           |          | Oct-15         |   | Oct-14         |    | Oct-13         |   |
|                                                                                |                                               | 137-147 feet bgs    |           | 137-147 feet bgs |           | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |          | 60-70 feet bgs |   | 60-70 feet bgs |    | 60-70 feet bgs |   |
|                                                                                |                                               | (µg/L)              |           | (µg/L)           |           | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)         |   | (µg/L)         |    | (µg/L)         |   |
| Analyte                                                                        |                                               |                     |           |                  |           |                  |          |                  |          |                  |          |                |   |                |    |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 2.1            | U | 2.1            | U  | 2.1            | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.5            | U | 1.5            | U  | 1.5            | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.9            | U | 1.9            | U  | 1.9            | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.7            | U | 1.7            | U  | 1.7            | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 2.5            | U | 2.5            | U  | 2.5            | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 0.83           | U | 0.83           | U  | 0.83           | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.7            | U | 1.7            | U  | 1.7            | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10                | U*        | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.5            | U | 1.5            | U  | 1.5            | U |
| 2-Hexanone                                                                     | 50                                            | 0.10                | U*        | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.8            | U | 1.8            | U  | 1.8            | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.7            | U | 1.7            | U  | 1.7            | U |
| Acetone                                                                        | 50                                            | <b>0.88</b>         | <b>J*</b> | 0.10             | U*        | 0.10             | U        | 10               | UJ       | 10               | U        | 1.9            | U | 1.9            | U  | 1.9            | U |
| Benzene                                                                        | 1                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.6            | U | 1.6            | U  | 1.6            | U |
| Bromodichloromethane                                                           | 50                                            | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.5            | U | 1.5            | U  | 1.5            | U |
| Bromoform                                                                      | 50                                            | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 5.0            | U | 5.0            | UJ | 5.0            | U |
| Bromomethane                                                                   | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 4.3            | U | 4.3            | U  | 4.3            | U |
| Carbon disulfide                                                               | 60                                            | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 2.1            | U | 2.1            | U  | 2.1            | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 2.0            | U | 2.0            | U  | 2.0            | U |
| Chlorobenzene                                                                  | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.6            | U | 1.6            | U  | 1.6            | U |
| Chlorobromomethane                                                             | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.7            | U | 1.7            | U  | 1.7            | U |
| Chloroethane                                                                   | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 2.5            | U | 2.5            | U  | 2.5            | U |
| Chloroform                                                                     | 7                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.9            | U | 1.9            | U  | 1.9            | U |
| Chloromethane                                                                  | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | UJ       | 10               | U        | 2.3            | U | 2.3            | U  | 2.3            | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.8            | U | 1.8            | U  | 1.8            | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.4            | U | 1.4            | U  | 1.4            | U |
| Ethylbenzene                                                                   | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.6            | U | 1.6            | U  | 1.6            | U |
| Methylene chloride                                                             | 5                                             | <b>0.38</b>         | <b>JB</b> | <b>0.51</b>      | <b>JB</b> | 0.10             | U        | 10               | U        | 10               | U        | 1.3            | U | 1.3            | U  | 1.3            | U |
| Styrene                                                                        | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.7            | U | 1.7            | U  | 1.7            | U |
| Tetrachloroethene                                                              | 5                                             | <b>6.9</b>          | <b>J</b>  | <b>15</b>        |           | <b>1.2</b>       | <b>J</b> | <b>1.8</b>       | <b>J</b> | 10               | U        | 2.1            | U | 2.1            | U  | 2.1            | U |
| Toluene                                                                        | 5                                             | <b>0.17</b>         | <b>J</b>  | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.6            | U | 1.6            | U  | 1.6            | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | <b>1.9</b>       | <b>J</b> | 10               | U        | 1.9            | U | 1.9            | U  | 1.9            | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 10               | U        | 1.6            | U | 1.6            | U  | 1.6            | U |
| Trichloroethene                                                                | 5                                             | <b>1.7</b>          | <b>J</b>  | <b>1.7</b>       | <b>J*</b> | <b>1.2</b>       | <b>J</b> | <b>1.7</b>       | <b>J</b> | <b>3</b>         | <b>J</b> | 1.9            | U | 1.9            | U  | 1.9            | U |
| Vinyl chloride                                                                 | 2                                             | 0.10                | U         | 0.10             | U         | 0.10             | U        | 10               | UJ       | 10               | U        | 2.3            | U | 2.3            | U  | 2.3            | U |
| m+p Xylene                                                                     | 5                                             | NA                  |           | NA               |           | NA               |          | NA               |          | NA               |          | NA             |   | NA             |    | NA             |   |
| o-Xylene                                                                       | 5                                             | NA                  |           | NA               |           | NA               |          | NA               |          | NA               |          | NA             |   | NA             |    | NA             |   |
| Total Xylenes                                                                  | 5                                             | 0.10                | U         | 0.10             | U         | 10               | U        | 10               | U        | 0.82             | U        | 0.82           | U | 0.82           | U  | 0.10           | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2010           |     | 2009           |    |                     |    | 2008           |   | 2007           |   | 2006           |   | 2015             |   | 2014             |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|-----|----------------|----|---------------------|----|----------------|---|----------------|---|----------------|---|------------------|---|------------------|---|
|                                                                                |                                               | FSMW-7A        |     | FSMW-7A        |    | FSMW-7A - Duplicate |    | FSMW-7A        |   | FSMW-7A        |   | FSMW-7A        |   | FSMW-7B          |   | FSMW-7B          |   |
|                                                                                |                                               | Sep-10         |     | Sep-09         |    | Sep-09              |    | Sep-08         |   | Aug-07         |   | Aug-06         |   | Oct-15           |   | Oct-14           |   |
|                                                                                |                                               | 60-70 feet bgs |     | 60-70 feet bgs |    | 60-70 feet bgs      |    | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |   | 136-146 feet bgs |   | 136-146 feet bgs |   |
|                                                                                |                                               | (µg/L)         |     | (µg/L)         |    | (µg/L)              |    | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)           |   | (µg/L)           |   |
| Analyte                                                                        |                                               |                |     |                |    |                     |    |                |   |                |   |                |   |                  |   |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 2.1              | U | 2.1              | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.5              | U | 1.5              | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.9              | U | 1.9              | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.7              | U | 1.7              | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 2.5              | U | 2.5              | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 0.83             | U | 0.83             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.7              | U | 1.7              | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U*  | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.5              | U | 1.5              | U |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.8              | U | 1.8              | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.7              | U | 1.7              | U |
| Acetone                                                                        | 50                                            | 1.0            | JB* | 0.74           | JB | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.9              | U | 1.9              | U |
| Benzene                                                                        | 1                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.6              | U | 1.6              | U |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.5              | U | 1.5              | U |
| Bromoform                                                                      | 50                                            | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 5.0              | U | 5.0              | U |
| Bromomethane                                                                   | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 4.3              | U | 4.3              | U |
| Carbon disulfide                                                               | 60                                            | 0.10           | U*  | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 2.1              | U | 2.1              | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 2.0              | U | 2.0              | U |
| Chlorobenzene                                                                  | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.6              | U | 1.6              | U |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.7              | U | 1.7              | U |
| Chloroethane                                                                   | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 2.5              | U | 2.5              | U |
| Chloroform                                                                     | 7                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.9              | U | 1.9              | U |
| Chloromethane                                                                  | 5                                             | 0.10           | U*  | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 2.3              | U | 2.3              | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.8              | U | 1.8              | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.4              | U | 1.4              | U |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.6              | U | 1.6              | U |
| Methylene chloride                                                             | 5                                             | 0.27           | JB  | 0.43           | JB | 0.39                | JB | 0.10           | U | 0.10           | U | 10             | U | 1.3              | U | 1.3              | U |
| Styrene                                                                        | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.7              | U | 1.7              | U |
| Tetrachloroethene                                                              | 5                                             | 1.8            | JB  | 0.45           | J  | 0.67                | J  | 0.10           | U | 0.58           | J | 10             | U | 2.1              | U | 2.1              | U |
| Toluene                                                                        | 5                                             | 0.18           | J   | 0.10           |    | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.6              | U | 1.6              | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.9              | U | 1.9              | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 1.6              | U | 1.6              | U |
| Trichloroethene                                                                | 5                                             | 0.10           | U   | 0.10           | U  | 0.19                | J  | 0.10           | U | 0.33           | J | 10             | U | 1.9              | U | 1.9              | U |
| Vinyl chloride                                                                 | 2                                             | 0.10           | U*  | 0.10           | U  | 0.10                | U  | 0.10           | U | 0.10           | U | 10             | U | 2.3              | U | 2.3              | U |
| m+p Xylene                                                                     | 5                                             | NA             |     | NA             |    | NA                  |    | NA             |   | NA             |   | NA             |   | NA               |   | NA               |   |
| o-Xylene                                                                       | 5                                             | NA             |     | NA             |    | NA                  |    | NA             |   | NA             |   | NA             |   | NA               |   | NA               |   |
| Total Xylenes                                                                  | 5                                             | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U | 10             | U | 0.82           | U | 0.82             | U | 0.82             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2014                |    | 2013             |   | 2010             |     |                     |     | 2009             |    | 2008             |   |                     |    | 2007             |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|----|------------------|---|------------------|-----|---------------------|-----|------------------|----|------------------|---|---------------------|----|------------------|---|
|                                                                                |                                               | FSMW-7B - Duplicate |    | FSMW-7B          |   | FSMW-7B          |     | FSMW-7B - Duplicate |     | FSMW-7B          |    | FSMW-7B          |   | FSMW-7B - Duplicate |    | FSMW-7B          |   |
|                                                                                |                                               | Oct-14              |    | Oct-13           |   | Sep-10           |     | Sep-10              |     | Sep-09           |    | Sep-08           |   | Sep-08              |    | Aug-07           |   |
|                                                                                |                                               | 136-146 feet bgs    |    | 136-146 feet bgs |   | 136-146 feet bgs |     | 136-146 feet bgs    |     | 136-146 feet bgs |    | 136-146 feet bgs |   | 136-146 feet bgs    |    | 136-146 feet bgs |   |
|                                                                                |                                               | (µg/L)              |    | (µg/L)           |   | (µg/L)           |     | (µg/L)              |     | (µg/L)           |    | (µg/L)           |   | (µg/L)              |    | (µg/L)           |   |
| Analyte                                                                        |                                               |                     |    |                  |   |                  |     |                     |     |                  |    |                  |   |                     |    |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1                 | U  | 2.1              | U | 0.23             | J   | 0.23                | J   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5                 | U  | 1.5              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9                 | U  | 1.9              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7                 | U  | 1.7              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5                 | U  | 2.5              | U | 0.14             | J   | 0.10                | U   | 0.15             | J  | 0.10             | U | 0.10                | U  | 0.10             | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83                | U  | 0.83             | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7                 | U  | 1.7              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5                 | U  | 1.5              | U | 0.10             | U*  | 0.10                | U*  | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| 2-Hexanone                                                                     | 50                                            | 1.8                 | U  | 1.8              | U | 0.10             | U   | 0.10                | U*  | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7                 | U  | 1.7              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Acetone                                                                        | 50                                            | 1.9                 | U  | 1.9              | U | 0.71             | JB* | 0.35                | JB* | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Benzene                                                                        | 1                                             | 1.6                 | U  | 1.6              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Bromodichloromethane                                                           | 50                                            | 1.5                 | U  | 1.5              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Bromoform                                                                      | 50                                            | 5.0                 | UJ | 5.0              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Bromomethane                                                                   | 5                                             | 4.3                 | U  | 4.3              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Carbon disulfide                                                               | 60                                            | 2.1                 | U  | 2.1              | U | 0.10             | U*  | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Carbon tetrachloride                                                           | 5                                             | 2.0                 | U  | 2.0              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Chlorobenzene                                                                  | 5                                             | 1.6                 | U  | 1.6              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Chlorobromomethane                                                             | 5                                             | 1.7                 | U  | 1.7              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Chloroethane                                                                   | 5                                             | 2.5                 | U  | 2.5              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Chloroform                                                                     | 7                                             | 1.9                 | U  | 1.9              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Chloromethane                                                                  | 5                                             | 2.3                 | U  | 2.3              | U | 0.10             | U*  | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8                 | U  | 1.8              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4                 | U  | 1.4              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Ethylbenzene                                                                   | 5                                             | 1.6                 | U  | 1.6              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Methylene chloride                                                             | 5                                             | 1.3                 | U  | 1.3              | U | 0.23             | JB  | 0.29                | JB  | 0.36             | JB | 0.10             | U | 0.44                | JB | 0.10             | U |
| Styrene                                                                        | 5                                             | 1.7                 | U  | 1.7              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Tetrachloroethene                                                              | 5                                             | 2.1                 | U  | 2.1              | U | 2.3              | JB  | 1.2                 | J   | 1.70             | J  | 0.10             | U | 0.10                | U  | 0.38             | J |
| Toluene                                                                        | 5                                             | 1.6                 | U  | 1.6              | U | 0.11             | J   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9                 | U  | 1.9              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6                 | U  | 1.6              | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| Trichloroethene                                                                | 5                                             | 1.9                 | U  | 1.9              | U | 0.26             | J   | 0.20                | J   | 0.32             | J  | 0.10             | U | 0.10                | U  | 1.1              | J |
| Vinyl chloride                                                                 | 2                                             | 2.3                 | U  | 2.3              | U | 0.10             | U*  | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U |
| m+p Xylene                                                                     | 5                                             | NA                  |    | NA               |   | NA               |     | NA                  |     | NA               |    | NA               |   | NA                  |    | NA               |   |
| o-Xylene                                                                       | 5                                             | NA                  |    | NA               |   | NA               |     | NA                  |     | NA               |    | NA               |   | NA                  |    | NA               |   |
| Total Xylenes                                                                  | 5                                             | 0.82                | U  | 0.10             | U | 0.10             | U   | 0.10                | U   | 0.10             | U  | 0.10             | U | 0.10                | U  | 10               | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2006             |          | 2018           |           |                |          |                |          |                     |          | 2017           |          |                     |          |                |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----------|----------------|-----------|----------------|----------|----------------|----------|---------------------|----------|----------------|----------|---------------------|----------|----------------|----------|
|                                                                                |                                               | FSMW-7B          |          | FSMW-8A        |           | FSMW-8A        |          | FSMW-8A        |          | FSMW-8A - Duplicate |          | FSMW-8A        |          | FSMW-8A - Duplicate |          | FSMW-8A        |          |
|                                                                                |                                               | Aug-06           |          | Sep-18         |           | Jun-18         |          | Mar-18         |          | Mar-18              |          | Dec-17         |          | Dec-17              |          | Sep-17         |          |
|                                                                                |                                               | 136-146 feet bgs |          | 64-74 feet bgs |           | 64-74 feet bgs |          | 64-74 feet bgs |          | 64-74 feet bgs      |          | 64-74 feet bgs |          | 64-74 feet bgs      |          | 64-74 feet bgs |          |
|                                                                                |                                               | (µg/L)           |          | (µg/L)         |           | (µg/L)         |          | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          |
| Analyte                                                                        |                                               |                  |          |                |           |                |          |                |          |                     |          |                |          |                     |          |                |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 10               | U        | 0.24           | UJ        | 0.24           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 10               | U        | 0.37           | UJ        | 0.37           | UJ       | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 10               | U        | 0.43           | UJ        | 0.43           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 10               | U        | 0.26           | UJ        | 0.26           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 10               | U        | 0.12           | UJ        | 0.12           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 10               | UJ       | 0.43           | UJ        | 0.43           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 10               | U        | 0.35           | UJ        | 0.35           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 10               | UJ       | 1.9            | UJ        | 1.9            | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 2-Hexanone                                                                     | 50                                            | 10               | U        | 2.9            | UJ        | 2.9            | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 10               | U        | 2.7            | UJ        | 2.7            | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Acetone                                                                        | 50                                            | 10               | U        | 5              | UJ        | 5              | U        | 1.1            | U        | 1.9                 | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Benzene                                                                        | 1                                             | 10               | U        | 0.43           | UJ        | 0.43           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Bromodichloromethane                                                           | 50                                            | 10               | U        | 0.34           | UJ        | 0.34           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Bromoform                                                                      | 50                                            | 10               | U        | 0.54           | UJ        | 0.54           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Bromomethane                                                                   | 5                                             | 10               | U        | 1              | UJ        | 1              | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Carbon disulfide                                                               | 60                                            | 10               | U        | 0.16           | UJ        | 0.16           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Carbon tetrachloride                                                           | 5                                             | 10               | U        | 0.21           | UJ        | 0.21           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Chlorobenzene                                                                  | 5                                             | 10               | U        | 0.38           | UJ        | 0.38           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Chlorobromomethane                                                             | 5                                             | 10               | U        | 0.41           | UJ        | 0.41           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Chloroethane                                                                   | 5                                             | 10               | U        | 0.32           | UJ        | 0.32           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Chloroform                                                                     | 7                                             | 10               | U        | 0.33           | UJ        | 0.33           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Chloromethane                                                                  | 5                                             | 10               | U        | 0.14           | UJ        | 0.14           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | 10               | U        | <b>0.92</b>    | <b>J-</b> | <b>0.53</b>    | <b>J</b> | 0.10           | U        | 0.10                | U        | <b>1.6</b>     | <b>J</b> | <b>1.5</b>          | <b>J</b> | <b>1.3</b>     | <b>J</b> |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 10               | U        | 0.46           | UJ        | 0.46           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Ethylbenzene                                                                   | 5                                             | 10               | U        | 0.3            | UJ        | 0.3            | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Methylene chloride                                                             | 5                                             | 10               | U        | 0.32           | UJ        | 0.32           | U        | 0.39           | U        | 0.45                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Styrene                                                                        | 5                                             | 10               | U        | 0.42           | UJ        | 0.42           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Tetrachloroethene                                                              | 5                                             | 10               | U        | <b>15</b>      | <b>J-</b> | <b>16</b>      |          | <b>31</b>      |          | <b>30</b>           |          | <b>22</b>      |          | <b>24</b>           |          | <b>13</b>      |          |
| Toluene                                                                        | 5                                             | 10               | U        | 0.38           | UJ        | 0.38           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 10               | U        | 0.24           | UJ        | 0.24           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 10               | U        | 0.49           | UJ        | 0.49           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Trichloroethene                                                                | 5                                             | <b>2</b>         | <b>J</b> | <b>0.66</b>    | <b>J-</b> | <b>0.75</b>    | <b>J</b> | <b>1.4</b>     | <b>J</b> | <b>1.3</b>          | <b>J</b> | <b>1.2</b>     | <b>J</b> | <b>1.5</b>          | <b>J</b> | <b>0.7</b>     | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 10               | U        | 0.17           | UJ        | 0.17           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| m+p Xylene                                                                     | 5                                             | NA               |          | NA             |           | 0.3            | U        | NA             |          | NA                  |          | NA             |          | NA                  |          | NA             |          |
| o-Xylene                                                                       | 5                                             | NA               |          | NA             |           | 0.36           | U        | NA             |          | NA                  |          | NA             |          | NA                  |          | NA             |          |
| Total Xylenes                                                                  | 5                                             | 4.1              | U        | 0.65           | UJ        | NA             |          | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2017           |          |                |          | 2016           |          |                |          |                     |          |                |          | 2015           |          |                |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|---------------------|----------|----------------|----------|----------------|----------|----------------|----------|
|                                                                                |                                               | FSMW-8A        |          | FSMW-8A        |          | FSMW-8A        |          | FSMW-8A        |          | FSMW-8A - Duplicate |          | FSMW-8A        |          | FSMW-8A        |          | FSMW-8A        |          |
|                                                                                |                                               | Jun-17         |          | Mar-17         |          | Dec-16         |          | Sep-16         |          | Sep-16              |          | Jun-16         |          | Apr-16         |          | Dec-15         |          |
|                                                                                |                                               | 64-74 feet bgs |          | 64-74 feet bgs |          | 64-74 feet bgs |          | 64-74 feet bgs |          | 64-74 feet bgs      |          | 64-74 feet bgs |          | 64-74 feet bgs |          | 64-74 feet bgs |          |
|                                                                                |                                               | (µg/L)         |          | (µg/L)         |          | (µg/L)         |          | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          | (µg/L)         |          | (µg/L)         |          |
| Analyte                                                                        |                                               |                |          |                |          |                |          |                |          |                     |          |                |          |                |          |                |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | UJ       | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U        | 0.10           | U        | 0.10           | UJ       | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Acetone                                                                        | 50                                            | 0.10           | UJ       | 0.10           | UJ       | 0.10           | UJ       | 0.10           | UJ       | 0.10                | UJ       | 0.10           | UJ       | 0.20           | U        | 0.10           | UJ       |
| Benzene                                                                        | 1                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Bromoform                                                                      | 50                                            | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Bromomethane                                                                   | 5                                             | 0.10           | UJ       | 0.10           | U        | 0.10           | U        | 0.10           | UJ       | 0.10                | UJ       | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Carbon disulfide                                                               | 60                                            | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Chlorobenzene                                                                  | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | <b>0.27</b>    | <b>J</b> |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Chloroethane                                                                   | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Chloroform                                                                     | 7                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Chloromethane                                                                  | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | UJ       | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>1.7</b>     | <b>J</b> | <b>1.7</b>     | <b>J</b> | <b>2.6</b>     | <b>J</b> | <b>5.1</b>     | <b>J</b> | <b>5.0</b>          | <b>J</b> | <b>14</b>      |          | <b>35</b>      |          | <b>76</b>      |          |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Methylene chloride                                                             | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | UJ       |
| Styrene                                                                        | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Tetrachloroethene                                                              | 5                                             | <b>22</b>      |          | <b>30</b>      |          | <b>44</b>      |          | <b>52</b>      |          | <b>54</b>           |          | <b>120</b>     |          | <b>190</b>     |          | <b>330</b>     | <b>D</b> |
| Toluene                                                                        | 5                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10           | UJ       | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.54           | J        | 0.33           | J        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| Trichloroethene                                                                | 5                                             | <b>0.99</b>    | <b>J</b> | <b>1.6</b>     | <b>J</b> | <b>1.7</b>     | <b>J</b> | <b>2.7</b>     | <b>J</b> | <b>2.6</b>          | <b>J</b> | <b>6.8</b>     | <b>J</b> | <b>14</b>      | <b>J</b> | <b>29</b>      |          |
| Vinyl chloride                                                                 | 2                                             | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |
| m+p Xylene                                                                     | 5                                             | NA             |          | NA             |          | NA             |          | NA             |          | NA                  |          | NA             |          | NA             |          | NA             |          |
| o-Xylene                                                                       | 5                                             | NA             |          | NA             |          | NA             |          | NA             |          | NA                  |          | NA             |          | NA             |          | NA             |          |
| Total Xylenes                                                                  | 5                                             | 0.10           | UJ       | 0.10           | U        | 0.10           | U        | 0.10           | U        | 0.10                | U        | 0.10           | U        | 0.20           | U        | 0.10           | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2015                |    |                |   |                     |   |                |   |                     |   |                |    | 2014                |    |                |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|----|----------------|---|---------------------|---|----------------|---|---------------------|---|----------------|----|---------------------|----|----------------|----|
|                                                                                |                                               | FSMW-8A - Duplicate |    | FSMW-8A        |   | FSMW-8A - Duplicate |   | FSMW-8A        |   | FSMW-8A - Duplicate |   | FSMW-8A        |    | FSMW-8A - Duplicate |    | FSMW-8A        |    |
|                                                                                |                                               | Dec-15              |    | Oct-15         |   | Oct-15              |   | Jul-15         |   | Jul-15              |   | Apr-15         |    | Apr-15              |    | Dec-14         |    |
|                                                                                |                                               | 64-74 feet bgs      |    | 64-74 feet bgs |   | 64-74 feet bgs      |   | 64-74 feet bgs |   | 64-74 feet bgs      |   | 64-74 feet bgs |    | 64-74 feet bgs      |    | 64-74 feet bgs |    |
|                                                                                |                                               | (µg/L)              |    | (µg/L)         |   | (µg/L)              |   | (µg/L)         |   | (µg/L)              |   | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    |
| Analyte                                                                        |                                               |                     |    |                |   |                     |   |                |   |                     |   |                |    |                     |    |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10                | U  | 11             | U | 11                  | U | 11             | U | 11                  | U | 0.50           | U  | 0.50                | U  | 21             | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10                | U  | 7.5            | U | 7.5                 | U | 7.5            | U | 7.5                 | U | 0.50           | U  | 0.50                | U  | 15             | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10                | U  | 9.5            | U | 9.5                 | U | 9.5            | U | 9.5                 | U | 0.50           | U  | 0.50                | U  | 19             | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10                | U  | 8.5            | U | 8.5                 | U | 8.5            | U | 8.5                 | U | 0.50           | UJ | 0.50                | UJ | 17             | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10                | U  | 13             | U | 13                  | U | 13             | U | 13                  | U | 0.50           | U  | 0.50                | U  | 25             | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10                | U  | 4.2            | U | 4.2                 | U | 4.2            | U | 4.2                 | U | 0.50           | UJ | 0.50                | UJ | 8.3            | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10                | U  | 8.5            | U | 8.5                 | U | 8.5            | U | 8.5                 | U | 0.50           | U  | 0.50                | U  | 17             | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10                | U  | 7.5            | U | 7.5                 | U | 7.5            | U | 7.5                 | U | 0.50           | U  | 0.50                | U  | 15             | UJ |
| 2-Hexanone                                                                     | 50                                            | 0.10                | U  | 9.0            | U | 9.0                 | U | 9.0            | U | 9.0                 | U | 0.50           | U  | 0.50                | U  | 18             | UJ |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10                | U  | 8.5            | U | 8.5                 | U | 8.5            | U | 8.5                 | U | 0.50           | U  | 0.50                | U  | 17             | U  |
| Acetone                                                                        | 50                                            | 0.10                | UJ | 9.5            | U | 9.5                 | U | 9.5            | U | 9.5                 | U | 0.50           | U  | 0.50                | U  | 19             | UJ |
| Benzene                                                                        | 1                                             | 0.10                | U  | 8.0            | U | 8.0                 | U | 8.0            | U | 8.0                 | U | 0.50           | U  | 0.50                | U  | 16             | U  |
| Bromodichloromethane                                                           | 50                                            | 0.10                | U  | 7.5            | U | 7.5                 | U | 7.5            | U | 7.5                 | U | 0.50           | U  | 0.50                | U  | 15             | U  |
| Bromoform                                                                      | 50                                            | 0.10                | U  | 25             | U | 25                  | U | 25             | U | 25                  | U | 0.50           | U  | 0.50                | U  | 50             | U  |
| Bromomethane                                                                   | 5                                             | 0.10                | U  | 22             | U | 22                  | U | 22             | U | 22                  | U | 0.50           | U  | 0.50                | U  | 43             | U  |
| Carbon disulfide                                                               | 60                                            | 0.10                | U  | 11             | U | 11                  | U | 11             | U | 11                  | U | 0.50           | U  | 0.50                | U  | 21             | U  |
| Carbon tetrachloride                                                           | 5                                             | 0.10                | U  | 10             | U | 10                  | U | 10             | U | 10                  | U | 0.50           | U  | 0.50                | U  | 20             | U  |
| Chlorobenzene                                                                  | 5                                             | 0.26                | J  | 8.0            | U | 8.0                 | U | 8.0            | U | 8.0                 | U | 0.50           | U  | 0.50                | U  | 16             | U  |
| Chlorobromomethane                                                             | 5                                             | 0.10                | U  | 8.5            | U | 8.5                 | U | 8.5            | U | 8.5                 | U | 0.50           | U  | 0.50                | U  | 17             | U  |
| Chloroethane                                                                   | 5                                             | 0.10                | U  | 13             | U | 13                  | U | 13             | U | 13                  | U | 0.50           | U  | 0.50                | U  | 25             | U  |
| Chloroform                                                                     | 7                                             | 0.10                | U  | 9.5            | U | 9.5                 | U | 9.5            | U | 9.5                 | U | 0.50           | U  | 0.50                | U  | 19             | U  |
| Chloromethane                                                                  | 5                                             | 0.10                | U  | 12             | U | 12                  | U | 12             | U | 12                  | U | 0.50           | U  | 0.50                | U  | 23             | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 76                  |    | 130            |   | 120                 |   | 120            |   | 120                 |   | 34             |    | 30                  |    | 18             | UJ |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10                | U  | 7.0            | U | 7.0                 | U | 7.0            | U | 7.0                 | U | 0.50           | U  | 0.50                | U  | 14             | U  |
| Ethylbenzene                                                                   | 5                                             | 0.10                | U  | 8.0            | U | 8.0                 | U | 8.0            | U | 8.0                 | U | 0.50           | U  | 0.50                | U  | 16             | U  |
| Methylene chloride                                                             | 5                                             | 0.10                | UJ | 6.5            | U | 6.5                 | U | 6.5            | U | 6.5                 | U | 0.50           | U  | 0.50                | U  | 13             | U  |
| Styrene                                                                        | 5                                             | 0.10                | U  | 8.5            | U | 8.5                 | U | 8.5            | U | 8.5                 | U | 0.50           | U  | 0.50                | U  | 17             | U  |
| Tetrachloroethene                                                              | 5                                             | 320                 | D  | 360            |   | 340                 |   | 260            |   | 270                 |   | 480            |    | 490                 |    | 590            |    |
| Toluene                                                                        | 5                                             | 0.10                | U  | 8.0            | U | 8.0                 | U | 8.0            | U | 8.0                 | U | 0.50           | U  | 0.50                | U  | 16             | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.30                | J  | 9.5            | U | 9.5                 | U | 9.5            | U | 9.5                 | U | 0.50           | U  | 0.69                | J  | 19             | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10                | U  | 8.0            | U | 8.0                 | U | 8.0            | U | 8.0                 | U | 0.50           | U  | 0.50                | U  | 16             | U  |
| Trichloroethene                                                                | 5                                             | 29                  |    | 38             | J | 36                  | J | 24             | J | 25                  | J | 18             |    | 20                  |    | 19             | UJ |
| Vinyl chloride                                                                 | 2                                             | 0.10                | U  | 12             | U | 12                  | U | 12             | U | 12                  | U | 0.50           | U  | 0.50                | U  | 23             | U  |
| m+p Xylene                                                                     | 5                                             | NA                  |    | NA             |   | NA                  |   | NA             |   | NA                  |   | NA             |    | NA                  |    | NA             |    |
| o-Xylene                                                                       | 5                                             | NA                  |    | NA             |   | NA                  |   | NA             |   | NA                  |   | NA             |    | NA                  |    | NA             |    |
| Total Xylenes                                                                  | 5                                             | 0.10                | U  | 4.1            | U | 4.1                 | U | 4.1            | U | 0.50                | U | 0.50           | U  | 8.2                 | U  | 8.2            | U  |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2014                |    |                |   |                     |   |                |   |                |    | 2013                |    |                |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|----|----------------|---|---------------------|---|----------------|---|----------------|----|---------------------|----|----------------|---|
|                                                                                |                                               | FSMW-8A - Duplicate |    | FSMW-8A        |   | FSMW-8A - Duplicate |   | FSMW-8A        |   | FSMW-8A        |    | FSMW-8A - Duplicate |    | FSMW-8A        |   |
|                                                                                |                                               | Dec-14              |    | Oct-14         |   | Oct-14              |   | Jun-14         |   | Mar-14         |    | Mar-14              |    | Oct-13         |   |
|                                                                                |                                               | 64-74 feet bgs      |    | 64-74 feet bgs |   | 64-74 feet bgs      |   | 64-74 feet bgs |   | 64-74 feet bgs |    | 64-74 feet bgs      |    | 64-74 feet bgs |   |
|                                                                                |                                               | (µg/L)              |    | (µg/L)         |   | (µg/L)              |   | (µg/L)         |   | (µg/L)         |    | (µg/L)              |    | (µg/L)         |   |
| Analyte                                                                        |                                               |                     |    |                |   |                     |   |                |   |                |    |                     |    |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 21                  | U  | 21             | U | 21                  | U | 21             | U | 21             | U  | 21                  | U  | 110            | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 15                  | U  | 15             | U | 15                  | U | 15             | U | 15             | U  | 15                  | U  | 75             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 19                  | U  | 19             | U | 19                  | U | 19             | U | 19             | U  | 19                  | U  | 95             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 17                  | U  | 17             | U | 17                  | U | 17             | U | 17             | U  | 17                  | U  | 85             | U |
| 1,1-Dichloroethene                                                             | 5                                             | 25                  | U  | 25             | U | 25                  | U | 25             | U | 25             | U  | 25                  | U  | 130            | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 8.3                 | U  | 8.3            | U | 8.3                 | U | 8.3            | U | 8.3            | U  | 8.3                 | U  | 42             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 17                  | U  | 17             | U | 17                  | U | 17             | U | 17             | U  | 17                  | U  | 85             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 15                  | UJ | 15             | U | 15                  | U | 15             | U | 15             | UJ | 15                  | UJ | 75             | U |
| 2-Hexanone                                                                     | 50                                            | 18                  | UJ | 18             | U | 18                  | U | 18             | U | 18             | U  | 18                  | U  | 90             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 17                  | U  | 17             | U | 17                  | U | 17             | U | 17             | U  | 17                  | U  | 85             | U |
| Acetone                                                                        | 50                                            | 19                  | UJ | 19             | U | 19                  | U | 19             | U | 19             | U  | 19                  | U  | 95             | U |
| Benzene                                                                        | 1                                             | 16                  | U  | 16             | U | 16                  | U | 16             | U | 16             | U  | 16                  | U  | 80             | U |
| Bromodichloromethane                                                           | 50                                            | 15                  | U  | 15             | U | 15                  | U | 15             | U | 15             | U  | 15                  | U  | 75             | U |
| Bromoform                                                                      | 50                                            | 50                  | U  | 50             | U | 50                  | U | 50             | U | 50             | U  | 50                  | U  | 250            | U |
| Bromomethane                                                                   | 5                                             | 43                  | U  | 43             | U | 43                  | U | 43             | U | 43             | UJ | 43                  | UJ | 220            | U |
| Carbon disulfide                                                               | 60                                            | 21                  | U  | 21             | U | 21                  | U | 21             | U | 21             | U  | 21                  | U  | 110            | U |
| Carbon tetrachloride                                                           | 5                                             | 20                  | U  | 20             | U | 20                  | U | 20             | U | 20             | U  | 20                  | U  | 100            | U |
| Chlorobenzene                                                                  | 5                                             | 16                  | U  | 16             | U | 16                  | U | 16             | U | 16             | U  | 16                  | U  | 80             | U |
| Chlorobromomethane                                                             | 5                                             | 17                  | U  | 17             | U | 17                  | U | 17             | U | 17             | U  | 17                  | U  | 85             | U |
| Chloroethane                                                                   | 5                                             | 25                  | U  | 25             | U | 25                  | U | 25             | U | 25             | U  | 25                  | U  | 130            | U |
| Chloroform                                                                     | 7                                             | 19                  | U  | 19             | U | 19                  | U | 19             | U | 19             | U  | 19                  | U  | 95             | U |
| Chloromethane                                                                  | 5                                             | 23                  | U  | 23             | U | 23                  | U | 23             | U | 23             | U  | 23                  | U  | 120            | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 18                  | J  | 57             | J | 57                  | J | 180            |   | 190            |    | 190                 |    | 170            | J |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 14                  | U  | 14             | U | 14                  | U | 14             | U | 14             | U  | 14                  | U  | 70             | U |
| Ethylbenzene                                                                   | 5                                             | 16                  | U  | 16             | U | 16                  | U | 16             | U | 16             | U  | 16                  | U  | 80             | U |
| Methylene chloride                                                             | 5                                             | 13                  | U  | 13             | U | 13                  | U | 13             | U | 13             | U  | 13                  | U  | 65             | U |
| Styrene                                                                        | 5                                             | 17                  | U  | 17             | U | 17                  | U | 17             | U | 17             | U  | 17                  | U  | 85             | U |
| Tetrachloroethene                                                              | 5                                             | 620                 |    | 1,400          | J | 1,400               |   | 1,900          |   | 1,600          |    | 1,700               |    | 9,600          |   |
| Toluene                                                                        | 5                                             | 16                  | U  | 16             | U | 16                  | U | 16             | U | 16             | U  | 16                  | U  | 80             | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 19                  | U  | 19             | U | 19                  | U | 19             | U | 19             | U  | 19                  | U  | 95             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 16                  | U  | 16             | U | 16                  | U | 16             | U | 16             | U  | 16                  | U  | 80             | U |
| Trichloroethene                                                                | 5                                             | 19                  | J  | 57             | J | 55                  | J | 140            |   | 140            |    | 130                 |    | 280            | J |
| Vinyl chloride                                                                 | 2                                             | 23                  | U  | 23             | U | 23                  | U | 23             | U | 23             | U  | 23                  | U  | 120            | U |
| m+p Xylene                                                                     | 5                                             | NA                  |    | NA             |   | NA                  |   | NA             |   | NA             |    | NA                  |    | NA             |   |
| o-Xylene                                                                       | 5                                             | NA                  |    | NA             |   | NA                  |   | NA             |   | NA             |    | NA                  |    | NA             |   |
| Total Xylenes                                                                  | 5                                             | 8.2                 | U  | 8.2            | U | 8.2                 | U | 8.2            | U | 8.2            | U  | 41                  | U  | 8.2            | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2012           |          |                |          |                     |          |                |          | 2011           |    |                |          |                     |          |                |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----------|----------------|----------|---------------------|----------|----------------|----------|----------------|----|----------------|----------|---------------------|----------|----------------|----------|
|                                                                                |                                               | FSMW-8A        |          | FSMW-8A        |          | FSMW-8A - Duplicate |          | FSMW-8A        |          | FSMW-8A        |    | FSMW-8A        |          | FSMW-8A - Duplicate |          | FSMW-8A        |          |
|                                                                                |                                               | Nov-12         |          | Jul-12         |          | Jul-12              |          | Apr-12         |          | Dec-11         |    | Jul-11         |          | Jul-11              |          | Mar-11         |          |
|                                                                                |                                               | 64-74 feet bgs |          | 64-74 feet bgs |          | 64-74 feet bgs      |          | 64-74 feet bgs |          | 64-74 feet bgs |    | 64-74 feet bgs |          | 64-74 feet bgs      |          | 64-74 feet bgs |          |
|                                                                                |                                               | (µg/L)         |          | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          | (µg/L)         |    | (µg/L)         |          | (µg/L)              |          | (µg/L)         |          |
| Analyte                                                                        |                                               |                |          |                |          |                     |          |                |          |                |    |                |          |                     |          |                |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1            | U        | 2.1            | U        | 2.1                 | U        | 2.1            | U        | 2.1            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5            | U        | 1.5            | U        | 1.5                 | U        | 1.5            | U        | 1.5            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9            | U        | 1.9            | U        | 1.9                 | U        | 1.9            | U        | 1.9            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7            | U        | 1.7            | U        | 1.7                 | U        | 1.7            | U        | 1.7            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5            | U        | 2.5            | U        | 2.5                 | U        | 2.5            | U        | 2.5            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83           | U        | 0.83           | U        | 0.83                | U        | 0.83           | U        | 0.83           | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7            | U        | 1.7            | U        | 1.7                 | U        | 1.7            | U        | 1.7            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5            | U        | 1.5            | UJ       | 1.5                 | UJ       | 1.5            | U        | 1.5            | UJ | 0.10           | U        | 0.10                | U        | 0.10           | UJ       |
| 2-Hexanone                                                                     | 50                                            | 1.8            | U        | 1.8            | U        | 1.8                 | U        | 1.8            | U        | 1.8            | UJ | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7            | U        | 1.7            | U        | 1.7                 | U        | 1.7            | U        | 1.7            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Acetone                                                                        | 50                                            | 1.9            | U        | 1.9            | UJ       | 1.9                 | UJ       | 1.9            | U        | 1.9            | UJ | 0.78           | UJ       | 0.54                | UJ       | 0.49           | UJ       |
| Benzene                                                                        | 1                                             | 1.6            | U        | 1.6            | U        | 1.6                 | U        | 1.6            | U        | 1.6            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Bromodichloromethane                                                           | 50                                            | 1.5            | U        | 1.5            | U        | 1.5                 | U        | 1.5            | U        | 1.5            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Bromoform                                                                      | 50                                            | 5.0            | UJ       | 5.0            | U        | 5.0                 | U        | 5.0            | U        | 5.0            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Bromomethane                                                                   | 5                                             | 4.3            | U        | 4.3            | U        | 4.3                 | U        | 4.3            | UJ       | 4.3            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Carbon disulfide                                                               | 60                                            | 2.1            | U        | 2.1            | U        | 2.1                 | U        | 2.1            | U        | 2.1            | U  | 0.10           | U        | 0.10                | U        | 0.26           | U        |
| Carbon tetrachloride                                                           | 5                                             | 2.0            | U        | 2.0            | U        | 2.0                 | U        | 2.0            | U        | 2.0            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Chlorobenzene                                                                  | 5                                             | 1.6            | U        | 1.6            | U        | 1.6                 | U        | 1.6            | U        | 1.6            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Chlorobromomethane                                                             | 5                                             | 1.7            | U        | 1.7            | U        | 1.7                 | U        | 1.7            | U        | 1.7            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Chloroethane                                                                   | 5                                             | 2.5            | U        | 2.5            | U        | 2.5                 | U        | 2.5            | U        | 2.5            | U  | 0.10           | U        | 0.10                | U        | 0.10           | UJ       |
| Chloroform                                                                     | 7                                             | 1.9            | U        | 1.9            | U        | 1.9                 | U        | 1.9            | U        | 1.9            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Chloromethane                                                                  | 5                                             | 2.3            | U        | 2.3            | U        | 2.3                 | U        | 2.3            | U        | 2.3            | U  | <b>0.20</b>    | <b>J</b> | <b>0.10</b>         | <b>J</b> | 0.10           | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>40</b>      |          | <b>28</b>      |          | <b>27</b>           |          | <b>4.9</b>     | <b>J</b> | 1.8            | U  | <b>0.12</b>    | <b>J</b> | <b>0.12</b>         | <b>J</b> | <b>0.26</b>    | <b>J</b> |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4            | U        | 1.4            | U        | 1.4                 | U        | 1.4            | U        | 1.4            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Ethylbenzene                                                                   | 5                                             | 1.6            | U        | 1.6            | U        | 1.6                 | U        | 1.6            | U        | 1.6            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Methylene chloride                                                             | 5                                             | 1.3            | U        | 1.3            | U        | 1.3                 | U        | 1.3            | U        | 1.3            | U  | 0.46           | U        | 0.36                | U        | 0.33           | U        |
| Styrene                                                                        | 5                                             | 1.7            | U        | 1.7            | U        | 1.7                 | U        | 1.7            | U        | 1.7            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Tetrachloroethene                                                              | 5                                             | <b>1,000</b>   | <b>D</b> | <b>770</b>     | <b>D</b> | <b>770</b>          | <b>D</b> | <b>84</b>      |          | <b>21</b>      |    | <b>15</b>      |          | <b>13</b>           |          | <b>12</b>      |          |
| Toluene                                                                        | 5                                             | 1.6            | U        | 1.6            | U        | 1.6                 | U        | 1.6            | U        | 1.6            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9            | U        | 1.9            | U        | 1.9                 | U        | 1.9            | U        | 1.9            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6            | U        | 1.6            | U        | 1.6                 | U        | 1.6            | U        | 1.6            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| Trichloroethene                                                                | 5                                             | <b>53</b>      |          | <b>45</b>      |          | <b>44</b>           |          | <b>8.9</b>     | <b>J</b> | 1.9            | U  | 0.10           | U        | <b>0.48</b>         | <b>J</b> | <b>0.16</b>    | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 2.3            | U        | 2.3            | U        | 2.3                 | U        | 2.3            | U        | 2.3            | U  | 0.10           | U        | 0.10                | U        | 0.10           | U        |
| m+p Xylene                                                                     | 5                                             | NA             |          | NA             |          | NA                  |          | NA             |          | NA             |    | NA             |          | NA                  |          | NA             |          |
| o-Xylene                                                                       | 5                                             | NA             |          | NA             |          | NA                  |          | NA             |          | NA             |    | NA             |          | NA                  |          | NA             |          |
| Total Xylenes                                                                  | 5                                             | 0.82           | U        | 0.82           | U        | 0.82                | U        | 0.82           | U        | 0.10           | U  | 0.10           | U        | 0.10                | U        | <b>0.34</b>    | <b>J</b> |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2011                |    | 2010           |     |                |    |                     |    | 2009           |    |                |     |                |     |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|----|----------------|-----|----------------|----|---------------------|----|----------------|----|----------------|-----|----------------|-----|
|                                                                                |                                               | FSMW-8A - Duplicate |    | FSMW-8A        |     | FSMW-8A        |    | FSMW-8A - Duplicate |    | FSMW-8A        |    | FSMW-8A        |     | FSMW-8A        |     |
|                                                                                |                                               | Mar-11              |    | Dec-10         |     | Sep-10         |    | Sep-10              |    | Jun-10         |    | Mar-10         |     | Dec-09         |     |
|                                                                                |                                               | 64-74 feet bgs      |    | 64-74 feet bgs |     | 64-74 feet bgs |    | 64-74 feet bgs      |    | 64-74 feet bgs |    | 64-74 feet bgs |     | 64-74 feet bgs |     |
|                                                                                |                                               | (µg/L)              |    | (µg/L)         |     | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    | (µg/L)         |     | (µg/L)         |     |
| Analyte                                                                        |                                               |                     |    |                |     |                |    |                     |    |                |    |                |     |                |     |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10                | UJ | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U* | 0.10           | U*  | 0.10           | U*  |
| 2-Hexanone                                                                     | 50                                            | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U* | 0.10           | U*  | 0.10           | U*  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Acetone                                                                        | 50                                            | 0.24                | UJ | 0.73           | JB* | 1.2            | J  | 1.1                 | J  | 0.10           | U* | 0.42           | JB* | 0.95           | JB* |
| Benzene                                                                        | 1                                             | 1.2                 | J  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Bromodichloromethane                                                           | 50                                            | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Bromoform                                                                      | 50                                            | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Bromomethane                                                                   | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Carbon disulfide                                                               | 60                                            | 0.25                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.12           | J   | 0.12           | J   |
| Carbon tetrachloride                                                           | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Chlorobenzene                                                                  | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Chlorobromomethane                                                             | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Chloroethane                                                                   | 5                                             | 0.10                | UJ | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Chloroform                                                                     | 7                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Chloromethane                                                                  | 5                                             | 0.10                | U  | 0.10           | U   | 0.28           | J* | 0.29                | J* | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.21           | J   |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Ethylbenzene                                                                   | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Methylene chloride                                                             | 5                                             | 0.30                | U  | 0.49           | JB* | 0.27           | JB | 0.23                | JB | 0.25           | JB | 0.40           | JB  | 0.53           | JB  |
| Styrene                                                                        | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Tetrachloroethene                                                              | 5                                             | 12                  |    | 12             |     | 10             |    | 9.9                 | J  | 17             |    | 23             |     | 20             |     |
| Toluene                                                                        | 5                                             | 0.10                | U  | 0.10           | U   | 0.15           | J  | 0.12                | J  | 0.10           | U  | 0.19           | J   | 0.10           | U   |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.13           | J   |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |
| Trichloroethene                                                                | 5                                             | 0.13                | J  | 0.49           | J   | 0.34           | J  | 0.38                | J  | 0.64           | J  | 0.82           | J   | 1.1            | J   |
| Vinyl chloride                                                                 | 2                                             | 0.10                | U  | 0.10           | U   | 0.10           | U* | 0.10                | U* | 0.10           | U  | 0.10           | U*  | 0.10           | U   |
| m+p Xylene                                                                     | 5                                             | NA                  |    | NA             |     | NA             |    | NA                  |    | NA             |    | NA             |     | NA             |     |
| o-Xylene                                                                       | 5                                             | NA                  |    | NA             |     | NA             |    | NA                  |    | NA             |    | NA             |     | NA             |     |
| Total Xylenes                                                                  | 5                                             | 0.10                | U  | 0.10           | U   | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10           | U   | 0.10           | U   |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2009           |     |                     |     |                |     |                |    | 2008           |    |                     |    |                |    |                     |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|-----|---------------------|-----|----------------|-----|----------------|----|----------------|----|---------------------|----|----------------|----|---------------------|---|
|                                                                                |                                               | FSMW-8A        |     | FSMW-8A - Duplicate |     | FSMW-8A        |     | FSMW-8A        |    | FSMW-8A        |    | FSMW-8A - Duplicate |    | FSMW-8A        |    | FSMW-8A - Duplicate |   |
|                                                                                |                                               | Sep-09         |     | Sep-09              |     | Jun-09         |     | Mar-09         |    | Dec-08         |    | Dec-08              |    | Sep-08         |    | Sep-08              |   |
|                                                                                |                                               | 64-74 feet bgs |     | 64-74 feet bgs      |     | 64-74 feet bgs |     | 64-74 feet bgs |    | 64-74 feet bgs |    | 64-74 feet bgs      |    | 64-74 feet bgs |    | 64-74 feet bgs      |   |
|                                                                                |                                               | (µg/L)         |     | (µg/L)              |     | (µg/L)         |     | (µg/L)         |    | (µg/L)         |    | (µg/L)              |    | (µg/L)         |    | (µg/L)              |   |
| Analyte                                                                        |                                               |                |     |                     |     |                |     |                |    |                |    |                     |    |                |    |                     |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U*  | 0.10                | U*  | 0.10           | U*  | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U*  | 0.10                | U*  | 0.10           | U*  | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U* | 0.10                | U* | 0.10           | U  | 0.10                | U |
| Acetone                                                                        | 50                                            | 0.48           | JB* | 0.40                | JB* | 1.0            | J*B | 10             | UJ | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Benzene                                                                        | 1                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Bromoform                                                                      | 50                                            | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Bromomethane                                                                   | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Carbon disulfide                                                               | 60                                            | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Chlorobenzene                                                                  | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Chloroethane                                                                   | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Chloroform                                                                     | 7                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Chloromethane                                                                  | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10           | U   | 0.10                | U   | 0.27           | J   | 0.34           | J  | 0.10           | U  | 0.10                | U  | 0.1            | U  | 0.10                | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Methylene chloride                                                             | 5                                             | 0.43           | JB  | 0.43                | JB  | 0.40           | JB  | 10             | U  | 0.10           | U  | 0.10                | U  | 0.37           | JB | 0.10                | U |
| Styrene                                                                        | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Tetrachloroethene                                                              | 5                                             | 20             |     | 20                  |     | 39             |     | 29             |    | 63             |    | 62                  |    | 77             |    | 75                  |   |
| Toluene                                                                        | 5                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10           | U   | 0.10                | U   | 0.13           | J   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| Trichloroethene                                                                | 5                                             | 0.93           | J   | 0.89                | J   | 1.7            | J   | 1.3            | J  | 2.3            | J  | 2.3                 | J  | 3.6            | J  | 3.7                 | J |
| Vinyl chloride                                                                 | 2                                             | 0.10           | U   | 0.10                | U   | 0.10           | U   | 10             | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |
| m+p Xylene                                                                     | 5                                             | NA             |     | NA                  |     | NA             |     | NA             |    | NA             |    | NA                  |    | NA             |    | NA                  |   |
| o-Xylene                                                                       | 5                                             | NA             |     | NA                  |     | NA             |     | NA             |    | NA             |    | NA                  |    | NA             |    | NA                  |   |
| Total Xylenes                                                                  | 5                                             | 0.10           | U   | 0.10                | U   | 10             | U   | 0.10           | U  | 0.10           | U  | 0.10                | U  | 0.10           | U  | 0.10                | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2008           |          |                |          | 2007           |    |                     |   |                |          |                |          | 2006           |          |                |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----------|----------------|----------|----------------|----|---------------------|---|----------------|----------|----------------|----------|----------------|----------|----------------|----------|
|                                                                                |                                               | FSMW-8A        |          | FSMW-8A        |          | FSMW-8A        |    | FSMW-8A - Duplicate |   | FSMW-8A        |          | FSMW-8A        |          | FSMW-8A        |          | FSMW-8A        |          |
|                                                                                |                                               | Jun-08         |          | Mar-08         |          | Dec-07         |    | Dec-07              |   | Aug-07         |          | May-07         |          | Feb-07         |          | Nov-06         |          |
|                                                                                |                                               | 64-74 feet bgs |          | 64-74 feet bgs |          | 64-74 feet bgs |    | 64-74 feet bgs      |   | 64-74 feet bgs |          | 64-74 feet bgs |          | 64-74 feet bgs |          | 64-74 feet bgs |          |
|                                                                                |                                               | (µg/L)         |          | (µg/L)         |          | (µg/L)         |    | (µg/L)              |   | (µg/L)         |          | (µg/L)         |          | (µg/L)         |          | (µg/L)         |          |
| Analyte                                                                        |                                               |                |          |                |          |                |    |                     |   |                |          |                |          |                |          |                |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U        | 0.40           | U        | 10             | U  | 10                  | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U        | 0.40           | U        | 10             | U  | 10                  | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U        | 0.40           | U        | 10             | U  | 10                  | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Acetone                                                                        | 50                                            | 0.10           | U        | 0.40           | U        | 10             | U  | 10                  | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Benzene                                                                        | 1                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Bromoform                                                                      | 50                                            | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Bromomethane                                                                   | 5                                             | 0.10           | U        | 0.40           | U        | 5              | UJ | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Carbon disulfide                                                               | 60                                            | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | UJ       |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Chlorobenzene                                                                  | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Chloroethane                                                                   | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Chloroform                                                                     | 7                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Chloromethane                                                                  | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>1.9</b>     | <b>J</b> | <b>3.2</b>     | <b>J</b> | <b>8.1</b>     |    | <b>8.3</b>          |   | <b>7.8</b>     | <b>J</b> | <b>7.7</b>     | <b>J</b> | <b>12</b>      | <b>J</b> | <b>22</b>      |          |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Methylene chloride                                                             | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Styrene                                                                        | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Tetrachloroethene                                                              | 5                                             | <b>200</b>     |          | <b>380</b>     |          | <b>1,200</b>   |    | <b>1,300</b>        |   | <b>1,400</b>   |          | <b>2,200</b>   |          | <b>5,400</b>   |          | <b>11,000</b>  |          |
| Toluene                                                                        | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | 200            | U        | 400            | U        | 10             | U        |
| Trichloroethene                                                                | 5                                             | <b>14</b>      |          | <b>25</b>      |          | <b>78</b>      |    | <b>88</b>           |   | <b>74</b>      |          | <b>110</b>     | <b>J</b> | <b>130</b>     | <b>J</b> | <b>170</b>     |          |
| Vinyl chloride                                                                 | 2                                             | 0.10           | U        | 0.40           | U        | 5              | U  | 5                   | U | 1.0            | U        | <b>2.2</b>     | <b>J</b> | 400            | U        | <b>6</b>       | <b>J</b> |
| m+p Xylene                                                                     | 5                                             | NA             |          | NA             |          | NA             |    | NA                  |   | NA             |          | NA             |          | NA             |          | NA             |          |
| o-Xylene                                                                       | 5                                             | NA             |          | NA             |          | NA             |    | NA                  |   | NA             |          | NA             |          | NA             |          | NA             |          |
| Total Xylenes                                                                  | 5                                             | 0.40           | U        | 5              | U        | 5              | U  | 1.0                 | U | 200            | U        | 400            | U        | 10             | U        | 1,000          | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2006           |    | 2018             |   | 2016             |    | 2015             |    |                  |   |                  |   |                  |    | 2014             |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|------------------|---|------------------|----|------------------|----|------------------|---|------------------|---|------------------|----|------------------|----|
|                                                                                |                                               | FSMW-8A        |    | FSMW-8B          |   | FSMW-8B          |    | FSMW-8B          |    | FSMW-8B          |   | FSMW-8B          |   | FSMW-8B          |    | FSMW-8B          |    |
|                                                                                |                                               | Aug-06         |    | Mar-18           |   | Dec-16           |    | Dec-15           |    | Oct-15           |   | Jul-15           |   | Apr-15           |    | Dec-14           |    |
|                                                                                |                                               | 64-74 feet bgs |    | 132-142 feet bgs |   | 132-142 feet bgs |    | 132-142 feet bgs |    | 132-142 feet bgs |   | 132-142 feet bgs |   | 132-142 feet bgs |    | 132-142 feet bgs |    |
|                                                                                |                                               | (µg/L)         |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |    | (µg/L)           |   | (µg/L)           |   | (µg/L)           |    | (µg/L)           |    |
| Analyte                                                                        |                                               |                |    |                  |   |                  |    |                  |    |                  |   |                  |   |                  |    |                  |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 2.1              | U | 2.1              | U | 0.10             | U  | 2.1              | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.5              | U | 1.5              | U | 0.10             | U  | 1.5              | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.9              | U | 1.9              | U | 0.10             | U  | 1.9              | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.7              | U | 1.7              | U | 0.10             | UJ | 1.7              | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 2.5              | U | 2.5              | U | 0.10             | U  | 2.5              | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 0.83             | U | 0.83             | U | 0.10             | UJ | 0.83             | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.7              | U | 1.7              | U | 0.10             | U  | 1.7              | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1,000          | U  | 0.10             | U | 0.10             | UJ | 0.10             | U  | 1.5              | U | 1.5              | U | 0.10             | U  | 1.5              | UJ |
| 2-Hexanone                                                                     | 50                                            | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.8              | U | 1.8              | U | 0.10             | U  | 1.8              | UJ |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.7              | U | 1.7              | U | 0.10             | U  | 1.7              | U  |
| Acetone                                                                        | 50                                            | 1,000          | U  | 0.10             | U | 0.10             | UJ | 0.10             | UJ | 1.9              | U | 1.9              | U | 0.10             | U  | 1.9              | UJ |
| Benzene                                                                        | 1                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.6              | U | 1.6              | U | 0.10             | U  | 1.6              | U  |
| Bromodichloromethane                                                           | 50                                            | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.5              | U | 1.5              | U | 0.10             | U  | 1.5              | U  |
| Bromoform                                                                      | 50                                            | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 5.0              | U | 5.0              | U | 0.10             | U  | 5.0              | U  |
| Bromomethane                                                                   | 5                                             | 1,000          | UJ | 0.10             | U | 0.10             | U  | 0.10             | UJ | 4.3              | U | 4.3              | U | 0.10             | U  | 4.3              | U  |
| Carbon disulfide                                                               | 60                                            | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 2.1              | U | 2.1              | U | 0.10             | U  | 2.1              | U  |
| Carbon tetrachloride                                                           | 5                                             | 1,000          | UJ | 0.10             | U | 0.10             | U  | 0.10             | U  | 2.0              | U | 2.0              | U | 0.10             | U  | 2.0              | U  |
| Chlorobenzene                                                                  | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.6              | U | 1.6              | U | 0.10             | U  | 1.6              | U  |
| Chlorobromomethane                                                             | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.7              | U | 1.7              | U | 0.10             | U  | 1.7              | U  |
| Chloroethane                                                                   | 5                                             | 1,000          | UJ | 0.10             | U | 0.10             | U  | 0.10             | U  | 2.5              | U | 2.5              | U | 0.10             | U  | 2.5              | U  |
| Chloroform                                                                     | 7                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.9              | U | 1.9              | U | 0.10             | U  | 1.9              | U  |
| Chloromethane                                                                  | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | UJ | 0.10             | U  | 2.3              | U | 2.3              | U | 0.10             | U  | 2.3              | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.8              | U | 1.8              | U | 0.11             | U  | 1.8              | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.4              | U | 1.4              | U | 0.10             | U  | 1.4              | U  |
| Ethylbenzene                                                                   | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.6              | U | 1.6              | U | 0.10             | U  | 1.6              | U  |
| Methylene chloride                                                             | 5                                             | 1,000          | U  | 0.52             | U | 0.10             | U  | 0.10             | UJ | 1.3              | U | 1.3              | U | 0.10             | U  | 1.3              | U  |
| Styrene                                                                        | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.7              | U | 1.7              | U | 0.10             | U  | 1.7              | U  |
| Tetrachloroethene                                                              | 5                                             | 11,000         |    | 1.3              | J | 0.58             | J  | 0.95             | U  | 2.1              | U | 2.1              | U | 1.3              | U  | 2.1              | U  |
| Toluene                                                                        | 5                                             | 1,000          | U  | 0.10             | U | 0.32             | J  | 0.10             | U  | 1.6              | U | 1.6              | U | 0.10             | U  | 1.6              | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.9              | U | 1.9              | U | 0.10             | U  | 1.9              | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 1.6              | U | 1.6              | U | 0.10             | U  | 1.6              | U  |
| Trichloroethene                                                                | 5                                             | 1,000          | U  | 0.33             | J | 0.21             | J  | 0.25             | J  | 1.9              | U | 1.9              | U | 0.25             | J  | 1.9              | U  |
| Vinyl chloride                                                                 | 2                                             | 1,000          | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 2.3              | U | 2.3              | U | 0.10             | U  | 2.3              | U  |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA               |   | NA               |    | NA               |    | NA               |   | NA               |   | NA               |    | NA               |    |
| o-Xylene                                                                       | 5                                             | NA             |    | NA               |   | NA               |    | NA               |    | NA               |   | NA               |   | NA               |    | NA               |    |
| Total Xylenes                                                                  | 5                                             | 0.82           | U  | 0.10             | U | 0.10             | U  | 0.10             | U  | 0.82             | U | 0.10             | U | 0.82             | U  | 0.82             | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2014             |   |                  |   |                  |   | 2013             |   |                  |   |                     |   | 2012             |   |                  |   |  |  |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|---|------------------|---|------------------|---|------------------|---|---------------------|---|------------------|---|------------------|---|--|--|
|                                                                                |                                               | FSMW-8B          |   | FSMW-8B          |   | FSMW-8B          |   | FSMW-8B          |   | FSMW-8B          |   | FSMW-8B - Duplicate |   | FSMW-8B          |   | FSMW-8B          |   |  |  |
|                                                                                |                                               | Oct-14           |   | Jun-14           |   | Mar-14           |   | Oct-13           |   | Jul-13           |   | Jul-13              |   | Nov-12           |   | Jul-12           |   |  |  |
|                                                                                |                                               | 132-142 feet bgs |   | 132-142 feet bgs |   | 132-142 feet bgs |   | 132-142 feet bgs |   | 132-142 feet bgs |   | 132-142 feet bgs    |   | 132-142 feet bgs |   | 132-142 feet bgs |   |  |  |
|                                                                                |                                               | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)              |   | (µg/L)           |   | (µg/L)           |   |  |  |
| Analyte                                                                        |                                               |                  |   |                  |   |                  |   |                  |   |                  |   |                     |   |                  |   |                  |   |  |  |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1              | U | 2.1              | U | 2.1              | U | 2.1              | U | 2.1              | U | 2.1                 | U | 2.1              | U | 2.1              | U |  |  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5              | U | 1.5              | U | 1.5              | U | 1.5              | U | 1.5              | U | 1.5                 | U | 1.5              | U | 1.5              | U |  |  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U | 1.9                 | U | 1.9              | U | 1.9              | U |  |  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U | 1.7                 | U | 1.7              | U | 1.7              | U |  |  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5              | U | 2.5              | U | 2.5              | U | 2.5              | U | 2.5              | U | 2.5                 | U | 2.5              | U | 2.5              | U |  |  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83             | U | 0.83             | U | 0.83             | U | 0.83             | U | 0.83             | U | 0.83                | U | 0.83             | U | 0.83             | U |  |  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U | 1.7                 | U | 1.7              | U | 1.7              | U |  |  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5              | U | 1.5              | U | 1.5              | U | 1.5              | U | 1.5              | U | 1.5                 | U | 1.5              | U | 1.5              | U |  |  |
| 2-Hexanone                                                                     | 50                                            | 1.8              | U | 1.8              | U | 1.8              | U | 1.8              | U | 1.8              | U | 1.8                 | U | 1.8              | U | 1.8              | U |  |  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U | 1.7                 | U | 1.7              | U | 1.7              | U |  |  |
| Acetone                                                                        | 50                                            | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U | 1.9                 | U | 1.9              | U | 1.9              | U |  |  |
| Benzene                                                                        | 1                                             | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U | 1.6                 | U | 1.6              | U | 1.6              | U |  |  |
| Bromodichloromethane                                                           | 50                                            | 1.5              | U | 1.5              | U | 1.5              | U | 1.5              | U | 1.5              | U | 1.5                 | U | 1.5              | U | 1.5              | U |  |  |
| Bromoform                                                                      | 50                                            | 5.0              | U | 5.0              | U | 5.0              | U | 5.0              | U | 5.0              | U | 5.0                 | U | 5.0              | U | 5.0              | U |  |  |
| Bromomethane                                                                   | 5                                             | 4.3              | U | 4.3              | U | 4.3              | U | 4.3              | U | 4.3              | U | 4.3                 | U | 4.3              | U | 4.3              | U |  |  |
| Carbon disulfide                                                               | 60                                            | 2.1              | U | 2.1              | U | 2.1              | U | 2.1              | U | 2.1              | U | 2.1                 | U | 2.1              | U | 2.1              | U |  |  |
| Carbon tetrachloride                                                           | 5                                             | 2.0              | U | 2.0              | U | 2.0              | U | 2.0              | U | 2.0              | U | 2.0                 | U | 2.0              | U | 2.0              | U |  |  |
| Chlorobenzene                                                                  | 5                                             | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U | 1.6                 | U | 1.6              | U | 1.6              | U |  |  |
| Chlorobromomethane                                                             | 5                                             | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U | 1.7                 | U | 1.7              | U | 1.7              | U |  |  |
| Chloroethane                                                                   | 5                                             | 2.5              | U | 2.5              | U | 2.5              | U | 2.5              | U | 2.5              | U | 2.5                 | U | 2.5              | U | 2.5              | U |  |  |
| Chloroform                                                                     | 7                                             | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U | 1.9                 | U | 1.9              | U | 1.9              | U |  |  |
| Chloromethane                                                                  | 5                                             | 2.3              | U | 2.3              | U | 2.3              | U | 2.3              | U | 2.3              | U | 2.3                 | U | 2.3              | U | 2.3              | U |  |  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8              | U | 1.8              | U | 1.8              | U | 1.8              | U | 1.8              | U | 1.8                 | U | 1.8              | U | 1.8              | U |  |  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4              | U | 1.4              | U | 1.4              | U | 1.4              | U | 1.4              | U | 1.4                 | U | 1.4              | U | 1.4              | U |  |  |
| Ethylbenzene                                                                   | 5                                             | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U | 1.6                 | U | 1.6              | U | 1.6              | U |  |  |
| Methylene chloride                                                             | 5                                             | 1.3              | U | 1.3              | U | 1.3              | U | 1.3              | U | 1.3              | U | 1.3                 | U | 1.3              | U | 1.3              | U |  |  |
| Styrene                                                                        | 5                                             | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U | 1.7              | U | 1.7                 | U | 1.7              | U | 1.7              | U |  |  |
| Tetrachloroethene                                                              | 5                                             | 2.1              | U | 2.1              | U | 2.1              | U | 2.1              | U | 2.1              | U | 2.1                 | U | 4.5              | J | 2.1              | U |  |  |
| Toluene                                                                        | 5                                             | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U | 1.6                 | U | 1.6              | U | 1.6              | U |  |  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U | 1.9                 | U | 1.9              | U | 1.9              | U |  |  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U | 1.6              | U | 1.6                 | U | 1.6              | U | 1.6              | U |  |  |
| Trichloroethene                                                                | 5                                             | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U | 1.9              | U | 1.9                 | U | 1.9              | U | 1.9              | U |  |  |
| Vinyl chloride                                                                 | 2                                             | 2.3              | U | 2.3              | U | 2.3              | U | 2.3              | U | 2.3              | U | 2.3                 | U | 2.3              | U | 2.3              | U |  |  |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   | NA                  |   | NA               |   | NA               |   |  |  |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   | NA                  |   | NA               |   | NA               |   |  |  |
| Total Xylenes                                                                  | 5                                             | 0.82             | U | 0.82             | U | 0.82             | U | 0.82             | U | 0.82             | U | 0.82                | U | 0.82             | U | 0.82             | U |  |  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2012             |    |                     |    | 2011             |    |                  |    |                  |    | 2010             |     |                     |     |                  |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|---------------------|----|------------------|----|------------------|----|------------------|----|------------------|-----|---------------------|-----|------------------|----|
|                                                                                |                                               | FSMW-8B          |    | FSMW-8B - Duplicate |    | FSMW-8B          |    | FSMW-8B          |    | FSMW-8B          |    | FSMW-8B          |     | FSMW-8B - Duplicate |     | FSMW-8B          |    |
|                                                                                |                                               | Apr-12           |    | Apr-12              |    | Dec-11           |    | Jul-11           |    | Mar-11           |    | Dec-10           |     | Dec-10              |     | Sep-10           |    |
|                                                                                |                                               | 132-142 feet bgs |    | 132-142 feet bgs    |    | 132-142 feet bgs |    | 132-142 feet bgs |    | 132-142 feet bgs |    | 132-142 feet bgs |     | 132-142 feet bgs    |     | 132-142 feet bgs |    |
|                                                                                |                                               | (µg/L)           |    | (µg/L)              |    | (µg/L)           |    | (µg/L)           |    | (µg/L)           |    | (µg/L)           |     | (µg/L)              |     | (µg/L)           |    |
| Analyte                                                                        |                                               |                  |    |                     |    |                  |    |                  |    |                  |    |                  |     |                     |     |                  |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1              | U  | 2.1                 | U  | 2.1              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5              | U  | 1.5                 | U  | 1.5              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9              | U  | 1.9                 | U  | 1.9              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7              | U  | 1.7                 | U  | 1.7              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5              | U  | 2.5                 | U  | 2.5              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83             | U  | 0.83                | U  | 0.83             | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7              | U  | 1.7                 | U  | 1.7              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5              | U  | 1.5                 | U  | 1.5              | UJ | 0.10             | U  | 0.10             | UJ | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| 2-Hexanone                                                                     | 50                                            | 1.8              | U  | 1.8                 | U  | 1.8              | UJ | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7              | U  | 1.7                 | U  | 1.7              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Acetone                                                                        | 50                                            | 1.9              | U  | 1.9                 | U  | 1.9              | UJ | 0.46             | UJ | 0.35             | UJ | 0.63             | JB* | 0.56                | JB* | 1.1              | J  |
| Benzene                                                                        | 1                                             | 1.6              | U  | 1.6                 | U  | 1.60             | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Bromodichloromethane                                                           | 50                                            | 1.5              | U  | 1.5                 | U  | 1.5              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Bromoform                                                                      | 50                                            | 5.0              | U  | 5.0                 | U  | 5.0              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Bromomethane                                                                   | 5                                             | 4.3              | UJ | 4.3                 | UJ | 4.3              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Carbon disulfide                                                               | 60                                            | 2.1              | U  | 2.1                 | U  | 2.1              | U  | 0.10             | U  | 0.25             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0              | U  | 2.0                 | U  | 2.0              | U  | 0.10             | U  | 0.10             | U  | 0.14             | J   | 0.10                | U   | 0.10             | U  |
| Chlorobenzene                                                                  | 5                                             | 1.6              | U  | 1.6                 | U  | 1.6              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Chlorobromomethane                                                             | 5                                             | 1.7              | U  | 1.7                 | U  | 1.7              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Chloroethane                                                                   | 5                                             | 2.5              | U  | 2.5                 | U  | 2.5              | U  | 0.10             | U  | 0.10             | UJ | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Chloroform                                                                     | 7                                             | 1.9              | U  | 1.9                 | U  | 1.9              | U  | 0.10             | U  | 0.10             | U  | 0.11             | JB  | 0.10                | U   | 0.10             | U  |
| Chloromethane                                                                  | 5                                             | 2.3              | U  | 2.3                 | U  | 2.3              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.20             | J* |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8              | U  | 1.8                 | U  | 1.8              | U  | 0.10             | U  | 0.10             | U  | 2.3              | J   | 0.22                | J   | 0.21             | J  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4              | U  | 1.4                 | U  | 1.4              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6              | U  | 1.6                 | U  | 1.6              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Methylene chloride                                                             | 5                                             | 1.3              | U  | 1.3                 | U  | 1.3              | U  | 0.39             | U  | 0.27             | U  | 0.46             | JB  | 0.49                | JB  | 0.22             | JB |
| Styrene                                                                        | 5                                             | 1.7              | U  | 1.7                 | U  | 1.7              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Tetrachloroethene                                                              | 5                                             | 2.1              | U  | 2.1                 | U  | 3.0              | U  | 1.9              | J  | 2.4              | J  | 2.5              | J   | 2.8                 | J   | 2.6              | J  |
| Toluene                                                                        | 5                                             | 1.6              | U  | 1.6                 | U  | 1.6              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9              | U  | 1.9                 | U  | 1.9              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6              | U  | 1.6                 | U  | 1.6              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |
| Trichloroethene                                                                | 5                                             | 1.9              | U  | 1.9                 | U  | 1.9              | U  | 0.81             | J  | 1.3              | J  | 2.4              | J   | 2.4                 | J   | 2.4              | J  |
| Vinyl chloride                                                                 | 2                                             | 2.3              | U  | 2.3                 | U  | 2.3              | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U* |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA                  |    | NA               |    | NA               |    | NA               |    | NA               |     | NA                  |     | NA               |    |
| o-Xylene                                                                       | 5                                             | NA               |    | NA                  |    | NA               |    | NA               |    | NA               |    | NA               |     | NA                  |     | NA               |    |
| Total Xylenes                                                                  | 5                                             | 0.82             | U  | 0.82                | U  | 0.10             | U  | 0.10             | U  | 0.10             | U  | 0.10             | U   | 0.10                | U   | 0.10             | U  |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2010             |           |                  |            |                     |            | 2009             |            |                  |           |                  |            | 2008             |           |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|-----------|------------------|------------|---------------------|------------|------------------|------------|------------------|-----------|------------------|------------|------------------|-----------|
|                                                                                |                                               | FSMW-8B          |           | FSMW-8B          |            | FSMW-8B - Duplicate |            | FSMW-8B          |            | FSMW-8B          |           | FSMW-8B          |            | FSMW-8B          |           |
|                                                                                |                                               | Jun-10           |           | Mar-10           |            | Mar-10              |            | Dec-09           |            | Sep-09           |           | Jun-09           |            | Mar-09           |           |
|                                                                                |                                               | 132-142 feet bgs |           | 132-142 feet bgs |            | 132-142 feet bgs    |            | 132-142 feet bgs |            | 132-142 feet bgs |           | 132-142 feet bgs |            | 132-142 feet bgs |           |
|                                                                                |                                               | (µg/L)           |           | (µg/L)           |            | (µg/L)              |            | (µg/L)           |            | (µg/L)           |           | (µg/L)           |            | (µg/L)           |           |
| Analyte                                                                        |                                               |                  |           |                  |            |                     |            |                  |            |                  |           |                  |            |                  |           |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U*        | 0.10             | U*         | 0.10                | U*         | 0.10             | U*         | 0.10             | U*        | 0.10             | U*         | 0.10             | U         |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U*        | 0.10             | U*         | 0.10                | U*         | 0.10             | U*         | 0.10             | U*        | 0.10             | U*         | 0.10             | U         |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U*        |
| Acetone                                                                        | 50                                            | 0.10             | U*        | <b>0.10</b>      | <b>JB*</b> | <b>1.0</b>          | <b>JB*</b> | <b>0.48</b>      | <b>JB*</b> | 0.10             | U         | <b>0.89</b>      | <b>JB*</b> | <b>0.48</b>      | <b>J</b>  |
| Benzene                                                                        | 1                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Bromoform                                                                      | 50                                            | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Bromomethane                                                                   | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U*        |
| Carbon disulfide                                                               | 60                                            | 0.10             | U         | 0.10             | U          | <b>0.20</b>         | <b>J</b>   | <b>0.19</b>      | <b>J</b>   | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U         | <b>0.12</b>      | <b>J</b>   | <b>0.20</b>         | <b>J</b>   | <b>0.21</b>      | <b>J</b>   | 0.10             | U         | <b>0.18</b>      | <b>J</b>   | 0.10             | U         |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Chloroethane                                                                   | 5                                             | 0.10             | U         | <b>0.36</b>      | <b>J</b>   | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Chloroform                                                                     | 7                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | <b>0.11</b>      | <b>J</b>   | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Chloromethane                                                                  | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U         | <b>0.28</b>      | <b>J</b>   | <b>0.35</b>         | <b>J</b>   | <b>0.32</b>      | <b>J</b>   | <b>0.28</b>      | <b>J</b>  | <b>0.25</b>      | <b>J</b>   | <b>0.26</b>      | <b>J</b>  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Methylene chloride                                                             | 5                                             | <b>0.22</b>      | <b>JB</b> | <b>0.48</b>      | <b>JB</b>  | <b>0.42</b>         | <b>JB</b>  | <b>0.55</b>      | <b>JB</b>  | <b>0.37</b>      | <b>JB</b> | <b>0.38</b>      | <b>JB</b>  | <b>0.14</b>      | <b>JB</b> |
| Styrene                                                                        | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Tetrachloroethene                                                              | 5                                             | <b>3.0</b>       | <b>J</b>  | <b>3.7</b>       | <b>J</b>   | <b>3.2</b>          | <b>J</b>   | <b>2.7</b>       | <b>J</b>   | <b>2.2</b>       | <b>J</b>  | <b>2.1</b>       | <b>J</b>   | <b>1.6</b>       | <b>J</b>  |
| Toluene                                                                        | 5                                             | 0.10             | U         | 0.10             | U          | <b>0.18</b>         | <b>J</b>   | 0.10             | U          | 0.10             | U         | 0.10             | U          | <b>0.13</b>      | <b>J</b>  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| Trichloroethene                                                                | 5                                             | <b>2.7</b>       | <b>J</b>  | <b>3.0</b>       | <b>J</b>   | <b>3.0</b>          | <b>J</b>   | <b>3.0</b>       | <b>J</b>   | <b>2.5</b>       | <b>J</b>  | <b>2.2</b>       | <b>J</b>   | <b>1.9</b>       | <b>J</b>  |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |
| m+p Xylene                                                                     | 5                                             | NA               |           | NA               |            | NA                  |            | NA               |            | NA               |           | NA               |            | NA               |           |
| o-Xylene                                                                       | 5                                             | NA               |           | NA               |            | NA                  |            | NA               |            | NA               |           | NA               |            | NA               |           |
| Total Xylenes                                                                  | 5                                             | 0.10             | U         | 0.10             | U          | 0.10                | U          | 0.10             | U          | 0.10             | U         | 0.10             | U          | 0.10             | U         |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2008             |    |                  |   |                     |    |                  |   | 2007             |   |                  |   |                  |   |                  |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|------------------|---|---------------------|----|------------------|---|------------------|---|------------------|---|------------------|---|------------------|---|
|                                                                                |                                               | FSMW-8B          |    | FSMW-8B          |   | FSMW-8B - Duplicate |    | FSMW-8B          |   | FSMW-8B          |   | FSMW-8B          |   | FSMW-8B          |   | FSMW-8B          |   |
|                                                                                |                                               | Sep-08           |    | Jun-08           |   | Jun-08              |    | Mar-08           |   | Dec-07           |   | Aug-07           |   | May-07           |   | Feb-07           |   |
|                                                                                |                                               | 132-142 feet bgs |    | 132-142 feet bgs |   | 132-142 feet bgs    |    | 132-142 feet bgs |   | 132-142 feet bgs |   | 132-142 feet bgs |   | 132-142 feet bgs |   | 132-142 feet bgs |   |
|                                                                                |                                               | (µg/L)           |    | (µg/L)           |   | (µg/L)              |    | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   |
| Analyte                                                                        |                                               |                  |    |                  |   |                     |    |                  |   |                  |   |                  |   |                  |   |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 10               | U | 0.10             | U | 10               | U | 10               | U |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 10               | U | 0.10             | U | 10               | U | 10               | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 10               | U | 0.10             | U | 10               | U | 10               | U |
| Acetone                                                                        | 50                                            | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 10               | U | 0.10             | U | 10               | U | 10               | U |
| Benzene                                                                        | 1                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Bromoform                                                                      | 50                                            | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Bromomethane                                                                   | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Carbon disulfide                                                               | 60                                            | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Chloroethane                                                                   | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Chloroform                                                                     | 7                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Chloromethane                                                                  | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Methylene chloride                                                             | 5                                             | 0.29             | JB | 0.10             | U | 0.74                | JB | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Styrene                                                                        | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Tetrachloroethene                                                              | 5                                             | 1.3              | J  | 1.9              | J | 1.7                 | J  | 1.6              | J | 10               | U | 2.4              | J | 10               | U | 18               |   |
| Toluene                                                                        | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 0.63             | J | 0.10             | U | 10               | U | 10               | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 0.75             | J | 10               | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| Trichloroethene                                                                | 5                                             | 1.5              | J  | 1.4              | J | 1.5                 | J  | 1.2              | J | 0.98             | J | 1.4              | J | 1.2              | J | 1.2              | J |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 0.10             | U | 5                | U | 0.10             | U | 10               | U | 10               | U |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA               |   | NA                  |    | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   |
| o-Xylene                                                                       | 5                                             | NA               |    | NA               |   | NA                  |    | NA               |   | NA               |   | NA               |   | NA               |   | NA               |   |
| Total Xylenes                                                                  | 5                                             | 0.10             | U  | 0.10             | U | 0.10                | U  | 5                | U | 0.10             | U | 10               | U | 10               | U | 10               | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2006             |   |                     |   |                  |   | 2018           |   | 2016           |   | 2015           |   | 2014           |   |                     |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|---------------------|---|------------------|---|----------------|---|----------------|---|----------------|---|----------------|---|---------------------|---|
|                                                                                |                                               | FSMW-8B          |   | FSMW-8B - Duplicate |   | FSMW-8B          |   | FSMW-9A        |   | FSMW-9A        |   | FSMW-9A        |   | FSMW-9A        |   | FSMW-9A - Duplicate |   |
|                                                                                |                                               | Nov-06           |   | Nov-06              |   | Aug-06           |   | Mar-18         |   | Dec-16         |   | Oct-15         |   | Oct-14         |   | Oct-14              |   |
|                                                                                |                                               | 132-142 feet bgs |   | 132-142 feet bgs    |   | 132-142 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs      |   |
|                                                                                |                                               | (µg/L)           |   | (µg/L)              |   | (µg/L)           |   | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)         |   | (µg/L)              |   |
| Analyte                                                                        |                                               |                  |   |                     |   |                  |   |                |   |                |   |                |   |                |   |                     |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 2.1            | U | 2.1            | U | 2.1                 | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.5            | U | 1.5            | U | 1.5                 | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.9            | U | 1.9            | U | 1.9                 | U |
| 1,1-Dichloroethane                                                             | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.7            | U | 1.7            | U | 1.7                 | U |
| 1,1-Dichloroethene                                                             | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 2.5            | U | 2.5            | U | 2.5                 | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 0.83           | U | 0.83           | U | 0.83                | U |
| 1,2-Dichloropropane                                                            | 1                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.7            | U | 1.7            | U | 1.7                 | U |
| 2-Butanone (MEK)                                                               | 50                                            | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.5            | U | 1.5            | U | 1.5                 | U |
| 2-Hexanone                                                                     | 50                                            | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.8            | U | 1.8            | U | 1.8                 | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.7            | U | 1.7            | U | 1.7                 | U |
| Acetone                                                                        | 50                                            | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.9            | U | 1.9            | U | 1.9                 | U |
| Benzene                                                                        | 1                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.6            | U | 1.6            | U | 1.6                 | U |
| Bromodichloromethane                                                           | 50                                            | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.5            | U | 1.5            | U | 1.5                 | U |
| Bromoform                                                                      | 50                                            | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 5.0            | U | 5.0            | U | 5.0                 | U |
| Bromomethane                                                                   | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 4.3            | U | 4.3            | U | 4.3                 | U |
| Carbon disulfide                                                               | 60                                            | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 2.1            | U | 2.1            | U | 2.1                 | U |
| Carbon tetrachloride                                                           | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 2.0            | U | 2.0            | U | 2.0                 | U |
| Chlorobenzene                                                                  | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.6            | U | 1.6            | U | 1.6                 | U |
| Chlorobromomethane                                                             | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.7            | U | 1.7            | U | 1.7                 | U |
| Chloroethane                                                                   | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 2.5            | U | 2.5            | U | 2.5                 | U |
| Chloroform                                                                     | 7                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.9            | U | 1.9            | U | 1.9                 | U |
| Chloromethane                                                                  | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 2.3            | U | 2.3            | U | 2.3                 | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 1.3            | J | 2.1            | J | 14             |   | 14                  |   |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.4            | U | 1.4            | U | 1.4                 | U |
| Ethylbenzene                                                                   | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.6            | U | 1.6            | U | 1.6                 | U |
| Methylene chloride                                                             | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.3            | U | 1.3            | U | 1.3                 | U |
| Styrene                                                                        | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.7            | U | 1.7            | U | 1.7                 | U |
| Tetrachloroethene                                                              | 5                                             | 10               | U | 3                   | J | 17               |   | 10             |   | 4.1            | J | 7.4            | J | 93             |   | 93                  |   |
| Toluene                                                                        | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 3.0            | J | 1.6            | U | 1.6            | U | 1.6                 | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.9            | U | 1.9            | U | 1.9                 | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 1.6            | U | 1.6            | U | 1.6                 | U |
| Trichloroethene                                                                | 5                                             | 2                | J | 2                   | J | 1                | J | 0.66           | J | 0.83           | J | 1.9            | U | 8.9            | J | 8.9                 | J |
| Vinyl chloride                                                                 | 2                                             | 10               | U | 10                  | U | 10               | U | 0.10           | U | 0.10           | U | 2.3            | U | 2.3            | U | 2.3                 | U |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA                  |   | NA               |   | NA             |   | NA             |   | NA             |   | NA             |   | NA                  |   |
| o-Xylene                                                                       | 5                                             | NA               |   | NA                  |   | NA               |   | NA             |   | NA             |   | NA             |   | NA             |   | NA                  |   |
| Total Xylenes                                                                  | 5                                             | 10               | U | 10                  | U | 0.82             | U | 0.10           | U | 0.10           | U | 0.82           | U | 0.82           | U | 4.1                 | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2013           |   | 2012           |    | 2010           |     | 2009           |    | 2008           |   | 2007           |   | 2006           |    | 2018             |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|---|----------------|----|----------------|-----|----------------|----|----------------|---|----------------|---|----------------|----|------------------|---|
|                                                                                |                                               | FSMW-9A        |   | FSMW-9A        |    | FSMW-9A        |     | FSMW-9A        |    | FSMW-9A        |   | FSMW-9A        |   | FSMW-9A        |    | FSMW-9B          |   |
|                                                                                |                                               | Oct-13         |   | Nov-12         |    | Sep-10         |     | Sep-09         |    | Sep-08         |   | Aug-07         |   | Aug-06         |    | Mar-18           |   |
|                                                                                |                                               | 60-70 feet bgs |   | 60-70 feet bgs |    | 60-70 feet bgs |     | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |   | 60-70 feet bgs |    | 137-147 feet bgs |   |
|                                                                                |                                               | (µg/L)         |   | (µg/L)         |    | (µg/L)         |     | (µg/L)         |    | (µg/L)         |   | (µg/L)         |   | (µg/L)         |    | (µg/L)           |   |
| Analyte                                                                        |                                               |                |   |                |    |                |     |                |    |                |   |                |   |                |    |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 11             | U | 2.1            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 7.5            | U | 1.5            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 9.5            | U | 1.9            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 8.5            | U | 1.7            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| 1,1-Dichloroethene                                                             | 5                                             | 13             | U | 2.5            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 4.2            | U | 0.83           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 8.5            | U | 1.7            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 7.5            | U | 1.5            | UJ | 0.10           | U*  | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| 2-Hexanone                                                                     | 50                                            | 9.0            | U | 1.8            | UJ | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 8.5            | U | 1.7            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Acetone                                                                        | 50                                            | 9.5            | U | 1.9            | UJ | 0.90           | JB* | 1              | J  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Benzene                                                                        | 1                                             | 8.0            | U | 1.6            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Bromodichloromethane                                                           | 50                                            | 7.5            | U | 1.5            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Bromoform                                                                      | 50                                            | 25             | U | 5.0            | UJ | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Bromomethane                                                                   | 5                                             | 22             | U | 4.3            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | UJ | 0.10             | U |
| Carbon disulfide                                                               | 60                                            | 11             | U | 2.1            | U  | 0.10           | U*  | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Carbon tetrachloride                                                           | 5                                             | 10             | U | 2.0            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Chlorobenzene                                                                  | 5                                             | 8.0            | U | 1.6            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.63           | J | 500            | U  | 0.10             | U |
| Chlorobromomethane                                                             | 5                                             | 8.5            | U | 1.7            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Chloroethane                                                                   | 5                                             | 13             | U | 2.5            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | UJ | 0.10             | U |
| Chloroform                                                                     | 7                                             | 9.5            | U | 1.9            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Chloromethane                                                                  | 5                                             | 12             | U | 2.3            | U  | 0.10           | U*  | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 320            |   | 270            | D  | 0.22           | J   | 0.1            | J  | 0.10           | U | 4.3            | J | 500            | U  | 0.10             | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 7.0            | U | 1.4            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Ethylbenzene                                                                   | 5                                             | 8.0            | U | 1.6            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Methylene chloride                                                             | 5                                             | 6.5            | U | 1.3            | U  | 0.23           | JB  | 0.42           | JB | 0.10           | U | 0.10           | U | 110            | J  | 0.10             | U |
| Styrene                                                                        | 5                                             | 8.5            | U | 1.7            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Tetrachloroethene                                                              | 5                                             | 770            |   | 440            | D  | 16             | B   | 28             | U  | 52             |   | 500            |   | 3,900          |    | 0.73             | J |
| Toluene                                                                        | 5                                             | 8.0            | U | 2.0            | J  | 0.33           | J   | 0.13           | J  | 0.10           | U | 0.43           | J | 500            | U  | 0.10             | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 9.5            | U | 1.9            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 8.0            | U | 1.6            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| Trichloroethene                                                                | 5                                             | 160            |   | 190            |    | 0.32           | J   | 0.28           | J  | 0.59           | J | 36             |   | 260            | J  | 0.10             | U |
| Vinyl chloride                                                                 | 2                                             | 12             | U | 2.3            | U  | 0.10           | U*  | 0.10           | U  | 0.10           | U | 0.10           | U | 500            | U  | 0.10             | U |
| m+p Xylene                                                                     | 5                                             | NA             |   | NA             |    | NA             |     | NA             |    | NA             |   | NA             |   | NA             |    | NA               |   |
| o-Xylene                                                                       | 5                                             | NA             |   | NA             |    | NA             |     | NA             |    | NA             |   | NA             |   | NA             |    | NA               |   |
| Total Xylenes                                                                  | 5                                             | 0.82           | U | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U | 500            | U | 0.82           | U  | 0.10             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2016             |          | 2015             |   | 2014             |          | 2013             |    | 2012             |    | 2010             |            | 2009             |           |                     |           |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----------|------------------|---|------------------|----------|------------------|----|------------------|----|------------------|------------|------------------|-----------|---------------------|-----------|
|                                                                                |                                               | FSMW-9B          |          | FSMW-9B          |   | FSMW-9B          |          | FSMW-9B          |    | FSMW-9B          |    | FSMW-9B          |            | FSMW-9B          |           | FSMW-9B - Duplicate |           |
|                                                                                |                                               | Dec-16           |          | Oct-15           |   | Oct-14           |          | Oct-13           |    | Nov-12           |    | Sep-10           |            | Oct-09           |           | Oct-09              |           |
|                                                                                |                                               | 137-147 feet bgs |          | 137-147 feet bgs |   | 137-147 feet bgs |          | 137-147 feet bgs |    | 137-147 feet bgs |    | 137-147 feet bgs |            | 137-147 feet bgs |           | 137-147 feet bgs    |           |
|                                                                                |                                               | (µg/L)           |          | (µg/L)           |   | (µg/L)           |          | (µg/L)           |    | (µg/L)           |    | (µg/L)           |            | (µg/L)           |           | (µg/L)              |           |
| Analyte                                                                        |                                               |                  |          |                  |   |                  |          |                  |    |                  |    |                  |            |                  |           |                     |           |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U        | 2.1              | U | 2.1              | U        | 2.1              | U  | 2.1              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | UJ       | 1.5              | U | 1.5              | U        | 1.5              | U  | 1.5              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U        | 1.9              | U | 1.9              | U        | 1.9              | U  | 1.9              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | UJ       | 1.7              | U | 1.7              | U        | 1.7              | U  | 1.7              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U        | 2.5              | U | 2.5              | U        | 2.5              | U  | 2.5              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U        | 0.83             | U | 0.83             | U        | 0.83             | U  | 0.83             | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U        | 1.7              | U | 1.7              | U        | 1.7              | U  | 1.7              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | UJ       | 1.5              | U | 1.5              | U        | 1.5              | U  | 1.5              | UJ | 0.10             | U*         | 0.10             | U         | 0.10                | U         |
| 2-Hexanone                                                                     | 50                                            | 0.10             | UJ       | 1.8              | U | 1.8              | U        | 1.8              | U  | 1.8              | UJ | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | UJ       | 1.7              | U | 1.7              | U        | 1.7              | U  | 1.7              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Acetone                                                                        | 50                                            | 0.10             | UJ       | 1.9              | U | 1.9              | U        | 4.1              | U  | 1.9              | UJ | <b>0.93</b>      | <b>JB*</b> | <b>1.2</b>       | <b>J</b>  | 1.20                | U         |
| Benzene                                                                        | 1                                             | 0.10             | U        | 1.6              | U | 1.6              | U        | 1.6              | U  | 1.6              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U        | 1.5              | U | 1.5              | U        | 1.5              | U  | 1.5              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Bromoform                                                                      | 50                                            | 0.10             | U        | 5.0              | U | 5.0              | UJ       | 5.0              | U  | 5.0              | UJ | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Bromomethane                                                                   | 5                                             | 0.10             | U        | 4.3              | U | 4.3              | U        | 4.3              | UJ | 4.3              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Carbon disulfide                                                               | 60                                            | 0.10             | U        | 2.1              | U | 2.1              | U        | 2.1              | U  | 2.1              | U  | 0.10             | U*         | 0.10             | U         | 0.10                | U         |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U        | 2.0              | U | 2.0              | U        | 2.0              | U  | 2.0              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U        | 1.6              | U | 1.6              | U        | 1.6              | U  | 1.6              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U        | 1.7              | U | 1.7              | U        | 1.7              | U  | 1.7              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Chloroethane                                                                   | 5                                             | 0.10             | UJ       | 2.5              | U | 2.5              | U        | 2.5              | U  | 2.5              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Chloroform                                                                     | 7                                             | 0.10             | U        | 1.9              | U | 1.9              | U        | 1.9              | U  | 1.9              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Chloromethane                                                                  | 5                                             | 0.10             | UJ       | 2.3              | U | 2.3              | U        | 2.3              | U  | 2.3              | U  | 0.10             | U*         | 0.10             | U         | 0.10                | U         |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U        | 1.8              | U | 1.8              | U        | 1.8              | U  | 1.8              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U        | 1.4              | U | 1.4              | U        | 1.4              | U  | 1.4              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U        | 1.6              | U | 1.6              | U        | 1.6              | U  | 1.6              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Methylene chloride                                                             | 5                                             | 0.10             | U        | 1.3              | U | 1.3              | U        | 1.3              | U  | 1.3              | U  | <b>0.28</b>      | <b>JB</b>  | <b>0.4</b>       | <b>JB</b> | <b>0.46</b>         | <b>JB</b> |
| Styrene                                                                        | 5                                             | 0.10             | U        | 1.7              | U | 1.7              | U        | 1.7              | U  | 1.7              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Tetrachloroethene                                                              | 5                                             | 0.77             | U        | 2.1              | U | <b>2.4</b>       | <b>J</b> | 2.1              | U  | <b>14</b>        |    | <b>7.2</b>       | <b>JB</b>  | <b>9.3</b>       | <b>J</b>  | <b>10</b>           | <b>J</b>  |
| Toluene                                                                        | 5                                             | 0.10             | U        | 1.6              | U | 1.6              | U        | 1.6              | U  | 1.6              | U  | 0.10             | U          | <b>0.2</b>       | <b>J</b>  | <b>0.17</b>         | <b>J</b>  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U        | 1.9              | U | 1.9              | U        | 1.9              | U  | 1.9              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U        | 1.6              | U | 1.6              | U        | 1.6              | U  | 1.6              | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |
| Trichloroethene                                                                | 5                                             | <b>0.20</b>      | <b>J</b> | 1.9              | U | 1.9              | U        | 1.9              | U  | 1.9              | U  | <b>0.24</b>      | <b>J</b>   | <b>0.47</b>      | <b>J</b>  | <b>0.49</b>         | <b>J</b>  |
| Vinyl chloride                                                                 | 2                                             | 0.10             | UJ       | 2.3              | U | 2.3              | U        | 2.3              | U  | 2.3              | U  | 0.10             | U*         | 0.10             | U         | 0.10                | U         |
| m+p Xylene                                                                     | 5                                             | NA               |          | NA               |   | NA               |          | NA               |    | NA               |    | NA               |            | NA               |           | NA                  |           |
| o-Xylene                                                                       | 5                                             | NA               |          | NA               |   | NA               |          | NA               |    | NA               |    | NA               |            | NA               |           | NA                  |           |
| Total Xylenes                                                                  | 5                                             | 0.10             | U        | 0.82             | U | 0.82             | U        | 0.82             | U  | 0.10             | U  | 0.10             | U          | 0.10             | U         | 0.10                | U         |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2008             |    | 2007             |   | 2006             |    | 2018           |   | 2016           |    | 2015           |   | 2014           |    | 2013           |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|------------------|---|------------------|----|----------------|---|----------------|----|----------------|---|----------------|----|----------------|----|
|                                                                                |                                               | FSMW-9B          |    | FSMW-9B          |   | FSMW-9B          |    | FSMW-10A       |   | FSMW-10A       |    | FSMW-10A       |   | FSMW-10A       |    | FSMW-10A       |    |
|                                                                                |                                               | Sep-08           |    | Aug-07           |   | Aug-06           |    | Mar-18         |   | Dec-16         |    | Oct-15         |   | Sep-14         |    | Oct-13         |    |
|                                                                                |                                               | 137-147 feet bgs |    | 137-147 feet bgs |   | 137-147 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs |    | 60-70 feet bgs |    |
|                                                                                |                                               | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |    |
| Analyte                                                                        |                                               |                  |    |                  |   |                  |    |                |   |                |    |                |   |                |    |                |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 2.1            | U | 2.1            | U  | 2.1            | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | UJ | 1.5            | U | 1.5            | U  | 1.5            | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.9            | U | 1.9            | U  | 1.9            | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | UJ | 1.7            | U | 1.7            | U  | 1.7            | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 2.5            | U | 2.5            | U  | 2.5            | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 0.83           | U | 0.83           | U  | 0.83           | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.7            | U | 1.7            | U  | 1.7            | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | UJ | 1.5            | U | 1.5            | U  | 1.5            | U  |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | UJ | 1.8            | U | 1.8            | U  | 1.8            | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | UJ | 1.7            | U | 1.7            | U  | 1.7            | U  |
| Acetone                                                                        | 50                                            | 0.10             | U* | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | UJ | 1.9            | U | 1.9            | U  | 1.9            | U  |
| Benzene                                                                        | 1                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.6            | U | 1.6            | U  | 1.6            | U  |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.5            | U | 1.5            | U  | 1.5            | U  |
| Bromoform                                                                      | 50                                            | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 5.0            | U | 5.0            | UJ | 5.0            | U  |
| Bromomethane                                                                   | 5                                             | 0.10             | U  | 0.10             | U | 10               | UJ | 0.10           | U | 0.10           | U  | 4.3            | U | 4.3            | U  | 4.3            | UJ |
| Carbon disulfide                                                               | 60                                            | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 2.1            | U | 2.1            | U  | 2.1            | U  |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 2.0            | U | 2.0            | U  | 2.0            | U  |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.6            | U | 1.6            | U  | 1.6            | U  |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.7            | U | 1.7            | U  | 1.7            | U  |
| Chloroethane                                                                   | 5                                             | 0.10             | U  | 0.10             | U | 10               | UJ | 0.10           | U | 0.10           | UJ | 2.5            | U | 2.5            | U  | 2.5            | U  |
| Chloroform                                                                     | 7                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.9            | U | 1.9            | U  | 1.9            | U  |
| Chloromethane                                                                  | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | UJ | 2.3            | U | 2.3            | U  | 2.3            | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.8            | U | 1.8            | U  | 1.8            | U  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.4            | U | 1.4            | U  | 1.4            | U  |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.6            | U | 1.6            | U  | 1.6            | U  |
| Methylene chloride                                                             | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.3            | U | 1.3            | U  | 1.3            | U  |
| Styrene                                                                        | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.7            | U | 1.7            | U  | 1.7            | U  |
| Tetrachloroethene                                                              | 5                                             | 29               |    | 25               |   | 10               | U  | 2.0            | J | 0.69           | U  | 3.2            | J | 3.2            | U  | 140            |    |
| Toluene                                                                        | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 1.40           | J  | 1.6            | U | 1.6            | U  | 1.6            | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.9            | U | 1.9            | U  | 1.9            | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | U  | 1.6            | U | 1.6            | U  | 1.6            | U  |
| Trichloroethene                                                                | 5                                             | 0.50             | J* | 1.1              | J | 2                | J  | 0.10           | U | 0.10           | U  | 1.9            | U | 1.9            | U  | 2.3            | J  |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U  | 0.10             | U | 10               | U  | 0.10           | U | 0.10           | UJ | 2.3            | U | 2.3            | U  | 2.3            | U  |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA               |   | NA               |    | NA             |   | NA             |    | NA             |   | NA             |    | NA             |    |
| o-Xylene                                                                       | 5                                             | NA               |    | NA               |   | NA               |    | NA             |   | NA             |    | NA             |   | NA             |    | NA             |    |
| Total Xylenes                                                                  | 5                                             | 0.10             | U  | 10               | U | 0.82             | U  | 0.10           | U | 0.10           | U  | 0.82           | U | 0.82           | U  | 0.82           | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2012           |    |                      |    | 2010           |    |                      |    | 2009           |    | 2008           |   |                      |   | 2007           |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------------|----|----------------|----|----------------------|----|----------------|----|----------------|---|----------------------|---|----------------|---|
|                                                                                |                                               | FSMW-10A       |    | FSMW-10A - Duplicate |    | FSMW-10A       |    | FSMW-10A - Duplicate |    | FSMW-10A       |    | FSMW-10A       |   | FSMW-10A - Duplicate |   | FSMW-10A       |   |
|                                                                                |                                               | Nov-12         |    | Nov-12               |    | Sep-10         |    | Sep-10               |    | Sep-09         |    | Sep-08         |   | Sep-08               |   | Aug-07         |   |
|                                                                                |                                               | 60-70 feet bgs |    | 60-70 feet bgs       |    | 60-70 feet bgs |    | 60-70 feet bgs       |    | 60-70 feet bgs |    | 60-70 feet bgs |   | 60-70 feet bgs       |   | 60-70 feet bgs |   |
|                                                                                |                                               | (µg/L)         |    | (µg/L)               |    | (µg/L)         |    | (µg/L)               |    | (µg/L)         |    | (µg/L)         |   | (µg/L)               |   | (µg/L)         |   |
| Analyte                                                                        |                                               |                |    |                      |    |                |    |                      |    |                |    |                |   |                      |   |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1            | U  | 2.1                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5            | U  | 1.5                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9            | U  | 1.9                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7            | U  | 1.7                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5            | UJ | 2.5                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83           | U  | 0.83                 | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7            | U  | 1.7                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5            | U  | 1.5                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U* | 0.10           | U | 0.10                 | U | 0.10           | U |
| 2-Hexanone                                                                     | 50                                            | 1.8            | U  | 1.8                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U* | 0.10           | U | 0.10                 | U | 0.10           | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7            | U  | 1.7                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Acetone                                                                        | 50                                            | 1.9            | U  | 1.9                  | U  | 1.6            | J  | 1.1                  | J  | 0.10           | U* | 0.10           | U | 0.10                 | U | 0.10           | U |
| Benzene                                                                        | 1                                             | 1.6            | U  | 1.6                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Bromodichloromethane                                                           | 50                                            | 1.5            | U  | 1.5                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Bromoform                                                                      | 50                                            | 5.0            | UJ | 5.0                  | UJ | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Bromomethane                                                                   | 5                                             | 4.3            | UJ | 4.3                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Carbon disulfide                                                               | 60                                            | 2.1            | U  | 2.1                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Carbon tetrachloride                                                           | 5                                             | 2.0            | U  | 2.0                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Chlorobenzene                                                                  | 5                                             | 1.6            | U  | 1.6                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Chlorobromomethane                                                             | 5                                             | 1.7            | U  | 1.7                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Chloroethane                                                                   | 5                                             | 2.5            | U  | 2.5                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Chloroform                                                                     | 7                                             | 1.9            | U  | 1.9                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Chloromethane                                                                  | 5                                             | 2.3            | U  | 2.3                  | U  | 0.25           | J* | 0.20                 | J* | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8            | U  | 1.8                  | U  | 0.17           | J  | 0.15                 | J  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4            | U  | 1.4                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Ethylbenzene                                                                   | 5                                             | 1.6            | U  | 1.6                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Methylene chloride                                                             | 5                                             | 1.3            | U  | 1.3                  | U  | 0.26           | JB | 0.25                 | JB | 0.36           | JB | 0.10           | U | 0.10                 | U | 0.10           | U |
| Styrene                                                                        | 5                                             | 1.7            | U  | 1.7                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Tetrachloroethene                                                              | 5                                             | 12             |    | 10                   |    | 200            | B  | 200                  | B  | 44             |    | 11             |   | 11                   |   | 72             |   |
| Toluene                                                                        | 5                                             | 1.6            | U  | 1.6                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9            | U  | 1.9                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6            | U  | 1.6                  | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| Trichloroethene                                                                | 5                                             | 1.9            | U  | 1.9                  | U  | 1.9            | J  | 2.0                  | J  | 0.54           | J  | 0.10           | U | 0.10                 | U | 1.5            | J |
| Vinyl chloride                                                                 | 2                                             | 2.3            | U  | 2.3                  | U  | 0.10           | U* | 0.10                 | U* | 0.10           | U  | 0.10           | U | 0.10                 | U | 0.10           | U |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA                   |    | NA             |    | NA                   |    | NA             |    | NA             |   | NA                   |   | NA             |   |
| o-Xylene                                                                       | 5                                             | NA             |    | NA                   |    | NA             |    | NA                   |    | NA             |    | NA             |   | NA                   |   | NA             |   |
| Total Xylenes                                                                  | 5                                             | 0.82           | U  | 0.10                 | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U | 0.10                 | U | 10             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2006           |          | 2018             |          | 2016             |          | 2015             |   | 2014             |    | 2013             |    | 2010             |           | 2009             |            |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----------|------------------|----------|------------------|----------|------------------|---|------------------|----|------------------|----|------------------|-----------|------------------|------------|
|                                                                                |                                               | FSMW-10A       |          | FSMW-10B         |          | FSMW-10B         |          | FSMW-10B         |   | FSMW-10B         |    | FSMW-10B         |    | FSMW-10B         |           | FSMW-10B         |            |
|                                                                                |                                               | Aug-06         |          | Mar-18           |          | Dec-16           |          | Oct-15           |   | Oct-14           |    | Oct-13           |    | Sep-10           |           | Sep-09           |            |
|                                                                                |                                               | 60-70 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |          | 137-147 feet bgs |   | 137-147 feet bgs |    | 137-147 feet bgs |    | 137-147 feet bgs |           | 137-147 feet bgs |            |
|                                                                                |                                               | (µg/L)         |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |   | (µg/L)           |    | (µg/L)           |    | (µg/L)           |           | (µg/L)           |            |
| Analyte                                                                        |                                               |                |          |                  |          |                  |          |                  |   |                  |    |                  |    |                  |           |                  |            |
| 1,1,1-Trichloroethane                                                          | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 2.1              | U | 2.1              | U  | 2.1              | U  | 0.10             | U         | 0.10             | U          |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 10             | U        | 0.10             | U        | 0.10             | UJ       | 1.5              | U | 1.5              | U  | 1.5              | U  | 0.10             | U         | 0.10             | U          |
| 1,1,2-Trichloroethane                                                          | 1                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.9              | U | 1.9              | U  | 1.9              | U  | 0.10             | U         | 0.10             | U          |
| 1,1-Dichloroethane                                                             | 5                                             | 10             | U        | 0.10             | U        | 0.10             | UJ       | 1.7              | U | 1.7              | U  | 1.7              | U  | <b>0.27</b>      | <b>J</b>  | <b>0.27</b>      | <b>J</b>   |
| 1,1-Dichloroethene                                                             | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 2.5              | U | 2.5              | U  | 2.5              | U  | <b>0.11</b>      | <b>J</b>  | <b>0.12</b>      | <b>J</b>   |
| 1,2-Dichloroethane                                                             | 0.6                                           | 10             | UJ       | 0.10             | U        | 0.10             | U        | 0.83             | U | 0.83             | U  | 0.83             | U  | 0.10             | U         | 0.10             | U          |
| 1,2-Dichloropropane                                                            | 1                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.7              | U | 1.7              | U  | 1.7              | U  | 0.10             | U         | 0.10             | U          |
| 2-Butanone (MEK)                                                               | 50                                            | 10             | UJ       | 0.10             | U        | 0.10             | UJ       | 1.5              | U | 1.5              | U  | 1.5              | U  | 0.10             | U         | 0.10             | U*         |
| 2-Hexanone                                                                     | 50                                            | 10             | U        | 0.10             | U        | 0.10             | UJ       | 1.8              | U | 1.8              | U  | 1.8              | U  | 0.10             | U         | 0.10             | U          |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 10             | U        | 0.10             | U        | 0.10             | UJ       | 1.7              | U | 1.7              | U  | 1.7              | U  | 0.10             | U         | 0.10             | U          |
| Acetone                                                                        | 50                                            | 10             | U        | 0.10             | U        | 0.10             | UJ       | 1.9              | U | 1.9              | U  | 1.9              | U  | <b>1.2</b>       | <b>J</b>  | <b>0.62</b>      | <b>JB*</b> |
| Benzene                                                                        | 1                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.6              | U | 1.6              | U  | 1.6              | U  | 0.10             | U         | 0.10             | U          |
| Bromodichloromethane                                                           | 50                                            | 10             | U        | 0.10             | U        | 0.10             | U        | 1.5              | U | 1.5              | U  | 1.5              | U  | 0.10             | U         | 0.10             | U          |
| Bromoform                                                                      | 50                                            | 10             | U        | 0.10             | U        | 0.10             | U        | 5.0              | U | 5.0              | UJ | 5.0              | U  | 0.10             | U         | 0.10             | U          |
| Bromomethane                                                                   | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 4.3              | U | 4.3              | U  | 4.3              | UJ | 0.10             | U         | 0.10             | U          |
| Carbon disulfide                                                               | 60                                            | 10             | U        | 0.10             | U        | 0.10             | U        | 2.1              | U | 2.1              | U  | 2.1              | U  | 0.10             | U         | 0.10             | U          |
| Carbon tetrachloride                                                           | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 2.0              | U | 2.0              | U  | 2.0              | U  | 0.10             | U         | 0.10             | U          |
| Chlorobenzene                                                                  | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.6              | U | 1.6              | U  | 1.6              | U  | 0.10             | U         | 0.10             | U          |
| Chlorobromomethane                                                             | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.7              | U | 1.7              | U  | 1.7              | U  | 0.10             | U         | 0.10             | U          |
| Chloroethane                                                                   | 5                                             | 10             | U        | 0.10             | U        | 0.10             | UJ       | 2.5              | U | 2.5              | U  | 2.5              | U  | 0.10             | U         | 0.10             | U          |
| Chloroform                                                                     | 7                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.9              | U | 1.9              | U  | 1.9              | U  | 0.10             | U         | 0.10             | U          |
| Chloromethane                                                                  | 5                                             | 10             | U        | 0.10             | U        | 0.10             | UJ       | 2.3              | U | 2.3              | U  | 2.3              | U  | 0.10             | U*        | 0.10             | U          |
| cis-1,2-Dichloroethene                                                         | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.8              | U | 1.8              | U  | 1.8              | U  | 0.10             | U         | 0.10             | U          |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 10             | U        | 0.10             | U        | 0.10             | U        | 1.4              | U | 1.4              | U  | 1.4              | U  | 0.10             | U         | 0.10             | U          |
| Ethylbenzene                                                                   | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.6              | U | 1.6              | U  | 1.6              | U  | 0.10             | U         | 0.10             | U          |
| Methylene chloride                                                             | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.3              | U | 1.3              | U  | 1.3              | U  | <b>0.28</b>      | <b>JB</b> | <b>0.34</b>      | <b>JB</b>  |
| Styrene                                                                        | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.7              | U | 1.7              | U  | 1.7              | U  | 0.10             | U         | 0.10             | U          |
| Tetrachloroethene                                                              | 5                                             | <b>87</b>      |          | <b>1.4</b>       | <b>J</b> | 0.69             | U        | 2.1              | U | 2.1              | U  | 2.1              | U  | <b>0.86</b>      | <b>J</b>  | <b>0.55</b>      | <b>J</b>   |
| Toluene                                                                        | 5                                             | 10             | U        | 0.10             | U        | <b>1.40</b>      | <b>J</b> | 1.6              | U | 1.6              | U  | 1.6              | U  | 0.10             | U         | 0.10             | U          |
| trans-1,2-Dichloroethene                                                       | 5                                             | 10             | U        | 0.10             | U        | 0.10             | U        | 1.9              | U | 1.9              | U  | 1.9              | U  | 0.10             | U         | 0.10             | U          |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 10             | U        | 0.10             | U        | 0.10             | U        | 1.6              | U | 1.6              | U  | 1.6              | U  | 0.10             | U         | 0.10             | U          |
| Trichloroethene                                                                | 5                                             | <b>2</b>       | <b>J</b> | <b>1.1</b>       | <b>J</b> | <b>0.84</b>      | <b>J</b> | 1.9              | U | 1.9              | U  | 1.9              | U  | <b>1.3</b>       | <b>J</b>  | <b>1.3</b>       | <b>J</b>   |
| Vinyl chloride                                                                 | 2                                             | 10             | U        | 0.10             | U        | 0.10             | UJ       | 2.3              | U | 2.3              | U  | 2.3              | U  | 0.10             | U*        | 0.10             | U          |
| m+p Xylene                                                                     | 5                                             | NA             |          | NA               |          | NA               |          | NA               |   | NA               |    | NA               |    | NA               |           | NA               |            |
| o-Xylene                                                                       | 5                                             | NA             |          | NA               |          | NA               |          | NA               |   | NA               |    | NA               |    | NA               |           | NA               |            |
| Total Xylenes                                                                  | 5                                             | 0.82           | U        | 0.10             | U        | 0.10             | U        | 0.82             | U | 0.82             | U  | 0.10             | U  | 0.10             | U         | 0.10             | U          |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2008             |    | 2007             |   | 2018             |   | 2016             |    | 2015             |   | 2014             |   | 2013             |   |                     |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|------------------|---|------------------|---|------------------|----|------------------|---|------------------|---|------------------|---|---------------------|---|
|                                                                                |                                               | FSMW-10B         |    | FSMW-10B         |   | FSMW-11          |   | FSMW-11          |    | FSMW-11          |   | FSMW-11          |   | FSMW-11          |   | FSMW-11 - Duplicate |   |
|                                                                                |                                               | Sep-08           |    | Aug-07           |   | Mar-18           |   | Dec-16           |    | Oct-15           |   | Sep-14           |   | Oct-13           |   | Oct-13              |   |
|                                                                                |                                               | 137-147 feet bgs |    | 137-147 feet bgs |   | 139-149 feet bgs |   | 139-149 feet bgs |    | 139-149 feet bgs |   | 139-149 feet bgs |   | 139-149 feet bgs |   | 139-149 feet bgs    |   |
|                                                                                |                                               | (µg/L)           |    | (µg/L)           |   | (µg/L)           |   | (µg/L)           |    | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)              |   |
| Analyte                                                                        |                                               |                  |    |                  |   |                  |   |                  |    |                  |   |                  |   |                  |   |                     |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 2.1              | U | 2.1              | U | 2.1              | U | 2.1                 | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | UJ | 1.5              | U | 1.5              | U | 1.5              | U | 1.5                 | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.9              | U | 1.9              | U | 1.9              | U | 1.9                 | U |
| 1,1-Dichloroethane                                                             | 5                                             | 0.73             | J  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.7              | U | 1.7              | U | 1.7              | U | 1.7                 | U |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 2.5              | U | 2.5              | U | 2.5              | U | 2.5                 | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 0.83             | U | 0.83             | U | 0.83             | U | 0.83                | U |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.7              | U | 1.7              | U | 1.7              | U | 1.7                 | U |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | UJ | 1.5              | U | 1.5              | U | 1.5              | U | 1.5                 | U |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.8              | U | 1.8              | U | 1.8              | U | 1.8                 | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.7              | U | 1.7              | U | 1.7              | U | 1.7                 | U |
| Acetone                                                                        | 50                                            | 0.10             | U* | 0.10             | U | 0.10             | U | 0.10             | UJ | 1.9              | U | 1.9              | U | 1.9              | U | 1.9                 | U |
| Benzene                                                                        | 1                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.6              | U | 1.6              | U | 1.6              | U | 1.6                 | U |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.5              | U | 1.5              | U | 1.5              | U | 1.5                 | U |
| Bromoform                                                                      | 50                                            | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 5.0              | U | 5.0              | U | 5.0              | U | 5.0                 | U |
| Bromomethane                                                                   | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 4.3              | U | 4.3              | U | 4.3              | U | 4.3                 | U |
| Carbon disulfide                                                               | 60                                            | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 2.1              | U | 2.1              | U | 2.1              | U | 2.1                 | U |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 2.0              | U | 2.0              | U | 2.0              | U | 2.0                 | U |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.6              | U | 1.6              | U | 1.6              | U | 1.6                 | U |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.7              | U | 1.7              | U | 1.7              | U | 1.7                 | U |
| Chloroethane                                                                   | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 2.5              | U | 2.5              | U | 2.5              | U | 2.5                 | U |
| Chloroform                                                                     | 7                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.9              | U | 1.9              | U | 1.9              | U | 1.9                 | U |
| Chloromethane                                                                  | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | UJ | 2.3              | U | 2.3              | U | 2.3              | U | 2.3                 | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.8              | U | 1.8              | U | 1.8              | U | 1.8                 | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.4              | U | 1.4              | U | 1.4              | U | 1.4                 | U |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.6              | U | 1.6              | U | 1.6              | U | 1.6                 | U |
| Methylene chloride                                                             | 5                                             | 0.47             | JB | 0.10             | U | 0.10             | U | 0.10             | U  | 1.3              | U | 1.3              | U | 1.3              | U | 1.3                 | U |
| Styrene                                                                        | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.7              | U | 1.7              | U | 1.7              | U | 1.7                 | U |
| Tetrachloroethene                                                              | 5                                             | 0.10             | U  | 0.34             | J | 0.65             | J | 1.00             | J  | 2.1              | U | 2.1              | U | 2.5              | J | 2.5                 | J |
| Toluene                                                                        | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.33             | J  | 1.6              | U | 1.6              | U | 1.6              | U | 1.6                 | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.9              | U | 1.9              | U | 1.9              | U | 1.9                 | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 1.6              | U | 1.6              | U | 1.6              | U | 1.6                 | U |
| Trichloroethene                                                                | 5                                             | 1.3              | J  | 1.6              | J | 0.53             | J | 0.56             | J  | 1.9              | U | 1.9              | U | 4.8              | J | 4.9                 | J |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U  | 0.10             | U | 0.10             | U | 0.10             | U  | 2.3              | U | 2.3              | U | 2.3              | U | 2.3                 | U |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA               |   | NA               |   | NA               |    | NA               |   | NA               |   | NA               |   | NA                  |   |
| o-Xylene                                                                       | 5                                             | NA               |    | NA               |   | NA               |   | NA               |    | NA               |   | NA               |   | NA               |   | NA                  |   |
| Total Xylenes                                                                  | 5                                             | 0.10             | U  | 0.82             | U | 0.10             | U | 0.10             | U  | 0.82             | U | 0.82             | U | 0.82             | U | 0.10                | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2010             |           | 2009             |           | 2008             |          | 2007             |          | 2006             |          | 2018             |          | 2016             |          | 2015             |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|-----------|------------------|-----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|------------------|----------|
|                                                                                |                                               | FSMW-11          |           | FSMW-11          |           | FSMW-11          |          | FSMW-11          |          | FSMW-11          |          | FSMW-12          |          | FSMW-12          |          | FSMW-12          |          |
|                                                                                |                                               | Sep-10           |           | Sep-09           |           | Sep-08           |          | Aug-07           |          | Aug-06           |          | Mar-18           |          | Dec-16           |          | Oct-15           |          |
|                                                                                |                                               | 139-149 feet bgs |           | 139-149 feet bgs |           | 139-149 feet bgs |          | 139-149 feet bgs |          | 139-149 feet bgs |          | 139-149 feet bgs |          | 139-149 feet bgs |          | 139-149 feet bgs |          |
|                                                                                |                                               | (µg/L)           |           | (µg/L)           |           | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          |
| Analyte                                                                        |                                               |                  |           |                  |           |                  |          |                  |          |                  |          |                  |          |                  |          |                  |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 2.1              | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.5              | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.9              | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.7              | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 2.5              | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | UJ       | 0.10             | U        | 0.10             | U        | 0.83             | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.7              | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | UJ       | 0.10             | U        | 0.10             | UJ       | 1.5              | U        |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.8              | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.7              | U        |
| Acetone                                                                        | 50                                            | <b>1.6</b>       | <b>J</b>  | 1.5              | U         | 0.10             | U        | 0.10             | UJ       | 10               | U        | 0.10             | U        | 0.10             | UJ       | 1.9              | U        |
| Benzene                                                                        | 1                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.6              | U        |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.5              | U        |
| Bromoform                                                                      | 50                                            | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 5.0              | U        |
| Bromomethane                                                                   | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 4.3              | U        |
| Carbon disulfide                                                               | 60                                            | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 2.1              | U        |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U         | <b>0.13</b>      | <b>J</b>  | 0.10             | U        | <b>1.3</b>       | <b>J</b> | <b>0.6</b>       | <b>J</b> | 0.10             | U        | 0.10             | U        | 2.0              | U        |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.6              | U        |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.7              | U        |
| Chloroethane                                                                   | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 2.5              | U        |
| Chloroform                                                                     | 7                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.9              | U        |
| Chloromethane                                                                  | 5                                             | 0.10             | U*        | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | UJ       | 2.3              | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>0.22</b>      | <b>J</b>  | <b>0.34</b>      | <b>J</b>  | <b>0.59</b>      | <b>J</b> | <b>0.95</b>      | <b>J</b> | 10               | U        | 0.10             | U        | 0.10             | U        | 1.8              | U        |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.4              | U        |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.6              | U        |
| Methylene chloride                                                             | 5                                             | <b>0.27</b>      | <b>JB</b> | <b>0.41</b>      | <b>JB</b> | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.3              | U        |
| Styrene                                                                        | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.7              | U        |
| Tetrachloroethene                                                              | 5                                             | <b>2.3</b>       | <b>J</b>  | <b>3.3</b>       | <b>J</b>  | <b>3.0</b>       | <b>J</b> | <b>6.9</b>       | <b>J</b> | <b>5.0</b>       | <b>J</b> | <b>1.50</b>      | <b>J</b> | <b>4.8</b>       | <b>J</b> | <b>2.1</b>       | <b>J</b> |
| Toluene                                                                        | 5                                             | 0.10             | U         | <b>0.29</b>      | <b>J</b>  | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.6              | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.9              | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U         | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 1.6              | U        |
| Trichloroethene                                                                | 5                                             | <b>3.0</b>       | <b>J</b>  | <b>4</b>         | <b>J</b>  | <b>13</b>        |          | <b>22</b>        |          | <b>21</b>        |          | <b>6.9</b>       | <b>J</b> | <b>5.7</b>       | <b>J</b> | <b>6.6</b>       | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U*        | 0.10             | U         | 0.10             | U        | 0.10             | U        | 10               | U        | 0.10             | U        | 0.10             | U        | 2.3              | U        |
| m+p Xylene                                                                     | 5                                             | NA               |           | NA               |           | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          |
| o-Xylene                                                                       | 5                                             | NA               |           | NA               |           | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          | NA               |          |
| Total Xylenes                                                                  | 5                                             | 0.10             | U         | 0.10             | U         | 0.10             | U        | 10               | U        | 0.82             | U        | 0.10             | U        | 0.10             | U        | 0.82             | U        |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2015                |   | 2014             |    | 2013             |   | 2010             |     | 2009             |    | 2008             |    |                     |    | 2007             |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|---------------------|---|------------------|----|------------------|---|------------------|-----|------------------|----|------------------|----|---------------------|----|------------------|---|
|                                                                                |                                               | FSMW-12 - Duplicate |   | FSMW-12          |    | FSMW-12          |   | FSMW-12          |     | FSMW-12          |    | FSMW-12          |    | FSMW-12 - Duplicate |    | FSMW-12          |   |
|                                                                                |                                               | Oct-15              |   | Oct-14           |    | Oct-13           |   | Sep-10           |     | Sep-09           |    | Sep-08           |    | Sep-08              |    | Aug-07           |   |
|                                                                                |                                               | 139-149 feet bgs    |   | 139-149 feet bgs |    | 139-149 feet bgs |   | 139-149 feet bgs |     | 139-149 feet bgs |    | 139-149 feet bgs |    | 139-149 feet bgs    |    | 139-149 feet bgs |   |
|                                                                                |                                               | (µg/L)              |   | (µg/L)           |    | (µg/L)           |   | (µg/L)           |     | (µg/L)           |    | (µg/L)           |    | (µg/L)              |    | (µg/L)           |   |
| Analyte                                                                        |                                               |                     |   |                  |    |                  |   |                  |     |                  |    |                  |    |                     |    |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1                 | U | 2.1              | U  | 2.1              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5                 | U | 1.5              | U  | 1.5              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9                 | U | 1.9              | U  | 1.9              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7                 | U | 1.7              | U  | 1.7              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5                 | U | 2.5              | U  | 2.5              | U | 0.10             | U   | 0.11             | J  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83                | U | 0.83             | U  | 0.83             | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7                 | U | 1.7              | U  | 1.7              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5                 | U | 1.5              | U  | 1.5              | U | 0.10             | U*  | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| 2-Hexanone                                                                     | 50                                            | 1.8                 | U | 1.8              | U  | 1.8              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7                 | U | 1.7              | U  | 1.7              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Acetone                                                                        | 50                                            | 1.9                 | U | 1.9              | U  | 2.8              | J | 1.1              | JB* | 0.75             | J  | 0.10             | U* | 0.10                | U* | 0.10             | U |
| Benzene                                                                        | 1                                             | 1.6                 | U | 1.6              | U  | 1.6              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Bromodichloromethane                                                           | 50                                            | 1.5                 | U | 1.5              | U  | 1.5              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Bromoform                                                                      | 50                                            | 5.0                 | U | 5.0              | UJ | 5.0              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Bromomethane                                                                   | 5                                             | 4.3                 | U | 4.3              | U  | 4.3              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Carbon disulfide                                                               | 60                                            | 2.1                 | U | 2.1              | U  | 2.1              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Carbon tetrachloride                                                           | 5                                             | 2.0                 | U | 2.0              | U  | 2.0              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Chlorobenzene                                                                  | 5                                             | 1.6                 | U | 1.6              | U  | 1.6              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Chlorobromomethane                                                             | 5                                             | 1.7                 | U | 1.7              | U  | 1.7              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Chloroethane                                                                   | 5                                             | 2.5                 | U | 2.5              | U  | 2.5              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Chloroform                                                                     | 7                                             | 1.9                 | U | 1.9              | U  | 1.9              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Chloromethane                                                                  | 5                                             | 2.3                 | U | 2.3              | U  | 2.3              | U | 0.22             | J*  | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 1.8                 | U | 1.8              | U  | 1.8              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4                 | U | 1.4              | U  | 1.4              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Ethylbenzene                                                                   | 5                                             | 1.6                 | U | 1.6              | U  | 1.6              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Methylene chloride                                                             | 5                                             | 1.3                 | U | 1.3              | U  | 1.3              | U | 0.30             | JB  | 0.49             | JB | 0.54             | JB | 0.10                | U  | 0.10             | U |
| Styrene                                                                        | 5                                             | 1.7                 | U | 1.7              | U  | 1.7              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Tetrachloroethene                                                              | 5                                             | 2.3                 | J | 2.1              | U  | 2.1              | J | 1.8              | JB  | 0.65             | J  | 0.10             | U  | 0.10                | U  | 2.3              | J |
| Toluene                                                                        | 5                                             | 1.6                 | U | 1.6              | U  | 1.6              | U | 0.10             | U   | 0.25             | J  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9                 | U | 1.9              | U  | 1.9              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6                 | U | 1.6              | U  | 1.6              | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| Trichloroethene                                                                | 5                                             | 6.4                 | J | 3.7              | J  | 1.9              | J | 2.2              | J   | 2.4              | J  | 0.10             | U* | 0.10                | U* | 0.26             | J |
| Vinyl chloride                                                                 | 2                                             | 2.3                 | U | 2.3              | U  | 2.3              | U | 0.10             | U*  | 0.10             | U  | 0.10             | U  | 0.10                | U  | 0.10             | U |
| m+p Xylene                                                                     | 5                                             | NA                  |   | NA               |    | NA               |   | NA               |     | NA               |    | NA               |    | NA                  |    | NA               |   |
| o-Xylene                                                                       | 5                                             | NA                  |   | NA               |    | NA               |   | NA               |     | NA               |    | NA               |    | NA                  |    | NA               |   |
| Total Xylenes                                                                  | 5                                             | 0.82                | U | 0.82             | U  | 0.10             | U | 0.10             | U   | 0.10             | U  | 0.10             | U  | 0.10                | U  | 10               | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2006             |    | 2018           |   |                |    |                      |   |                |   | 2017           |   |                      |   |                |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|----------------|---|----------------|----|----------------------|---|----------------|---|----------------|---|----------------------|---|----------------|---|
|                                                                                |                                               | FSMW-12          |    | FSMW-13A       |   | FSMW-13A       |    | FSMW-13A - Duplicate |   | FSMW-13A       |   | FSMW-13A       |   | FSMW-13A - Duplicate |   | FSMW-13A       |   |
|                                                                                |                                               | Aug-06           |    | Sep-18         |   | Jun-18         |    | Jun-18               |   | Mar-18         |   | Dec-17         |   | Dec-17               |   | Sep-17         |   |
|                                                                                |                                               | 139-149 feet bgs |    | 69-79 feet bgs |   | 69-79 feet bgs |    | 69-79 feet bgs       |   | 69-79 feet bgs |   | 69-79 feet bgs |   | 69-79 feet bgs       |   | 69-79 feet bgs |   |
|                                                                                |                                               | (µg/L)           |    | (µg/L)         |   | (µg/L)         |    | (µg/L)               |   | (µg/L)         |   | (µg/L)         |   | (µg/L)               |   | (µg/L)         |   |
| Analyte                                                                        |                                               |                  |    |                |   |                |    |                      |   |                |   |                |   |                      |   |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 10               | U  | 0.24           | U | 0.24           | U  | 0.24                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 10               | U  | 0.37           | U | 0.37           | U  | 0.37                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 10               | U  | 0.43           | U | 0.43           | U  | 0.43                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| 1,1-Dichloroethane                                                             | 5                                             | 10               | U  | 0.26           | U | 0.26           | U  | 0.26                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| 1,1-Dichloroethene                                                             | 5                                             | 10               | U  | 0.12           | U | 0.12           | U  | 0.12                 | U | 0.20           | U | 0.20           | J | 0.20                 | U | 0.15           | J |
| 1,2-Dichloroethane                                                             | 0.6                                           | 10               | UJ | 0.43           | U | 0.43           | U  | 0.43                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| 1,2-Dichloropropane                                                            | 1                                             | 10               | U  | 1.2            |   | 1.4            | J+ | 1                    |   | 1.2            | J | 1.0            | J | 1.10                 | J | 1.3            | J |
| 2-Butanone (MEK)                                                               | 50                                            | 10               | UJ | 1.9            | U | 1.9            | U  | 1.9                  | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| 2-Hexanone                                                                     | 50                                            | 10               | U  | 2.9            | U | 2.9            | U  | 2.9                  | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 10               | U  | 2.7            | U | 2.7            | U  | 2.7                  | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Acetone                                                                        | 50                                            | 10               | U  | 5              | U | 5              | U  | 5                    | U | 2.7            | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Benzene                                                                        | 1                                             | 10               | U  | 0.43           | U | 0.43           | U  | 0.43                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Bromodichloromethane                                                           | 50                                            | 10               | U  | 0.34           | U | 0.34           | U  | 0.34                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Bromoform                                                                      | 50                                            | 10               | U  | 0.54           | U | 0.54           | U  | 0.54                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Bromomethane                                                                   | 5                                             | 10               | U  | 1              | U | 1              | U  | 1                    | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Carbon disulfide                                                               | 60                                            | 10               | U  | 0.16           | U | 0.16           | U  | 0.16                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Carbon tetrachloride                                                           | 5                                             | 10               | U  | 0.21           | U | 0.21           | U  | 0.21                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Chlorobenzene                                                                  | 5                                             | 10               | U  | 0.38           | U | 0.38           | U  | 0.38                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Chlorobromomethane                                                             | 5                                             | 10               | U  | 0.41           | U | 0.41           | U  | 0.41                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Chloroethane                                                                   | 5                                             | 10               | U  | 0.32           | U | 0.32           | U  | 0.32                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Chloroform                                                                     | 7                                             | 10               | U  | 0.33           | U | 0.33           | U  | 0.33                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Chloromethane                                                                  | 5                                             | 10               | U  | 0.14           | U | 0.14           | U  | 0.14                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 10               | U  | 6.5            |   | 6.9            | J+ | 6.3                  |   | 6.6            | J | 8.3            | J | 8.1                  | J | 7.6            | J |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 10               | U  | 0.46           | U | 0.46           | U  | 0.46                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Ethylbenzene                                                                   | 5                                             | 10               | U  | 0.3            | U | 0.3            | U  | 0.3                  | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Methylene chloride                                                             | 5                                             | 10               | U  | 0.32           | U | 0.32           | U  | 0.32                 | U | 0.86           | U | 0.20           | U | 1.20                 | J | 0.10           | U |
| Styrene                                                                        | 5                                             | 10               | U  | 0.42           | U | 0.42           | U  | 0.42                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Tetrachloroethene                                                              | 5                                             | 10               | U  | 190            |   | 200            | J+ | 170                  |   | 170            |   | 190            |   | 190                  |   | 180            |   |
| Toluene                                                                        | 5                                             | 10               | U  | 0.38           | U | 0.38           | U  | 0.38                 | U | 0.20           | U | 0.20           | U | 0.20                 | J | 0.10           | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 10               | U  | 0.24           | U | 0.24           | U  | 0.24                 | U | 0.20           | U | 0.20           | J | 0.20                 | U | 0.17           | J |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 10               | U  | 0.49           | U | 0.49           | U  | 0.49                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| Trichloroethene                                                                | 5                                             | 10               | U  | 5.6            |   | 7.9            | J+ | 6.5                  |   | 6.9            | J | 7.2            | J | 6.3                  | J | 6.4            | J |
| Vinyl chloride                                                                 | 2                                             | 10               | U  | 0.17           | U | 0.17           | U  | 0.17                 | U | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA             |   | 0.3            | U  | 0.3                  | U | NA             |   | NA             |   | NA                   |   | NA             |   |
| o-Xylene                                                                       | 5                                             | NA               |    | NA             |   | 0.36           | U  | 0.36                 | U | NA             |   | NA             |   | NA                   |   | NA             |   |
| Total Xylenes                                                                  | 5                                             | 0.82             | U  | 0.65           | U | NA             |    | NA                   |   | 0.20           | U | 0.20           | U | 0.20                 | U | 0.10           | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2017           |    |                |    | 2016           |    |                |    |                      |    |                |    |                |    |                      |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|----------------|----|----------------|----|----------------|----|----------------------|----|----------------|----|----------------|----|----------------------|----|
|                                                                                |                                               | FSMW-13A       |    | FSMW-13A       |    | FSMW-13A       |    | FSMW-13A       |    | FSMW-13A - Duplicate |    | FSMW-13A       |    | FSMW-13A       |    | FSMW-13A - Duplicate |    |
|                                                                                |                                               | Jun-17         |    | Mar-17         |    | Dec-16         |    | Sep-16         |    | Sep-16               |    | Jul-16         |    | Apr-16         |    | Apr-16               |    |
|                                                                                |                                               | 69-79 feet bgs |    | 69-79 feet bgs |    | 69-79 feet bgs |    | 69-79 feet bgs |    | 69-79 feet bgs       |    | 69-79 feet bgs |    | 69-79 feet bgs |    | 69-79 feet bgs       |    |
|                                                                                |                                               | (µg/L)         |    | (µg/L)         |    | (µg/L)         |    | (µg/L)         |    | (µg/L)               |    | (µg/L)         |    | (µg/L)         |    | (µg/L)               |    |
| Analyte                                                                        |                                               |                |    |                |    |                |    |                |    |                      |    |                |    |                |    |                      |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | UJ | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10           | UJ | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.21           | J  | 0.18                 | J  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.1            | J  | 0.10           | U  | 1.3            | J  | 1.0            | J  | 1.0                  | J  | 0.96           | J  | 0.37           | J  | 0.47                 | J  |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10           | U  | 0.10           | U  | 0.10           | UJ | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| 2-Hexanone                                                                     | 50                                            | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Acetone                                                                        | 50                                            | 0.10           | UJ | 0.10           | UJ | 0.10           | UJ | 0.10           | UJ | 0.10                 | UJ | 0.10           | UJ | 0.10           | U  | 0.10                 | U  |
| Benzene                                                                        | 1                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Bromodichloromethane                                                           | 50                                            | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Bromoform                                                                      | 50                                            | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Bromomethane                                                                   | 5                                             | 0.10           | UJ | 0.10           | U  | 0.10           | U  | 0.10           | UJ | 0.10                 | UJ | 0.10           | U  | 0.10           | UJ | 0.10                 | UJ |
| Carbon disulfide                                                               | 60                                            | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Carbon tetrachloride                                                           | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Chlorobenzene                                                                  | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Chlorobromomethane                                                             | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Chloroethane                                                                   | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Chloroform                                                                     | 7                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Chloromethane                                                                  | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | UJ | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 6.5            | J  | 6.9            | J  | 5.4            | J  | 6.2            | J  | 6.5                  | J  | 5.4            | J  | 7.1            | J  | 7.2                  | J  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Ethylbenzene                                                                   | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Methylene chloride                                                             | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Styrene                                                                        | 5                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Tetrachloroethene                                                              | 5                                             | 180            |    | 150            |    | 150            |    | 160            |    | 160                  |    | 180            |    | 170            | D  | 180                  | D  |
| Toluene                                                                        | 5                                             | 0.10           | U  | 0.26           | J  | 0.26           | J  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10           | UJ | 0.10           | U  | 0.10           | U  | 0.12           | J  | 0.18                 | J  | 0.10           | U  | 0.18           | J  | 0.16                 | J  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| Trichloroethene                                                                | 5                                             | 6.0            | J  | 5.7            | J  | 5.2            | J  | 6.0            | J  | 6.3                  | J  | 6.0            | J  | 8.4            | J  | 8.7                  | J  |
| Vinyl chloride                                                                 | 2                                             | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA             |    | NA             |    | NA             |    | NA                   |    | NA             |    | NA             |    | NA                   |    |
| o-Xylene                                                                       | 5                                             | NA             |    | NA             |    | NA             |    | NA             |    | NA                   |    | NA             |    | NA             |    | NA                   |    |
| Total Xylenes                                                                  | 5                                             | 0.10           | UJ | 0.10           | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  | 0.10           | U  | 0.10           | U  | 0.10                 | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2015           |   | 2014           |    | 2013           |   | 2012           |    | 2010           |     | 2009           |    | 2008           |    | 2007           |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|---|----------------|----|----------------|---|----------------|----|----------------|-----|----------------|----|----------------|----|----------------|---|
|                                                                                |                                               | FSMW-13A       |   | FSMW-13A       |    | FSMW-13A       |   | FSMW-13A       |    | FSMW-13A       |     | FSMW-13A       |    | FSMW-13A       |    | FSMW-13A       |   |
|                                                                                |                                               | Oct-15         |   | Oct-14         |    | Oct-13         |   | Nov-12         |    | Sep-10         |     | Sep-09         |    | Sep-08         |    | Aug-07         |   |
|                                                                                |                                               | 69-79 feet bgs |   | 69-79 feet bgs |    | 69-79 feet bgs |   | 69-79 feet bgs |    | 69-79 feet bgs |     | 69-79 feet bgs |    | 69-79 feet bgs |    | 69-79 feet bgs |   |
|                                                                                |                                               | (µg/L)         |   | (µg/L)         |    | (µg/L)         |   | (µg/L)         |    | (µg/L)         |     | (µg/L)         |    | (µg/L)         |    | (µg/L)         |   |
| Analyte                                                                        |                                               |                |   |                |    |                |   |                |    |                |     |                |    |                |    |                |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 4.2            | U | 2.1            | U  | 2.1            | U | 2.1            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 3.0            | U | 1.5            | U  | 1.5            | U | 1.5            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 3.8            | U | 1.9            | U  | 1.9            | U | 1.9            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| 1,1-Dichloroethane                                                             | 5                                             | 3.4            | U | 1.7            | U  | 1.7            | U | 1.7            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| 1,1-Dichloroethene                                                             | 5                                             | 5.0            | U | 2.5            | U  | 2.5            | U | 2.5            | U  | 0.25           | J   | 0.2            | J  | 0.10           | U  | 0.10           | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 1.7            | U | 0.83           | U  | 0.83           | U | 0.83           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| 1,2-Dichloropropane                                                            | 1                                             | 3.4            | U | 1.7            | U  | 1.7            | U | 1.7            | U  | 0.35           | J   | 0.25           | J  | 0.10           | U  | 0.10           | U |
| 2-Butanone (MEK)                                                               | 50                                            | 3.0            | U | 1.5            | U  | 1.5            | U | 1.5            | U  | 0.10           | U*  | 0.10           | U  | 0.10           | U  | 0.10           | U |
| 2-Hexanone                                                                     | 50                                            | 3.6            | U | 1.8            | U  | 1.8            | U | 1.8            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 3.4            | U | 1.7            | U  | 1.7            | U | 1.7            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Acetone                                                                        | 50                                            | 3.8            | U | 1.9            | U  | 6.5            | U | 1.9            | U  | 0.44           | JB* | 0.10           | U  | 0.10           | U* | 0.10           | U |
| Benzene                                                                        | 1                                             | 3.2            | U | 1.6            | U  | 1.6            | U | 1.6            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Bromodichloromethane                                                           | 50                                            | 3.0            | U | 1.5            | U  | 1.5            | U | 1.5            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Bromoform                                                                      | 50                                            | 10             | U | 5.0            | UJ | 5.0            | U | 5.0            | UJ | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Bromomethane                                                                   | 5                                             | 8.6            | U | 4.3            | U  | 4.3            | U | 4.3            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Carbon disulfide                                                               | 60                                            | 4.2            | U | 2.1            | U  | 2.1            | U | 2.1            | U  | 0.1            | U*  | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Carbon tetrachloride                                                           | 5                                             | 4.0            | U | 2.0            | U  | 2.0            | U | 2.0            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Chlorobenzene                                                                  | 5                                             | 3.2            | U | 1.6            | U  | 1.6            | U | 1.6            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Chlorobromomethane                                                             | 5                                             | 3.4            | U | 1.7            | U  | 1.7            | U | 1.7            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Chloroethane                                                                   | 5                                             | 5.0            | U | 2.5            | U  | 2.5            | U | 2.5            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Chloroform                                                                     | 7                                             | 3.8            | U | 1.9            | U  | 1.9            | U | 1.9            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Chloromethane                                                                  | 5                                             | 4.6            | U | 2.3            | U  | 2.3            | U | 2.3            | U  | 0.10           | U*  | 0.10           | U  | 0.10           | U  | 0.10           | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 9.4            | J | 12             |    | 5.3            | J | 3.1            | J  | 5.7            | J   | 4.3            | J  | 8.2            | J  | 20             |   |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 2.8            | U | 1.4            | U  | 1.4            | U | 1.4            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Ethylbenzene                                                                   | 5                                             | 3.2            | U | 1.6            | U  | 1.6            | U | 1.6            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Methylene chloride                                                             | 5                                             | 2.6            | U | 1.3            | U  | 1.3            | U | 1.3            | U  | 0.23           | JB  | 0.39           | JB | 0.10           | U  | 0.10           | U |
| Styrene                                                                        | 5                                             | 3.4            | U | 1.7            | U  | 1.7            | U | 1.7            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Tetrachloroethene                                                              | 5                                             | 260            |   | 350            | D  | 140            |   | 19             |    | 240            |     | 200            |    | 95             |    | 570            |   |
| Toluene                                                                        | 5                                             | 3.2            | U | 1.6            | U  | 1.6            | U | 1.6            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 3.8            | U | 1.9            | U  | 1.9            | U | 1.9            | U  | 0.12           | J   | 0.16           | J  | 0.10           | U  | 0.10           | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 3.2            | U | 1.6            | U  | 1.6            | U | 1.6            | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 0.10           | U |
| Trichloroethene                                                                | 5                                             | 11             | J | 14             |    | 5.8            | J | 1.9            | U  | 6.5            | J   | 4.7            | J  | 8.2            | J  | 20             |   |
| Vinyl chloride                                                                 | 2                                             | 4.6            | U | 2.3            | U  | 2.3            | U | 2.3            | U  | 0.10           | U*  | 0.10           | U  | 0.10           | U  | 0.10           | U |
| m+p Xylene                                                                     | 5                                             | NA             |   | NA             |    | NA             |   | NA             |    | NA             |     | NA             |    | NA             |    | NA             |   |
| o-Xylene                                                                       | 5                                             | NA             |   | NA             |    | NA             |   | NA             |    | NA             |     | NA             |    | NA             |    | NA             |   |
| Total Xylenes                                                                  | 5                                             | 1.6            | U | 0.82           | U  | 0.82           | U | 0.10           | U  | 0.10           | U   | 0.10           | U  | 0.10           | U  | 40             | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2006           |    | 2018             |   | 2016             |    | 2015             |   |                      |   | 2014             |    | 2013             |   | 2012             |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------|----|------------------|---|------------------|----|------------------|---|----------------------|---|------------------|----|------------------|---|------------------|----|
|                                                                                |                                               | FSMW-13A       |    | FSMW-13B         |   | FSMW-13B         |    | FSMW-13B         |   | FSMW-13B - Duplicate |   | FSMW-13B         |    | FSMW-13B         |   | FSMW-13B         |    |
|                                                                                |                                               | Aug-06         |    | Mar-18           |   | Dec-16           |    | Oct-15           |   | Oct-15               |   | Oct-14           |    | Oct-13           |   | Nov-12           |    |
|                                                                                |                                               | 69-79 feet bgs |    | 119-129 feet bgs |   | 119-129 feet bgs |    | 119-129 feet bgs |   | 119-129 feet bgs     |   | 119-129 feet bgs |    | 119-129 feet bgs |   | 119-129 feet bgs |    |
|                                                                                |                                               | (µg/L)         |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |   | (µg/L)               |   | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    |
| Analyte                                                                        |                                               |                |    |                  |   |                  |    |                  |   |                      |   |                  |    |                  |   |                  |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 40             | U  | 0.50             | U | 0.50             | U  | 4.2              | U | 4.2                  | U | 4.2              | U  | 11               | U | 2.1              | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 40             | U  | 0.50             | U | 0.50             | UJ | 3.0              | U | 3.0                  | U | 3.0              | U  | 7.5              | U | 1.5              | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.8              | U | 3.8                  | U | 3.8              | U  | 9.5              | U | 1.9              | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.4              | U | 3.4                  | U | 3.4              | U  | 8.5              | U | 1.7              | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 40             | U  | 0.50             | U | 0.50             | U  | 5.0              | U | 5.0                  | U | 5.0              | U  | 13               | U | 2.5              | UJ |
| 1,2-Dichloroethane                                                             | 0.6                                           | 40             | U  | 0.50             | U | 0.50             | U  | 1.7              | U | 1.7                  | U | 1.7              | U  | 4.2              | U | 0.83             | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.4              | U | 3.4                  | U | 3.4              | U  | 8.5              | U | 1.7              | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 40             | U  | 0.50             | U | 0.50             | UJ | 3.0              | U | 3.0                  | U | 3.0              | U  | 7.5              | U | 1.5              | U  |
| 2-Hexanone                                                                     | 50                                            | 40             | U  | 0.50             | U | 0.50             | U  | 3.6              | U | 3.6                  | U | 3.6              | U  | 9.0              | U | 1.8              | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 40             | U  | 0.50             | U | 0.50             | U  | 3.4              | U | 3.4                  | U | 3.4              | U  | 8.5              | U | 1.7              | U  |
| Acetone                                                                        | 50                                            | 40             | U  | 6.4              | U | 0.50             | UJ | 3.8              | U | 3.8                  | U | 3.8              | U  | 9.5              | U | 1.9              | U  |
| Benzene                                                                        | 1                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.2              | U | 3.2                  | U | 3.2              | U  | 8.0              | U | 1.6              | U  |
| Bromodichloromethane                                                           | 50                                            | 40             | U  | 0.50             | U | 0.50             | U  | 3.0              | U | 3.0                  | U | 3.0              | U  | 7.5              | U | 1.5              | U  |
| Bromoform                                                                      | 50                                            | 40             | U  | 0.50             | U | 0.50             | U  | 10               | U | 10                   | U | 10               | UJ | 25               | U | 5.0              | UJ |
| Bromomethane                                                                   | 5                                             | 40             | UJ | 0.50             | U | 0.50             | U  | 8.6              | U | 8.6                  | U | 8.6              | U  | 22               | U | 4.3              | UJ |
| Carbon disulfide                                                               | 60                                            | 40             | U  | 0.50             | U | 0.50             | U  | 4.2              | U | 4.2                  | U | 4.2              | U  | 11               | U | 2.1              | U  |
| Carbon tetrachloride                                                           | 5                                             | 40             | U  | 0.50             | U | 0.50             | U  | 4.0              | U | 4.0                  | U | 4.0              | U  | 10               | U | 2.0              | U  |
| Chlorobenzene                                                                  | 5                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.2              | U | 3.2                  | U | 3.2              | U  | 8.0              | U | 1.6              | U  |
| Chlorobromomethane                                                             | 5                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.4              | U | 3.4                  | U | 3.4              | U  | 8.5              | U | 1.7              | U  |
| Chloroethane                                                                   | 5                                             | 40             | UJ | 0.50             | U | 0.50             | U  | 5.0              | U | 5.0                  | U | 5.0              | U  | 13               | U | 2.5              | U  |
| Chloroform                                                                     | 7                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.8              | U | 3.8                  | U | 3.8              | U  | 9.5              | U | 1.9              | U  |
| Chloromethane                                                                  | 5                                             | 40             | U  | 0.50             | U | 0.50             | UJ | 4.6              | U | 4.6                  | U | 4.6              | U  | 12               | U | 2.3              | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 12             | J  | 11               | J | 7.1              | J  | 3.6              | U | 3.6                  | U | 5.5              | J  | 17               | J | 9.4              | J  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 40             | U  | 0.50             | U | 0.50             | U  | 2.8              | U | 2.8                  | U | 2.8              | U  | 7.0              | U | 1.4              | U  |
| Ethylbenzene                                                                   | 5                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.2              | U | 3.2                  | U | 3.2              | U  | 8.0              | U | 1.6              | U  |
| Methylene chloride                                                             | 5                                             | 40             | U  | 2.4              | U | 0.50             | U  | 2.6              | U | 2.6                  | U | 2.6              | U  | 6.5              | U | 1.3              | U  |
| Styrene                                                                        | 5                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.4              | U | 3.4                  | U | 3.4              | U  | 8.5              | U | 1.7              | U  |
| Tetrachloroethene                                                              | 5                                             | 360            |    | 450              |   | 400              |    | 180              |   | 200                  |   | 330              |    | 770              |   | 620              | D  |
| Toluene                                                                        | 5                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.2              | U | 3.2                  | U | 3.2              | U  | 8.0              | U | 1.6              | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 40             | U  | 0.50             | U | 0.50             | U  | 3.8              | U | 3.8                  | U | 3.8              | U  | 9.5              | U | 1.9              | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 40             | U  | 0.50             | U | 0.50             | U  | 3.2              | U | 3.2                  | U | 3.2              | U  | 8.0              | U | 1.6              | U  |
| Trichloroethene                                                                | 5                                             | 13             | J  | 24               | J | 16               | J  | 12               | J | 12                   | J | 31               |    | 110              |   | 60               |    |
| Vinyl chloride                                                                 | 2                                             | 40             | U  | 0.50             | U | 0.50             | U  | 4.6              | U | 4.6                  | U | 4.6              | U  | 12               | U | 2.3              | U  |
| m+p Xylene                                                                     | 5                                             | NA             |    | NA               |   | NA               |    | NA               |   | NA                   |   | NA               |    | NA               |   | NA               |    |
| o-Xylene                                                                       | 5                                             | NA             |    | NA               |   | NA               |    | NA               |   | NA                   |   | NA               |    | NA               |   | NA               |    |
| Total Xylenes                                                                  | 5                                             | 1.6            | U  | 0.50             | U | 0.50             | U  | 1.6              | U | 1.6                  | U | 4.1              | U  | 0.82             | U | 0.10             | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2010             |           |                      |            | 2009             |           |                      |           | 2008             |           |                      |    | 2007             |          | 2006             |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|-----------|----------------------|------------|------------------|-----------|----------------------|-----------|------------------|-----------|----------------------|----|------------------|----------|------------------|----------|
|                                                                                |                                               | FSMW-13B         |           | FSMW-13B - Duplicate |            | FSMW-13B         |           | FSMW-13B - Duplicate |           | FSMW-13B         |           | FSMW-13B - Duplicate |    | FSMW-13B         |          | FSMW-13B         |          |
|                                                                                |                                               | Sep-10           |           | Sep-10               |            | Sep-09           |           | Sep-09               |           | Sep-08           |           | Sep-08               |    | Aug-07           |          | Aug-06           |          |
|                                                                                |                                               | 119-129 feet bgs |           | 119-129 feet bgs     |            | 119-129 feet bgs |           | 119-129 feet bgs     |           | 119-129 feet bgs |           | 119-129 feet bgs     |    | 119-129 feet bgs |          | 119-129 feet bgs |          |
|                                                                                |                                               | (µg/L)           |           | (µg/L)               |            | (µg/L)           |           | (µg/L)               |           | (µg/L)           |           | (µg/L)               |    | (µg/L)           |          | (µg/L)           |          |
| Analyte                                                                        |                                               |                  |           |                      |            |                  |           |                      |           |                  |           |                      |    |                  |          |                  |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U         | 0.10                 | U*         | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Acetone                                                                        | 50                                            | <b>1.2</b>       | <b>J</b>  | <b>0.93</b>          | <b>JB*</b> | <b>15</b>        | <b>J</b>  | <b>18</b>            | <b>J</b>  | 0.10             | U*        | 0.10                 | U* | 0.10             | U        | 200              | U        |
| Benzene                                                                        | 1                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Bromoform                                                                      | 50                                            | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Bromomethane                                                                   | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | UJ       |
| Carbon disulfide                                                               | 60                                            | 0.10             | U         | 0.10                 | U*         | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Carbon tetrachloride                                                           | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | <b>0.45</b>      | <b>J</b> | 200              | U        |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Chloroethane                                                                   | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | UJ       |
| Chloroform                                                                     | 7                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Chloromethane                                                                  | 5                                             | <b>0.20</b>      | <b>J*</b> | 0.10                 | U*         | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>1.7</b>       | <b>J</b>  | <b>2.0</b>           | <b>J</b>   | <b>21</b>        | <b>J</b>  | <b>22</b>            | <b>J</b>  | <b>19</b>        |           | <b>20</b>            |    | <b>23</b>        |          | <b>23</b>        | <b>J</b> |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | <b>0.10</b>      | <b>J</b> | 200              | U        |
| Methylene chloride                                                             | 5                                             | <b>0.25</b>      | <b>JB</b> | <b>0.30</b>          | <b>JB</b>  | <b>49</b>        | <b>JB</b> | <b>48</b>            | <b>JB</b> | <b>0.20</b>      | <b>JB</b> | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Styrene                                                                        | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Tetrachloroethene                                                              | 5                                             | <b>450</b>       | <b>B</b>  | <b>460</b>           |            | <b>3,700</b>     |           | <b>3,700</b>         |           | <b>1,900</b>     |           | <b>2,000</b>         |    | <b>2,700</b>     |          | <b>2,900</b>     |          |
| Toluene                                                                        | 5                                             | 0.11             | J         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U         | 0.10                 | U          | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| Trichloroethene                                                                | 5                                             | <b>8.8</b>       | <b>J</b>  | <b>9.0</b>           | <b>J</b>   | <b>71</b>        | <b>J</b>  | <b>72</b>            | <b>J</b>  | <b>50</b>        |           | <b>57</b>            |    | <b>65</b>        |          | <b>69</b>        | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U*        | 0.10                 | U*         | 2.5              | U         | 2.5                  | U         | 0.10             | U         | 0.10                 | U  | 0.10             | U        | 200              | U        |
| m+p Xylene                                                                     | 5                                             | NA               |           | NA                   |            | NA               |           | NA                   |           | NA               |           | NA                   |    | NA               |          | NA               |          |
| o-Xylene                                                                       | 5                                             | NA               |           | NA                   |            | NA               |           | NA                   |           | NA               |           | NA                   |    | NA               |          | NA               |          |
| Total Xylenes                                                                  | 5                                             | 0.10             | U         | 2.5                  | U          | 2.5              | U         | 0.10                 | U         | 0.10             | U         | 0.10                 | U  | 200              | U        | 1.6              | U        |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2018             |   | 2016             |    | 2015             |   | 2014             |    | 2013             |    |                      |   | 2012             |    | 2010             |     |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|----|------------------|---|------------------|----|------------------|----|----------------------|---|------------------|----|------------------|-----|
|                                                                                |                                               | FSMW-13C         |   | FSMW-13C         |    | FSMW-13C         |   | FSMW-13C         |    | FSMW-13C         |    | FSMW-13C - Duplicate |   | FSMW-13C         |    | FSMW-13C         |     |
|                                                                                |                                               | Mar-18           |   | Dec-16           |    | Oct-15           |   | Sep-14           |    | Oct-13           |    | Oct-13               |   | Nov-12           |    | Sep-10           |     |
|                                                                                |                                               | 239-249 feet bgs |   | 239-249 feet bgs |    | 239-249 feet bgs |   | 239-249 feet bgs |    | 239-249 feet bgs |    | 239-249 feet bgs     |   | 239-249 feet bgs |    | 239-249 feet bgs |     |
|                                                                                |                                               | (µg/L)           |   | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |    | (µg/L)               |   | (µg/L)           |    | (µg/L)           |     |
| Analyte                                                                        |                                               |                  |   |                  |    |                  |   |                  |    |                  |    |                      |   |                  |    |                  |     |
| 1,1,1-Trichloroethane                                                          | 5                                             | 1.2              | J | 0.88             | J  | 4.2              | U | 4.2              | U  | 4.2              | U  | 2.1                  | U | 2.1              | U  | 1.1              | J   |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U | 0.10             | UJ | 3.0              | U | 3.0              | U  | 3.0              | U  | 1.5                  | U | 1.5              | U  | 0.10             | U   |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U | 0.10             | UJ | 3.8              | U | 3.8              | U  | 3.8              | U  | 1.9                  | U | 1.9              | U  | 0.20             | J   |
| 1,1-Dichloroethane                                                             | 5                                             | 0.96             | J | 0.69             | J  | 3.4              | U | 3.4              | U  | 3.4              | U  | 1.7                  | U | 1.7              | U  | 1.3              | J   |
| 1,1-Dichloroethene                                                             | 5                                             | 6.7              | J | 4.3              | J  | 5.0              | U | 5.0              | UJ | 5.0              | UJ | 2.6                  | J | 2.5              | U  | 4.4              | J   |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U | 0.10             | U  | 1.7              | U | 1.7              | U  | 1.7              | U  | 0.83                 | U | 0.83             | U  | 0.10             | U   |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U | 0.10             | U  | 3.4              | U | 3.4              | U  | 3.4              | U  | 1.7                  | U | 1.7              | U  | 0.10             | U   |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U | 0.10             | UJ | 3.0              | U | 3.0              | U  | 3.0              | U  | 1.5                  | U | 1.5              | U  | 0.10             | U*  |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U | 0.10             | U  | 3.6              | U | 3.6              | U  | 3.6              | U  | 1.8                  | U | 1.8              | U  | 0.10             | U   |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U | 0.10             | U  | 3.4              | U | 3.4              | U  | 3.4              | U  | 1.7                  | U | 1.7              | U  | 0.10             | U   |
| Acetone                                                                        | 50                                            | 0.10             | U | 0.10             | UJ | 3.8              | U | 3.8              | U  | 3.8              | U  | 21                   | U | 1.9              | U  | 0.96             | JB* |
| Benzene                                                                        | 1                                             | 0.10             | U | 0.10             | U  | 3.2              | U | 3.2              | U  | 3.2              | U  | 1.6                  | U | 1.6              | U  | 0.10             | U   |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U | 0.10             | U  | 3.0              | U | 3.0              | U  | 3.0              | U  | 1.5                  | U | 1.5              | U  | 0.10             | U   |
| Bromoform                                                                      | 50                                            | 0.10             | U | 0.10             | U  | 10               | U | 10               | UJ | 10               | U  | 5.0                  | U | 5.0              | UJ | 0.10             | U   |
| Bromomethane                                                                   | 5                                             | 0.10             | U | 0.10             | U  | 8.6              | U | 8.6              | U  | 8.6              | U  | 4.3                  | U | 4.3              | U  | 0.10             | U   |
| Carbon disulfide                                                               | 60                                            | 0.10             | U | 0.10             | U  | 4.2              | U | 4.2              | U  | 4.2              | U  | 2.1                  | U | 2.1              | U  | 0.10             | U*  |
| Carbon tetrachloride                                                           | 5                                             | 3.4              | J | 3.8              | J  | 8.5              | J | 7.6              | J  | 6.0              | J  | 6.9                  | J | 2.0              | U  | 20               |     |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U | 0.10             | U  | 3.2              | U | 3.2              | U  | 3.2              | U  | 1.6                  | U | 1.6              | U  | 0.10             | U   |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U | 0.10             | U  | 3.4              | U | 3.4              | U  | 3.4              | U  | 1.7                  | U | 1.7              | U  | 0.10             | U   |
| Chloroethane                                                                   | 5                                             | 0.10             | U | 0.10             | U  | 5.0              | U | 5.0              | U  | 5.0              | U  | 2.5                  | U | 2.5              | U  | 0.10             | U   |
| Chloroform                                                                     | 7                                             | 3.8              | J | 2.8              | J  | 4.7              | J | 5.2              | J  | 3.8              | U  | 3.5                  | J | 1.9              | U  | 2.1              | J   |
| Chloromethane                                                                  | 5                                             | 0.10             | U | 0.10             | UJ | 4.6              | U | 4.6              | U  | 4.6              | U  | 2.3                  | U | 2.3              | U  | 0.10             | U*  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 39               |   | 34               |    | 56               |   | 61               |    | 79               |    | 78                   |   | 1.8              | U  | 53               |     |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U | 0.10             | U  | 2.8              | U | 2.8              | U  | 2.8              | U  | 1.4                  | U | 1.4              | U  | 0.10             | U   |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U | 0.10             | U  | 3.2              | U | 3.2              | U  | 3.2              | U  | 1.6                  | U | 1.6              | U  | 0.10             | U   |
| Methylene chloride                                                             | 5                                             | 0.10             | U | 0.10             | U  | 2.6              | U | 2.6              | U  | 2.6              | U  | 1.3                  | U | 1.3              | U  | 0.23             | JB  |
| Styrene                                                                        | 5                                             | 0.10             | U | 0.10             | U  | 3.4              | U | 3.4              | U  | 3.4              | U  | 1.7                  | U | 1.7              | U  | 0.10             | U   |
| Tetrachloroethene                                                              | 5                                             | 40               |   | 39               |    | 58               |   | 63               |    | 64               |    | 70                   |   | 640              | J  | 100              | B   |
| Toluene                                                                        | 5                                             | 0.10             | J | 0.17             | J  | 3.2              | U | 3.2              | U  | 3.2              | U  | 1.6                  | U | 1.6              | U  | 0.11             | J   |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.43             | J | 0.33             | J  | 3.8              | U | 3.8              | U  | 3.8              | U  | 1.9                  | U | 1.9              | U  | 0.55             | J   |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U | 0.10             | U  | 3.2              | U | 3.2              | U  | 3.2              | U  | 1.6                  | U | 1.6              | U  | 0.10             | U   |
| Trichloroethene                                                                | 5                                             | 200              |   | 180              |    | 300              |   | 340              |    | 390              |    | 410                  | D | 13               |    | 560              |     |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U | 0.10             | U  | 4.6              | U | 4.6              | U  | 4.6              | U  | 2.3                  | U | 2.3              | U  | 0.10             | U*  |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |    | NA               |   | NA               |    | NA               |    | NA                   |   | NA               |    | NA               |     |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |    | NA               |   | NA               |    | NA               |    | NA                   |   | NA               |    | NA               |     |
| Total Xylenes                                                                  | 5                                             | 0.10             | U | 0.10             | U  | 1.6              | U | 1.6              | U  | 0.82             | U  | 0.82                 | U | 0.10             | U  | 0.5              | U   |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2009             |    | 2008             |    | 2007             |   | 2006             |    | 2018             |    |                  |   |                  |   |                  |   | 2017     |  |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|------------------|----|------------------|---|------------------|----|------------------|----|------------------|---|------------------|---|------------------|---|----------|--|
|                                                                                |                                               | FSMW-13C         |    | FSMW-13C         |    | FSMW-13C         |   | FSMW-13C         |    | FSMW-14A         |    | FSMW-14A         |   | FSMW-14A         |   | FSMW-14A         |   | FSMW-14A |  |
|                                                                                |                                               | Sep-09           |    | Sep-08           |    | Aug-07           |   | Aug-06           |    | Sep-18           |    | Jun-18           |   | Mar-18           |   | Dec-17           |   |          |  |
|                                                                                |                                               | 239-249 feet bgs |    | 239-249 feet bgs |    | 239-249 feet bgs |   | 239-249 feet bgs |    | 119-129 feet bgs |    | 119-129 feet bgs |   | 119-129 feet bgs |   | 119-129 feet bgs |   |          |  |
|                                                                                |                                               | (µg/L)           |    | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |    | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)   |  |
| Analyte                                                                        |                                               |                  |    |                  |    |                  |   |                  |    |                  |    |                  |   |                  |   |                  |   |          |  |
| 1,1,1-Trichloroethane                                                          | 5                                             | 1.2              | J  | 1.4              | J  | 1.8              | J | 40               | U  | 4.8              | UJ | 1.2              | U | 2.0              | U | 2.5              | U |          |  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 7.3              | UJ | 1.8              | U | 2.0              | U | 2.5              | U |          |  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 8.7              | UJ | 2.2              | U | 2.0              | U | 2.5              | U |          |  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.1              | J  | 0.88             | J  | 0.72             | J | 40               | U  | 5.3              | UJ | 1.3              | U | 2.0              | U | 2.5              | U |          |  |
| 1,1-Dichloroethene                                                             | 5                                             | 4.5              | J  | 0.10             | U  | 5.3              | J | 40               | U  | 2.3              | UJ | 0.59             | U | 2.0              | U | 2.5              | U |          |  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 8.6              | UJ | 2.2              | U | 2.0              | U | 2.5              | U |          |  |
| 1,2-Dichloropropane                                                            | 1                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 7.1              | UJ | 1.8              | U | 2.0              | U | 2.5              | U |          |  |
| 2-Butanone (MEK)                                                               | 50                                            | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 37               | UJ | 9.3              | U | 2.0              | U | 2.5              | U |          |  |
| 2-Hexanone                                                                     | 50                                            | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 58               | UJ | 15               | U | 2.0              | U | 2.5              | U |          |  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 55               | UJ | 14               | U | 2.0              | U | 2.5              | U |          |  |
| Acetone                                                                        | 50                                            | 3.8              | J  | 0.10             | U* | 0.10             | U | 40               | U  | 100              | UJ | 25               | U | 2.0              | U | 2.5              | U |          |  |
| Benzene                                                                        | 1                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 8.6              | UJ | 2.1              | U | 2.0              | U | 2.5              | U |          |  |
| Bromodichloromethane                                                           | 50                                            | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 6.9              | UJ | 1.7              | U | 2.0              | U | 2.5              | U |          |  |
| Bromoform                                                                      | 50                                            | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 11               | UJ | 2.7              | U | 2.0              | U | 2.5              | U |          |  |
| Bromomethane                                                                   | 5                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | UJ | 20               | UJ | 5                | U | 2.0              | U | 2.5              | U |          |  |
| Carbon disulfide                                                               | 60                                            | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 3.1              | UJ | 0.78             | U | 2.0              | U | 2.5              | U |          |  |
| Carbon tetrachloride                                                           | 5                                             | 16               | J  | 28               |    | 36               |   | 42               |    | 4.2              | UJ | 1                | U | 2.0              | U | 2.5              | U |          |  |
| Chlorobenzene                                                                  | 5                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 7.5              | UJ | 1.9              | U | 2.0              | U | 2.5              | U |          |  |
| Chlorobromomethane                                                             | 5                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 8.2              | UJ | 2.1              | U | 2.0              | U | 2.5              | U |          |  |
| Chloroethane                                                                   | 5                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | UJ | 6.4              | UJ | 1.6              | U | 2.0              | U | 2.5              | U |          |  |
| Chloroform                                                                     | 7                                             | 2.1              | J  | 1.60             | J  | 1.7              | J | 1                | J  | 6.5              | UJ | 1.6              | U | 2.0              | U | 2.5              | U |          |  |
| Chloromethane                                                                  | 5                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 2.9              | UJ | 0.72             | U | 2.0              | U | 2.5              | U |          |  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 39               | J  | 28               |    | 20               |   | 15               | J  | 4.4              | UJ | 14               |   | 35               | J | 23               | J |          |  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 9.1              | UJ | 2.3              | U | 2.0              | U | 2.5              | U |          |  |
| Ethylbenzene                                                                   | 5                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 6                | UJ | 1.5              | U | 2.0              | U | 2.5              | U |          |  |
| Methylene chloride                                                             | 5                                             | 8.4              | JB | 0.42             | JB | 0.10             | U | 40               | U  | 6.3              | UJ | 1.6              | U | 2.0              | U | 2.5              | U |          |  |
| Styrene                                                                        | 5                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 8.3              | UJ | 2.1              | U | 2.0              | U | 2.5              | U |          |  |
| Tetrachloroethene                                                              | 5                                             | 96               |    | 67               |    | 88               |   | 89               |    | 3,000            | J- | 1,600            |   | 3,100            |   | 2,300            |   |          |  |
| Toluene                                                                        | 5                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 7.6              | UJ | 1.9              | U | 2.0              | U | 2.5              | U |          |  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 0.93             | J  | 2.0              | J  | 0.10             | U | 40               | U  | 4.7              | UJ | 1.2              | U | 2.0              | U | 2.5              | U |          |  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 9.7              | UJ | 2.4              | U | 2.0              | U | 2.5              | U |          |  |
| Trichloroethene                                                                | 5                                             | 510              |    | 410              |    | 530              |   | 500              |    | 42               | J- | 45               |   | 100              | J | 57               | J |          |  |
| Vinyl chloride                                                                 | 2                                             | 0.5              | U  | 0.10             | U  | 0.10             | U | 40               | U  | 3.4              | UJ | 0.86             | U | 2.0              | U | 2.5              | U |          |  |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA               |    | NA               |   | NA               |    | NA               |    | 1.5              | U | NA               |   | NA               |   |          |  |
| o-Xylene                                                                       | 5                                             | NA               |    | NA               |    | NA               |   | NA               |    | NA               |    | 1.8              | U | NA               |   | NA               |   |          |  |
| Total Xylenes                                                                  | 5                                             | 0.10             | U  | 0.10             | U  | 40               | U | 82               | U  | 13               | UJ | NA               |   | 2.0              | U | 2.5              | U |          |  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2017             |   |                  |    |                      |    |                  |    |                      |    | 2016             |    |                      |    |                  |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|----|----------------------|----|------------------|----|----------------------|----|------------------|----|----------------------|----|------------------|----|
|                                                                                |                                               | FSMW-14A         |   | FSMW-14A         |    | FSMW-14A - Duplicate |    | FSMW-14A         |    | FSMW-14A - Duplicate |    | FSMW-14A         |    | FSMW-14A - Duplicate |    | FSMW-14A         |    |
|                                                                                |                                               | Sep-17           |   | Jun-17           |    | Jun-17               |    | Mar-17           |    | Mar-17               |    | Dec-16           |    | Dec-16               |    | Sep-16           |    |
|                                                                                |                                               | 119-129 feet bgs |   | 119-129 feet bgs |    | 119-129 feet bgs     |    | 119-129 feet bgs |    | 119-129 feet bgs     |    | 119-129 feet bgs |    | 119-129 feet bgs     |    | 119-129 feet bgs |    |
|                                                                                |                                               | (µg/L)           |   | (µg/L)           |    | (µg/L)               |    | (µg/L)           |    | (µg/L)               |    | (µg/L)           |    | (µg/L)               |    | (µg/L)           |    |
| Analyte                                                                        |                                               |                  |   |                  |    |                      |    |                  |    |                      |    |                  |    |                      |    |                  |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.23             | J  | 0.15                 | J  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | UJ | 2.0                  | UJ | 2.0              | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.56             | J  | 0.67                 | J  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5              | U | 2.5              | UJ | 2.5                  | UJ | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | UJ | 0.10                 | UJ | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | UJ | 2.0                  | U  | 2.0              | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | UJ | 2.0                  | UJ | 2.0              | U  |
| 2-Hexanone                                                                     | 50                                            | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | UJ | 2.0                  | U  | 2.0              | U  |
| Acetone                                                                        | 50                                            | 2.5              | U | 2.5              | UJ | 2.5                  | UJ | 0.10             | UJ | 0.10                 | UJ | 2.0              | U  | 2.0                  | UJ | 2.0              | UJ |
| Benzene                                                                        | 1                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Bromodichloromethane                                                           | 50                                            | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Bromoform                                                                      | 50                                            | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Bromomethane                                                                   | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | UJ |
| Carbon disulfide                                                               | 60                                            | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Chlorobenzene                                                                  | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.37             | J  | 0.34                 | J  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Chlorobromomethane                                                             | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Chloroethane                                                                   | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Chloroform                                                                     | 7                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Chloromethane                                                                  | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | UJ | 2.0              | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 39               | J | 50               | J  | 45                   | J  | 21               |    | 21                   |    | 8.9              | J  | 7.2                  | J  | 13               | J  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Ethylbenzene                                                                   | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Methylene chloride                                                             | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Styrene                                                                        | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Tetrachloroethene                                                              | 5                                             | 2,900            |   | 3,600            |    | 3,600                |    | 1,700            | D  | 1,800                | D  | 1,600            |    | 1,400                |    | 2,000            |    |
| Toluene                                                                        | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.27             | J  | 0.28                 | J  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| Trichloroethene                                                                | 5                                             | 89               | J | 100              | J  | 100                  | J  | 86               |    | 83                   | J  | 36               | J  | 32                   | J  | 50               | J  |
| Vinyl chloride                                                                 | 2                                             | 2.5              | U | 2.5              | U  | 2.5                  | U  | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |    | NA                   |    | NA               |    | NA                   |    | NA               |    | NA                   |    | NA               |    |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |    | NA                   |    | NA               |    | NA                   |    | NA               |    | NA                   |    | NA               |    |
| Total Xylenes                                                                  | 5                                             | 2.5              | U | 2.5              | UJ | 2.5                  | UJ | 0.10             | U  | 0.10                 | U  | 2.0              | U  | 2.0                  | U  | 2.0              | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2016             |   |                      |   |                  |   | 2015             |   |                      |   | 2014             |   | 2013             |   |                      |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|----------------------|---|------------------|---|------------------|---|----------------------|---|------------------|---|------------------|---|----------------------|---|
|                                                                                |                                               | FSMW-14A         |   | FSMW-14A - Duplicate |   | FSMW-14A         |   | FSMW-14A         |   | FSMW-14A - Duplicate |   | FSMW-14A         |   | FSMW-14A         |   | FSMW-14A - Duplicate |   |
|                                                                                |                                               | Jun-16           |   | Jun-16               |   | Apr-16           |   | Sep-15           |   | Sep-15               |   | Oct-14           |   | Oct-13           |   | Oct-13               |   |
|                                                                                |                                               | 119-129 feet bgs |   | 119-129 feet bgs     |   | 119-129 feet bgs |   | 119-129 feet bgs |   | 119-129 feet bgs     |   | 119-129 feet bgs |   | 119-129 feet bgs |   | 119-129 feet bgs     |   |
|                                                                                |                                               | (µg/L)           |   | (µg/L)               |   | (µg/L)           |   | (µg/L)           |   | (µg/L)               |   | (µg/L)           |   | (µg/L)           |   | (µg/L)               |   |
| Analyte                                                                        |                                               |                  |   |                      |   |                  |   |                  |   |                      |   |                  |   |                  |   |                      |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 42               | U | 42                   | U | 210              | U | 2.1              | U | 84                   | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 30               | U | 30                   | U | 150              | U | 1.5              | U | 60                   | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 38               | U | 38                   | U | 190              | U | 1.9              | U | 76                   | U |
| 1,1-Dichloroethane                                                             | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 34               | U | 34                   | U | 170              | U | 1.7              | U | 68                   | U |
| 1,1-Dichloroethene                                                             | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 50               | U | 50                   | U | 250              | U | 2.5              | U | 100                  | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 2.0              | U | 2.0                  | U | 2.0              | U | 17               | U | 17                   | U | 83               | U | 0.83             | U | 33                   | U |
| 1,2-Dichloropropane                                                            | 1                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 34               | U | 34                   | U | 170              | U | 1.7              | U | 68                   | U |
| 2-Butanone (MEK)                                                               | 50                                            | 2.0              | U | 2.0                  | U | 2.0              | U | 30               | U | 30                   | U | 150              | U | 1.5              | U | 60                   | U |
| 2-Hexanone                                                                     | 50                                            | 2.0              | U | 2.0                  | U | 2.0              | U | 36               | U | 36                   | U | 180              | U | 1.8              | U | 72                   | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 2.0              | U | 2.0                  | U | 2.0              | U | 34               | U | 34                   | U | 170              | U | 1.7              | U | 68                   | U |
| Acetone                                                                        | 50                                            | 2.0              | U | 2.0                  | U | 2.0              | U | 38               | U | 38                   | U | 190              | U | 3.6              | U | 76                   | U |
| Benzene                                                                        | 1                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 32               | U | 32                   | U | 160              | U | 1.6              | U | 64                   | U |
| Bromodichloromethane                                                           | 50                                            | 2.0              | U | 2.0                  | U | 2.0              | U | 30               | U | 30                   | U | 150              | U | 1.5              | U | 60                   | U |
| Bromoform                                                                      | 50                                            | 2.0              | U | 2.0                  | U | 2.0              | U | 100              | U | 100                  | U | 500              | U | 5.0              | U | 200                  | U |
| Bromomethane                                                                   | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 86               | U | 86                   | U | 430              | U | 4.3              | U | 170                  | U |
| Carbon disulfide                                                               | 60                                            | 2.0              | U | 2.0                  | U | 2.0              | U | 42               | U | 42                   | U | 210              | U | 2.1              | U | 84                   | U |
| Carbon tetrachloride                                                           | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 40               | U | 40                   | U | 200              | U | 2.0              | U | 80                   | U |
| Chlorobenzene                                                                  | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 32               | U | 32                   | U | 160              | U | 1.6              | U | 64                   | U |
| Chlorobromomethane                                                             | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 34               | U | 34                   | U | 170              | U | 1.7              | U | 68                   | U |
| Chloroethane                                                                   | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 50               | U | 50                   | U | 250              | U | 2.5              | U | 100                  | U |
| Chloroform                                                                     | 7                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 38               | U | 38                   | U | 190              | U | 1.9              | U | 76                   | U |
| Chloromethane                                                                  | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 46               | U | 46                   | U | 230              | U | 2.3              | U | 92                   | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 18               | J | 17                   | J | 7.5              | J | 36               | U | 36                   | U | 180              | U | 61               |   | 72                   | R |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 2.0              | U | 2.0                  | U | 2.0              | U | 28               | U | 28                   | U | 140              | U | 1.4              | U | 56                   | U |
| Ethylbenzene                                                                   | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 32               | U | 32                   | U | 160              | U | 1.6              | U | 64                   | U |
| Methylene chloride                                                             | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 26               | U | 26                   | U | 130              | U | 1.3              | U | 52                   | U |
| Styrene                                                                        | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 34               | U | 34                   | U | 170              | U | 1.7              | U | 68                   | U |
| Tetrachloroethene                                                              | 5                                             | 2,100            |   | 2,100                |   | 2,000            |   | 2,700            |   | 3,300                |   | 10,000           |   | 12,000           | D | 11,000               | D |
| Toluene                                                                        | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 32               | U | 32                   | U | 160              | U | 1.6              | U | 64                   | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 38               | U | 38                   | U | 190              | U | 1.9              | U | 76                   | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 2.0              | U | 2.0                  | U | 2.0              | U | 32               | U | 32                   | U | 160              | U | 1.6              | U | 64                   | U |
| Trichloroethene                                                                | 5                                             | 62               | J | 57                   | J | 44               | J | 80               | J | 100                  | J | 340              | J | 340              | J | 340                  | J |
| Vinyl chloride                                                                 | 2                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 46               | U | 46                   | U | 230              | U | 2.3              | U | 92                   | U |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA                   |   | NA               |   | NA               |   | NA                   |   | NA               |   | NA               |   | NA                   |   |
| o-Xylene                                                                       | 5                                             | NA               |   | NA                   |   | NA               |   | NA               |   | NA                   |   | NA               |   | NA               |   | NA                   |   |
| Total Xylenes                                                                  | 5                                             | 2.0              | U | 2.0                  | U | 2.0              | U | 16               | U | 16                   | U | 0.82             | U | 33               | U | 0.82                 | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2012             |    |                      |    | 2010             |     | 2009             |    | 2008             |    |                      |    | 2007             |   | 2006             |    |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|----------------------|----|------------------|-----|------------------|----|------------------|----|----------------------|----|------------------|---|------------------|----|
|                                                                                |                                               | FSMW-14A         |    | FSMW-14A - Duplicate |    | FSMW-14A         |     | FSMW-14A         |    | FSMW-14A         |    | FSMW-14A - Duplicate |    | FSMW-14A         |   | FSMW-14A         |    |
|                                                                                |                                               | Nov-12           |    | Nov-12               |    | Sep-10           |     | Sep-09           |    | Sep-08           |    | Sep-08               |    | Aug-07           |   | Aug-06           |    |
|                                                                                |                                               | 119-129 feet bgs |    | 119-129 feet bgs     |    | 119-129 feet bgs |     | 119-129 feet bgs |    | 119-129 feet bgs |    | 119-129 feet bgs     |    | 119-129 feet bgs |   | 119-129 feet bgs |    |
|                                                                                |                                               | (µg/L)           |    | (µg/L)               |    | (µg/L)           |     | (µg/L)           |    | (µg/L)           |    | (µg/L)               |    | (µg/L)           |   | (µg/L)           |    |
| Analyte                                                                        |                                               |                  |    |                      |    |                  |     |                  |    |                  |    |                      |    |                  |   |                  |    |
| 1,1,1-Trichloroethane                                                          | 5                                             | 2.1              | U  | 8.4                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 12               |   | 2,000            | U  |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.5              | U  | 6                    | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.9              | U  | 7.6                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| 1,1-Dichloroethane                                                             | 5                                             | 1.7              | U  | 6.8                  | U  | 4.0              | U   | 1.8              | J  | 5.0              | U  | 5.0                  | U  | 1.2              | J | 2,000            | U  |
| 1,1-Dichloroethene                                                             | 5                                             | 2.5              | U  | 10                   | U  | 6.9              | J   | 3.2              | J  | 5.0              | U  | 5.0                  | U  | 7.0              | J | 2,000            | U  |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.83             | U  | 3.3                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| 1,2-Dichloropropane                                                            | 1                                             | 1.7              | U  | 6.8                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| 2-Butanone (MEK)                                                               | 50                                            | 1.5              | UJ | 6                    | UJ | 4.0              | U*  | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| 2-Hexanone                                                                     | 50                                            | 1.8              | UJ | 7.2                  | UJ | 4.0              | U*  | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.7              | U  | 6.8                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| Acetone                                                                        | 50                                            | 1.9              | UJ | 7.6                  | UJ | 7.6              | JB* | 280              | JB | 5.0              | U* | 5.0                  | U* | 0.10             | U | 2,000            | U  |
| Benzene                                                                        | 1                                             | 1.6              | U  | 6.4                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| Bromodichloromethane                                                           | 50                                            | 1.5              | U  | 6                    | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| Bromoform                                                                      | 50                                            | 5.0              | UJ | 20                   | UJ | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| Bromomethane                                                                   | 5                                             | 4.3              | U  | 17                   | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | UJ |
| Carbon disulfide                                                               | 60                                            | 2.1              | U  | 8.4                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| Carbon tetrachloride                                                           | 5                                             | 2.0              | U  | 8.0                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| Chlorobenzene                                                                  | 5                                             | 1.6              | U  | 6.4                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 8.3              | J | 2,000            | U  |
| Chlorobromomethane                                                             | 5                                             | 1.7              | U  | 6.8                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| Chloroethane                                                                   | 5                                             | 2.5              | U  | 10                   | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | UJ |
| Chloroform                                                                     | 7                                             | 1.9              | U  | 7.6                  | U  | 4.0              | U   | 50               | U  | 66               | J  | 67                   | J  | 0.10             | U | 2,000            | U  |
| Chloromethane                                                                  | 5                                             | 2.3              | U  | 9.2                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 190              |    | 190                  |    | 330              | J   | 440              | J  | 570              |    | 590                  |    | 700              | J | 460              | J  |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.4              | U  | 5.6                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| Ethylbenzene                                                                   | 5                                             | 1.6              | U  | 6.4                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.30             | J | 2,000            | U  |
| Methylene chloride                                                             | 5                                             | 1.3              | U  | 5.2                  | U  | 41               | JB  | 1,000            | JB | 64               | JB | 56                   | JB | 0.10             | U | 2,000            | U  |
| Styrene                                                                        | 5                                             | 1.7              | U  | 6.8                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| Tetrachloroethene                                                              | 5                                             | 37,000           | D  | 34,000               | D  | 48,000           |     | 59,000           |    | 58,000           |    | 61,000               |    | 75,000           |   | 32,000           |    |
| Toluene                                                                        | 5                                             | 1.6              | U  | 6.4                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 2.9              | J | 2,000            | U  |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.9              | U  | 7.6                  | U  | 4.4              | J   | 50               | U  | 5.0              | U  | 5.0                  | U  | 5.9              | J | 2,000            | U  |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.6              | U  | 6.4                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.10             | U | 2,000            | U  |
| Trichloroethene                                                                | 5                                             | 1,400            | J  | 1,400                | J  | 1,500            |     | 1,800            | J  | 2,200            |    | 2,100                |    | 2,300            | J | 1,200            | J  |
| Vinyl chloride                                                                 | 2                                             | 2.3              | U  | 9.2                  | U  | 4.0              | U   | 50               | U  | 5.0              | U  | 5.0                  | U  | 0.94             | J | 2,000            | U  |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA                   |    | NA               |     | NA               |    | NA               |    | NA                   |    | NA               |   | NA               |    |
| o-Xylene                                                                       | 5                                             | NA               |    | NA                   |    | NA               |     | NA               |    | NA               |    | NA                   |    | NA               |   | NA               |    |
| Total Xylenes                                                                  | 5                                             | 3.3              | U  | 4.0                  | U  | 50               | U   | 5.0              | U  | 5.0              | U  | 1.6                  | J  | 2,000            | U | 16               | U  |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2018             |           |                  |          |                  |          |                      |          | 2017             |          |                  |          |                      |          |                  |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|-----------|------------------|----------|------------------|----------|----------------------|----------|------------------|----------|------------------|----------|----------------------|----------|------------------|----------|
|                                                                                |                                               | FSMW-14B         |           | FSMW-14B         |          | FSMW-14B         |          | FSMW-14B - Duplicate |          | FSMW-14B         |          | FSMW-14B         |          | FSMW-14B - Duplicate |          | FSMW-14B         |          |
|                                                                                |                                               | Sep-18           |           | Jun-18           |          | Mar-18           |          | Mar-18               |          | Dec-17           |          | Sep-17           |          | Sep-17               |          | Jun-17           |          |
|                                                                                |                                               | 159-169 feet bgs |           | 159-169 feet bgs |          | 159-169 feet bgs |          | 159-169 feet bgs     |          | 159-169 feet bgs |          | 159-169 feet bgs |          | 159-169 feet bgs     |          | 159-169 feet bgs |          |
|                                                                                |                                               | (µg/L)           |           | (µg/L)           |          | (µg/L)           |          | (µg/L)               |          | (µg/L)           |          | (µg/L)           |          | (µg/L)               |          | (µg/L)           |          |
| Analyte                                                                        |                                               |                  |           |                  |          |                  |          |                      |          |                  |          |                  |          |                      |          |                  |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | 1.2              | UJ        | 1.2              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.8              | UJ        | 1.8              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 2.2              | UJ        | 2.2              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| 1,1-Dichloroethane                                                             | 5                                             | 1.3              | UJ        | 1.3              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| 1,1-Dichloroethene                                                             | 5                                             | 0.59             | UJ        | 0.59             | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | UJ       |
| 1,2-Dichloroethane                                                             | 0.6                                           | 2.2              | UJ        | 2.2              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 1.8              | UJ        | 1.8              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 9.3              | UJ        | 9.3              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| 2-Hexanone                                                                     | 50                                            | 15               | UJ        | 15               | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 14               | UJ        | 14               | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Acetone                                                                        | 50                                            | 25               | UJ        | 25               | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | UJ       |
| Benzene                                                                        | 1                                             | 2.1              | UJ        | 2.1              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Bromodichloromethane                                                           | 50                                            | 1.7              | UJ        | 1.7              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Bromoform                                                                      | 50                                            | 2.7              | UJ        | 2.7              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Bromomethane                                                                   | 5                                             | 5                | UJ        | 5                | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Carbon disulfide                                                               | 60                                            | 0.78             | UJ        | 0.78             | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Carbon tetrachloride                                                           | 5                                             | 1                | UJ        | 1                | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Chlorobenzene                                                                  | 5                                             | 1.9              | UJ        | 1.9              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Chlorobromomethane                                                             | 5                                             | 2.1              | UJ        | 2.1              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Chloroethane                                                                   | 5                                             | 1.6              | UJ        | 1.6              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Chloroform                                                                     | 7                                             | 1.6              | UJ        | 1.6              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Chloromethane                                                                  | 5                                             | 0.72             | UJ        | 0.72             | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>6.5</b>       | <b>J-</b> | <b>2.1</b>       | <b>J</b> | 2.0              | U        | 2.5                  | U        | <b>4</b>         | <b>J</b> | <b>4.0</b>       | <b>J</b> | 4.2                  | U        | 2.5              | UJ       |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 2.3              | UJ        | 2.3              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Ethylbenzene                                                                   | 5                                             | 1.5              | UJ        | 1.5              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Methylene chloride                                                             | 5                                             | 1.6              | UJ        | 1.6              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Styrene                                                                        | 5                                             | 2.1              | UJ        | 2.1              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Tetrachloroethene                                                              | 5                                             | <b>1,100</b>     | <b>J-</b> | <b>1,600</b>     |          | <b>2,100</b>     |          | <b>2,400</b>         |          | <b>2,300</b>     |          | <b>2,000</b>     |          | <b>1,900</b>         |          | <b>1,600</b>     |          |
| Toluene                                                                        | 5                                             | 1.9              | UJ        | 1.9              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.2              | UJ        | 1.2              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 2.4              | UJ        | 2.4              | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| Trichloroethene                                                                | 5                                             | <b>33</b>        | <b>J-</b> | <b>33</b>        |          | <b>53</b>        | <b>J</b> | <b>53</b>            | <b>J</b> | <b>44</b>        | <b>J</b> | <b>36</b>        | <b>J</b> | <b>37</b>            | <b>J</b> | <b>29</b>        | <b>J</b> |
| Vinyl chloride                                                                 | 2                                             | 0.86             | UJ        | 0.86             | U        | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | U        |
| m+p Xylene                                                                     | 5                                             | NA               |           | 1.5              | U        | NA               |          | NA                   |          | NA               |          | NA               |          | NA                   |          | NA               |          |
| o-Xylene                                                                       | 5                                             | NA               |           | 1.8              | U        | NA               |          | NA                   |          | NA               |          | NA               |          | NA                   |          | NA               |          |
| Total Xylenes                                                                  | 5                                             | 3.3              | UJ        | NA               |          | 2.0              | U        | 2.5                  | U        | 2.5              | U        | 2.5              | U        | 2.5                  | U        | 2.5              | UJ       |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2017             |   | 2016             |   | 2015             |   | 2014                 |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|---|------------------|---|------------------|---|----------------------|---|
|                                                                                |                                               | FSMW-14B         |   | FSMW-14B         |   | FSMW-14B         |   | FSMW-14B - Duplicate |   |
|                                                                                |                                               | Mar-17           |   | Dec-16           |   | Sep-16           |   | Jun-16               |   |
|                                                                                |                                               | Apr-16           |   | Apr-16           |   | Apr-16           |   | Apr-16               |   |
|                                                                                |                                               | 159-169 feet bgs |   | 159-169 feet bgs |   | 159-169 feet bgs |   | 159-169 feet bgs     |   |
| Analyte                                                                        |                                               | (µg/L)           |   | (µg/L)           |   | (µg/L)           |   | (µg/L)               |   |
|                                                                                |                                               |                  |   |                  |   |                  |   |                      |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| 1,1-Dichloroethane                                                             | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| 1,1-Dichloroethene                                                             | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| 1,2-Dichloroethane                                                             | 0.6                                           | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| 1,2-Dichloropropane                                                            | 1                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| 2-Butanone (MEK)                                                               | 50                                            | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| 2-Hexanone                                                                     | 50                                            | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Acetone                                                                        | 50                                            | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Benzene                                                                        | 1                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Bromodichloromethane                                                           | 50                                            | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Bromoform                                                                      | 50                                            | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Bromomethane                                                                   | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Carbon disulfide                                                               | 60                                            | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Carbon tetrachloride                                                           | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Chlorobenzene                                                                  | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Chlorobromomethane                                                             | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Chloroethane                                                                   | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Chloroform                                                                     | 7                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Chloromethane                                                                  | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 2.5              | J | 1.0              | U | 1.0              | U | 2.0                  | U |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Ethylbenzene                                                                   | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Methylene chloride                                                             | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Styrene                                                                        | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Tetrachloroethene                                                              | 5                                             | 1,500            |   | 1,500            |   | 1,600            |   | 2,000                |   |
| Toluene                                                                        | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| Trichloroethene                                                                | 5                                             | 28               | J | 24               | J | 25               | J | 23                   | J |
| Vinyl chloride                                                                 | 2                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |
| m+p Xylene                                                                     | 5                                             | NA               |   | NA               |   | NA               |   | NA                   |   |
| o-Xylene                                                                       | 5                                             | NA               |   | NA               |   | NA               |   | NA                   |   |
| Total Xylenes                                                                  | 5                                             | 1.0              | U | 1.0              | U | 1.0              | U | 2.0                  | U |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2014                 |    | 2013             |   | 2012             |    | 2010             |     |                      |     | 2009             |    | 2008             |    | 2007             |   |
|--------------------------------------------------------------------------------|-----------------------------------------------|----------------------|----|------------------|---|------------------|----|------------------|-----|----------------------|-----|------------------|----|------------------|----|------------------|---|
|                                                                                |                                               | FSMW-14B - Duplicate |    | FSMW-14B         |   | FSMW-14B         |    | FSMW-14B         |     | FSMW-14B - Duplicate |     | FSMW-14B         |    | FSMW-14B         |    | FSMW-14B         |   |
|                                                                                |                                               | Oct-14               |    | Oct-13           |   | Nov-12           |    | Sep-10           |     | Sep-10               |     | Sep-09           |    | Sep-08           |    | Aug-07           |   |
|                                                                                |                                               | 159-169 feet bgs     |    | 159-169 feet bgs |   | 159-169 feet bgs |    | 159-169 feet bgs |     | 159-169 feet bgs     |     | 159-169 feet bgs |    | 159-169 feet bgs |    | 159-169 feet bgs |   |
|                                                                                |                                               | (µg/L)               |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |     | (µg/L)               |     | (µg/L)           |    | (µg/L)           |    | (µg/L)           |   |
| Analyte                                                                        |                                               |                      |    |                  |   |                  |    |                  |     |                      |     |                  |    |                  |    |                  |   |
| 1,1,1-Trichloroethane                                                          | 5                                             | 42                   | U  | 42               | U | 6.3              | J  | 24               | J   | 24                   | J   | 36               | J  | 48               | J  | 75               |   |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 30                   | U  | 30               | U | 1.5              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| 1,1,2-Trichloroethane                                                          | 1                                             | 38                   | U  | 38               | U | 1.9              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| 1,1-Dichloroethane                                                             | 5                                             | 34                   | U  | 34               | U | 1.7              | U  | 2.0              | J   | 2.0                  | J   | 5                | U  | 1.0              | U  | 11               |   |
| 1,1-Dichloroethene                                                             | 5                                             | 50                   | U  | 50               | U | 2.5              | U  | 3.9              | J   | 5.1                  | J   | 19               | J  | 13               | J  | 36               |   |
| 1,2-Dichloroethane                                                             | 0.6                                           | 17                   | U  | 17               | U | 0.83             | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| 1,2-Dichloropropane                                                            | 1                                             | 34                   | U  | 34               | U | 1.7              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| 2-Butanone (MEK)                                                               | 50                                            | 30                   | U  | 30               | U | 1.5              | U  | 0.40             | U*  | 0.40                 | U*  | 5                | U  | 1.0              | U  | 0.10             | U |
| 2-Hexanone                                                                     | 50                                            | 36                   | U  | 36               | U | 1.8              | U  | 0.40             | U*  | 0.40                 | U*  | 5                | U  | 1.0              | U  | 0.10             | U |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 34                   | U  | 34               | U | 1.7              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Acetone                                                                        | 50                                            | 38                   | U  | 38               | U | 1.9              | U  | 1.2              | JB* | 1.2                  | JB* | 23               | JB | 1.0              | U  | 0.10             | U |
| Benzene                                                                        | 1                                             | 32                   | U  | 32               | U | 1.6              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Bromodichloromethane                                                           | 50                                            | 30                   | U  | 30               | U | 1.5              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Bromoform                                                                      | 50                                            | 100                  | UJ | 100              | U | 5.0              | UJ | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Bromomethane                                                                   | 5                                             | 86                   | U  | 86               | U | 4.3              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Carbon disulfide                                                               | 60                                            | 42                   | U  | 42               | U | 2.1              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Carbon tetrachloride                                                           | 5                                             | 40                   | U  | 40               | U | 2                | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Chlorobenzene                                                                  | 5                                             | 32                   | U  | 32               | U | 1.6              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.84             | J |
| Chlorobromomethane                                                             | 5                                             | 34                   | U  | 34               | U | 1.7              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Chloroethane                                                                   | 5                                             | 50                   | U  | 50               | U | 2.5              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Chloroform                                                                     | 7                                             | 38                   | U  | 38               | U | 1.9              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Chloromethane                                                                  | 5                                             | 46                   | U  | 46               | U | 2.3              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| cis-1,2-Dichloroethene                                                         | 5                                             | 36                   | U  | 36               | U | 11               |    | 11               | J   | 11                   | J   | 12               | J  | 22               |    | 28               |   |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 28                   | U  | 28               | U | 1.4              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Ethylbenzene                                                                   | 5                                             | 32                   | U  | 32               | U | 1.6              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Methylene chloride                                                             | 5                                             | 26                   | U  | 26               | U | 1.3              | U  | 4.7              | JB  | 3.6                  | JB  | 96               | JB | 13               | JB | 0.10             | U |
| Styrene                                                                        | 5                                             | 34                   | U  | 34               | U | 1.7              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Tetrachloroethene                                                              | 5                                             | 3,300                |    | 2,600            |   | 5,500            | D  | 4,500            |     | 4,600                |     | 5,200            |    | 13,000           |    | 13,000           |   |
| Toluene                                                                        | 5                                             | 32                   | U  | 32               | U | 1.6              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| trans-1,2-Dichloroethene                                                       | 5                                             | 38                   | U  | 38               | U | 1.9              | U  | 0.66             | J   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 32                   | U  | 32               | U | 1.6              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| Trichloroethene                                                                | 5                                             | 38                   | U  | 38               | U | 93               |    | 17               | J   | 17                   | J   | 19               | J  | 140              |    | 91               |   |
| Vinyl chloride                                                                 | 2                                             | 46                   | U  | 46               | U | 2.3              | U  | 0.40             | U   | 0.40                 | U   | 5                | U  | 1.0              | U  | 0.10             | U |
| m+p Xylene                                                                     | 5                                             | NA                   |    | NA               |   | NA               |    | NA               |     | NA                   |     | NA               |    | NA               |    | NA               |   |
| o-Xylene                                                                       | 5                                             | NA                   |    | NA               |   | NA               |    | NA               |     | NA                   |     | NA               |    | NA               |    | NA               |   |
| Total Xylenes                                                                  | 5                                             | 16                   | U  | 0.82             | U | 0.40             | U  | 0.40             | U   | 5                    | U   | 1.0              | U  | 0.10             | U  | 400              | U |



**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2006             |    | 2018             |   | 2016             |    | 2015             |   | 2014             |    | 2013             |   | 2012             |    | 2010             |     |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|----|------------------|---|------------------|----|------------------|---|------------------|----|------------------|---|------------------|----|------------------|-----|
|                                                                                |                                               | FSMW-14B         |    | FSMW-14C         |   | FSMW-14C         |    | FSMW-14C         |   | FSMW-14C         |    | FSMW-14C         |   | FSMW-14C         |    | FSMW-14C         |     |
|                                                                                |                                               | Aug-06           |    | Mar-18           |   | Dec-16           |    | Sep-15           |   | Oct-14           |    | Oct-13           |   | Nov-12           |    | Sep-10           |     |
|                                                                                |                                               | 159-169 feet bgs |    | 239-249 feet bgs |   | 239-249 feet bgs |    | 239-249 feet bgs |   | 239-249 feet bgs |    | 239-249 feet bgs |   | 239-249 feet bgs |    | 239-249 feet bgs |     |
|                                                                                |                                               | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |   | (µg/L)           |    | (µg/L)           |     |
| Analyte                                                                        |                                               |                  |    |                  |   |                  |    |                  |   |                  |    |                  |   |                  |    |                  |     |
| 1,1,1-Trichloroethane                                                          | 5                                             | 400              | U  | 0.10             | U | 0.10             | U  | 2.1              | U | 2.1              | U  | 2.1              | U | 2.1              | U  | 0.91             | J   |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 400              | U  | 0.10             | U | 0.10             | UJ | 1.5              | U | 1.5              | U  | 1.5              | U | 1.5              | U  | 0.10             | U   |
| 1,1,2-Trichloroethane                                                          | 1                                             | 400              | U  | 0.10             | U | 0.10             | U  | 1.9              | U | 1.9              | U  | 1.9              | U | 1.9              | U  | 0.10             | U   |
| 1,1-Dichloroethane                                                             | 5                                             | 400              | U  | 0.97             | J | 0.10             | U  | 1.7              | U | 1.7              | U  | 1.7              | U | 1.7              | U  | 2.0              | J   |
| 1,1-Dichloroethene                                                             | 5                                             | 400              | U  | 4.1              | J | 1.0              | J  | 2.5              | U | 2.5              | U  | 2.5              | U | 2.5              | J  | 3.8              | J   |
| 1,2-Dichloroethane                                                             | 0.6                                           | 400              | U  | 0.10             | U | 0.10             | U  | 0.83             | U | 0.83             | U  | 0.83             | U | 0.83             | U  | 0.10             | U   |
| 1,2-Dichloropropane                                                            | 1                                             | 400              | U  | 0.10             | U | 0.10             | U  | 1.7              | U | 1.7              | U  | 1.7              | U | 1.7              | U  | 0.10             | U   |
| 2-Butanone (MEK)                                                               | 50                                            | 400              | U  | 0.10             | U | 0.10             | UJ | 1.5              | U | 1.5              | U  | 1.5              | U | 1.5              | U  | 0.10             | U*  |
| 2-Hexanone                                                                     | 50                                            | 400              | U  | 0.10             | U | 0.10             | U  | 1.8              | U | 1.8              | U  | 1.8              | U | 1.8              | U  | 0.10             | U   |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 400              | U  | 0.10             | U | 0.10             | U  | 1.7              | U | 1.7              | U  | 1.7              | U | 1.7              | U  | 0.10             | U   |
| Acetone                                                                        | 50                                            | 400              | U  | 0.10             | U | 0.10             | UJ | 1.9              | U | 1.9              | U  | 1.9              | U | 1.9              | U  | 1.2              | JB* |
| Benzene                                                                        | 1                                             | 400              | U  | 0.10             | U | 0.10             | U  | 1.6              | U | 1.6              | U  | 1.6              | U | 1.6              | U  | 0.10             | U   |
| Bromodichloromethane                                                           | 50                                            | 400              | U  | 0.10             | U | 0.10             | U  | 1.5              | U | 1.5              | U  | 1.5              | U | 1.5              | U  | 0.10             | U   |
| Bromoform                                                                      | 50                                            | 400              | U  | 0.10             | U | 0.10             | U  | 5.0              | U | 5.0              | UJ | 5.0              | U | 5.0              | UJ | 0.10             | U   |
| Bromomethane                                                                   | 5                                             | 400              | UJ | 0.10             | U | 0.10             | U  | 4.3              | U | 4.3              | U  | 4.3              | U | 4.3              | U  | 0.10             | U   |
| Carbon disulfide                                                               | 60                                            | 400              | U  | 0.10             | U | 0.10             | U  | 2.1              | U | 2.1              | U  | 2.1              | U | 2.1              | U  | 0.10             | U*  |
| Carbon tetrachloride                                                           | 5                                             | 400              | U  | 5.2              | J | 3.2              | J  | 9.0              | J | 8.1              | J  | 7.6              | J | 12               |    | 18               |     |
| Chlorobenzene                                                                  | 5                                             | 400              | U  | 0.10             | U | 0.10             | U  | 1.6              | U | 1.6              | U  | 1.6              | U | 1.6              | U  | 0.10             | U   |
| Chlorobromomethane                                                             | 5                                             | 400              | U  | 0.10             | U | 0.10             | U  | 1.7              | U | 1.7              | U  | 1.7              | U | 1.7              | U  | 0.10             | U   |
| Chloroethane                                                                   | 5                                             | 400              | UJ | 0.10             | U | 0.10             | U  | 2.5              | U | 2.5              | U  | 2.5              | U | 2.5              | U  | 0.10             | U   |
| Chloroform                                                                     | 7                                             | 400              | U  | 3.3              | J | 1.6              | J  | 3.6              | J | 2.5              | J  | 1.9              | U | 1.9              | U  | 1.4              | J   |
| Chloromethane                                                                  | 5                                             | 400              | U  | 0.10             | U | 0.10             | UJ | 2.3              | U | 2.3              | U  | 2.3              | U | 2.3              | U  | 0.10             | U*  |
| cis-1,2-Dichloroethene                                                         | 5                                             | 400              | U  | 21               |   | 6.4              | J  | 33               |   | 20               |    | 18               |   | 16               |    | 9.9              | J   |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 400              | U  | 0.10             | U | 0.10             | U  | 1.4              | U | 1.4              | U  | 1.4              | U | 1.4              | U  | 0.10             | U   |
| Ethylbenzene                                                                   | 5                                             | 400              | U  | 0.10             | U | 0.10             | U  | 1.6              | U | 1.6              | U  | 1.6              | U | 1.6              | U  | 0.10             | U   |
| Methylene chloride                                                             | 5                                             | 400              | U  | 0.10             | U | 0.10             | U  | 1.3              | U | 1.3              | U  | 1.3              | U | 1.3              | U  | 0.30             | JB  |
| Styrene                                                                        | 5                                             | 400              | U  | 0.10             | U | 0.10             | U  | 1.7              | U | 1.7              | U  | 1.7              | U | 1.7              | U  | 0.10             | U   |
| Tetrachloroethene                                                              | 5                                             | 3,600            |    | 25               |   | 8.5              | J  | 34               |   | 25               |    | 20               |   | 29               |    | 25               | B   |
| Toluene                                                                        | 5                                             | 400              | U  | 0.10             | U | 0.35             | U  | 1.6              | U | 1.6              | U  | 1.6              | U | 1.6              | U  | 0.10             | U   |
| trans-1,2-Dichloroethene                                                       | 5                                             | 400              | U  | 0.64             | J | 0.10             | U  | 1.9              | U | 1.9              | U  | 1.9              | U | 1.9              | U  | 0.15             | J   |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 400              | U  | 0.10             | U | 0.10             | U  | 1.6              | U | 1.6              | U  | 1.6              | U | 1.6              | U  | 0.10             | U   |
| Trichloroethene                                                                | 5                                             | 400              | U  | 130              |   | 44               |    | 190              |   | 140              |    | 120              |   | 130              |    | 130              |     |
| Vinyl chloride                                                                 | 2                                             | 400              | U  | 0.10             | U | 0.10             | U  | 2.3              | U | 2.3              | U  | 2.3              | U | 2.3              | U  | 0.10             | U*  |
| m+p Xylene                                                                     | 5                                             | NA               |    | NA               |   | NA               |    | NA               |   | NA               |    | NA               |   | NA               |    | NA               |     |
| o-Xylene                                                                       | 5                                             | NA               |    | NA               |   | NA               |    | NA               |   | NA               |    | NA               |   | NA               |    | NA               |     |
| Total Xylenes                                                                  | 5                                             | 0.82             | U  | 0.10             | U | 0.10             | U  | 0.82             | U | 0.82             | U  | 0.82             | U | 0.10             | U  | 0.10             | U   |

**Table 4**  
**Historical Groundwater Monitoring Results**

| Sample Year:<br>Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | NYSDEC<br>CLASS GA GW<br>Standard (a)<br>µg/L | 2009             |           |                      |           | 2008             |          | 2007             |          | 2006             |          |
|--------------------------------------------------------------------------------|-----------------------------------------------|------------------|-----------|----------------------|-----------|------------------|----------|------------------|----------|------------------|----------|
|                                                                                |                                               | FSMW-14C         |           | FSMW-14C - Duplicate |           | FSMW-14C         |          | FSMW-14C         |          | FSMW-14C         |          |
|                                                                                |                                               | Sep-09           |           | Sep-09               |           | Sep-08           |          | Aug-07           |          | Aug-06           |          |
|                                                                                |                                               | 239-249 feet bgs |           | 239-249 feet bgs     |           | 239-249 feet bgs |          | 239-249 feet bgs |          | 239-249 feet bgs |          |
|                                                                                |                                               | (µg/L)           |           | (µg/L)               |           | (µg/L)           |          | (µg/L)           |          | (µg/L)           |          |
| Analyte                                                                        |                                               |                  |           |                      |           |                  |          |                  |          |                  |          |
| 1,1,1-Trichloroethane                                                          | 5                                             | <b>0.86</b>      | <b>J</b>  | <b>0.85</b>          | <b>J</b>  | <b>1.3</b>       | <b>J</b> | <b>1.9</b>       | <b>J</b> | <b>3</b>         | <b>J</b> |
| 1,1,2,2-Tetrachloroethane                                                      | 5                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| 1,1,2-Trichloroethane                                                          | 1                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| 1,1-Dichloroethane                                                             | 5                                             | <b>1.8</b>       | <b>J</b>  | <b>1.8</b>           | <b>J</b>  | <b>2.4</b>       | <b>J</b> | <b>3.1</b>       | <b>J</b> | <b>5</b>         | <b>J</b> |
| 1,1-Dichloroethene                                                             | 5                                             | <b>3.2</b>       | <b>J</b>  | <b>3.2</b>           | <b>J</b>  | <b>4.0</b>       | <b>J</b> | <b>5.5</b>       | <b>J</b> | <b>8</b>         | <b>J</b> |
| 1,2-Dichloroethane                                                             | 0.6                                           | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| 1,2-Dichloropropane                                                            | 1                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| 2-Butanone (MEK)                                                               | 50                                            | 0.10             | U         | 0.10                 | U         | 0.10             | UJ       | 0.10             | U        | 10               | U        |
| 2-Hexanone                                                                     | 50                                            | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| 4-Methyl-2-Pentanone (MIBK)                                                    | NC                                            | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Acetone                                                                        | 50                                            | 0.10             | U         | 0.10                 | U         | 0.10             | UJ       | 0.10             | UJ       | 10               | U        |
| Benzene                                                                        | 1                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Bromodichloromethane                                                           | 50                                            | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Bromoform                                                                      | 50                                            | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Bromomethane                                                                   | 5                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Carbon disulfide                                                               | 60                                            | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Carbon tetrachloride                                                           | 5                                             | <b>16</b>        |           | <b>16</b>            | <b>J</b>  | <b>26</b>        |          | <b>33</b>        |          | <b>45</b>        |          |
| Chlorobenzene                                                                  | 5                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Chlorobromomethane                                                             | 5                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Chloroethane                                                                   | 5                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Chloroform                                                                     | 7                                             | <b>1.1</b>       | <b>J</b>  | <b>1</b>             | <b>J</b>  | <b>1.1</b>       | <b>J</b> | <b>1.3</b>       | <b>J</b> | <b>1</b>         | <b>J</b> |
| Chloromethane                                                                  | 5                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| cis-1,2-Dichloroethene                                                         | 5                                             | <b>5.6</b>       | <b>J</b>  | <b>5.5</b>           | <b>J</b>  | <b>7.1</b>       | <b>J</b> | <b>6.2</b>       | <b>J</b> | <b>6</b>         | <b>J</b> |
| cis-1,3-Dichloropropene                                                        | 0.4                                           | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Ethylbenzene                                                                   | 5                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Methylene chloride                                                             | 5                                             | <b>0.4</b>       | <b>JB</b> | <b>0.39</b>          | <b>JB</b> | 0.10             | U        | 0.10             | U        | 10               | U        |
| Styrene                                                                        | 5                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Tetrachloroethene                                                              | 5                                             | <b>21</b>        |           | <b>23</b>            |           | <b>28</b>        |          | <b>37</b>        |          | <b>36</b>        |          |
| Toluene                                                                        | 5                                             | <b>0.11</b>      | <b>J</b>  | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| trans-1,2-Dichloroethene                                                       | 5                                             | <b>0.13</b>      | <b>J</b>  | <b>0.14</b>          | <b>J</b>  | 0.10             | U        | 0.10             | U        | 10               | U        |
| trans-1,3-Dichloropropene                                                      | 0.4                                           | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| Trichloroethene                                                                | 5                                             | <b>90</b>        |           | <b>90</b>            |           | <b>140</b>       |          | <b>160</b>       |          | <b>140</b>       |          |
| Vinyl chloride                                                                 | 2                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |
| m+p Xylene                                                                     | 5                                             | NA               |           | NA                   |           | NA               |          | NA               |          | NA               |          |
| o-Xylene                                                                       | 5                                             | NA               |           | NA                   |           | NA               |          | NA               |          | NA               |          |
| Total Xylenes                                                                  | 5                                             | 0.10             | U         | 0.10                 | U         | 0.10             | U        | 0.10             | U        | 10               | U        |

**Notes:**

(a) New York State Ambient Water Quality Standards and Guidance Values, June 2004

µg/L micrograms per liter

bgs below ground surface

R Rejected

**Bold** Detected Value

**Bold and highlight** Detected value exceeds criteria

U Undetected

J Estimated

J- Estimated and biased low

J+ Estimated and biased high

UJ Undetected and estimated; estimated "J" qualifier added during validation

**Qualifiers used for results prior to Q2 2018:**

D Indicates results are based on a dilution.

B Indicates results are a function of laboratory contamination.

E Estimated result, indicates analyte exceeded instrument calibration range.

**Table 5**  
**Groundwater Monitoring Results - Per- and Polyfluoroalkyl Substances - Third Quarter 2018**

| Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | U.S. EPA Health<br>Advisory<br>(Drinking Water) <sup>(a)</sup><br>(ng/L) | FSMW-1A<br>09/27/2018<br>58-68 feet bgs<br>(ng/L) | FSMW-2A<br>10/01/2018<br>60-70 feet bgs<br>(ng/L) | FSMW-2A - Duplicate<br>10/01/2018<br>60-70 feet bgs<br>(ng/L) | FSMW-4B<br>10/01/2018<br>137-147 feet bgs<br>(ng/L) | FSMW-8A<br>09/27/2018<br>64-74 feet bgs<br>(ng/L) | FSMW-14A<br>09/26/2018<br>119-129 feet bgs<br>(ng/L) |
|----------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| Analyte                                                        |                                                                          |                                                   |                                                   |                                                               |                                                     |                                                   |                                                      |
| 6:2 Fluorotelomer sulfonate (6:2 FTS)                          | -                                                                        | <b>26.6</b> J-                                    | 2.02 UJ                                           | 2.03 UJ                                                       | 1.94 UJ                                             | 0.92 UJ                                           | <b>2.24</b> J-                                       |
| 8:2 Fluorotelomer sulfonate (8:2 FTS)                          | -                                                                        | 0.46 UJ                                           | 1.66 U                                            | 1.85 U                                                        | 1.85 U                                              | 0.52 UJ                                           | 0.47 U                                               |
| N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)       | -                                                                        | 0.57 U                                            | 1.58 U                                            | 1.76 U                                                        | 1.76 U                                              | 0.65 U                                            | 0.58 U                                               |
| N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)      | -                                                                        | 0.37 U                                            | 2.57 U                                            | 2.87 U                                                        | 2.87 U                                              | 0.42 U                                            | 0.38 U                                               |
| Perfluorobutanesulfonic acid (PFBS)                            | -                                                                        | <b>1.01</b> J                                     | <b>1.65</b> J                                     | <b>1.62</b> J                                                 | <b>0.72</b> J                                       | <b>5.76</b>                                       | <b>2.73</b>                                          |
| Perfluorobutanoic acid (PFBA)                                  | -                                                                        | <b>4.07</b> J+                                    | <b>1.13</b> J                                     | <b>1.21</b> J                                                 | <b>7.98</b>                                         | <b>11.9</b> J+                                    | <b>7.41</b> J+                                       |
| Perfluorodecanesulfonic acid (PFDCS)                           | -                                                                        | 0.43 U                                            | 0.27 U                                            | 0.3 U                                                         | 0.3 UJ                                              | 0.49 U                                            | 0.44 U                                               |
| Perfluorodecanoic Acid (PFDA)                                  | -                                                                        | <b>3.28</b>                                       | <b>0.49</b> J                                     | <b>0.54</b> J                                                 | 0.29 U                                              | <b>0.57</b> J                                     | <b>2.77</b>                                          |
| Perfluorododecanoic Acid (PFDoA)                               | -                                                                        | 0.29 U                                            | <b>1.04</b> J                                     | <b>0.84</b> J                                                 | 0.51 U                                              | 0.32 U                                            | 0.29 U                                               |
| Perfluoroheptanesulfonic acid (PFHpS)                          | -                                                                        | 0.67 U                                            | 0.16 U                                            | 0.18 U                                                        | <b>0.45</b> J                                       | 0.76 U                                            | 0.68 U                                               |
| Perfluoroheptanoic Acid (PFHpA)                                | -                                                                        | <b>3.69</b>                                       | <b>1.34</b> J                                     | <b>1.07</b> J                                                 | <b>5.75</b>                                         | <b>12</b>                                         | <b>8.6</b>                                           |
| Perfluorohexanesulfonic acid (PFHXS)                           | -                                                                        | <b>0.82</b> J                                     | 0.14 U                                            | 0.16 U                                                        | <b>5.42</b>                                         | <b>1.2</b> J                                      | 0.22 U                                               |
| Perfluorohexanoic Acid (PFHxA)                                 | -                                                                        | <b>5.65</b>                                       | <b>0.78</b> J                                     | <b>0.89</b> J                                                 | <b>7.12</b>                                         | <b>13.1</b> J+                                    | <b>5.08</b>                                          |
| Perfluorononanoic Acid (PFNA)                                  | -                                                                        | 0.31 U                                            | <b>0.39</b> J                                     | <b>0.51</b> J                                                 | <b>1.28</b> J                                       | <b>3.6</b>                                        | <b>2.06</b>                                          |
| Perfluorooctane sulfonamide (PFOSA)                            | -                                                                        | 0.46 U                                            | 0.29 U                                            | 0.32 U                                                        | 0.32 U                                              | 0.52 U                                            | 0.47 UJ                                              |
| Perfluorooctane sulfonic acid (PFOS)                           | 70                                                                       | <b>7.18</b>                                       | <b>1.38</b> J                                     | <b>1.13</b> J                                                 | <b>6.79</b>                                         | <b>4.15</b>                                       | <b>8.29</b>                                          |
| Perfluorooctanoic Acid (PFOA)                                  | 70                                                                       | <b>6.74</b>                                       | <b>2.44</b>                                       | <b>1.18</b> J                                                 | <b>10.6</b>                                         | <b>19.2</b>                                       | <b>14.8</b>                                          |
| Perfluoropentanoic Acid (PFPeA)                                | -                                                                        | <b>10.9</b> J+                                    | <b>2.37</b>                                       | <b>2.33</b>                                                   | <b>5.97</b>                                         | <b>18.2</b> J+                                    | <b>5.3</b>                                           |
| Perfluorotetradecanoic acid (PFTEDA)                           | -                                                                        | 0.37 U                                            | 0.24 U                                            | 0.27 U                                                        | 0.27 U                                              | 0.42 U                                            | 0.38 U                                               |
| Perfluorotridecanoic acid (PFTTrDA)                            | -                                                                        | 0.2 U                                             | <b>2.84</b>                                       | <b>2.65</b>                                                   | 1.21 U                                              | 0.22 U                                            | 0.2 U                                                |
| Perfluoroundecanoic Acid (PFUnA)                               | -                                                                        | <b>3.55</b>                                       | 0.91 U                                            | 1.02 U                                                        | 1.02 U                                              | 0.23 U                                            | 0.21 U                                               |
| PFOA/PFOS Sum                                                  | 70                                                                       | <b>13.92</b>                                      | <b>3.82</b>                                       | <b>2.31</b>                                                   | <b>17.39</b>                                        | <b>23.35</b>                                      | <b>23.09</b>                                         |

**Notes:**

- (a) 2018 Edition of the Drinking Water Standards and Health Advisories Tables
- Bold** Detected
- U Undetected
- UJ Undetected and estimated
- J Estimated result
- J+ Positive result is estimated due to potential high bias
- J- Positive result is estimated due to potential low bias

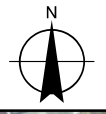
**Table 6**  
**Groundwater Monitoring Results - 1,4-Dioxane - Third Quarter 2018**

| Sample Location:<br>Sample Date:<br>Screen Interval:<br>Units: | U.S. EPA Health<br>Advisory<br>(Drinking Water) <sup>(a)</sup><br>(µg/L) | FSMW-1A<br>09/27/2018<br>58-68 feet bgs<br>(µg/L) |   | FSMW-2A<br>10/01/2018<br>60-70 feet bgs<br>(µg/L) |   | FSMW-2A - Duplicate<br>10/01/2018<br>60-70 feet bgs<br>(µg/L) |   | FSMW-4B<br>10/01/2018<br>137-147 feet bgs<br>(µg/L) |  | FSMW-8A<br>09/27/2018<br>64-74 feet bgs<br>(µg/L) |   | FSMW-14A<br>09/26/2018<br>119-129 feet bgs<br>(µg/L) |  |
|----------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------|---|---------------------------------------------------|---|---------------------------------------------------------------|---|-----------------------------------------------------|--|---------------------------------------------------|---|------------------------------------------------------|--|
| Analyte                                                        |                                                                          |                                                   |   |                                                   |   |                                                               |   |                                                     |  |                                                   |   |                                                      |  |
| 1,4-Dioxane                                                    | 0.35                                                                     | 0.016                                             | U | 0.016                                             | U | 0.016                                                         | U | <b>0.29</b>                                         |  | 0.016                                             | U | <b>0.26</b>                                          |  |

**Notes:**

- (a) 2018 Edition of the Drinking Water Standards and Health Advisories Tables
- Bold** Detected
- U Undetected

## Figures



NOTES:  
GPM - GALLONS PER MINUTE  
BGS - BELOW GROUND SURFACE  
COORDINATE SYSTEM: NAD 1983  
STATE PLANE NEW YORK LONG ISLAND FEET

FIGURE 1  
MONITORING AND EXTRACTION WELLS  
FROST STREET SITES  
WESTBURY, NEW YORK

LEGEND

- ◆ ACTIVE MONITORING WELL - ANNUALLY (5TH QUARTER)
- ◆ ACTIVE MONITORING WELL - QUARTERLY
- ◆ EXTRACTION WELLS
- ◆ IDLE MONITORING WELL

NAD 1983 STATE PLANE  
NEW YORK LONG ISLAND FEET  
0 100 200  
SCALE IN FEET

REQUESTED BY: AS  
DRAWN BY: MS  
DATE: 8/29/2018  
PROJECT: 0888820265

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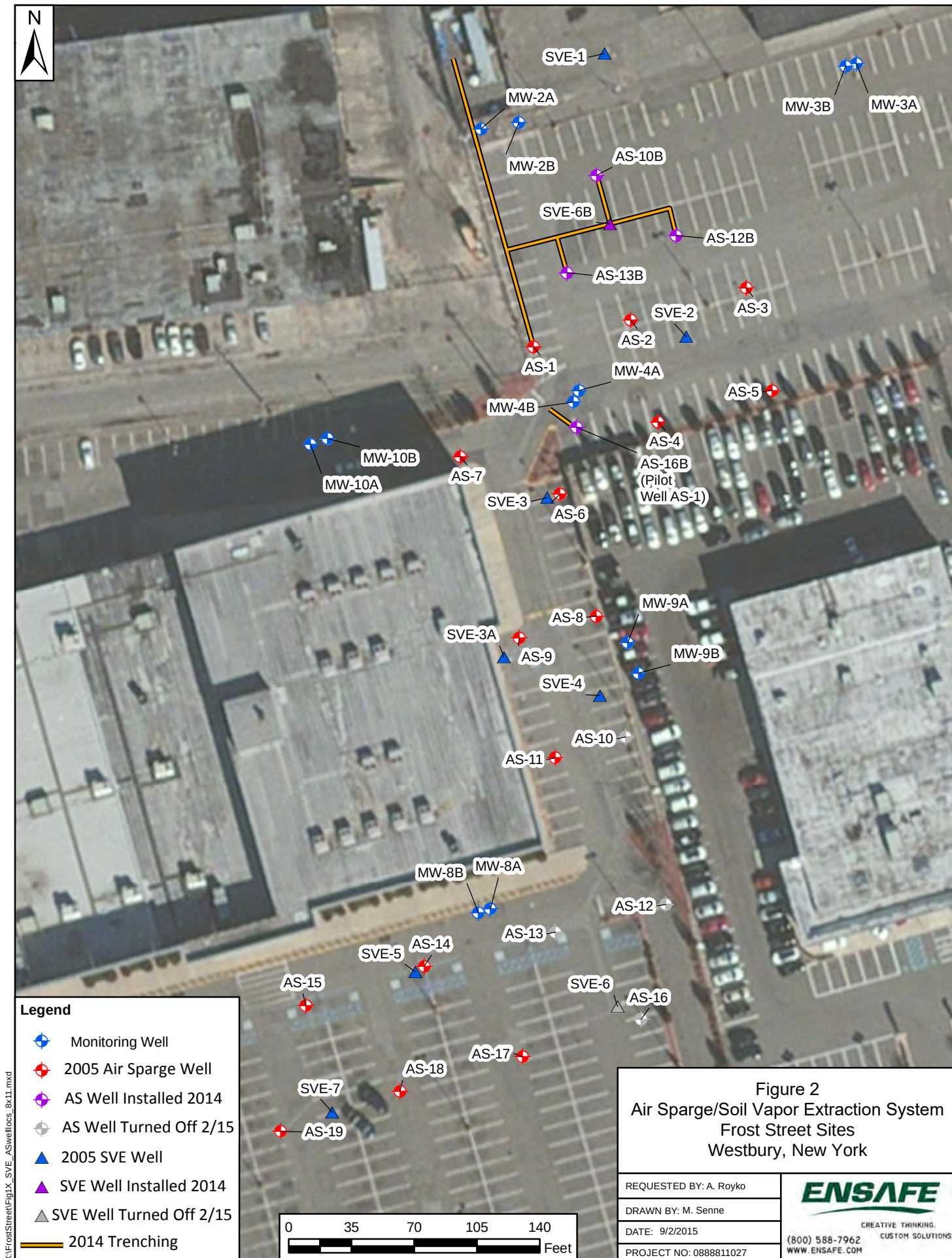






FIGURE 3  
POTENTIOMETRIC SURFACE MAP  
GROUP A WELLS (58-74 FEET BGS)  
THIRD QUARTER 2018  
FROST STREET SITES  
WESTBURY, NEW YORK

LEGEND

- MONITORING WELL (GROUP A)
- MONITORING WELL (NOT USED FOR CONTOURING)
- GROUP A POTENTIOMETRIC CONTOUR (DASHED WHERE INFERRED)

NAD 1983 STATE PLANE  
NEW YORK LONG ISLAND FEET  
0 100 200  
SCALE IN FEET

REQUESTED BY: GH  
DRAWN BY: MS  
DATE: 12/11/2018  
PROJECT: 0888820265

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Source: Google Earth Pro Imagery - 10/01/2017



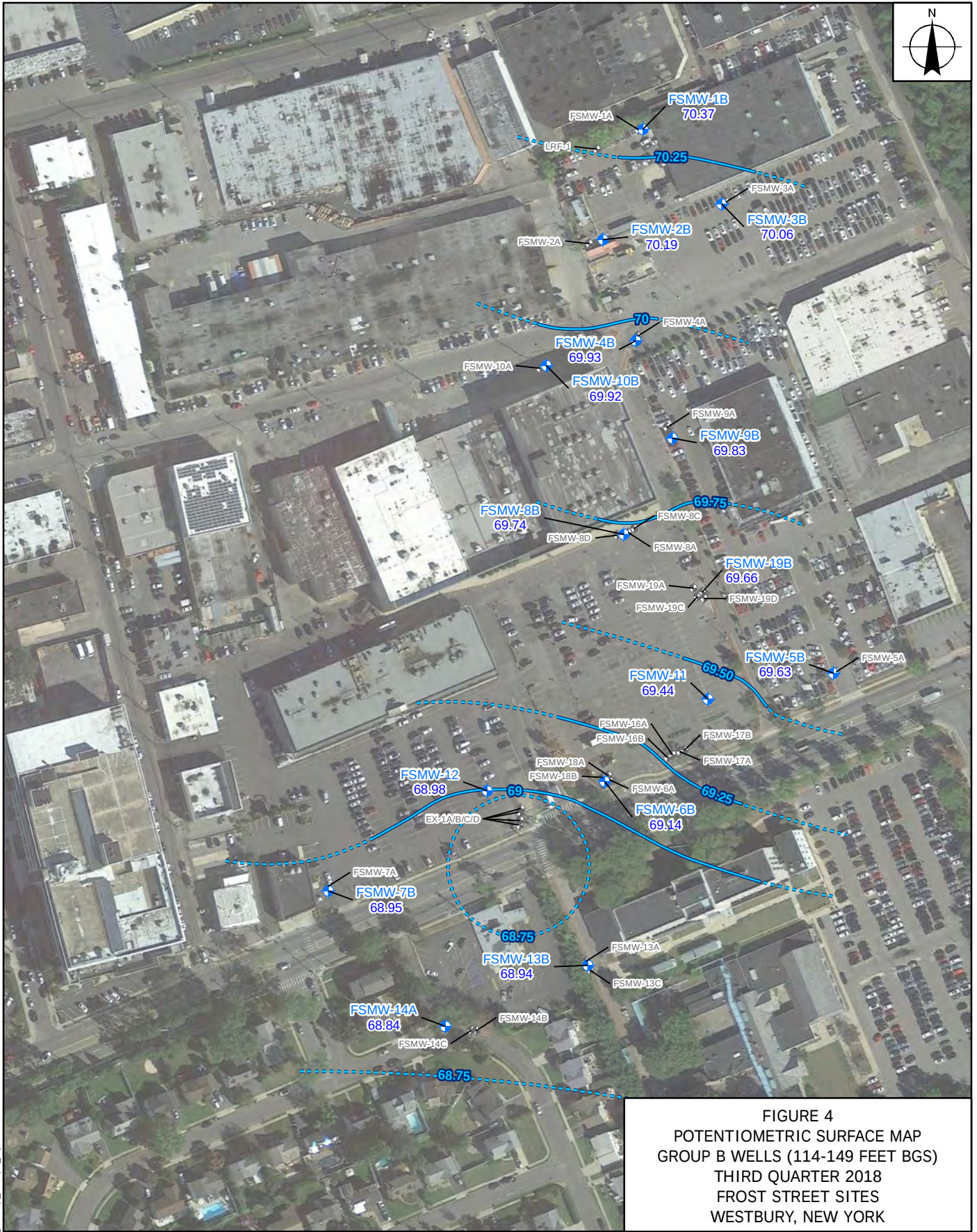


FIGURE 4  
POTENTIOMETRIC SURFACE MAP  
GROUP B WELLS (114-149 FEET BGS)  
THIRD QUARTER 2018  
FROST STREET SITES  
WESTBURY, NEW YORK

LEGEND



MONITORING WELL (GROUP B)



MONITORING WELL  
(NOT USED FOR CONTOURING)

GROUP B POTENTIOMETRIC CONTOUR  
(DASHED WHERE INFERRED)

NAD 1983 STATE PLANE  
NEW YORK LONG ISLAND FEET

0 100 200

SCALE IN FEET

REQUESTED BY: GH

DRAWN BY: MS

DATE: 12/11/2018

PROJECT: 0888820265

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Source: Google Earth Pro Imagery - 10/01/2017

X:\FrostStreet\Figure4\_PotMap\_GroupB\_3Q2018.mxd

## Appendix

# DATA USABILITY SUMMARY REPORT THIRD QUARTER 2018 SAMPLING EVENT

FROST STREET SITES  
WESTBURY, NEW YORK

NYSDEC SITE NO. 1-30043-I, -L, -M

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## **1.0 INTRODUCTION**

This data usability summary report presents the results for groundwater samples collected during the third quarter groundwater sampling activities at the Frost Street Sites in Westbury, New York. Samples collected and analyzed for volatile organic compounds (VOCs) were done so in accordance with the Quality Assurance Project Plan (QAPP) included in the *Final Engineering Report and Operation, Maintenance and Monitoring Plan for Soil Vapor Extraction/Air Sparging Remedial System and Soil Remediation Measures* (Walden, June 2006). Samples collected and analyzed for emerging contaminants: 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS) were done so in accordance with the *Quality Assurance Project Plan, Emerging Contaminant Sampling, Frost Street Sites, NYSDEC Site No. 1-30043 I, L, M, Westbury, New York* (EnSafe, August 2018).

Data were evaluated independently from the laboratory to assess data quality. Samples discussed in this report were collected between September 26 and October 1, 2018. TestAmerica Laboratories Inc. in Edison, New Jersey (New York State Department of Health [NYSDOH], Environmental Laboratory Approval Program [ELAP] certificate #11452) analyzed the VOC samples, and TestAmerica Laboratories Inc. in South Burlington, Vermont (NYSDOH ELAP certificate #10391) analyzed the 1,4-dioxane and PFAS samples. Tina Clemmey, EnSafe Inc. chemist, reviewed the data package discussed in this report.

The quality assurance criteria used to assess all data were established by the analytical methods, consistent with the measurement performance criteria provided in the QAPP. Data validation activities were conducted using the QAPP measurement performance criteria and the following guidance documents:

- *National Functional Guidelines for Organic Superfund Methods Data Review*. (United States Environmental Protection [U.S. EPA], January 2017).
- *Hazardous Waste Support Section, SOP NO. HW-24 Revision 4, Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS), SW-846 Method 8260B and 8260C*. (U.S. EPA Region 2, September 2014).
- Laboratory standard operating procedure (SOP) *Per- and Polyfluorinated Substances (PFAS) in Water, Soils, Sediments and Tissue, [Method 537 (Modified), Method PFAS by LCMSMS Compliant with QSM 5.1 Table B-15]* (TestAmerica, August 2018).



Samples were analyzed for the following:

- VOCs by gas chromatography/mass spectrometry via SW-846 Method 8260C.
- 1-4-Dioxane by GC/MS via SW-846 Method 8270D using selective ion monitoring (SIM),
- PFAS by liquid chromatography/tandem mass spectrometry (LC/MS/MS) via Modified U.S. EPA Method 537.

Data packages were submitted in accordance with the New York State Department of Environmental Conservation (NYSDEC) Category B Deliverables requirements. U.S. EPA Stage 4 electronic and manual data validation, consisting of sample results, quality control (QC) summary information, and raw data was performed. A minimum of 10% of the raw data were reviewed during the validation process and no anomalies were observed. PFAS chromatograms were checked for the following: manual and automated peak integration, baseline, and interferences; minimum signal to noise mass spectra ratios; and retention times or relative retention times.

When the QC parameters did not fall within the specific method or data review guidelines, the data reviewer annotated or “flagged” the corresponding compounds. Table A-1 in Attachment A provides analytical parameters for each sample and cross-references between laboratory and field sample identifications.

## **2.0 REVIEW ELEMENTS**

Analytical data were reviewed for the following QC elements:

- |                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| * Data completeness                   | Isotope dilution extracted internal standards (PFAS)  |
| Sample preservation and holding times | * Organic surrogates                                  |
| * Instrument tuning                   | Laboratory control samples (LCS)                      |
| * Initial calibration                 | Matrix spike/matrix spike duplicate (MS/MSD)          |
| * Initial calibration                 | Blank contamination (laboratory, trip, and equipment) |
| Continuing calibration verification   | * Field duplicate precision                           |
| * Internal standards                  |                                                       |

Acceptable data parameters for which all criteria were met or no qualification was performed, as indicated above with an asterisk (\*), are not discussed further.

The following flags were used by the laboratory to annotate results:



*Laboratory Qualifiers*

- B** = The analyte was detected in the laboratory method blank.
- H** = The holding time was exceeded.
- J** = Estimated - Result is less than the reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.
- U** = Undetected - The analyte was undetected above the MDL.

When the QC parameters did not fall within the specific method or data review guidelines, the data reviewer annotated or “flagged” the corresponding compounds. Flags that may be used during data review are as follows:

*Data Review Qualifiers*

- U** = **Undetected** — The analyte was undetected above the MDL or was qualified as undetected during blank examination; the associated value presented is the MDL.
- J** = **Estimated Value** — One or more QC parameters were outside control limits or the concentration of the analyte was above the MDL, but less than the RL.
- UJ** = **Undetected and Estimated** — The parameter was analyzed but undetected and was estimated because at least one QC parameter was outside control limits.
- J+** = **Estimated and Biased High** — Bias in sample result is likely to be high due to quality control outlier.
- J-** = **Estimated and Biased Low** — Bias in sample result is likely to be low due to quality control outlier.
- R** = **Rejected** — The data are unusable. The same results are rejected due to serious deficiencies in meeting quality control criteria.
- N** = **Presumptive Evidence** — The analysis indicates the presence of an analyte that has been “tentatively identified.”
- NJ** = **Presumptive Evidence, Estimated** — The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate quantity.

### 3.0 DATA EVALUATION

#### 3.1 Sample Preservation and Holding Times

All samples were received by the laboratory with the proper documentation and preservation, all coolers were received by the laboratory at temperature below 6 degrees Celsius, and all samples were prepared and analyzed within technical holding time requirements with the following exceptions: Several PFAS samples were re-analyzed/re-extracted outside holding time due to method blank and suspected sample contamination for fluorotelomer sulfonate (6:2 FTS). The original run was reported for all PFAS analytes except for fluorotelomer sulfonate (6:2 FTS). Professional judgment was used to report the results for fluorotelomer sulfonate (6:2 FTS) in the re-extracted/re-analyzed run because



these results were free from contamination. Both sets of data were reported in the laboratory reports. Table 3-1 shows holding time outliers and the qualifications applied to the data.

| Table 3-1<br>Holding Time Outliers |                   |         |             |           |               |                            |                    |       |
|------------------------------------|-------------------|---------|-------------|-----------|---------------|----------------------------|--------------------|-------|
| Method                             | Sample            | Analyte | Sample Date | Prep Date | Date Analyzed | Hold Time Prep/Anal (Days) | Past Hold Time     | Flags |
| SW8260                             | FSMW-14A 09262018 | VOCs    | 09/26/18    | NA        | 10/10/2018    | 14                         | 3 hours, 2 minutes | J-/UJ |
| SW8260                             | FSMW-14B 09262018 | VOCs    | 09/26/18    | NA        | 10/10/2018    | 14                         | 15 minutes         | J-/UJ |
| SW8260                             | FSMW-8A 09272018  | VOCs    | 09/27/18    | NA        | 10/11/2018    | 14                         | 49 minutes         | J-/UJ |
| SW8260                             | TB1 09262018      | VOCs    | 09/28/18    | NA        | 10/10/18      | 7<br>(Unpreserved)         | 5 days             | J-/UJ |
| 537 Mod                            | DUP1 10012018     | 6:2 FTS | 10/01/18    | 10/17/18  | 10/19/18      | 14 / 40                    | 2 Days (prep)      | J-/UJ |
| 537 Mod                            | EB4 10012018      | 6:2 FTS | 10/01/18    | 10/17/18  | 10/19/18      | 14 / 40                    | 2 Days (prep)      | J-/UJ |
| 537 Mod                            | FSMW-2A 10012018  | 6:2 FTS | 10/01/18    | 10/17/18  | 10/19/18      | 14 / 40                    | 2 Days (prep)      | J-/UJ |
| 537 Mod                            | FSMW-4B 10012018  | 6:2 FTS | 10/01/18    | 10/17/18  | 10/19/18      | 14 / 40                    | 2 Days (prep)      | J-/UJ |

**Notes:**

Prep = Preparation  
Anal = Analysis  
NA = Not applicable  
J- = Positive result was qualified as estimated due to potential low bias  
UJ = Undetected result was qualified as estimated due to potential low bias

### 3.2 Continuing Calibration Verification

Continuing calibration verification (CCV) standards are used to verify that the instrument response is reliable and has not changed significantly from the initial calibration curve. If the percent difference (%D) is close to the known concentrations, the reported analyte concentrations are assumed to be accurate. CCV %D outliers and qualified results are summarized in Table 3-2.

| Table 3-1<br>Continuing Calibration Verification Outliers |                           |               |         |       |       |                    |
|-----------------------------------------------------------|---------------------------|---------------|---------|-------|-------|--------------------|
| Calibration ID                                            | Analyte                   | Instrument ID | Column  | % D   | Flags | Associated Samples |
| CCVIS 460-558952                                          | 1,1,2,2-Tetrachloroethane | CVOAMS8       | Rtx-624 | -20.8 | UJ    | FSMW-14A 09262018  |
|                                                           |                           |               |         |       |       | FSMW-14B 09262018  |
| CCVIS 460-558952                                          | trans-1,3-Dichloropropene | CVOAMS8       | Rtx-624 | -20.2 | J/UJ  | FSMW-14A 09262018  |
|                                                           |                           |               |         |       |       | FSMW-14B 09262018  |
| CCVIS 460-558952                                          | Chloromethane             | CVOAMS8       | Rtx-624 | -21.5 | J/UJ  | FSMW-14A 09262018  |
|                                                           |                           |               |         |       |       | FSMW-14B 09262018  |
| CCVIS 460-559112                                          | Chloromethane             | CVOAMS8       | Rtx-624 | -20.7 | J/UJ  | FSMW-2B 09282018   |
| CCVIS 460-559112                                          | Chlorobromomethane        | CVOAMS8       | Rtx-624 | 20.7  | J/UJ  | FSMW-2B 09282018   |
| CCVIS 460-460-559508                                      | Chloromethane             | CVOAMS15      | DB-624  | -22   | J/UJ  | FSMW-4B 10012018   |
| CCVIS 460-460-559508                                      | Chloroethane              | CVOAMS15      | DB-624  | 52.9* | J/UJ  | FSMW-4B 10012018   |
| CCVIS 460-559607                                          | Chloromethane             | CVOAMS15      | DB-624  | -25.4 | J/UJ  | TB2 10012018       |
|                                                           |                           |               |         |       |       | FSMW-2A 10012018   |
|                                                           |                           |               |         |       |       | DUP1 10012018      |
|                                                           |                           |               |         |       |       | EB4 10012018       |



**Notes:**

ID = Identification  
%D = Percent difference  
UJ = Undetected result was qualified as estimated due to calibration outlier.

### 3.3 Isotope dilution extracted internal standards (PFAS)

Extracted internal standard analytes (EISAs), isotopically similar to the analyte of interest, are added to each sample prior to sample preparation to assess the effectiveness of the extraction. Sample results with percent recoveries (%Rs) below the expected range for ESIAs of 50% to 150% may be biased high while those above the limit may be biased low. Undetected results with high bias did not require sample qualification. Table 3-3 summarizes EISA %R outliers where samples were qualified during validation.

| Table 3-2<br>Extracted Internal Standard Outliers |                   |              |            |     |        |     |      |
|---------------------------------------------------|-------------------|--------------|------------|-----|--------|-----|------|
| SDG                                               | Sample            | Sample ID    | EISA       | %R  | Limits |     | Flag |
| 4601657691                                        | FSMW-14A 09262018 | 460-165769-1 | M2-6:2 FTS | 169 | 50     | 150 | J-   |
| 4601657691                                        | FSMW-14A 09262018 | 460-165769-1 | 13C4 PFBA  | 43  | 50     | 150 | J+   |
| 4601657691                                        | FSMW-1A 09272018  | 460-165769-7 | M2-6:2 FTS | 201 | 50     | 150 | J-   |
| 4601657691                                        | FSMW-1A 09272018  | 460-165769-7 | M2-8:2 FTS | 166 | 50     | 150 | UJ   |
| 4601657691                                        | FSMW-1A 09272018  | 460-165769-7 | 13C4 PFBA  | 29  | 50     | 150 | J+   |
| 4601657691                                        | FSMW-1A 09272018  | 460-165769-7 | 13C5 PFPeA | 41  | 50     | 150 | J+   |
| 4601657691                                        | FSMW-8A 09272018  | 460-165769-6 | M2-6:2 FTS | 217 | 50     | 150 | UJ   |
| 4601657691                                        | FSMW-8A 09272018  | 460-165769-6 | M2-8:2 FTS | 209 | 50     | 150 | UJ   |
| 4601657691                                        | FSMW-8A 09272018  | 460-165769-6 | 13C2 PFHxA | 45  | 50     | 150 | J+   |
| 4601657691                                        | FSMW-8A 09272018  | 460-165769-6 | 13C4 PFBA  | 22  | 50     | 150 | J+   |
| 4601657691                                        | FSMW-8A 09272018  | 460-165769-6 | 13C5 PFPeA | 39  | 50     | 150 | J+   |

**Notes:**

SDG = Sample delivery group  
ID = Identification  
EISA = Extracted internal standard analyte  
%R = Percent recovery  
UJ = Undetected result is estimated due to potential low bias  
J- = Positive result is estimated due to potential low bias  
J+ = Positive result is estimated due to potential high bias

### 3.4 Laboratory Control Sample

The LCS %R results are used to monitor the overall performance of each step during analysis, including sample preparation. The laboratory analyzed LCSs in duplicate when MS/MSDs were not reported in individual batches. In these instances, the laboratory determined precision between the duplicated values. Undetected results with high bias did not require sample qualification. Tetrachloroethene had a high LCS %R for sample FSMW-2B 09282018; therefore, the positive result was estimated “J+” due to potential high bias.



### 3.5 Matrix Spike/Matrix Spike Duplicates

MS/MSDs are generated to provide information about the effect of each sample matrix on the sample preparation and the measurement methodology. MS/MSD %Rs assess the effect of the sample matrix on the accuracy of the analytical results. %Rs above the laboratory control limit could indicate a potential high result bias, while %Rs below QC limits could indicate a potential low result bias. The relative percent difference (RPD) between the MS and MSD results is evaluated to assess sample precision. All RPDs were within QC limits. Perfluorodecanesulfonic acid (PFDS) had a MSD %R of 66% which was below the acceptable limit of 68-128% for FSMW-4B 10012018. Therefore, the undetected PFDS result was qualified as estimated “UJ” in FSMW-4B 10012018 and may be biased low. MS/MSD outliers that did not require sample qualification for the following reasons are not shown in this table: positive results greater than four times the spike amount and undetected results with high bias/RPDs.

### 3.6 Blank Contamination (laboratory, trip, and equipment)

Equipment, trip, and laboratory blanks were analyzed to assess contamination imparted by sample preparation and/or analysis. All results associated with a particular blank were evaluated to determine whether there was an inherent variability in the data, or if a problem was an isolated occurrence that did not affect the data. All trip blanks were free from contamination. Table 3-6 shows analytes detected in the equipment and laboratory blanks, along with the qualifications performed. No qualification was applied to sample results associated with a contamination blank that was either undetected or above the sample limit of quantitation.

| Table 3-6<br>Blank Contamination Outliers |         |                   |                                      |        |             |          |                                   |
|-------------------------------------------|---------|-------------------|--------------------------------------|--------|-------------|----------|-----------------------------------|
| SDG                                       | Method  | Blank ID          | Analyte                              | Result | Blank Units | Blank RL | Samples Qualified "U"             |
| 4601657691                                | 537_Mod | EB1 092618        | Perfluoroundecanoic acid (PFUnA)     | 0.24   | ng/l        | 1.87     | FSMW-14A 09262018                 |
| 4601657691                                | 537_Mod | FB1 09262018      | Perfluorohexanesulfonic acid (PFHxS) | 0.32   | ng/l        | 1.88     | FSMW-14A 09262018                 |
| 4601657691                                | 537_Mod | MB 200-134904/1-A | Perfluoroundecanoic acid (PFUnA)     | 0.293  | ng/l        | 2        | FSMW-8A 09272018                  |
| 4601659161                                | 537_Mod | MB 320-250651/1-A | Perfluorohexanesulfonic acid (PFHxS) | 0.32   | ng/l        | 2        | DUP1 10012018<br>FSMW-2A 10012018 |
| 4601659161                                | 537_Mod | MB 320-250651/1-A | Perfluorotetradecanoic acid (PFTeA)  | 0.304  | ng/l        | 2        | DUP1 10012018<br>FSMW-2A 10012018 |

**Notes:**

SDG = Sample delivery group  
ID = Identification  
RL = Reporting limit  
ng/L = Nanograms per liter  
U = Undetected



#### 4.0 Elevated Reporting Limits

As shown in Table 4-1, the following samples were diluted to bring the concentration of VOC target analytes within the calibration range. Per the QAPP, the undetected results were reported to the method detection limit (MDL). The MDLs were elevated and adjusted accordingly to account for sample dilution.

| Table 4-1<br>Result Flagging Codes |               |                 |
|------------------------------------|---------------|-----------------|
| Sample ID                          | Laboratory ID | Dilution Factor |
| FSMW-14A 09262018                  | 460-165769-1  | 20X             |
| FSMW-14B 09262018                  | 460-165769-2  | 5X              |
| FSMW-2A 10012018                   | 460-165916-2  | 2X              |
| DUP1 10012018                      | 460-165916-3  | 2X              |

#### 5.0 OVERALL ASSESSMENT

Data from the groundwater sampling activities at the Frost Street sites, Westbury, New York, were reviewed independently from the laboratory to assess data quality. When the parameters did not fall within the specific method or data review guidelines, the data evaluator annotated or “flagged” the corresponding compounds. During the data review and qualification process, both the initial and re-analyzed results were assessed for usability. When a sample was analyzed multiple times, the data reviewer chose the best run reported between the two re-analyzed samples and qualified the values accordingly. Some results were qualified as estimated (J-flag) and may be biased high or low; however, these results are usable to evaluate site conditions and performance of on-site remedial systems at the site according to United States Environmental Protection Agency guidelines

Table 5-1 shows final data review qualifiers used to describe results and how they should be interpreted by the end data user. Table B-1 in Attachment B presents final results after data review and Attachment C contains the laboratory data deliverables packages for samples discussed in this report.

| Table 5-1<br>Result Flagging Codes |                          |                                  |                |                       |
|------------------------------------|--------------------------|----------------------------------|----------------|-----------------------|
| Data Qualifier                     | Qualifier Definition     | Interpret Result As a Detection? | Result Usable? | Potential Result Bias |
| no qualifier                       | Acceptable               | Yes                              | Yes            | None expected         |
| J                                  | Estimated                | Yes                              | Yes            | High or Low           |
| J+                                 | Estimated                | Yes                              | Yes            | High                  |
| J-                                 | Estimated                | Yes                              | Yes            | Low                   |
| U                                  | Undetected               | No                               | Yes            | None expected         |
| UJ                                 | Undetected and Estimated | No                               | Yes            | High or Low           |
| UR                                 | Undetected and Rejected  | No                               | No             | Low and Unusable      |



**Attachment A**  
**Sample and Analysis Summary**

| Table A-1<br>Sample and Analysis Summary |                       |                           |             |                               |         |             |         |
|------------------------------------------|-----------------------|---------------------------|-------------|-------------------------------|---------|-------------|---------|
| Sample Delivery Group                    | Sample Identification | Laboratory Identification | Sample Date | Sample Type                   | SW8260C | SW8270D SIM | 537 Mod |
| 4601657691                               | FSMW-14A 09262018     | 460-165769-1              | 9/26/2018   | Groundwater                   | X       | X           | X       |
| 4601657691                               | FSMW-14B 09262018     | 460-165769-2              | 9/26/2018   | Groundwater                   | X       |             |         |
| 4601657691                               | FSMW-13A 09262018     | 460-165769-3              | 9/26/2018   | Groundwater                   | X       |             |         |
| 4601657691                               | EB1 092618            | 460-165769-4              | 9/26/2018   | Equipment Blank               | X       | X           | X       |
| 4601657691                               | FB1 09262018          | 460-165769-5              | 9/26/2018   | Field Blank                   | X       | X           | X       |
| 4601657691                               | FSMW-8A 09272018      | 460-165769-6              | 9/27/2018   | Groundwater                   | X       | X           | X       |
| 4601657691                               | FSMW-1A 09272018      | 460-165769-7              | 9/27/2018   | Groundwater                   | X       | X           | X       |
| 4601657691                               | EB2 09272018          | 460-165769-8              | 9/27/2018   | Equipment Blank               | X       | X           | X       |
| 4601657691                               | FB2 09272018          | 460-165769-9              | 9/27/2018   | Field Blank                   | X       | X           | X       |
| 4601657691                               | FSMW-4A 09282018      | 460-165769-10             | 9/28/2018   | Groundwater                   | X       |             |         |
| 4601657691                               | FSMW-2B 09282018      | 460-165769-11             | 9/28/2018   | Groundwater                   | X       |             |         |
| 4601657691                               | EB3 09282018          | 460-165769-12             | 9/28/2018   | Equipment Blank               | X       |             |         |
| 4601657691                               | FB3 09282018          | 460-165769-13             | 9/28/2018   | Field Blank                   | X       |             |         |
| 4601657691                               | TB1 09262018          | 460-165769-14             | 9/28/2018   | Trip Blank                    | X       |             |         |
| 4601659161                               | FSMW-4B 10012018      | 460-165916-1              | 10/1/2018   | Groundwater                   | X       | X           | X       |
| 4601659161                               | FSMW-2A 10012018      | 460-165916-2              | 10/1/2018   | Groundwater                   | X       | X           | X       |
| 4601659161                               | DUP1 10012018         | 460-165916-3              | 10/1/2018   | Duplicate of FSMW-2A 10012018 | X       | X           | X       |
| 4601659161                               | EB4 10012018          | 460-165916-4              | 10/1/2018   | Equipment Blank               | X       | X           | X       |
| 4601659161                               | TB2 10012018          | 460-165916-5              | 10/1/2018   | Trip Blank                    | X       |             |         |

**Notes:**

SW8260C = Target compound list volatile organic compounds via SW846 Method 8260C  
SW8270D\_SIM = 1,4-Dioxane via SW846 Method 8270D using selective ion monitoring  
537\_Mod = Perfluorinated Alkyl Substances by TestAmerica Laboratories using standard operating procedure *Per- and Polyfluorinated Substances in Water, Soils, Sediments and Tissue [Method 537 (Modified), Method PFAS by LCMSMS Compliant with QSM 5.1 Table B-15]*



**Attachment B**  
**Final Results after Data Review**

**Table B-1**  
**Groundwater Sample Final Results after Data Review**

| Sample Delivery Group<br>Lab ID<br>Sample ID<br>Sample Date<br>Sample Type |                             |            |       | 4601657691<br>460-165769-1<br>FSMW-14A 09262018<br>9/26/2018<br>Groundwater |            |     | 4601657691<br>460-165769-2<br>FSMW-14B 09262018<br>9/26/2018<br>Groundwater |            |     | 4601657691<br>460-165769-3<br>FSMW-13A 09262018<br>9/26/2018<br>Groundwater |            |    | 4601657691<br>460-165769-6<br>FSMW-8A 09272018<br>9/27/2018<br>Groundwater |            |    |
|----------------------------------------------------------------------------|-----------------------------|------------|-------|-----------------------------------------------------------------------------|------------|-----|-----------------------------------------------------------------------------|------------|-----|-----------------------------------------------------------------------------|------------|----|----------------------------------------------------------------------------|------------|----|
| Method                                                                     | Analyte                     | CAS No     | Units | Result                                                                      | Final Qual | RC  | Result                                                                      | Final Qual | RC  | Result                                                                      | Final Qual | RC | Result                                                                     | Final Qual | RC |
| SW8260C                                                                    | 1,1,1-Trichloroethane       | 71-55-6    | µg/L  | 4.8                                                                         | UJ         | h   | 1.2                                                                         | UJ         | h   | 0.24                                                                        | U          |    | 0.24                                                                       | UJ         | h  |
| SW8260C                                                                    | 1,1,2,2-Tetrachloroethane   | 79-34-5    | µg/L  | 7.3                                                                         | UJ         | h,c | 1.8                                                                         | UJ         | h,c | 0.37                                                                        | U          |    | 0.37                                                                       | UJ         | h  |
| SW8260C                                                                    | 1,1,2-Trichloroethane       | 79-00-5    | µg/L  | 8.7                                                                         | UJ         | h   | 2.2                                                                         | UJ         | h   | 0.43                                                                        | U          |    | 0.43                                                                       | UJ         | h  |
| SW8260C                                                                    | 1,1-Dichloroethane          | 75-34-3    | µg/L  | 5.3                                                                         | UJ         | h   | 1.3                                                                         | UJ         | h   | 0.26                                                                        | U          |    | 0.26                                                                       | UJ         | h  |
| SW8260C                                                                    | 1,1-Dichloroethene          | 75-35-4    | µg/L  | 2.3                                                                         | UJ         | h   | 0.59                                                                        | UJ         | h   | 0.12                                                                        | U          |    | 0.12                                                                       | UJ         | h  |
| SW8260C                                                                    | 1,2-Dichloroethane          | 107-06-2   | µg/L  | 8.6                                                                         | UJ         | h   | 2.2                                                                         | UJ         | h   | 0.43                                                                        | U          |    | 0.43                                                                       | UJ         | h  |
| SW8260C                                                                    | 1,2-Dichloropropane         | 78-87-5    | µg/L  | 7.1                                                                         | UJ         | h   | 1.8                                                                         | UJ         | h   | 1.2                                                                         |            |    | 0.35                                                                       | UJ         | h  |
| SW8260C                                                                    | 2-Butanone (MEK)            | 78-93-3    | µg/L  | 37                                                                          | UJ         | h   | 9.3                                                                         | UJ         | h   | 1.9                                                                         | U          |    | 1.9                                                                        | UJ         | h  |
| SW8260C                                                                    | 2-Hexanone                  | 591-78-6   | µg/L  | 58                                                                          | UJ         | h   | 15                                                                          | UJ         | h   | 2.9                                                                         | U          |    | 2.9                                                                        | UJ         | h  |
| SW8260C                                                                    | 4-Methyl-2-Pentanone (MIBK) | 108-10-1   | µg/L  | 55                                                                          | UJ         | h   | 14                                                                          | UJ         | h   | 2.7                                                                         | U          |    | 2.7                                                                        | UJ         | h  |
| SW8260C                                                                    | Acetone                     | 67-64-1    | µg/L  | 100                                                                         | UJ         | h   | 25                                                                          | UJ         | h   | 5                                                                           | U          |    | 5                                                                          | UJ         | h  |
| SW8260C                                                                    | Benzene                     | 71-43-2    | µg/L  | 8.6                                                                         | UJ         | h   | 2.1                                                                         | UJ         | h   | 0.43                                                                        | U          |    | 0.43                                                                       | UJ         | h  |
| SW8260C                                                                    | Bromodichloromethane        | 75-27-4    | µg/L  | 6.9                                                                         | UJ         | h   | 1.7                                                                         | UJ         | h   | 0.34                                                                        | U          |    | 0.34                                                                       | UJ         | h  |
| SW8260C                                                                    | Bromoform                   | 75-25-2    | µg/L  | 11                                                                          | UJ         | h   | 2.7                                                                         | UJ         | h   | 0.54                                                                        | U          |    | 0.54                                                                       | UJ         | h  |
| SW8260C                                                                    | Bromomethane                | 74-83-9    | µg/L  | 20                                                                          | UJ         | h   | 5                                                                           | UJ         | h   | 1                                                                           | U          |    | 1                                                                          | UJ         | h  |
| SW8260C                                                                    | Carbon disulfide            | 75-15-0    | µg/L  | 3.1                                                                         | UJ         | h   | 0.78                                                                        | UJ         | h   | 0.16                                                                        | U          |    | 0.16                                                                       | UJ         | h  |
| SW8260C                                                                    | Carbon tetrachloride        | 56-23-5    | µg/L  | 4.2                                                                         | UJ         | h   | 1                                                                           | UJ         | h   | 0.21                                                                        | U          |    | 0.21                                                                       | UJ         | h  |
| SW8260C                                                                    | Chlorobenzene               | 108-90-7   | µg/L  | 7.5                                                                         | UJ         | h   | 1.9                                                                         | UJ         | h   | 0.38                                                                        | U          |    | 0.38                                                                       | UJ         | h  |
| SW8260C                                                                    | Chlorobromomethane          | 74-97-5    | µg/L  | 8.2                                                                         | UJ         | h   | 2.1                                                                         | UJ         | h   | 0.41                                                                        | U          |    | 0.41                                                                       | UJ         | h  |
| SW8260C                                                                    | Chloroethane                | 75-00-3    | µg/L  | 6.4                                                                         | UJ         | h   | 1.6                                                                         | UJ         | h   | 0.32                                                                        | U          |    | 0.32                                                                       | UJ         | h  |
| SW8260C                                                                    | Chloroform                  | 67-66-3    | µg/L  | 6.5                                                                         | UJ         | h   | 1.6                                                                         | UJ         | h   | 0.33                                                                        | U          |    | 0.33                                                                       | UJ         | h  |
| SW8260C                                                                    | Chloromethane               | 74-87-3    | µg/L  | 2.9                                                                         | UJ         | h,c | 0.72                                                                        | UJ         | h,c | 0.14                                                                        | U          |    | 0.14                                                                       | UJ         | h  |
| SW8260C                                                                    | cis-1,2-Dichloroethene      | 156-59-2   | µg/L  | 4.4                                                                         | UJ         | h   | 6.5                                                                         | J-         | h   | 6.5                                                                         |            |    | 0.92                                                                       | J-         | h  |
| SW8260C                                                                    | cis-1,3-Dichloropropene     | 10061-01-5 | µg/L  | 9.1                                                                         | UJ         | h   | 2.3                                                                         | UJ         | h   | 0.46                                                                        | U          |    | 0.46                                                                       | UJ         | h  |
| SW8260C                                                                    | Ethylbenzene                | 100-41-4   | µg/L  | 6                                                                           | UJ         | h   | 1.5                                                                         | UJ         | h   | 0.3                                                                         | U          |    | 0.3                                                                        | UJ         | h  |
| SW8260C                                                                    | Methylene chloride          | 75-09-2    | µg/L  | 6.3                                                                         | UJ         | h   | 1.6                                                                         | UJ         | h   | 0.32                                                                        | U          |    | 0.32                                                                       | UJ         | h  |
| SW8260C                                                                    | Styrene                     | 100-42-5   | µg/L  | 8.3                                                                         | UJ         | h   | 2.1                                                                         | UJ         | h   | 0.42                                                                        | U          |    | 0.42                                                                       | UJ         | h  |
| SW8260C                                                                    | Tetrachloroethene           | 127-18-4   | µg/L  | 3000                                                                        | J-         | h   | 1100                                                                        | J-         | h   | 190                                                                         |            |    | 15                                                                         | J-         | h  |
| SW8260C                                                                    | Toluene                     | 108-88-3   | µg/L  | 7.6                                                                         | UJ         | h   | 1.9                                                                         | UJ         | h   | 0.38                                                                        | U          |    | 0.38                                                                       | UJ         | h  |
| SW8260C                                                                    | trans-1,2-Dichloroethene    | 156-60-5   | µg/L  | 4.7                                                                         | UJ         | h   | 1.2                                                                         | UJ         | h   | 0.24                                                                        | U          |    | 0.24                                                                       | UJ         | h  |
| SW8260C                                                                    | trans-1,3-Dichloropropene   | 10061-02-6 | µg/L  | 9.7                                                                         | UJ         | h,c | 2.4                                                                         | UJ         | h,c | 0.49                                                                        | U          |    | 0.49                                                                       | UJ         | h  |
| SW8260C                                                                    | Trichloroethene             | 79-01-6    | µg/L  | 42                                                                          | J-         | h   | 33                                                                          | J-         | h   | 5.6                                                                         |            |    | 0.66                                                                       | J-         | h  |
| SW8260C                                                                    | Vinyl chloride              | 75-01-4    | µg/L  | 3.4                                                                         | UJ         | h   | 0.86                                                                        | UJ         | h   | 0.17                                                                        | U          |    | 0.17                                                                       | UJ         | h  |
| SW8260C                                                                    | Xylene (Total)              | 1330-20-7  | µg/L  | 13                                                                          | UJ         | h   | 3.3                                                                         | UJ         | h   | 0.65                                                                        | U          |    | 0.65                                                                       | UJ         | h  |

**Table B-1**  
**Groundwater Sample Final Results after Data Review**

| Sample Delivery Group<br>Lab ID<br>Sample ID<br>Sample Date<br>Sample Type |                                                           |            |       | 4601657691<br>460-165769-1<br>FSMW-14A 09262018<br>9/26/2018<br>Groundwater |            |    | 4601657691<br>460-165769-2<br>FSMW-14B 09262018<br>9/26/2018<br>Groundwater |            |    | 4601657691<br>460-165769-3<br>FSMW-13A 09262018<br>9/26/2018<br>Groundwater |            |    | 4601657691<br>460-165769-6<br>FSMW-8A 09272018<br>9/27/2018<br>Groundwater |            |    |
|----------------------------------------------------------------------------|-----------------------------------------------------------|------------|-------|-----------------------------------------------------------------------------|------------|----|-----------------------------------------------------------------------------|------------|----|-----------------------------------------------------------------------------|------------|----|----------------------------------------------------------------------------|------------|----|
| Method                                                                     | Analyte                                                   | CAS No     | Units | Result                                                                      | Final Qual | RC | Result                                                                      | Final Qual | RC | Result                                                                      | Final Qual | RC | Result                                                                     | Final Qual | RC |
| SW8270D_SIM                                                                | 1,4-Dioxane                                               | 123-91-1   | µg/L  | 0.26                                                                        |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.016                                                                      | U          |    |
| 537_Mod                                                                    | 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | 27619-97-2 | ng/L  | 2.24                                                                        | J-         | lc | NA                                                                          |            |    | NA                                                                          |            |    | 0.92                                                                       | UJ         | lc |
| 537_Mod                                                                    | 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | 39108-34-4 | ng/L  | 0.47                                                                        | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.52                                                                       | UJ         | lc |
| 537_Mod                                                                    | N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 2991-50-6  | ng/L  | 0.58                                                                        | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.65                                                                       | U          |    |
| 537_Mod                                                                    | N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 2355-31-9  | ng/L  | 0.38                                                                        | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.42                                                                       | U          |    |
| 537_Mod                                                                    | Perfluorobutanesulfonic acid (PFBS)                       | 375-73-5   | ng/L  | 2.73                                                                        |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 5.76                                                                       |            |    |
| 537_Mod                                                                    | Perfluorobutanoic acid (PFBA)                             | 375-22-4   | ng/L  | 7.41                                                                        | J+         | lc | NA                                                                          |            |    | NA                                                                          |            |    | 11.9                                                                       | J+         | lc |
| 537_Mod                                                                    | Perfluorodecanesulfonic acid (PFDCS)                      | 335-77-3   | ng/L  | 0.44                                                                        | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.49                                                                       | U          |    |
| 537_Mod                                                                    | Perfluorodecanoic Acid (PFDA)                             | 335-76-2   | ng/L  | 2.77                                                                        |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.57                                                                       | J          |    |
| 537_Mod                                                                    | Perfluorododecanoic Acid (PFDoA)                          | 307-55-1   | ng/L  | 0.29                                                                        | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.32                                                                       | U          |    |
| 537_Mod                                                                    | Perfluoroheptanesulfonic acid (PFHpS)                     | 375-92-8   | ng/L  | 0.68                                                                        | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.76                                                                       | U          |    |
| 537_Mod                                                                    | Perfluoroheptanoic Acid (PFHpA)                           | 375-85-9   | ng/L  | 8.6                                                                         |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 12                                                                         |            |    |
| 537_Mod                                                                    | Perfluorohexanesulfonic acid (PFHXS)                      | 355-46-4   | ng/L  | 0.22                                                                        | U          | bf | NA                                                                          |            |    | NA                                                                          |            |    | 1.2                                                                        | J          |    |
| 537_Mod                                                                    | Perfluorohexanoic Acid (PFHxA)                            | 307-24-4   | ng/L  | 5.08                                                                        |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 13.1                                                                       | J+         | lc |
| 537_Mod                                                                    | Perfluorononanoic Acid (PFNA)                             | 375-95-1   | ng/L  | 2.06                                                                        |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 3.6                                                                        |            |    |
| 537_Mod                                                                    | Perfluorooctane sulfonamide (PFOSA)                       | 754-91-6   | ng/L  | 0.47                                                                        | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.52                                                                       | U          |    |
| 537_Mod                                                                    | Perfluorooctane sulfonic acid (PFOS)                      | 1763-23-1  | ng/L  | 8.29                                                                        |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 4.15                                                                       |            |    |
| 537_Mod                                                                    | Perfluorooctanoic Acid (PFOA)                             | 335-67-1   | ng/L  | 14.8                                                                        |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 19.2                                                                       |            |    |
| 537_Mod                                                                    | Perfluoropentanoic Acid (PFPeA)                           | 2706-90-3  | ng/L  | 5.3                                                                         |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 18.2                                                                       | J+         | lc |
| 537_Mod                                                                    | Perfluorotetradecanoic acid (PFTEDA)                      | 376-06-7   | ng/L  | 0.38                                                                        | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.42                                                                       | U          |    |
| 537_Mod                                                                    | Perfluorotridecanoic acid (PFTrDA)                        | 72629-94-8 | ng/L  | 0.2                                                                         | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.22                                                                       | U          |    |
| 537_Mod                                                                    | Perfluoroundecanoic Acid (PFUnA)                          | 2058-94-8  | ng/L  | 0.21                                                                        | U          | be | NA                                                                          |            |    | NA                                                                          |            |    | 0.23                                                                       | U          | bl |

**Table B-1**  
**Groundwater Sample Final Results after Data Review**

| Sample Delivery Group                             |                             |            |       | 4601657691<br>460-165769-7<br>FSMW-1A 09272018<br>9/27/2018<br>Groundwater |            |    | 4601657691<br>460-165769-10<br>FSMW-4A 09282018<br>9/28/2018<br>Groundwater |            |    | 4601657691<br>460-165769-11<br>FSMW-2B 09282018<br>9/28/2018<br>Groundwater |            |    | 4601659161<br>460-165916-1<br>FSMW-4B 10012018<br>10/1/2018<br>Groundwater |            |    |
|---------------------------------------------------|-----------------------------|------------|-------|----------------------------------------------------------------------------|------------|----|-----------------------------------------------------------------------------|------------|----|-----------------------------------------------------------------------------|------------|----|----------------------------------------------------------------------------|------------|----|
| Lab ID<br>Sample ID<br>Sample Date<br>Sample Type |                             |            |       |                                                                            |            |    |                                                                             |            |    |                                                                             |            |    |                                                                            |            |    |
| Method                                            | Analyte                     | CAS No     | Units | Result                                                                     | Final Qual | RC | Result                                                                      | Final Qual | RC | Result                                                                      | Final Qual | RC | Result                                                                     | Final Qual | RC |
| SW8260C                                           | 1,1,1-Trichloroethane       | 71-55-6    | µg/L  | 0.24                                                                       | U          |    | 0.24                                                                        | U          |    | 0.24                                                                        | U          |    | 0.24                                                                       | U          |    |
| SW8260C                                           | 1,1,2,2-Tetrachloroethane   | 79-34-5    | µg/L  | 0.37                                                                       | U          |    | 0.37                                                                        | U          |    | 0.37                                                                        | U          |    | 0.37                                                                       | U          |    |
| SW8260C                                           | 1,1,2-Trichloroethane       | 79-00-5    | µg/L  | 0.43                                                                       | U          |    | 0.43                                                                        | U          |    | 0.43                                                                        | U          |    | 0.43                                                                       | U          |    |
| SW8260C                                           | 1,1-Dichloroethane          | 75-34-3    | µg/L  | 0.26                                                                       | U          |    | 0.26                                                                        | U          |    | 0.26                                                                        | U          |    | 0.26                                                                       | U          |    |
| SW8260C                                           | 1,1-Dichloroethene          | 75-35-4    | µg/L  | 0.12                                                                       | U          |    | 0.12                                                                        | U          |    | 0.12                                                                        | U          |    | 0.12                                                                       | U          |    |
| SW8260C                                           | 1,2-Dichloroethane          | 107-06-2   | µg/L  | 0.43                                                                       | U          |    | 0.43                                                                        | U          |    | 0.43                                                                        | U          |    | 0.43                                                                       | U          |    |
| SW8260C                                           | 1,2-Dichloropropane         | 78-87-5    | µg/L  | 0.35                                                                       | U          |    | 0.35                                                                        | U          |    | 0.35                                                                        | U          |    | 0.35                                                                       | U          |    |
| SW8260C                                           | 2-Butanone (MEK)            | 78-93-3    | µg/L  | 1.9                                                                        | U          |    | 1.9                                                                         | U          |    | 1.9                                                                         | U          |    | 1.9                                                                        | U          |    |
| SW8260C                                           | 2-Hexanone                  | 591-78-6   | µg/L  | 2.9                                                                        | U          |    | 2.9                                                                         | U          |    | 2.9                                                                         | U          |    | 2.9                                                                        | U          |    |
| SW8260C                                           | 4-Methyl-2-Pentanone (MIBK) | 108-10-1   | µg/L  | 2.7                                                                        | U          |    | 2.7                                                                         | U          |    | 2.7                                                                         | U          |    | 2.7                                                                        | U          |    |
| SW8260C                                           | Acetone                     | 67-64-1    | µg/L  | 5                                                                          | U          |    | 5                                                                           | U          |    | 5                                                                           | U          |    | 5                                                                          | U          |    |
| SW8260C                                           | Benzene                     | 71-43-2    | µg/L  | 0.43                                                                       | U          |    | 0.43                                                                        | U          |    | 0.43                                                                        | U          |    | 0.43                                                                       | U          |    |
| SW8260C                                           | Bromodichloromethane        | 75-27-4    | µg/L  | 0.34                                                                       | U          |    | 0.34                                                                        | U          |    | 0.34                                                                        | U          |    | 0.34                                                                       | U          |    |
| SW8260C                                           | Bromoform                   | 75-25-2    | µg/L  | 0.54                                                                       | U          |    | 0.54                                                                        | U          |    | 0.54                                                                        | U          |    | 0.54                                                                       | U          |    |
| SW8260C                                           | Bromomethane                | 74-83-9    | µg/L  | 1                                                                          | U          |    | 1                                                                           | U          |    | 1                                                                           | U          |    | 1                                                                          | U          |    |
| SW8260C                                           | Carbon disulfide            | 75-15-0    | µg/L  | 0.16                                                                       | U          |    | 0.16                                                                        | U          |    | 0.16                                                                        | U          |    | 0.16                                                                       | U          |    |
| SW8260C                                           | Carbon tetrachloride        | 56-23-5    | µg/L  | 0.21                                                                       | U          |    | 0.21                                                                        | U          |    | 0.21                                                                        | U          |    | 0.21                                                                       | U          |    |
| SW8260C                                           | Chlorobenzene               | 108-90-7   | µg/L  | 0.38                                                                       | U          |    | 0.38                                                                        | U          |    | 0.38                                                                        | U          |    | 0.38                                                                       | U          |    |
| SW8260C                                           | Chlorobromomethane          | 74-97-5    | µg/L  | 0.41                                                                       | U          |    | 0.41                                                                        | U          |    | 0.41                                                                        | UJ         | c  | 0.41                                                                       | UJ         |    |
| SW8260C                                           | Chloroethane                | 75-00-3    | µg/L  | 0.32                                                                       | U          |    | 0.32                                                                        | U          |    | 0.32                                                                        | U          |    | 0.32                                                                       | UJ         | c  |
| SW8260C                                           | Chloroform                  | 67-66-3    | µg/L  | 0.33                                                                       | U          |    | 0.33                                                                        | U          |    | 0.33                                                                        | U          |    | 0.33                                                                       | U          |    |
| SW8260C                                           | Chloromethane               | 74-87-3    | µg/L  | 0.14                                                                       | U          |    | 0.14                                                                        | U          |    | 0.14                                                                        | UJ         | c  | 0.14                                                                       | UJ         | c  |
| SW8260C                                           | cis-1,2-Dichloroethene      | 156-59-2   | µg/L  | 36                                                                         |            |    | 0.4                                                                         | J          |    | 0.22                                                                        | U          |    | 0.22                                                                       | U          |    |
| SW8260C                                           | cis-1,3-Dichloropropene     | 10061-01-5 | µg/L  | 0.46                                                                       | U          |    | 0.46                                                                        | U          |    | 0.46                                                                        | U          |    | 0.46                                                                       | U          |    |
| SW8260C                                           | Ethylbenzene                | 100-41-4   | µg/L  | 0.3                                                                        | U          |    | 0.3                                                                         | U          |    | 0.3                                                                         | U          |    | 0.3                                                                        | U          |    |
| SW8260C                                           | Methylene chloride          | 75-09-2    | µg/L  | 0.32                                                                       | U          |    | 0.32                                                                        | U          |    | 0.32                                                                        | U          |    | 0.32                                                                       | U          |    |
| SW8260C                                           | Styrene                     | 100-42-5   | µg/L  | 0.42                                                                       | U          |    | 0.42                                                                        | U          |    | 0.42                                                                        | U          |    | 0.42                                                                       | U          |    |
| SW8260C                                           | Tetrachloroethene           | 127-18-4   | µg/L  | 140                                                                        |            |    | 51                                                                          |            |    | 0.62                                                                        | J+         | I  | 3.5                                                                        |            |    |
| SW8260C                                           | Toluene                     | 108-88-3   | µg/L  | 0.38                                                                       | U          |    | 0.38                                                                        | U          |    | 0.38                                                                        | U          |    | 0.38                                                                       | U          |    |
| SW8260C                                           | trans-1,2-Dichloroethene    | 156-60-5   | µg/L  | 0.28                                                                       | J          |    | 0.24                                                                        | U          |    | 0.24                                                                        | U          |    | 0.24                                                                       | U          |    |
| SW8260C                                           | trans-1,3-Dichloropropene   | 10061-02-6 | µg/L  | 0.49                                                                       | U          |    | 0.49                                                                        | U          |    | 0.49                                                                        | U          |    | 0.49                                                                       | U          |    |
| SW8260C                                           | Trichloroethene             | 79-01-6    | µg/L  | 24                                                                         |            |    | 0.49                                                                        | J          |    | 0.31                                                                        | U          |    | 1.8                                                                        |            |    |
| SW8260C                                           | Vinyl chloride              | 75-01-4    | µg/L  | 0.17                                                                       | U          |    | 0.17                                                                        | U          |    | 0.17                                                                        | U          |    | 0.17                                                                       | U          |    |
| SW8260C                                           | Xylene (Total)              | 1330-20-7  | µg/L  | 0.65                                                                       | U          |    | 0.65                                                                        | U          |    | 0.65                                                                        | U          |    | 0.65                                                                       | U          |    |



**Table B-1**  
**Groundwater Sample Final Results after Data Review**

| Sample Delivery Group                             |                                                           |            |       | 4601657691<br>460-165769-7<br>FSMW-1A 09272018<br>9/27/2018<br>Groundwater |            |    | 4601657691<br>460-165769-10<br>FSMW-4A 09282018<br>9/28/2018<br>Groundwater |            |    | 4601657691<br>460-165769-11<br>FSMW-2B 09282018<br>9/28/2018<br>Groundwater |            |    | 4601659161<br>460-165916-1<br>FSMW-4B 10012018<br>10/1/2018<br>Groundwater |            |    |
|---------------------------------------------------|-----------------------------------------------------------|------------|-------|----------------------------------------------------------------------------|------------|----|-----------------------------------------------------------------------------|------------|----|-----------------------------------------------------------------------------|------------|----|----------------------------------------------------------------------------|------------|----|
| Lab ID<br>Sample ID<br>Sample Date<br>Sample Type |                                                           |            |       |                                                                            |            |    |                                                                             |            |    |                                                                             |            |    |                                                                            |            |    |
| Method                                            | Analyte                                                   | CAS No     | Units | Result                                                                     | Final Qual | RC | Result                                                                      | Final Qual | RC | Result                                                                      | Final Qual | RC | Result                                                                     | Final Qual | RC |
| SW8270D SIM                                       | 1,4-Dioxane                                               | 123-91-1   | µg/L  | 0.016                                                                      | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.29                                                                       |            |    |
| 537 Mod                                           | 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | 27619-97-2 | ng/L  | 26.6                                                                       | J-         | lc | NA                                                                          |            |    | NA                                                                          |            |    | 1.94                                                                       | UJ         | h  |
| 537 Mod                                           | 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | 39108-34-4 | ng/L  | 0.46                                                                       | UJ         | lc | NA                                                                          |            |    | NA                                                                          |            |    | 1.85                                                                       | U          |    |
| 537 Mod                                           | N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 2991-50-6  | ng/L  | 0.57                                                                       | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 1.76                                                                       | U          |    |
| 537 Mod                                           | N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 2355-31-9  | ng/L  | 0.37                                                                       | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 2.87                                                                       | U          |    |
| 537 Mod                                           | Perfluorobutanesulfonic acid (PFBS)                       | 375-73-5   | ng/L  | 1.01                                                                       | J          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.72                                                                       | J          |    |
| 537 Mod                                           | Perfluorobutanoic acid (PFBA)                             | 375-22-4   | ng/L  | 4.07                                                                       | J+         | lc | NA                                                                          |            |    | NA                                                                          |            |    | 7.98                                                                       |            |    |
| 537 Mod                                           | Perfluorodecanesulfonic acid (PFDCS)                      | 335-77-3   | ng/L  | 0.43                                                                       | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.3                                                                        | UJ         | m  |
| 537 Mod                                           | Perfluorodecanoic Acid (PFDA)                             | 335-76-2   | ng/L  | 3.28                                                                       |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.29                                                                       | U          |    |
| 537 Mod                                           | Perfluorododecanoic Acid (PFDoA)                          | 307-55-1   | ng/L  | 0.29                                                                       | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.51                                                                       | U          |    |
| 537 Mod                                           | Perfluoroheptanesulfonic acid (PFHpS)                     | 375-92-8   | ng/L  | 0.67                                                                       | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.45                                                                       | J          |    |
| 537 Mod                                           | Perfluoroheptanoic Acid (PFHpA)                           | 375-85-9   | ng/L  | 3.69                                                                       |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 5.75                                                                       |            |    |
| 537 Mod                                           | Perfluorohexanesulfonic acid (PFHXS)                      | 355-46-4   | ng/L  | 0.82                                                                       | J          |    | NA                                                                          |            |    | NA                                                                          |            |    | 5.42                                                                       |            |    |
| 537 Mod                                           | Perfluorohexanoic Acid (PFHxA)                            | 307-24-4   | ng/L  | 5.65                                                                       |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 7.12                                                                       |            |    |
| 537 Mod                                           | Perfluorononanoic Acid (PFNA)                             | 375-95-1   | ng/L  | 0.31                                                                       | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 1.28                                                                       | J          |    |
| 537 Mod                                           | Perfluorooctane sulfonamide (PFOSA)                       | 754-91-6   | ng/L  | 0.46                                                                       | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.32                                                                       | U          |    |
| 537 Mod                                           | Perfluorooctane sulfonic acid (PFOS)                      | 1763-23-1  | ng/L  | 7.18                                                                       |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 6.79                                                                       |            |    |
| 537 Mod                                           | Perfluorooctanoic Acid (PFOA)                             | 335-67-1   | ng/L  | 6.74                                                                       |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 10.6                                                                       |            |    |
| 537 Mod                                           | Perfluoropentanoic Acid (PFPeA)                           | 2706-90-3  | ng/L  | 10.9                                                                       | J+         | lc | NA                                                                          |            |    | NA                                                                          |            |    | 5.97                                                                       |            |    |
| 537 Mod                                           | Perfluorotetradecanoic acid (PFTEDA)                      | 376-06-7   | ng/L  | 0.37                                                                       | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 0.27                                                                       | U          |    |
| 537 Mod                                           | Perfluorotridecanoic acid (PFTrDA)                        | 72629-94-8 | ng/L  | 0.2                                                                        | U          |    | NA                                                                          |            |    | NA                                                                          |            |    | 1.21                                                                       | U          |    |
| 537 Mod                                           | Perfluoroundecanoic Acid (PFUnA)                          | 2058-94-8  | ng/L  | 3.55                                                                       |            |    | NA                                                                          |            |    | NA                                                                          |            |    | 1.02                                                                       | U          |    |

**Table B-1**  
**Groundwater Sample Final Results after Data Review**

| Sample Delivery Group                             |                             |            |       | 4601659161<br>460-165916-2<br>FSMW-2A 10012018<br>10/1/2018<br>Groundwater |      |    | 4601659161<br>460-165916-3<br>DUP1 10012018<br>10/1/2018<br>Duplicate |      |    |
|---------------------------------------------------|-----------------------------|------------|-------|----------------------------------------------------------------------------|------|----|-----------------------------------------------------------------------|------|----|
| Lab ID<br>Sample ID<br>Sample Date<br>Sample Type |                             |            |       |                                                                            |      |    |                                                                       |      |    |
| Method                                            | Analyte                     | CAS No     | Units | Result                                                                     | Qual | RC | Result                                                                | Qual | RC |
| SW8260C                                           | 1,1,1-Trichloroethane       | 71-55-6    | µg/L  | 0.48                                                                       | U    |    | 0.48                                                                  | U    |    |
| SW8260C                                           | 1,1,2,2-Tetrachloroethane   | 79-34-5    | µg/L  | 0.73                                                                       | U    |    | 0.73                                                                  | U    |    |
| SW8260C                                           | 1,1,2-Trichloroethane       | 79-00-5    | µg/L  | 0.87                                                                       | U    |    | 0.87                                                                  | U    |    |
| SW8260C                                           | 1,1-Dichloroethane          | 75-34-3    | µg/L  | 0.53                                                                       | U    |    | 0.53                                                                  | U    |    |
| SW8260C                                           | 1,1-Dichloroethene          | 75-35-4    | µg/L  | 0.23                                                                       | U    |    | 0.23                                                                  | U    |    |
| SW8260C                                           | 1,2-Dichloroethane          | 107-06-2   | µg/L  | 0.86                                                                       | U    |    | 0.86                                                                  | U    |    |
| SW8260C                                           | 1,2-Dichloropropane         | 78-87-5    | µg/L  | 0.71                                                                       | U    |    | 0.71                                                                  | U    |    |
| SW8260C                                           | 2-Butanone (MEK)            | 78-93-3    | µg/L  | 3.7                                                                        | U    |    | 3.7                                                                   | U    |    |
| SW8260C                                           | 2-Hexanone                  | 591-78-6   | µg/L  | 5.8                                                                        | U    |    | 5.8                                                                   | U    |    |
| SW8260C                                           | 4-Methyl-2-Pentanone (MIBK) | 108-10-1   | µg/L  | 5.5                                                                        | U    |    | 5.5                                                                   | U    |    |
| SW8260C                                           | Acetone                     | 67-64-1    | µg/L  | 10                                                                         | U    |    | 10                                                                    | U    |    |
| SW8260C                                           | Benzene                     | 71-43-2    | µg/L  | 0.86                                                                       | U    |    | 0.86                                                                  | U    |    |
| SW8260C                                           | Bromodichloromethane        | 75-27-4    | µg/L  | 0.69                                                                       | U    |    | 0.69                                                                  | U    |    |
| SW8260C                                           | Bromoform                   | 75-25-2    | µg/L  | 1.1                                                                        | U    |    | 1.1                                                                   | U    |    |
| SW8260C                                           | Bromomethane                | 74-83-9    | µg/L  | 2                                                                          | U    |    | 2                                                                     | U    |    |
| SW8260C                                           | Carbon disulfide            | 75-15-0    | µg/L  | 0.31                                                                       | U    |    | 0.31                                                                  | U    |    |
| SW8260C                                           | Carbon tetrachloride        | 56-23-5    | µg/L  | 0.42                                                                       | U    |    | 0.42                                                                  | U    |    |
| SW8260C                                           | Chlorobenzene               | 108-90-7   | µg/L  | 0.75                                                                       | U    |    | 0.75                                                                  | U    |    |
| SW8260C                                           | Chlorobromomethane          | 74-97-5    | µg/L  | 0.82                                                                       | U    |    | 0.82                                                                  | U    |    |
| SW8260C                                           | Chloroethane                | 75-00-3    | µg/L  | 0.64                                                                       | U    |    | 0.64                                                                  | U    |    |
| SW8260C                                           | Chloroform                  | 67-66-3    | µg/L  | 0.65                                                                       | U    |    | 0.65                                                                  | U    |    |
| SW8260C                                           | Chloromethane               | 74-87-3    | µg/L  | 0.29                                                                       | UJ   | c  | 0.29                                                                  | UJ   | c  |
| SW8260C                                           | cis-1,2-Dichloroethene      | 156-59-2   | µg/L  | 28                                                                         |      |    | 27                                                                    |      |    |
| SW8260C                                           | cis-1,3-Dichloropropene     | 10061-01-5 | µg/L  | 0.91                                                                       | U    |    | 0.91                                                                  | U    |    |
| SW8260C                                           | Ethylbenzene                | 100-41-4   | µg/L  | 0.6                                                                        | U    |    | 0.6                                                                   | U    |    |
| SW8260C                                           | Methylene chloride          | 75-09-2    | µg/L  | 0.63                                                                       | U    |    | 0.63                                                                  | U    |    |
| SW8260C                                           | Styrene                     | 100-42-5   | µg/L  | 0.83                                                                       | U    |    | 0.83                                                                  | U    |    |
| SW8260C                                           | Tetrachloroethene           | 127-18-4   | µg/L  | 350                                                                        |      |    | 340                                                                   |      |    |
| SW8260C                                           | Toluene                     | 108-88-3   | µg/L  | 0.76                                                                       | U    |    | 0.76                                                                  | U    |    |
| SW8260C                                           | trans-1,2-Dichloroethene    | 156-60-5   | µg/L  | 0.47                                                                       | U    |    | 0.47                                                                  | U    |    |
| SW8260C                                           | trans-1,3-Dichloropropene   | 10061-02-6 | µg/L  | 0.97                                                                       | U    |    | 0.97                                                                  | U    |    |
| SW8260C                                           | Trichloroethene             | 79-01-6    | µg/L  | 19                                                                         |      |    | 19                                                                    |      |    |
| SW8260C                                           | Vinyl chloride              | 75-01-4    | µg/L  | 0.34                                                                       | U    |    | 0.34                                                                  | U    |    |
| SW8260C                                           | Xylene (Total)              | 1330-20-7  | µg/L  | 1.3                                                                        | U    |    | 1.3                                                                   | U    |    |

**Table B-1**  
**Groundwater Sample Final Results after Data Review**

| Sample Delivery Group |                                                           |            |       | 4601659161       |            |    | 4601659161    |            |    |
|-----------------------|-----------------------------------------------------------|------------|-------|------------------|------------|----|---------------|------------|----|
| Lab ID                |                                                           |            |       | 460-165916-2     |            |    | 460-165916-3  |            |    |
| Sample ID             |                                                           |            |       | FSMW-2A 10012018 |            |    | DUP1 10012018 |            |    |
| Sample Date           |                                                           |            |       | 10/1/2018        |            |    | 10/1/2018     |            |    |
| Sample Type           |                                                           |            |       | Groundwater      |            |    | Duplicate     |            |    |
| Method                | Analyte                                                   | CAS No     | Units | Result           | Final Qual | RC | Result        | Final Qual | RC |
| SW8270D SIM           | 1,4-Dioxane                                               | 123-91-1   | µg/L  | 0.016            | U          |    | 0.016         | U          |    |
| 537 Mod               | 6:2 Fluorotelomer sulfonate (6:2 FTS)                     | 27619-97-2 | ng/L  | 2.02             | UJ         | h  | 2.03          | UJ         | h  |
| 537 Mod               | 8:2 Fluorotelomer sulfonate (8:2 FTS)                     | 39108-34-4 | ng/L  | 1.66             | U          |    | 1.85          | U          |    |
| 537 Mod               | N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 2991-50-6  | ng/L  | 1.58             | U          |    | 1.76          | U          |    |
| 537 Mod               | N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 2355-31-9  | ng/L  | 2.57             | U          |    | 2.87          | U          |    |
| 537 Mod               | Perfluorobutanesulfonic acid (PFBS)                       | 375-73-5   | ng/L  | 1.65             | J          |    | 1.62          | J          |    |
| 537 Mod               | Perfluorobutanoic acid (PFBA)                             | 375-22-4   | ng/L  | 1.13             | J          |    | 1.21          | J          |    |
| 537 Mod               | Perfluorodecanesulfonic acid (PFDCS)                      | 335-77-3   | ng/L  | 0.27             | U          |    | 0.3           | U          |    |
| 537 Mod               | Perfluorodecanoic Acid (PFDA)                             | 335-76-2   | ng/L  | 0.49             | J          |    | 0.54          | J          |    |
| 537 Mod               | Perfluorododecanoic Acid (PFDoA)                          | 307-55-1   | ng/L  | 1.04             | J          |    | 0.84          | J          |    |
| 537 Mod               | Perfluoroheptanesulfonic acid (PFHpS)                     | 375-92-8   | ng/L  | 0.16             | U          |    | 0.18          | U          |    |
| 537 Mod               | Perfluoroheptanoic Acid (PFHpA)                           | 375-85-9   | ng/L  | 1.34             | J          |    | 1.07          | J          |    |
| 537 Mod               | Perfluorohexanesulfonic acid (PFHXS)                      | 355-46-4   | ng/L  | 0.14             | U          | bl | 0.16          | U          | bl |
| 537 Mod               | Perfluorohexanoic Acid (PFHxA)                            | 307-24-4   | ng/L  | 0.78             | J          |    | 0.89          | J          |    |
| 537 Mod               | Perfluorononanoic Acid (PFNA)                             | 375-95-1   | ng/L  | 0.39             | J          |    | 0.51          | J          |    |
| 537 Mod               | Perfluorooctane sulfonamide (PFOSA)                       | 754-91-6   | ng/L  | 0.29             | U          |    | 0.32          | U          |    |
| 537 Mod               | Perfluorooctane sulfonic acid (PFOS)                      | 1763-23-1  | ng/L  | 1.38             | J          |    | 1.13          | J          |    |
| 537 Mod               | Perfluorooctanoic Acid (PFOA)                             | 335-67-1   | ng/L  | 2.44             |            |    | 1.18          | J          |    |
| 537 Mod               | Perfluoropentanoic Acid (PFPeA)                           | 2706-90-3  | ng/L  | 2.37             |            |    | 2.33          |            |    |
| 537 Mod               | Perfluorotetradecanoic acid (PFTEDA)                      | 376-06-7   | ng/L  | 0.24             | U          | bl | 0.27          | U          | bl |
| 537 Mod               | Perfluorotridecanoic acid (PFTrDA)                        | 72629-94-8 | ng/L  | 2.84             |            |    | 2.65          |            |    |
| 537 Mod               | Perfluoroundecanoic Acid (PFUnA)                          | 2058-94-8  | ng/L  | 0.91             | U          |    | 1.02          | U          |    |

**Notes:**

|      |   |                                                                                                                                                                                                                  |
|------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS  | = | Chemical abstract services                                                                                                                                                                                       |
| SIM  | = | Selective ion monitoring                                                                                                                                                                                         |
| Qual | = | Final interpreted qualifier (See definition below)                                                                                                                                                               |
| RC   | = | Reason code (See definition below)                                                                                                                                                                               |
| µg/L | = | Micrograms per liter                                                                                                                                                                                             |
| ng/L | = | Nanograms per liter                                                                                                                                                                                              |
| J    | = | <b>Estimated Value</b> — One or more QC parameters were outside control limits or the analyte concentration was below the reporting limit but above the method detection limit                                   |
| J-   | = | <b>Estimated and Biased Low</b> – the result is estimated due to a quality control outlier and the bias may be low.                                                                                              |
| J+   | = | <b>Estimated and Biased High</b> – the result is estimated due to a quality control outlier and the bias may be high.                                                                                            |
| U    | = | <b>Undetected</b> — The analyte was undetected above the method detection limit or qualified as undetected due to blank artifacts; the associated value presented is the MDL.                                    |
| UJ   | = | <b>Estimated and undetected</b> — The analyte was undetected above the method detection limit and one or more quality control parameters were outside control limits; the associated value presented is the MDL. |
| MDL  | = | Method detection limit                                                                                                                                                                                           |

**Reason Code**

|    |   |                                                                                              |
|----|---|----------------------------------------------------------------------------------------------|
| be | = | Equipment blank contamination                                                                |
| bf | = | Field blank contamination                                                                    |
| bl | = | Laboratory blank contamination                                                               |
| c  | = | Calibration Outlier                                                                          |
| h  | = | Holding time exceedance                                                                      |
| l  | = | Laboratory control sample recovery outlier (accuracy indicator)                              |
| lc | = | Labelled compound/extracted internal standard analyte for PFAS analysis (accuracy indicator) |
| m  | = | Matrix spike/matrix spike duplicate recovery outlier (accuracy indicator)                    |
| p  | = | Sample preservation                                                                          |



**Attachment C**  
**NYSDEC Data Deliverables Packages**

## ANALYTICAL REPORT

Job Number: 460-165769-1

Job Description: FROST ST

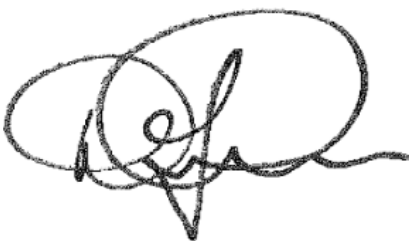
For:

EnSafe, Inc.

1233 Silas Deane Highway

Wethersfield, CT 06109

Attention: Alexandra Stark



Approved for release.  
Dawn F. Crowell  
Project Manager I  
11/19/2018 3:16 PM

---

Dawn F. Crowell, Project Manager I  
777 New Durham Road, Edison, NJ, 08817  
dawn.crowell@testamericainc.com  
11/19/2018  
Revision: 2

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

**TestAmerica Laboratories, Inc.**

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817

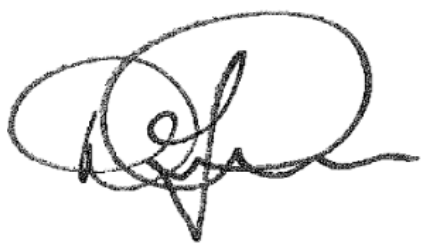
Tel (732) 549-3900 Fax (732) 549-3679 [www.testamericainc.com](http://www.testamericainc.com)



Job Number: 460-165769-1

Job Description: FROST ST

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in black ink, appearing to read 'Dawn F. Crowell', written over a horizontal line.

Approved for release.  
Dawn F. Crowell  
Project Manager I  
11/19/2018 3:16 PM

Dawn F Crowell

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## CASE NARRATIVE

**Client: EnSafe, Inc.**

**Project: FROST ST**

**Report Number: 460-165769-1**

**Revision - 1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

### **RECEIPT**

The samples were received on 9/28/2018 8:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

### **Receipt Exceptions**

Per laboratory policy, the Trip Blank sample date/time was changed to reflect the latest date/time of the sampling event.

Client requested a revision of the report and EDDs due to a change to the analyte list. 1,2-Dichloroethane was not reported and dibromochloromethane was reported. Client requested to report 1,2-Dichloroethane and remove dibromochloromethane and the analytes provided in the email.

### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples FSMW-14A 09262018 (460-165769-1), FSMW-14B 09262018 (460-165769-2), FSMW-13A 09262018 (460-165769-3), EB1 092618 (460-165769-4), FB1 09262018 (460-165769-5), FSMW-8A 09272018 (460-165769-6), FSMW-1A 09272018 (460-165769-7), EB2 09272018 (460-165769-8), FB2 09272018 (460-165769-9), FSMW-4A 09282018 (460-165769-10), FSMW-2B 09282018 (460-165769-11), EB3 09282018 (460-165769-12), FB3 09282018 (460-165769-13) and TB1 09262018 (460-165769-14) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 10/09/2018, 10/10/2018 and 10/11/2018.

The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following sample was analyzed after 7 days from sampling: TB1 09262018 (460-165769-14). All three vials were checked and confirmed to be the same.

The continuing calibration verification (CCV) analyzed in batch 460-559112 was outside the method criteria for the following analytes: Chlorobromomethane (bias high) and Chloromethane (bias low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-559112 recovered (high) outside upper control limits for the following analytes: 2-Butanone (MEK) and Tetrachloroethene.

The continuing calibration verification (CCV) analyzed in batch 460-558952 was outside the method criteria for the following analytes: trans-1,3-Dichloropropene, 1,1,2,2-Tetrachloroethane and Chloromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-558952 recovered (high) outside control limits for 2-Butanone (MEK). The analyte was biased high in the LCS/LCSD and was not detected in the associated

samples; therefore, the data have been reported.

Tetrachloroethene was detected in method blank MB 460-558952/10 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Refer to the QC report for details.

The following samples were diluted to bring the concentration of target analytes within the calibration range: FSMW-14A 09262018 (460-165769-1)[20X] and FSMW-14B 09262018 (460-165769-2)[5X] Elevated reporting limits (RLs) are provided. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

#### **1,4 DIOXANE BY 8270D SIM, ISOTOPE DILUTION**

Samples FSMW-14A 09262018 (460-165769-1), EB1 092618 (460-165769-4), FB1 09262018 (460-165769-5), FSMW-8A 09272018 (460-165769-6), FSMW-1A 09272018 (460-165769-7), EB2 09272018 (460-165769-8) and FB2 09272018 (460-165769-9) were analyzed for 1,4 Dioxane by 8270D SIM, Isotope Dilution in accordance with EPA SW-846 Method 8270D SIM. The samples were prepared on 10/01/2018 and 10/04/2018 and analyzed on 10/02/2018 and 10/05/2018.

1,4-Dioxane failed the recovery criteria high for the MS/MSD of sample 460-165755-1 in batch 460-556593.

Refer to the QC report for details.

No other difficulties were encountered during the 1,4 Dioxane analysis.

All other quality control parameters were within the acceptance limits.

#### **PERFLUORINATED HYDROCARBONS (PFC)**

Samples FSMW-14A 09262018 (460-165769-1), EB1 092618 (460-165769-4), FB1 09262018 (460-165769-5), FSMW-8A 09272018 (460-165769-6), FSMW-1A 09272018 (460-165769-7), EB2 09272018 (460-165769-8) and FB2 09272018 (460-165769-9) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFC. The samples were prepared on 10/05/2018 and analyzed on 10/12/2018.

The method blank for preparation batch 200-134904 and analytical batch 200-135180 contained Perfluorohexanesulfonic acid (PFHxS), Perfluorobutanoic acid (PFBA) and Perfluoroundecanoic acid (PFUnA) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

The Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: FSMW-14A 09262018 (460-165769-1), FSMW-8A 09272018 (460-165769-6), FSMW-1A 09272018 (460-165769-7), (460-165718-A-3-A), (460-165718-A-3-B MS) and (460-165718-A-3-C MSD). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: FSMW-8A 09272018 (460-165769-6). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s). All detection limits are below the lower calibration.

Refer to the QC report for details.

No other difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All other quality control parameters were within the acceptance limits.

# Sample Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

| Lab Sample ID | Client Sample ID  | Matrix | Collected      | Received       |
|---------------|-------------------|--------|----------------|----------------|
| 460-165769-1  | FSMW-14A 09262018 | Water  | 09/26/18 11:05 | 09/28/18 20:00 |
| 460-165769-2  | FSMW-14B 09262018 | Water  | 09/26/18 13:25 | 09/28/18 20:00 |
| 460-165769-3  | FSMW-13A 09262018 | Water  | 09/26/18 15:00 | 09/28/18 20:00 |
| 460-165769-4  | EB1 092618        | Water  | 09/26/18 11:20 | 09/28/18 20:00 |
| 460-165769-5  | FB1 09262018      | Water  | 09/26/18 13:00 | 09/28/18 20:00 |
| 460-165769-6  | FSMW-8A 09272018  | Water  | 09/27/18 11:00 | 09/28/18 20:00 |
| 460-165769-7  | FSMW-1A 09272018  | Water  | 09/27/18 14:20 | 09/28/18 20:00 |
| 460-165769-8  | EB2 09272018      | Water  | 09/27/18 11:30 | 09/28/18 20:00 |
| 460-165769-9  | FB2 09272018      | Water  | 09/27/18 13:00 | 09/28/18 20:00 |
| 460-165769-10 | FSMW-4A 09282018  | Water  | 09/28/18 11:55 | 09/28/18 20:00 |
| 460-165769-11 | FSMW-2B 09282018  | Water  | 09/28/18 13:50 | 09/28/18 20:00 |
| 460-165769-12 | EB3 09282018      | Water  | 09/28/18 12:15 | 09/28/18 20:00 |
| 460-165769-13 | FB3 09282018      | Water  | 09/28/18 12:45 | 09/28/18 20:00 |
| 460-165769-14 | TB1 09262018      | Water  | 09/28/18 13:50 | 09/28/18 20:00 |

# Detection Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Client Sample ID: FSMW-14A 09262018

## Lab Sample ID: 460-165769-1

| Analyte                                        | Result | Qualifier | RL   | MDL   | Unit | Dil Fac | D | Method         | Prep Type |
|------------------------------------------------|--------|-----------|------|-------|------|---------|---|----------------|-----------|
| Tetrachloroethene                              | 3000   | B         | 20   | 5.0   | ug/L | 20      |   | 8260C          | Total/NA  |
| Trichloroethene                                | 42     |           | 20   | 6.3   | ug/L | 20      |   | 8260C          | Total/NA  |
| 1,4-Dioxane                                    | 0.26   |           | 0.20 | 0.016 | ug/L | 1       |   | 8270D SIM ID   | Total/NA  |
| Perfluorobutanoic acid (PFBA)                  | 7.41   | B         | 1.67 | 0.34  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)                | 5.30   |           | 1.67 | 0.63  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)                 | 5.08   |           | 1.67 | 0.20  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)                | 8.60   |           | 1.67 | 0.27  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)                  | 14.8   |           | 1.67 | 0.27  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorononanoic acid (PFNA)                  | 2.06   |           | 1.67 | 0.32  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorodecanoic acid (PFDA)                  | 2.77   |           | 1.67 | 0.32  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroundecanoic acid (PFUnA)               | 1.22   | J B       | 1.67 | 0.21  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorobutanesulfonic acid (PFBS)            | 2.73   |           | 1.67 | 0.37  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS)           | 1.58   | J B       | 1.67 | 0.22  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)            | 8.29   |           | 1.67 | 0.63  | ng/L | 1       |   | 537 (modified) | Total/NA  |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2) | 2.24   | J         | 16.7 | 0.84  | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: FSMW-14B 09262018

## Lab Sample ID: 460-165769-2

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 6.5    |           | 5.0 | 1.1 | ug/L | 5       |   | 8260C  | Total/NA  |
| Tetrachloroethene      | 1100   | B         | 5.0 | 1.2 | ug/L | 5       |   | 8260C  | Total/NA  |
| Trichloroethene        | 33     |           | 5.0 | 1.6 | ug/L | 5       |   | 8260C  | Total/NA  |

## Client Sample ID: FSMW-13A 09262018

## Lab Sample ID: 460-165769-3

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,2-Dichloropropane    | 1.2    |           | 1.0 | 0.35 | ug/L | 1       |   | 8260C  | Total/NA  |
| cis-1,2-Dichloroethene | 6.5    |           | 1.0 | 0.22 | ug/L | 1       |   | 8260C  | Total/NA  |
| Tetrachloroethene      | 190    |           | 1.0 | 0.25 | ug/L | 1       |   | 8260C  | Total/NA  |
| Trichloroethene        | 5.6    |           | 1.0 | 0.31 | ug/L | 1       |   | 8260C  | Total/NA  |

## Client Sample ID: EB1 092618

## Lab Sample ID: 460-165769-4

| Analyte                          | Result | Qualifier | RL   | MDL  | Unit | Dil Fac | D | Method         | Prep Type |
|----------------------------------|--------|-----------|------|------|------|---------|---|----------------|-----------|
| 2-Butanone (MEK)                 | 2.3    | J         | 5.0  | 1.9  | ug/L | 1       |   | 8260C          | Total/NA  |
| Acetone                          | 8.2    |           | 5.0  | 5.0  | ug/L | 1       |   | 8260C          | Total/NA  |
| Methylene Chloride               | 1.1    |           | 1.0  | 0.32 | ug/L | 1       |   | 8260C          | Total/NA  |
| Perfluorooctanoic acid (PFOA)    | 0.34   | J         | 1.87 | 0.30 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroundecanoic acid (PFUnA) | 0.24   | J B       | 1.87 | 0.23 | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: FB1 09262018

## Lab Sample ID: 460-165769-5

| Analyte                              | Result | Qualifier | RL   | MDL  | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|--------|-----------|------|------|------|---------|---|----------------|-----------|
| Perfluorohexanesulfonic acid (PFHxS) | 0.32   | J B       | 1.88 | 0.24 | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: FSMW-8A 09272018

## Lab Sample ID: 460-165769-6

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 0.92   | J         | 1.0 | 0.22 | ug/L | 1       |   | 8260C  | Total/NA  |
| Tetrachloroethene      | 15     |           | 1.0 | 0.25 | ug/L | 1       |   | 8260C  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

# Detection Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Client Sample ID: FSMW-8A 09272018 (Continued)

## Lab Sample ID: 460-165769-6

| Analyte                              | Result | Qualifier | RL   | MDL  | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|--------|-----------|------|------|------|---------|---|----------------|-----------|
| Trichloroethene                      | 0.66   | J         | 1.0  | 0.31 | ug/L | 1       |   | 8260C          | Total/NA  |
| Perfluorobutanoic acid (PFBA)        | 11.9   | B         | 1.85 | 0.38 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)      | 18.2   |           | 1.85 | 0.69 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)       | 13.1   |           | 1.85 | 0.22 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)      | 12.0   |           | 1.85 | 0.30 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)        | 19.2   |           | 1.85 | 0.30 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorononanoic acid (PFNA)        | 3.60   |           | 1.85 | 0.35 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorodecanoic acid (PFDA)        | 0.57   | J         | 1.85 | 0.35 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroundecanoic acid (PFUnA)     | 0.32   | J B       | 1.85 | 0.23 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorobutanesulfonic acid (PFBS)  | 5.76   |           | 1.85 | 0.41 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS) | 1.20   | J B       | 1.85 | 0.24 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)  | 4.15   |           | 1.85 | 0.70 | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: FSMW-1A 09272018

## Lab Sample ID: 460-165769-7

| Analyte                                        | Result | Qualifier | RL   | MDL  | Unit | Dil Fac | D | Method         | Prep Type |
|------------------------------------------------|--------|-----------|------|------|------|---------|---|----------------|-----------|
| cis-1,2-Dichloroethene                         | 36     |           | 1.0  | 0.22 | ug/L | 1       |   | 8260C          | Total/NA  |
| Tetrachloroethene                              | 140    |           | 1.0  | 0.25 | ug/L | 1       |   | 8260C          | Total/NA  |
| trans-1,2-Dichloroethene                       | 0.28   | J         | 1.0  | 0.24 | ug/L | 1       |   | 8260C          | Total/NA  |
| Trichloroethene                                | 24     |           | 1.0  | 0.31 | ug/L | 1       |   | 8260C          | Total/NA  |
| Perfluorobutanoic acid (PFBA)                  | 4.07   | B         | 1.64 | 0.34 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)                | 10.9   |           | 1.64 | 0.61 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)                 | 5.65   |           | 1.64 | 0.20 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)                | 3.69   |           | 1.64 | 0.26 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)                  | 6.74   |           | 1.64 | 0.26 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorodecanoic acid (PFDA)                  | 3.28   |           | 1.64 | 0.31 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroundecanoic acid (PFUnA)               | 3.55   | B         | 1.64 | 0.20 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorobutanesulfonic acid (PFBS)            | 1.01   | J         | 1.64 | 0.36 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS)           | 0.82   | J B       | 1.64 | 0.21 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)            | 7.18   |           | 1.64 | 0.62 | ng/L | 1       |   | 537 (modified) | Total/NA  |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2) | 26.6   |           | 16.4 | 0.82 | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: EB2 09272018

## Lab Sample ID: 460-165769-8

| Analyte          | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 2-Butanone (MEK) | 2.3    | J         | 5.0 | 1.9  | ug/L | 1       |   | 8260C  | Total/NA  |
| Acetone          | 6.6    |           | 5.0 | 5.0  | ug/L | 1       |   | 8260C  | Total/NA  |
| Xylenes, Total   | 1.6    | J         | 2.0 | 0.65 | ug/L | 1       |   | 8260C  | Total/NA  |

## Client Sample ID: FB2 09272018

## Lab Sample ID: 460-165769-9

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Xylenes, Total | 1.1    | J         | 2.0 | 0.65 | ug/L | 1       |   | 8260C  | Total/NA  |

## Client Sample ID: FSMW-4A 09282018

## Lab Sample ID: 460-165769-10

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 0.40   | J         | 1.0 | 0.22 | ug/L | 1       |   | 8260C  | Total/NA  |
| Tetrachloroethene      | 51     |           | 1.0 | 0.25 | ug/L | 1       |   | 8260C  | Total/NA  |
| Trichloroethene        | 0.49   | J         | 1.0 | 0.31 | ug/L | 1       |   | 8260C  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

## Detection Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

### Client Sample ID: FSMW-2B 09282018

### Lab Sample ID: 460-165769-11

| Analyte           | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Tetrachloroethene | 0.62   | J *       | 1.0 | 0.25 | ug/L | 1       |   | 8260C  | Total/NA  |

### Client Sample ID: EB3 09282018

### Lab Sample ID: 460-165769-12

| Analyte          | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 2-Butanone (MEK) | 3.6    | J         | 5.0 | 1.9 | ug/L | 1       |   | 8260C  | Total/NA  |
| Acetone          | 8.6    |           | 5.0 | 5.0 | ug/L | 1       |   | 8260C  | Total/NA  |

### Client Sample ID: FB3 09282018

### Lab Sample ID: 460-165769-13

| Analyte          | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 2-Butanone (MEK) | 3.9    | J         | 5.0 | 1.9 | ug/L | 1       |   | 8260C  | Total/NA  |
| Acetone          | 18     |           | 5.0 | 5.0 | ug/L | 1       |   | 8260C  | Total/NA  |

### Client Sample ID: TB1 09262018

### Lab Sample ID: 460-165769-14

| Analyte          | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 2-Butanone (MEK) | 3.1    | J         | 5.0 | 1.9 | ug/L | 1       |   | 8260C  | Total/NA  |
| Acetone          | 8.0    |           | 5.0 | 5.0 | ug/L | 1       |   | 8260C  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Edison



## Method Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

| Method         | Method Description                                            | Protocol | Laboratory |
|----------------|---------------------------------------------------------------|----------|------------|
| 8260C          | Volatile Organic Compounds by GC/MS                           | SW846    | TAL EDI    |
| 8270D SIM ID   | Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) | SW846    | TAL EDI    |
| 537 (modified) | Fluorinated Alkyl Substances                                  | EPA      | TAL BUR    |
| 3510C          | Liquid-Liquid Extraction (Separatory Funnel)                  | SW846    | TAL EDI    |
| 3535           | Solid-Phase Extraction (SPE)                                  | SW846    | TAL BUR    |
| 5030C          | Purge and Trap                                                | SW846    | TAL EDI    |

### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-14A 09262018**

**Lab Sample ID: 460-165769-1**

**Date Collected: 09/26/18 11:05**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                     | Result      | Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 4.8         | U         | 20  | 4.8 | ug/L | — |          | 10/10/18 14:07 | 20      |
| 1,1,2,2-Tetrachloroethane   | 7.3         | U         | 20  | 7.3 | ug/L | — |          | 10/10/18 14:07 | 20      |
| 1,1,2-Trichloroethane       | 8.7         | U         | 20  | 8.7 | ug/L | — |          | 10/10/18 14:07 | 20      |
| 1,1-Dichloroethane          | 5.3         | U         | 20  | 5.3 | ug/L | — |          | 10/10/18 14:07 | 20      |
| 1,1-Dichloroethene          | 2.3         | U         | 20  | 2.3 | ug/L | — |          | 10/10/18 14:07 | 20      |
| 1,2-Dichloroethane          | 8.6         | U         | 20  | 8.6 | ug/L | — |          | 10/10/18 14:07 | 20      |
| 1,2-Dichloropropane         | 7.1         | U         | 20  | 7.1 | ug/L | — |          | 10/10/18 14:07 | 20      |
| 2-Butanone (MEK)            | 37          | U *       | 100 | 37  | ug/L | — |          | 10/10/18 14:07 | 20      |
| 2-Hexanone                  | 58          | U         | 100 | 58  | ug/L | — |          | 10/10/18 14:07 | 20      |
| 4-Methyl-2-pentanone (MIBK) | 55          | U         | 100 | 55  | ug/L | — |          | 10/10/18 14:07 | 20      |
| Acetone                     | 100         | U         | 100 | 100 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Benzene                     | 8.6         | U         | 20  | 8.6 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Bromoform                   | 11          | U         | 20  | 11  | ug/L | — |          | 10/10/18 14:07 | 20      |
| Bromomethane                | 20          | U         | 20  | 20  | ug/L | — |          | 10/10/18 14:07 | 20      |
| Carbon disulfide            | 3.1         | U         | 20  | 3.1 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Carbon tetrachloride        | 4.2         | U         | 20  | 4.2 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Chlorobenzene               | 7.5         | U         | 20  | 7.5 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Chlorobromomethane          | 8.2         | U         | 20  | 8.2 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Chloroethane                | 6.4         | U         | 20  | 6.4 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Chloroform                  | 6.5         | U         | 20  | 6.5 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Chloromethane               | 2.9         | U         | 20  | 2.9 | ug/L | — |          | 10/10/18 14:07 | 20      |
| cis-1,2-Dichloroethene      | 4.4         | U         | 20  | 4.4 | ug/L | — |          | 10/10/18 14:07 | 20      |
| cis-1,3-Dichloropropene     | 9.1         | U         | 20  | 9.1 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Ethylbenzene                | 6.0         | U         | 20  | 6.0 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Methylene Chloride          | 6.3         | U         | 20  | 6.3 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Styrene                     | 8.3         | U         | 20  | 8.3 | ug/L | — |          | 10/10/18 14:07 | 20      |
| <b>Tetrachloroethene</b>    | <b>3000</b> | <b>B</b>  | 20  | 5.0 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Toluene                     | 7.6         | U         | 20  | 7.6 | ug/L | — |          | 10/10/18 14:07 | 20      |
| trans-1,2-Dichloroethene    | 4.7         | U         | 20  | 4.7 | ug/L | — |          | 10/10/18 14:07 | 20      |
| trans-1,3-Dichloropropene   | 9.7         | U         | 20  | 9.7 | ug/L | — |          | 10/10/18 14:07 | 20      |
| <b>Trichloroethene</b>      | <b>42</b>   |           | 20  | 6.3 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Vinyl chloride              | 3.4         | U         | 20  | 3.4 | ug/L | — |          | 10/10/18 14:07 | 20      |
| Xylenes, Total              | 13          | U         | 40  | 13  | ug/L | — |          | 10/10/18 14:07 | 20      |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 74 - 132 |          | 10/10/18 14:07 | 20      |
| 4-Bromofluorobenzene         | 95        |           | 77 - 124 |          | 10/10/18 14:07 | 20      |
| Dibromofluoromethane (Surr)  | 109       |           | 72 - 131 |          | 10/10/18 14:07 | 20      |
| Toluene-d8 (Surr)            | 91        |           | 80 - 120 |          | 10/10/18 14:07 | 20      |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.26      |           | 0.20     | 0.016 | ug/L | — | 10/01/18 23:59 | 10/02/18 17:50 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 40        |           | 10 - 150 |       |      |   | 10/01/18 23:59 | 10/02/18 17:50 | 1       |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                                | Result      | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------|-------------|-----------|------|------|------|---|----------------|----------------|---------|
| <b>Perfluorobutanoic acid (PFBA)</b>   | <b>7.41</b> | <b>B</b>  | 1.67 | 0.34 | ng/L | — | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| <b>Perfluoropentanoic acid (PFPeA)</b> | <b>5.30</b> |           | 1.67 | 0.63 | ng/L | — | 10/05/18 12:20 | 10/12/18 20:55 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-14A 09262018**

**Lab Sample ID: 460-165769-1**

**Date Collected: 09/26/18 11:05**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                                                  | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid (PFHxA)                           | 5.08   |           | 1.67 | 0.20 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | 8.60   |           | 1.67 | 0.27 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorooctanoic acid (PFOA)                            | 14.8   |           | 1.67 | 0.27 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorononanoic acid (PFNA)                            | 2.06   |           | 1.67 | 0.32 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorodecanoic acid (PFDA)                            | 2.77   |           | 1.67 | 0.32 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | 1.22   | J B       | 1.67 | 0.21 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | 0.29   | U         | 1.67 | 0.29 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | 0.20   | U         | 1.67 | 0.20 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | 0.38   | U         | 1.67 | 0.38 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 2.73   |           | 1.67 | 0.37 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 1.58   | J B       | 1.67 | 0.22 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.68   | U         | 1.67 | 0.68 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 8.29   |           | 1.67 | 0.63 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | 0.44   | U         | 1.67 | 0.44 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | 0.47   | U         | 1.67 | 0.47 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.38   | U         | 16.7 | 0.38 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.58   | U         | 16.7 | 0.58 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 2.24   | J         | 16.7 | 0.84 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.47   | U         | 16.7 | 0.47 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:55 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 18O2 PFHxS       | 73        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C4 PFHpA       | 78        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C4 PFOA        | 88        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C4 PFOS        | 73        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C5 PFNA        | 88        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C4 PFBA        | 43        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C2 PFHxA       | 54        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C2 PFDA        | 84        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C2 PFUnA       | 88        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C2 PFDoA       | 78        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C8 FOSA        | 39        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C5 PFPeA       | 53        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C2 PFTeDA      | 60        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| d3-NMeFOSAA      | 67        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| d5-NEtFOSAA      | 70        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| M2-6:2 FTS       | 169       | *         | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| M2-8:2 FTS       | 118       |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |
| 13C3 PFBS        | 65        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:55 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-14B 09262018**

**Lab Sample ID: 460-165769-2**

**Date Collected: 09/26/18 13:25**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                       | Result      | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane         | 1.2         | U         | 5.0 | 1.2  | ug/L |   |          | 10/10/18 13:40 | 5       |
| 1,1,2,2-Tetrachloroethane     | 1.8         | U         | 5.0 | 1.8  | ug/L |   |          | 10/10/18 13:40 | 5       |
| 1,1,2-Trichloroethane         | 2.2         | U         | 5.0 | 2.2  | ug/L |   |          | 10/10/18 13:40 | 5       |
| 1,1-Dichloroethane            | 1.3         | U         | 5.0 | 1.3  | ug/L |   |          | 10/10/18 13:40 | 5       |
| 1,1-Dichloroethene            | 0.59        | U         | 5.0 | 0.59 | ug/L |   |          | 10/10/18 13:40 | 5       |
| 1,2-Dichloroethane            | 2.2         | U         | 5.0 | 2.2  | ug/L |   |          | 10/10/18 13:40 | 5       |
| 1,2-Dichloropropane           | 1.8         | U         | 5.0 | 1.8  | ug/L |   |          | 10/10/18 13:40 | 5       |
| 2-Butanone (MEK)              | 9.3         | U *       | 25  | 9.3  | ug/L |   |          | 10/10/18 13:40 | 5       |
| 2-Hexanone                    | 15          | U         | 25  | 15   | ug/L |   |          | 10/10/18 13:40 | 5       |
| 4-Methyl-2-pentanone (MIBK)   | 14          | U         | 25  | 14   | ug/L |   |          | 10/10/18 13:40 | 5       |
| Acetone                       | 25          | U         | 25  | 25   | ug/L |   |          | 10/10/18 13:40 | 5       |
| Benzene                       | 2.1         | U         | 5.0 | 2.1  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Bromoform                     | 2.7         | U         | 5.0 | 2.7  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Bromomethane                  | 5.0         | U         | 5.0 | 5.0  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Carbon disulfide              | 0.78        | U         | 5.0 | 0.78 | ug/L |   |          | 10/10/18 13:40 | 5       |
| Carbon tetrachloride          | 1.0         | U         | 5.0 | 1.0  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Chlorobenzene                 | 1.9         | U         | 5.0 | 1.9  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Chlorobromomethane            | 2.1         | U         | 5.0 | 2.1  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Chloroethane                  | 1.6         | U         | 5.0 | 1.6  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Chloroform                    | 1.6         | U         | 5.0 | 1.6  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Chloromethane                 | 0.72        | U         | 5.0 | 0.72 | ug/L |   |          | 10/10/18 13:40 | 5       |
| <b>cis-1,2-Dichloroethene</b> | <b>6.5</b>  |           | 5.0 | 1.1  | ug/L |   |          | 10/10/18 13:40 | 5       |
| cis-1,3-Dichloropropene       | 2.3         | U         | 5.0 | 2.3  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Ethylbenzene                  | 1.5         | U         | 5.0 | 1.5  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Methylene Chloride            | 1.6         | U         | 5.0 | 1.6  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Styrene                       | 2.1         | U         | 5.0 | 2.1  | ug/L |   |          | 10/10/18 13:40 | 5       |
| <b>Tetrachloroethene</b>      | <b>1100</b> | <b>B</b>  | 5.0 | 1.2  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Toluene                       | 1.9         | U         | 5.0 | 1.9  | ug/L |   |          | 10/10/18 13:40 | 5       |
| trans-1,2-Dichloroethene      | 1.2         | U         | 5.0 | 1.2  | ug/L |   |          | 10/10/18 13:40 | 5       |
| trans-1,3-Dichloropropene     | 2.4         | U         | 5.0 | 2.4  | ug/L |   |          | 10/10/18 13:40 | 5       |
| <b>Trichloroethene</b>        | <b>33</b>   |           | 5.0 | 1.6  | ug/L |   |          | 10/10/18 13:40 | 5       |
| Vinyl chloride                | 0.86        | U         | 5.0 | 0.86 | ug/L |   |          | 10/10/18 13:40 | 5       |
| Xylenes, Total                | 3.3         | U         | 10  | 3.3  | ug/L |   |          | 10/10/18 13:40 | 5       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 74 - 132 |          | 10/10/18 13:40 | 5       |
| 4-Bromofluorobenzene         | 95        |           | 77 - 124 |          | 10/10/18 13:40 | 5       |
| Dibromofluoromethane (Surr)  | 110       |           | 72 - 131 |          | 10/10/18 13:40 | 5       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 10/10/18 13:40 | 5       |

**Client Sample ID: FSMW-13A 09262018**

**Lab Sample ID: 460-165769-3**

**Date Collected: 09/26/18 15:00**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 05:10 | 1       |
| 1,1,2,2-Tetrachloroethane | 0.37   | U         | 1.0 | 0.37 | ug/L |   |          | 10/10/18 05:10 | 1       |
| 1,1,2-Trichloroethane     | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 05:10 | 1       |
| 1,1-Dichloroethane        | 0.26   | U         | 1.0 | 0.26 | ug/L |   |          | 10/10/18 05:10 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-13A 09262018**

**Lab Sample ID: 460-165769-3**

**Date Collected: 09/26/18 15:00**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                       | Result     | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene            | 0.12       | U         | 1.0 | 0.12 | ug/L |   |          | 10/10/18 05:10 | 1       |
| 1,2-Dichloroethane            | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 05:10 | 1       |
| <b>1,2-Dichloropropane</b>    | <b>1.2</b> |           | 1.0 | 0.35 | ug/L |   |          | 10/10/18 05:10 | 1       |
| 2-Butanone (MEK)              | 1.9        | U         | 5.0 | 1.9  | ug/L |   |          | 10/10/18 05:10 | 1       |
| 2-Hexanone                    | 2.9        | U         | 5.0 | 2.9  | ug/L |   |          | 10/10/18 05:10 | 1       |
| 4-Methyl-2-pentanone (MIBK)   | 2.7        | U         | 5.0 | 2.7  | ug/L |   |          | 10/10/18 05:10 | 1       |
| Acetone                       | 5.0        | U         | 5.0 | 5.0  | ug/L |   |          | 10/10/18 05:10 | 1       |
| Benzene                       | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Bromoform                     | 0.54       | U         | 1.0 | 0.54 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Bromomethane                  | 1.0        | U         | 1.0 | 1.0  | ug/L |   |          | 10/10/18 05:10 | 1       |
| Carbon disulfide              | 0.16       | U         | 1.0 | 0.16 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Carbon tetrachloride          | 0.21       | U         | 1.0 | 0.21 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Chlorobenzene                 | 0.38       | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Chlorobromomethane            | 0.41       | U         | 1.0 | 0.41 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Chloroethane                  | 0.32       | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Chloroform                    | 0.33       | U         | 1.0 | 0.33 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Chloromethane                 | 0.14       | U         | 1.0 | 0.14 | ug/L |   |          | 10/10/18 05:10 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>6.5</b> |           | 1.0 | 0.22 | ug/L |   |          | 10/10/18 05:10 | 1       |
| cis-1,3-Dichloropropene       | 0.46       | U         | 1.0 | 0.46 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Ethylbenzene                  | 0.30       | U         | 1.0 | 0.30 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Methylene Chloride            | 0.32       | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Styrene                       | 0.42       | U         | 1.0 | 0.42 | ug/L |   |          | 10/10/18 05:10 | 1       |
| <b>Tetrachloroethene</b>      | <b>190</b> |           | 1.0 | 0.25 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Toluene                       | 0.38       | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 05:10 | 1       |
| trans-1,2-Dichloroethene      | 0.24       | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 05:10 | 1       |
| trans-1,3-Dichloropropene     | 0.49       | U         | 1.0 | 0.49 | ug/L |   |          | 10/10/18 05:10 | 1       |
| <b>Trichloroethene</b>        | <b>5.6</b> |           | 1.0 | 0.31 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Vinyl chloride                | 0.17       | U         | 1.0 | 0.17 | ug/L |   |          | 10/10/18 05:10 | 1       |
| Xylenes, Total                | 0.65       | U         | 2.0 | 0.65 | ug/L |   |          | 10/10/18 05:10 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 99        |           | 74 - 132 |          | 10/10/18 05:10 | 1       |
| 4-Bromofluorobenzene         | 97        |           | 77 - 124 |          | 10/10/18 05:10 | 1       |
| Dibromofluoromethane (Surr)  | 111       |           | 72 - 131 |          | 10/10/18 05:10 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 80 - 120 |          | 10/10/18 05:10 | 1       |

**Client Sample ID: EB1 092618**

**Lab Sample ID: 460-165769-4**

**Date Collected: 09/26/18 11:20**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                   | Result     | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 0.24       | U         | 1.0 | 0.24 | ug/L |   |          | 10/09/18 22:54 | 1       |
| 1,1,2,2-Tetrachloroethane | 0.37       | U         | 1.0 | 0.37 | ug/L |   |          | 10/09/18 22:54 | 1       |
| 1,1,2-Trichloroethane     | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/09/18 22:54 | 1       |
| 1,1-Dichloroethane        | 0.26       | U         | 1.0 | 0.26 | ug/L |   |          | 10/09/18 22:54 | 1       |
| 1,1-Dichloroethene        | 0.12       | U         | 1.0 | 0.12 | ug/L |   |          | 10/09/18 22:54 | 1       |
| 1,2-Dichloroethane        | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/09/18 22:54 | 1       |
| 1,2-Dichloropropane       | 0.35       | U         | 1.0 | 0.35 | ug/L |   |          | 10/09/18 22:54 | 1       |
| <b>2-Butanone (MEK)</b>   | <b>2.3</b> | <b>J</b>  | 5.0 | 1.9  | ug/L |   |          | 10/09/18 22:54 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: EB1 092618**

**Lab Sample ID: 460-165769-4**

**Date Collected: 09/26/18 11:20**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result     | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 2-Hexanone                  | 2.9        | U         | 5.0 | 2.9  | ug/L |   |          | 10/09/18 22:54 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7        | U         | 5.0 | 2.7  | ug/L |   |          | 10/09/18 22:54 | 1       |
| <b>Acetone</b>              | <b>8.2</b> |           | 5.0 | 5.0  | ug/L |   |          | 10/09/18 22:54 | 1       |
| Benzene                     | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Bromoform                   | 0.54       | U         | 1.0 | 0.54 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Bromomethane                | 1.0        | U         | 1.0 | 1.0  | ug/L |   |          | 10/09/18 22:54 | 1       |
| Carbon disulfide            | 0.16       | U         | 1.0 | 0.16 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Carbon tetrachloride        | 0.21       | U         | 1.0 | 0.21 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Chlorobenzene               | 0.38       | U         | 1.0 | 0.38 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Chlorobromomethane          | 0.41       | U         | 1.0 | 0.41 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Chloroethane                | 0.32       | U         | 1.0 | 0.32 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Chloroform                  | 0.33       | U         | 1.0 | 0.33 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Chloromethane               | 0.14       | U         | 1.0 | 0.14 | ug/L |   |          | 10/09/18 22:54 | 1       |
| cis-1,2-Dichloroethene      | 0.22       | U         | 1.0 | 0.22 | ug/L |   |          | 10/09/18 22:54 | 1       |
| cis-1,3-Dichloropropene     | 0.46       | U         | 1.0 | 0.46 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Ethylbenzene                | 0.30       | U         | 1.0 | 0.30 | ug/L |   |          | 10/09/18 22:54 | 1       |
| <b>Methylene Chloride</b>   | <b>1.1</b> |           | 1.0 | 0.32 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Styrene                     | 0.42       | U         | 1.0 | 0.42 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Tetrachloroethene           | 0.25       | U         | 1.0 | 0.25 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Toluene                     | 0.38       | U         | 1.0 | 0.38 | ug/L |   |          | 10/09/18 22:54 | 1       |
| trans-1,2-Dichloroethene    | 0.24       | U         | 1.0 | 0.24 | ug/L |   |          | 10/09/18 22:54 | 1       |
| trans-1,3-Dichloropropene   | 0.49       | U         | 1.0 | 0.49 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Trichloroethene             | 0.31       | U         | 1.0 | 0.31 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Vinyl chloride              | 0.17       | U         | 1.0 | 0.17 | ug/L |   |          | 10/09/18 22:54 | 1       |
| Xylenes, Total              | 0.65       | U         | 2.0 | 0.65 | ug/L |   |          | 10/09/18 22:54 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 74 - 132 |          | 10/09/18 22:54 | 1       |
| 4-Bromofluorobenzene         | 98        |           | 77 - 124 |          | 10/09/18 22:54 | 1       |
| Dibromofluoromethane (Surr)  | 105       |           | 72 - 131 |          | 10/09/18 22:54 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 80 - 120 |          | 10/09/18 22:54 | 1       |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.016     | U         | 0.20     | 0.016 | ug/L | — | 10/01/18 23:59 | 10/02/18 18:07 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 45        |           | 10 - 150 |       |      |   | 10/01/18 23:59 | 10/02/18 18:07 | 1       |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                                 | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|-------------|------------|------|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)           | 0.38        | U          | 1.87 | 0.38 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluoropentanoic acid (PFPeA)         | 0.70        | U          | 1.87 | 0.70 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluorohexanoic acid (PFHxA)          | 0.22        | U          | 1.87 | 0.22 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluoroheptanoic acid (PFHpA)         | 0.30        | U          | 1.87 | 0.30 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| <b>Perfluorooctanoic acid (PFOA)</b>    | <b>0.34</b> | <b>J</b>   | 1.87 | 0.30 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluorononanoic acid (PFNA)           | 0.36        | U          | 1.87 | 0.36 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluorodecanoic acid (PFDA)           | 0.36        | U          | 1.87 | 0.36 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| <b>Perfluoroundecanoic acid (PFUnA)</b> | <b>0.24</b> | <b>J B</b> | 1.87 | 0.23 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluorododecanoic acid (PFDoA)        | 0.33        | U          | 1.87 | 0.33 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: EB1 092618**

**Date Collected: 09/26/18 11:20**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-4**

**Matrix: Water**

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                                                  | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Perfluorotridecanoic acid (PFTriA)                       | 0.22      | U         | 1.87     | 0.22 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | 0.42      | U         | 1.87     | 0.42 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 0.41      | U         | 1.87     | 0.41 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 0.24      | U         | 1.87     | 0.24 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.77      | U         | 1.87     | 0.77 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 0.71      | U         | 1.87     | 0.71 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | 0.50      | U         | 1.87     | 0.50 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | 0.52      | U         | 1.87     | 0.52 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.42      | U         | 18.7     | 0.42 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.65      | U         | 18.7     | 0.65 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.93      | U         | 18.7     | 0.93 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.52      | U         | 18.7     | 0.52 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| Isotope Dilution                                         | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 18O2 PFHxS                                               | 79        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C4 PFHpA                                               | 96        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C4 PFOA                                                | 100       |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C4 PFOS                                                | 72        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C5 PFNA                                                | 104       |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C4 PFBA                                                | 82        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C2 PFHxA                                               | 87        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C2 PFDA                                                | 98        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C2 PFUnA                                               | 103       |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C2 PFDoA                                               | 98        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C8 FOSA                                                | 54        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C5 PFPeA                                               | 80        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C2 PFTeDA                                              | 64        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| d3-NMeFOSAA                                              | 74        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| d5-NEtFOSAA                                              | 93        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| M2-6:2 FTS                                               | 105       |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| M2-8:2 FTS                                               | 105       |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |
| 13C3 PFBS                                                | 80        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:11 | 1       |

**Client Sample ID: FB1 09262018**

**Date Collected: 09/26/18 13:00**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-5**

**Matrix: Water**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/09/18 23:21 | 1       |
| 1,1,2,2-Tetrachloroethane | 0.37   | U         | 1.0 | 0.37 | ug/L |   |          | 10/09/18 23:21 | 1       |
| 1,1,2-Trichloroethane     | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/09/18 23:21 | 1       |
| 1,1-Dichloroethane        | 0.26   | U         | 1.0 | 0.26 | ug/L |   |          | 10/09/18 23:21 | 1       |
| 1,1-Dichloroethene        | 0.12   | U         | 1.0 | 0.12 | ug/L |   |          | 10/09/18 23:21 | 1       |
| 1,2-Dichloroethane        | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/09/18 23:21 | 1       |
| 1,2-Dichloropropane       | 0.35   | U         | 1.0 | 0.35 | ug/L |   |          | 10/09/18 23:21 | 1       |
| 2-Butanone (MEK)          | 1.9    | U         | 5.0 | 1.9  | ug/L |   |          | 10/09/18 23:21 | 1       |

TestAmerica Edison



# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FB1 09262018**

**Lab Sample ID: 460-165769-5**

**Date Collected: 09/26/18 13:00**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 2-Hexanone                  | 2.9    | U         | 5.0 | 2.9  | ug/L |   |          | 10/09/18 23:21 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7    | U         | 5.0 | 2.7  | ug/L |   |          | 10/09/18 23:21 | 1       |
| Acetone                     | 5.0    | U         | 5.0 | 5.0  | ug/L |   |          | 10/09/18 23:21 | 1       |
| Benzene                     | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Bromoform                   | 0.54   | U         | 1.0 | 0.54 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Bromomethane                | 1.0    | U         | 1.0 | 1.0  | ug/L |   |          | 10/09/18 23:21 | 1       |
| Carbon disulfide            | 0.16   | U         | 1.0 | 0.16 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Carbon tetrachloride        | 0.21   | U         | 1.0 | 0.21 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Chlorobenzene               | 0.38   | U         | 1.0 | 0.38 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Chlorobromomethane          | 0.41   | U         | 1.0 | 0.41 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Chloroethane                | 0.32   | U         | 1.0 | 0.32 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Chloroform                  | 0.33   | U         | 1.0 | 0.33 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Chloromethane               | 0.14   | U         | 1.0 | 0.14 | ug/L |   |          | 10/09/18 23:21 | 1       |
| cis-1,2-Dichloroethene      | 0.22   | U         | 1.0 | 0.22 | ug/L |   |          | 10/09/18 23:21 | 1       |
| cis-1,3-Dichloropropene     | 0.46   | U         | 1.0 | 0.46 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Ethylbenzene                | 0.30   | U         | 1.0 | 0.30 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Methylene Chloride          | 0.32   | U         | 1.0 | 0.32 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Styrene                     | 0.42   | U         | 1.0 | 0.42 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Tetrachloroethene           | 0.25   | U         | 1.0 | 0.25 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Toluene                     | 0.38   | U         | 1.0 | 0.38 | ug/L |   |          | 10/09/18 23:21 | 1       |
| trans-1,2-Dichloroethene    | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/09/18 23:21 | 1       |
| trans-1,3-Dichloropropene   | 0.49   | U         | 1.0 | 0.49 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Trichloroethene             | 0.31   | U         | 1.0 | 0.31 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Vinyl chloride              | 0.17   | U         | 1.0 | 0.17 | ug/L |   |          | 10/09/18 23:21 | 1       |
| Xylenes, Total              | 0.65   | U         | 2.0 | 0.65 | ug/L |   |          | 10/09/18 23:21 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 74 - 132 |          | 10/09/18 23:21 | 1       |
| 4-Bromofluorobenzene         | 97        |           | 77 - 124 |          | 10/09/18 23:21 | 1       |
| Dibromofluoromethane (Surr)  | 107       |           | 72 - 131 |          | 10/09/18 23:21 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 10/09/18 23:21 | 1       |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.016     | U         | 0.20     | 0.016 | ug/L | — | 10/01/18 23:59 | 10/02/18 18:25 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 42        |           | 10 - 150 |       |      |   | 10/01/18 23:59 | 10/02/18 18:25 | 1       |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                            | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)      | 0.39   | U         | 1.88 | 0.39 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluoropentanoic acid (PFPeA)    | 0.70   | U         | 1.88 | 0.70 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluorohexanoic acid (PFHxA)     | 0.23   | U         | 1.88 | 0.23 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluoroheptanoic acid (PFHpA)    | 0.30   | U         | 1.88 | 0.30 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluorooctanoic acid (PFOA)      | 0.30   | U         | 1.88 | 0.30 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluorononanoic acid (PFNA)      | 0.36   | U         | 1.88 | 0.36 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluorodecanoic acid (PFDA)      | 0.36   | U         | 1.88 | 0.36 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluoroundecanoic acid (PFUnA)   | 0.23   | U         | 1.88 | 0.23 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluorododecanoic acid (PFDoA)   | 0.33   | U         | 1.88 | 0.33 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluorotridecanoic acid (PFTriA) | 0.23   | U         | 1.88 | 0.23 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |

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# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FB1 09262018**

**Lab Sample ID: 460-165769-5**

**Date Collected: 09/26/18 13:00**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                                                  | Result      | Qualifier  | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|-------------|------------|------|------|------|---|----------------|----------------|---------|
| Perfluorotetradecanoic acid (PFTeA)                      | 0.42        | U          | 1.88 | 0.42 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 0.41        | U          | 1.88 | 0.41 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| <b>Perfluorohexanesulfonic acid (PFHxS)</b>              | <b>0.32</b> | <b>J B</b> | 1.88 | 0.24 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.77        | U          | 1.88 | 0.77 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 0.71        | U          | 1.88 | 0.71 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | 0.50        | U          | 1.88 | 0.50 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | 0.53        | U          | 1.88 | 0.53 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.42        | U          | 18.8 | 0.42 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.66        | U          | 18.8 | 0.66 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.94        | U          | 18.8 | 0.94 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.53        | U          | 18.8 | 0.53 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:26 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 18O2 PFHxS       | 70        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C4 PFHpA       | 94        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C4 PFOA        | 99        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C4 PFOS        | 71        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C5 PFNA        | 97        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C4 PFBA        | 91        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C2 PFHxA       | 79        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C2 PFDA        | 101       |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C2 PFUnA       | 97        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C2 PFDoA       | 89        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C8 FOSA        | 52        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C5 PFPeA       | 90        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C2 PFTeDA      | 86        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| d3-NMeFOSAA      | 70        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| d5-NEtFOSAA      | 89        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| M2-6:2 FTS       | 102       |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| M2-8:2 FTS       | 102       |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |
| 13C3 PFBS        | 74        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 21:26 | 1       |

**Client Sample ID: FSMW-8A 09272018**

**Lab Sample ID: 460-165769-6**

**Date Collected: 09/27/18 11:00**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/11/18 11:49 | 1       |
| 1,1,2,2-Tetrachloroethane | 0.37   | U         | 1.0 | 0.37 | ug/L |   |          | 10/11/18 11:49 | 1       |
| 1,1,2-Trichloroethane     | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/11/18 11:49 | 1       |
| 1,1-Dichloroethane        | 0.26   | U         | 1.0 | 0.26 | ug/L |   |          | 10/11/18 11:49 | 1       |
| 1,1-Dichloroethene        | 0.12   | U         | 1.0 | 0.12 | ug/L |   |          | 10/11/18 11:49 | 1       |
| 1,2-Dichloroethane        | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/11/18 11:49 | 1       |
| 1,2-Dichloropropane       | 0.35   | U         | 1.0 | 0.35 | ug/L |   |          | 10/11/18 11:49 | 1       |
| 2-Butanone (MEK)          | 1.9    | U         | 5.0 | 1.9  | ug/L |   |          | 10/11/18 11:49 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-8A 09272018**

**Lab Sample ID: 460-165769-6**

**Date Collected: 09/27/18 11:00**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                       | Result      | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 2-Hexanone                    | 2.9         | U         | 5.0 | 2.9  | ug/L |   |          | 10/11/18 11:49 | 1       |
| 4-Methyl-2-pentanone (MIBK)   | 2.7         | U         | 5.0 | 2.7  | ug/L |   |          | 10/11/18 11:49 | 1       |
| Acetone                       | 5.0         | U         | 5.0 | 5.0  | ug/L |   |          | 10/11/18 11:49 | 1       |
| Benzene                       | 0.43        | U         | 1.0 | 0.43 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Bromoform                     | 0.54        | U         | 1.0 | 0.54 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Bromomethane                  | 1.0         | U         | 1.0 | 1.0  | ug/L |   |          | 10/11/18 11:49 | 1       |
| Carbon disulfide              | 0.16        | U         | 1.0 | 0.16 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Carbon tetrachloride          | 0.21        | U         | 1.0 | 0.21 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Chlorobenzene                 | 0.38        | U         | 1.0 | 0.38 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Chlorobromomethane            | 0.41        | U         | 1.0 | 0.41 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Chloroethane                  | 0.32        | U         | 1.0 | 0.32 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Chloroform                    | 0.33        | U         | 1.0 | 0.33 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Chloromethane                 | 0.14        | U         | 1.0 | 0.14 | ug/L |   |          | 10/11/18 11:49 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>0.92</b> | <b>J</b>  | 1.0 | 0.22 | ug/L |   |          | 10/11/18 11:49 | 1       |
| cis-1,3-Dichloropropene       | 0.46        | U         | 1.0 | 0.46 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Ethylbenzene                  | 0.30        | U         | 1.0 | 0.30 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Methylene Chloride            | 0.32        | U         | 1.0 | 0.32 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Styrene                       | 0.42        | U         | 1.0 | 0.42 | ug/L |   |          | 10/11/18 11:49 | 1       |
| <b>Tetrachloroethene</b>      | <b>15</b>   |           | 1.0 | 0.25 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Toluene                       | 0.38        | U         | 1.0 | 0.38 | ug/L |   |          | 10/11/18 11:49 | 1       |
| trans-1,2-Dichloroethene      | 0.24        | U         | 1.0 | 0.24 | ug/L |   |          | 10/11/18 11:49 | 1       |
| trans-1,3-Dichloropropene     | 0.49        | U         | 1.0 | 0.49 | ug/L |   |          | 10/11/18 11:49 | 1       |
| <b>Trichloroethene</b>        | <b>0.66</b> | <b>J</b>  | 1.0 | 0.31 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Vinyl chloride                | 0.17        | U         | 1.0 | 0.17 | ug/L |   |          | 10/11/18 11:49 | 1       |
| Xylenes, Total                | 0.65        | U         | 2.0 | 0.65 | ug/L |   |          | 10/11/18 11:49 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 74 - 132 |          | 10/11/18 11:49 | 1       |
| 4-Bromofluorobenzene         | 95        |           | 77 - 124 |          | 10/11/18 11:49 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 72 - 131 |          | 10/11/18 11:49 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 10/11/18 11:49 | 1       |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.016     | U         | 0.20     | 0.016 | ug/L | — | 10/01/18 23:59 | 10/02/18 18:42 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 40        |           | 10 - 150 |       |      |   | 10/01/18 23:59 | 10/02/18 18:42 | 1       |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                          | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)    | 11.9   | B         | 1.85 | 0.38 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluoropentanoic acid (PFPeA)  | 18.2   |           | 1.85 | 0.69 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorohexanoic acid (PFHxA)   | 13.1   |           | 1.85 | 0.22 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluoroheptanoic acid (PFHpA)  | 12.0   |           | 1.85 | 0.30 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorooctanoic acid (PFOA)    | 19.2   |           | 1.85 | 0.30 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorononanoic acid (PFNA)    | 3.60   |           | 1.85 | 0.35 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorodecanoic acid (PFDA)    | 0.57   | J         | 1.85 | 0.35 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluoroundecanoic acid (PFUnA) | 0.32   | J B       | 1.85 | 0.23 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorododecanoic acid (PFDoA) | 0.32   | U         | 1.85 | 0.32 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-8A 09272018**

**Lab Sample ID: 460-165769-6**

**Date Collected: 09/27/18 11:00**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                                                  | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Perfluorotridecanoic acid (PFTriA)                       | 0.22      | U         | 1.85     | 0.22 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | 0.42      | U         | 1.85     | 0.42 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 5.76      |           | 1.85     | 0.41 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 1.20      | J B       | 1.85     | 0.24 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.76      | U         | 1.85     | 0.76 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 4.15      |           | 1.85     | 0.70 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | 0.49      | U         | 1.85     | 0.49 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | 0.52      | U         | 1.85     | 0.52 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.42      | U         | 18.5     | 0.42 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.65      | U         | 18.5     | 0.65 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.92      | U         | 18.5     | 0.92 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.52      | U         | 18.5     | 0.52 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| Isotope Dilution                                         | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 18O2 PFHxS                                               | 88        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C4 PFHpA                                               | 76        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C4 PFOA                                                | 100       |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C4 PFOS                                                | 92        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C5 PFNA                                                | 103       |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C4 PFBA                                                | 22 *      |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C2 PFHxA                                               | 45        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C2 PFDA                                                | 107       |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C2 PFUnA                                               | 111       |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C2 PFDoA                                               | 99        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C8 FOSA                                                | 67        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C5 PFPeA                                               | 39        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C2 PFTeDA                                              | 104       |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| d3-NMeFOSAA                                              | 83        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| d5-NEtFOSAA                                              | 91        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| M2-6:2 FTS                                               | 217 *     |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| M2-8:2 FTS                                               | 209 *     |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |
| 13C3 PFBS                                                | 70        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 21:42 | 1       |

**Client Sample ID: FSMW-1A 09272018**

**Lab Sample ID: 460-165769-7**

**Date Collected: 09/27/18 14:20**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 06:03 | 1       |
| 1,1,2,2-Tetrachloroethane | 0.37   | U         | 1.0 | 0.37 | ug/L |   |          | 10/10/18 06:03 | 1       |
| 1,1,2-Trichloroethane     | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 06:03 | 1       |
| 1,1-Dichloroethane        | 0.26   | U         | 1.0 | 0.26 | ug/L |   |          | 10/10/18 06:03 | 1       |
| 1,1-Dichloroethene        | 0.12   | U         | 1.0 | 0.12 | ug/L |   |          | 10/10/18 06:03 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-1A 09272018**

**Lab Sample ID: 460-165769-7**

**Date Collected: 09/27/18 14:20**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                         | Result      | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane              | 0.43        | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 06:03 | 1       |
| 1,2-Dichloropropane             | 0.35        | U         | 1.0 | 0.35 | ug/L |   |          | 10/10/18 06:03 | 1       |
| 2-Butanone (MEK)                | 1.9         | U         | 5.0 | 1.9  | ug/L |   |          | 10/10/18 06:03 | 1       |
| 2-Hexanone                      | 2.9         | U         | 5.0 | 2.9  | ug/L |   |          | 10/10/18 06:03 | 1       |
| 4-Methyl-2-pentanone (MIBK)     | 2.7         | U         | 5.0 | 2.7  | ug/L |   |          | 10/10/18 06:03 | 1       |
| Acetone                         | 5.0         | U         | 5.0 | 5.0  | ug/L |   |          | 10/10/18 06:03 | 1       |
| Benzene                         | 0.43        | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Bromoform                       | 0.54        | U         | 1.0 | 0.54 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Bromomethane                    | 1.0         | U         | 1.0 | 1.0  | ug/L |   |          | 10/10/18 06:03 | 1       |
| Carbon disulfide                | 0.16        | U         | 1.0 | 0.16 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Carbon tetrachloride            | 0.21        | U         | 1.0 | 0.21 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Chlorobenzene                   | 0.38        | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Chlorobromomethane              | 0.41        | U         | 1.0 | 0.41 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Chloroethane                    | 0.32        | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Chloroform                      | 0.33        | U         | 1.0 | 0.33 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Chloromethane                   | 0.14        | U         | 1.0 | 0.14 | ug/L |   |          | 10/10/18 06:03 | 1       |
| <b>cis-1,2-Dichloroethene</b>   | <b>36</b>   |           | 1.0 | 0.22 | ug/L |   |          | 10/10/18 06:03 | 1       |
| cis-1,3-Dichloropropene         | 0.46        | U         | 1.0 | 0.46 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Ethylbenzene                    | 0.30        | U         | 1.0 | 0.30 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Methylene Chloride              | 0.32        | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Styrene                         | 0.42        | U         | 1.0 | 0.42 | ug/L |   |          | 10/10/18 06:03 | 1       |
| <b>Tetrachloroethene</b>        | <b>140</b>  |           | 1.0 | 0.25 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Toluene                         | 0.38        | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 06:03 | 1       |
| <b>trans-1,2-Dichloroethene</b> | <b>0.28</b> | <b>J</b>  | 1.0 | 0.24 | ug/L |   |          | 10/10/18 06:03 | 1       |
| trans-1,3-Dichloropropene       | 0.49        | U         | 1.0 | 0.49 | ug/L |   |          | 10/10/18 06:03 | 1       |
| <b>Trichloroethene</b>          | <b>24</b>   |           | 1.0 | 0.31 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Vinyl chloride                  | 0.17        | U         | 1.0 | 0.17 | ug/L |   |          | 10/10/18 06:03 | 1       |
| Xylenes, Total                  | 0.65        | U         | 2.0 | 0.65 | ug/L |   |          | 10/10/18 06:03 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 74 - 132 |          | 10/10/18 06:03 | 1       |
| 4-Bromofluorobenzene         | 93        |           | 77 - 124 |          | 10/10/18 06:03 | 1       |
| Dibromofluoromethane (Surr)  | 110       |           | 72 - 131 |          | 10/10/18 06:03 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 10/10/18 06:03 | 1       |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.016     | U         | 0.20     | 0.016 | ug/L |   | 10/01/18 23:59 | 10/02/18 18:59 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 40        |           | 10 - 150 |       |      |   | 10/01/18 23:59 | 10/02/18 18:59 | 1       |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                         | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)   | 4.07   | B         | 1.64 | 0.34 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:58 | 1       |
| Perfluoropentanoic acid (PFPeA) | 10.9   |           | 1.64 | 0.61 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:58 | 1       |
| Perfluorohexanoic acid (PFHxA)  | 5.65   |           | 1.64 | 0.20 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:58 | 1       |
| Perfluoroheptanoic acid (PFHpA) | 3.69   |           | 1.64 | 0.26 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:58 | 1       |
| Perfluorooctanoic acid (PFOA)   | 6.74   |           | 1.64 | 0.26 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:58 | 1       |
| Perfluorononanoic acid (PFNA)   | 0.31   | U         | 1.64 | 0.31 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:58 | 1       |
| Perfluorodecanoic acid (PFDA)   | 3.28   |           | 1.64 | 0.31 | ng/L |   | 10/05/18 12:20 | 10/12/18 21:58 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-1A 09272018**

**Lab Sample ID: 460-165769-7**

**Date Collected: 09/27/18 14:20**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                                                  | Result           | Qualifier        | RL            | MDL  | Unit | D | Prepared        | Analyzed        | Dil Fac        |
|----------------------------------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| <b>Perfluoroundecanoic acid (PFUnA)</b>                  | <b>3.55</b>      | <b>B</b>         | 1.64          | 0.20 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| Perfluorododecanoic acid (PFDaA)                         | 0.29             | U                | 1.64          | 0.29 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| Perfluorotridecanoic acid (PFTriA)                       | 0.20             | U                | 1.64          | 0.20 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| Perfluorotetradecanoic acid (PFTeA)                      | 0.37             | U                | 1.64          | 0.37 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| <b>Perfluorobutanesulfonic acid (PFBS)</b>               | <b>1.01</b>      | <b>J</b>         | 1.64          | 0.36 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| <b>Perfluorohexanesulfonic acid (PFHxS)</b>              | <b>0.82</b>      | <b>J B</b>       | 1.64          | 0.21 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.67             | U                | 1.64          | 0.67 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| <b>Perfluorooctanesulfonic acid (PFOS)</b>               | <b>7.18</b>      |                  | 1.64          | 0.62 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| Perfluorodecanesulfonic acid (PFDS)                      | 0.43             | U                | 1.64          | 0.43 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| Perfluorooctanesulfonamide (PFOSA)                       | 0.46             | U                | 1.64          | 0.46 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.37             | U                | 16.4          | 0.37 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.57             | U                | 16.4          | 0.57 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| <b>1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)</b>    | <b>26.6</b>      |                  | 16.4          | 0.82 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.46             | U                | 16.4          | 0.46 | ng/L |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| <i>Isotope Dilution</i>                                  | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |      |      |   | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 18O2 PFHxS                                               | 89               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C4 PFHpA                                               | 75               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C4 PFOA                                                | 88               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C4 PFOS                                                | 85               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C5 PFNA                                                | 95               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C4 PFBA                                                | 29               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C2 PFHxA                                               | 53               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C2 PFDA                                                | 96               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C2 PFUnA                                               | 92               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C2 PFDaA                                               | 89               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C8 FOSA                                                | 56               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C5 PFPeA                                               | 41               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C2 PFTeDA                                              | 92               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| d3-NMeFOSAA                                              | 74               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| d5-NEtFOSAA                                              | 80               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| M2-6:2 FTS                                               | 201              | *                | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| M2-8:2 FTS                                               | 166              | *                | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |
| 13C3 PFBS                                                | 66               |                  | 25 - 150      |      |      |   | 10/05/18 12:20  | 10/12/18 21:58  | 1              |

**Client Sample ID: EB2 09272018**

**Lab Sample ID: 460-165769-8**

**Date Collected: 09/27/18 11:30**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/09/18 23:47 | 1       |
| 1,1,2,2-Tetrachloroethane | 0.37   | U         | 1.0 | 0.37 | ug/L |   |          | 10/09/18 23:47 | 1       |
| 1,1,2-Trichloroethane     | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/09/18 23:47 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: EB2 09272018**

**Lab Sample ID: 460-165769-8**

**Date Collected: 09/27/18 11:30**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result     | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethane          | 0.26       | U         | 1.0 | 0.26 | ug/L |   |          | 10/09/18 23:47 | 1       |
| 1,1-Dichloroethene          | 0.12       | U         | 1.0 | 0.12 | ug/L |   |          | 10/09/18 23:47 | 1       |
| 1,2-Dichloroethane          | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/09/18 23:47 | 1       |
| 1,2-Dichloropropane         | 0.35       | U         | 1.0 | 0.35 | ug/L |   |          | 10/09/18 23:47 | 1       |
| <b>2-Butanone (MEK)</b>     | <b>2.3</b> | <b>J</b>  | 5.0 | 1.9  | ug/L |   |          | 10/09/18 23:47 | 1       |
| 2-Hexanone                  | 2.9        | U         | 5.0 | 2.9  | ug/L |   |          | 10/09/18 23:47 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7        | U         | 5.0 | 2.7  | ug/L |   |          | 10/09/18 23:47 | 1       |
| <b>Acetone</b>              | <b>6.6</b> |           | 5.0 | 5.0  | ug/L |   |          | 10/09/18 23:47 | 1       |
| Benzene                     | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Bromoform                   | 0.54       | U         | 1.0 | 0.54 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Bromomethane                | 1.0        | U         | 1.0 | 1.0  | ug/L |   |          | 10/09/18 23:47 | 1       |
| Carbon disulfide            | 0.16       | U         | 1.0 | 0.16 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Carbon tetrachloride        | 0.21       | U         | 1.0 | 0.21 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Chlorobenzene               | 0.38       | U         | 1.0 | 0.38 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Chlorobromomethane          | 0.41       | U         | 1.0 | 0.41 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Chloroethane                | 0.32       | U         | 1.0 | 0.32 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Chloroform                  | 0.33       | U         | 1.0 | 0.33 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Chloromethane               | 0.14       | U         | 1.0 | 0.14 | ug/L |   |          | 10/09/18 23:47 | 1       |
| cis-1,2-Dichloroethene      | 0.22       | U         | 1.0 | 0.22 | ug/L |   |          | 10/09/18 23:47 | 1       |
| cis-1,3-Dichloropropene     | 0.46       | U         | 1.0 | 0.46 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Ethylbenzene                | 0.30       | U         | 1.0 | 0.30 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Methylene Chloride          | 0.32       | U         | 1.0 | 0.32 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Styrene                     | 0.42       | U         | 1.0 | 0.42 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Tetrachloroethene           | 0.25       | U         | 1.0 | 0.25 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Toluene                     | 0.38       | U         | 1.0 | 0.38 | ug/L |   |          | 10/09/18 23:47 | 1       |
| trans-1,2-Dichloroethene    | 0.24       | U         | 1.0 | 0.24 | ug/L |   |          | 10/09/18 23:47 | 1       |
| trans-1,3-Dichloropropene   | 0.49       | U         | 1.0 | 0.49 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Trichloroethene             | 0.31       | U         | 1.0 | 0.31 | ug/L |   |          | 10/09/18 23:47 | 1       |
| Vinyl chloride              | 0.17       | U         | 1.0 | 0.17 | ug/L |   |          | 10/09/18 23:47 | 1       |
| <b>Xylenes, Total</b>       | <b>1.6</b> | <b>J</b>  | 2.0 | 0.65 | ug/L |   |          | 10/09/18 23:47 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 92        |           | 74 - 132 |          | 10/09/18 23:47 | 1       |
| 4-Bromofluorobenzene         | 89        |           | 77 - 124 |          | 10/09/18 23:47 | 1       |
| Dibromofluoromethane (Surr)  | 106       |           | 72 - 131 |          | 10/09/18 23:47 | 1       |
| Toluene-d8 (Surr)            | 88        |           | 80 - 120 |          | 10/09/18 23:47 | 1       |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.016     | U         | 0.20     | 0.016 | ug/L | — | 10/04/18 22:46 | 10/05/18 09:36 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 47        |           | 10 - 150 |       |      |   | 10/04/18 22:46 | 10/05/18 09:36 | 1       |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                         | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)   | 0.36   | U         | 1.77 | 0.36 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluoropentanoic acid (PFPeA) | 0.66   | U         | 1.77 | 0.66 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorohexanoic acid (PFHxA)  | 0.21   | U         | 1.77 | 0.21 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluoroheptanoic acid (PFHpA) | 0.28   | U         | 1.77 | 0.28 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorooctanoic acid (PFOA)   | 0.28   | U         | 1.77 | 0.28 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |

TestAmerica Edison



# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: EB2 09272018**

**Lab Sample ID: 460-165769-8**

**Date Collected: 09/27/18 11:30**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                                                  | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
| Perfluorononanoic acid (PFNA)                            | 0.34      | U         | 1.77     | 0.34 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorodecanoic acid (PFDA)                            | 0.34      | U         | 1.77     | 0.34 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | 0.22      | U         | 1.77     | 0.22 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | 0.31      | U         | 1.77     | 0.31 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | 0.21      | U         | 1.77     | 0.21 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | 0.40      | U         | 1.77     | 0.40 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 0.39      | U         | 1.77     | 0.39 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 0.23      | U         | 1.77     | 0.23 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.72      | U         | 1.77     | 0.72 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 0.67      | U         | 1.77     | 0.67 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | 0.47      | U         | 1.77     | 0.47 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | 0.49      | U         | 1.77     | 0.49 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.40      | U         | 17.7     | 0.40 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.62      | U         | 17.7     | 0.62 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.88      | U         | 17.7     | 0.88 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.49      | U         | 17.7     | 0.49 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| Isotope Dilution                                         | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 18O2 PFHxS                                               | 89        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C4 PFHpA                                               | 89        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C4 PFOA                                                | 95        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C4 PFOS                                                | 84        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C5 PFNA                                                | 92        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C4 PFBA                                                | 84        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C2 PFHxA                                               | 88        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C2 PFDA                                                | 92        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C2 PFUnA                                               | 94        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C2 PFDoA                                               | 88        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C8 FOSA                                                | 52        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C5 PFPeA                                               | 83        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C2 PFTeDA                                              | 86        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| d3-NMeFOSAA                                              | 77        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| d5-NEtFOSAA                                              | 84        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| M2-6:2 FTS                                               | 87        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| M2-8:2 FTS                                               | 89        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |
| 13C3 PFBS                                                | 93        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 22:14 | 1       |

**Client Sample ID: FB2 09272018**

**Lab Sample ID: 460-165769-9**

**Date Collected: 09/27/18 13:00**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 00:14 | 1       |
| 1,1,2,2-Tetrachloroethane | 0.37   | U         | 1.0 | 0.37 | ug/L |   |          | 10/10/18 00:14 | 1       |
| 1,1,2-Trichloroethane     | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 00:14 | 1       |
| 1,1-Dichloroethane        | 0.26   | U         | 1.0 | 0.26 | ug/L |   |          | 10/10/18 00:14 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FB2 09272018**

**Lab Sample ID: 460-165769-9**

**Date Collected: 09/27/18 13:00**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result     | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene          | 0.12       | U         | 1.0 | 0.12 | ug/L |   |          | 10/10/18 00:14 | 1       |
| 1,2-Dichloroethane          | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 00:14 | 1       |
| 1,2-Dichloropropane         | 0.35       | U         | 1.0 | 0.35 | ug/L |   |          | 10/10/18 00:14 | 1       |
| 2-Butanone (MEK)            | 1.9        | U         | 5.0 | 1.9  | ug/L |   |          | 10/10/18 00:14 | 1       |
| 2-Hexanone                  | 2.9        | U         | 5.0 | 2.9  | ug/L |   |          | 10/10/18 00:14 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7        | U         | 5.0 | 2.7  | ug/L |   |          | 10/10/18 00:14 | 1       |
| Acetone                     | 5.0        | U         | 5.0 | 5.0  | ug/L |   |          | 10/10/18 00:14 | 1       |
| Benzene                     | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Bromoform                   | 0.54       | U         | 1.0 | 0.54 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Bromomethane                | 1.0        | U         | 1.0 | 1.0  | ug/L |   |          | 10/10/18 00:14 | 1       |
| Carbon disulfide            | 0.16       | U         | 1.0 | 0.16 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Carbon tetrachloride        | 0.21       | U         | 1.0 | 0.21 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Chlorobenzene               | 0.38       | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Chlorobromomethane          | 0.41       | U         | 1.0 | 0.41 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Chloroethane                | 0.32       | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Chloroform                  | 0.33       | U         | 1.0 | 0.33 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Chloromethane               | 0.14       | U         | 1.0 | 0.14 | ug/L |   |          | 10/10/18 00:14 | 1       |
| cis-1,2-Dichloroethene      | 0.22       | U         | 1.0 | 0.22 | ug/L |   |          | 10/10/18 00:14 | 1       |
| cis-1,3-Dichloropropene     | 0.46       | U         | 1.0 | 0.46 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Ethylbenzene                | 0.30       | U         | 1.0 | 0.30 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Methylene Chloride          | 0.32       | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Styrene                     | 0.42       | U         | 1.0 | 0.42 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Tetrachloroethene           | 0.25       | U         | 1.0 | 0.25 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Toluene                     | 0.38       | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 00:14 | 1       |
| trans-1,2-Dichloroethene    | 0.24       | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 00:14 | 1       |
| trans-1,3-Dichloropropene   | 0.49       | U         | 1.0 | 0.49 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Trichloroethene             | 0.31       | U         | 1.0 | 0.31 | ug/L |   |          | 10/10/18 00:14 | 1       |
| Vinyl chloride              | 0.17       | U         | 1.0 | 0.17 | ug/L |   |          | 10/10/18 00:14 | 1       |
| <b>Xylenes, Total</b>       | <b>1.1</b> | <b>J</b>  | 2.0 | 0.65 | ug/L |   |          | 10/10/18 00:14 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 74 - 132 |          | 10/10/18 00:14 | 1       |
| 4-Bromofluorobenzene         | 96        |           | 77 - 124 |          | 10/10/18 00:14 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 72 - 131 |          | 10/10/18 00:14 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 80 - 120 |          | 10/10/18 00:14 | 1       |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

| Analyte          | Result    | Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|-------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.016     | U         | 0.20     | 0.016 | ug/L | — | 10/01/18 23:59 | 10/02/18 19:17 | 1       |
| Isotope Dilution | %Recovery | Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 39        |           | 10 - 150 |       |      |   | 10/01/18 23:59 | 10/02/18 19:17 | 1       |

## Method: 537 (modified) - Fluorinated Alkyl Substances

| Analyte                         | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)   | 0.38   | U         | 1.83 | 0.38 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluoropentanoic acid (PFPeA) | 0.69   | U         | 1.83 | 0.69 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorohexanoic acid (PFHxA)  | 0.22   | U         | 1.83 | 0.22 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluoroheptanoic acid (PFHpA) | 0.29   | U         | 1.83 | 0.29 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorooctanoic acid (PFOA)   | 0.29   | U         | 1.83 | 0.29 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorononanoic acid (PFNA)   | 0.35   | U         | 1.83 | 0.35 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |

TestAmerica Edison



# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FB2 09272018**

**Lab Sample ID: 460-165769-9**

**Date Collected: 09/27/18 13:00**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

| Analyte                                                  | Result | Qualifier | RL   | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| Perfluorodecanoic acid (PFDA)                            | 0.35   | U         | 1.83 | 0.35 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | 0.23   | U         | 1.83 | 0.23 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | 0.32   | U         | 1.83 | 0.32 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | 0.22   | U         | 1.83 | 0.22 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | 0.41   | U         | 1.83 | 0.41 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 0.40   | U         | 1.83 | 0.40 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 0.24   | U         | 1.83 | 0.24 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.75   | U         | 1.83 | 0.75 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 0.70   | U         | 1.83 | 0.70 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | 0.48   | U         | 1.83 | 0.48 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | 0.51   | U         | 1.83 | 0.51 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.41   | U         | 18.3 | 0.41 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.64   | U         | 18.3 | 0.64 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.91   | U         | 18.3 | 0.91 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.51   | U         | 18.3 | 0.51 | ng/L |   | 10/05/18 12:20 | 10/12/18 22:30 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 18O2 PFHxS       | 76        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C4 PFHpA       | 90        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C4 PFOA        | 94        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C4 PFOS        | 77        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C5 PFNA        | 88        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C4 PFBA        | 75        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C2 PFHxA       | 83        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C2 PFDA        | 83        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C2 PFUnA       | 92        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C2 PFDoA       | 84        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C8 FOSA        | 45        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C5 PFPeA       | 77        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C2 PFTeDA      | 85        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| d3-NMeFOSAA      | 73        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| d5-NEtFOSAA      | 80        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| M2-6:2 FTS       | 94        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| M2-8:2 FTS       | 93        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |
| 13C3 PFBS        | 85        |           | 25 - 150 | 10/05/18 12:20 | 10/12/18 22:30 | 1       |

**Client Sample ID: FSMW-4A 09282018**

**Lab Sample ID: 460-165769-10**

**Date Collected: 09/28/18 11:55**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 06:30 | 1       |
| 1,1,2,2-Tetrachloroethane | 0.37   | U         | 1.0 | 0.37 | ug/L |   |          | 10/10/18 06:30 | 1       |
| 1,1,2-Trichloroethane     | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 06:30 | 1       |
| 1,1-Dichloroethane        | 0.26   | U         | 1.0 | 0.26 | ug/L |   |          | 10/10/18 06:30 | 1       |
| 1,1-Dichloroethene        | 0.12   | U         | 1.0 | 0.12 | ug/L |   |          | 10/10/18 06:30 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-4A 09282018**

**Lab Sample ID: 460-165769-10**

**Date Collected: 09/28/18 11:55**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                       | Result      | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane            | 0.43        | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 06:30 | 1       |
| 1,2-Dichloropropane           | 0.35        | U         | 1.0 | 0.35 | ug/L |   |          | 10/10/18 06:30 | 1       |
| 2-Butanone (MEK)              | 1.9         | U         | 5.0 | 1.9  | ug/L |   |          | 10/10/18 06:30 | 1       |
| 2-Hexanone                    | 2.9         | U         | 5.0 | 2.9  | ug/L |   |          | 10/10/18 06:30 | 1       |
| 4-Methyl-2-pentanone (MIBK)   | 2.7         | U         | 5.0 | 2.7  | ug/L |   |          | 10/10/18 06:30 | 1       |
| Acetone                       | 5.0         | U         | 5.0 | 5.0  | ug/L |   |          | 10/10/18 06:30 | 1       |
| Benzene                       | 0.43        | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Bromoform                     | 0.54        | U         | 1.0 | 0.54 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Bromomethane                  | 1.0         | U         | 1.0 | 1.0  | ug/L |   |          | 10/10/18 06:30 | 1       |
| Carbon disulfide              | 0.16        | U         | 1.0 | 0.16 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Carbon tetrachloride          | 0.21        | U         | 1.0 | 0.21 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Chlorobenzene                 | 0.38        | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Chlorobromomethane            | 0.41        | U         | 1.0 | 0.41 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Chloroethane                  | 0.32        | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Chloroform                    | 0.33        | U         | 1.0 | 0.33 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Chloromethane                 | 0.14        | U         | 1.0 | 0.14 | ug/L |   |          | 10/10/18 06:30 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>0.40</b> | <b>J</b>  | 1.0 | 0.22 | ug/L |   |          | 10/10/18 06:30 | 1       |
| cis-1,3-Dichloropropene       | 0.46        | U         | 1.0 | 0.46 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Ethylbenzene                  | 0.30        | U         | 1.0 | 0.30 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Methylene Chloride            | 0.32        | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Styrene                       | 0.42        | U         | 1.0 | 0.42 | ug/L |   |          | 10/10/18 06:30 | 1       |
| <b>Tetrachloroethene</b>      | <b>51</b>   |           | 1.0 | 0.25 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Toluene                       | 0.38        | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 06:30 | 1       |
| trans-1,2-Dichloroethene      | 0.24        | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 06:30 | 1       |
| trans-1,3-Dichloropropene     | 0.49        | U         | 1.0 | 0.49 | ug/L |   |          | 10/10/18 06:30 | 1       |
| <b>Trichloroethene</b>        | <b>0.49</b> | <b>J</b>  | 1.0 | 0.31 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Vinyl chloride                | 0.17        | U         | 1.0 | 0.17 | ug/L |   |          | 10/10/18 06:30 | 1       |
| Xylenes, Total                | 0.65        | U         | 2.0 | 0.65 | ug/L |   |          | 10/10/18 06:30 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 74 - 132 |          | 10/10/18 06:30 | 1       |
| 4-Bromofluorobenzene         | 95        |           | 77 - 124 |          | 10/10/18 06:30 | 1       |
| Dibromofluoromethane (Surr)  | 111       |           | 72 - 131 |          | 10/10/18 06:30 | 1       |
| Toluene-d8 (Surr)            | 91        |           | 80 - 120 |          | 10/10/18 06:30 | 1       |

**Client Sample ID: FSMW-2B 09282018**

**Lab Sample ID: 460-165769-11**

**Date Collected: 09/28/18 13:50**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/11/18 01:06 | 1       |
| 1,1,1,2-Tetrachloroethane | 0.37   | U         | 1.0 | 0.37 | ug/L |   |          | 10/11/18 01:06 | 1       |
| 1,1,2-Trichloroethane     | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/11/18 01:06 | 1       |
| 1,1-Dichloroethane        | 0.26   | U         | 1.0 | 0.26 | ug/L |   |          | 10/11/18 01:06 | 1       |
| 1,1-Dichloroethene        | 0.12   | U         | 1.0 | 0.12 | ug/L |   |          | 10/11/18 01:06 | 1       |
| 1,2-Dichloroethane        | 0.43   | U         | 1.0 | 0.43 | ug/L |   |          | 10/11/18 01:06 | 1       |
| 1,2-Dichloropropane       | 0.35   | U         | 1.0 | 0.35 | ug/L |   |          | 10/11/18 01:06 | 1       |
| 2-Butanone (MEK)          | 1.9    | U *       | 5.0 | 1.9  | ug/L |   |          | 10/11/18 01:06 | 1       |
| 2-Hexanone                | 2.9    | U         | 5.0 | 2.9  | ug/L |   |          | 10/11/18 01:06 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-2B 09282018**

**Lab Sample ID: 460-165769-11**

**Date Collected: 09/28/18 13:50**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                     | Result      | Qualifier  | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-------------|------------|-----|------|------|---|----------|----------------|---------|
| 4-Methyl-2-pentanone (MIBK) | 2.7         | U          | 5.0 | 2.7  | ug/L |   |          | 10/11/18 01:06 | 1       |
| Acetone                     | 5.0         | U          | 5.0 | 5.0  | ug/L |   |          | 10/11/18 01:06 | 1       |
| Benzene                     | 0.43        | U          | 1.0 | 0.43 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Bromoform                   | 0.54        | U          | 1.0 | 0.54 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Bromomethane                | 1.0         | U          | 1.0 | 1.0  | ug/L |   |          | 10/11/18 01:06 | 1       |
| Carbon disulfide            | 0.16        | U          | 1.0 | 0.16 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Carbon tetrachloride        | 0.21        | U          | 1.0 | 0.21 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Chlorobenzene               | 0.38        | U          | 1.0 | 0.38 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Chlorobromomethane          | 0.41        | U          | 1.0 | 0.41 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Chloroethane                | 0.32        | U          | 1.0 | 0.32 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Chloroform                  | 0.33        | U          | 1.0 | 0.33 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Chloromethane               | 0.14        | U          | 1.0 | 0.14 | ug/L |   |          | 10/11/18 01:06 | 1       |
| cis-1,2-Dichloroethene      | 0.22        | U          | 1.0 | 0.22 | ug/L |   |          | 10/11/18 01:06 | 1       |
| cis-1,3-Dichloropropene     | 0.46        | U          | 1.0 | 0.46 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Ethylbenzene                | 0.30        | U          | 1.0 | 0.30 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Methylene Chloride          | 0.32        | U          | 1.0 | 0.32 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Styrene                     | 0.42        | U          | 1.0 | 0.42 | ug/L |   |          | 10/11/18 01:06 | 1       |
| <b>Tetrachloroethene</b>    | <b>0.62</b> | <b>J *</b> | 1.0 | 0.25 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Toluene                     | 0.38        | U          | 1.0 | 0.38 | ug/L |   |          | 10/11/18 01:06 | 1       |
| trans-1,2-Dichloroethene    | 0.24        | U          | 1.0 | 0.24 | ug/L |   |          | 10/11/18 01:06 | 1       |
| trans-1,3-Dichloropropene   | 0.49        | U          | 1.0 | 0.49 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Trichloroethene             | 0.31        | U          | 1.0 | 0.31 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Vinyl chloride              | 0.17        | U          | 1.0 | 0.17 | ug/L |   |          | 10/11/18 01:06 | 1       |
| Xylenes, Total              | 0.65        | U          | 2.0 | 0.65 | ug/L |   |          | 10/11/18 01:06 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 92        |           | 74 - 132 |          | 10/11/18 01:06 | 1       |
| 4-Bromofluorobenzene         | 94        |           | 77 - 124 |          | 10/11/18 01:06 | 1       |
| Dibromofluoromethane (Surr)  | 108       |           | 72 - 131 |          | 10/11/18 01:06 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 80 - 120 |          | 10/11/18 01:06 | 1       |

**Client Sample ID: EB3 09282018**

**Lab Sample ID: 460-165769-12**

**Date Collected: 09/28/18 12:15**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                     | Result     | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 0.24       | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 00:41 | 1       |
| 1,1,2,2-Tetrachloroethane   | 0.37       | U         | 1.0 | 0.37 | ug/L |   |          | 10/10/18 00:41 | 1       |
| 1,1,2-Trichloroethane       | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 00:41 | 1       |
| 1,1-Dichloroethane          | 0.26       | U         | 1.0 | 0.26 | ug/L |   |          | 10/10/18 00:41 | 1       |
| 1,1-Dichloroethene          | 0.12       | U         | 1.0 | 0.12 | ug/L |   |          | 10/10/18 00:41 | 1       |
| 1,2-Dichloroethane          | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 00:41 | 1       |
| 1,2-Dichloropropane         | 0.35       | U         | 1.0 | 0.35 | ug/L |   |          | 10/10/18 00:41 | 1       |
| <b>2-Butanone (MEK)</b>     | <b>3.6</b> | <b>J</b>  | 5.0 | 1.9  | ug/L |   |          | 10/10/18 00:41 | 1       |
| 2-Hexanone                  | 2.9        | U         | 5.0 | 2.9  | ug/L |   |          | 10/10/18 00:41 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7        | U         | 5.0 | 2.7  | ug/L |   |          | 10/10/18 00:41 | 1       |
| <b>Acetone</b>              | <b>8.6</b> |           | 5.0 | 5.0  | ug/L |   |          | 10/10/18 00:41 | 1       |
| Benzene                     | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Bromoform                   | 0.54       | U         | 1.0 | 0.54 | ug/L |   |          | 10/10/18 00:41 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: EB3 09282018**

**Lab Sample ID: 460-165769-12**

**Date Collected: 09/28/18 12:15**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromomethane              | 1.0    | U         | 1.0 | 1.0  | ug/L |   |          | 10/10/18 00:41 | 1       |
| Carbon disulfide          | 0.16   | U         | 1.0 | 0.16 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Carbon tetrachloride      | 0.21   | U         | 1.0 | 0.21 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Chlorobenzene             | 0.38   | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Chlorobromomethane        | 0.41   | U         | 1.0 | 0.41 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Chloroethane              | 0.32   | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Chloroform                | 0.33   | U         | 1.0 | 0.33 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Chloromethane             | 0.14   | U         | 1.0 | 0.14 | ug/L |   |          | 10/10/18 00:41 | 1       |
| cis-1,2-Dichloroethene    | 0.22   | U         | 1.0 | 0.22 | ug/L |   |          | 10/10/18 00:41 | 1       |
| cis-1,3-Dichloropropene   | 0.46   | U         | 1.0 | 0.46 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Ethylbenzene              | 0.30   | U         | 1.0 | 0.30 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Methylene Chloride        | 0.32   | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Styrene                   | 0.42   | U         | 1.0 | 0.42 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Tetrachloroethene         | 0.25   | U         | 1.0 | 0.25 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Toluene                   | 0.38   | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 00:41 | 1       |
| trans-1,2-Dichloroethene  | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 00:41 | 1       |
| trans-1,3-Dichloropropene | 0.49   | U         | 1.0 | 0.49 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Trichloroethene           | 0.31   | U         | 1.0 | 0.31 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Vinyl chloride            | 0.17   | U         | 1.0 | 0.17 | ug/L |   |          | 10/10/18 00:41 | 1       |
| Xylenes, Total            | 0.65   | U         | 2.0 | 0.65 | ug/L |   |          | 10/10/18 00:41 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 74 - 132 |          | 10/10/18 00:41 | 1       |
| 4-Bromofluorobenzene         | 95        |           | 77 - 124 |          | 10/10/18 00:41 | 1       |
| Dibromofluoromethane (Surr)  | 110       |           | 72 - 131 |          | 10/10/18 00:41 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 10/10/18 00:41 | 1       |

**Client Sample ID: FB3 09282018**

**Lab Sample ID: 460-165769-13**

**Date Collected: 09/28/18 12:45**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                     | Result     | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 0.24       | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 01:08 | 1       |
| 1,1,2,2-Tetrachloroethane   | 0.37       | U         | 1.0 | 0.37 | ug/L |   |          | 10/10/18 01:08 | 1       |
| 1,1,2-Trichloroethane       | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 01:08 | 1       |
| 1,1-Dichloroethane          | 0.26       | U         | 1.0 | 0.26 | ug/L |   |          | 10/10/18 01:08 | 1       |
| 1,1-Dichloroethene          | 0.12       | U         | 1.0 | 0.12 | ug/L |   |          | 10/10/18 01:08 | 1       |
| 1,2-Dichloroethane          | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 01:08 | 1       |
| 1,2-Dichloropropane         | 0.35       | U         | 1.0 | 0.35 | ug/L |   |          | 10/10/18 01:08 | 1       |
| <b>2-Butanone (MEK)</b>     | <b>3.9</b> | <b>J</b>  | 5.0 | 1.9  | ug/L |   |          | 10/10/18 01:08 | 1       |
| 2-Hexanone                  | 2.9        | U         | 5.0 | 2.9  | ug/L |   |          | 10/10/18 01:08 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7        | U         | 5.0 | 2.7  | ug/L |   |          | 10/10/18 01:08 | 1       |
| <b>Acetone</b>              | <b>18</b>  |           | 5.0 | 5.0  | ug/L |   |          | 10/10/18 01:08 | 1       |
| Benzene                     | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Bromoform                   | 0.54       | U         | 1.0 | 0.54 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Bromomethane                | 1.0        | U         | 1.0 | 1.0  | ug/L |   |          | 10/10/18 01:08 | 1       |
| Carbon disulfide            | 0.16       | U         | 1.0 | 0.16 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Carbon tetrachloride        | 0.21       | U         | 1.0 | 0.21 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Chlorobenzene               | 0.38       | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 01:08 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FB3 09282018**

**Lab Sample ID: 460-165769-13**

**Date Collected: 09/28/18 12:45**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chlorobromomethane        | 0.41   | U         | 1.0 | 0.41 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Chloroethane              | 0.32   | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Chloroform                | 0.33   | U         | 1.0 | 0.33 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Chloromethane             | 0.14   | U         | 1.0 | 0.14 | ug/L |   |          | 10/10/18 01:08 | 1       |
| cis-1,2-Dichloroethene    | 0.22   | U         | 1.0 | 0.22 | ug/L |   |          | 10/10/18 01:08 | 1       |
| cis-1,3-Dichloropropene   | 0.46   | U         | 1.0 | 0.46 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Ethylbenzene              | 0.30   | U         | 1.0 | 0.30 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Methylene Chloride        | 0.32   | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Styrene                   | 0.42   | U         | 1.0 | 0.42 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Tetrachloroethene         | 0.25   | U         | 1.0 | 0.25 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Toluene                   | 0.38   | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 01:08 | 1       |
| trans-1,2-Dichloroethene  | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 01:08 | 1       |
| trans-1,3-Dichloropropene | 0.49   | U         | 1.0 | 0.49 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Trichloroethene           | 0.31   | U         | 1.0 | 0.31 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Vinyl chloride            | 0.17   | U         | 1.0 | 0.17 | ug/L |   |          | 10/10/18 01:08 | 1       |
| Xylenes, Total            | 0.65   | U         | 2.0 | 0.65 | ug/L |   |          | 10/10/18 01:08 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 74 - 132 |          | 10/10/18 01:08 | 1       |
| 4-Bromofluorobenzene         | 97        |           | 77 - 124 |          | 10/10/18 01:08 | 1       |
| Dibromofluoromethane (Surr)  | 110       |           | 72 - 131 |          | 10/10/18 01:08 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 80 - 120 |          | 10/10/18 01:08 | 1       |

**Client Sample ID: TB1 09262018**

**Lab Sample ID: 460-165769-14**

**Date Collected: 09/28/18 13:50**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

| Analyte                     | Result     | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 0.24       | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 01:35 | 1       |
| 1,1,2,2-Tetrachloroethane   | 0.37       | U         | 1.0 | 0.37 | ug/L |   |          | 10/10/18 01:35 | 1       |
| 1,1,2-Trichloroethane       | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 01:35 | 1       |
| 1,1-Dichloroethane          | 0.26       | U         | 1.0 | 0.26 | ug/L |   |          | 10/10/18 01:35 | 1       |
| 1,1-Dichloroethene          | 0.12       | U         | 1.0 | 0.12 | ug/L |   |          | 10/10/18 01:35 | 1       |
| 1,2-Dichloroethane          | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 01:35 | 1       |
| 1,2-Dichloropropane         | 0.35       | U         | 1.0 | 0.35 | ug/L |   |          | 10/10/18 01:35 | 1       |
| <b>2-Butanone (MEK)</b>     | <b>3.1</b> | <b>J</b>  | 5.0 | 1.9  | ug/L |   |          | 10/10/18 01:35 | 1       |
| 2-Hexanone                  | 2.9        | U         | 5.0 | 2.9  | ug/L |   |          | 10/10/18 01:35 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7        | U         | 5.0 | 2.7  | ug/L |   |          | 10/10/18 01:35 | 1       |
| <b>Acetone</b>              | <b>8.0</b> |           | 5.0 | 5.0  | ug/L |   |          | 10/10/18 01:35 | 1       |
| Benzene                     | 0.43       | U         | 1.0 | 0.43 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Bromoform                   | 0.54       | U         | 1.0 | 0.54 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Bromomethane                | 1.0        | U         | 1.0 | 1.0  | ug/L |   |          | 10/10/18 01:35 | 1       |
| Carbon disulfide            | 0.16       | U         | 1.0 | 0.16 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Carbon tetrachloride        | 0.21       | U         | 1.0 | 0.21 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Chlorobenzene               | 0.38       | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Chlorobromomethane          | 0.41       | U         | 1.0 | 0.41 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Chloroethane                | 0.32       | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Chloroform                  | 0.33       | U         | 1.0 | 0.33 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Chloromethane               | 0.14       | U         | 1.0 | 0.14 | ug/L |   |          | 10/10/18 01:35 | 1       |

TestAmerica Edison

# Client Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: TB1 09262018**

**Lab Sample ID: 460-165769-14**

**Date Collected: 09/28/18 13:50**

**Matrix: Water**

**Date Received: 09/28/18 20:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| cis-1,2-Dichloroethene    | 0.22   | U         | 1.0 | 0.22 | ug/L |   |          | 10/10/18 01:35 | 1       |
| cis-1,3-Dichloropropene   | 0.46   | U         | 1.0 | 0.46 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Ethylbenzene              | 0.30   | U         | 1.0 | 0.30 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Methylene Chloride        | 0.32   | U         | 1.0 | 0.32 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Styrene                   | 0.42   | U         | 1.0 | 0.42 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Tetrachloroethene         | 0.25   | U         | 1.0 | 0.25 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Toluene                   | 0.38   | U         | 1.0 | 0.38 | ug/L |   |          | 10/10/18 01:35 | 1       |
| trans-1,2-Dichloroethene  | 0.24   | U         | 1.0 | 0.24 | ug/L |   |          | 10/10/18 01:35 | 1       |
| trans-1,3-Dichloropropene | 0.49   | U         | 1.0 | 0.49 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Trichloroethene           | 0.31   | U         | 1.0 | 0.31 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Vinyl chloride            | 0.17   | U         | 1.0 | 0.17 | ug/L |   |          | 10/10/18 01:35 | 1       |
| Xylenes, Total            | 0.65   | U         | 2.0 | 0.65 | ug/L |   |          | 10/10/18 01:35 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94        |           | 74 - 132 |          | 10/10/18 01:35 | 1       |
| 4-Bromofluorobenzene         | 93        |           | 77 - 124 |          | 10/10/18 01:35 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 72 - 131 |          | 10/10/18 01:35 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 80 - 120 |          | 10/10/18 01:35 | 1       |

# Surrogate Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                  |                 |
|-------------------|------------------------|------------------------------------------------|-----------------|------------------|-----------------|
|                   |                        | DCA<br>(74-132)                                | BFB<br>(77-124) | DBFM<br>(72-131) | TOL<br>(80-120) |
| 460-165769-1      | FSMW-14A 09262018      | 96                                             | 95              | 109              | 91              |
| 460-165769-2      | FSMW-14B 09262018      | 96                                             | 95              | 110              | 92              |
| 460-165769-3      | FSMW-13A 09262018      | 99                                             | 97              | 111              | 93              |
| 460-165769-4      | EB1 092618             | 93                                             | 98              | 105              | 94              |
| 460-165769-5      | FB1 09262018           | 94                                             | 97              | 107              | 92              |
| 460-165769-6      | FSMW-8A 09272018       | 93                                             | 95              | 109              | 92              |
| 460-165769-7      | FSMW-1A 09272018       | 96                                             | 93              | 110              | 92              |
| 460-165769-8      | EB2 09272018           | 92                                             | 89              | 106              | 88              |
| 460-165769-9      | FB2 09272018           | 95                                             | 96              | 109              | 93              |
| 460-165769-10     | FSMW-4A 09282018       | 98                                             | 95              | 111              | 91              |
| 460-165769-11     | FSMW-2B 09282018       | 92                                             | 94              | 108              | 93              |
| 460-165769-12     | EB3 09282018           | 94                                             | 95              | 110              | 92              |
| 460-165769-13     | FB3 09282018           | 94                                             | 97              | 110              | 95              |
| 460-165769-14     | TB1 09262018           | 94                                             | 93              | 109              | 92              |
| LCS 460-558837/3  | Lab Control Sample     | 86                                             | 108             | 100              | 96              |
| LCS 460-558952/4  | Lab Control Sample     | 87                                             | 107             | 101              | 96              |
| LCS 460-559112/4  | Lab Control Sample     | 89                                             | 106             | 101              | 93              |
| LCS 460-559235/4  | Lab Control Sample     | 88                                             | 111             | 103              | 93              |
| LCSD 460-558837/4 | Lab Control Sample Dup | 89                                             | 108             | 99               | 94              |
| LCSD 460-558952/5 | Lab Control Sample Dup | 84                                             | 107             | 100              | 94              |
| LCSD 460-559112/5 | Lab Control Sample Dup | 86                                             | 109             | 99               | 95              |
| LCSD 460-559235/5 | Lab Control Sample Dup | 84                                             | 110             | 100              | 96              |
| MB 460-558837/7   | Method Blank           | 91                                             | 96              | 106              | 91              |
| MB 460-558952/10  | Method Blank           | 94                                             | 101             | 107              | 94              |
| MB 460-559112/8   | Method Blank           | 89                                             | 96              | 104              | 93              |
| MB 460-559235/8   | Method Blank           | 92                                             | 100             | 108              | 92              |

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

# Isotope Dilution Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID        | Client Sample ID       | DXE<br>(10-150) |
|----------------------|------------------------|-----------------|
| 460-165755-A-1-A MS  | Matrix Spike           | 35              |
| 460-165755-A-1-B MSD | Matrix Spike Duplicate | 34              |
| 460-165769-1         | FSMW-14A 09262018      | 40              |
| 460-165769-4         | EB1 092618             | 45              |
| 460-165769-5         | FB1 09262018           | 42              |
| 460-165769-6         | FSMW-8A 09272018       | 40              |
| 460-165769-7         | FSMW-1A 09272018       | 40              |
| 460-165769-8         | EB2 09272018           | 47              |
| 460-165769-9         | FB2 09272018           | 39              |
| 460-165951-E-6-A MS  | Matrix Spike           | 48              |
| 460-165951-E-6-B MSD | Matrix Spike Duplicate | 50              |
| MB 460-556636/1-A    | Method Blank           | 30              |
| MB 460-557439/1-A    | Method Blank           | 47              |

#### Surrogate Legend

DXE = 1,4-Dioxane-d8

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID   | DXE<br>(10-200) |
|--------------------|--------------------|-----------------|
| LCS 460-556636/2-A | Lab Control Sample | 35              |
| LCS 460-557439/2-A | Lab Control Sample | 55              |

#### Surrogate Legend

DXE = 1,4-Dioxane-d8

## Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID        | Client Sample ID       | PFHxS<br>(25-150) | PFHpA<br>(25-150) | PFOA<br>(25-150) | PFOS<br>(25-150) | PFNA<br>(25-150) | PFBA<br>(25-150) | PFHxA<br>(25-150) | PFDA<br>(25-150) |
|----------------------|------------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|-------------------|------------------|
| 460-165718-A-3-B MS  | Matrix Spike           | 78                | 74                | 94               | 70               | 109              | 38               | 45                | 138              |
| 460-165718-A-3-C MSD | Matrix Spike Duplicate | 77                | 69                | 86               | 75               | 105              | 36               | 41                | 126              |
| 460-165769-1         | FSMW-14A 09262018      | 73                | 78                | 88               | 73               | 88               | 43               | 54                | 84               |
| 460-165769-4         | EB1 092618             | 79                | 96                | 100              | 72               | 104              | 82               | 87                | 98               |
| 460-165769-5         | FB1 09262018           | 70                | 94                | 99               | 71               | 97               | 91               | 79                | 101              |
| 460-165769-6         | FSMW-8A 09272018       | 88                | 76                | 100              | 92               | 103              | 22 *             | 45                | 107              |
| 460-165769-7         | FSMW-1A 09272018       | 89                | 75                | 88               | 85               | 95               | 29               | 53                | 96               |
| 460-165769-8         | EB2 09272018           | 89                | 89                | 95               | 84               | 92               | 84               | 88                | 92               |
| 460-165769-9         | FB2 09272018           | 76                | 90                | 94               | 77               | 88               | 75               | 83                | 83               |
| LCS 200-134904/2-A   | Lab Control Sample     | 78                | 85                | 92               | 74               | 94               | 75               | 84                | 97               |
| MB 200-134904/1-A    | Method Blank           | 82                | 86                | 98               | 78               | 96               | 80               | 88                | 95               |

### Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID | PFUnA<br>(25-150) | PFDoA<br>(25-150) | PFOSA<br>(25-150) | PFPeA<br>(25-150) | PFTDA<br>(25-150) | -NMeFOS<br>(25-150) | -NEtFOS/<br>(25-150) | M262FTS<br>(25-150) |
|---------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|----------------------|---------------------|
| 460-165718-A-3-B MS | Matrix Spike     | 112               | 122               | 57                | 40                | 118               | 88                  | 100                  | 171 *               |

TestAmerica Edison



# Isotope Dilution Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID        | Client Sample ID       | Percent Isotope Dilution Recovery (Acceptance Limits) |                   |                   |                   |                   |                     |                      |                     |
|----------------------|------------------------|-------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|----------------------|---------------------|
|                      |                        | PfUnA<br>(25-150)                                     | PfDoA<br>(25-150) | PfOSA<br>(25-150) | PfPeA<br>(25-150) | PfTDA<br>(25-150) | -NMeFOS<br>(25-150) | -NEtFOS/<br>(25-150) | M262FTS<br>(25-150) |
| 460-165718-A-3-C MSD | Matrix Spike Duplicate | 110                                                   | 114               | 42                | 44                | 120               | 90                  | 95                   | 187 *               |
| 460-165769-1         | FSMW-14A 09262018      | 88                                                    | 78                | 39                | 53                | 60                | 67                  | 70                   | 169 *               |
| 460-165769-4         | EB1 092618             | 103                                                   | 98                | 54                | 80                | 64                | 74                  | 93                   | 105                 |
| 460-165769-5         | FB1 09262018           | 97                                                    | 89                | 52                | 90                | 86                | 70                  | 89                   | 102                 |
| 460-165769-6         | FSMW-8A 09272018       | 111                                                   | 99                | 67                | 39                | 104               | 83                  | 91                   | 217 *               |
| 460-165769-7         | FSMW-1A 09272018       | 92                                                    | 89                | 56                | 41                | 92                | 74                  | 80                   | 201 *               |
| 460-165769-8         | EB2 09272018           | 94                                                    | 88                | 52                | 83                | 86                | 77                  | 84                   | 87                  |
| 460-165769-9         | FB2 09272018           | 92                                                    | 84                | 45                | 77                | 85                | 73                  | 80                   | 94                  |
| LCS 200-134904/2-A   | Lab Control Sample     | 97                                                    | 89                | 50                | 83                | 89                | 79                  | 87                   | 97                  |
| MB 200-134904/1-A    | Method Blank           | 103                                                   | 93                | 45                | 87                | 61                | 70                  | 87                   | 111                 |

| Lab Sample ID        | Client Sample ID       | Percent Isotope Dilution Recovery (Acceptance Limits) |                      |
|----------------------|------------------------|-------------------------------------------------------|----------------------|
|                      |                        | M282FTS<br>(25-150)                                   | 3C3-PFB:<br>(25-150) |
| 460-165718-A-3-B MS  | Matrix Spike           | 325 *                                                 | 54                   |
| 460-165718-A-3-C MSD | Matrix Spike Duplicate | 341 *                                                 | 58                   |
| 460-165769-1         | FSMW-14A 09262018      | 118                                                   | 65                   |
| 460-165769-4         | EB1 092618             | 105                                                   | 80                   |
| 460-165769-5         | FB1 09262018           | 102                                                   | 74                   |
| 460-165769-6         | FSMW-8A 09272018       | 209 *                                                 | 70                   |
| 460-165769-7         | FSMW-1A 09272018       | 166 *                                                 | 66                   |
| 460-165769-8         | EB2 09272018           | 89                                                    | 93                   |
| 460-165769-9         | FB2 09272018           | 93                                                    | 85                   |
| LCS 200-134904/2-A   | Lab Control Sample     | 105                                                   | 83                   |
| MB 200-134904/1-A    | Method Blank           | 110                                                   | 83                   |

### Surrogate Legend

PFHxS = 18O2 PFHxS  
PFHpA = 13C4 PFHpA  
PFOA = 13C4 PFOA  
PFOS = 13C4 PFOS  
PFNA = 13C5 PFNA  
PFBA = 13C4 PFBA  
PFHxA = 13C2 PFHxA  
PFDA = 13C2 PFDA  
PFUnA = 13C2 PFUnA  
PFDoA = 13C2 PFDoA  
PFOSA = 13C8 FOSA  
PFPeA = 13C5 PFPeA  
PFTDA = 13C2 PFTeDA  
d3-NMeFOSAA = d3-NMeFOSAA  
d5-NEtFOSAA = d5-NEtFOSAA  
M262FTS = M2-6:2 FTS  
M282FTS = M2-8:2 FTS  
13C3-PFBS = 13C3 PFBS

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-558837/7

Matrix: Water

Analysis Batch: 558837

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB<br>Result | MB<br>Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 0.24         | U               | 1.0 | 0.24 | ug/L |   |          | 10/09/18 22:00 | 1       |
| 1,1,2,2-Tetrachloroethane   | 0.37         | U               | 1.0 | 0.37 | ug/L |   |          | 10/09/18 22:00 | 1       |
| 1,1,2-Trichloroethane       | 0.43         | U               | 1.0 | 0.43 | ug/L |   |          | 10/09/18 22:00 | 1       |
| 1,1-Dichloroethane          | 0.26         | U               | 1.0 | 0.26 | ug/L |   |          | 10/09/18 22:00 | 1       |
| 1,1-Dichloroethene          | 0.12         | U               | 1.0 | 0.12 | ug/L |   |          | 10/09/18 22:00 | 1       |
| 1,2-Dichloroethane          | 0.43         | U               | 1.0 | 0.43 | ug/L |   |          | 10/09/18 22:00 | 1       |
| 1,2-Dichloropropane         | 0.35         | U               | 1.0 | 0.35 | ug/L |   |          | 10/09/18 22:00 | 1       |
| 2-Butanone (MEK)            | 1.9          | U               | 5.0 | 1.9  | ug/L |   |          | 10/09/18 22:00 | 1       |
| 2-Hexanone                  | 2.9          | U               | 5.0 | 2.9  | ug/L |   |          | 10/09/18 22:00 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7          | U               | 5.0 | 2.7  | ug/L |   |          | 10/09/18 22:00 | 1       |
| Acetone                     | 5.0          | U               | 5.0 | 5.0  | ug/L |   |          | 10/09/18 22:00 | 1       |
| Benzene                     | 0.43         | U               | 1.0 | 0.43 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Bromoform                   | 0.54         | U               | 1.0 | 0.54 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Bromomethane                | 1.0          | U               | 1.0 | 1.0  | ug/L |   |          | 10/09/18 22:00 | 1       |
| Carbon disulfide            | 0.16         | U               | 1.0 | 0.16 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Carbon tetrachloride        | 0.21         | U               | 1.0 | 0.21 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Chlorobenzene               | 0.38         | U               | 1.0 | 0.38 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Chlorobromomethane          | 0.41         | U               | 1.0 | 0.41 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Chloroethane                | 0.32         | U               | 1.0 | 0.32 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Chloroform                  | 0.33         | U               | 1.0 | 0.33 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Chloromethane               | 0.14         | U               | 1.0 | 0.14 | ug/L |   |          | 10/09/18 22:00 | 1       |
| cis-1,2-Dichloroethene      | 0.22         | U               | 1.0 | 0.22 | ug/L |   |          | 10/09/18 22:00 | 1       |
| cis-1,3-Dichloropropene     | 0.46         | U               | 1.0 | 0.46 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Ethylbenzene                | 0.30         | U               | 1.0 | 0.30 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Methylene Chloride          | 0.32         | U               | 1.0 | 0.32 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Styrene                     | 0.42         | U               | 1.0 | 0.42 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Tetrachloroethene           | 0.25         | U               | 1.0 | 0.25 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Toluene                     | 0.38         | U               | 1.0 | 0.38 | ug/L |   |          | 10/09/18 22:00 | 1       |
| trans-1,2-Dichloroethene    | 0.24         | U               | 1.0 | 0.24 | ug/L |   |          | 10/09/18 22:00 | 1       |
| trans-1,3-Dichloropropene   | 0.49         | U               | 1.0 | 0.49 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Trichloroethene             | 0.31         | U               | 1.0 | 0.31 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Vinyl chloride              | 0.17         | U               | 1.0 | 0.17 | ug/L |   |          | 10/09/18 22:00 | 1       |
| Xylenes, Total              | 0.65         | U               | 2.0 | 0.65 | ug/L |   |          | 10/09/18 22:00 | 1       |

| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 91              |                 | 74 - 132 |          | 10/09/18 22:00 | 1       |
| 4-Bromofluorobenzene         | 96              |                 | 77 - 124 |          | 10/09/18 22:00 | 1       |
| Dibromofluoromethane (Surr)  | 106             |                 | 72 - 131 |          | 10/09/18 22:00 | 1       |
| Toluene-d8 (Surr)            | 91              |                 | 80 - 120 |          | 10/09/18 22:00 | 1       |

Lab Sample ID: LCS 460-558837/3

Matrix: Water

Analysis Batch: 558837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                   | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| 1,1,1-Trichloroethane     | 20.0           | 20.4          |                  | ug/L |   | 102  | 75 - 125        |
| 1,1,2,2-Tetrachloroethane | 20.0           | 17.3          |                  | ug/L |   | 86   | 74 - 120        |
| 1,1,2-Trichloroethane     | 20.0           | 19.0          |                  | ug/L |   | 95   | 78 - 120        |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-558837/3

Matrix: Water

Analysis Batch: 558837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1-Dichloroethane          | 20.0        | 18.2       |               | ug/L |   | 91   | 77 - 123     |
| 1,1-Dichloroethene          | 20.0        | 19.6       |               | ug/L |   | 98   | 74 - 123     |
| 1,2-Dichloroethane          | 20.0        | 18.6       |               | ug/L |   | 93   | 76 - 121     |
| 1,2-Dichloropropane         | 20.0        | 18.5       |               | ug/L |   | 92   | 77 - 123     |
| 2-Butanone (MEK)            | 100         | 109        |               | ug/L |   | 109  | 64 - 120     |
| 2-Hexanone                  | 100         | 106        |               | ug/L |   | 106  | 71 - 125     |
| 4-Methyl-2-pentanone (MIBK) | 100         | 101        |               | ug/L |   | 101  | 78 - 124     |
| Acetone                     | 100         | 107        |               | ug/L |   | 107  | 39 - 150     |
| Benzene                     | 20.0        | 20.1       |               | ug/L |   | 101  | 77 - 121     |
| Bromoform                   | 20.0        | 22.5       |               | ug/L |   | 112  | 53 - 120     |
| Bromomethane                | 20.0        | 12.0       |               | ug/L |   | 60   | 10 - 150     |
| Carbon disulfide            | 20.0        | 18.7       |               | ug/L |   | 94   | 69 - 133     |
| Carbon tetrachloride        | 20.0        | 21.1       |               | ug/L |   | 106  | 70 - 132     |
| Chlorobenzene               | 20.0        | 21.0       |               | ug/L |   | 105  | 80 - 120     |
| Chlorobromomethane          | 20.0        | 21.7       |               | ug/L |   | 108  | 77 - 127     |
| Chlorodibromomethane        | 20.0        | 21.6       |               | ug/L |   | 108  | 73 - 120     |
| Chloroethane                | 20.0        | 20.1       |               | ug/L |   | 100  | 52 - 150     |
| Chloroform                  | 20.0        | 20.6       |               | ug/L |   | 103  | 80 - 120     |
| Chloromethane               | 20.0        | 17.0       |               | ug/L |   | 85   | 56 - 131     |
| cis-1,2-Dichloroethene      | 20.0        | 20.0       |               | ug/L |   | 100  | 80 - 120     |
| cis-1,3-Dichloropropene     | 20.0        | 18.7       |               | ug/L |   | 93   | 77 - 120     |
| Dichlorobromomethane        | 20.0        | 19.6       |               | ug/L |   | 98   | 76 - 120     |
| Ethylbenzene                | 20.0        | 20.0       |               | ug/L |   | 100  | 80 - 120     |
| Methylene Chloride          | 20.0        | 20.0       |               | ug/L |   | 100  | 77 - 123     |
| Styrene                     | 20.0        | 20.5       |               | ug/L |   | 102  | 80 - 120     |
| Tetrachloroethene           | 20.0        | 23.4       |               | ug/L |   | 117  | 78 - 122     |
| Toluene                     | 20.0        | 20.1       |               | ug/L |   | 100  | 80 - 120     |
| trans-1,2-Dichloroethene    | 20.0        | 20.5       |               | ug/L |   | 103  | 79 - 120     |
| trans-1,3-Dichloropropene   | 20.0        | 17.3       |               | ug/L |   | 87   | 76 - 120     |
| Trichloroethene             | 20.0        | 19.7       |               | ug/L |   | 98   | 77 - 120     |
| Vinyl chloride              | 20.0        | 18.1       |               | ug/L |   | 90   | 62 - 138     |
| Xylenes, Total              | 40.0        | 37.3       |               | ug/L |   | 93   | 80 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 86            |               | 74 - 132 |
| 4-Bromofluorobenzene         | 108           |               | 77 - 124 |
| Dibromofluoromethane (Surr)  | 100           |               | 72 - 131 |
| Toluene-d8 (Surr)            | 96            |               | 80 - 120 |

Lab Sample ID: LCSD 460-558837/4

Matrix: Water

Analysis Batch: 558837

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                   | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| 1,1,1-Trichloroethane     | 20.0        | 19.2        |                | ug/L |   | 96   | 75 - 125     | 6   | 30        |
| 1,1,2,2-Tetrachloroethane | 20.0        | 16.4        |                | ug/L |   | 82   | 74 - 120     | 5   | 30        |
| 1,1,2-Trichloroethane     | 20.0        | 18.5        |                | ug/L |   | 92   | 78 - 120     | 3   | 30        |
| 1,1-Dichloroethane        | 20.0        | 17.2        |                | ug/L |   | 86   | 77 - 123     | 5   | 30        |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-558837/4

Matrix: Water

Analysis Batch: 558837

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| 1,1-Dichloroethene          | 20.0        | 18.2        |                | ug/L |   | 91   | 74 - 123     | 7   | 30        |
| 1,2-Dichloroethane          | 20.0        | 18.3        |                | ug/L |   | 92   | 76 - 121     | 2   | 30        |
| 1,2-Dichloropropane         | 20.0        | 17.6        |                | ug/L |   | 88   | 77 - 123     | 5   | 30        |
| 2-Butanone (MEK)            | 100         | 113         |                | ug/L |   | 113  | 64 - 120     | 4   | 30        |
| 2-Hexanone                  | 100         | 108         |                | ug/L |   | 108  | 71 - 125     | 2   | 30        |
| 4-Methyl-2-pentanone (MIBK) | 100         | 103         |                | ug/L |   | 103  | 78 - 124     | 2   | 30        |
| Acetone                     | 100         | 109         |                | ug/L |   | 109  | 39 - 150     | 2   | 30        |
| Benzene                     | 20.0        | 19.4        |                | ug/L |   | 97   | 77 - 121     | 4   | 30        |
| Bromoform                   | 20.0        | 21.5        |                | ug/L |   | 107  | 53 - 120     | 5   | 30        |
| Bromomethane                | 20.0        | 11.4        |                | ug/L |   | 57   | 10 - 150     | 5   | 30        |
| Carbon disulfide            | 20.0        | 17.5        |                | ug/L |   | 87   | 69 - 133     | 7   | 30        |
| Carbon tetrachloride        | 20.0        | 19.7        |                | ug/L |   | 98   | 70 - 132     | 7   | 30        |
| Chlorobenzene               | 20.0        | 19.9        |                | ug/L |   | 99   | 80 - 120     | 6   | 30        |
| Chlorobromomethane          | 20.0        | 21.7        |                | ug/L |   | 108  | 77 - 127     | 0   | 30        |
| Chlorodibromomethane        | 20.0        | 20.8        |                | ug/L |   | 104  | 73 - 120     | 4   | 30        |
| Chloroethane                | 20.0        | 18.7        |                | ug/L |   | 93   | 52 - 150     | 7   | 30        |
| Chloroform                  | 20.0        | 19.6        |                | ug/L |   | 98   | 80 - 120     | 5   | 30        |
| Chloromethane               | 20.0        | 16.1        |                | ug/L |   | 80   | 56 - 131     | 6   | 30        |
| cis-1,2-Dichloroethene      | 20.0        | 20.0        |                | ug/L |   | 100  | 80 - 120     | 0   | 30        |
| cis-1,3-Dichloropropene     | 20.0        | 18.4        |                | ug/L |   | 92   | 77 - 120     | 1   | 30        |
| Dichlorobromomethane        | 20.0        | 19.6        |                | ug/L |   | 98   | 76 - 120     | 0   | 30        |
| Ethylbenzene                | 20.0        | 19.5        |                | ug/L |   | 98   | 80 - 120     | 2   | 30        |
| Methylene Chloride          | 20.0        | 19.9        |                | ug/L |   | 99   | 77 - 123     | 1   | 30        |
| Styrene                     | 20.0        | 20.0        |                | ug/L |   | 100  | 80 - 120     | 2   | 30        |
| Tetrachloroethene           | 20.0        | 21.8        |                | ug/L |   | 109  | 78 - 122     | 7   | 30        |
| Toluene                     | 20.0        | 18.7        |                | ug/L |   | 94   | 80 - 120     | 7   | 30        |
| trans-1,2-Dichloroethene    | 20.0        | 19.4        |                | ug/L |   | 97   | 79 - 120     | 5   | 30        |
| trans-1,3-Dichloropropene   | 20.0        | 16.6        |                | ug/L |   | 83   | 76 - 120     | 4   | 30        |
| Trichloroethene             | 20.0        | 19.0        |                | ug/L |   | 95   | 77 - 120     | 4   | 30        |
| Vinyl chloride              | 20.0        | 17.0        |                | ug/L |   | 85   | 62 - 138     | 6   | 30        |
| Xylenes, Total              | 40.0        | 37.4        |                | ug/L |   | 93   | 80 - 120     | 0   | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 89             |                | 74 - 132    |
| 4-Bromofluorobenzene         | 108            |                | 77 - 124    |
| Dibromofluoromethane (Surr)  | 99             |                | 72 - 131    |
| Toluene-d8 (Surr)            | 94             |                | 80 - 120    |

Lab Sample ID: MB 460-558952/10

Matrix: Water

Analysis Batch: 558952

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                   | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane     | 0.24      | U            | 1.0 | 0.24 | ug/L |   |          | 10/10/18 11:25 | 1       |
| 1,1,2,2-Tetrachloroethane | 0.37      | U            | 1.0 | 0.37 | ug/L |   |          | 10/10/18 11:25 | 1       |
| 1,1,2-Trichloroethane     | 0.43      | U            | 1.0 | 0.43 | ug/L |   |          | 10/10/18 11:25 | 1       |
| 1,1-Dichloroethane        | 0.26      | U            | 1.0 | 0.26 | ug/L |   |          | 10/10/18 11:25 | 1       |
| 1,1-Dichloroethene        | 0.12      | U            | 1.0 | 0.12 | ug/L |   |          | 10/10/18 11:25 | 1       |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-558952/10

Matrix: Water

Analysis Batch: 558952

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichloroethane          | 0.43      | U            | 1.0 | 0.43 | ug/L |   |          | 10/10/18 11:25 | 1       |
| 1,2-Dichloropropane         | 0.35      | U            | 1.0 | 0.35 | ug/L |   |          | 10/10/18 11:25 | 1       |
| 2-Butanone (MEK)            | 1.9       | U            | 5.0 | 1.9  | ug/L |   |          | 10/10/18 11:25 | 1       |
| 2-Hexanone                  | 2.9       | U            | 5.0 | 2.9  | ug/L |   |          | 10/10/18 11:25 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7       | U            | 5.0 | 2.7  | ug/L |   |          | 10/10/18 11:25 | 1       |
| Acetone                     | 5.0       | U            | 5.0 | 5.0  | ug/L |   |          | 10/10/18 11:25 | 1       |
| Benzene                     | 0.43      | U            | 1.0 | 0.43 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Bromoform                   | 0.54      | U            | 1.0 | 0.54 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 1.0  | ug/L |   |          | 10/10/18 11:25 | 1       |
| Carbon disulfide            | 0.16      | U            | 1.0 | 0.16 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Carbon tetrachloride        | 0.21      | U            | 1.0 | 0.21 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Chlorobenzene               | 0.38      | U            | 1.0 | 0.38 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Chlorobromomethane          | 0.41      | U            | 1.0 | 0.41 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Chloroethane                | 0.32      | U            | 1.0 | 0.32 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Chloroform                  | 0.33      | U            | 1.0 | 0.33 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Chloromethane               | 0.14      | U            | 1.0 | 0.14 | ug/L |   |          | 10/10/18 11:25 | 1       |
| cis-1,2-Dichloroethene      | 0.22      | U            | 1.0 | 0.22 | ug/L |   |          | 10/10/18 11:25 | 1       |
| cis-1,3-Dichloropropene     | 0.46      | U            | 1.0 | 0.46 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Ethylbenzene                | 0.30      | U            | 1.0 | 0.30 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Methylene Chloride          | 0.32      | U            | 1.0 | 0.32 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Styrene                     | 0.42      | U            | 1.0 | 0.42 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Tetrachloroethene           | 0.324     | J            | 1.0 | 0.25 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Toluene                     | 0.38      | U            | 1.0 | 0.38 | ug/L |   |          | 10/10/18 11:25 | 1       |
| trans-1,2-Dichloroethene    | 0.24      | U            | 1.0 | 0.24 | ug/L |   |          | 10/10/18 11:25 | 1       |
| trans-1,3-Dichloropropene   | 0.49      | U            | 1.0 | 0.49 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Trichloroethene             | 0.31      | U            | 1.0 | 0.31 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Vinyl chloride              | 0.17      | U            | 1.0 | 0.17 | ug/L |   |          | 10/10/18 11:25 | 1       |
| Xylenes, Total              | 0.65      | U            | 2.0 | 0.65 | ug/L |   |          | 10/10/18 11:25 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 94           |              | 74 - 132 |          | 10/10/18 11:25 | 1       |
| 4-Bromofluorobenzene         | 101          |              | 77 - 124 |          | 10/10/18 11:25 | 1       |
| Dibromofluoromethane (Surr)  | 107          |              | 72 - 131 |          | 10/10/18 11:25 | 1       |
| Toluene-d8 (Surr)            | 94           |              | 80 - 120 |          | 10/10/18 11:25 | 1       |

Lab Sample ID: LCS 460-558952/4

Matrix: Water

Analysis Batch: 558952

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,1-Trichloroethane     | 20.0        | 20.9       |               | ug/L |   | 104  | 75 - 125     |
| 1,1,2,2-Tetrachloroethane | 20.0        | 17.5       |               | ug/L |   | 88   | 74 - 120     |
| 1,1,2-Trichloroethane     | 20.0        | 19.4       |               | ug/L |   | 97   | 78 - 120     |
| 1,1-Dichloroethane        | 20.0        | 18.4       |               | ug/L |   | 92   | 77 - 123     |
| 1,1-Dichloroethene        | 20.0        | 19.9       |               | ug/L |   | 100  | 74 - 123     |
| 1,2-Dichloroethane        | 20.0        | 18.7       |               | ug/L |   | 93   | 76 - 121     |
| 1,2-Dichloropropane       | 20.0        | 18.9       |               | ug/L |   | 94   | 77 - 123     |
| 2-Butanone (MEK)          | 100         | 124        | *             | ug/L |   | 124  | 64 - 120     |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-558952/4

Matrix: Water

Analysis Batch: 558952

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 2-Hexanone                  | 100         | 113        |               | ug/L |   | 113  | 71 - 125     |
| 4-Methyl-2-pentanone (MIBK) | 100         | 109        |               | ug/L |   | 109  | 78 - 124     |
| Acetone                     | 100         | 110        |               | ug/L |   | 110  | 39 - 150     |
| Benzene                     | 20.0        | 20.3       |               | ug/L |   | 101  | 77 - 121     |
| Bromoform                   | 20.0        | 23.4       |               | ug/L |   | 117  | 53 - 120     |
| Bromomethane                | 20.0        | 16.2       |               | ug/L |   | 81   | 10 - 150     |
| Carbon disulfide            | 20.0        | 19.0       |               | ug/L |   | 95   | 69 - 133     |
| Carbon tetrachloride        | 20.0        | 21.1       |               | ug/L |   | 106  | 70 - 132     |
| Chlorobenzene               | 20.0        | 21.2       |               | ug/L |   | 106  | 80 - 120     |
| Chlorobromomethane          | 20.0        | 23.0       |               | ug/L |   | 115  | 77 - 127     |
| Chlorodibromomethane        | 20.0        | 22.1       |               | ug/L |   | 111  | 73 - 120     |
| Chloroethane                | 20.0        | 20.5       |               | ug/L |   | 103  | 52 - 150     |
| Chloroform                  | 20.0        | 20.7       |               | ug/L |   | 103  | 80 - 120     |
| Chloromethane               | 20.0        | 16.3       |               | ug/L |   | 82   | 56 - 131     |
| cis-1,2-Dichloroethene      | 20.0        | 20.1       |               | ug/L |   | 101  | 80 - 120     |
| cis-1,3-Dichloropropene     | 20.0        | 19.4       |               | ug/L |   | 97   | 77 - 120     |
| Dichlorobromomethane        | 20.0        | 20.4       |               | ug/L |   | 102  | 76 - 120     |
| Ethylbenzene                | 20.0        | 20.2       |               | ug/L |   | 101  | 80 - 120     |
| Methylene Chloride          | 20.0        | 20.1       |               | ug/L |   | 101  | 77 - 123     |
| Styrene                     | 20.0        | 20.9       |               | ug/L |   | 104  | 80 - 120     |
| Tetrachloroethene           | 20.0        | 24.0       |               | ug/L |   | 120  | 78 - 122     |
| Toluene                     | 20.0        | 19.5       |               | ug/L |   | 98   | 80 - 120     |
| trans-1,2-Dichloroethene    | 20.0        | 20.9       |               | ug/L |   | 105  | 79 - 120     |
| trans-1,3-Dichloropropene   | 20.0        | 17.6       |               | ug/L |   | 88   | 76 - 120     |
| Trichloroethene             | 20.0        | 20.6       |               | ug/L |   | 103  | 77 - 120     |
| Vinyl chloride              | 20.0        | 18.1       |               | ug/L |   | 91   | 62 - 138     |
| Xylenes, Total              | 40.0        | 37.9       |               | ug/L |   | 95   | 80 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 87            |               | 74 - 132 |
| 4-Bromofluorobenzene         | 107           |               | 77 - 124 |
| Dibromofluoromethane (Surr)  | 101           |               | 72 - 131 |
| Toluene-d8 (Surr)            | 96            |               | 80 - 120 |

Lab Sample ID: LCSD 460-558952/5

Matrix: Water

Analysis Batch: 558952

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                   | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| 1,1,1-Trichloroethane     | 20.0        | 20.2        |                | ug/L |   | 101  | 75 - 125     | 3   | 30        |
| 1,1,1,2-Tetrachloroethane | 20.0        | 17.1        |                | ug/L |   | 85   | 74 - 120     | 3   | 30        |
| 1,1,2-Trichloroethane     | 20.0        | 18.5        |                | ug/L |   | 92   | 78 - 120     | 5   | 30        |
| 1,1-Dichloroethane        | 20.0        | 17.8        |                | ug/L |   | 89   | 77 - 123     | 3   | 30        |
| 1,1-Dichloroethene        | 20.0        | 20.0        |                | ug/L |   | 100  | 74 - 123     | 1   | 30        |
| 1,2-Dichloroethane        | 20.0        | 18.4        |                | ug/L |   | 92   | 76 - 121     | 2   | 30        |
| 1,2-Dichloropropane       | 20.0        | 18.2        |                | ug/L |   | 91   | 77 - 123     | 4   | 30        |
| 2-Butanone (MEK)          | 100         | 121         | *              | ug/L |   | 121  | 64 - 120     | 2   | 30        |
| 2-Hexanone                | 100         | 113         |                | ug/L |   | 113  | 71 - 125     | 0   | 30        |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-558952/5

Matrix: Water

Analysis Batch: 558952

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| 4-Methyl-2-pentanone (MIBK) | 100         | 105         |                | ug/L |   | 105  | 78 - 124     | 3   | 30        |
| Acetone                     | 100         | 109         |                | ug/L |   | 109  | 39 - 150     | 1   | 30        |
| Benzene                     | 20.0        | 19.0        |                | ug/L |   | 95   | 77 - 121     | 6   | 30        |
| Bromoform                   | 20.0        | 22.5        |                | ug/L |   | 113  | 53 - 120     | 4   | 30        |
| Bromomethane                | 20.0        | 15.4        |                | ug/L |   | 77   | 10 - 150     | 5   | 30        |
| Carbon disulfide            | 20.0        | 18.4        |                | ug/L |   | 92   | 69 - 133     | 3   | 30        |
| Carbon tetrachloride        | 20.0        | 21.1        |                | ug/L |   | 106  | 70 - 132     | 0   | 30        |
| Chlorobenzene               | 20.0        | 20.4        |                | ug/L |   | 102  | 80 - 120     | 4   | 30        |
| Chlorobromomethane          | 20.0        | 22.0        |                | ug/L |   | 110  | 77 - 127     | 5   | 30        |
| Chlorodibromomethane        | 20.0        | 21.2        |                | ug/L |   | 106  | 73 - 120     | 4   | 30        |
| Chloroethane                | 20.0        | 20.2        |                | ug/L |   | 101  | 52 - 150     | 1   | 30        |
| Chloroform                  | 20.0        | 19.4        |                | ug/L |   | 97   | 80 - 120     | 6   | 30        |
| Chloromethane               | 20.0        | 16.6        |                | ug/L |   | 83   | 56 - 131     | 1   | 30        |
| cis-1,2-Dichloroethene      | 20.0        | 19.9        |                | ug/L |   | 99   | 80 - 120     | 1   | 30        |
| cis-1,3-Dichloropropene     | 20.0        | 18.3        |                | ug/L |   | 91   | 77 - 120     | 6   | 30        |
| Dichlorobromomethane        | 20.0        | 19.4        |                | ug/L |   | 97   | 76 - 120     | 5   | 30        |
| Ethylbenzene                | 20.0        | 19.6        |                | ug/L |   | 98   | 80 - 120     | 3   | 30        |
| Methylene Chloride          | 20.0        | 18.8        |                | ug/L |   | 94   | 77 - 123     | 7   | 30        |
| Styrene                     | 20.0        | 19.6        |                | ug/L |   | 98   | 80 - 120     | 6   | 30        |
| Tetrachloroethene           | 20.0        | 23.5        |                | ug/L |   | 118  | 78 - 122     | 2   | 30        |
| Toluene                     | 20.0        | 19.1        |                | ug/L |   | 96   | 80 - 120     | 2   | 30        |
| trans-1,2-Dichloroethene    | 20.0        | 20.5        |                | ug/L |   | 103  | 79 - 120     | 2   | 30        |
| trans-1,3-Dichloropropene   | 20.0        | 16.7        |                | ug/L |   | 84   | 76 - 120     | 5   | 30        |
| Trichloroethene             | 20.0        | 19.8        |                | ug/L |   | 99   | 77 - 120     | 4   | 30        |
| Vinyl chloride              | 20.0        | 18.7        |                | ug/L |   | 94   | 62 - 138     | 3   | 30        |
| Xylenes, Total              | 40.0        | 37.7        |                | ug/L |   | 94   | 80 - 120     | 0   | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 84             |                | 74 - 132 |
| 4-Bromofluorobenzene         | 107            |                | 77 - 124 |
| Dibromofluoromethane (Surr)  | 100            |                | 72 - 131 |
| Toluene-d8 (Surr)            | 94             |                | 80 - 120 |

Lab Sample ID: MB 460-559112/8

Matrix: Water

Analysis Batch: 559112

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 0.24      | U            | 1.0 | 0.24 | ug/L |   |          | 10/10/18 21:57 | 1       |
| 1,1,2,2-Tetrachloroethane   | 0.37      | U            | 1.0 | 0.37 | ug/L |   |          | 10/10/18 21:57 | 1       |
| 1,1,2-Trichloroethane       | 0.43      | U            | 1.0 | 0.43 | ug/L |   |          | 10/10/18 21:57 | 1       |
| 1,1-Dichloroethane          | 0.26      | U            | 1.0 | 0.26 | ug/L |   |          | 10/10/18 21:57 | 1       |
| 1,1-Dichloroethene          | 0.12      | U            | 1.0 | 0.12 | ug/L |   |          | 10/10/18 21:57 | 1       |
| 1,2-Dichloroethane          | 0.43      | U            | 1.0 | 0.43 | ug/L |   |          | 10/10/18 21:57 | 1       |
| 1,2-Dichloropropane         | 0.35      | U            | 1.0 | 0.35 | ug/L |   |          | 10/10/18 21:57 | 1       |
| 2-Butanone (MEK)            | 1.9       | U            | 5.0 | 1.9  | ug/L |   |          | 10/10/18 21:57 | 1       |
| 2-Hexanone                  | 2.9       | U            | 5.0 | 2.9  | ug/L |   |          | 10/10/18 21:57 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7       | U            | 5.0 | 2.7  | ug/L |   |          | 10/10/18 21:57 | 1       |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-559112/8

Matrix: Water

Analysis Batch: 559112

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                   | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Acetone                   | 5.0       | U            | 5.0 | 5.0  | ug/L |   |          | 10/10/18 21:57 | 1       |
| Benzene                   | 0.43      | U            | 1.0 | 0.43 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Bromoform                 | 0.54      | U            | 1.0 | 0.54 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Bromomethane              | 1.0       | U            | 1.0 | 1.0  | ug/L |   |          | 10/10/18 21:57 | 1       |
| Carbon disulfide          | 0.16      | U            | 1.0 | 0.16 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Carbon tetrachloride      | 0.21      | U            | 1.0 | 0.21 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Chlorobenzene             | 0.38      | U            | 1.0 | 0.38 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Chlorobromomethane        | 0.41      | U            | 1.0 | 0.41 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Chloroethane              | 0.32      | U            | 1.0 | 0.32 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Chloroform                | 0.33      | U            | 1.0 | 0.33 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Chloromethane             | 0.14      | U            | 1.0 | 0.14 | ug/L |   |          | 10/10/18 21:57 | 1       |
| cis-1,2-Dichloroethene    | 0.22      | U            | 1.0 | 0.22 | ug/L |   |          | 10/10/18 21:57 | 1       |
| cis-1,3-Dichloropropene   | 0.46      | U            | 1.0 | 0.46 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Ethylbenzene              | 0.30      | U            | 1.0 | 0.30 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Methylene Chloride        | 0.32      | U            | 1.0 | 0.32 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Styrene                   | 0.42      | U            | 1.0 | 0.42 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Tetrachloroethene         | 0.25      | U            | 1.0 | 0.25 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Toluene                   | 0.38      | U            | 1.0 | 0.38 | ug/L |   |          | 10/10/18 21:57 | 1       |
| trans-1,2-Dichloroethene  | 0.24      | U            | 1.0 | 0.24 | ug/L |   |          | 10/10/18 21:57 | 1       |
| trans-1,3-Dichloropropene | 0.49      | U            | 1.0 | 0.49 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Trichloroethene           | 0.31      | U            | 1.0 | 0.31 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Vinyl chloride            | 0.17      | U            | 1.0 | 0.17 | ug/L |   |          | 10/10/18 21:57 | 1       |
| Xylenes, Total            | 0.65      | U            | 2.0 | 0.65 | ug/L |   |          | 10/10/18 21:57 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 89           |              | 74 - 132 |          | 10/10/18 21:57 | 1       |
| 4-Bromofluorobenzene         | 96           |              | 77 - 124 |          | 10/10/18 21:57 | 1       |
| Dibromofluoromethane (Surr)  | 104          |              | 72 - 131 |          | 10/10/18 21:57 | 1       |
| Toluene-d8 (Surr)            | 93           |              | 80 - 120 |          | 10/10/18 21:57 | 1       |

Lab Sample ID: LCS 460-559112/4

Matrix: Water

Analysis Batch: 559112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,1-Trichloroethane       | 20.0        | 20.2       |               | ug/L |   | 101  | 75 - 125     |
| 1,1,1,2-Tetrachloroethane   | 20.0        | 17.4       |               | ug/L |   | 87   | 74 - 120     |
| 1,1,2-Trichloroethane       | 20.0        | 19.0       |               | ug/L |   | 95   | 78 - 120     |
| 1,1-Dichloroethane          | 20.0        | 18.5       |               | ug/L |   | 92   | 77 - 123     |
| 1,1-Dichloroethene          | 20.0        | 19.0       |               | ug/L |   | 95   | 74 - 123     |
| 1,2-Dichloroethane          | 20.0        | 19.3       |               | ug/L |   | 97   | 76 - 121     |
| 1,2-Dichloropropane         | 20.0        | 18.8       |               | ug/L |   | 94   | 77 - 123     |
| 2-Butanone (MEK)            | 100         | 127        | *             | ug/L |   | 127  | 64 - 120     |
| 2-Hexanone                  | 100         | 115        |               | ug/L |   | 115  | 71 - 125     |
| 4-Methyl-2-pentanone (MIBK) | 100         | 111        |               | ug/L |   | 111  | 78 - 124     |
| Acetone                     | 100         | 120        |               | ug/L |   | 120  | 39 - 150     |
| Benzene                     | 20.0        | 19.9       |               | ug/L |   | 99   | 77 - 121     |
| Bromoform                   | 20.0        | 22.5       |               | ug/L |   | 112  | 53 - 120     |

TestAmerica Edison



# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-559112/4

Matrix: Water

Analysis Batch: 559112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Bromomethane              | 20.0        | 9.94       |               | ug/L |   | 50   | 10 - 150     |
| Carbon disulfide          | 20.0        | 17.8       |               | ug/L |   | 89   | 69 - 133     |
| Carbon tetrachloride      | 20.0        | 19.7       |               | ug/L |   | 99   | 70 - 132     |
| Chlorobenzene             | 20.0        | 20.9       |               | ug/L |   | 105  | 80 - 120     |
| Chlorobromomethane        | 20.0        | 23.0       |               | ug/L |   | 115  | 77 - 127     |
| Chlorodibromomethane      | 20.0        | 22.5       |               | ug/L |   | 113  | 73 - 120     |
| Chloroethane              | 20.0        | 18.9       |               | ug/L |   | 95   | 52 - 150     |
| Chloroform                | 20.0        | 20.6       |               | ug/L |   | 103  | 80 - 120     |
| Chloromethane             | 20.0        | 15.4       |               | ug/L |   | 77   | 56 - 131     |
| cis-1,2-Dichloroethene    | 20.0        | 20.3       |               | ug/L |   | 102  | 80 - 120     |
| cis-1,3-Dichloropropene   | 20.0        | 19.4       |               | ug/L |   | 97   | 77 - 120     |
| Dichlorobromomethane      | 20.0        | 20.6       |               | ug/L |   | 103  | 76 - 120     |
| Ethylbenzene              | 20.0        | 19.8       |               | ug/L |   | 99   | 80 - 120     |
| Methylene Chloride        | 20.0        | 20.7       |               | ug/L |   | 103  | 77 - 123     |
| Styrene                   | 20.0        | 20.7       |               | ug/L |   | 104  | 80 - 120     |
| Tetrachloroethene         | 20.0        | 23.4       |               | ug/L |   | 117  | 78 - 122     |
| Toluene                   | 20.0        | 19.5       |               | ug/L |   | 97   | 80 - 120     |
| trans-1,2-Dichloroethene  | 20.0        | 20.4       |               | ug/L |   | 102  | 79 - 120     |
| trans-1,3-Dichloropropene | 20.0        | 17.7       |               | ug/L |   | 89   | 76 - 120     |
| Trichloroethene           | 20.0        | 20.0       |               | ug/L |   | 100  | 77 - 120     |
| Vinyl chloride            | 20.0        | 16.6       |               | ug/L |   | 83   | 62 - 138     |
| Xylenes, Total            | 40.0        | 37.8       |               | ug/L |   | 95   | 80 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 89            |               | 74 - 132 |
| 4-Bromofluorobenzene         | 106           |               | 77 - 124 |
| Dibromofluoromethane (Surr)  | 101           |               | 72 - 131 |
| Toluene-d8 (Surr)            | 93            |               | 80 - 120 |

Lab Sample ID: LCSD 460-559112/5

Matrix: Water

Analysis Batch: 559112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| 1,1,1-Trichloroethane       | 20.0        | 21.5        |                | ug/L |   | 108  | 75 - 125     | 6   | 30        |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 18.4        |                | ug/L |   | 92   | 74 - 120     | 5   | 30        |
| 1,1,2-Trichloroethane       | 20.0        | 20.6        |                | ug/L |   | 103  | 78 - 120     | 8   | 30        |
| 1,1-Dichloroethane          | 20.0        | 19.5        |                | ug/L |   | 97   | 77 - 123     | 5   | 30        |
| 1,1-Dichloroethene          | 20.0        | 20.3        |                | ug/L |   | 101  | 74 - 123     | 7   | 30        |
| 1,2-Dichloroethane          | 20.0        | 19.8        |                | ug/L |   | 99   | 76 - 121     | 3   | 30        |
| 1,2-Dichloropropane         | 20.0        | 19.6        |                | ug/L |   | 98   | 77 - 123     | 4   | 30        |
| 2-Butanone (MEK)            | 100         | 121         | *              | ug/L |   | 121  | 64 - 120     | 5   | 30        |
| 2-Hexanone                  | 100         | 117         |                | ug/L |   | 117  | 71 - 125     | 2   | 30        |
| 4-Methyl-2-pentanone (MIBK) | 100         | 111         |                | ug/L |   | 111  | 78 - 124     | 0   | 30        |
| Acetone                     | 100         | 115         |                | ug/L |   | 115  | 39 - 150     | 4   | 30        |
| Benzene                     | 20.0        | 21.2        |                | ug/L |   | 106  | 77 - 121     | 6   | 30        |
| Bromoform                   | 20.0        | 23.7        |                | ug/L |   | 119  | 53 - 120     | 5   | 30        |
| Bromomethane                | 20.0        | 12.5        |                | ug/L |   | 63   | 10 - 150     | 23  | 30        |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-559112/5

Matrix: Water

Analysis Batch: 559112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                   | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Carbon disulfide          | 20.0        | 19.3        |                | ug/L |   | 97   | 69 - 133     | 8   | 30        |
| Carbon tetrachloride      | 20.0        | 22.0        |                | ug/L |   | 110  | 70 - 132     | 11  | 30        |
| Chlorobenzene             | 20.0        | 22.0        |                | ug/L |   | 110  | 80 - 120     | 5   | 30        |
| Chlorobromomethane        | 20.0        | 24.0        |                | ug/L |   | 120  | 77 - 127     | 4   | 30        |
| Chlorodibromomethane      | 20.0        | 23.1        |                | ug/L |   | 116  | 73 - 120     | 3   | 30        |
| Chloroethane              | 20.0        | 20.0        |                | ug/L |   | 100  | 52 - 150     | 6   | 30        |
| Chloroform                | 20.0        | 21.3        |                | ug/L |   | 107  | 80 - 120     | 3   | 30        |
| Chloromethane             | 20.0        | 16.4        |                | ug/L |   | 82   | 56 - 131     | 7   | 30        |
| cis-1,2-Dichloroethene    | 20.0        | 22.1        |                | ug/L |   | 110  | 80 - 120     | 8   | 30        |
| cis-1,3-Dichloropropene   | 20.0        | 20.2        |                | ug/L |   | 101  | 77 - 120     | 4   | 30        |
| Dichlorobromomethane      | 20.0        | 21.2        |                | ug/L |   | 106  | 76 - 120     | 3   | 30        |
| Ethylbenzene              | 20.0        | 21.6        |                | ug/L |   | 108  | 80 - 120     | 9   | 30        |
| Methylene Chloride        | 20.0        | 21.5        |                | ug/L |   | 107  | 77 - 123     | 4   | 30        |
| Styrene                   | 20.0        | 22.1        |                | ug/L |   | 111  | 80 - 120     | 7   | 30        |
| Tetrachloroethene         | 20.0        | 24.6 *      |                | ug/L |   | 123  | 78 - 122     | 5   | 30        |
| Toluene                   | 20.0        | 20.7        |                | ug/L |   | 103  | 80 - 120     | 6   | 30        |
| trans-1,2-Dichloroethene  | 20.0        | 21.3        |                | ug/L |   | 106  | 79 - 120     | 4   | 30        |
| trans-1,3-Dichloropropene | 20.0        | 18.4        |                | ug/L |   | 92   | 76 - 120     | 4   | 30        |
| Trichloroethene           | 20.0        | 20.7        |                | ug/L |   | 104  | 77 - 120     | 4   | 30        |
| Vinyl chloride            | 20.0        | 17.7        |                | ug/L |   | 88   | 62 - 138     | 6   | 30        |
| Xylenes, Total            | 40.0        | 41.5        |                | ug/L |   | 104  | 80 - 120     | 9   | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 86             |                | 74 - 132    |
| 4-Bromofluorobenzene         | 109            |                | 77 - 124    |
| Dibromofluoromethane (Surr)  | 99             |                | 72 - 131    |
| Toluene-d8 (Surr)            | 95             |                | 80 - 120    |

Lab Sample ID: MB 460-559235/8

Matrix: Water

Analysis Batch: 559235

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane       | 0.24      | U            | 1.0 | 0.24 | ug/L |   |          | 10/11/18 10:22 | 1       |
| 1,1,2,2-Tetrachloroethane   | 0.37      | U            | 1.0 | 0.37 | ug/L |   |          | 10/11/18 10:22 | 1       |
| 1,1,2-Trichloroethane       | 0.43      | U            | 1.0 | 0.43 | ug/L |   |          | 10/11/18 10:22 | 1       |
| 1,1-Dichloroethane          | 0.26      | U            | 1.0 | 0.26 | ug/L |   |          | 10/11/18 10:22 | 1       |
| 1,1-Dichloroethene          | 0.12      | U            | 1.0 | 0.12 | ug/L |   |          | 10/11/18 10:22 | 1       |
| 1,2-Dichloroethane          | 0.43      | U            | 1.0 | 0.43 | ug/L |   |          | 10/11/18 10:22 | 1       |
| 1,2-Dichloropropane         | 0.35      | U            | 1.0 | 0.35 | ug/L |   |          | 10/11/18 10:22 | 1       |
| 2-Butanone (MEK)            | 1.9       | U            | 5.0 | 1.9  | ug/L |   |          | 10/11/18 10:22 | 1       |
| 2-Hexanone                  | 2.9       | U            | 5.0 | 2.9  | ug/L |   |          | 10/11/18 10:22 | 1       |
| 4-Methyl-2-pentanone (MIBK) | 2.7       | U            | 5.0 | 2.7  | ug/L |   |          | 10/11/18 10:22 | 1       |
| Acetone                     | 5.0       | U            | 5.0 | 5.0  | ug/L |   |          | 10/11/18 10:22 | 1       |
| Benzene                     | 0.43      | U            | 1.0 | 0.43 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Bromoform                   | 0.54      | U            | 1.0 | 0.54 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Bromomethane                | 1.0       | U            | 1.0 | 1.0  | ug/L |   |          | 10/11/18 10:22 | 1       |
| Carbon disulfide            | 0.16      | U            | 1.0 | 0.16 | ug/L |   |          | 10/11/18 10:22 | 1       |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-559235/8

Matrix: Water

Analysis Batch: 559235

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                   | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Carbon tetrachloride      | 0.21      | U            | 1.0 | 0.21 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Chlorobenzene             | 0.38      | U            | 1.0 | 0.38 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Chlorobromomethane        | 0.41      | U            | 1.0 | 0.41 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Chloroethane              | 0.32      | U            | 1.0 | 0.32 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Chloroform                | 0.33      | U            | 1.0 | 0.33 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Chloromethane             | 0.14      | U            | 1.0 | 0.14 | ug/L |   |          | 10/11/18 10:22 | 1       |
| cis-1,2-Dichloroethene    | 0.22      | U            | 1.0 | 0.22 | ug/L |   |          | 10/11/18 10:22 | 1       |
| cis-1,3-Dichloropropene   | 0.46      | U            | 1.0 | 0.46 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Ethylbenzene              | 0.30      | U            | 1.0 | 0.30 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Methylene Chloride        | 0.32      | U            | 1.0 | 0.32 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Styrene                   | 0.42      | U            | 1.0 | 0.42 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Tetrachloroethene         | 0.25      | U            | 1.0 | 0.25 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Toluene                   | 0.38      | U            | 1.0 | 0.38 | ug/L |   |          | 10/11/18 10:22 | 1       |
| trans-1,2-Dichloroethene  | 0.24      | U            | 1.0 | 0.24 | ug/L |   |          | 10/11/18 10:22 | 1       |
| trans-1,3-Dichloropropene | 0.49      | U            | 1.0 | 0.49 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Trichloroethene           | 0.31      | U            | 1.0 | 0.31 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Vinyl chloride            | 0.17      | U            | 1.0 | 0.17 | ug/L |   |          | 10/11/18 10:22 | 1       |
| Xylenes, Total            | 0.65      | U            | 2.0 | 0.65 | ug/L |   |          | 10/11/18 10:22 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 92           |              | 74 - 132 |          | 10/11/18 10:22 | 1       |
| 4-Bromofluorobenzene         | 100          |              | 77 - 124 |          | 10/11/18 10:22 | 1       |
| Dibromofluoromethane (Surr)  | 108          |              | 72 - 131 |          | 10/11/18 10:22 | 1       |
| Toluene-d8 (Surr)            | 92           |              | 80 - 120 |          | 10/11/18 10:22 | 1       |

Lab Sample ID: LCS 460-559235/4

Matrix: Water

Analysis Batch: 559235

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1,1-Trichloroethane       | 20.0        | 21.1       |               | ug/L |   | 105  | 75 - 125     |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 17.1       |               | ug/L |   | 85   | 74 - 120     |
| 1,1,2-Trichloroethane       | 20.0        | 18.5       |               | ug/L |   | 92   | 78 - 120     |
| 1,1-Dichloroethane          | 20.0        | 18.7       |               | ug/L |   | 94   | 77 - 123     |
| 1,1-Dichloroethene          | 20.0        | 20.4       |               | ug/L |   | 102  | 74 - 123     |
| 1,2-Dichloroethane          | 20.0        | 18.8       |               | ug/L |   | 94   | 76 - 121     |
| 1,2-Dichloropropane         | 20.0        | 18.4       |               | ug/L |   | 92   | 77 - 123     |
| 2-Butanone (MEK)            | 100         | 118        |               | ug/L |   | 118  | 64 - 120     |
| 2-Hexanone                  | 100         | 108        |               | ug/L |   | 108  | 71 - 125     |
| 4-Methyl-2-pentanone (MIBK) | 100         | 101        |               | ug/L |   | 101  | 78 - 124     |
| Acetone                     | 100         | 115        |               | ug/L |   | 115  | 39 - 150     |
| Benzene                     | 20.0        | 19.9       |               | ug/L |   | 100  | 77 - 121     |
| Bromoform                   | 20.0        | 22.2       |               | ug/L |   | 111  | 53 - 120     |
| Bromomethane                | 20.0        | 15.2       |               | ug/L |   | 76   | 10 - 150     |
| Carbon disulfide            | 20.0        | 19.3       |               | ug/L |   | 96   | 69 - 133     |
| Carbon tetrachloride        | 20.0        | 21.3       |               | ug/L |   | 106  | 70 - 132     |
| Chlorobenzene               | 20.0        | 20.5       |               | ug/L |   | 103  | 80 - 120     |
| Chlorobromomethane          | 20.0        | 22.6       |               | ug/L |   | 113  | 77 - 127     |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-559235/4

Matrix: Water

Analysis Batch: 559235

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Chlorodibromomethane      | 20.0        | 21.8       |               | ug/L |   | 109  | 73 - 120     |
| Chloroethane              | 20.0        | 21.3       |               | ug/L |   | 107  | 52 - 150     |
| Chloroform                | 20.0        | 20.7       |               | ug/L |   | 103  | 80 - 120     |
| Chloromethane             | 20.0        | 17.0       |               | ug/L |   | 85   | 56 - 131     |
| cis-1,2-Dichloroethene    | 20.0        | 20.7       |               | ug/L |   | 104  | 80 - 120     |
| cis-1,3-Dichloropropene   | 20.0        | 18.9       |               | ug/L |   | 94   | 77 - 120     |
| Dichlorobromomethane      | 20.0        | 20.1       |               | ug/L |   | 101  | 76 - 120     |
| Ethylbenzene              | 20.0        | 19.2       |               | ug/L |   | 96   | 80 - 120     |
| Methylene Chloride        | 20.0        | 20.7       |               | ug/L |   | 104  | 77 - 123     |
| Styrene                   | 20.0        | 20.0       |               | ug/L |   | 100  | 80 - 120     |
| Tetrachloroethene         | 20.0        | 22.6       |               | ug/L |   | 113  | 78 - 122     |
| Toluene                   | 20.0        | 19.0       |               | ug/L |   | 95   | 80 - 120     |
| trans-1,2-Dichloroethene  | 20.0        | 20.2       |               | ug/L |   | 101  | 79 - 120     |
| trans-1,3-Dichloropropene | 20.0        | 17.0       |               | ug/L |   | 85   | 76 - 120     |
| Trichloroethene           | 20.0        | 20.5       |               | ug/L |   | 103  | 77 - 120     |
| Vinyl chloride            | 20.0        | 18.7       |               | ug/L |   | 93   | 62 - 138     |
| Xylenes, Total            | 40.0        | 37.7       |               | ug/L |   | 94   | 80 - 120     |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 88            |               | 74 - 132 |
| 4-Bromofluorobenzene         | 111           |               | 77 - 124 |
| Dibromofluoromethane (Surr)  | 103           |               | 72 - 131 |
| Toluene-d8 (Surr)            | 93            |               | 80 - 120 |

Lab Sample ID: LCSD 460-559235/5

Matrix: Water

Analysis Batch: 559235

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                     | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| 1,1,1-Trichloroethane       | 20.0        | 20.6        |                | ug/L |   | 103  | 75 - 125     | 2   | 30        |
| 1,1,2,2-Tetrachloroethane   | 20.0        | 16.9        |                | ug/L |   | 84   | 74 - 120     | 1   | 30        |
| 1,1,2-Trichloroethane       | 20.0        | 19.0        |                | ug/L |   | 95   | 78 - 120     | 2   | 30        |
| 1,1-Dichloroethane          | 20.0        | 17.7        |                | ug/L |   | 88   | 77 - 123     | 6   | 30        |
| 1,1-Dichloroethene          | 20.0        | 19.9        |                | ug/L |   | 99   | 74 - 123     | 2   | 30        |
| 1,2-Dichloroethane          | 20.0        | 18.1        |                | ug/L |   | 91   | 76 - 121     | 4   | 30        |
| 1,2-Dichloropropane         | 20.0        | 17.7        |                | ug/L |   | 89   | 77 - 123     | 4   | 30        |
| 2-Butanone (MEK)            | 100         | 119         |                | ug/L |   | 119  | 64 - 120     | 1   | 30        |
| 2-Hexanone                  | 100         | 108         |                | ug/L |   | 108  | 71 - 125     | 0   | 30        |
| 4-Methyl-2-pentanone (MIBK) | 100         | 105         |                | ug/L |   | 105  | 78 - 124     | 3   | 30        |
| Acetone                     | 100         | 110         |                | ug/L |   | 110  | 39 - 150     | 4   | 30        |
| Benzene                     | 20.0        | 19.6        |                | ug/L |   | 98   | 77 - 121     | 2   | 30        |
| Bromoform                   | 20.0        | 22.3        |                | ug/L |   | 112  | 53 - 120     | 1   | 30        |
| Bromomethane                | 20.0        | 17.1        |                | ug/L |   | 85   | 10 - 150     | 12  | 30        |
| Carbon disulfide            | 20.0        | 18.6        |                | ug/L |   | 93   | 69 - 133     | 4   | 30        |
| Carbon tetrachloride        | 20.0        | 21.0        |                | ug/L |   | 105  | 70 - 132     | 1   | 30        |
| Chlorobenzene               | 20.0        | 20.9        |                | ug/L |   | 104  | 80 - 120     | 2   | 30        |
| Chlorobromomethane          | 20.0        | 22.2        |                | ug/L |   | 111  | 77 - 127     | 2   | 30        |
| Chlorodibromomethane        | 20.0        | 21.9        |                | ug/L |   | 110  | 73 - 120     | 1   | 30        |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-559235/5

Matrix: Water

Analysis Batch: 559235

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                   | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Chloroethane              | 20.0        | 20.4        |                | ug/L |   | 102  | 52 - 150     | 4   | 30        |
| Chloroform                | 20.0        | 19.5        |                | ug/L |   | 97   | 80 - 120     | 6   | 30        |
| Chloromethane             | 20.0        | 16.5        |                | ug/L |   | 82   | 56 - 131     | 3   | 30        |
| cis-1,2-Dichloroethene    | 20.0        | 19.9        |                | ug/L |   | 100  | 80 - 120     | 4   | 30        |
| cis-1,3-Dichloropropene   | 20.0        | 19.3        |                | ug/L |   | 97   | 77 - 120     | 2   | 30        |
| Dichlorobromomethane      | 20.0        | 19.5        |                | ug/L |   | 97   | 76 - 120     | 3   | 30        |
| Ethylbenzene              | 20.0        | 20.3        |                | ug/L |   | 101  | 80 - 120     | 5   | 30        |
| Methylene Chloride        | 20.0        | 20.0        |                | ug/L |   | 100  | 77 - 123     | 3   | 30        |
| Styrene                   | 20.0        | 20.1        |                | ug/L |   | 101  | 80 - 120     | 1   | 30        |
| Tetrachloroethene         | 20.0        | 23.3        |                | ug/L |   | 117  | 78 - 122     | 3   | 30        |
| Toluene                   | 20.0        | 19.3        |                | ug/L |   | 97   | 80 - 120     | 1   | 30        |
| trans-1,2-Dichloroethene  | 20.0        | 19.9        |                | ug/L |   | 100  | 79 - 120     | 1   | 30        |
| trans-1,3-Dichloropropene | 20.0        | 17.2        |                | ug/L |   | 86   | 76 - 120     | 1   | 30        |
| Trichloroethene           | 20.0        | 20.5        |                | ug/L |   | 102  | 77 - 120     | 0   | 30        |
| Vinyl chloride            | 20.0        | 18.2        |                | ug/L |   | 91   | 62 - 138     | 3   | 30        |
| Xylenes, Total            | 40.0        | 38.2        |                | ug/L |   | 95   | 80 - 120     | 1   | 30        |

| Surrogate                    | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------------------|----------------|----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 84             |                | 74 - 132 |
| 4-Bromofluorobenzene         | 110            |                | 77 - 124 |
| Dibromofluoromethane (Surr)  | 100            |                | 72 - 131 |
| Toluene-d8 (Surr)            | 96             |                | 80 - 120 |

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 460-556636/1-A

Matrix: Water

Analysis Batch: 556593

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 556636

| Analyte          | MB Result    | MB Qualifier | RL       | MDL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|-------|------|---|----------------|----------------|---------|
| 1,4-Dioxane      | 0.016        | U            | 0.20     | 0.016 | ug/L |   | 10/01/18 23:59 | 10/02/18 15:14 | 1       |
| Isotope Dilution | MB %Recovery | MB Qualifier | Limits   |       |      |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Dioxane-d8   | 30           |              | 10 - 150 |       |      |   | 10/01/18 23:59 | 10/02/18 15:14 | 1       |

Lab Sample ID: LCS 460-556636/2-A

Matrix: Water

Analysis Batch: 556593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 556636

| Analyte          | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------|---------------|---------------|---------------|------|---|------|--------------|
| 1,4-Dioxane      | 1.60          | 1.74          |               | ug/L |   | 109  | 10 - 200     |
| Isotope Dilution | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |              |
| 1,4-Dioxane-d8   | 35            |               | 10 - 200      |      |   |      |              |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 460-165755-A-1-A MS  
Matrix: Water  
Analysis Batch: 556593

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 556636  
%Rec.

| Analyte                 | Sample Result    | Sample Qualifier | Spike Added   | MS Result | MS Qualifier | Unit | D | %Rec | Limits   |
|-------------------------|------------------|------------------|---------------|-----------|--------------|------|---|------|----------|
| 1,4-Dioxane             | 0.016            | U F1             | 1.60          | 3.75      | F1           | ug/L |   | 234  | 70 - 130 |
| <b>MS MS</b>            |                  |                  |               |           |              |      |   |      |          |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |           |              |      |   |      |          |
| 1,4-Dioxane-d8          | 35               |                  | 10 - 150      |           |              |      |   |      |          |

Lab Sample ID: 460-165755-A-1-B MSD  
Matrix: Water  
Analysis Batch: 556593

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 556636  
%Rec. RPD

| Analyte                 | Sample Result    | Sample Qualifier | Spike Added   | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
|-------------------------|------------------|------------------|---------------|------------|---------------|------|---|------|----------|-----|-------|
| 1,4-Dioxane             | 0.016            | U F1             | 1.63          | 3.72       | F1            | ug/L |   | 228  | 70 - 130 | 1   | 20    |
| <b>MSD MSD</b>          |                  |                  |               |            |               |      |   |      |          |     |       |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |            |               |      |   |      |          |     |       |
| 1,4-Dioxane-d8          | 34               |                  | 10 - 150      |            |               |      |   |      |          |     |       |

Lab Sample ID: MB 460-557439/1-A  
Matrix: Water  
Analysis Batch: 557609

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 557439

| Analyte                 | MB Result        | MB Qualifier     | RL            | MDL             | Unit            | D              | Prepared       | Analyzed       | Dil Fac |
|-------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|----------------|----------------|---------|
| 1,4-Dioxane             | 0.016            | U                | 0.20          | 0.016           | ug/L            |                | 10/04/18 16:08 | 10/05/18 06:25 | 1       |
| <b>MB MB</b>            |                  |                  |               |                 |                 |                |                |                |         |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |                |                |         |
| 1,4-Dioxane-d8          | 47               |                  | 10 - 150      | 10/04/18 16:08  | 10/05/18 06:25  | 1              |                |                |         |

Lab Sample ID: LCS 460-557439/2-A  
Matrix: Water  
Analysis Batch: 557609

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 557439  
%Rec.

| Analyte                 | Spike Added      | LCS Result       | LCS Qualifier | Unit | D | %Rec | Limits   |
|-------------------------|------------------|------------------|---------------|------|---|------|----------|
| 1,4-Dioxane             | 1.60             | 1.44             |               | ug/L |   | 90   | 10 - 200 |
| <b>LCS LCS</b>          |                  |                  |               |      |   |      |          |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |   |      |          |
| 1,4-Dioxane-d8          | 55               |                  | 10 - 200      |      |   |      |          |

Lab Sample ID: 460-165951-E-6-A MS  
Matrix: Water  
Analysis Batch: 557609

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 557439  
%Rec.

| Analyte                 | Sample Result    | Sample Qualifier | Spike Added   | MS Result | MS Qualifier | Unit | D | %Rec | Limits   |
|-------------------------|------------------|------------------|---------------|-----------|--------------|------|---|------|----------|
| 1,4-Dioxane             | 0.17             | J                | 1.60          | 1.54      |              | ug/L |   | 86   | 70 - 130 |
| <b>MS MS</b>            |                  |                  |               |           |              |      |   |      |          |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |           |              |      |   |      |          |
| 1,4-Dioxane-d8          | 48               |                  | 10 - 150      |           |              |      |   |      |          |

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 460-165951-E-6-B MSD

Matrix: Water

Analysis Batch: 557609

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 557439

| Analyte                 | Sample Result    | Sample Qualifier | Spike Added   | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------|------------------|------------------|---------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,4-Dioxane             | 0.17             | J                | 1.60          | 1.58       |               | ug/L |   | 88   | 70 - 130     | 2   | 20        |
| <b>MSD MSD</b>          |                  |                  |               |            |               |      |   |      |              |     |           |
| <b>Isotope Dilution</b> | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |            |               |      |   |      |              |     |           |
| 1,4-Dioxane-d8          | 50               |                  | 10 - 150      |            |               |      |   |      |              |     |           |

## Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-134904/1-A

Matrix: Water

Analysis Batch: 135180

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 134904

| Analyte                                                  | MB MB     |           | RL       | MDL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|-----------|-----------|----------|------|------|---|----------------|----------------|---------|
|                                                          | Result    | Qualifier |          |      |      |   |                |                |         |
| Perfluorobutanoic acid (PFBA)                            | 0.834     | J         | 2.00     | 0.41 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 0.75      | U         | 2.00     | 0.75 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 0.24      | U         | 2.00     | 0.24 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | 0.32      | U         | 2.00     | 0.32 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorooctanoic acid (PFOA)                            | 0.32      | U         | 2.00     | 0.32 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorononanoic acid (PFNA)                            | 0.38      | U         | 2.00     | 0.38 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorodecanoic acid (PFDA)                            | 0.38      | U         | 2.00     | 0.38 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | 0.293     | J         | 2.00     | 0.25 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | 0.35      | U         | 2.00     | 0.35 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | 0.24      | U         | 2.00     | 0.24 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | 0.45      | U         | 2.00     | 0.45 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | 0.44      | U         | 2.00     | 0.44 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 0.469     | J         | 2.00     | 0.26 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.82      | U         | 2.00     | 0.82 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 0.76      | U         | 2.00     | 0.76 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | 0.53      | U         | 2.00     | 0.53 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | 0.56      | U         | 2.00     | 0.56 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.45      | U         | 20.0     | 0.45 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.70      | U         | 20.0     | 0.70 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 1.00      | U         | 20.0     | 1.00 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.56      | U         | 20.0     | 0.56 | ng/L |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| MB MB                                                    |           |           |          |      |      |   |                |                |         |
| Isotope Dilution                                         | %Recovery | Qualifier | Limits   |      |      |   | Prepared       | Analyzed       | Dil Fac |
| 18O2 PFHxS                                               | 82        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C4 PFHpA                                               | 86        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C4 PFOA                                                | 98        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C4 PFOS                                                | 78        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C5 PFNA                                                | 96        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C4 PFBA                                                | 80        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C2 PFHxA                                               | 88        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C2 PFDA                                                | 95        |           | 25 - 150 |      |      |   | 10/05/18 12:20 | 10/12/18 20:23 | 1       |

TestAmerica Edison



# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-134904/1-A  
Matrix: Water  
Analysis Batch: 135180

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 134904

| Isotope Dilution | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 13C2 PFUnA       | 103             |                 | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C2 PFDoA       | 93              |                 | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C8 FOSA        | 45              |                 | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C5 PFPeA       | 87              |                 | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C2 PFTeDA      | 61              |                 | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| d3-NMeFOSAA      | 70              |                 | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| d5-NEtFOSAA      | 87              |                 | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| M2-6:2 FTS       | 111             |                 | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| M2-8:2 FTS       | 110             |                 | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:23 | 1       |
| 13C3 PFBS        | 83              |                 | 25 - 150 | 10/05/18 12:20 | 10/12/18 20:23 | 1       |

Lab Sample ID: LCS 200-134904/2-A  
Matrix: Water  
Analysis Batch: 135180

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 134904

| Analyte                                                  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | Limits   |
|----------------------------------------------------------|----------------|---------------|------------------|------|---|------|----------|
| Perfluorobutanoic acid (PFBA)                            | 40.0           | 51.55         |                  | ng/L |   | 129  | 50 - 150 |
| Perfluoropentanoic acid (PFPeA)                          | 40.0           | 43.99         |                  | ng/L |   | 110  | 50 - 150 |
| Perfluorohexanoic acid (PFHxA)                           | 40.0           | 38.63         |                  | ng/L |   | 97   | 50 - 150 |
| Perfluoroheptanoic acid (PFHpA)                          | 40.0           | 40.85         |                  | ng/L |   | 102  | 50 - 150 |
| Perfluorooctanoic acid (PFOA)                            | 40.0           | 40.62         |                  | ng/L |   | 102  | 50 - 150 |
| Perfluorononanoic acid (PFNA)                            | 40.0           | 39.99         |                  | ng/L |   | 100  | 50 - 150 |
| Perfluorodecanoic acid (PFDA)                            | 40.0           | 42.59         |                  | ng/L |   | 106  | 50 - 150 |
| Perfluoroundecanoic acid (PFUnA)                         | 40.0           | 38.53         |                  | ng/L |   | 96   | 50 - 150 |
| Perfluorododecanoic acid (PFDoA)                         | 40.0           | 40.54         |                  | ng/L |   | 101  | 50 - 150 |
| Perfluorotridecanoic acid (PFTriA)                       | 40.0           | 39.41         |                  | ng/L |   | 99   | 50 - 150 |
| Perfluorotetradecanoic acid (PFTeA)                      | 40.0           | 37.67         |                  | ng/L |   | 94   | 50 - 150 |
| Perfluorobutanesulfonic acid (PFBS)                      | 40.0           | 39.57         |                  | ng/L |   | 99   | 50 - 150 |
| Perfluorohexanesulfonic acid (PFHxS)                     | 40.0           | 38.75         |                  | ng/L |   | 97   | 50 - 150 |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 40.0           | 43.02         |                  | ng/L |   | 108  | 50 - 150 |
| Perfluorooctanesulfonic acid (PFOS)                      | 40.0           | 40.66         |                  | ng/L |   | 102  | 50 - 150 |
| Perfluorodecanesulfonic acid (PFDS)                      | 40.0           | 38.57         |                  | ng/L |   | 96   | 50 - 150 |
| Perfluorooctanesulfonamide (PFOSA)                       | 40.0           | 39.44         |                  | ng/L |   | 99   | 50 - 150 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 40.0           | 39.55         |                  | ng/L |   | 99   | 50 - 150 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 40.0           | 41.66         |                  | ng/L |   | 104  | 50 - 150 |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 40.0           | 49.47         |                  | ng/L |   | 124  | 50 - 150 |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 40.0           | 43.68         |                  | ng/L |   | 109  | 50 - 150 |

TestAmerica Edison



# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

| Isotope Dilution | LCS       |           | Limits   |
|------------------|-----------|-----------|----------|
|                  | %Recovery | Qualifier |          |
| 18O2 PFHxS       | 78        |           | 25 - 150 |
| 13C4 PFHpA       | 85        |           | 25 - 150 |
| 13C4 PFOA        | 92        |           | 25 - 150 |
| 13C4 PFOS        | 74        |           | 25 - 150 |
| 13C5 PFNA        | 94        |           | 25 - 150 |
| 13C4 PFBA        | 75        |           | 25 - 150 |
| 13C2 PFHxA       | 84        |           | 25 - 150 |
| 13C2 PFDA        | 97        |           | 25 - 150 |
| 13C2 PFUnA       | 97        |           | 25 - 150 |
| 13C2 PFDoA       | 89        |           | 25 - 150 |
| 13C8 FOSA        | 50        |           | 25 - 150 |
| 13C5 PFPeA       | 83        |           | 25 - 150 |
| 13C2 PFTeDA      | 89        |           | 25 - 150 |
| d3-NMeFOSAA      | 79        |           | 25 - 150 |
| d5-NEtFOSAA      | 87        |           | 25 - 150 |
| M2-6:2 FTS       | 97        |           | 25 - 150 |
| M2-8:2 FTS       | 105       |           | 25 - 150 |
| 13C3 PFBS        | 83        |           | 25 - 150 |

Lab Sample ID: 460-165718-A-3-B MS  
Matrix: Water  
Analysis Batch: 135180

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 134904  
%Rec.

| Analyte                                                  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits   |
|----------------------------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Perfluorobutanoic acid (PFBA)                            | 9.14          | B                | 32.7        | 52.58     |              | ng/L |   | 133  | 40 - 160 |
| Perfluoropentanoic acid (PFPeA)                          | 8.41          |                  | 32.7        | 38.95     |              | ng/L |   | 93   | 40 - 160 |
| Perfluorohexanoic acid (PFHxA)                           | 5.43          |                  | 32.7        | 36.96     |              | ng/L |   | 96   | 40 - 160 |
| Perfluoroheptanoic acid (PFHpA)                          | 5.52          |                  | 32.7        | 38.31     |              | ng/L |   | 100  | 40 - 160 |
| Perfluorooctanoic acid (PFOA)                            | 18.3          |                  | 32.7        | 51.84     |              | ng/L |   | 103  | 40 - 160 |
| Perfluorononanoic acid (PFNA)                            | 1.72          |                  | 32.7        | 34.27     |              | ng/L |   | 99   | 40 - 160 |
| Perfluorodecanoic acid (PFDA)                            | 0.33          | U                | 32.7        | 33.46     |              | ng/L |   | 102  | 40 - 160 |
| Perfluoroundecanoic acid (PFUnA)                         | 0.21          | U                | 32.7        | 29.75     |              | ng/L |   | 91   | 40 - 160 |
| Perfluorododecanoic acid (PFDoA)                         | 0.30          | U                | 32.7        | 32.67     |              | ng/L |   | 100  | 40 - 160 |
| Perfluorotridecanoic acid (PFTriA)                       | 0.21          | U                | 32.7        | 29.41     |              | ng/L |   | 90   | 40 - 160 |
| Perfluorotetradecanoic acid (PFTeA)                      | 0.38          | U                | 32.7        | 30.67     |              | ng/L |   | 94   | 40 - 160 |
| Perfluorobutanesulfonic acid (PFBS)                      | 8.92          |                  | 32.7        | 38.30     |              | ng/L |   | 90   | 40 - 160 |
| Perfluorohexanesulfonic acid (PFHxS)                     | 1.66          | J B              | 32.7        | 31.95     |              | ng/L |   | 93   | 40 - 160 |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.70          | U                | 32.7        | 36.63     |              | ng/L |   | 112  | 40 - 160 |
| Perfluorooctanesulfonic acid (PFOS)                      | 9.25          |                  | 32.7        | 45.03     |              | ng/L |   | 109  | 40 - 160 |
| Perfluorodecanesulfonic acid (PFDS)                      | 0.45          | U                | 32.7        | 34.98     |              | ng/L |   | 107  | 40 - 160 |
| Perfluorooctanesulfonamide (PFOSA)                       | 0.48          | U                | 32.7        | 33.80     |              | ng/L |   | 103  | 40 - 160 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.38          | U                | 32.7        | 33.37     |              | ng/L |   | 102  | 40 - 160 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.60          | U                | 32.7        | 33.86     |              | ng/L |   | 103  | 40 - 160 |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.86          | U                | 32.7        | 32.37     |              | ng/L |   | 99   | 40 - 160 |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 460-165718-A-3-B MS

Matrix: Water

Analysis Batch: 135180

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 134904

| Analyte                                        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2) | 0.48          | U                | 32.7        | 32.93     |              | ng/L |   | 101  | 40 - 160     |
| Isotope Dilution                               | MS %Recovery  | MS Qualifier     | Limits      |           |              |      |   |      |              |
| 18O2 PFHxS                                     | 78            |                  | 25 - 150    |           |              |      |   |      |              |
| 13C4 PFHpA                                     | 74            |                  | 25 - 150    |           |              |      |   |      |              |
| 13C4 PFOA                                      | 94            |                  | 25 - 150    |           |              |      |   |      |              |
| 13C4 PFOS                                      | 70            |                  | 25 - 150    |           |              |      |   |      |              |
| 13C5 PFNA                                      | 109           |                  | 25 - 150    |           |              |      |   |      |              |
| 13C4 PFBA                                      | 38            |                  | 25 - 150    |           |              |      |   |      |              |
| 13C2 PFHxA                                     | 45            |                  | 25 - 150    |           |              |      |   |      |              |
| 13C2 PFDA                                      | 138           |                  | 25 - 150    |           |              |      |   |      |              |
| 13C2 PFUnA                                     | 112           |                  | 25 - 150    |           |              |      |   |      |              |
| 13C2 PFDoA                                     | 122           |                  | 25 - 150    |           |              |      |   |      |              |
| 13C8 FOSA                                      | 57            |                  | 25 - 150    |           |              |      |   |      |              |
| 13C5 PFPeA                                     | 40            |                  | 25 - 150    |           |              |      |   |      |              |
| 13C2 PFTeDA                                    | 118           |                  | 25 - 150    |           |              |      |   |      |              |
| d3-NMeFOSAA                                    | 88            |                  | 25 - 150    |           |              |      |   |      |              |
| d5-NEtFOSAA                                    | 100           |                  | 25 - 150    |           |              |      |   |      |              |
| M2-6:2 FTS                                     | 171           | *                | 25 - 150    |           |              |      |   |      |              |
| M2-8:2 FTS                                     | 325           | *                | 25 - 150    |           |              |      |   |      |              |
| 13C3 PFBS                                      | 54            |                  | 25 - 150    |           |              |      |   |      |              |

Lab Sample ID: 460-165718-A-3-C MSD

Matrix: Water

Analysis Batch: 135180

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 134904

| Analyte                               | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Perfluorobutanoic acid (PFBA)         | 9.14          | B                | 32.6        | 50.43      |               | ng/L |   | 127  | 40 - 160     | 4   | 30        |
| Perfluoropentanoic acid (PFPeA)       | 8.41          |                  | 32.6        | 38.00      |               | ng/L |   | 91   | 40 - 160     | 2   | 30        |
| Perfluorohexanoic acid (PFHxA)        | 5.43          |                  | 32.6        | 39.80      |               | ng/L |   | 105  | 40 - 160     | 7   | 30        |
| Perfluoroheptanoic acid (PFHpA)       | 5.52          |                  | 32.6        | 39.60      |               | ng/L |   | 104  | 40 - 160     | 3   | 30        |
| Perfluorooctanoic acid (PFOA)         | 18.3          |                  | 32.6        | 55.44      |               | ng/L |   | 114  | 40 - 160     | 7   | 30        |
| Perfluorononanoic acid (PFNA)         | 1.72          |                  | 32.6        | 35.61      |               | ng/L |   | 104  | 40 - 160     | 4   | 30        |
| Perfluorodecanoic acid (PFDA)         | 0.33          | U                | 32.6        | 34.84      |               | ng/L |   | 107  | 40 - 160     | 4   | 30        |
| Perfluoroundecanoic acid (PFUnA)      | 0.21          | U                | 32.6        | 30.99      |               | ng/L |   | 95   | 40 - 160     | 4   | 30        |
| Perfluorododecanoic acid (PFDoA)      | 0.30          | U                | 32.6        | 33.65      |               | ng/L |   | 103  | 40 - 160     | 3   | 30        |
| Perfluorotridecanoic acid (PFTriA)    | 0.21          | U                | 32.6        | 27.27      |               | ng/L |   | 84   | 40 - 160     | 8   | 30        |
| Perfluorotetradecanoic acid (PFTeA)   | 0.38          | U                | 32.6        | 31.44      |               | ng/L |   | 96   | 40 - 160     | 2   | 30        |
| Perfluorobutanesulfonic acid (PFBS)   | 8.92          |                  | 32.6        | 43.83      |               | ng/L |   | 107  | 40 - 160     | 13  | 30        |
| Perfluorohexanesulfonic acid (PFHxS)  | 1.66          | J B              | 32.6        | 34.38      |               | ng/L |   | 100  | 40 - 160     | 7   | 30        |
| Perfluoroheptanesulfonic Acid (PFHpS) | 0.70          | U                | 32.6        | 35.32      |               | ng/L |   | 108  | 40 - 160     | 4   | 30        |
| Perfluorooctanesulfonic acid (PFOS)   | 9.25          |                  | 32.6        | 42.90      |               | ng/L |   | 103  | 40 - 160     | 5   | 30        |

TestAmerica Edison

# QC Sample Results

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 460-165718-A-3-C MSD

Matrix: Water

Analysis Batch: 135180

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 134904

| Analyte                                        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Perfluorodecanesulfonic acid (PFDS)            | 0.45          | U                | 32.6        | 30.49      |               | ng/L |   | 93   | 40 - 160     | 14  | 30        |
| Perfluorooctanesulfonamide (PFOSA)             | 0.48          | U                | 32.6        | 34.33      |               | ng/L |   | 105  | 40 - 160     | 2   | 30        |
| N-methylperfluorooctanesulfonamide (NMeFOSAA)  | 0.38          | U                | 32.6        | 32.87      |               | ng/L |   | 101  | 40 - 160     | 2   | 30        |
| N-ethylperfluorooctanesulfonamide (NEtFOSAA)   | 0.60          | U                | 32.6        | 32.92      |               | ng/L |   | 101  | 40 - 160     | 3   | 30        |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2) | 0.86          | U                | 32.6        | 32.77      |               | ng/L |   | 100  | 40 - 160     | 1   | 30        |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2) | 0.48          | U                | 32.6        | 36.99      |               | ng/L |   | 113  | 40 - 160     | 12  | 30        |

| Isotope Dilution | MSD %Recovery | MSD Qualifier | Limits   |
|------------------|---------------|---------------|----------|
| 18O2 PFHxS       | 77            |               | 25 - 150 |
| 13C4 PFHpA       | 69            |               | 25 - 150 |
| 13C4 PFOA        | 86            |               | 25 - 150 |
| 13C4 PFOS        | 75            |               | 25 - 150 |
| 13C5 PFNA        | 105           |               | 25 - 150 |
| 13C4 PFBA        | 36            |               | 25 - 150 |
| 13C2 PFHxA       | 41            |               | 25 - 150 |
| 13C2 PFDA        | 126           |               | 25 - 150 |
| 13C2 PFUnA       | 110           |               | 25 - 150 |
| 13C2 PFDoA       | 114           |               | 25 - 150 |
| 13C8 FOSA        | 42            |               | 25 - 150 |
| 13C5 PFPeA       | 44            |               | 25 - 150 |
| 13C2 PFTeDA      | 120           |               | 25 - 150 |
| d3-NMeFOSAA      | 90            |               | 25 - 150 |
| d5-NEtFOSAA      | 95            |               | 25 - 150 |
| M2-6:2 FTS       | 187           | *             | 25 - 150 |
| M2-8:2 FTS       | 341           | *             | 25 - 150 |
| 13C3 PFBS        | 58            |               | 25 - 150 |

# Definitions/Glossary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| *         | LCS or LCSD is outside acceptance limits.                                                                      |
| B         | Compound was found in the blank and sample.                                                                    |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD Recovery is outside acceptance limits.     |
| U         | Indicates the analyte was analyzed for but not detected. |

### LCMS

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| *         | Isotope Dilution analyte is outside acceptance limits.                                                         |
| U         | Indicates the analyte was analyzed for but not detected.                                                       |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B         | Compound was found in the blank and sample.                                                                    |

## Glossary

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

# QC Association Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## GC/MS VOA

### Analysis Batch: 558837

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 460-165769-3      | FSMW-13A 09262018      | Total/NA  | Water  | 8260C  |            |
| 460-165769-4      | EB1 092618             | Total/NA  | Water  | 8260C  |            |
| 460-165769-5      | FB1 09262018           | Total/NA  | Water  | 8260C  |            |
| 460-165769-7      | FSMW-1A 09272018       | Total/NA  | Water  | 8260C  |            |
| 460-165769-8      | EB2 09272018           | Total/NA  | Water  | 8260C  |            |
| 460-165769-9      | FB2 09272018           | Total/NA  | Water  | 8260C  |            |
| 460-165769-10     | FSMW-4A 09282018       | Total/NA  | Water  | 8260C  |            |
| 460-165769-12     | EB3 09282018           | Total/NA  | Water  | 8260C  |            |
| 460-165769-13     | FB3 09282018           | Total/NA  | Water  | 8260C  |            |
| 460-165769-14     | TB1 09262018           | Total/NA  | Water  | 8260C  |            |
| MB 460-558837/7   | Method Blank           | Total/NA  | Water  | 8260C  |            |
| LCS 460-558837/3  | Lab Control Sample     | Total/NA  | Water  | 8260C  |            |
| LCSD 460-558837/4 | Lab Control Sample Dup | Total/NA  | Water  | 8260C  |            |

### Analysis Batch: 558952

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 460-165769-1      | FSMW-14A 09262018      | Total/NA  | Water  | 8260C  |            |
| 460-165769-2      | FSMW-14B 09262018      | Total/NA  | Water  | 8260C  |            |
| MB 460-558952/10  | Method Blank           | Total/NA  | Water  | 8260C  |            |
| LCS 460-558952/4  | Lab Control Sample     | Total/NA  | Water  | 8260C  |            |
| LCSD 460-558952/5 | Lab Control Sample Dup | Total/NA  | Water  | 8260C  |            |

### Analysis Batch: 559112

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 460-165769-11     | FSMW-2B 09282018       | Total/NA  | Water  | 8260C  |            |
| MB 460-559112/8   | Method Blank           | Total/NA  | Water  | 8260C  |            |
| LCS 460-559112/4  | Lab Control Sample     | Total/NA  | Water  | 8260C  |            |
| LCSD 460-559112/5 | Lab Control Sample Dup | Total/NA  | Water  | 8260C  |            |

### Analysis Batch: 559235

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 460-165769-6      | FSMW-8A 09272018       | Total/NA  | Water  | 8260C  |            |
| MB 460-559235/8   | Method Blank           | Total/NA  | Water  | 8260C  |            |
| LCS 460-559235/4  | Lab Control Sample     | Total/NA  | Water  | 8260C  |            |
| LCSD 460-559235/5 | Lab Control Sample Dup | Total/NA  | Water  | 8260C  |            |

## GC/MS Semi VOA

### Analysis Batch: 556593

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method       | Prep Batch |
|----------------------|------------------------|-----------|--------|--------------|------------|
| 460-165769-1         | FSMW-14A 09262018      | Total/NA  | Water  | 8270D SIM ID | 556636     |
| 460-165769-4         | EB1 092618             | Total/NA  | Water  | 8270D SIM ID | 556636     |
| 460-165769-5         | FB1 09262018           | Total/NA  | Water  | 8270D SIM ID | 556636     |
| 460-165769-6         | FSMW-8A 09272018       | Total/NA  | Water  | 8270D SIM ID | 556636     |
| 460-165769-7         | FSMW-1A 09272018       | Total/NA  | Water  | 8270D SIM ID | 556636     |
| 460-165769-9         | FB2 09272018           | Total/NA  | Water  | 8270D SIM ID | 556636     |
| MB 460-556636/1-A    | Method Blank           | Total/NA  | Water  | 8270D SIM ID | 556636     |
| LCS 460-556636/2-A   | Lab Control Sample     | Total/NA  | Water  | 8270D SIM ID | 556636     |
| 460-165755-A-1-A MS  | Matrix Spike           | Total/NA  | Water  | 8270D SIM ID | 556636     |
| 460-165755-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8270D SIM ID | 556636     |

TestAmerica Edison

# QC Association Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 556636

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 460-165769-1         | FSMW-14A 09262018      | Total/NA  | Water  | 3510C  |            |
| 460-165769-4         | EB1 092618             | Total/NA  | Water  | 3510C  |            |
| 460-165769-5         | FB1 09262018           | Total/NA  | Water  | 3510C  |            |
| 460-165769-6         | FSMW-8A 09272018       | Total/NA  | Water  | 3510C  |            |
| 460-165769-7         | FSMW-1A 09272018       | Total/NA  | Water  | 3510C  |            |
| 460-165769-9         | FB2 09272018           | Total/NA  | Water  | 3510C  |            |
| MB 460-556636/1-A    | Method Blank           | Total/NA  | Water  | 3510C  |            |
| LCS 460-556636/2-A   | Lab Control Sample     | Total/NA  | Water  | 3510C  |            |
| 460-165755-A-1-A MS  | Matrix Spike           | Total/NA  | Water  | 3510C  |            |
| 460-165755-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | 3510C  |            |

### Prep Batch: 557439

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 460-165769-8         | EB2 09272018           | Total/NA  | Water  | 3510C  |            |
| MB 460-557439/1-A    | Method Blank           | Total/NA  | Water  | 3510C  |            |
| LCS 460-557439/2-A   | Lab Control Sample     | Total/NA  | Water  | 3510C  |            |
| 460-165951-E-6-A MS  | Matrix Spike           | Total/NA  | Water  | 3510C  |            |
| 460-165951-E-6-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | 3510C  |            |

### Analysis Batch: 557609

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method       | Prep Batch |
|----------------------|------------------------|-----------|--------|--------------|------------|
| 460-165769-8         | EB2 09272018           | Total/NA  | Water  | 8270D SIM ID | 557439     |
| MB 460-557439/1-A    | Method Blank           | Total/NA  | Water  | 8270D SIM ID | 557439     |
| LCS 460-557439/2-A   | Lab Control Sample     | Total/NA  | Water  | 8270D SIM ID | 557439     |
| 460-165951-E-6-A MS  | Matrix Spike           | Total/NA  | Water  | 8270D SIM ID | 557439     |
| 460-165951-E-6-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8270D SIM ID | 557439     |

## LCMS

### Prep Batch: 134904

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 460-165769-1         | FSMW-14A 09262018      | Total/NA  | Water  | 3535   |            |
| 460-165769-4         | EB1 092618             | Total/NA  | Water  | 3535   |            |
| 460-165769-5         | FB1 09262018           | Total/NA  | Water  | 3535   |            |
| 460-165769-6         | FSMW-8A 09272018       | Total/NA  | Water  | 3535   |            |
| 460-165769-7         | FSMW-1A 09272018       | Total/NA  | Water  | 3535   |            |
| 460-165769-8         | EB2 09272018           | Total/NA  | Water  | 3535   |            |
| 460-165769-9         | FB2 09272018           | Total/NA  | Water  | 3535   |            |
| MB 200-134904/1-A    | Method Blank           | Total/NA  | Water  | 3535   |            |
| LCS 200-134904/2-A   | Lab Control Sample     | Total/NA  | Water  | 3535   |            |
| 460-165718-A-3-B MS  | Matrix Spike           | Total/NA  | Water  | 3535   |            |
| 460-165718-A-3-C MSD | Matrix Spike Duplicate | Total/NA  | Water  | 3535   |            |

### Analysis Batch: 135180

| Lab Sample ID | Client Sample ID  | Prep Type | Matrix | Method         | Prep Batch |
|---------------|-------------------|-----------|--------|----------------|------------|
| 460-165769-1  | FSMW-14A 09262018 | Total/NA  | Water  | 537 (modified) | 134904     |
| 460-165769-4  | EB1 092618        | Total/NA  | Water  | 537 (modified) | 134904     |
| 460-165769-5  | FB1 09262018      | Total/NA  | Water  | 537 (modified) | 134904     |
| 460-165769-6  | FSMW-8A 09272018  | Total/NA  | Water  | 537 (modified) | 134904     |
| 460-165769-7  | FSMW-1A 09272018  | Total/NA  | Water  | 537 (modified) | 134904     |

TestAmerica Edison

## QC Association Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

### LCMS (Continued)

#### Analysis Batch: 135180 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method         | Prep Batch |
|----------------------|------------------------|-----------|--------|----------------|------------|
| 460-165769-8         | EB2 09272018           | Total/NA  | Water  | 537 (modified) | 134904     |
| 460-165769-9         | FB2 09272018           | Total/NA  | Water  | 537 (modified) | 134904     |
| MB 200-134904/1-A    | Method Blank           | Total/NA  | Water  | 537 (modified) | 134904     |
| LCS 200-134904/2-A   | Lab Control Sample     | Total/NA  | Water  | 537 (modified) | 134904     |
| 460-165718-A-3-B MS  | Matrix Spike           | Total/NA  | Water  | 537 (modified) | 134904     |
| 460-165718-A-3-C MSD | Matrix Spike Duplicate | Total/NA  | Water  | 537 (modified) | 134904     |

# Lab Chronicle

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-14A 09262018**

**Date Collected: 09/26/18 11:05**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-1**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 20              | 558952       | 10/10/18 14:07       | CJM     | TAL EDI |
| Total/NA  | Prep       | 3510C          |     |                 | 556636       | 10/01/18 23:59       | GXY     | TAL EDI |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 1               | 556593       | 10/02/18 17:50       | MME     | TAL EDI |
| Total/NA  | Prep       | 3535           |     |                 | 134904       | 10/05/18 12:20       | JM1     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 135180       | 10/12/18 20:55       | BWC     | TAL BUR |

**Client Sample ID: FSMW-14B 09262018**

**Date Collected: 09/26/18 13:25**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-2**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 5               | 558952       | 10/10/18 13:40       | CJM     | TAL EDI |

**Client Sample ID: FSMW-13A 09262018**

**Date Collected: 09/26/18 15:00**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-3**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 558837       | 10/10/18 05:10       | VBP     | TAL EDI |

**Client Sample ID: EB1 092618**

**Date Collected: 09/26/18 11:20**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-4**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 1               | 558837       | 10/09/18 22:54       | VBP     | TAL EDI |
| Total/NA  | Prep       | 3510C          |     |                 | 556636       | 10/01/18 23:59       | GXY     | TAL EDI |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 1               | 556593       | 10/02/18 18:07       | MME     | TAL EDI |
| Total/NA  | Prep       | 3535           |     |                 | 134904       | 10/05/18 12:20       | JM1     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 135180       | 10/12/18 21:11       | BWC     | TAL BUR |

**Client Sample ID: FB1 09262018**

**Date Collected: 09/26/18 13:00**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-5**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 1               | 558837       | 10/09/18 23:21       | VBP     | TAL EDI |
| Total/NA  | Prep       | 3510C          |     |                 | 556636       | 10/01/18 23:59       | GXY     | TAL EDI |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 1               | 556593       | 10/02/18 18:25       | MME     | TAL EDI |
| Total/NA  | Prep       | 3535           |     |                 | 134904       | 10/05/18 12:20       | JM1     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 135180       | 10/12/18 21:26       | BWC     | TAL BUR |



# Lab Chronicle

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-8A 09272018**

**Date Collected: 09/27/18 11:00**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-6**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 1               | 559235       | 10/11/18 11:49       | CJM     | TAL EDI |
| Total/NA  | Prep       | 3510C          |     |                 | 556636       | 10/01/18 23:59       | GXY     | TAL EDI |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 1               | 556593       | 10/02/18 18:42       | MME     | TAL EDI |
| Total/NA  | Prep       | 3535           |     |                 | 134904       | 10/05/18 12:20       | JM1     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 135180       | 10/12/18 21:42       | BWC     | TAL BUR |

**Client Sample ID: FSMW-1A 09272018**

**Date Collected: 09/27/18 14:20**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-7**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 1               | 558837       | 10/10/18 06:03       | VBP     | TAL EDI |
| Total/NA  | Prep       | 3510C          |     |                 | 556636       | 10/01/18 23:59       | GXY     | TAL EDI |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 1               | 556593       | 10/02/18 18:59       | MME     | TAL EDI |
| Total/NA  | Prep       | 3535           |     |                 | 134904       | 10/05/18 12:20       | JM1     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 135180       | 10/12/18 21:58       | BWC     | TAL BUR |

**Client Sample ID: EB2 09272018**

**Date Collected: 09/27/18 11:30**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-8**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 1               | 558837       | 10/09/18 23:47       | VBP     | TAL EDI |
| Total/NA  | Prep       | 3510C          |     |                 | 557439       | 10/04/18 22:46       | MIS     | TAL EDI |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 1               | 557609       | 10/05/18 09:36       | FAM     | TAL EDI |
| Total/NA  | Prep       | 3535           |     |                 | 134904       | 10/05/18 12:20       | JM1     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 135180       | 10/12/18 22:14       | BWC     | TAL BUR |

**Client Sample ID: FB2 09272018**

**Date Collected: 09/27/18 13:00**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-9**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C          |     | 1               | 558837       | 10/10/18 00:14       | VBP     | TAL EDI |
| Total/NA  | Prep       | 3510C          |     |                 | 556636       | 10/01/18 23:59       | GXY     | TAL EDI |
| Total/NA  | Analysis   | 8270D SIM ID   |     | 1               | 556593       | 10/02/18 19:17       | MME     | TAL EDI |
| Total/NA  | Prep       | 3535           |     |                 | 134904       | 10/05/18 12:20       | JM1     | TAL BUR |
| Total/NA  | Analysis   | 537 (modified) |     | 1               | 135180       | 10/12/18 22:30       | BWC     | TAL BUR |

# Lab Chronicle

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

**Client Sample ID: FSMW-4A 09282018**

**Date Collected: 09/28/18 11:55**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-10**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 558837       | 10/10/18 06:30       | VBP     | TAL EDI |

**Client Sample ID: FSMW-2B 09282018**

**Date Collected: 09/28/18 13:50**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-11**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 559112       | 10/11/18 01:06       | VBP     | TAL EDI |

**Client Sample ID: EB3 09282018**

**Date Collected: 09/28/18 12:15**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-12**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 558837       | 10/10/18 00:41       | VBP     | TAL EDI |

**Client Sample ID: FB3 09282018**

**Date Collected: 09/28/18 12:45**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-13**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 558837       | 10/10/18 01:08       | VBP     | TAL EDI |

**Client Sample ID: TB1 09262018**

**Date Collected: 09/28/18 13:50**

**Date Received: 09/28/18 20:00**

**Lab Sample ID: 460-165769-14**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260C        |     | 1               | 558837       | 10/10/18 01:35       | VBP     | TAL EDI |

## Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Accreditation/Certification Summary

Client: EnSafe, Inc.  
Project/Site: FROST ST

TestAmerica Job ID: 460-165769-1

## Laboratory: TestAmerica Edison

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-----------|---------|------------|-----------------------|-----------------|
| New York  | NELAP   | 2          | 11452                 | 04-01-19        |

## Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority                         | Program       | EPA Region | Identification Number | Expiration Date |
|-----------------------------------|---------------|------------|-----------------------|-----------------|
| ANAB                              | DoD ELAP      |            | L2336                 | 02-25-20        |
| Connecticut                       | State Program | 1          | PH-0751               | 09-30-19        |
| DE Haz. Subst. Cleanup Act (HSCA) | State Program | 3          | NA                    | 02-01-19        |
| Florida                           | NELAP         | 4          | E87467                | 06-30-19        |
| Maine                             | State Program | 1          | VT00008               | 04-17-19        |
| Minnesota                         | NELAP         | 5          | 050-999-436           | 12-31-18        |
| New Hampshire                     | NELAP         | 1          | 2006                  | 12-18-18 *      |
| New Jersey                        | NELAP         | 2          | VT972                 | 06-30-19        |
| New York                          | NELAP         | 2          | 10391                 | 04-01-19        |
| Pennsylvania                      | NELAP         | 3          | 68-00489              | 04-30-19        |
| Rhode Island                      | State Program | 1          | LAO00298              | 12-30-18        |
| US Fish & Wildlife                | Federal       |            | LE-058448-0           | 07-31-19        |
| USDA                              | Federal       |            | P330-11-00093         | 07-24-20        |
| Vermont                           | State Program | 1          | VT-4000               | 12-31-18        |
| Virginia                          | NELAP         | 3          | 460209                | 12-14-18 *      |

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Edison

# 8260C

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Volatile Organic Compounds by GC/MS

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low  
 GC Column (1): Rtx-624 ID: 0.25 (mm)

| Client Sample ID  | Lab Sample ID        | DBFM # | DCA # | TOL # | BFB # |
|-------------------|----------------------|--------|-------|-------|-------|
| FSMW-14A 09262018 | 460-165769-1         | 109    | 96    | 91    | 95    |
| FSMW-14B 09262018 | 460-165769-2         | 110    | 96    | 92    | 95    |
| FSMW-13A 09262018 | 460-165769-3         | 111    | 99    | 93    | 97    |
| EB1 092618        | 460-165769-4         | 105    | 93    | 94    | 98    |
| FB1 09262018      | 460-165769-5         | 107    | 94    | 92    | 97    |
| FSMW-8A 09272018  | 460-165769-6         | 109    | 93    | 92    | 95    |
| FSMW-1A 09272018  | 460-165769-7         | 110    | 96    | 92    | 93    |
| EB2 09272018      | 460-165769-8         | 106    | 92    | 88    | 89    |
| FB2 09272018      | 460-165769-9         | 109    | 95    | 93    | 96    |
| FSMW-4A 09282018  | 460-165769-10        | 111    | 98    | 91    | 95    |
| FSMW-2B 09282018  | 460-165769-11        | 108    | 92    | 93    | 94    |
| EB3 09282018      | 460-165769-12        | 110    | 94    | 92    | 95    |
| FB3 09282018      | 460-165769-13        | 110    | 94    | 95    | 97    |
| TB1 09262018      | 460-165769-14        | 109    | 94    | 92    | 93    |
|                   | MB 460-558837/7      | 106    | 91    | 91    | 96    |
|                   | MB 460-558952/10     | 107    | 94    | 94    | 101   |
|                   | MB 460-559112/8      | 104    | 89    | 93    | 96    |
|                   | MB 460-559235/8      | 108    | 92    | 92    | 100   |
|                   | LCS 460-558837/3     | 100    | 86    | 96    | 108   |
|                   | LCS 460-558952/4     | 101    | 87    | 96    | 107   |
|                   | LCS 460-559112/4     | 101    | 89    | 93    | 106   |
|                   | LCS 460-559235/4     | 103    | 88    | 93    | 111   |
|                   | LCSD<br>460-558837/4 | 99     | 89    | 94    | 108   |
|                   | LCSD<br>460-558952/5 | 100    | 84    | 94    | 107   |
|                   | LCSD<br>460-559112/5 | 99     | 86    | 95    | 109   |
|                   | LCSD<br>460-559235/5 | 100    | 84    | 96    | 110   |

|                                    |                  |
|------------------------------------|------------------|
|                                    | <u>QC LIMITS</u> |
| DBFM = Dibromofluoromethane (Surr) | 72-131           |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 74-132           |
| TOL = Toluene-d8 (Surr)            | 80-120           |
| BFB = 4-Bromofluorobenzene         | 77-124           |

# Column to be used to flag recovery values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: J76038.D  
 Lab ID: LCS 460-558837/3 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-----------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1-Trichloroethane       | 20.0                     | 20.4                           | 102             | 75-125              |   |
| 1,1,2,2-Tetrachloroethane   | 20.0                     | 17.3                           | 86              | 74-120              |   |
| 1,1,2-Trichloroethane       | 20.0                     | 19.0                           | 95              | 78-120              |   |
| 1,1-Dichloroethane          | 20.0                     | 18.2                           | 91              | 77-123              |   |
| 1,1-Dichloroethene          | 20.0                     | 19.6                           | 98              | 74-123              |   |
| 1,2-Dichloroethane          | 20.0                     | 18.6                           | 93              | 76-121              |   |
| 1,2-Dichloropropane         | 20.0                     | 18.5                           | 92              | 77-123              |   |
| 2-Butanone (MEK)            | 100                      | 109                            | 109             | 64-120              |   |
| 2-Hexanone                  | 100                      | 106                            | 106             | 71-125              |   |
| 4-Methyl-2-pentanone (MIBK) | 100                      | 101                            | 101             | 78-124              |   |
| Acetone                     | 100                      | 107                            | 107             | 39-150              |   |
| Benzene                     | 20.0                     | 20.1                           | 101             | 77-121              |   |
| Bromoform                   | 20.0                     | 22.5                           | 112             | 53-120              |   |
| Bromomethane                | 20.0                     | 12.0                           | 60              | 10-150              |   |
| Carbon disulfide            | 20.0                     | 18.7                           | 94              | 69-133              |   |
| Carbon tetrachloride        | 20.0                     | 21.1                           | 106             | 70-132              |   |
| Chlorobenzene               | 20.0                     | 21.0                           | 105             | 80-120              |   |
| Chlorobromomethane          | 20.0                     | 21.7                           | 108             | 77-127              |   |
| Chlorodibromomethane        | 20.0                     | 21.6                           | 108             | 73-120              |   |
| Chloroethane                | 20.0                     | 20.1                           | 100             | 52-150              |   |
| Chloroform                  | 20.0                     | 20.6                           | 103             | 80-120              |   |
| Chloromethane               | 20.0                     | 17.0                           | 85              | 56-131              |   |
| cis-1,2-Dichloroethene      | 20.0                     | 20.0                           | 100             | 80-120              |   |
| cis-1,3-Dichloropropene     | 20.0                     | 18.7                           | 93              | 77-120              |   |
| Dichlorobromomethane        | 20.0                     | 19.6                           | 98              | 76-120              |   |
| Ethylbenzene                | 20.0                     | 20.0                           | 100             | 80-120              |   |
| Methylene Chloride          | 20.0                     | 20.0                           | 100             | 77-123              |   |
| Styrene                     | 20.0                     | 20.5                           | 102             | 80-120              |   |
| Tetrachloroethene           | 20.0                     | 23.4                           | 117             | 78-122              |   |
| Toluene                     | 20.0                     | 20.1                           | 100             | 80-120              |   |
| trans-1,2-Dichloroethene    | 20.0                     | 20.5                           | 103             | 79-120              |   |
| trans-1,3-Dichloropropene   | 20.0                     | 17.3                           | 87              | 76-120              |   |
| Trichloroethene             | 20.0                     | 19.7                           | 98              | 77-120              |   |
| Vinyl chloride              | 20.0                     | 18.1                           | 90              | 62-138              |   |
| Xylenes, Total              | 40.0                     | 37.3                           | 93              | 80-120              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: J76067.D  
 Lab ID: LCS 460-558952/4 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-----------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1-Trichloroethane       | 20.0                     | 20.9                           | 104             | 75-125              |   |
| 1,1,2,2-Tetrachloroethane   | 20.0                     | 17.5                           | 88              | 74-120              |   |
| 1,1,2-Trichloroethane       | 20.0                     | 19.4                           | 97              | 78-120              |   |
| 1,1-Dichloroethane          | 20.0                     | 18.4                           | 92              | 77-123              |   |
| 1,1-Dichloroethene          | 20.0                     | 19.9                           | 100             | 74-123              |   |
| 1,2-Dichloroethane          | 20.0                     | 18.7                           | 93              | 76-121              |   |
| 1,2-Dichloropropane         | 20.0                     | 18.9                           | 94              | 77-123              |   |
| 2-Butanone (MEK)            | 100                      | 124                            | 124             | 64-120              | * |
| 2-Hexanone                  | 100                      | 113                            | 113             | 71-125              |   |
| 4-Methyl-2-pentanone (MIBK) | 100                      | 109                            | 109             | 78-124              |   |
| Acetone                     | 100                      | 110                            | 110             | 39-150              |   |
| Benzene                     | 20.0                     | 20.3                           | 101             | 77-121              |   |
| Bromoform                   | 20.0                     | 23.4                           | 117             | 53-120              |   |
| Bromomethane                | 20.0                     | 16.2                           | 81              | 10-150              |   |
| Carbon disulfide            | 20.0                     | 19.0                           | 95              | 69-133              |   |
| Carbon tetrachloride        | 20.0                     | 21.1                           | 106             | 70-132              |   |
| Chlorobenzene               | 20.0                     | 21.2                           | 106             | 80-120              |   |
| Chlorobromomethane          | 20.0                     | 23.0                           | 115             | 77-127              |   |
| Chlorodibromomethane        | 20.0                     | 22.1                           | 111             | 73-120              |   |
| Chloroethane                | 20.0                     | 20.5                           | 103             | 52-150              |   |
| Chloroform                  | 20.0                     | 20.7                           | 103             | 80-120              |   |
| Chloromethane               | 20.0                     | 16.3                           | 82              | 56-131              |   |
| cis-1,2-Dichloroethene      | 20.0                     | 20.1                           | 101             | 80-120              |   |
| cis-1,3-Dichloropropene     | 20.0                     | 19.4                           | 97              | 77-120              |   |
| Dichlorobromomethane        | 20.0                     | 20.4                           | 102             | 76-120              |   |
| Ethylbenzene                | 20.0                     | 20.2                           | 101             | 80-120              |   |
| Methylene Chloride          | 20.0                     | 20.1                           | 101             | 77-123              |   |
| Styrene                     | 20.0                     | 20.9                           | 104             | 80-120              |   |
| Tetrachloroethene           | 20.0                     | 24.0                           | 120             | 78-122              |   |
| Toluene                     | 20.0                     | 19.5                           | 98              | 80-120              |   |
| trans-1,2-Dichloroethene    | 20.0                     | 20.9                           | 105             | 79-120              |   |
| trans-1,3-Dichloropropene   | 20.0                     | 17.6                           | 88              | 76-120              |   |
| Trichloroethene             | 20.0                     | 20.6                           | 103             | 77-120              |   |
| Vinyl chloride              | 20.0                     | 18.1                           | 91              | 62-138              |   |
| Xylenes, Total              | 40.0                     | 37.9                           | 95              | 80-120              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: J76067.D  
 Lab ID: LCS 460-559112/4 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-----------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1-Trichloroethane       | 20.0                     | 20.2                           | 101             | 75-125              |   |
| 1,1,2,2-Tetrachloroethane   | 20.0                     | 17.4                           | 87              | 74-120              |   |
| 1,1,2-Trichloroethane       | 20.0                     | 19.0                           | 95              | 78-120              |   |
| 1,1-Dichloroethane          | 20.0                     | 18.5                           | 92              | 77-123              |   |
| 1,1-Dichloroethene          | 20.0                     | 19.0                           | 95              | 74-123              |   |
| 1,2-Dichloroethane          | 20.0                     | 19.3                           | 97              | 76-121              |   |
| 1,2-Dichloropropane         | 20.0                     | 18.8                           | 94              | 77-123              |   |
| 2-Butanone (MEK)            | 100                      | 127                            | 127             | 64-120              | * |
| 2-Hexanone                  | 100                      | 115                            | 115             | 71-125              |   |
| 4-Methyl-2-pentanone (MIBK) | 100                      | 111                            | 111             | 78-124              |   |
| Acetone                     | 100                      | 120                            | 120             | 39-150              |   |
| Benzene                     | 20.0                     | 19.9                           | 99              | 77-121              |   |
| Bromoform                   | 20.0                     | 22.5                           | 112             | 53-120              |   |
| Bromomethane                | 20.0                     | 9.94                           | 50              | 10-150              |   |
| Carbon disulfide            | 20.0                     | 17.8                           | 89              | 69-133              |   |
| Carbon tetrachloride        | 20.0                     | 19.7                           | 99              | 70-132              |   |
| Chlorobenzene               | 20.0                     | 20.9                           | 105             | 80-120              |   |
| Chlorobromomethane          | 20.0                     | 23.0                           | 115             | 77-127              |   |
| Chlorodibromomethane        | 20.0                     | 22.5                           | 113             | 73-120              |   |
| Chloroethane                | 20.0                     | 18.9                           | 95              | 52-150              |   |
| Chloroform                  | 20.0                     | 20.6                           | 103             | 80-120              |   |
| Chloromethane               | 20.0                     | 15.4                           | 77              | 56-131              |   |
| cis-1,2-Dichloroethene      | 20.0                     | 20.3                           | 102             | 80-120              |   |
| cis-1,3-Dichloropropene     | 20.0                     | 19.4                           | 97              | 77-120              |   |
| Dichlorobromomethane        | 20.0                     | 20.6                           | 103             | 76-120              |   |
| Ethylbenzene                | 20.0                     | 19.8                           | 99              | 80-120              |   |
| Methylene Chloride          | 20.0                     | 20.7                           | 103             | 77-123              |   |
| Styrene                     | 20.0                     | 20.7                           | 104             | 80-120              |   |
| Tetrachloroethene           | 20.0                     | 23.4                           | 117             | 78-122              |   |
| Toluene                     | 20.0                     | 19.5                           | 97              | 80-120              |   |
| trans-1,2-Dichloroethene    | 20.0                     | 20.4                           | 102             | 79-120              |   |
| trans-1,3-Dichloropropene   | 20.0                     | 17.7                           | 89              | 76-120              |   |
| Trichloroethene             | 20.0                     | 20.0                           | 100             | 77-120              |   |
| Vinyl chloride              | 20.0                     | 16.6                           | 83              | 62-138              |   |
| Xylenes, Total              | 40.0                     | 37.8                           | 95              | 80-120              |   |

# Column to be used to flag recovery and RPD values



FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: J76117.D  
 Lab ID: LCS 460-559235/4 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-----------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1,1-Trichloroethane       | 20.0                     | 21.1                           | 105             | 75-125              |   |
| 1,1,2,2-Tetrachloroethane   | 20.0                     | 17.1                           | 85              | 74-120              |   |
| 1,1,2-Trichloroethane       | 20.0                     | 18.5                           | 92              | 78-120              |   |
| 1,1-Dichloroethane          | 20.0                     | 18.7                           | 94              | 77-123              |   |
| 1,1-Dichloroethene          | 20.0                     | 20.4                           | 102             | 74-123              |   |
| 1,2-Dichloroethane          | 20.0                     | 18.8                           | 94              | 76-121              |   |
| 1,2-Dichloropropane         | 20.0                     | 18.4                           | 92              | 77-123              |   |
| 2-Butanone (MEK)            | 100                      | 118                            | 118             | 64-120              |   |
| 2-Hexanone                  | 100                      | 108                            | 108             | 71-125              |   |
| 4-Methyl-2-pentanone (MIBK) | 100                      | 101                            | 101             | 78-124              |   |
| Acetone                     | 100                      | 115                            | 115             | 39-150              |   |
| Benzene                     | 20.0                     | 19.9                           | 100             | 77-121              |   |
| Bromoform                   | 20.0                     | 22.2                           | 111             | 53-120              |   |
| Bromomethane                | 20.0                     | 15.2                           | 76              | 10-150              |   |
| Carbon disulfide            | 20.0                     | 19.3                           | 96              | 69-133              |   |
| Carbon tetrachloride        | 20.0                     | 21.3                           | 106             | 70-132              |   |
| Chlorobenzene               | 20.0                     | 20.5                           | 103             | 80-120              |   |
| Chlorobromomethane          | 20.0                     | 22.6                           | 113             | 77-127              |   |
| Chlorodibromomethane        | 20.0                     | 21.8                           | 109             | 73-120              |   |
| Chloroethane                | 20.0                     | 21.3                           | 107             | 52-150              |   |
| Chloroform                  | 20.0                     | 20.7                           | 103             | 80-120              |   |
| Chloromethane               | 20.0                     | 17.0                           | 85              | 56-131              |   |
| cis-1,2-Dichloroethene      | 20.0                     | 20.7                           | 104             | 80-120              |   |
| cis-1,3-Dichloropropene     | 20.0                     | 18.9                           | 94              | 77-120              |   |
| Dichlorobromomethane        | 20.0                     | 20.1                           | 101             | 76-120              |   |
| Ethylbenzene                | 20.0                     | 19.2                           | 96              | 80-120              |   |
| Methylene Chloride          | 20.0                     | 20.7                           | 104             | 77-123              |   |
| Styrene                     | 20.0                     | 20.0                           | 100             | 80-120              |   |
| Tetrachloroethene           | 20.0                     | 22.6                           | 113             | 78-122              |   |
| Toluene                     | 20.0                     | 19.0                           | 95              | 80-120              |   |
| trans-1,2-Dichloroethene    | 20.0                     | 20.2                           | 101             | 79-120              |   |
| trans-1,3-Dichloropropene   | 20.0                     | 17.0                           | 85              | 76-120              |   |
| Trichloroethene             | 20.0                     | 20.5                           | 103             | 77-120              |   |
| Vinyl chloride              | 20.0                     | 18.7                           | 93              | 62-138              |   |
| Xylenes, Total              | 40.0                     | 37.7                           | 94              | 80-120              |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: J76039.D  
 Lab ID: LCSD 460-558837/4 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCSD<br>CONCENTRATION<br>(ug/L) | LCSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|-----------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|---|
|                             |                          |                                 |                  |          | RPD       | REC    |   |
| 1,1,1-Trichloroethane       | 20.0                     | 19.2                            | 96               | 6        | 30        | 75-125 |   |
| 1,1,2,2-Tetrachloroethane   | 20.0                     | 16.4                            | 82               | 5        | 30        | 74-120 |   |
| 1,1,2-Trichloroethane       | 20.0                     | 18.5                            | 92               | 3        | 30        | 78-120 |   |
| 1,1-Dichloroethane          | 20.0                     | 17.2                            | 86               | 5        | 30        | 77-123 |   |
| 1,1-Dichloroethene          | 20.0                     | 18.2                            | 91               | 7        | 30        | 74-123 |   |
| 1,2-Dichloroethane          | 20.0                     | 18.3                            | 92               | 2        | 30        | 76-121 |   |
| 1,2-Dichloropropane         | 20.0                     | 17.6                            | 88               | 5        | 30        | 77-123 |   |
| 2-Butanone (MEK)            | 100                      | 113                             | 113              | 4        | 30        | 64-120 |   |
| 2-Hexanone                  | 100                      | 108                             | 108              | 2        | 30        | 71-125 |   |
| 4-Methyl-2-pentanone (MIBK) | 100                      | 103                             | 103              | 2        | 30        | 78-124 |   |
| Acetone                     | 100                      | 109                             | 109              | 2        | 30        | 39-150 |   |
| Benzene                     | 20.0                     | 19.4                            | 97               | 4        | 30        | 77-121 |   |
| Bromoform                   | 20.0                     | 21.5                            | 107              | 5        | 30        | 53-120 |   |
| Bromomethane                | 20.0                     | 11.4                            | 57               | 5        | 30        | 10-150 |   |
| Carbon disulfide            | 20.0                     | 17.5                            | 87               | 7        | 30        | 69-133 |   |
| Carbon tetrachloride        | 20.0                     | 19.7                            | 98               | 7        | 30        | 70-132 |   |
| Chlorobenzene               | 20.0                     | 19.9                            | 99               | 6        | 30        | 80-120 |   |
| Chlorobromomethane          | 20.0                     | 21.7                            | 108              | 0        | 30        | 77-127 |   |
| Chlorodibromomethane        | 20.0                     | 20.8                            | 104              | 4        | 30        | 73-120 |   |
| Chloroethane                | 20.0                     | 18.7                            | 93               | 7        | 30        | 52-150 |   |
| Chloroform                  | 20.0                     | 19.6                            | 98               | 5        | 30        | 80-120 |   |
| Chloromethane               | 20.0                     | 16.1                            | 80               | 6        | 30        | 56-131 |   |
| cis-1,2-Dichloroethene      | 20.0                     | 20.0                            | 100              | 0        | 30        | 80-120 |   |
| cis-1,3-Dichloropropene     | 20.0                     | 18.4                            | 92               | 1        | 30        | 77-120 |   |
| Dichlorobromomethane        | 20.0                     | 19.6                            | 98               | 0        | 30        | 76-120 |   |
| Ethylbenzene                | 20.0                     | 19.5                            | 98               | 2        | 30        | 80-120 |   |
| Methylene Chloride          | 20.0                     | 19.9                            | 99               | 1        | 30        | 77-123 |   |
| Styrene                     | 20.0                     | 20.0                            | 100              | 2        | 30        | 80-120 |   |
| Tetrachloroethene           | 20.0                     | 21.8                            | 109              | 7        | 30        | 78-122 |   |
| Toluene                     | 20.0                     | 18.7                            | 94               | 7        | 30        | 80-120 |   |
| trans-1,2-Dichloroethene    | 20.0                     | 19.4                            | 97               | 5        | 30        | 79-120 |   |
| trans-1,3-Dichloropropene   | 20.0                     | 16.6                            | 83               | 4        | 30        | 76-120 |   |
| Trichloroethene             | 20.0                     | 19.0                            | 95               | 4        | 30        | 77-120 |   |
| Vinyl chloride              | 20.0                     | 17.0                            | 85               | 6        | 30        | 62-138 |   |
| Xylenes, Total              | 40.0                     | 37.4                            | 93               | 0        | 30        | 80-120 |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: J76068.D  
 Lab ID: LCSD 460-558952/5 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCSD<br>CONCENTRATION<br>(ug/L) | LCSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|-----------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|---|
|                             |                          |                                 |                  |          | RPD       | REC    |   |
| 1,1,1-Trichloroethane       | 20.0                     | 20.2                            | 101              | 3        | 30        | 75-125 |   |
| 1,1,2,2-Tetrachloroethane   | 20.0                     | 17.1                            | 85               | 3        | 30        | 74-120 |   |
| 1,1,2-Trichloroethane       | 20.0                     | 18.5                            | 92               | 5        | 30        | 78-120 |   |
| 1,1-Dichloroethane          | 20.0                     | 17.8                            | 89               | 3        | 30        | 77-123 |   |
| 1,1-Dichloroethene          | 20.0                     | 20.0                            | 100              | 1        | 30        | 74-123 |   |
| 1,2-Dichloroethane          | 20.0                     | 18.4                            | 92               | 2        | 30        | 76-121 |   |
| 1,2-Dichloropropane         | 20.0                     | 18.2                            | 91               | 4        | 30        | 77-123 |   |
| 2-Butanone (MEK)            | 100                      | 121                             | 121              | 2        | 30        | 64-120 | * |
| 2-Hexanone                  | 100                      | 113                             | 113              | 0        | 30        | 71-125 |   |
| 4-Methyl-2-pentanone (MIBK) | 100                      | 105                             | 105              | 3        | 30        | 78-124 |   |
| Acetone                     | 100                      | 109                             | 109              | 1        | 30        | 39-150 |   |
| Benzene                     | 20.0                     | 19.0                            | 95               | 6        | 30        | 77-121 |   |
| Bromoform                   | 20.0                     | 22.5                            | 113              | 4        | 30        | 53-120 |   |
| Bromomethane                | 20.0                     | 15.4                            | 77               | 5        | 30        | 10-150 |   |
| Carbon disulfide            | 20.0                     | 18.4                            | 92               | 3        | 30        | 69-133 |   |
| Carbon tetrachloride        | 20.0                     | 21.1                            | 106              | 0        | 30        | 70-132 |   |
| Chlorobenzene               | 20.0                     | 20.4                            | 102              | 4        | 30        | 80-120 |   |
| Chlorobromomethane          | 20.0                     | 22.0                            | 110              | 5        | 30        | 77-127 |   |
| Chlorodibromomethane        | 20.0                     | 21.2                            | 106              | 4        | 30        | 73-120 |   |
| Chloroethane                | 20.0                     | 20.2                            | 101              | 1        | 30        | 52-150 |   |
| Chloroform                  | 20.0                     | 19.4                            | 97               | 6        | 30        | 80-120 |   |
| Chloromethane               | 20.0                     | 16.6                            | 83               | 1        | 30        | 56-131 |   |
| cis-1,2-Dichloroethene      | 20.0                     | 19.9                            | 99               | 1        | 30        | 80-120 |   |
| cis-1,3-Dichloropropene     | 20.0                     | 18.3                            | 91               | 6        | 30        | 77-120 |   |
| Dichlorobromomethane        | 20.0                     | 19.4                            | 97               | 5        | 30        | 76-120 |   |
| Ethylbenzene                | 20.0                     | 19.6                            | 98               | 3        | 30        | 80-120 |   |
| Methylene Chloride          | 20.0                     | 18.8                            | 94               | 7        | 30        | 77-123 |   |
| Styrene                     | 20.0                     | 19.6                            | 98               | 6        | 30        | 80-120 |   |
| Tetrachloroethene           | 20.0                     | 23.5                            | 118              | 2        | 30        | 78-122 |   |
| Toluene                     | 20.0                     | 19.1                            | 96               | 2        | 30        | 80-120 |   |
| trans-1,2-Dichloroethene    | 20.0                     | 20.5                            | 103              | 2        | 30        | 79-120 |   |
| trans-1,3-Dichloropropene   | 20.0                     | 16.7                            | 84               | 5        | 30        | 76-120 |   |
| Trichloroethene             | 20.0                     | 19.8                            | 99               | 4        | 30        | 77-120 |   |
| Vinyl chloride              | 20.0                     | 18.7                            | 94               | 3        | 30        | 62-138 |   |
| Xylenes, Total              | 40.0                     | 37.7                            | 94               | 0        | 30        | 80-120 |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: J76068.D  
 Lab ID: LCSD 460-559112/5 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCSD<br>CONCENTRATION<br>(ug/L) | LCSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|-----------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|---|
|                             |                          |                                 |                  |          | RPD       | REC    |   |
| 1,1,1-Trichloroethane       | 20.0                     | 21.5                            | 108              | 6        | 30        | 75-125 |   |
| 1,1,2,2-Tetrachloroethane   | 20.0                     | 18.4                            | 92               | 5        | 30        | 74-120 |   |
| 1,1,2-Trichloroethane       | 20.0                     | 20.6                            | 103              | 8        | 30        | 78-120 |   |
| 1,1-Dichloroethane          | 20.0                     | 19.5                            | 97               | 5        | 30        | 77-123 |   |
| 1,1-Dichloroethene          | 20.0                     | 20.3                            | 101              | 7        | 30        | 74-123 |   |
| 1,2-Dichloroethane          | 20.0                     | 19.8                            | 99               | 3        | 30        | 76-121 |   |
| 1,2-Dichloropropane         | 20.0                     | 19.6                            | 98               | 4        | 30        | 77-123 |   |
| 2-Butanone (MEK)            | 100                      | 121                             | 121              | 5        | 30        | 64-120 | * |
| 2-Hexanone                  | 100                      | 117                             | 117              | 2        | 30        | 71-125 |   |
| 4-Methyl-2-pentanone (MIBK) | 100                      | 111                             | 111              | 0        | 30        | 78-124 |   |
| Acetone                     | 100                      | 115                             | 115              | 4        | 30        | 39-150 |   |
| Benzene                     | 20.0                     | 21.2                            | 106              | 6        | 30        | 77-121 |   |
| Bromoform                   | 20.0                     | 23.7                            | 119              | 5        | 30        | 53-120 |   |
| Bromomethane                | 20.0                     | 12.5                            | 63               | 23       | 30        | 10-150 |   |
| Carbon disulfide            | 20.0                     | 19.3                            | 97               | 8        | 30        | 69-133 |   |
| Carbon tetrachloride        | 20.0                     | 22.0                            | 110              | 11       | 30        | 70-132 |   |
| Chlorobenzene               | 20.0                     | 22.0                            | 110              | 5        | 30        | 80-120 |   |
| Chlorobromomethane          | 20.0                     | 24.0                            | 120              | 4        | 30        | 77-127 |   |
| Chlorodibromomethane        | 20.0                     | 23.1                            | 116              | 3        | 30        | 73-120 |   |
| Chloroethane                | 20.0                     | 20.0                            | 100              | 6        | 30        | 52-150 |   |
| Chloroform                  | 20.0                     | 21.3                            | 107              | 3        | 30        | 80-120 |   |
| Chloromethane               | 20.0                     | 16.4                            | 82               | 7        | 30        | 56-131 |   |
| cis-1,2-Dichloroethene      | 20.0                     | 22.1                            | 110              | 8        | 30        | 80-120 |   |
| cis-1,3-Dichloropropene     | 20.0                     | 20.2                            | 101              | 4        | 30        | 77-120 |   |
| Dichlorobromomethane        | 20.0                     | 21.2                            | 106              | 3        | 30        | 76-120 |   |
| Ethylbenzene                | 20.0                     | 21.6                            | 108              | 9        | 30        | 80-120 |   |
| Methylene Chloride          | 20.0                     | 21.5                            | 107              | 4        | 30        | 77-123 |   |
| Styrene                     | 20.0                     | 22.1                            | 111              | 7        | 30        | 80-120 |   |
| Tetrachloroethene           | 20.0                     | 24.6                            | 123              | 5        | 30        | 78-122 | * |
| Toluene                     | 20.0                     | 20.7                            | 103              | 6        | 30        | 80-120 |   |
| trans-1,2-Dichloroethene    | 20.0                     | 21.3                            | 106              | 4        | 30        | 79-120 |   |
| trans-1,3-Dichloropropene   | 20.0                     | 18.4                            | 92               | 4        | 30        | 76-120 |   |
| Trichloroethene             | 20.0                     | 20.7                            | 104              | 4        | 30        | 77-120 |   |
| Vinyl chloride              | 20.0                     | 17.7                            | 88               | 6        | 30        | 62-138 |   |
| Xylenes, Total              | 40.0                     | 41.5                            | 104              | 9        | 30        | 80-120 |   |

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: J76118.D  
Lab ID: LCSD 460-559235/5 Client ID: \_\_\_\_\_

| COMPOUND                    | SPIKE<br>ADDED<br>(ug/L) | LCSD<br>CONCENTRATION<br>(ug/L) | LCSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|-----------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|---|
|                             |                          |                                 |                  |          | RPD       | REC    |   |
| 1,1,1-Trichloroethane       | 20.0                     | 20.6                            | 103              | 2        | 30        | 75-125 |   |
| 1,1,2,2-Tetrachloroethane   | 20.0                     | 16.9                            | 84               | 1        | 30        | 74-120 |   |
| 1,1,2-Trichloroethane       | 20.0                     | 19.0                            | 95               | 2        | 30        | 78-120 |   |
| 1,1-Dichloroethane          | 20.0                     | 17.7                            | 88               | 6        | 30        | 77-123 |   |
| 1,1-Dichloroethene          | 20.0                     | 19.9                            | 99               | 2        | 30        | 74-123 |   |
| 1,2-Dichloroethane          | 20.0                     | 18.1                            | 91               | 4        | 30        | 76-121 |   |
| 1,2-Dichloropropane         | 20.0                     | 17.7                            | 89               | 4        | 30        | 77-123 |   |
| 2-Butanone (MEK)            | 100                      | 119                             | 119              | 1        | 30        | 64-120 |   |
| 2-Hexanone                  | 100                      | 108                             | 108              | 0        | 30        | 71-125 |   |
| 4-Methyl-2-pentanone (MIBK) | 100                      | 105                             | 105              | 3        | 30        | 78-124 |   |
| Acetone                     | 100                      | 110                             | 110              | 4        | 30        | 39-150 |   |
| Benzene                     | 20.0                     | 19.6                            | 98               | 2        | 30        | 77-121 |   |
| Bromoform                   | 20.0                     | 22.3                            | 112              | 1        | 30        | 53-120 |   |
| Bromomethane                | 20.0                     | 17.1                            | 85               | 12       | 30        | 10-150 |   |
| Carbon disulfide            | 20.0                     | 18.6                            | 93               | 4        | 30        | 69-133 |   |
| Carbon tetrachloride        | 20.0                     | 21.0                            | 105              | 1        | 30        | 70-132 |   |
| Chlorobenzene               | 20.0                     | 20.9                            | 104              | 2        | 30        | 80-120 |   |
| Chlorobromomethane          | 20.0                     | 22.2                            | 111              | 2        | 30        | 77-127 |   |
| Chlorodibromomethane        | 20.0                     | 21.9                            | 110              | 1        | 30        | 73-120 |   |
| Chloroethane                | 20.0                     | 20.4                            | 102              | 4        | 30        | 52-150 |   |
| Chloroform                  | 20.0                     | 19.5                            | 97               | 6        | 30        | 80-120 |   |
| Chloromethane               | 20.0                     | 16.5                            | 82               | 3        | 30        | 56-131 |   |
| cis-1,2-Dichloroethene      | 20.0                     | 19.9                            | 100              | 4        | 30        | 80-120 |   |
| cis-1,3-Dichloropropene     | 20.0                     | 19.3                            | 97               | 2        | 30        | 77-120 |   |
| Dichlorobromomethane        | 20.0                     | 19.5                            | 97               | 3        | 30        | 76-120 |   |
| Ethylbenzene                | 20.0                     | 20.3                            | 101              | 5        | 30        | 80-120 |   |
| Methylene Chloride          | 20.0                     | 20.0                            | 100              | 3        | 30        | 77-123 |   |
| Styrene                     | 20.0                     | 20.1                            | 101              | 1        | 30        | 80-120 |   |
| Tetrachloroethene           | 20.0                     | 23.3                            | 117              | 3        | 30        | 78-122 |   |
| Toluene                     | 20.0                     | 19.3                            | 97               | 1        | 30        | 80-120 |   |
| trans-1,2-Dichloroethene    | 20.0                     | 19.9                            | 100              | 1        | 30        | 79-120 |   |
| trans-1,3-Dichloropropene   | 20.0                     | 17.2                            | 86               | 1        | 30        | 76-120 |   |
| Trichloroethene             | 20.0                     | 20.5                            | 102              | 0        | 30        | 77-120 |   |
| Vinyl chloride              | 20.0                     | 18.2                            | 91               | 3        | 30        | 62-138 |   |
| Xylenes, Total              | 40.0                     | 38.2                            | 95               | 1        | 30        | 80-120 |   |

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: J76042.D Lab Sample ID: MB 460-558837/7  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: CVOAMS8 Date Analyzed: 10/09/2018 22:00  
 GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID  | LAB SAMPLE ID     | LAB<br>FILE ID | DATE ANALYZED    |
|-------------------|-------------------|----------------|------------------|
|                   | LCS 460-558837/3  | J76038.D       | 10/09/2018 20:13 |
|                   | LCSD 460-558837/4 | J76039.D       | 10/09/2018 20:40 |
| EB1 092618        | 460-165769-4      | J76044.D       | 10/09/2018 22:54 |
| FB1 09262018      | 460-165769-5      | J76045.D       | 10/09/2018 23:21 |
| EB2 09272018      | 460-165769-8      | J76046.D       | 10/09/2018 23:47 |
| FB2 09272018      | 460-165769-9      | J76047.D       | 10/10/2018 00:14 |
| EB3 09282018      | 460-165769-12     | J76048.D       | 10/10/2018 00:41 |
| FB3 09282018      | 460-165769-13     | J76049.D       | 10/10/2018 01:08 |
| TB1 09262018      | 460-165769-14     | J76050.D       | 10/10/2018 01:35 |
| FSMW-13A 09262018 | 460-165769-3      | J76058.D       | 10/10/2018 05:10 |
| FSMW-1A 09272018  | 460-165769-7      | J76060.D       | 10/10/2018 06:03 |
| FSMW-4A 09282018  | 460-165769-10     | J76061.D       | 10/10/2018 06:30 |

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab File ID: J76073.D Lab Sample ID: MB 460-558952/10  
Matrix: Water Heated Purge: (Y/N) N  
Instrument ID: CVOAMS8 Date Analyzed: 10/10/2018 11:25  
GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID  | LAB SAMPLE ID     | LAB<br>FILE ID | DATE ANALYZED    |
|-------------------|-------------------|----------------|------------------|
|                   | LCS 460-558952/4  | J76067.D       | 10/10/2018 08:44 |
|                   | LCSD 460-558952/5 | J76068.D       | 10/10/2018 09:11 |
| FSMW-14B 09262018 | 460-165769-2      | J76078.D       | 10/10/2018 13:40 |
| FSMW-14A 09262018 | 460-165769-1      | J76079.D       | 10/10/2018 14:07 |

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab File ID: J76071.D Lab Sample ID: MB 460-559112/8  
Matrix: Water Heated Purge: (Y/N) N  
Instrument ID: CVOAMS8 Date Analyzed: 10/10/2018 21:57  
GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID     | LAB<br>FILE ID | DATE ANALYZED    |
|------------------|-------------------|----------------|------------------|
|                  | LCS 460-559112/4  | J76067.D       | 10/10/2018 20:08 |
|                  | LCSD 460-559112/5 | J76068.D       | 10/10/2018 20:35 |
| FSMW-2B 09282018 | 460-165769-11     | J76100.D       | 10/11/2018 01:06 |



FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab File ID: J76121.D Lab Sample ID: MB 460-559235/8  
Matrix: Water Heated Purge: (Y/N) N  
Instrument ID: CVOAMS8 Date Analyzed: 10/11/2018 10:22  
GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID     | LAB<br>FILE ID | DATE ANALYZED    |
|------------------|-------------------|----------------|------------------|
|                  | LCS 460-559235/4  | J76117.D       | 10/11/2018 08:35 |
|                  | LCSD 460-559235/5 | J76118.D       | 10/11/2018 09:02 |
| FSMW-8A 09272018 | 460-165769-6      | J76124.D       | 10/11/2018 11:49 |

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: J75064.D BFB Injection Date: 09/20/2018  
 Instrument ID: CVOAMS8 BFB Injection Time: 11:34  
 Analysis Batch No.: 553713

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 19.6                 |
| 75  | 30.0 - 60.0 % of mass 95           | 45.2                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 7.5                  |
| 173 | Less than 2.0 % of mass 174        | 0.7 (0.8) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 85.0                 |
| 175 | 5.0 - 9.0 % of mass 174            | 6.3 (7.4) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 84.0 (98.9) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 5.5 (6.6) 2          |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID       | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|---------------------|-------------|---------------|---------------|
|                  | STD7 460-553713/3   | J75066.D    | 09/20/2018    | 12:25         |
|                  | STD5 460-553713/5   | J75068.D    | 09/20/2018    | 13:19         |
|                  | STD20 460-553713/6  | J75069.D    | 09/20/2018    | 13:46         |
|                  | STD50 460-553713/7  | J75070.D    | 09/20/2018    | 14:13         |
|                  | STD200 460-553713/8 | J75071.D    | 09/20/2018    | 14:39         |
|                  | STD500 460-553713/9 | J75072.D    | 09/20/2018    | 15:06         |
|                  | STD1 460-553713/15  | J75078.D    | 09/20/2018    | 21:24         |

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab File ID: J76036.D BFB Injection Date: 10/09/2018  
Instrument ID: CVOAMS8 BFB Injection Time: 19:13  
Analysis Batch No.: 558837

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 17.5                 |
| 75  | 30.0 - 60.0 % of mass 95           | 45.6                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 7.4                  |
| 173 | Less than 2.0 % of mass 174        | 1.3 (1.3) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 100.4                |
| 175 | 5.0 - 9.0 % of mass 174            | 7.1 (7.0) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 96.4 (95.9) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 6.5 (6.8) 2          |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID  | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-------------------|--------------------|-------------|---------------|---------------|
|                   | CCVIS 460-558837/2 | J76037.D    | 10/09/2018    | 19:38         |
|                   | LCS 460-558837/3   | J76038.D    | 10/09/2018    | 20:13         |
|                   | LCSD 460-558837/4  | J76039.D    | 10/09/2018    | 20:40         |
|                   | MB 460-558837/7    | J76042.D    | 10/09/2018    | 22:00         |
| EB1 092618        | 460-165769-4       | J76044.D    | 10/09/2018    | 22:54         |
| FB1 09262018      | 460-165769-5       | J76045.D    | 10/09/2018    | 23:21         |
| EB2 09272018      | 460-165769-8       | J76046.D    | 10/09/2018    | 23:47         |
| FB2 09272018      | 460-165769-9       | J76047.D    | 10/10/2018    | 00:14         |
| EB3 09282018      | 460-165769-12      | J76048.D    | 10/10/2018    | 00:41         |
| FB3 09282018      | 460-165769-13      | J76049.D    | 10/10/2018    | 01:08         |
| TB1 09262018      | 460-165769-14      | J76050.D    | 10/10/2018    | 01:35         |
| FSMW-13A 09262018 | 460-165769-3       | J76058.D    | 10/10/2018    | 05:10         |
| FSMW-1A 09272018  | 460-165769-7       | J76060.D    | 10/10/2018    | 06:03         |
| FSMW-4A 09282018  | 460-165769-10      | J76061.D    | 10/10/2018    | 06:30         |

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: J76064.D BFB Injection Date: 10/10/2018  
 Instrument ID: CVOAMS8 BFB Injection Time: 07:26  
 Analysis Batch No.: 558952

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 16.2                 |
| 75  | 30.0 - 60.0 % of mass 95           | 45.2                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.4                  |
| 173 | Less than 2.0 % of mass 174        | 1.5 (1.6) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 96.1                 |
| 175 | 5.0 - 9.0 % of mass 174            | 7.9 (8.2) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 93.3 (97.0) 1        |
| 177 | 5.0 - 9.0 % of mass 176            | 7.1 (7.6) 2          |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID  | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-------------------|--------------------|-------------|---------------|---------------|
|                   | CCVIS 460-558952/3 | J76066.D    | 10/10/2018    | 08:17         |
|                   | LCS 460-558952/4   | J76067.D    | 10/10/2018    | 08:44         |
|                   | LCSD 460-558952/5  | J76068.D    | 10/10/2018    | 09:11         |
|                   | MB 460-558952/10   | J76073.D    | 10/10/2018    | 11:25         |
| FSMW-14B 09262018 | 460-165769-2       | J76078.D    | 10/10/2018    | 13:40         |
| FSMW-14A 09262018 | 460-165769-1       | J76079.D    | 10/10/2018    | 14:07         |

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: J76087.D BFB Injection Date: 10/10/2018  
 Instrument ID: CVOAMS8 BFB Injection Time: 18:29  
 Analysis Batch No.: 559112

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |          |
|-----|------------------------------------|----------------------|----------|
| 50  | 15.0 - 40.0 % of mass 95           | 19.8                 |          |
| 75  | 30.0 - 60.0 % of mass 95           | 42.5                 |          |
| 95  | Base Peak, 100% relative abundance | 100.0                |          |
| 96  | 5.0 - 9.0 % of mass 95             | 7.5                  |          |
| 173 | Less than 2.0 % of mass 174        | 0.0                  | (0.0) 1  |
| 174 | 50.0 - 120.00 % of mass 95         | 74.4                 |          |
| 175 | 5.0 - 9.0 % of mass 174            | 5.1                  | (6.9) 1  |
| 176 | 95.0 - 101.0 % of mass 174         | 71.7                 | (96.3) 1 |
| 177 | 5.0 - 9.0 % of mass 176            | 5.4                  | (7.6) 2  |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 460-559112/3 | J76066.D    | 10/10/2018    | 19:33         |
|                  | LCS 460-559112/4   | J76067.D    | 10/10/2018    | 20:08         |
|                  | LCSD 460-559112/5  | J76068.D    | 10/10/2018    | 20:35         |
|                  | MB 460-559112/8    | J76071.D    | 10/10/2018    | 21:57         |
| FSMW-2B 09282018 | 460-165769-11      | J76100.D    | 10/11/2018    | 01:06         |

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: J76114.D BFB Injection Date: 10/11/2018  
 Instrument ID: CVOAMS8 BFB Injection Time: 07:13  
 Analysis Batch No.: 559235

| M/E | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 15.0 - 40.0 % of mass 95           | 15.7                 |
| 75  | 30.0 - 60.0 % of mass 95           | 41.8                 |
| 95  | Base Peak, 100% relative abundance | 100.0                |
| 96  | 5.0 - 9.0 % of mass 95             | 6.9                  |
| 173 | Less than 2.0 % of mass 174        | 1.6 (1.5) 1          |
| 174 | 50.0 - 120.00 % of mass 95         | 102.1                |
| 175 | 5.0 - 9.0 % of mass 174            | 8.2 (8.0) 1          |
| 176 | 95.0 - 101.0 % of mass 174         | 100.2 (98.1) 1       |
| 177 | 5.0 - 9.0 % of mass 176            | 6.6 (6.6) 2          |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID      | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
|                  | CCVIS 460-559235/3 | J76116.D    | 10/11/2018    | 08:03         |
|                  | LCS 460-559235/4   | J76117.D    | 10/11/2018    | 08:35         |
|                  | LCSD 460-559235/5  | J76118.D    | 10/11/2018    | 09:02         |
|                  | MB 460-559235/8    | J76121.D    | 10/11/2018    | 10:22         |
| FSMW-8A 09272018 | 460-165769-6       | J76124.D    | 10/11/2018    | 11:49         |

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-558837/2 Date Analyzed: 10/09/2018 19:38  
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)  
 Lab File ID (Standard): J76037.D Heated Purge: (Y/N) N  
 Calibration ID: 71237

|                   | TBA <sub>d</sub> 9 |        | BUT    |        | FB     |        |      |
|-------------------|--------------------|--------|--------|--------|--------|--------|------|
|                   | AREA #             | RT #   | AREA # | RT #   | AREA # | RT #   |      |
| 12/24 HOUR STD    | 183993             | 2.73   | 235810 | 3.73   | 435239 | 4.76   |      |
| UPPER LIMIT       | 367986             | 3.23   | 471620 | 4.23   | 870478 | 5.26   |      |
| LOWER LIMIT       | 91997              | 2.23   | 117905 | 3.23   | 217620 | 4.26   |      |
| LAB SAMPLE ID     | CLIENT SAMPLE ID   |        |        |        |        |        |      |
| LCS 460-558837/3  |                    | 188548 | 2.73   | 242231 | 3.73   | 438426 | 4.76 |
| LCSD 460-558837/4 |                    | 188770 | 2.73   | 242258 | 3.73   | 440937 | 4.76 |
| MB 460-558837/7   |                    | 184574 | 2.72   | 244463 | 3.73   | 410253 | 4.77 |
| 460-165769-4      | EB1 092618         | 183544 | 2.72   | 233918 | 3.73   | 402713 | 4.77 |
| 460-165769-5      | FB1 09262018       | 188598 | 2.72   | 244687 | 3.73   | 396956 | 4.76 |
| 460-165769-8      | EB2 09272018       | 184412 | 2.72   | 240225 | 3.73   | 398834 | 4.77 |
| 460-165769-9      | FB2 09272018       | 188600 | 2.72   | 244690 | 3.73   | 389834 | 4.77 |
| 460-165769-12     | EB3 09282018       | 177899 | 2.72   | 237218 | 3.73   | 395609 | 4.77 |
| 460-165769-13     | FB3 09282018       | 187056 | 2.72   | 240207 | 3.73   | 391584 | 4.78 |
| 460-165769-14     | TB1 09262018       | 185460 | 2.72   | 238986 | 3.73   | 390627 | 4.77 |
| 460-165769-3      | FSMW-13A 09262018  | 183630 | 2.72   | 237522 | 3.73   | 380147 | 4.78 |
| 460-165769-7      | FSMW-1A 09272018   | 173429 | 2.73   | 222795 | 3.73   | 386510 | 4.78 |
| 460-165769-10     | FSMW-4A 09282018   | 178446 | 2.73   | 233458 | 3.73   | 380830 | 4.78 |

TBA<sub>d</sub>9 = TBA-d<sub>9</sub> (IS)  
 BUT = 2-Butanone-d<sub>5</sub>  
 FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-558837/2 Date Analyzed: 10/09/2018 19:38  
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)  
 Lab File ID (Standard): J76037.D Heated Purge: (Y/N) N  
 Calibration ID: 71237

|                   |                   | DXE    |      | CBNZd5 |      | DCBd4  |       |
|-------------------|-------------------|--------|------|--------|------|--------|-------|
|                   |                   | AREA # | RT # | AREA # | RT # | AREA # | RT #  |
| 12/24 HOUR STD    |                   | 23980  | 5.47 | 353705 | 8.18 | 223999 | 10.62 |
| UPPER LIMIT       |                   | 47960  | 5.97 | 707410 | 8.68 | 447998 | 11.12 |
| LOWER LIMIT       |                   | 11990  | 4.97 | 176853 | 7.68 | 112000 | 10.12 |
| LAB SAMPLE ID     | CLIENT SAMPLE ID  |        |      |        |      |        |       |
| LCS 460-558837/3  |                   | 25060  | 5.47 | 348639 | 8.18 | 219991 | 10.62 |
| LCSD 460-558837/4 |                   | 25705  | 5.47 | 356203 | 8.18 | 226016 | 10.62 |
| MB 460-558837/7   |                   | 19642  | 5.47 | 314440 | 8.18 | 173608 | 10.62 |
| 460-165769-4      | EB1 092618        | 18964  | 5.46 | 295784 | 8.18 | 168528 | 10.62 |
| 460-165769-5      | FB1 09262018      | 18511  | 5.47 | 299079 | 8.18 | 170171 | 10.62 |
| 460-165769-8      | EB2 09272018      | 18015  | 5.47 | 314709 | 8.18 | 169831 | 10.62 |
| 460-165769-9      | FB2 09272018      | 17980  | 5.47 | 288823 | 8.18 | 165529 | 10.62 |
| 460-165769-12     | EB3 09282018      | 17178  | 5.47 | 290580 | 8.18 | 166414 | 10.62 |
| 460-165769-13     | FB3 09282018      | 17837  | 5.47 | 286929 | 8.18 | 162295 | 10.62 |
| 460-165769-14     | TB1 09262018      | 17013  | 5.47 | 292581 | 8.18 | 170276 | 10.62 |
| 460-165769-3      | FSMW-13A 09262018 | 18377  | 5.47 | 288776 | 8.18 | 161050 | 10.62 |
| 460-165769-7      | FSMW-1A 09272018  | 17074  | 5.47 | 291904 | 8.18 | 166026 | 10.62 |
| 460-165769-10     | FSMW-4A 09282018  | 16389  | 5.47 | 291798 | 8.18 | 165502 | 10.62 |

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits



FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-558952/3 Date Analyzed: 10/10/2018 08:17  
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)  
 Lab File ID (Standard): J76066.D Heated Purge: (Y/N) N  
 Calibration ID: 71237

|                   |                   | TBA <sub>d</sub> 9 |      | BUT    |      | FB     |      |
|-------------------|-------------------|--------------------|------|--------|------|--------|------|
|                   |                   | AREA #             | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD    |                   | 180795             | 2.73 | 235341 | 3.73 | 424044 | 4.78 |
| UPPER LIMIT       |                   | 361590             | 3.23 | 470682 | 4.23 | 848088 | 5.28 |
| LOWER LIMIT       |                   | 90398              | 2.23 | 117671 | 3.23 | 212022 | 4.28 |
| LAB SAMPLE ID     |                   | CLIENT SAMPLE ID   |      |        |      |        |      |
| LCS 460-558952/4  |                   | 188898             | 2.73 | 237878 | 3.74 | 433574 | 4.78 |
| LCSD 460-558952/5 |                   | 195638             | 2.73 | 244204 | 3.73 | 440767 | 4.78 |
| MB 460-558952/10  |                   | 186920             | 2.73 | 237886 | 3.74 | 397328 | 4.78 |
| 460-165769-2      | FSMW-14B 09262018 | 196846             | 2.73 | 243276 | 3.74 | 390984 | 4.78 |
| 460-165769-1      | FSMW-14A 09262018 | 192445             | 2.74 | 238371 | 3.74 | 382764 | 4.78 |

TBA<sub>d</sub>9 = TBA-d<sub>9</sub> (IS)  
 BUT = 2-Butanone-d<sub>5</sub>  
 FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-558952/3 Date Analyzed: 10/10/2018 08:17  
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)  
 Lab File ID (Standard): J76066.D Heated Purge: (Y/N) N  
 Calibration ID: 71237

|                   |  | DXE               |       | CBNZd5 |        | DCBd4  |        |       |
|-------------------|--|-------------------|-------|--------|--------|--------|--------|-------|
|                   |  | AREA #            | RT #  | AREA # | RT #   | AREA # | RT #   |       |
| 12/24 HOUR STD    |  | 24076             | 5.47  | 346016 | 8.18   | 221456 | 10.62  |       |
| UPPER LIMIT       |  | 48152             | 5.97  | 692032 | 8.68   | 442912 | 11.12  |       |
| LOWER LIMIT       |  | 12038             | 4.97  | 173008 | 7.68   | 110728 | 10.12  |       |
| LAB SAMPLE ID     |  | CLIENT SAMPLE ID  |       |        |        |        |        |       |
| LCS 460-558952/4  |  | 24915             | 5.47  | 348184 | 8.18   | 220030 | 10.62  |       |
| LCSD 460-558952/5 |  | 26593             | 5.47  | 355921 | 8.18   | 224053 | 10.62  |       |
| MB 460-558952/10  |  | 19787             | 5.47  | 298435 | 8.18   | 173325 | 10.62  |       |
| 460-165769-2      |  | FSMW-14B 09262018 | 17603 | 5.48   | 297787 | 8.19   | 163884 | 10.62 |
| 460-165769-1      |  | FSMW-14A 09262018 | 18146 | 5.48   | 294449 | 8.19   | 166470 | 10.62 |

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-559112/3 Date Analyzed: 10/10/2018 19:33  
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)  
 Lab File ID (Standard): J76066.D Heated Purge: (Y/N) N  
 Calibration ID: 71237

|                   | TBA <sub>d</sub> 9 |        | BUT    |        | FB     |        |      |
|-------------------|--------------------|--------|--------|--------|--------|--------|------|
|                   | AREA #             | RT #   | AREA # | RT #   | AREA # | RT #   |      |
| 12/24 HOUR STD    | 178636             | 2.74   | 236403 | 3.74   | 423309 | 4.78   |      |
| UPPER LIMIT       | 357272             | 3.24   | 472806 | 4.24   | 846618 | 5.28   |      |
| LOWER LIMIT       | 89318              | 2.24   | 118202 | 3.24   | 211655 | 4.28   |      |
| LAB SAMPLE ID     | CLIENT SAMPLE ID   |        |        |        |        |        |      |
| LCS 460-559112/4  |                    | 178246 | 2.74   | 225587 | 3.74   | 434489 | 4.78 |
| LCSD 460-559112/5 |                    | 193623 | 2.73   | 241867 | 3.74   | 436826 | 4.78 |
| MB 460-559112/8   |                    | 189214 | 2.73   | 236405 | 3.74   | 403447 | 4.79 |
| 460-165769-11     | FSMW-2B 09282018   | 183010 | 2.73   | 236956 | 3.74   | 383978 | 4.79 |

TBA<sub>d</sub>9 = TBA-d<sub>9</sub> (IS)  
 BUT = 2-Butanone-d<sub>5</sub>  
 FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-559112/3 Date Analyzed: 10/10/2018 19:33  
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)  
 Lab File ID (Standard): J76066.D Heated Purge: (Y/N) N  
 Calibration ID: 71237

|                   | DXE              |       | CBNZd5 |        | DCBd4  |        |       |
|-------------------|------------------|-------|--------|--------|--------|--------|-------|
|                   | AREA #           | RT #  | AREA # | RT #   | AREA # | RT #   |       |
| 12/24 HOUR STD    | 24244            | 5.49  | 348981 | 8.19   | 215993 | 10.62  |       |
| UPPER LIMIT       | 48488            | 5.99  | 697962 | 8.69   | 431986 | 11.12  |       |
| LOWER LIMIT       | 12122            | 4.99  | 174491 | 7.69   | 107997 | 10.12  |       |
| LAB SAMPLE ID     | CLIENT SAMPLE ID |       |        |        |        |        |       |
| LCS 460-559112/4  |                  | 24168 | 5.48   | 355566 | 8.19   | 222130 | 10.63 |
| LCSD 460-559112/5 |                  | 26418 | 5.49   | 352925 | 8.19   | 219203 | 10.63 |
| MB 460-559112/8   |                  | 19114 | 5.48   | 301395 | 8.19   | 176164 | 10.63 |
| 460-165769-11     | FSMW-2B 09282018 | 16722 | 5.48   | 287984 | 8.19   | 166194 | 10.63 |

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-559235/3 Date Analyzed: 10/11/2018 08:03  
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)  
 Lab File ID (Standard): J76116.D Heated Purge: (Y/N) N  
 Calibration ID: 71237

|                   | TBA <sub>d</sub> 9 |        | BUT    |        | FB     |        |      |
|-------------------|--------------------|--------|--------|--------|--------|--------|------|
|                   | AREA #             | RT #   | AREA # | RT #   | AREA # | RT #   |      |
| 12/24 HOUR STD    | 191510             | 2.74   | 251153 | 3.75   | 418960 | 4.79   |      |
| UPPER LIMIT       | 383020             | 3.24   | 502306 | 4.25   | 837920 | 5.29   |      |
| LOWER LIMIT       | 95755              | 2.24   | 125577 | 3.25   | 209480 | 4.29   |      |
| LAB SAMPLE ID     | CLIENT SAMPLE ID   |        |        |        |        |        |      |
| LCS 460-559235/4  |                    | 191323 | 2.74   | 245550 | 3.75   | 431202 | 4.79 |
| LCSD 460-559235/5 |                    | 194489 | 2.74   | 247852 | 3.75   | 439304 | 4.79 |
| MB 460-559235/8   |                    | 185680 | 2.74   | 240389 | 3.75   | 396175 | 4.79 |
| 460-165769-6      | FSMW-8A 09272018   | 197825 | 2.74   | 253487 | 3.75   | 383447 | 4.79 |

TBA<sub>d</sub>9 = TBA-d<sub>9</sub> (IS)  
 BUT = 2-Butanone-d<sub>5</sub>  
 FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-559235/3 Date Analyzed: 10/11/2018 08:03  
 Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm)  
 Lab File ID (Standard): J76116.D Heated Purge: (Y/N) N  
 Calibration ID: 71237

|                   | DXE              |       | CBNZd5 |        | DCBd4  |        |       |
|-------------------|------------------|-------|--------|--------|--------|--------|-------|
|                   | AREA #           | RT #  | AREA # | RT #   | AREA # | RT #   |       |
| 12/24 HOUR STD    | 23914            | 5.48  | 341381 | 8.20   | 219058 | 10.63  |       |
| UPPER LIMIT       | 47828            | 5.98  | 682762 | 8.70   | 438116 | 11.13  |       |
| LOWER LIMIT       | 11957            | 4.98  | 170691 | 7.70   | 109529 | 10.13  |       |
| LAB SAMPLE ID     | CLIENT SAMPLE ID |       |        |        |        |        |       |
| LCS 460-559235/4  |                  | 24759 | 5.49   | 347340 | 8.20   | 216734 | 10.63 |
| LCSD 460-559235/5 |                  | 26592 | 5.50   | 346194 | 8.20   | 220966 | 10.64 |
| MB 460-559235/8   |                  | 18105 | 5.49   | 296824 | 8.20   | 174206 | 10.64 |
| 460-165769-6      | FSMW-8A 09272018 | 17083 | 5.50   | 294661 | 8.20   | 169281 | 10.63 |

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit =  $\pm$  0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: FSMW-14A 09262018 Lab Sample ID: 460-165769-1

Matrix: Water Lab File ID: J76079.D

Analysis Method: 8260C Date Collected: 09/26/2018 11:05

Sample wt/vol: 5(mL) Date Analyzed: 10/10/2018 14:07

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 558952 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q   | RL  | MDL |
|------------|-----------------------------|--------|-----|-----|-----|
| 71-55-6    | 1,1,1-Trichloroethane       | 4.8    | U   | 20  | 4.8 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 7.3    | U   | 20  | 7.3 |
| 79-00-5    | 1,1,2-Trichloroethane       | 8.7    | U   | 20  | 8.7 |
| 75-34-3    | 1,1-Dichloroethane          | 5.3    | U   | 20  | 5.3 |
| 75-35-4    | 1,1-Dichloroethene          | 2.3    | U   | 20  | 2.3 |
| 107-06-2   | 1,2-Dichloroethane          | 8.6    | U   | 20  | 8.6 |
| 78-87-5    | 1,2-Dichloropropane         | 7.1    | U   | 20  | 7.1 |
| 78-93-3    | 2-Butanone (MEK)            | 37     | U * | 100 | 37  |
| 591-78-6   | 2-Hexanone                  | 58     | U   | 100 | 58  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 55     | U   | 100 | 55  |
| 67-64-1    | Acetone                     | 100    | U   | 100 | 100 |
| 71-43-2    | Benzene                     | 8.6    | U   | 20  | 8.6 |
| 75-25-2    | Bromoform                   | 11     | U   | 20  | 11  |
| 74-83-9    | Bromomethane                | 20     | U   | 20  | 20  |
| 75-15-0    | Carbon disulfide            | 3.1    | U   | 20  | 3.1 |
| 56-23-5    | Carbon tetrachloride        | 4.2    | U   | 20  | 4.2 |
| 108-90-7   | Chlorobenzene               | 7.5    | U   | 20  | 7.5 |
| 74-97-5    | Chlorobromomethane          | 8.2    | U   | 20  | 8.2 |
| 75-00-3    | Chloroethane                | 6.4    | U   | 20  | 6.4 |
| 67-66-3    | Chloroform                  | 6.5    | U   | 20  | 6.5 |
| 74-87-3    | Chloromethane               | 2.9    | U   | 20  | 2.9 |
| 156-59-2   | cis-1,2-Dichloroethene      | 4.4    | U   | 20  | 4.4 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 9.1    | U   | 20  | 9.1 |
| 100-41-4   | Ethylbenzene                | 6.0    | U   | 20  | 6.0 |
| 75-09-2    | Methylene Chloride          | 6.3    | U   | 20  | 6.3 |
| 100-42-5   | Styrene                     | 8.3    | U   | 20  | 8.3 |
| 127-18-4   | Tetrachloroethene           | 3000   | B   | 20  | 5.0 |
| 108-88-3   | Toluene                     | 7.6    | U   | 20  | 7.6 |
| 156-60-5   | trans-1,2-Dichloroethene    | 4.7    | U   | 20  | 4.7 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 9.7    | U   | 20  | 9.7 |
| 79-01-6    | Trichloroethene             | 42     |     | 20  | 6.3 |
| 75-01-4    | Vinyl chloride              | 3.4    | U   | 20  | 3.4 |
| 1330-20-7  | Xylenes, Total              | 13     | U   | 40  | 13  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FSMW-14A 09262018 Lab Sample ID: 460-165769-1  
Matrix: Water Lab File ID: J76079.D  
Analysis Method: 8260C Date Collected: 09/26/2018 11:05  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 14:07  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558952 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 95   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 109  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 91   |   | 80-120 |



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76079.D  
 Lims ID: 460-165769-B-1  
 Client ID: FSMW-14A 09262018  
 Sample Type: Client  
 Inject. Date: 10-Oct-2018 14:07:30 ALS Bottle#: 15 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 20.0000  
 Sample Info: 460-165769-B-1  
 Misc. Info.: 460-0080037-016  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 10:08:32 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: maheseep

Date: 11-Oct-2018 10:04:15

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.735        | 2.732            | 0.003            | 0  | 192445   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.739        | 3.725            | 0.014            | 0  | 238371   | 250.0             |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.184        | 4.182            | 0.002            | 97 | 112646   | 54.7              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.516        | 4.513            | 0.003            | 0  | 108286   | 48.1              |       |
| * 62 Fluorobenzene               | 96  | 4.778        | 4.776            | 0.002            | 99 | 382764   | 50.0              |       |
| 64 Trichloroethene               | 95  | 5.121        | 5.118            | 0.003            | 94 | 4691     | 2.08              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.475        | 5.472            | 0.003            | 0  | 18146    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.411        | 6.408            | 0.003            | 99 | 317985   | 45.3              |       |
| 84 Tetrachloroethene             | 166 | 7.084        | 7.082            | 0.002            | 98 | 333757   | 148.3             |       |
| * 90 Chlorobenzene-d5            | 117 | 8.192        | 8.178            | 0.014            | 83 | 294449   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.653        | 9.651            | 0.002            | 98 | 105345   | 47.5              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.624       | 10.621           | 0.003            | 94 | 166470   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80037.b\\J76079.D

Injection Date: 10-Oct-2018 14:07:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-B-1

Lab Sample ID: 460-165769-1

Worklist Smp#: 16

Client ID: FSMW-14A 09262018

Purge Vol: 5.000 mL

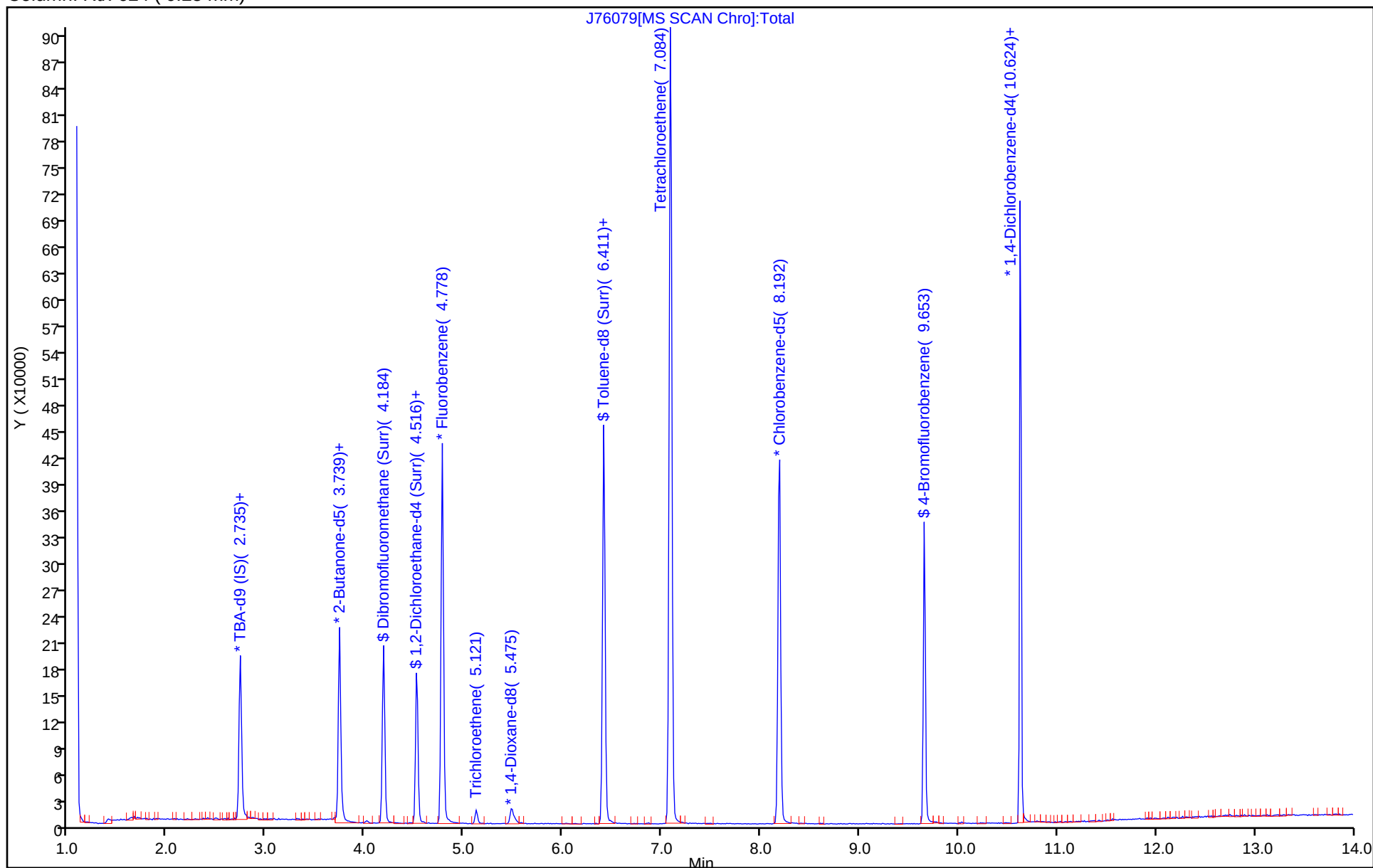
Dil. Factor: 20.0000

ALS Bottle#: 15

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80037.b\\J76079.D

Injection Date: 10-Oct-2018 14:07:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-B-1

Lab Sample ID: 460-165769-1

Client ID: FSMW-14A 09262018

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

16

Purge Vol: 5.000 mL

Dil. Factor:

20.0000

Method: 8260\_W8

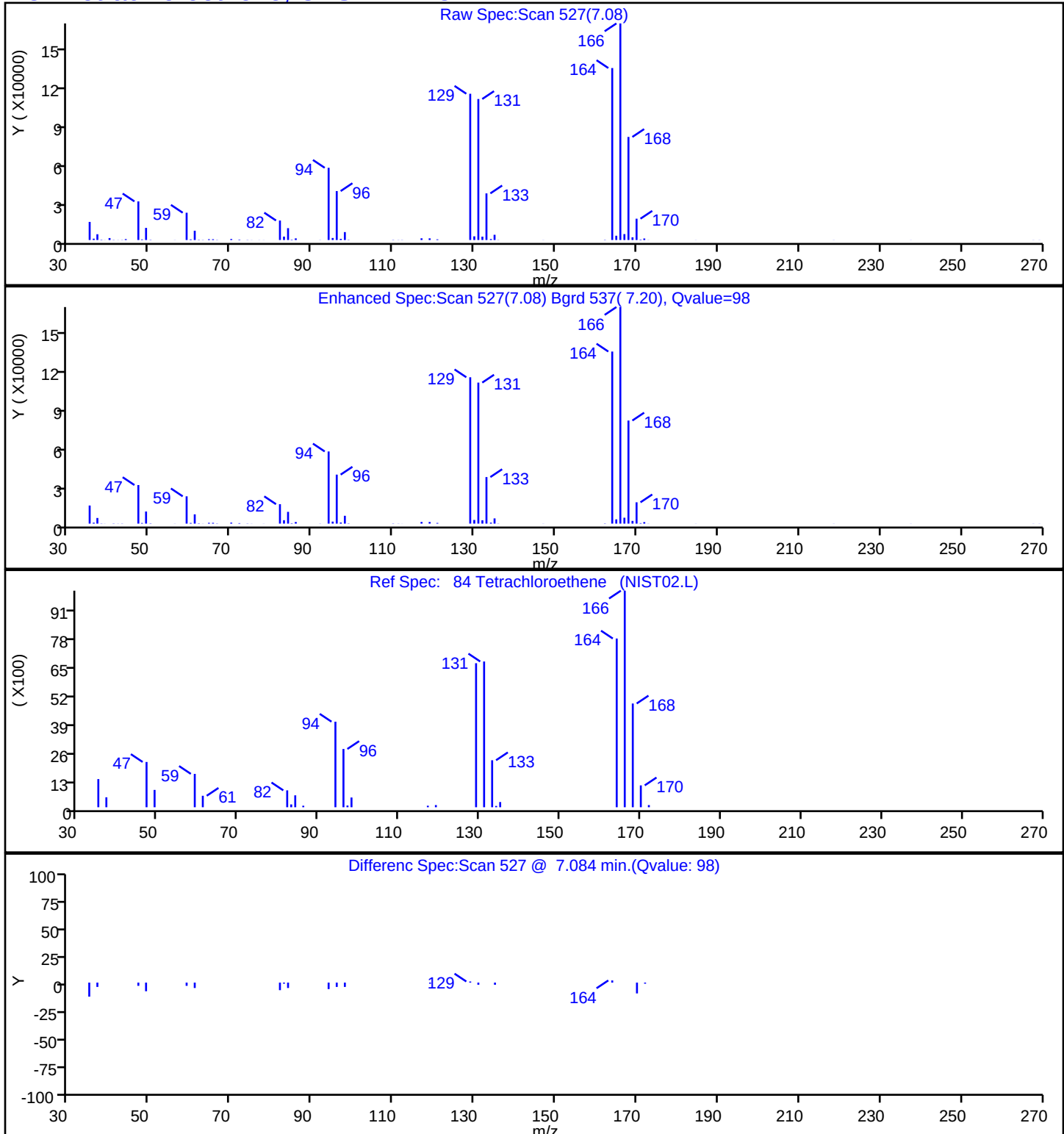
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**84 Tetrachloroethene, CAS: 127-18-4**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76079.D

Injection Date: 10-Oct-2018 14:07:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-B-1

Lab Sample ID: 460-165769-1

Client ID: FSMW-14A 09262018

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

16

Purge Vol: 5.000 mL

Dil. Factor:

20.0000

Method: 8260\_W8

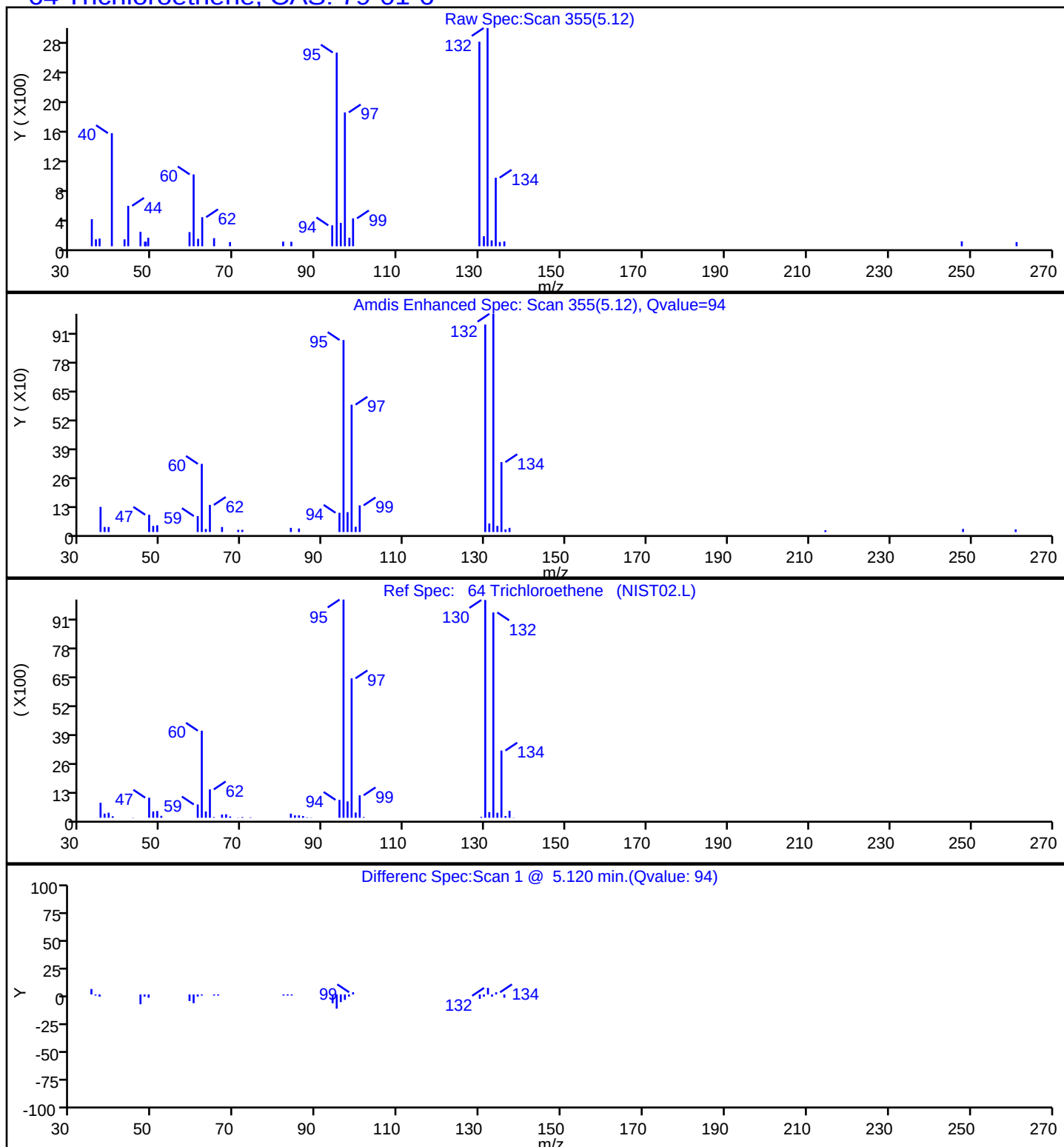
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**64 Trichloroethene, CAS: 79-01-6**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76079.D

Injection Date: 10-Oct-2018 14:07:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-B-1

Lab Sample ID: 460-165769-1

Client ID: FSMW-14A 09262018

Operator ID:

ALS Bottle#:

15

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

Method: 8260\_W8

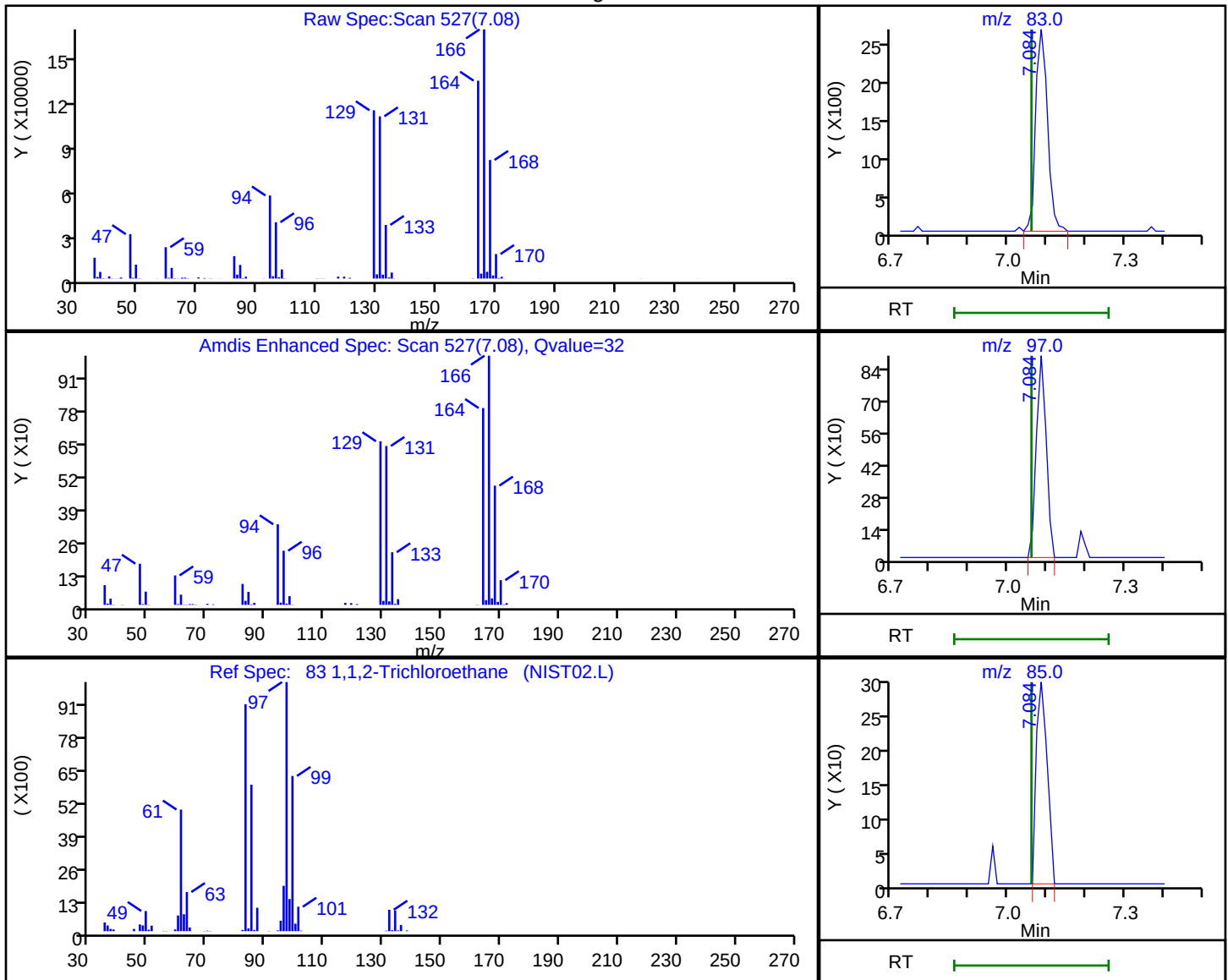
Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector: MS SCAN

## 83 1,1,2-Trichloroethane, CAS: 79-00-5

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.08 | 83.00 | 5613     | 2.857671 |
| 7.08 | 97.00 | 1595     |          |
| 7.08 | 85.00 | 586      |          |

Reviewer: maheseep, 11-Oct-2018 10:03:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: FSMW-14B 09262018 Lab Sample ID: 460-165769-2

Matrix: Water Lab File ID: J76078.D

Analysis Method: 8260C Date Collected: 09/26/2018 13:25

Sample wt/vol: 5(mL) Date Analyzed: 10/10/2018 13:40

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 5

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 558952 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q   | RL  | MDL  |
|------------|-----------------------------|--------|-----|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 1.2    | U   | 5.0 | 1.2  |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1.8    | U   | 5.0 | 1.8  |
| 79-00-5    | 1,1,2-Trichloroethane       | 2.2    | U   | 5.0 | 2.2  |
| 75-34-3    | 1,1-Dichloroethane          | 1.3    | U   | 5.0 | 1.3  |
| 75-35-4    | 1,1-Dichloroethene          | 0.59   | U   | 5.0 | 0.59 |
| 107-06-2   | 1,2-Dichloroethane          | 2.2    | U   | 5.0 | 2.2  |
| 78-87-5    | 1,2-Dichloropropane         | 1.8    | U   | 5.0 | 1.8  |
| 78-93-3    | 2-Butanone (MEK)            | 9.3    | U * | 25  | 9.3  |
| 591-78-6   | 2-Hexanone                  | 15     | U   | 25  | 15   |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 14     | U   | 25  | 14   |
| 67-64-1    | Acetone                     | 25     | U   | 25  | 25   |
| 71-43-2    | Benzene                     | 2.1    | U   | 5.0 | 2.1  |
| 75-25-2    | Bromoform                   | 2.7    | U   | 5.0 | 2.7  |
| 74-83-9    | Bromomethane                | 5.0    | U   | 5.0 | 5.0  |
| 75-15-0    | Carbon disulfide            | 0.78   | U   | 5.0 | 0.78 |
| 56-23-5    | Carbon tetrachloride        | 1.0    | U   | 5.0 | 1.0  |
| 108-90-7   | Chlorobenzene               | 1.9    | U   | 5.0 | 1.9  |
| 74-97-5    | Chlorobromomethane          | 2.1    | U   | 5.0 | 2.1  |
| 75-00-3    | Chloroethane                | 1.6    | U   | 5.0 | 1.6  |
| 67-66-3    | Chloroform                  | 1.6    | U   | 5.0 | 1.6  |
| 74-87-3    | Chloromethane               | 0.72   | U   | 5.0 | 0.72 |
| 156-59-2   | cis-1,2-Dichloroethene      | 6.5    |     | 5.0 | 1.1  |
| 10061-01-5 | cis-1,3-Dichloropropene     | 2.3    | U   | 5.0 | 2.3  |
| 100-41-4   | Ethylbenzene                | 1.5    | U   | 5.0 | 1.5  |
| 75-09-2    | Methylene Chloride          | 1.6    | U   | 5.0 | 1.6  |
| 100-42-5   | Styrene                     | 2.1    | U   | 5.0 | 2.1  |
| 127-18-4   | Tetrachloroethene           | 1100   | B   | 5.0 | 1.2  |
| 108-88-3   | Toluene                     | 1.9    | U   | 5.0 | 1.9  |
| 156-60-5   | trans-1,2-Dichloroethene    | 1.2    | U   | 5.0 | 1.2  |
| 10061-02-6 | trans-1,3-Dichloropropene   | 2.4    | U   | 5.0 | 2.4  |
| 79-01-6    | Trichloroethene             | 33     |     | 5.0 | 1.6  |
| 75-01-4    | Vinyl chloride              | 0.86   | U   | 5.0 | 0.86 |
| 1330-20-7  | Xylenes, Total              | 3.3    | U   | 10  | 3.3  |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FSMW-14B 09262018 Lab Sample ID: 460-165769-2  
Matrix: Water Lab File ID: J76078.D  
Analysis Method: 8260C Date Collected: 09/26/2018 13:25  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 13:40  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 5  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558952 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 95   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 110  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76078.D  
 Lims ID: 460-165769-C-2  
 Client ID: FSMW-14B 09262018  
 Sample Type: Client  
 Inject. Date: 10-Oct-2018 13:40:30 ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 5.0000  
 Sample Info: 460-165769-C-2  
 Misc. Info.: 460-0080037-015  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 10:08:32 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: maheseep

Date: 11-Oct-2018 10:03:38

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.733        | 2.732            | 0.001            | 0  | 196846   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.738        | 3.725            | 0.013            | 0  | 243276   | 250.0             |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.760        | 3.759            | 0.001            | 93 | 3444     | 1.30              |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.183        | 4.182            | 0.001            | 98 | 115374   | 54.8              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.514        | 4.513            | 0.001            | 0  | 110534   | 48.1              |       |
| * 62 Fluorobenzene               | 96  | 4.777        | 4.776            | 0.001            | 99 | 390984   | 50.0              |       |
| 64 Trichloroethene               | 95  | 5.119        | 5.118            | 0.001            | 95 | 15219    | 6.62              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.484        | 5.472            | 0.012            | 0  | 17603    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.409        | 6.408            | 0.001            | 99 | 325268   | 45.8              |       |
| 84 Tetrachloroethene             | 166 | 7.083        | 7.082            | 0.001            | 97 | 488965   | 214.9             |       |
| * 90 Chlorobenzene-d5            | 117 | 8.190        | 8.178            | 0.012            | 83 | 297787   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.652        | 9.651            | 0.001            | 97 | 107127   | 47.7              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.622       | 10.621           | 0.001            | 94 | 163884   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80037.b\\J76078.D

Injection Date: 10-Oct-2018 13:40:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-C-2

Lab Sample ID: 460-165769-2

Worklist Smp#: 15

Client ID: FSMW-14B 09262018

Purge Vol: 5.000 mL

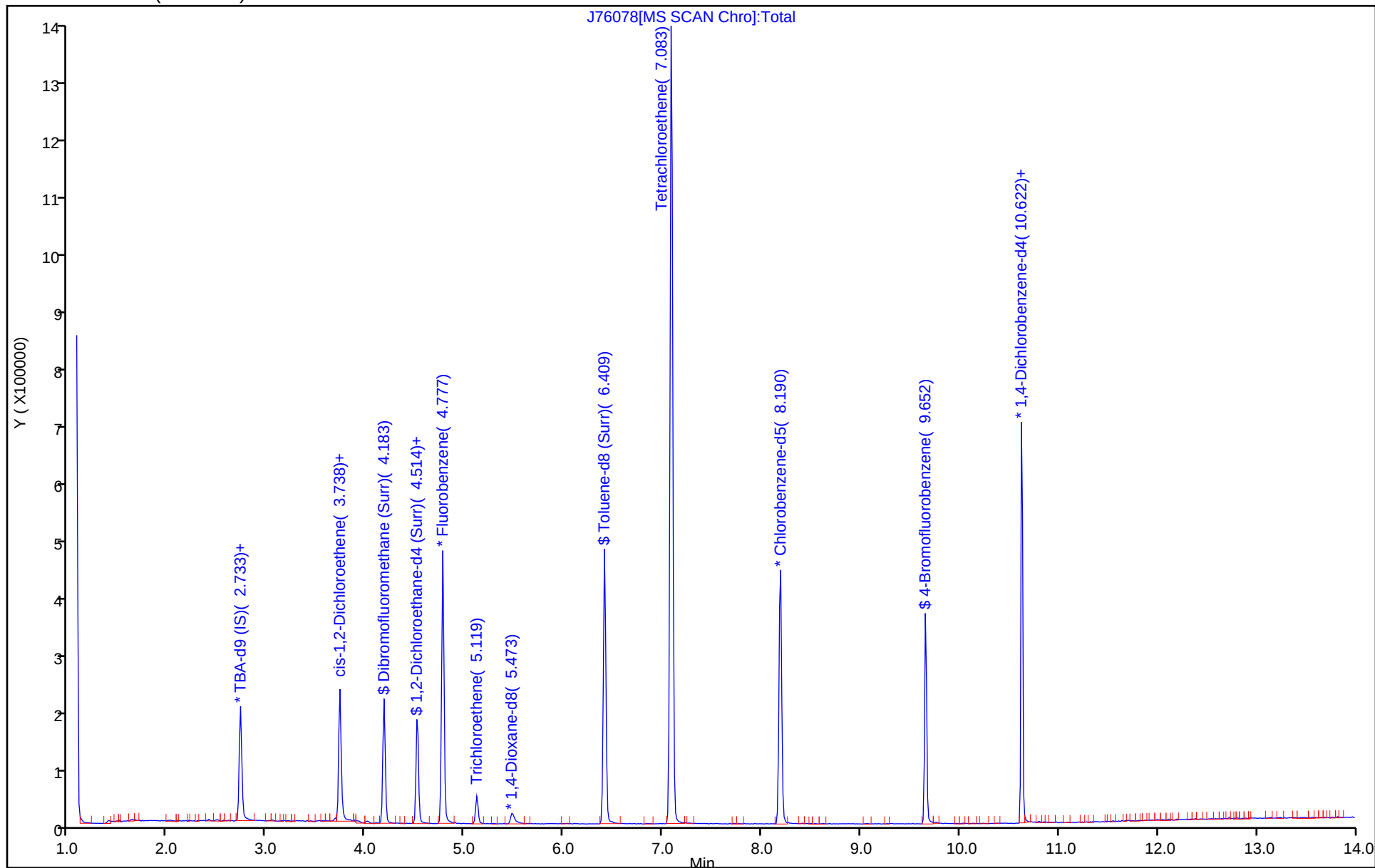
Dil. Factor: 5.0000

ALS Bottle#: 14

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80037.b\\J76078.D

Injection Date: 10-Oct-2018 13:40:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-C-2

Lab Sample ID: 460-165769-2

Client ID: FSMW-14B 09262018

Operator ID:

ALS Bottle#:

14

Worklist Smp#:

15

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260\_W8

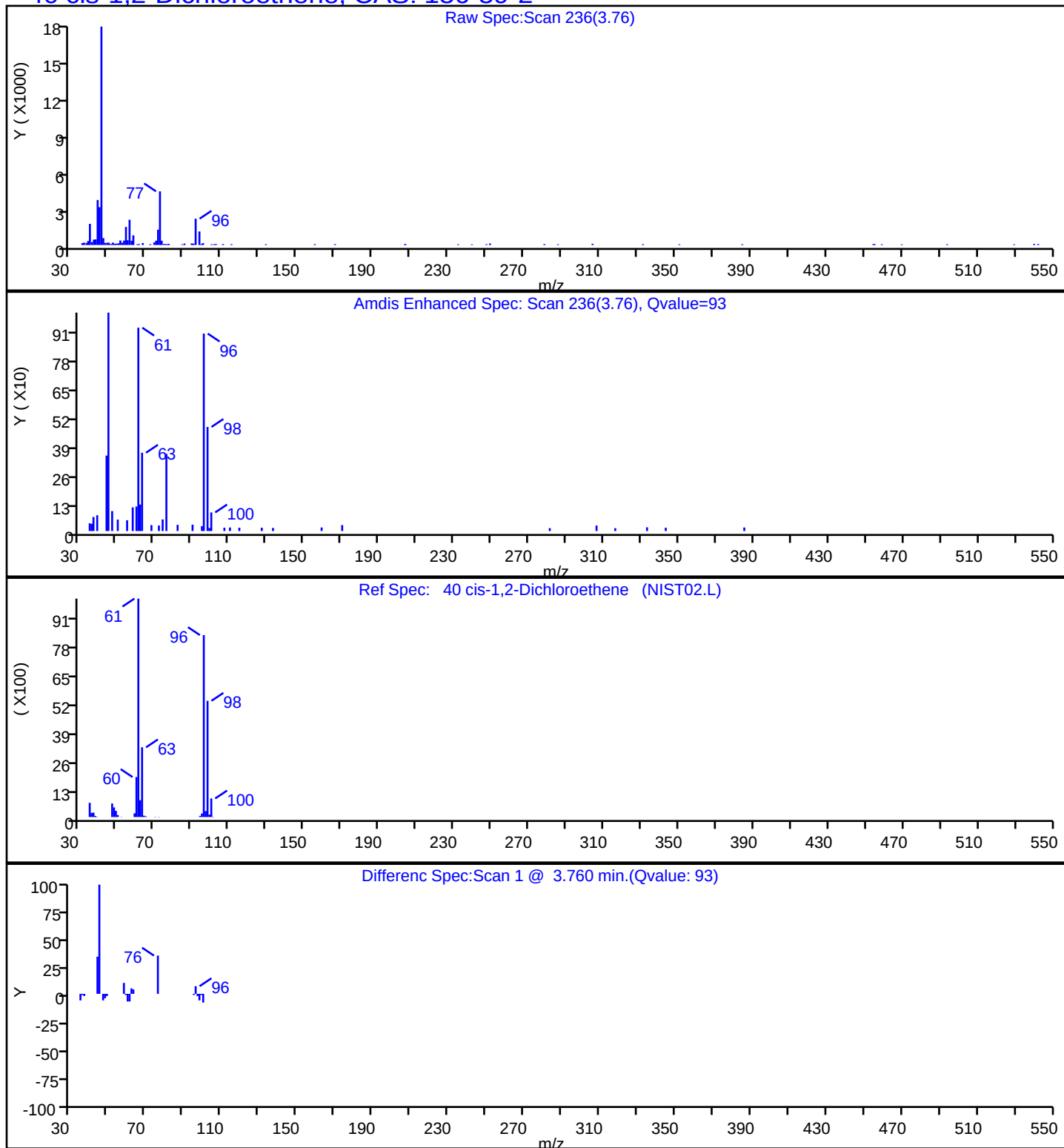
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**40 cis-1,2-Dichloroethene, CAS: 156-59-2**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76078.D

Injection Date: 10-Oct-2018 13:40:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-C-2

Lab Sample ID: 460-165769-2

Client ID: FSMW-14B 09262018

Operator ID:

ALS Bottle#:

14

Worklist Smp#:

15

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260\_W8

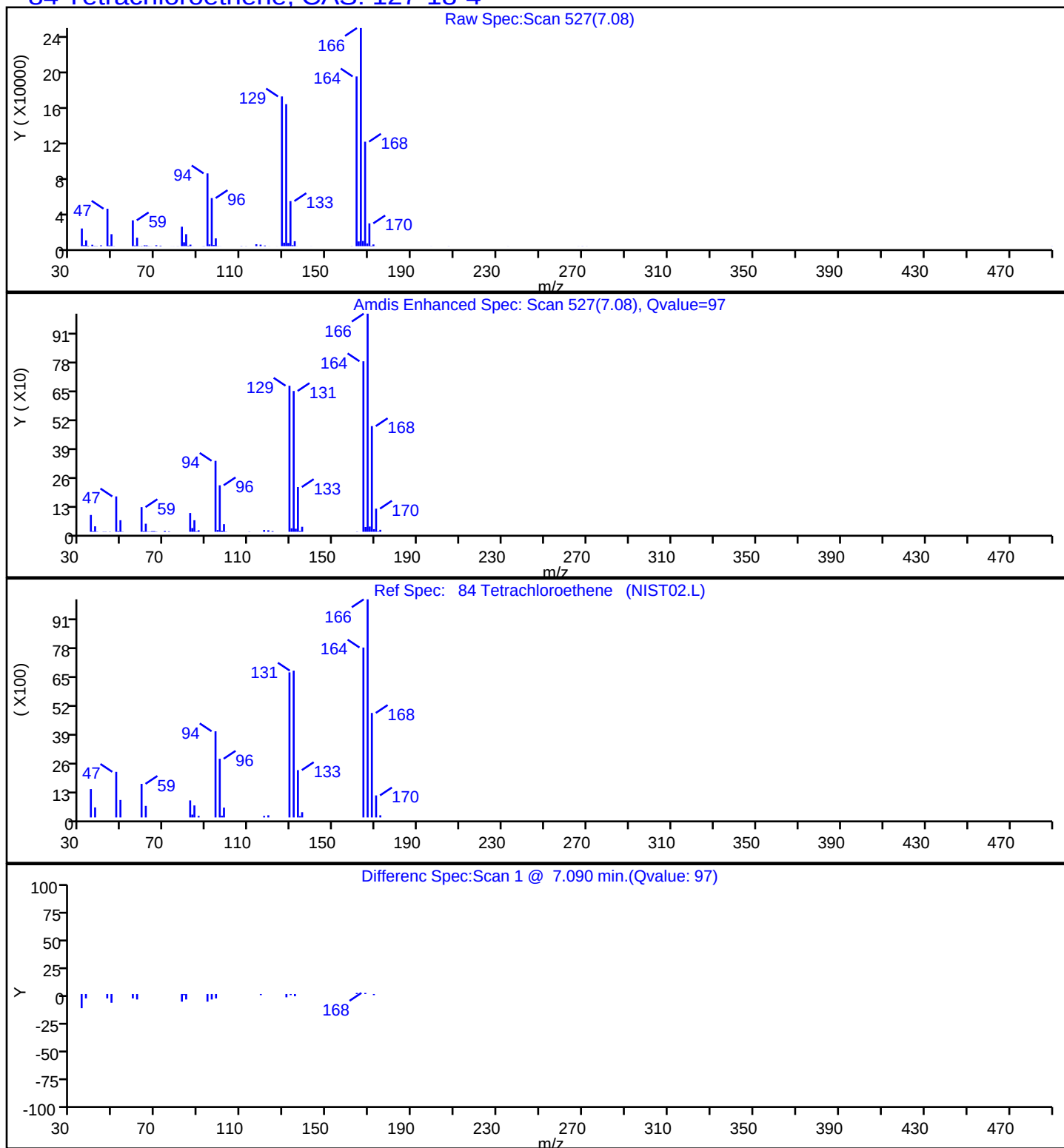
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**84 Tetrachloroethene, CAS: 127-18-4**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76078.D

Injection Date: 10-Oct-2018 13:40:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-C-2

Lab Sample ID: 460-165769-2

Client ID: FSMW-14B 09262018

Operator ID:

ALS Bottle#:

14

Worklist Smp#:

15

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260\_W8

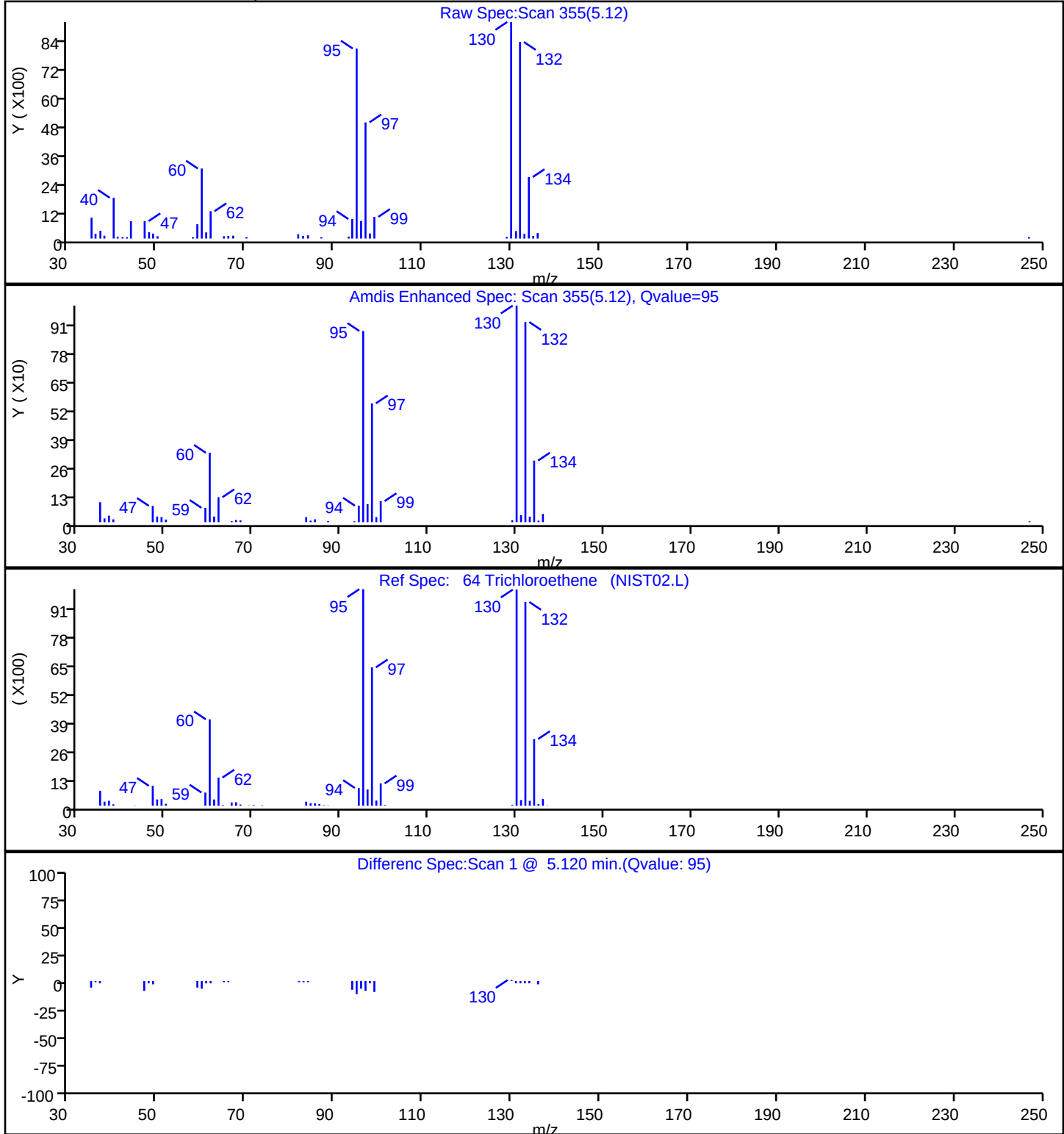
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**64 Trichloroethene, CAS: 79-01-6**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76078.D

Injection Date: 10-Oct-2018 13:40:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-C-2

Lab Sample ID: 460-165769-2

Client ID: FSMW-14B 09262018

Operator ID:

ALS Bottle#:

14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

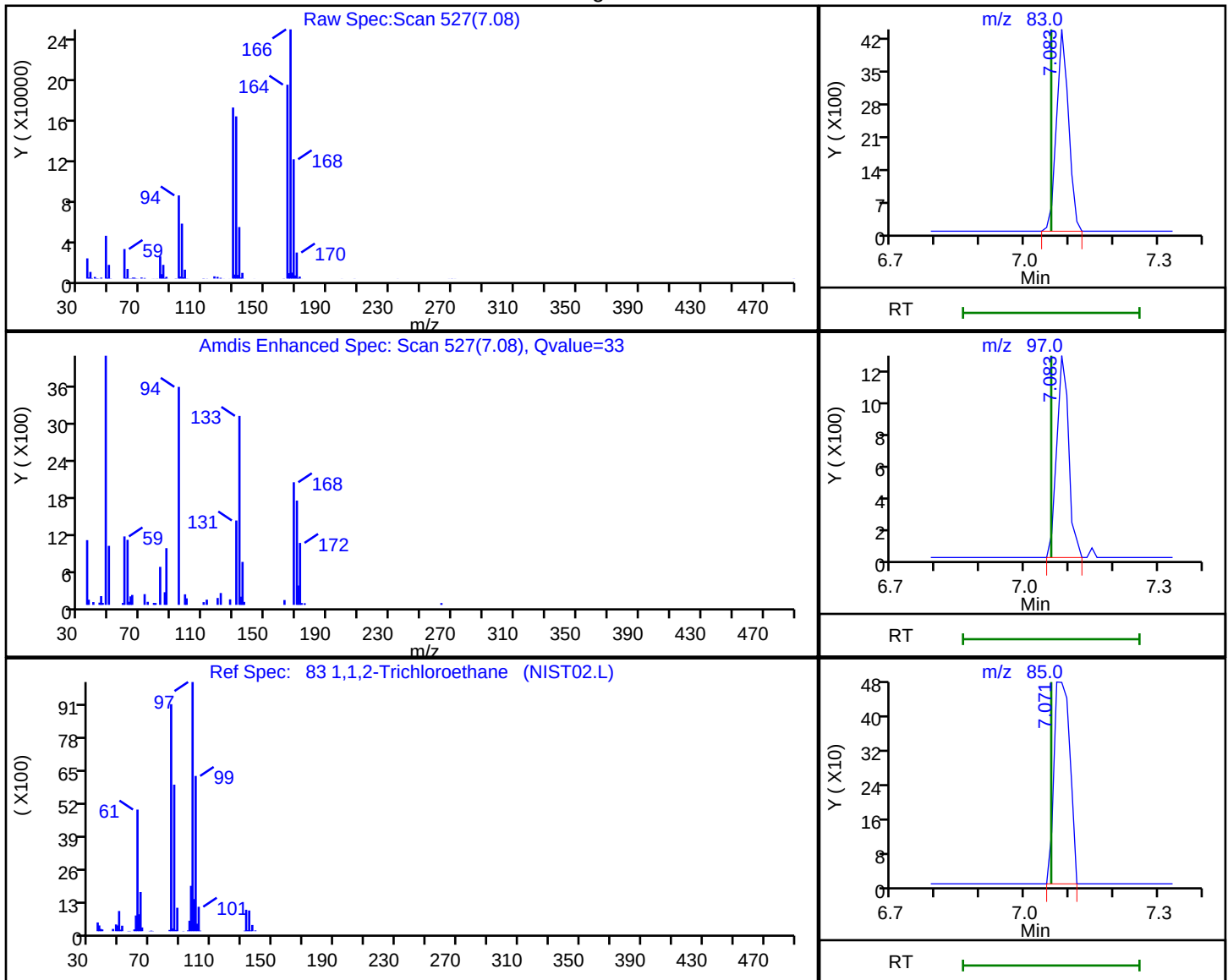
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 83 1,1,2-Trichloroethane, CAS: 79-00-5

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.08 | 83.00 | 8223     | 4.139538 |
| 7.08 | 97.00 | 2317     |          |
| 7.07 | 85.00 | 1200     |          |

Reviewer: maheseep, 11-Oct-2018 10:03:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: FSMW-13A 09262018 Lab Sample ID: 460-165769-3

Matrix: Water Lab File ID: J76058.D

Analysis Method: 8260C Date Collected: 09/26/2018 15:00

Sample wt/vol: 5(mL) Date Analyzed: 10/10/2018 05:10

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 1.2    |   | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 6.5    |   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 190    |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 5.6    |   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FSMW-13A 09262018 Lab Sample ID: 460-165769-3  
Matrix: Water Lab File ID: J76058.D  
Analysis Method: 8260C Date Collected: 09/26/2018 15:00  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 05:10  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 97   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 111  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76058.D  
 Lims ID: 460-165769-A-3  
 Client ID: FSMW-13A 09262018  
 Sample Type: Client  
 Inject. Date: 10-Oct-2018 05:10:30 ALS Bottle#: 22 Worklist Smp#: 23  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-A-3  
 Misc. Info.: 460-0080013-023  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:40:25 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: xuyvo

Date: 10-Oct-2018 16:48:08

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.721        | 2.732            | -0.011           | 0  | 183630   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.726        | 3.725            | 0.001            | 0  | 237522   | 250.0             |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.760        | 3.748            | 0.012            | 99 | 16648    | 6.46              |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.182        | 4.171            | 0.011            | 97 | 113857   | 55.6              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513        | 4.513            | 0.000            | 0  | 110471   | 49.4              |       |
| * 62 Fluorobenzene               | 96  | 4.776        | 4.764            | 0.012            | 99 | 380147   | 50.0              |       |
| 64 Trichloroethene               | 95  | 5.118        | 5.107            | 0.011            | 95 | 12590    | 5.63              |       |
| 67 1,2-Dichloropropane           | 63  | 5.404        | 5.392            | 0.012            | 93 | 2913     | 1.19              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472        | 5.472            | 0.000            | 0  | 18377    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.409        | 6.397            | 0.012            | 99 | 319048   | 46.3              |       |
| 84 Tetrachloroethene             | 166 | 7.082        | 7.082            | 0.000            | 97 | 414103   | 187.6             |       |
| * 90 Chlorobenzene-d5            | 117 | 8.178        | 8.178            | 0.000            | 84 | 288776   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.651        | 9.651            | 0.000            | 97 | 105548   | 48.5              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.621       | 10.621           | 0.000            | 93 | 161050   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76058.D

Injection Date: 10-Oct-2018 05:10:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-A-3

Lab Sample ID: 460-165769-3

Worklist Smp#: 23

Client ID: FSMW-13A 09262018

Purge Vol: 5.000 mL

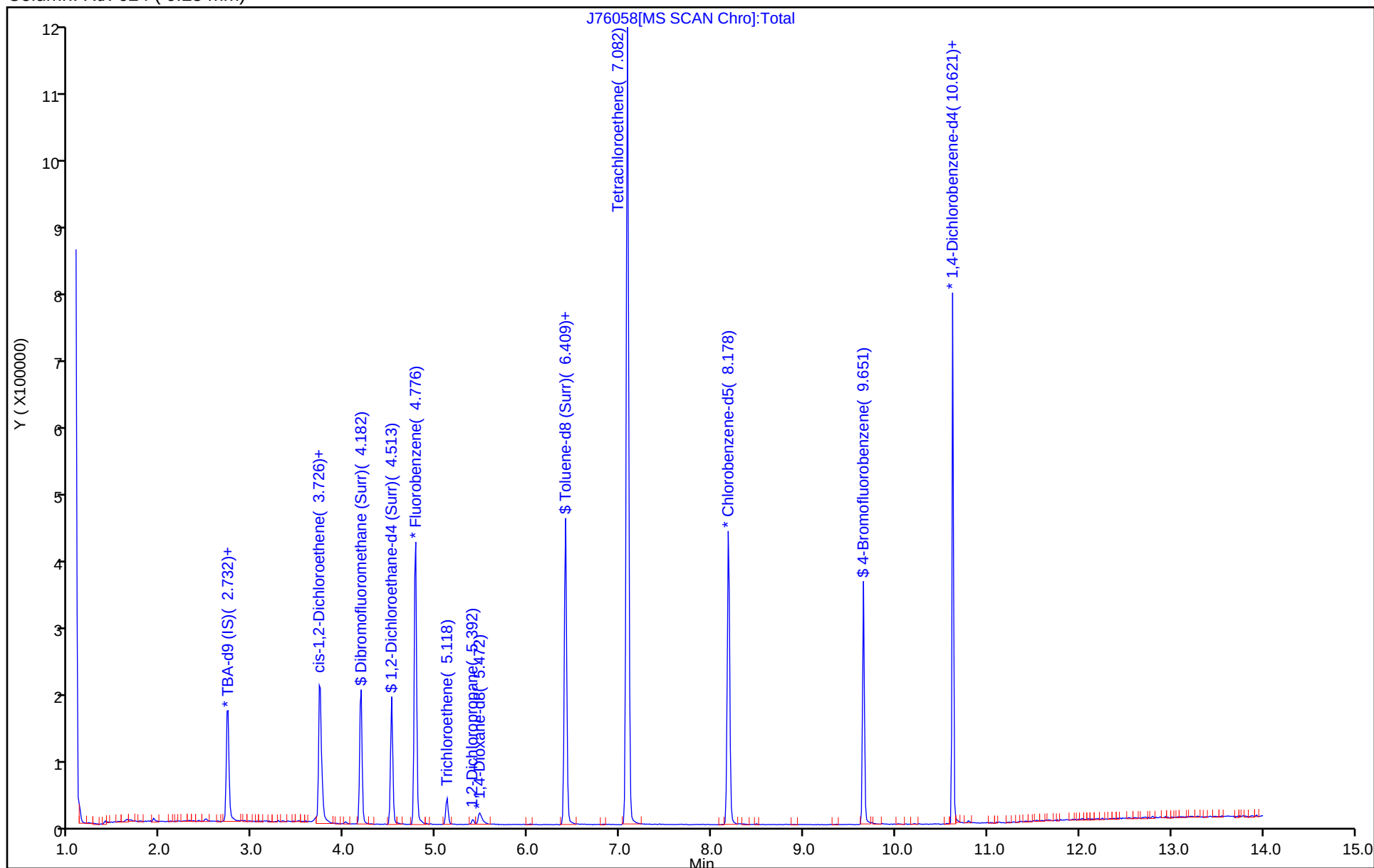
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76058.D

Injection Date: 10-Oct-2018 05:10:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-3

Lab Sample ID: 460-165769-3

Client ID: FSMW-13A 09262018

Operator ID:

ALS Bottle#:

22

Worklist Smp#:

23

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

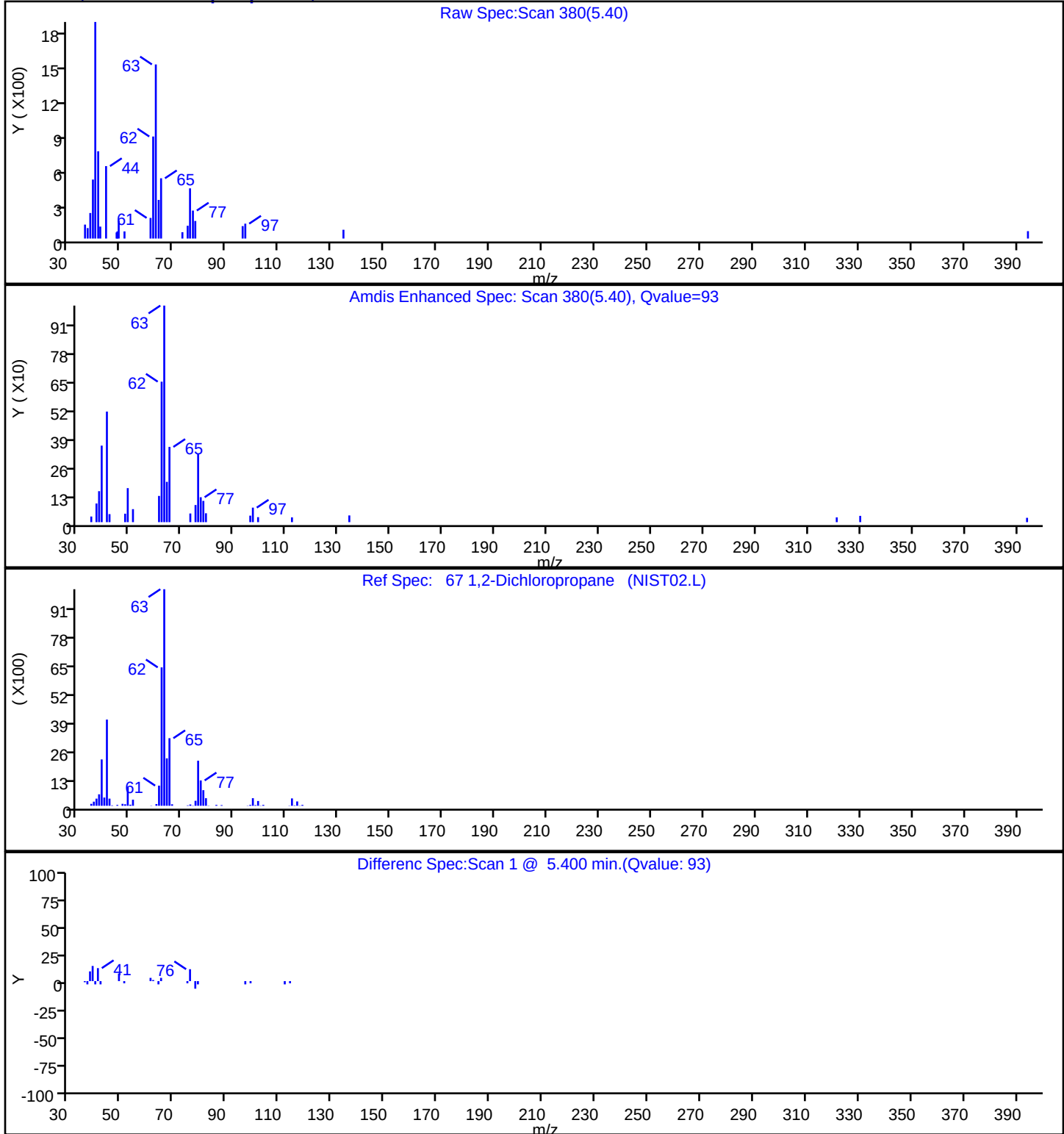
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**67 1,2-Dichloropropane, CAS: 78-87-5**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76058.D

Injection Date: 10-Oct-2018 05:10:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-3

Lab Sample ID: 460-165769-3

Client ID: FSMW-13A 09262018

Operator ID:

ALS Bottle#:

22

Worklist Smp#:

23

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

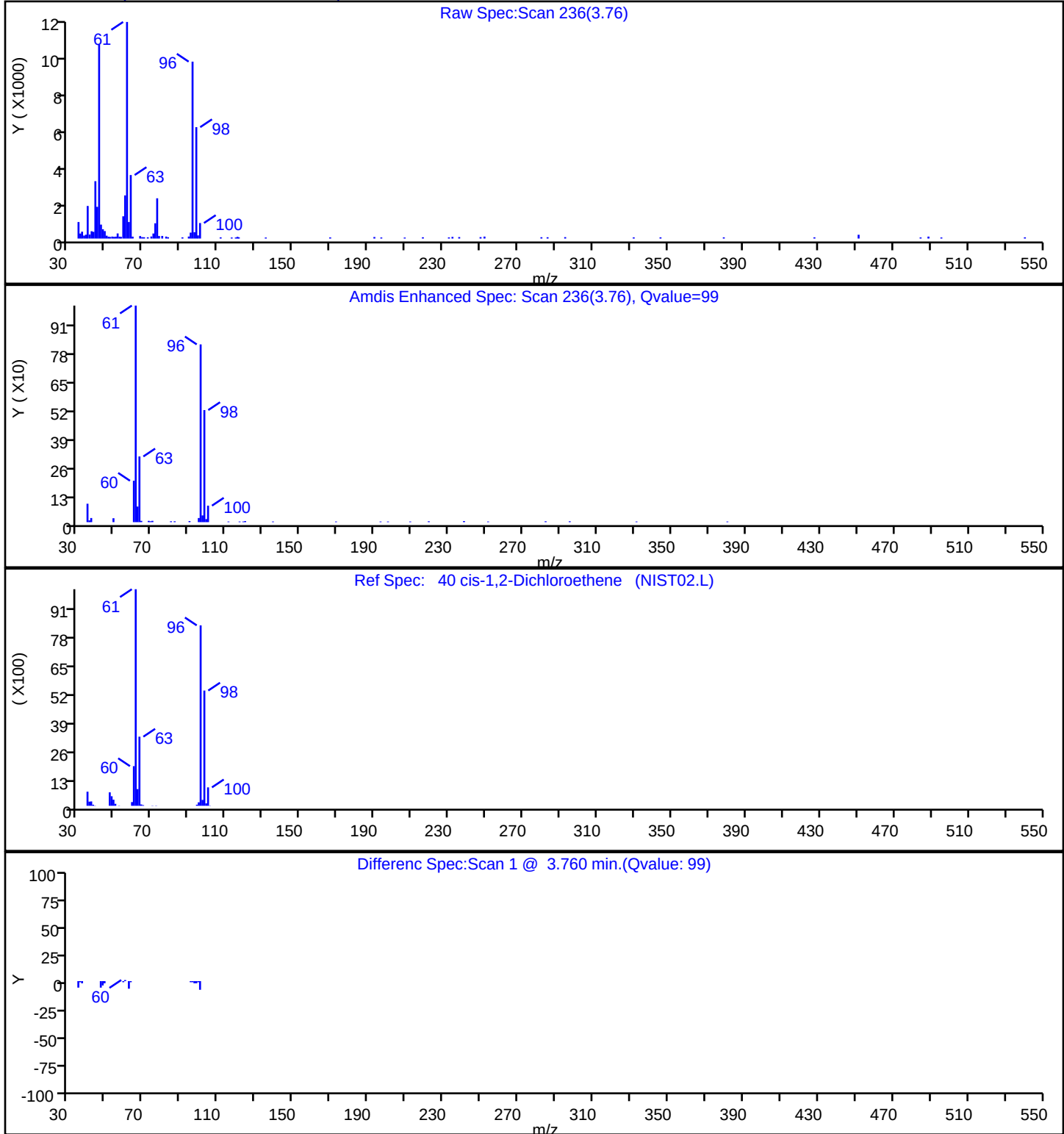
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**40 cis-1,2-Dichloroethene, CAS: 156-59-2**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76058.D

Injection Date: 10-Oct-2018 05:10:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-3

Lab Sample ID: 460-165769-3

Client ID: FSMW-13A 09262018

Operator ID:

ALS Bottle#:

22

Worklist Smp#:

23

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

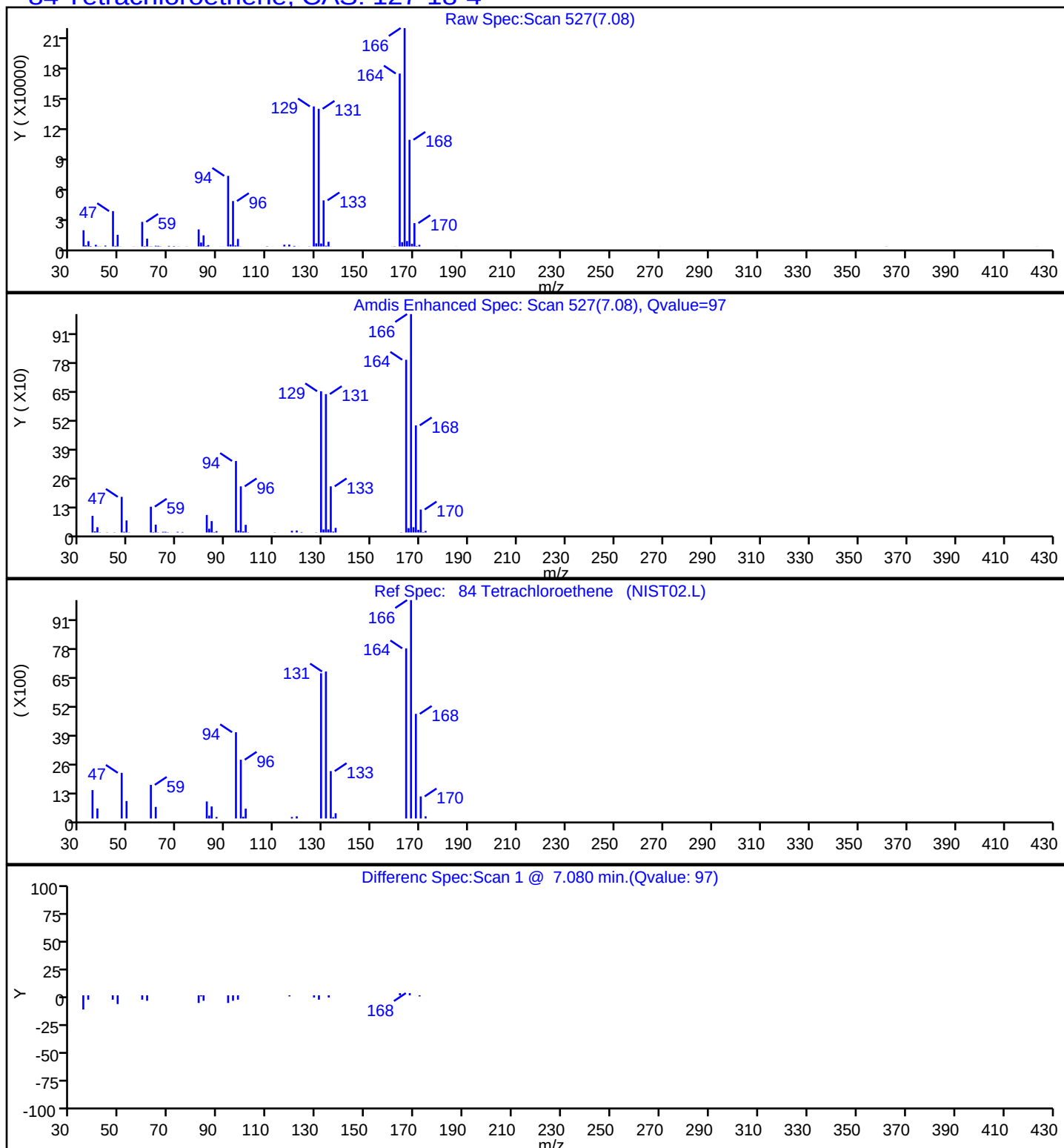
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**84 Tetrachloroethene, CAS: 127-18-4**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76058.D

Injection Date: 10-Oct-2018 05:10:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-3

Lab Sample ID: 460-165769-3

Client ID: FSMW-13A 09262018

Operator ID:

ALS Bottle#:

22

Worklist Smp#:

23

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

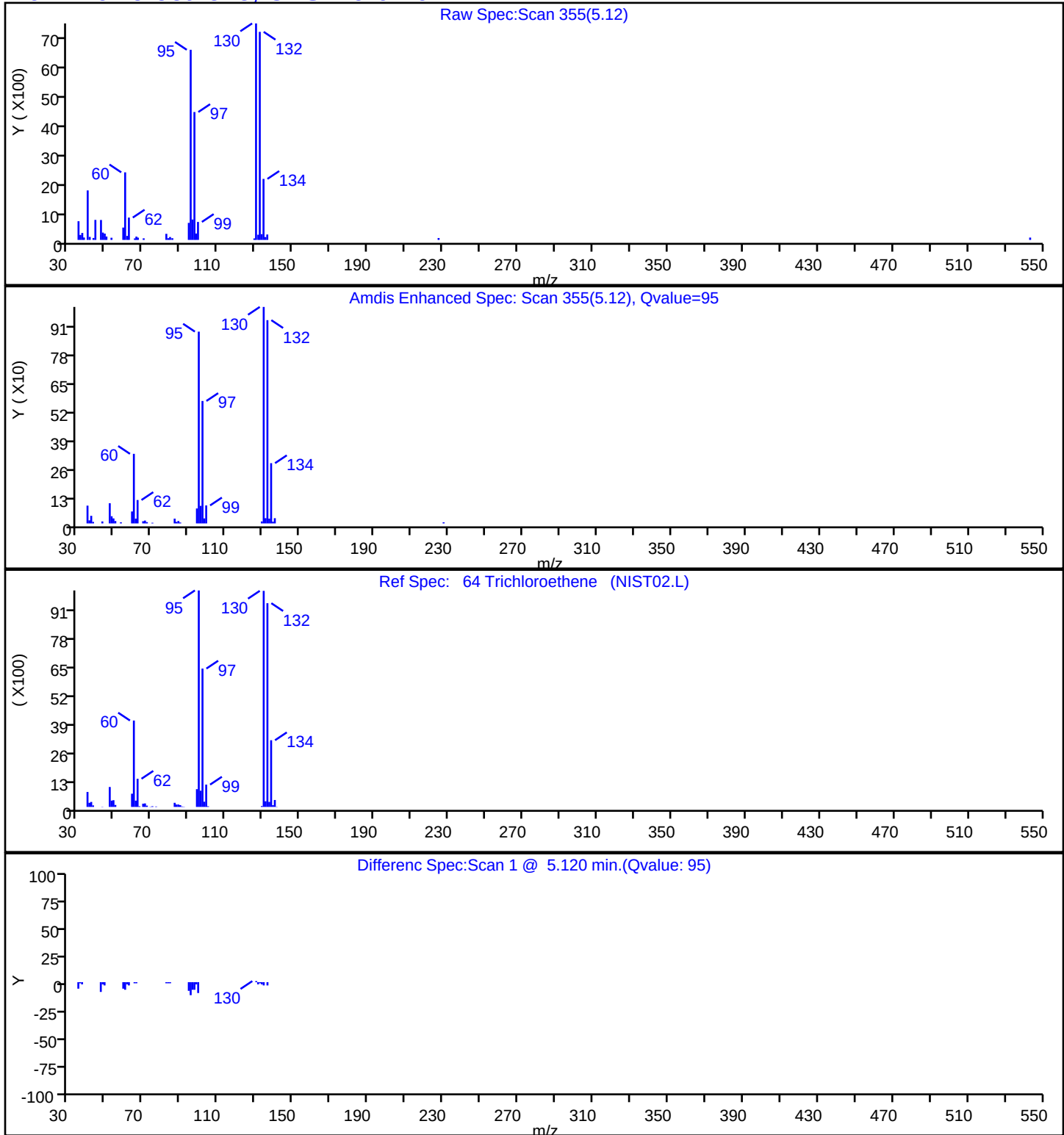
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**64 Trichloroethene, CAS: 79-01-6**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76058.D

Injection Date: 10-Oct-2018 05:10:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-3

Lab Sample ID: 460-165769-3

Client ID: FSMW-13A 09262018

Operator ID:

ALS Bottle#:

22

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

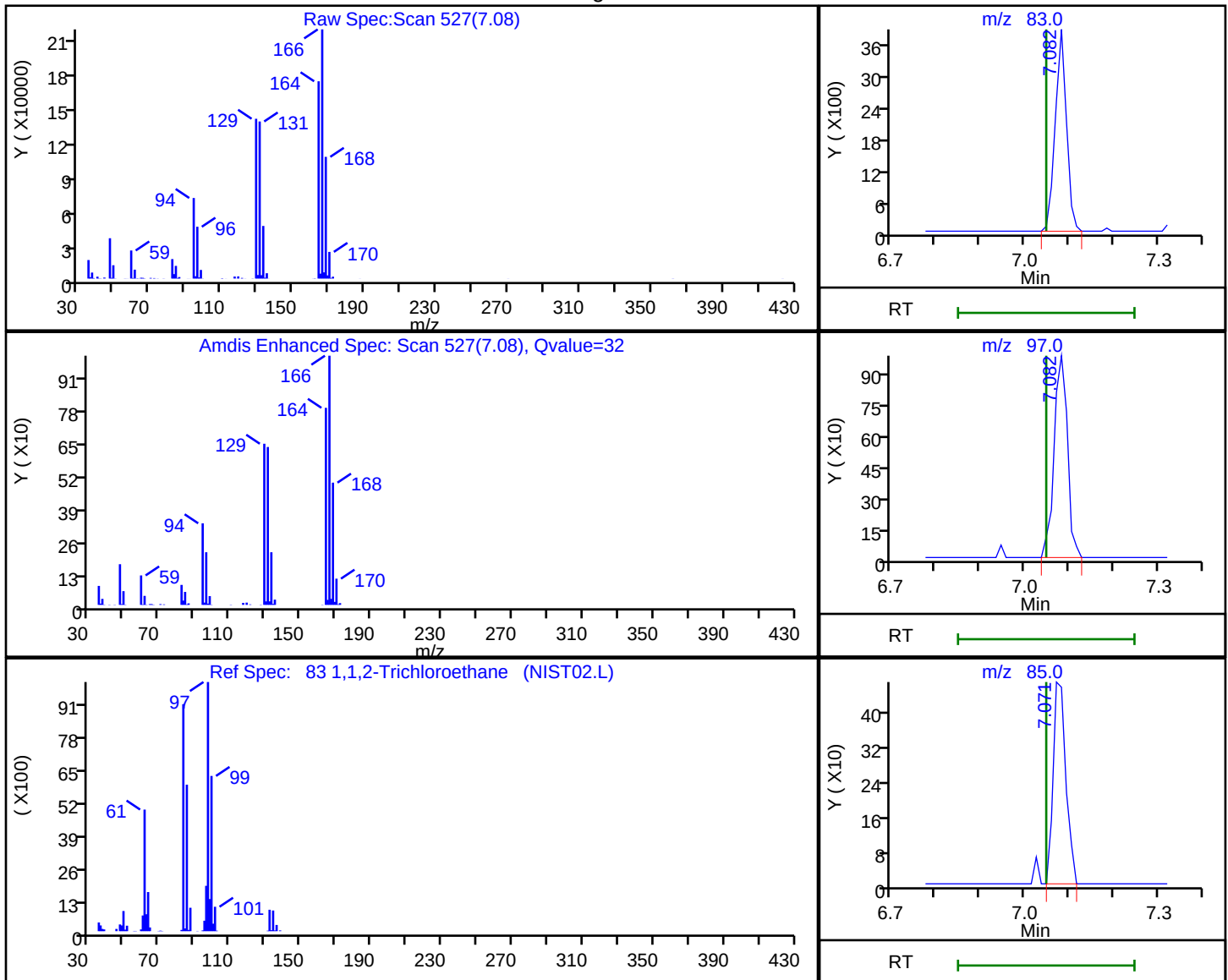
Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

## 83 1,1,2-Trichloroethane, CAS: 79-00-5

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.08 | 83.00 | 6875     | 3.568938 |
| 7.08 | 97.00 | 2076     |          |
| 7.07 | 85.00 | 926      |          |

Reviewer: moroneyc, 10-Oct-2018 07:51:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                     |                                                |
|-------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u> | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                      |                                                |
| Client Sample ID: <u>EB1 092618</u> | Lab Sample ID: <u>460-165769-4</u>             |
| Matrix: <u>Water</u>                | Lab File ID: <u>J76044.D</u>                   |
| Analysis Method: <u>8260C</u>       | Date Collected: <u>09/26/2018 11:20</u>        |
| Sample wt/vol: <u>5(mL)</u>         | Date Analyzed: <u>10/09/2018 22:54</u>         |
| Soil Aliquot Vol: _____             | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____            | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                   | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>558837</u>   | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 2.3    | J | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 8.2    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 1.1    |   | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.25   | U | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EB1 092618 Lab Sample ID: 460-165769-4  
Matrix: Water Lab File ID: J76044.D  
Analysis Method: 8260C Date Collected: 09/26/2018 11:20  
Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2018 22:54  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 98   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 105  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 80-120 |



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76044.D  
 Lims ID: 460-165769-A-4  
 Client ID: EB1 092618  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 22:54:30 ALS Bottle#: 8 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-A-4  
 Misc. Info.: 460-0080013-009  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:40:25 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: parekhv

Date: 09-Oct-2018 23:46:07

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| 18 Acetone                       | 43  | 2.404        | 2.401            | 0.003            | 84 | 4977     | 8.20              |       |
| 26 Methylene Chloride            | 84  | 2.723        | 2.721            | 0.002            | 31 | 3932     | 1.07              |       |
| * 27 TBA-d9 (IS)                 | 65  | 2.723        | 2.732            | -0.009           | 0  | 183544   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.728        | 3.725            | 0.003            | 0  | 233918   | 250.0             |       |
| 41 2-Butanone (MEK)              | 72  | 3.785        | 3.782            | 0.003            | 95 | 554      | 2.29              |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.173        | 4.171            | 0.002            | 98 | 113926   | 52.6              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.504        | 4.513            | -0.009           | 0  | 109912   | 46.4              |       |
| * 62 Fluorobenzene               | 96  | 4.767        | 4.764            | 0.003            | 99 | 402713   | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.463        | 5.472            | -0.009           | 0  | 18964    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.399        | 6.397            | 0.002            | 99 | 332191   | 47.1              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.180        | 8.178            | 0.002            | 84 | 295784   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.653        | 9.651            | 0.002            | 97 | 108816   | 48.8              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.624       | 10.621           | 0.003            | 92 | 168528   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76044.D

Injection Date: 09-Oct-2018 22:54:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-A-4

Lab Sample ID: 460-165769-4

Worklist Smp#: 9

Client ID: EB1 092618

Purge Vol: 5.000 mL

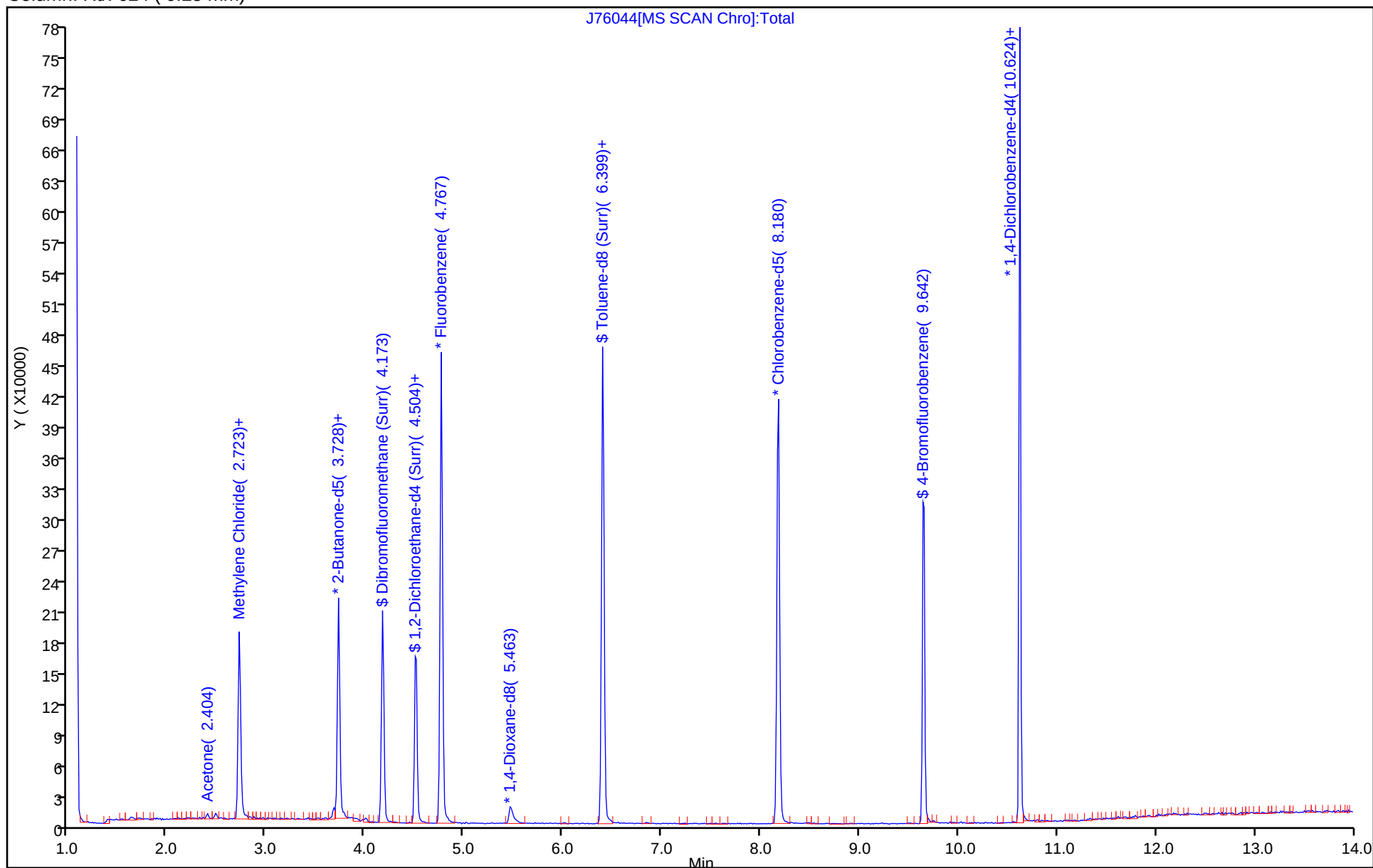
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76044.D

Injection Date: 09-Oct-2018 22:54:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-4

Lab Sample ID: 460-165769-4

Client ID: EB1 092618

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

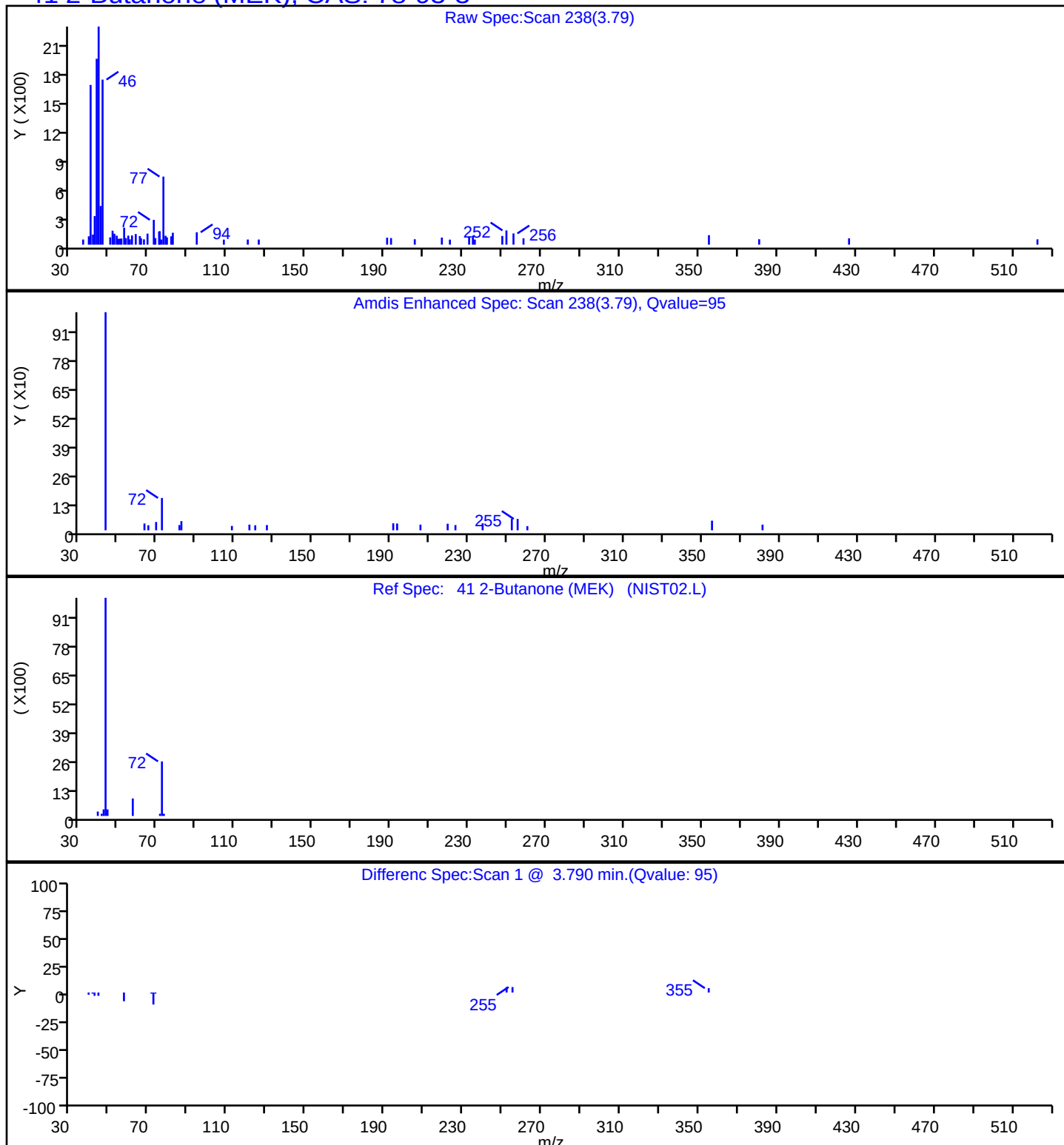
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**41 2-Butanone (MEK), CAS: 78-93-3**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76044.D

Injection Date: 09-Oct-2018 22:54:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-4

Lab Sample ID: 460-165769-4

Client ID: EB1 092618

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

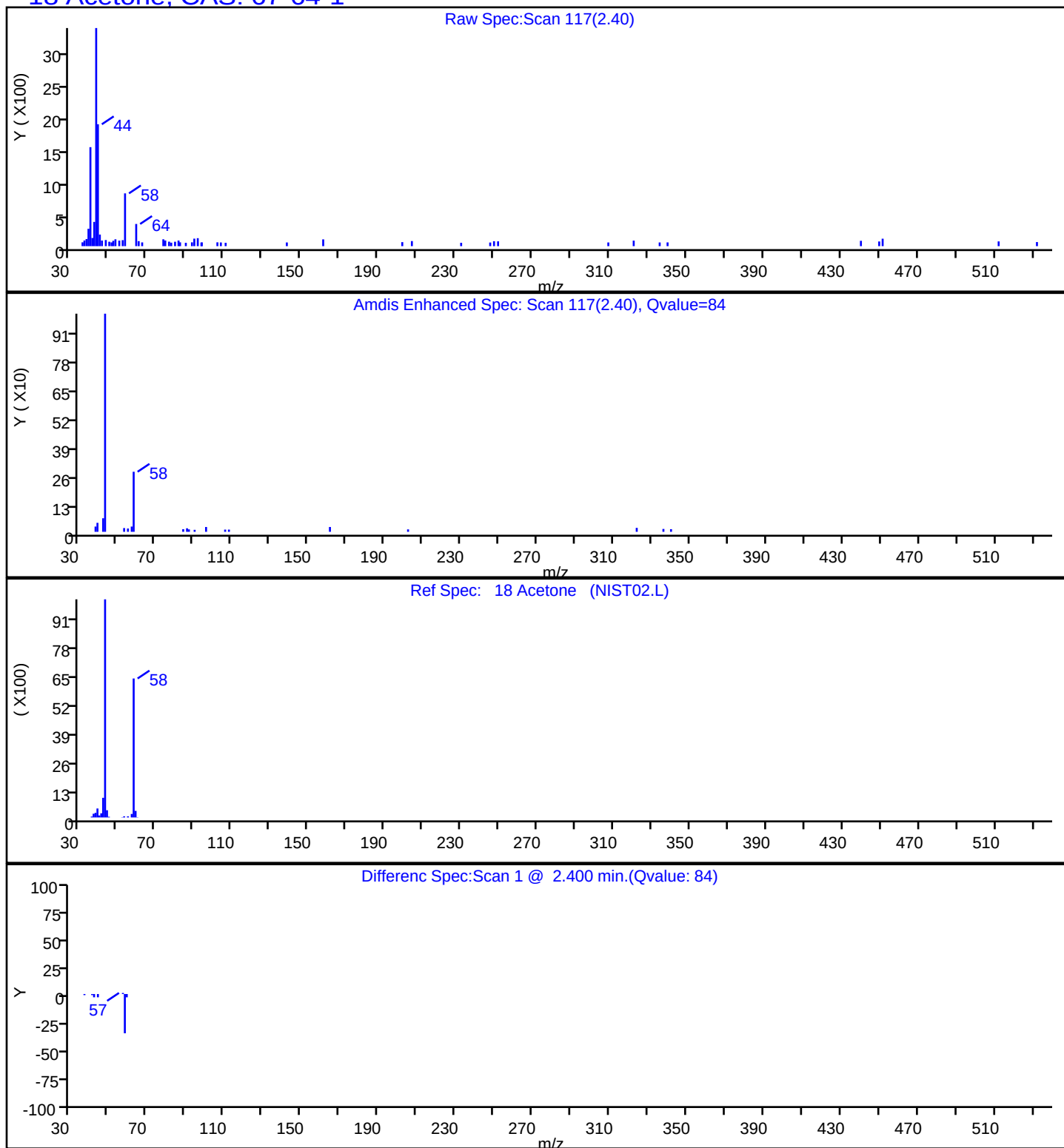
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**18 Acetone, CAS: 67-64-1**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76044.D

Injection Date: 09-Oct-2018 22:54:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-4

Lab Sample ID: 460-165769-4

Client ID: EB1 092618

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

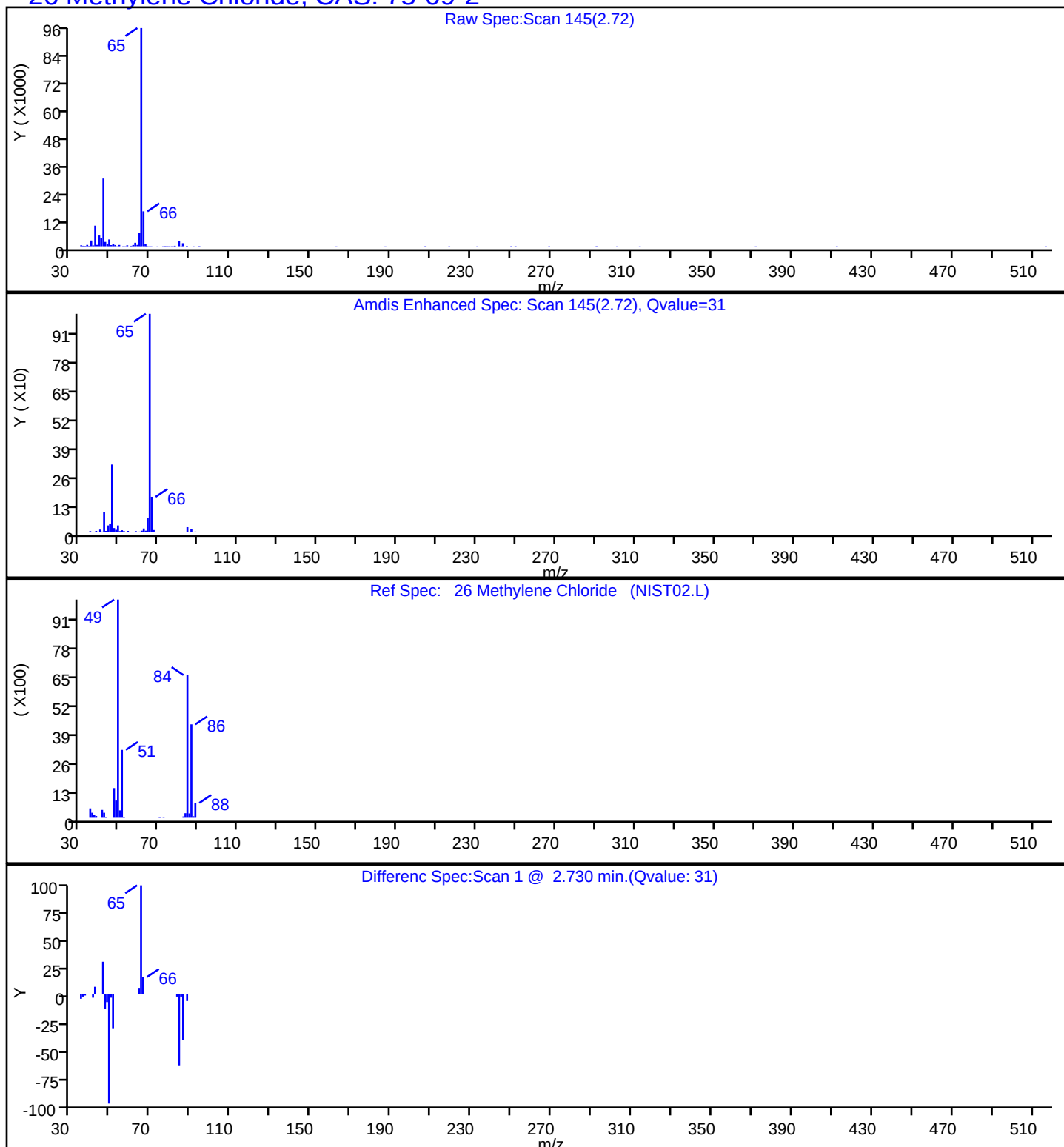
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**26 Methylene Chloride, CAS: 75-09-2**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76044.D

Injection Date: 09-Oct-2018 22:54:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-4

Lab Sample ID: 460-165769-4

Client ID: EB1 092618

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

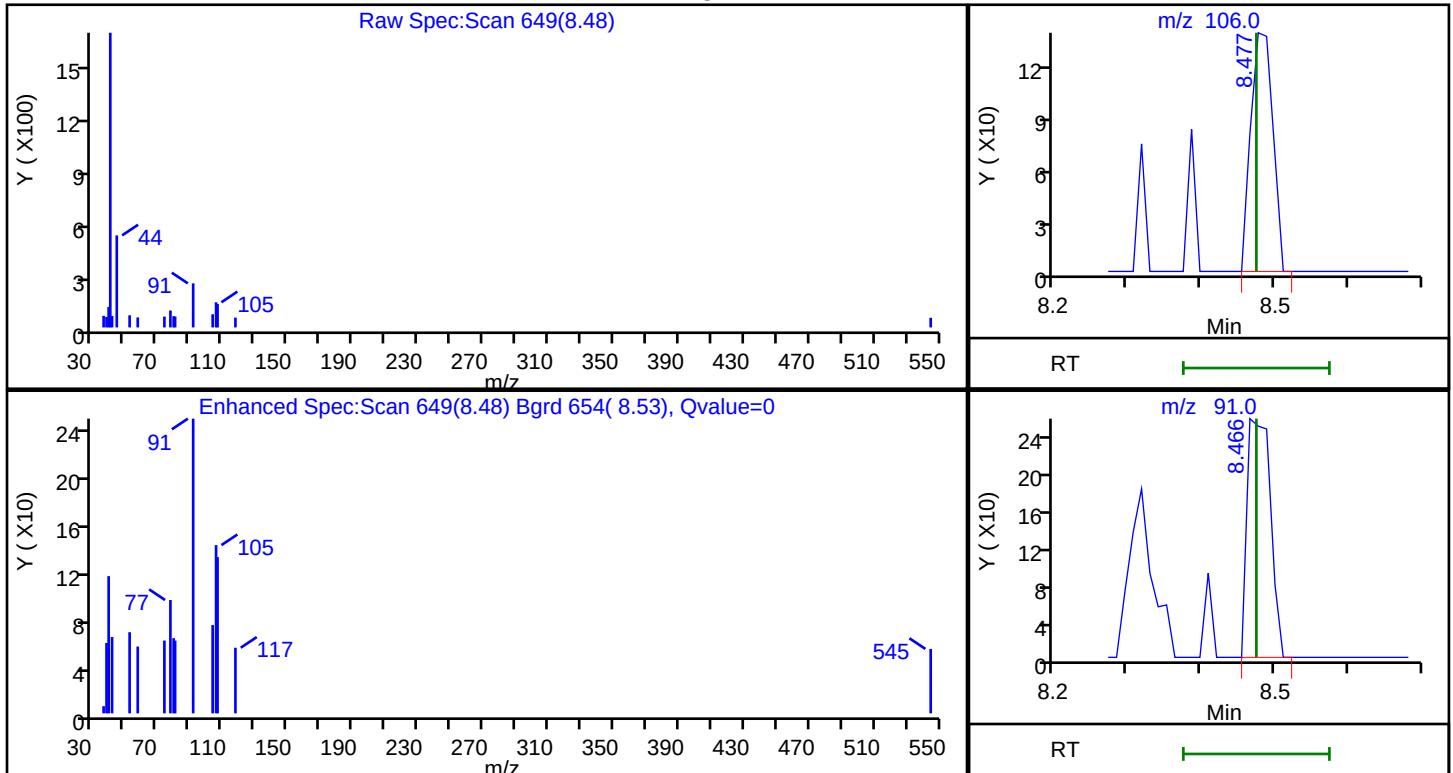
Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector MS SCAN

## 94 m-Xylene &amp; p-Xylene, CAS: 179601-23-1

## Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 8.48 | 106.00 | 274      | 0.468922 |
| 8.47 | 91.00  | 564      |          |

Reviewer: parekhv, 09-Oct-2018 23:45:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                       |                                                |
|---------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u>   | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                        |                                                |
| Client Sample ID: <u>FB1 09262018</u> | Lab Sample ID: <u>460-165769-5</u>             |
| Matrix: <u>Water</u>                  | Lab File ID: <u>J76045.D</u>                   |
| Analysis Method: <u>8260C</u>         | Date Collected: <u>09/26/2018 13:00</u>        |
| Sample wt/vol: <u>5(mL)</u>           | Date Analyzed: <u>10/09/2018 23:21</u>         |
| Soil Aliquot Vol: _____               | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____              | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                     | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>558837</u>     | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.25   | U | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FB1 09262018 Lab Sample ID: 460-165769-5  
Matrix: Water Lab File ID: J76045.D  
Analysis Method: 8260C Date Collected: 09/26/2018 13:00  
Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2018 23:21  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 94   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 97   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 107  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 80-120 |



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76045.D  
 Lims ID: 460-165769-A-5  
 Client ID: FB1 09262018  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 23:21:30 ALS Bottle#: 9 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-A-5  
 Misc. Info.: 460-0080013-010  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:40:25 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: parekhv

Date: 09-Oct-2018 23:53:12

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.720        | 2.732            | -0.012           | 0  | 188598   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.725        | 3.725            | 0.000            | 0  | 244687   | 250.0             |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.170        | 4.171            | -0.001           | 97 | 114595   | 53.6              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513        | 4.513            | 0.000            | 0  | 109177   | 46.8              |       |
| * 62 Fluorobenzene               | 96  | 4.764        | 4.764            | 0.000            | 99 | 396956   | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472        | 5.472            | 0.000            | 0  | 18511    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.397        | 6.397            | 0.000            | 99 | 329719   | 46.2              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.178        | 8.178            | 0.000            | 83 | 299079   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.650        | 9.651            | -0.001           | 97 | 108972   | 48.3              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.621       | 10.621           | 0.000            | 93 | 170171   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76045.D

Injection Date: 09-Oct-2018 23:21:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-A-5

Lab Sample ID: 460-165769-5

Worklist Smp#: 10

Client ID: FB1 09262018

Purge Vol: 5.000 mL

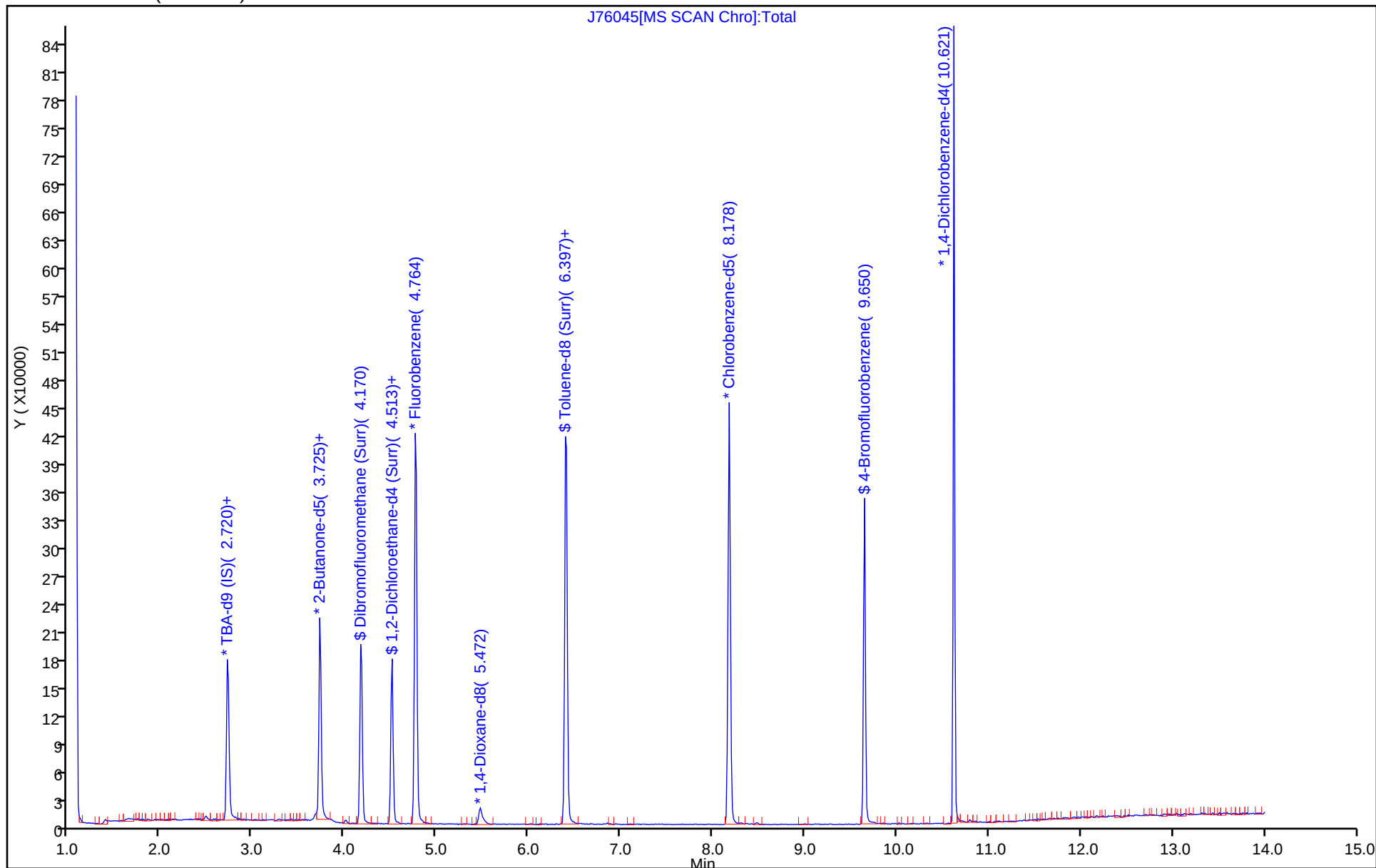
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76045.D

Injection Date: 09-Oct-2018 23:21:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-5

Lab Sample ID: 460-165769-5

Client ID: FB1 09262018

Operator ID:

ALS Bottle#:

9

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

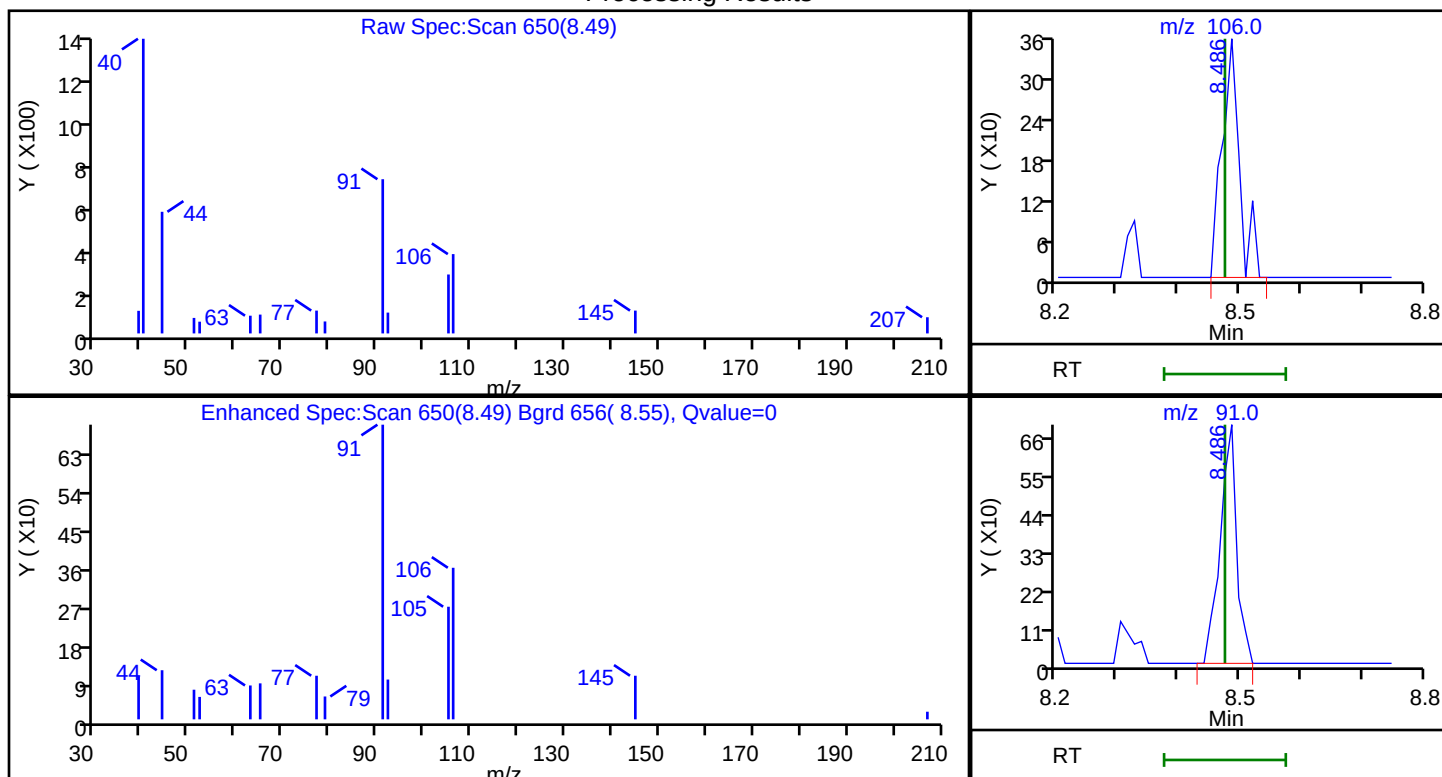
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 94 m-Xylene &amp; p-Xylene, CAS: 179601-23-1

## Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 8.49 | 106.00 | 715      | 0.590885 |
| 8.49 | 91.00  | 1310     |          |

Reviewer: moroneyc, 10-Oct-2018 07:48:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                                |
|-------------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u>       | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                            |                                                |
| Client Sample ID: <u>FSMW-8A 09272018</u> | Lab Sample ID: <u>460-165769-6</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>J76124.D</u>                   |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>09/27/2018 11:00</u>        |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>10/11/2018 11:49</u>         |
| Soil Aliquot Vol: _____                   | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____                  | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                         | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>559235</u>         | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.92   | J | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 15     |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.66   | J | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FSMW-8A 09272018 Lab Sample ID: 460-165769-6  
Matrix: Water Lab File ID: J76124.D  
Analysis Method: 8260C Date Collected: 09/27/2018 11:00  
Sample wt/vol: 5 (mL) Date Analyzed: 10/11/2018 11:49  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 559235 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 93   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 95   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 109  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76124.D  
 Lims ID: 460-165769-B-6  
 Client ID: FSMW-8A 09272018  
 Sample Type: Client  
 Inject. Date: 11-Oct-2018 11:49:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-B-6  
 Misc. Info.: 460-0080093-011  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 12-Oct-2018 01:18:50 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: xuyvo

Date: 16-Nov-2018 15:48:02

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|-----|----------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.744        | 2.744            | 0.000            | 0   | 197825   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.749        | 3.749            | 0.000            | 0   | 253487   | 250.0             |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.783        | 3.771            | 0.012            | 95  | 2394     | 0.9213            |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.194        | 4.194            | 0.000            | 97  | 112185   | 54.4              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.536        | 4.525            | 0.011            | 0   | 104787   | 46.5              |       |
| * 62 Fluorobenzene               | 96  | 4.788        | 4.787            | 0.001            | 99  | 383447   | 50.0              |       |
| 64 Trichloroethene               | 95  | 5.141        | 5.130            | 0.011            | 83  | 1478     | 0.6556            |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.495        | 5.484            | 0.011            | 0   | 17083    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.432        | 6.420            | 0.012            | 100 | 322912   | 46.0              |       |
| 84 Tetrachloroethene             | 166 | 7.105        | 7.105            | 0.000            | 97  | 33455    | 14.9              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.201        | 8.201            | 0.000            | 83  | 294661   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.674        | 9.662            | 0.012            | 98  | 105954   | 47.7              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.633       | 10.633           | 0.000            | 94  | 169281   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76124.D

Injection Date: 11-Oct-2018 11:49:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-B-6

Lab Sample ID: 460-165769-6

Worklist Smp#: 11

Client ID: FSMW-8A 09272018

Purge Vol: 5.000 mL

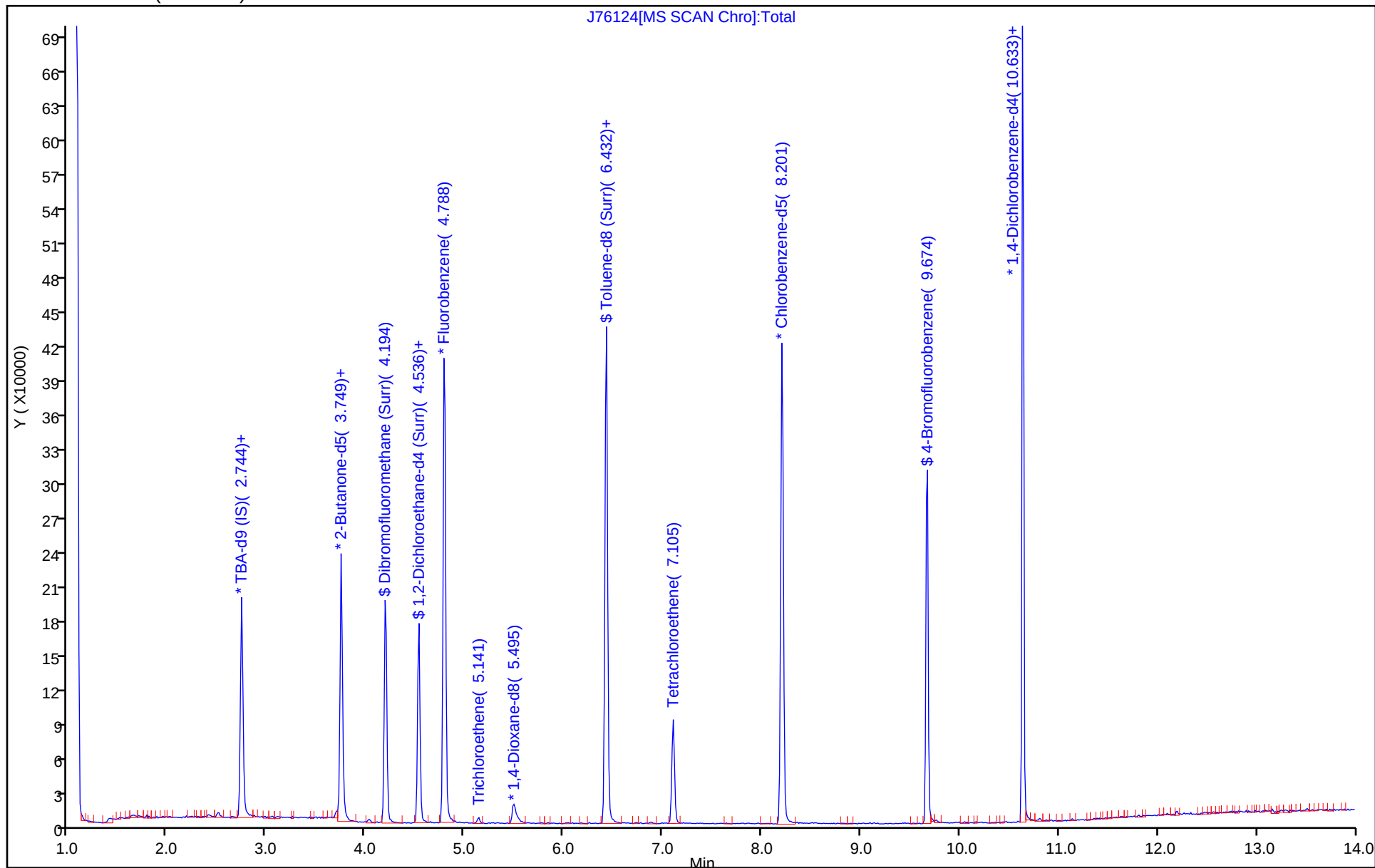
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76124.D

Injection Date: 11-Oct-2018 11:49:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-B-6

Lab Sample ID: 460-165769-6

Client ID: FSMW-8A 09272018

Operator ID:

ALS Bottle#: 10 Worklist Smp#: 11

Purge Vol: 5.000 mL

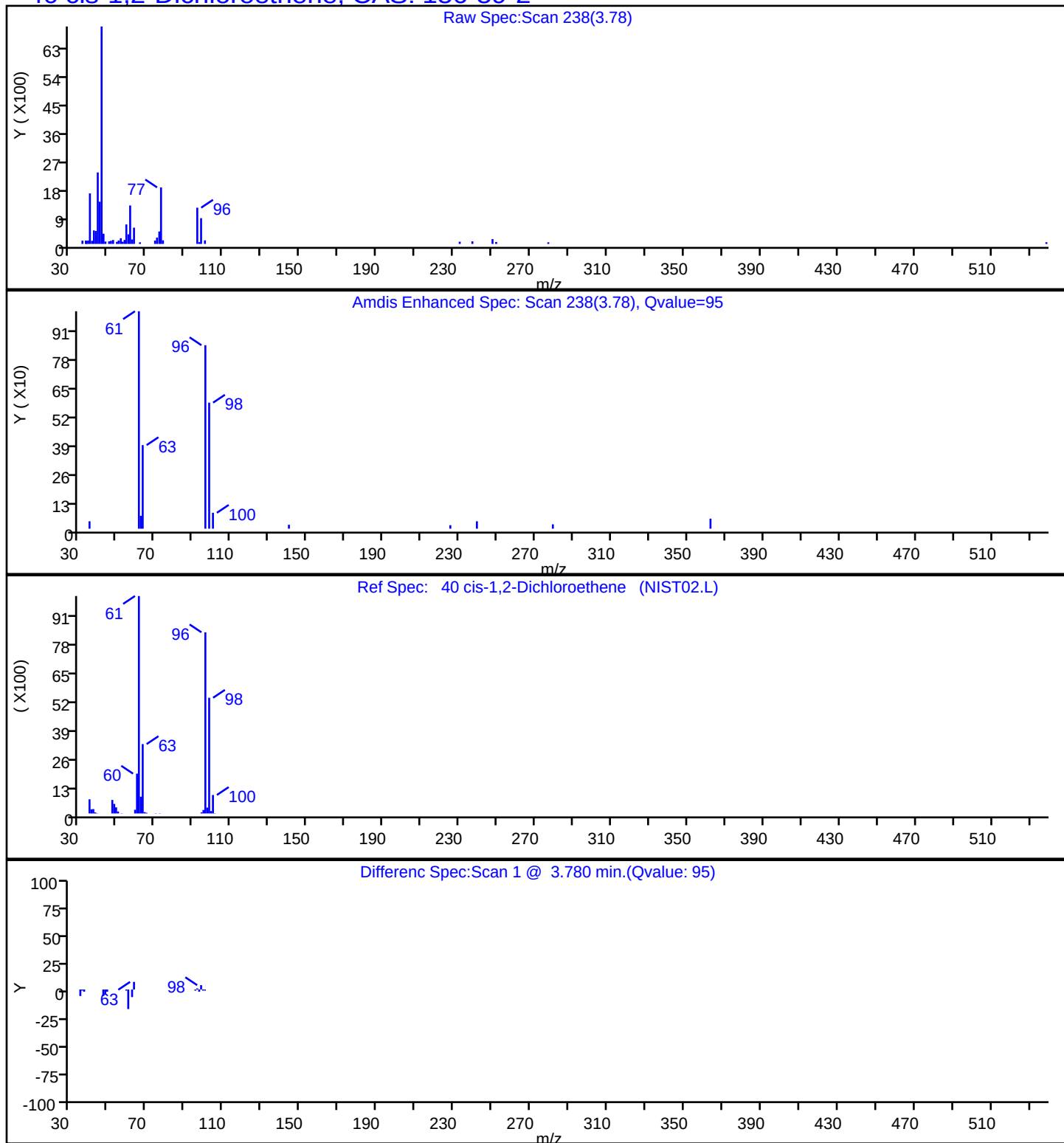
Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector MS SCAN

**40 cis-1,2-Dichloroethene, CAS: 156-59-2**



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76124.D

Injection Date: 11-Oct-2018 11:49:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-B-6

Lab Sample ID: 460-165769-6

Client ID: FSMW-8A 09272018

Operator ID:

ALS Bottle#:

10

Worklist Smp#:

11

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

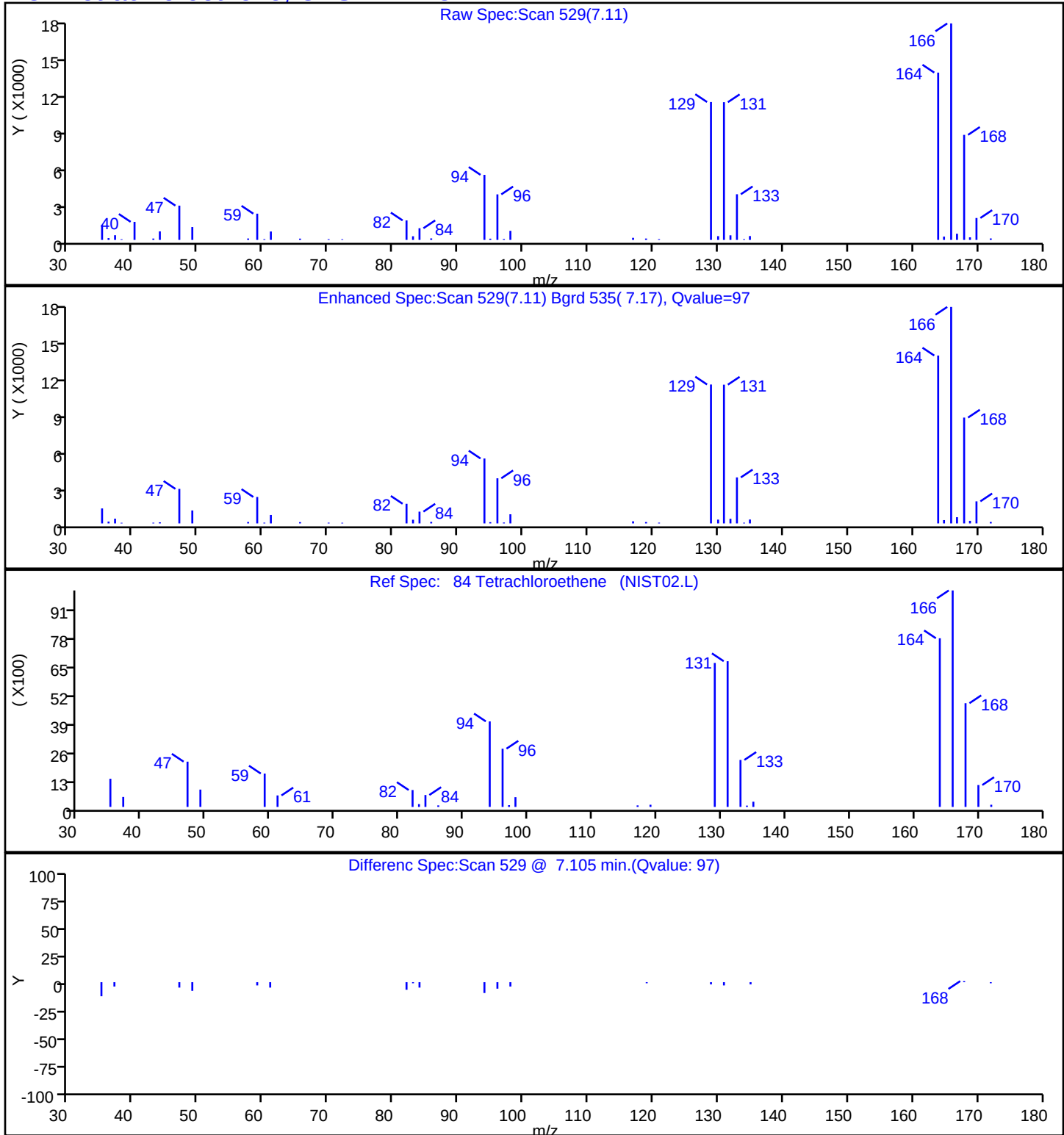
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**84 Tetrachloroethene, CAS: 127-18-4**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181011-80093.b\\J76124.D

Injection Date: 11-Oct-2018 11:49:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-B-6

Lab Sample ID: 460-165769-6

Client ID: FSMW-8A 09272018

Operator ID:

ALS Bottle#:

10

Worklist Smp#:

11

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

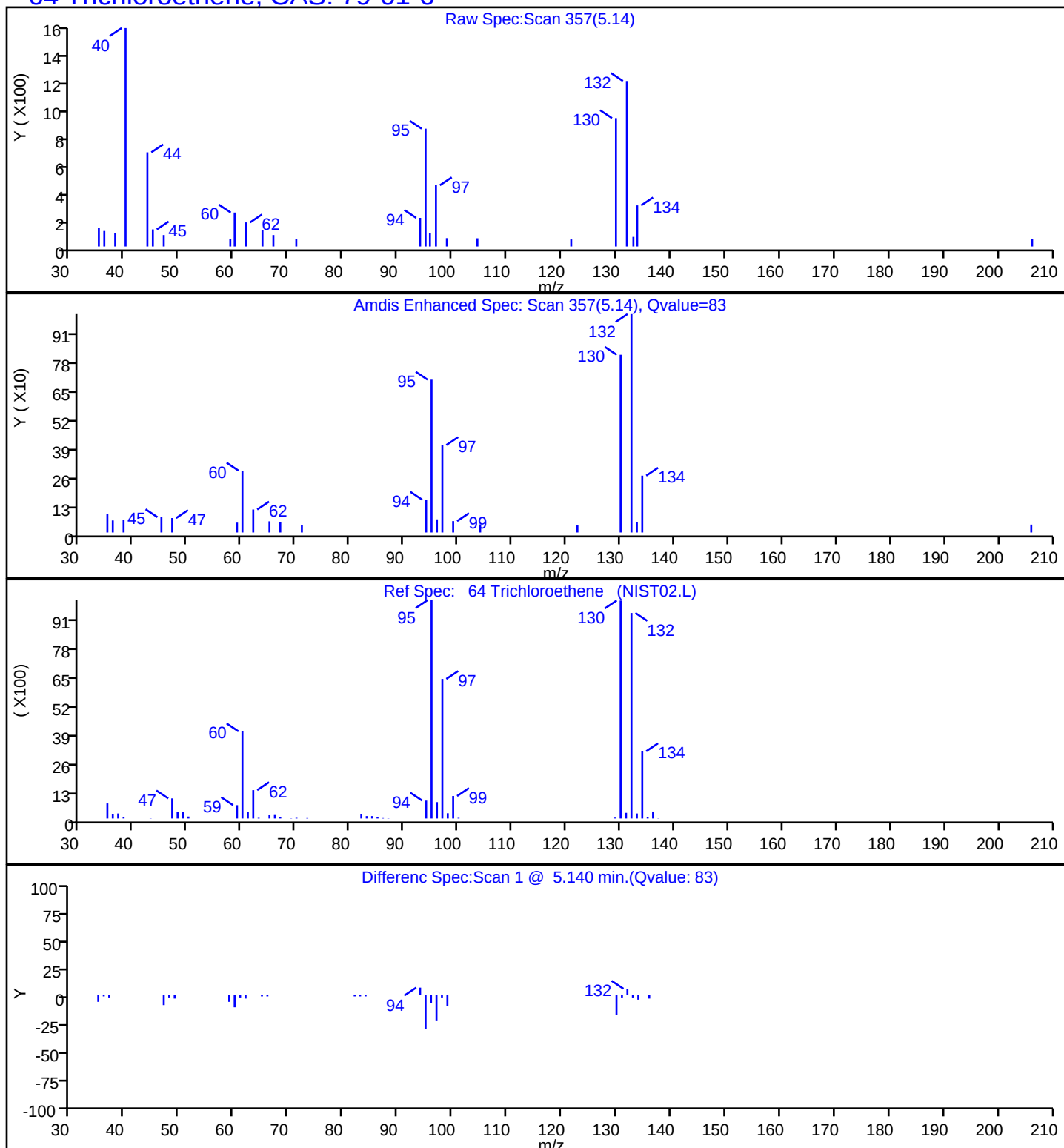
VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 64 Trichloroethene, CAS: 79-01-6



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                                |
|-------------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u>       | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                            |                                                |
| Client Sample ID: <u>FSMW-1A 09272018</u> | Lab Sample ID: <u>460-165769-7</u>             |
| Matrix: <u>Water</u>                      | Lab File ID: <u>J76060.D</u>                   |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>09/27/2018 14:20</u>        |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>10/10/2018 06:03</u>         |
| Soil Aliquot Vol: _____                   | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____                  | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                         | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>558837</u>         | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 36     |   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 140    |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.28   | J | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 24     |   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FSMW-1A 09272018 Lab Sample ID: 460-165769-7  
Matrix: Water Lab File ID: J76060.D  
Analysis Method: 8260C Date Collected: 09/27/2018 14:20  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 06:03  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 93   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 110  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76060.D  
 Lims ID: 460-165769-A-7  
 Client ID: FSMW-1A 09272018  
 Sample Type: Client  
 Inject. Date: 10-Oct-2018 06:03:30 ALS Bottle#: 24 Worklist Smp#: 25  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-A-7  
 Misc. Info.: 460-0080013-025  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:40:25 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: moroneyc

Date: 10-Oct-2018 07:52:47

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.733        | 2.732            | 0.001            | 0  | 173429   | 1000.0            |       |
| 30 trans-1,2-Dichloroethene      | 96  | 2.893        | 2.892            | 0.001            | 53 | 636      | 0.2790            |       |
| * 39 2-Butanone-d5               | 46  | 3.726        | 3.725            | 0.001            | 0  | 222795   | 250.0             |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.760        | 3.748            | 0.012            | 99 | 93346    | 35.6              |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.183        | 4.171            | 0.012            | 98 | 114887   | 55.2              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.514        | 4.513            | 0.001            | 0  | 109493   | 48.2              |       |
| * 62 Fluorobenzene               | 96  | 4.776        | 4.764            | 0.012            | 99 | 386510   | 50.0              |       |
| 64 Trichloroethene               | 95  | 5.119        | 5.107            | 0.012            | 95 | 55382    | 24.4              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.473        | 5.472            | 0.001            | 0  | 17074    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.409        | 6.397            | 0.012            | 99 | 319660   | 45.9              |       |
| 84 Tetrachloroethene             | 166 | 7.083        | 7.082            | 0.001            | 97 | 303528   | 136.1             |       |
| * 90 Chlorobenzene-d5            | 117 | 8.179        | 8.178            | 0.001            | 84 | 291904   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.651        | 9.651            | 0.000            | 98 | 102595   | 46.6              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.622       | 10.621           | 0.001            | 94 | 166026   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76060.D

Injection Date: 10-Oct-2018 06:03:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-A-7

Lab Sample ID: 460-165769-7

Worklist Smp#: 25

Client ID: FSMW-1A 09272018

Purge Vol: 5.000 mL

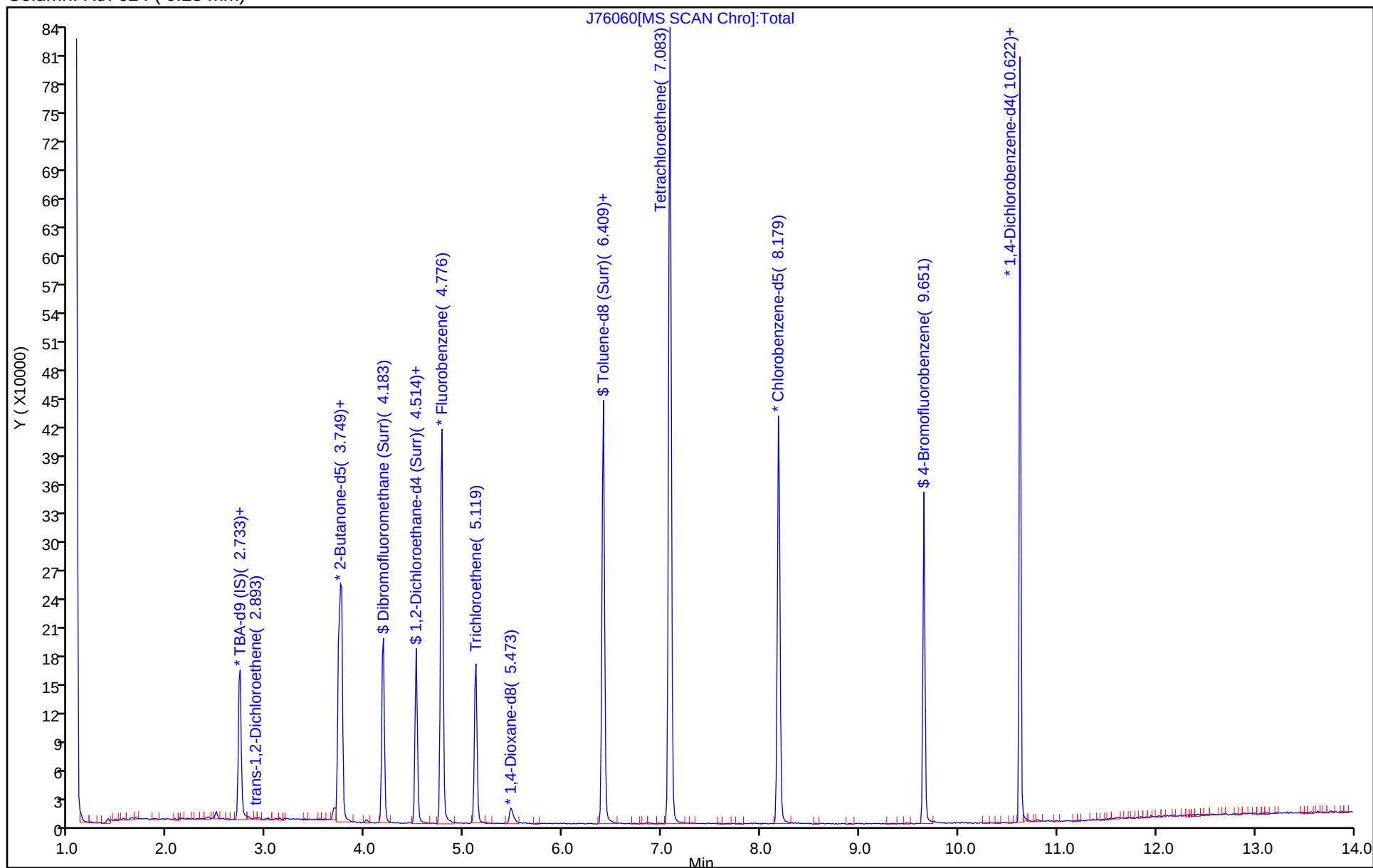
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76060.D

Injection Date: 10-Oct-2018 06:03:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-7

Lab Sample ID: 460-165769-7

Client ID: FSMW-1A 09272018

Operator ID:

ALS Bottle#:

24

Worklist Smp#:

25

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

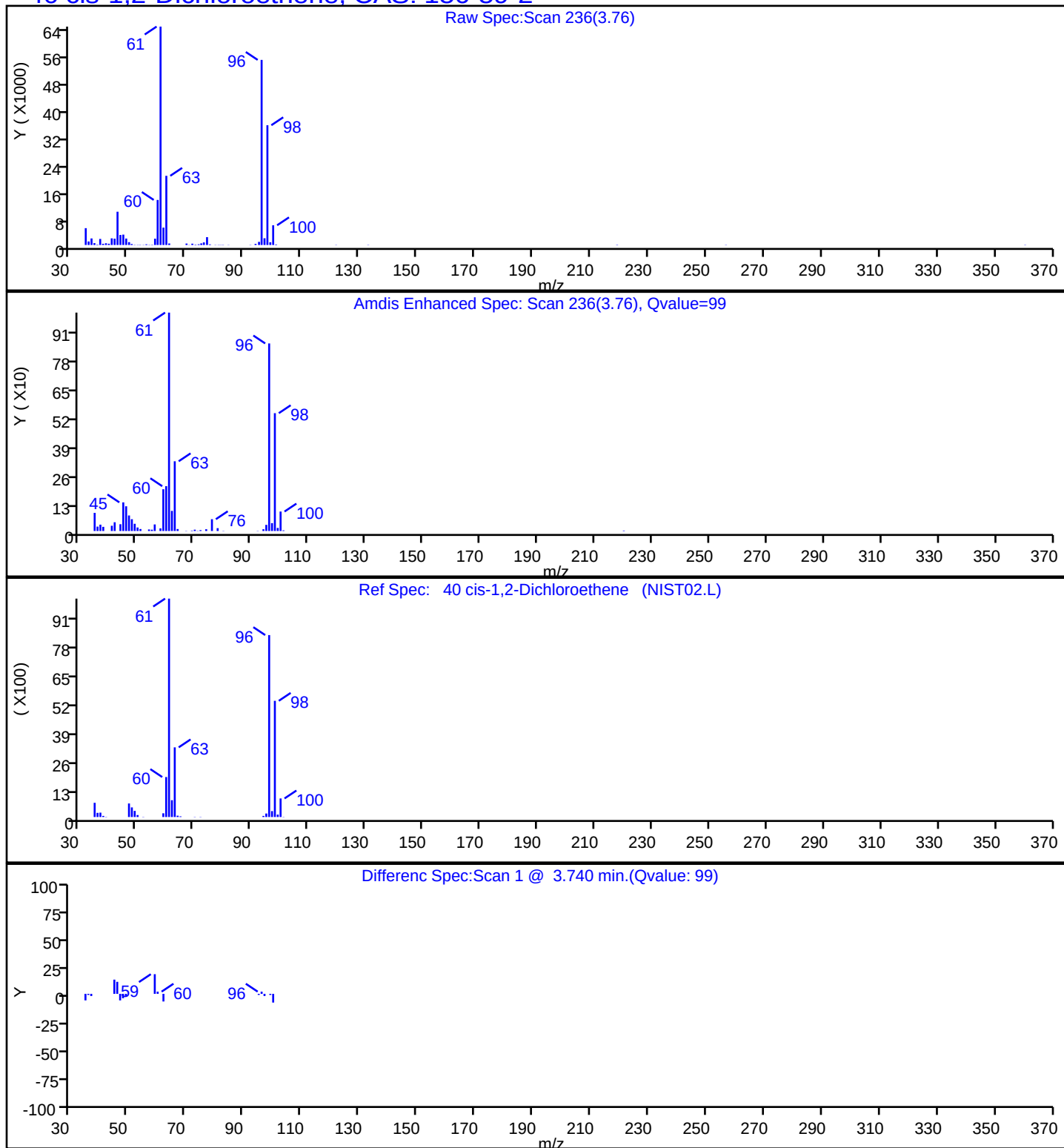
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**40 cis-1,2-Dichloroethene, CAS: 156-59-2**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76060.D

Injection Date: 10-Oct-2018 06:03:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-7

Lab Sample ID: 460-165769-7

Client ID: FSMW-1A 09272018

Operator ID:

ALS Bottle#:

24

Worklist Smp#:

25

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

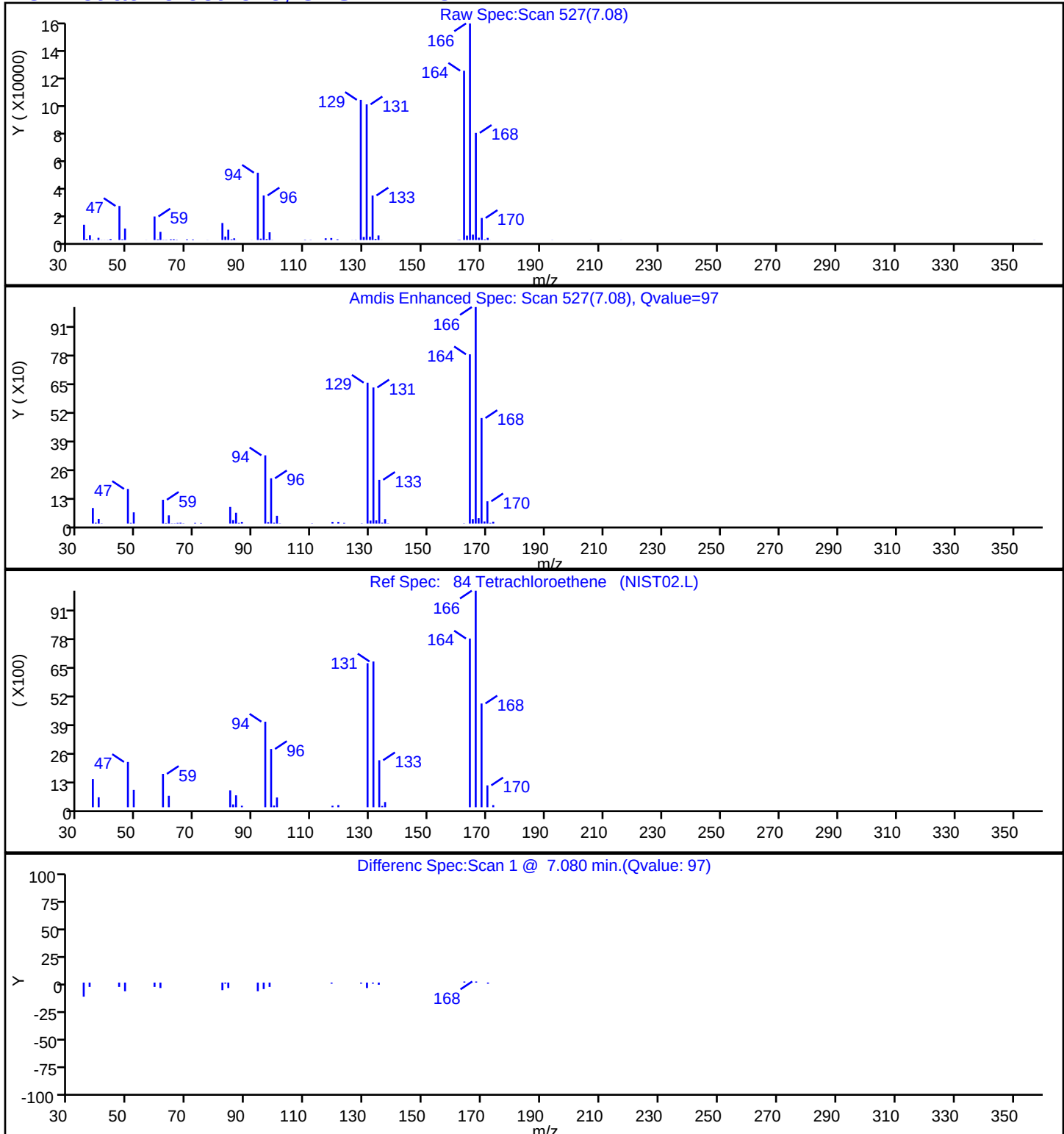
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**84 Tetrachloroethene, CAS: 127-18-4**



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76060.D

Injection Date: 10-Oct-2018 06:03:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-7

Lab Sample ID: 460-165769-7

Client ID: FSMW-1A 09272018

Operator ID:

ALS Bottle#:

24

Worklist Smp#:

25

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

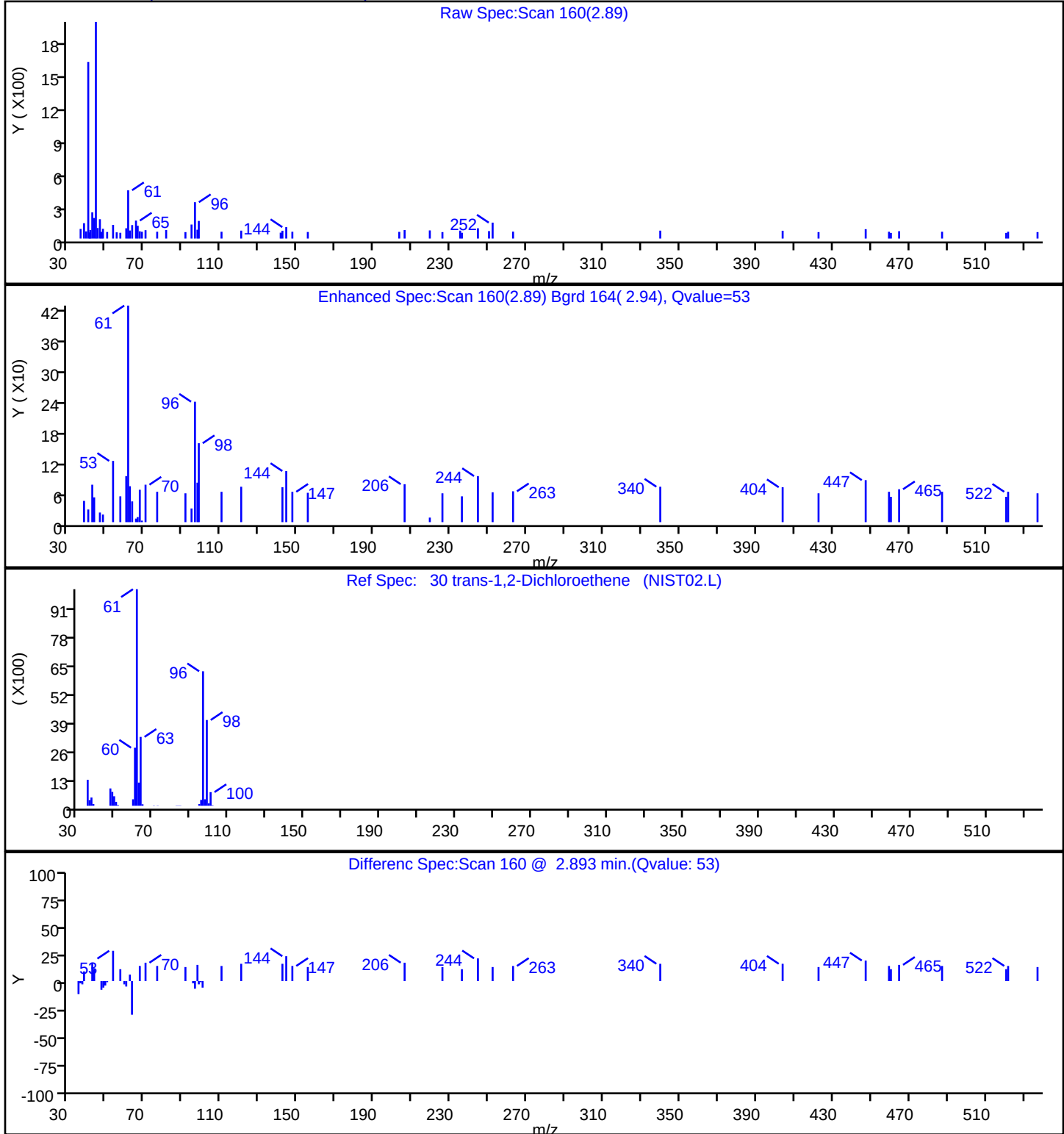
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**30 trans-1,2-Dichloroethene, CAS: 156-60-5**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76060.D

Injection Date: 10-Oct-2018 06:03:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-7

Lab Sample ID: 460-165769-7

Client ID: FSMW-1A 09272018

Operator ID:

ALS Bottle#:

24

Worklist Smp#:

25

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

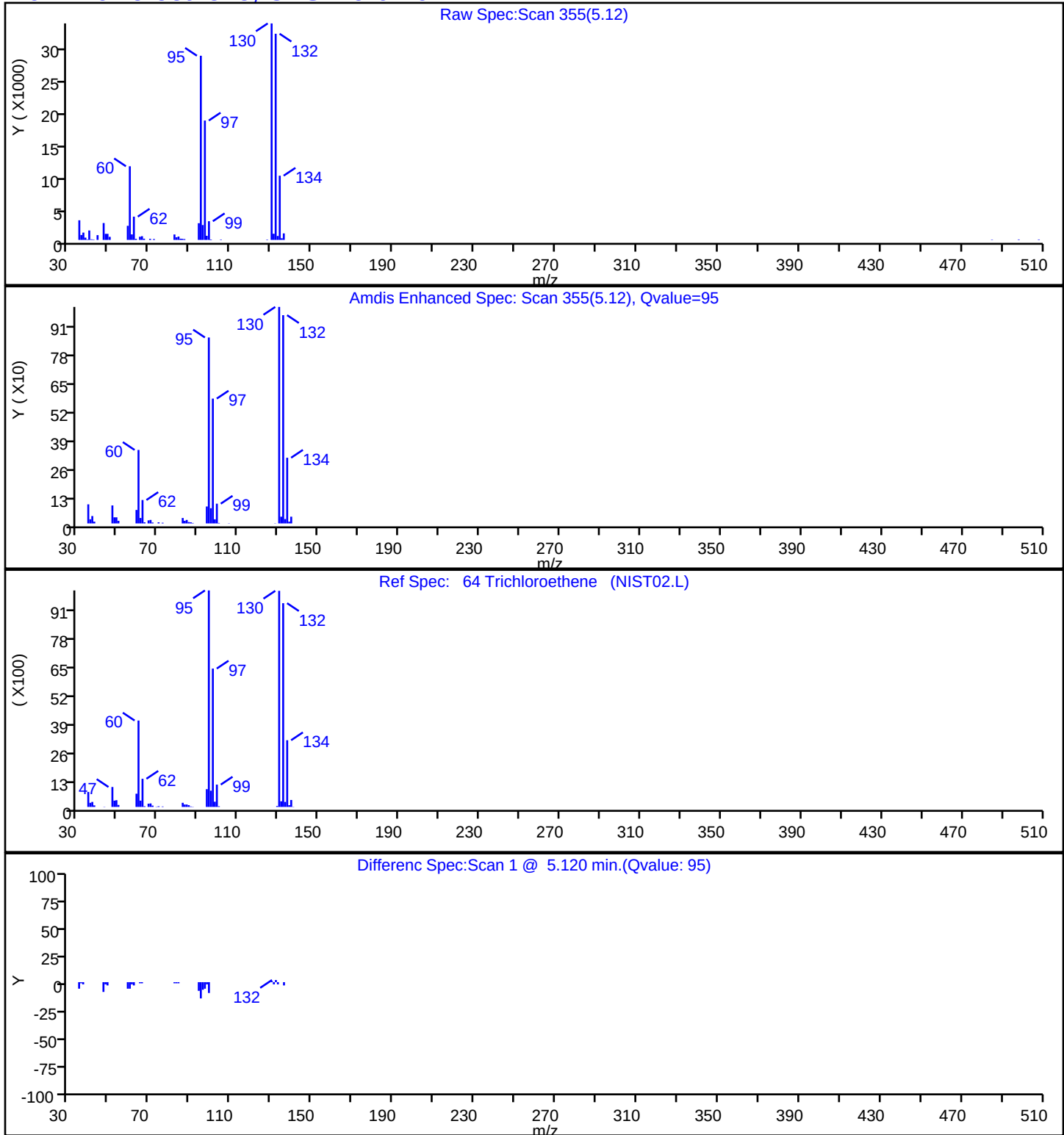
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**64 Trichloroethene, CAS: 79-01-6**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76060.D

Injection Date: 10-Oct-2018 06:03:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-7

Lab Sample ID: 460-165769-7

Client ID: FSMW-1A 09272018

Operator ID:

ALS Bottle#:

24

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

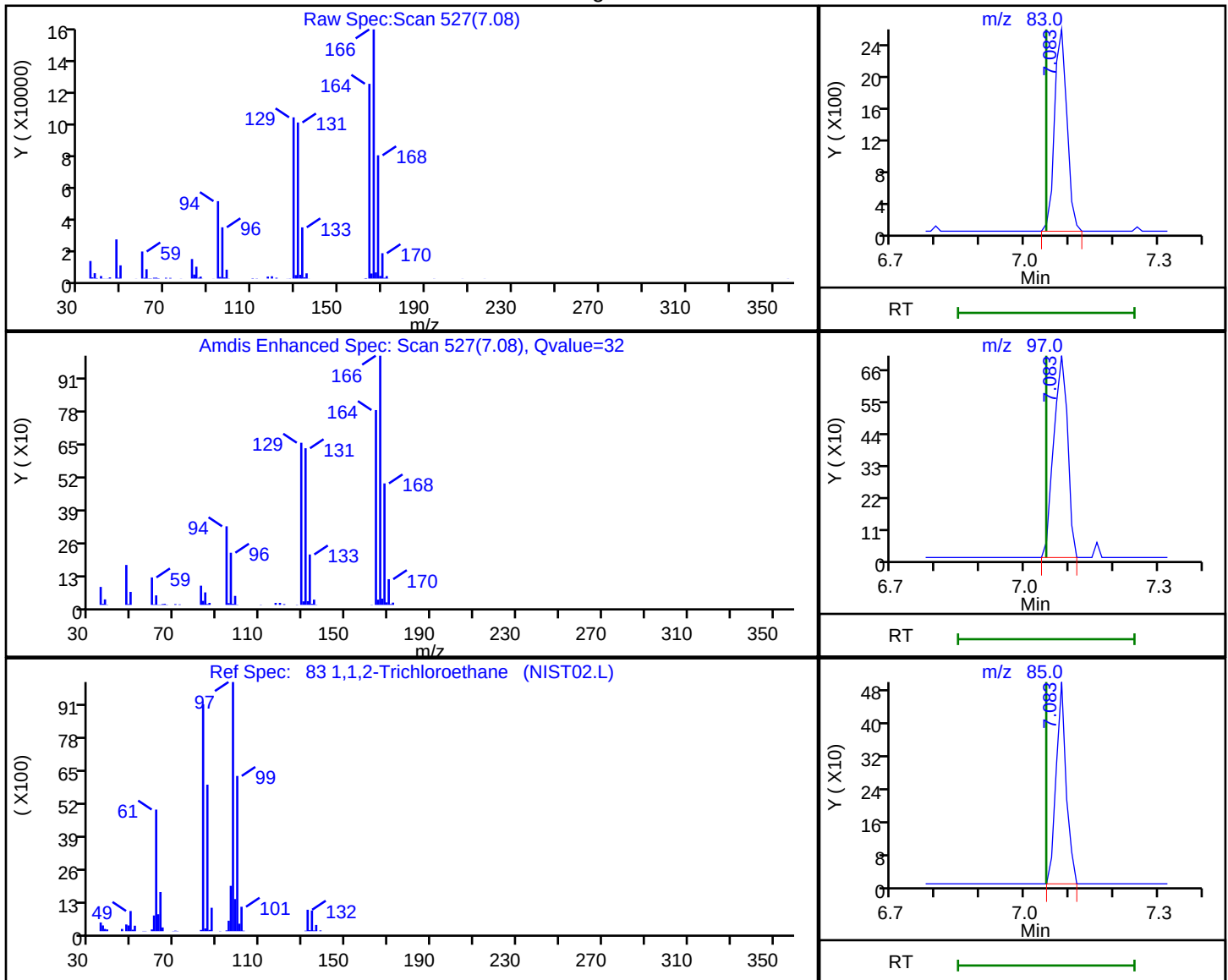
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 83 1,1,2-Trichloroethane, CAS: 79-00-5

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.08 | 83.00 | 4967     | 2.550830 |
| 7.08 | 97.00 | 1550     |          |
| 7.08 | 85.00 | 787      |          |

Reviewer: moroneyc, 10-Oct-2018 07:52:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76060.D

Injection Date: 10-Oct-2018 06:03:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-7

Lab Sample ID: 460-165769-7

Client ID: FSMW-1A 09272018

Operator ID:

ALS Bottle#:

24

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

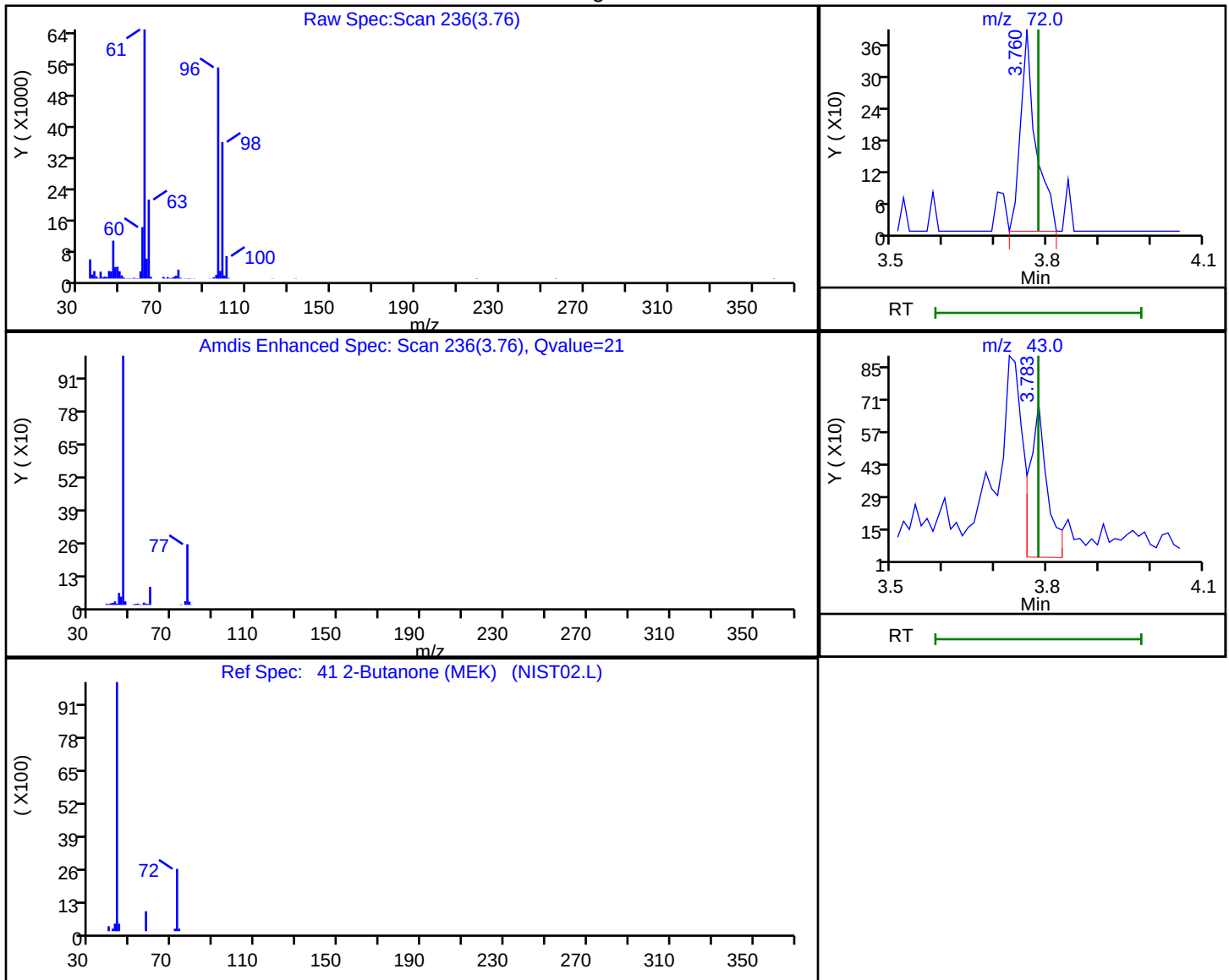
Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector: MS SCAN

## 41 2-Butanone (MEK), CAS: 78-93-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.76 | 72.00 | 790      | 3.430037 |
| 3.78 | 43.00 | 1595     |          |

Reviewer: moroneyc, 10-Oct-2018 07:52:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                       |                                                |
|---------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u>   | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                        |                                                |
| Client Sample ID: <u>EB2 09272018</u> | Lab Sample ID: <u>460-165769-8</u>             |
| Matrix: <u>Water</u>                  | Lab File ID: <u>J76046.D</u>                   |
| Analysis Method: <u>8260C</u>         | Date Collected: <u>09/27/2018 11:30</u>        |
| Sample wt/vol: <u>5(mL)</u>           | Date Analyzed: <u>10/09/2018 23:47</u>         |
| Soil Aliquot Vol: _____               | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____              | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                     | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>558837</u>     | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 2.3    | J | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 6.6    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.25   | U | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 1.6    | J | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EB2 09272018 Lab Sample ID: 460-165769-8  
Matrix: Water Lab File ID: J76046.D  
Analysis Method: 8260C Date Collected: 09/27/2018 11:30  
Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2018 23:47  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 89   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 106  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 88   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76046.D  
 Lims ID: 460-165769-B-8  
 Client ID: EB2 09272018  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 23:47:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-B-8  
 Misc. Info.: 460-0080013-011  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:40:25 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: moroneyc

Date: 10-Oct-2018 07:49:05

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| 18 Acetone                       | 43  | 2.401        | 2.401            | 0.000            | 86 | 4095     | 6.57              |       |
| * 27 TBA-d9 (IS)                 | 65  | 2.721        | 2.732            | -0.011           | 0  | 184412   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.726        | 3.725            | 0.001            | 0  | 240225   | 250.0             |       |
| 41 2-Butanone (MEK)              | 72  | 3.783        | 3.782            | 0.001            | 96 | 582      | 2.34              |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.171        | 4.171            | 0.000            | 97 | 113283   | 52.8              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513        | 4.513            | 0.000            | 0  | 108389   | 46.2              |       |
| * 62 Fluorobenzene               | 96  | 4.765        | 4.764            | 0.001            | 99 | 398834   | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472        | 5.472            | 0.000            | 0  | 18015    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.397        | 6.397            | 0.000            | 99 | 328947   | 43.8              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.178        | 8.178            | 0.000            | 83 | 314709   | 50.0              |       |
| 94 m-Xylene & p-Xylene           | 106 | 8.475        | 8.475            | 0.000            | 0  | 2253     | 0.9880            |       |
| 96 o-Xylene                      | 106 | 9.000        | 9.000            | 0.000            | 91 | 662      | 0.5851            |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.651        | 9.651            | 0.000            | 96 | 105262   | 44.4              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.621       | 10.621           | 0.000            | 93 | 169831   | 50.0              |       |
| S 132 Xylenes, Total             | 100 |              |                  |                  | 0  |          | 1.57              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76046.D

Injection Date: 09-Oct-2018 23:47:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-B-8

Lab Sample ID: 460-165769-8

Worklist Smp#: 11

Client ID: EB2 09272018

Purge Vol: 5.000 mL

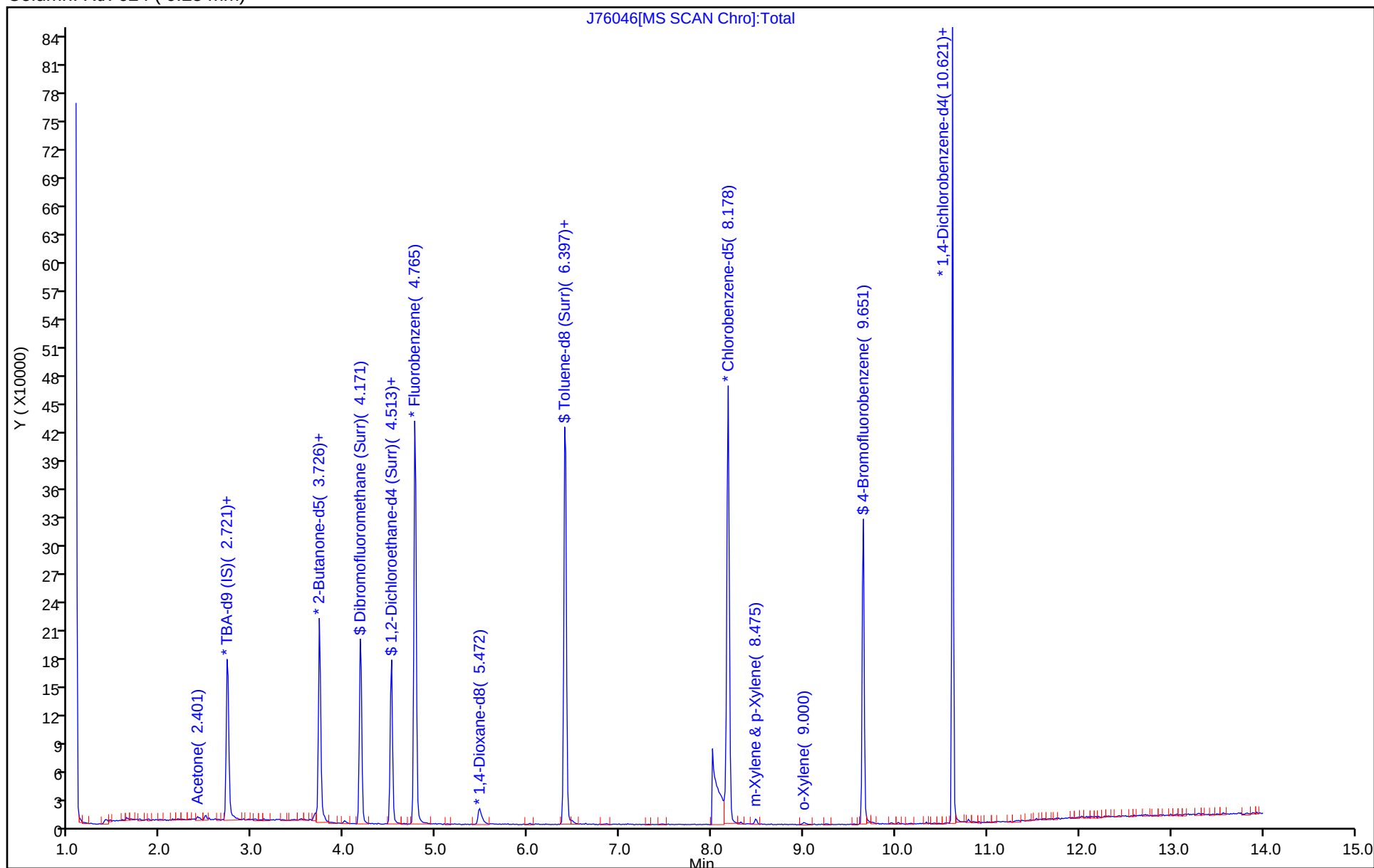
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)





## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76046.D

Injection Date: 09-Oct-2018 23:47:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-B-8

Lab Sample ID: 460-165769-8

Client ID: EB2 09272018

Operator ID:

ALS Bottle#: 10 Worklist Smp#: 11

Purge Vol: 5.000 mL

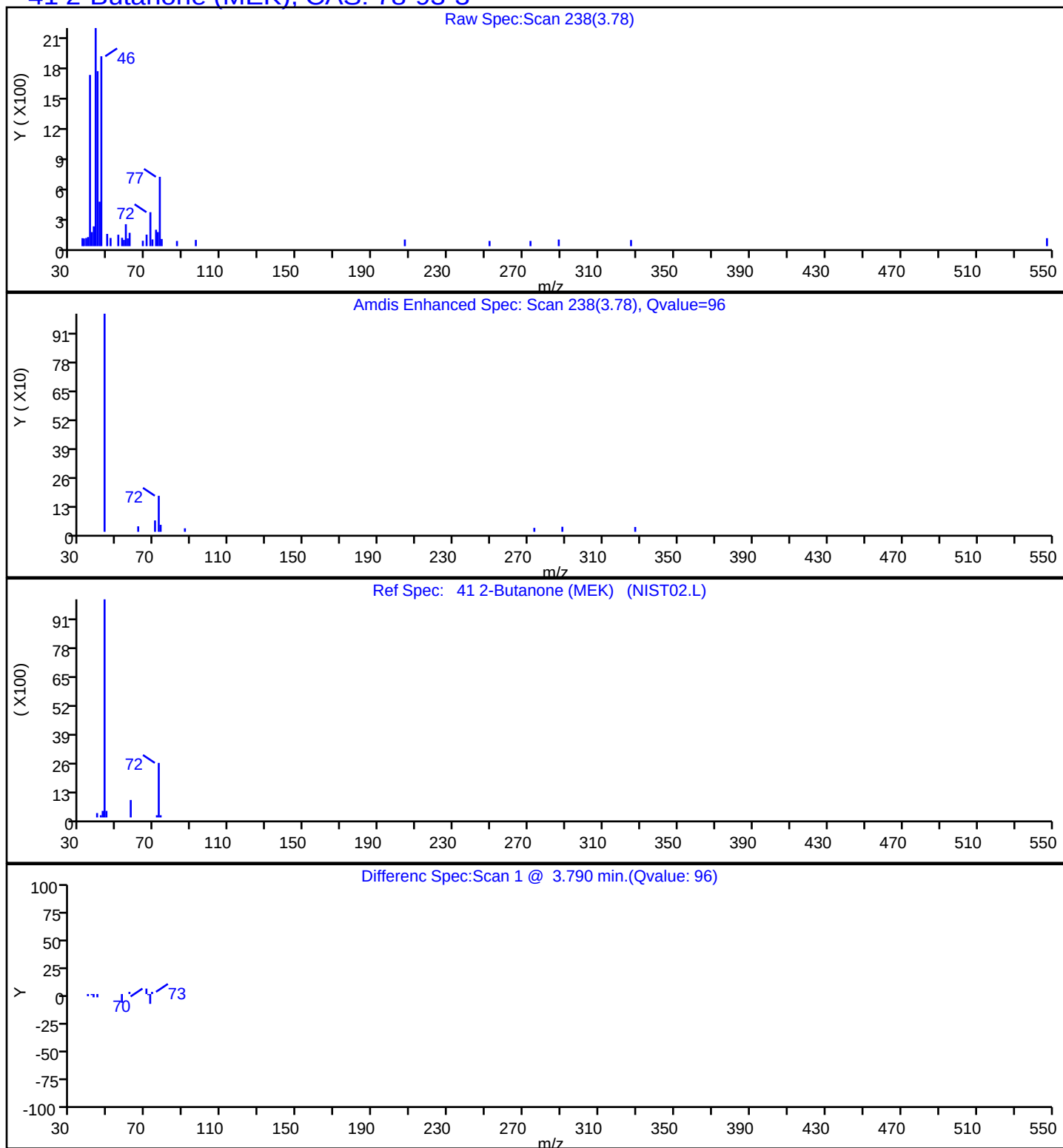
Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector MS SCAN

**41 2-Butanone (MEK), CAS: 78-93-3**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76046.D

Injection Date: 09-Oct-2018 23:47:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-B-8

Lab Sample ID: 460-165769-8

Client ID: EB2 09272018

Operator ID:

ALS Bottle#:

10

Worklist Smp#:

11

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

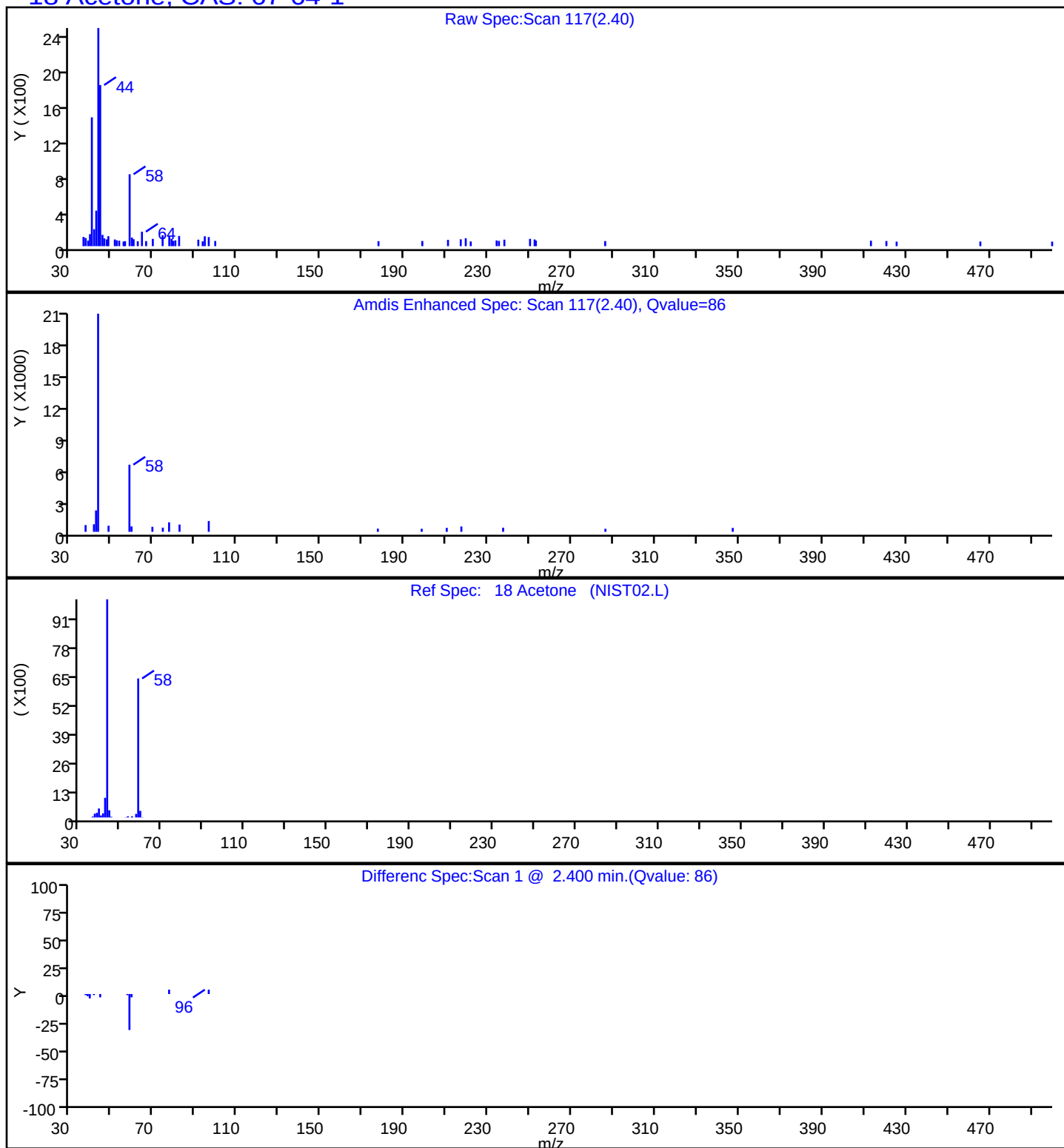
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**18 Acetone, CAS: 67-64-1**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76046.D

Injection Date: 09-Oct-2018 23:47:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-B-8

Lab Sample ID: 460-165769-8

Client ID: EB2 09272018

Operator ID:

ALS Bottle#:

10

Worklist Smp#:

11

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

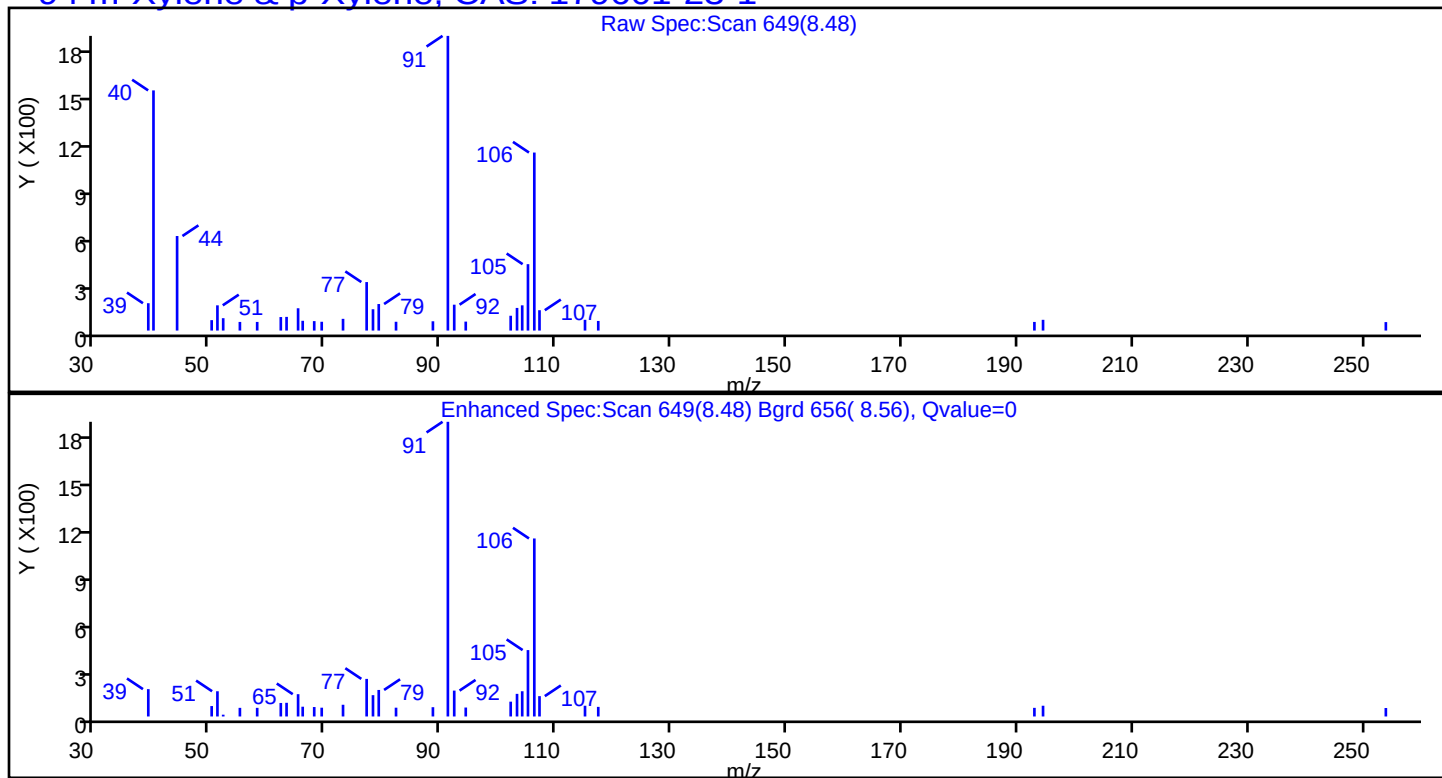
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**94 m-Xylene & p-Xylene, CAS: 179601-23-1**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76046.D

Injection Date: 09-Oct-2018 23:47:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-B-8

Lab Sample ID: 460-165769-8

Client ID: EB2 09272018

Operator ID:

ALS Bottle#:

10

Worklist Smp#:

11

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

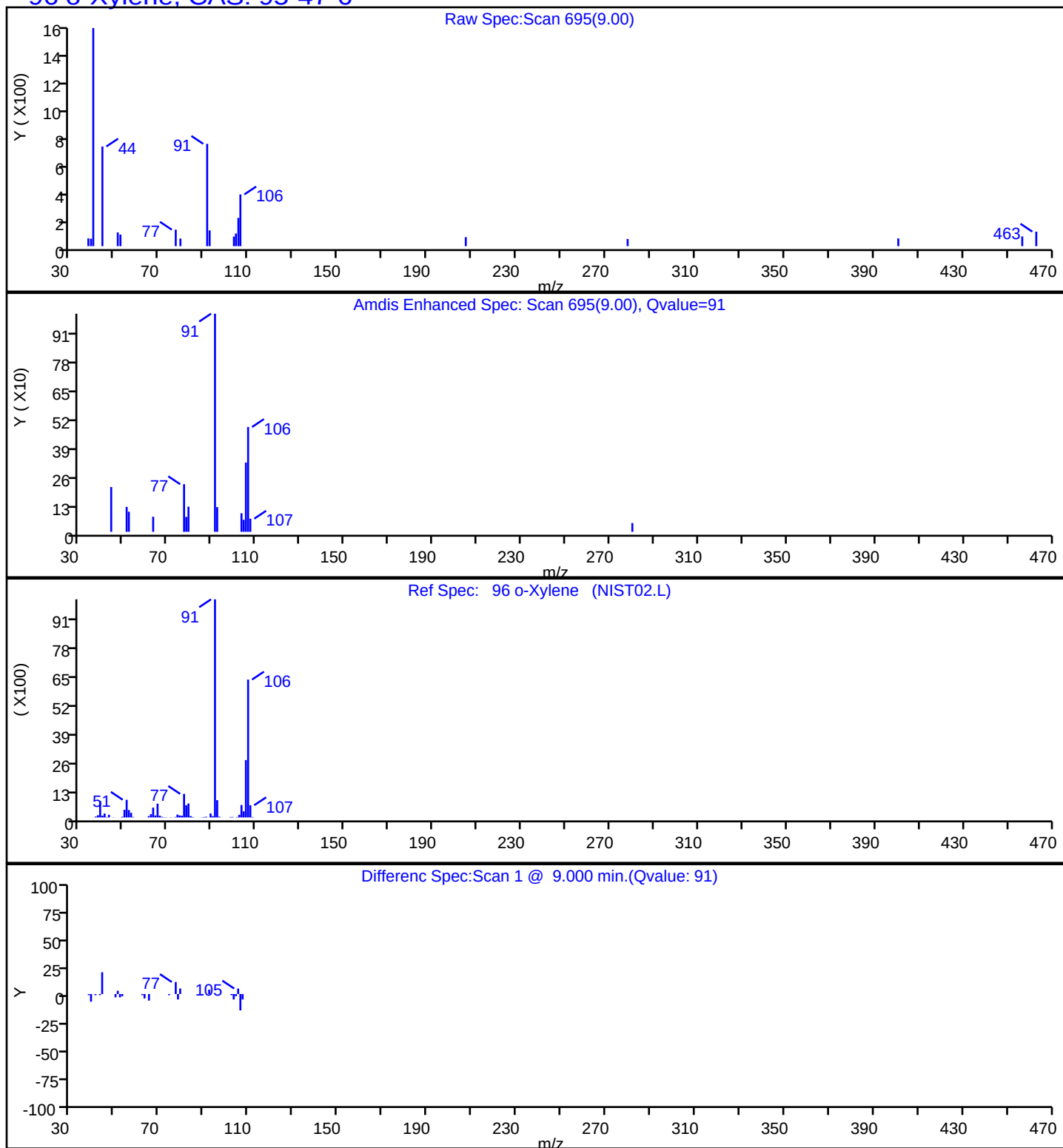
VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 96 o-Xylene, CAS: 95-47-6



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                       |                                                |
|---------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u>   | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                        |                                                |
| Client Sample ID: <u>FB2 09272018</u> | Lab Sample ID: <u>460-165769-9</u>             |
| Matrix: <u>Water</u>                  | Lab File ID: <u>J76047.D</u>                   |
| Analysis Method: <u>8260C</u>         | Date Collected: <u>09/27/2018 13:00</u>        |
| Sample wt/vol: <u>5(mL)</u>           | Date Analyzed: <u>10/10/2018 00:14</u>         |
| Soil Aliquot Vol: _____               | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____              | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                     | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>558837</u>     | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.25   | U | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 1.1    | J | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FB2 09272018 Lab Sample ID: 460-165769-9  
Matrix: Water Lab File ID: J76047.D  
Analysis Method: 8260C Date Collected: 09/27/2018 13:00  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 00:14  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 96   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 109  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76047.D  
 Lims ID: 460-165769-A-9  
 Client ID: FB2 09272018  
 Sample Type: Client  
 Inject. Date: 10-Oct-2018 00:14:30 ALS Bottle#: 11 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-A-9  
 Misc. Info.: 460-0080013-012  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:40:25 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: moroneyc

Date: 10-Oct-2018 07:49:21

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|-----|----------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.722        | 2.732            | -0.010           | 0   | 188600   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.726        | 3.725            | 0.001            | 0   | 244690   | 250.0             |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.171        | 4.171            | 0.000            | 97  | 114812   | 54.7              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.514        | 4.513            | 0.001            | 0   | 108425   | 47.3              |       |
| * 62 Fluorobenzene               | 96  | 4.765        | 4.764            | 0.001            | 99  | 389834   | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.473        | 5.472            | 0.001            | 0   | 17980    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.398        | 6.397            | 0.001            | 100 | 320312   | 46.5              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.179        | 8.178            | 0.001            | 84  | 288823   | 50.0              |       |
| 94 m-Xylene & p-Xylene           | 106 | 8.476        | 8.475            | 0.001            | 0   | 880      | 0.6455            |       |
| 96 o-Xylene                      | 106 | 9.001        | 9.000            | 0.001            | 7   | 238      | 0.4776            |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.652        | 9.651            | 0.001            | 97  | 104738   | 48.1              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.622       | 10.621           | 0.001            | 92  | 165529   | 50.0              |       |
| S 132 Xylenes, Total             | 100 |              |                  |                  | 0   |          | 1.12              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76047.D

Injection Date: 10-Oct-2018 00:14:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-A-9

Lab Sample ID: 460-165769-9

Worklist Smp#: 12

Client ID: FB2 09272018

Purge Vol: 5.000 mL

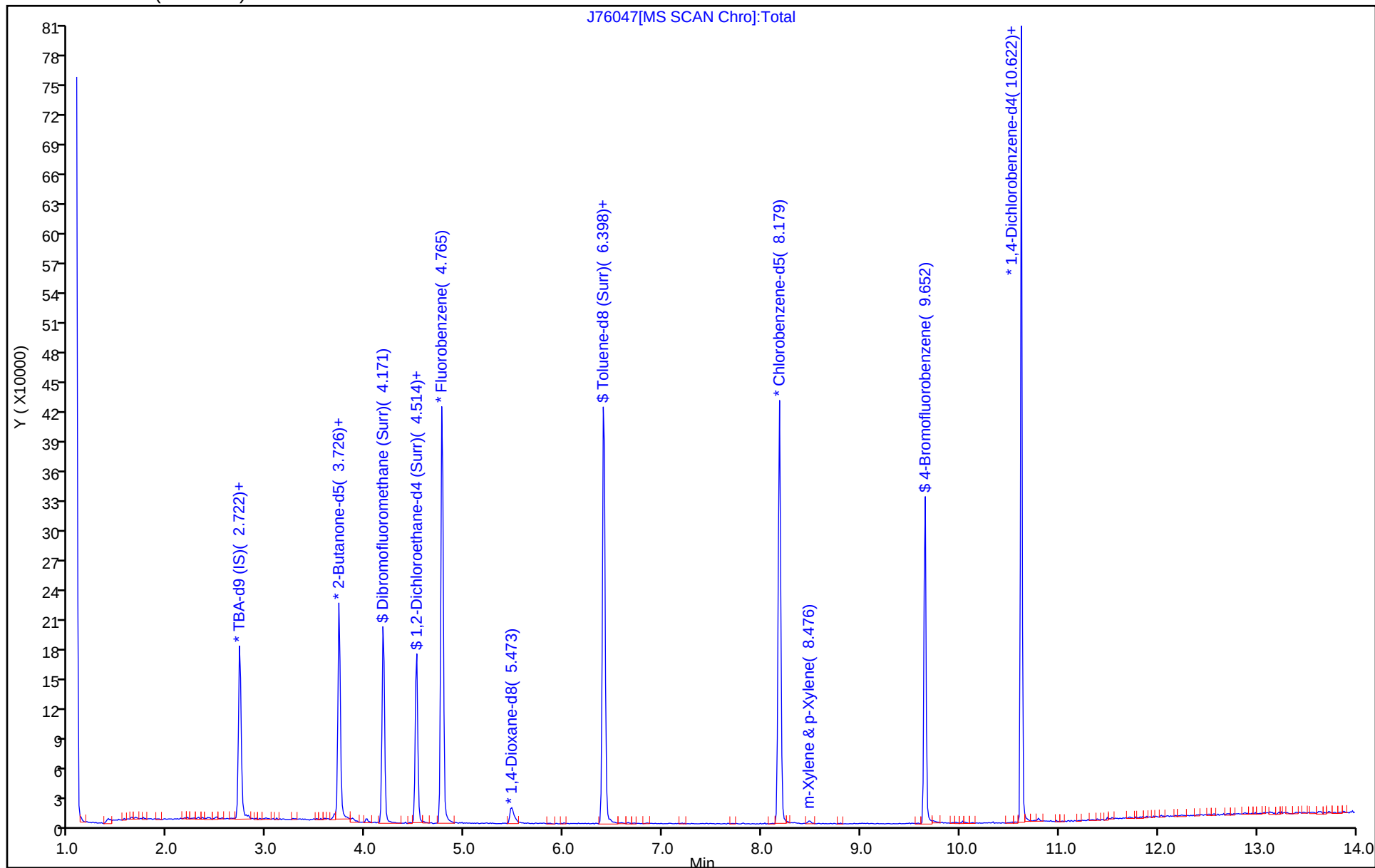
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)





## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76047.D

Injection Date: 10-Oct-2018 00:14:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-9

Lab Sample ID: 460-165769-9

Client ID: FB2 09272018

Operator ID:

ALS Bottle#:

11

Worklist Smp#:

12

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

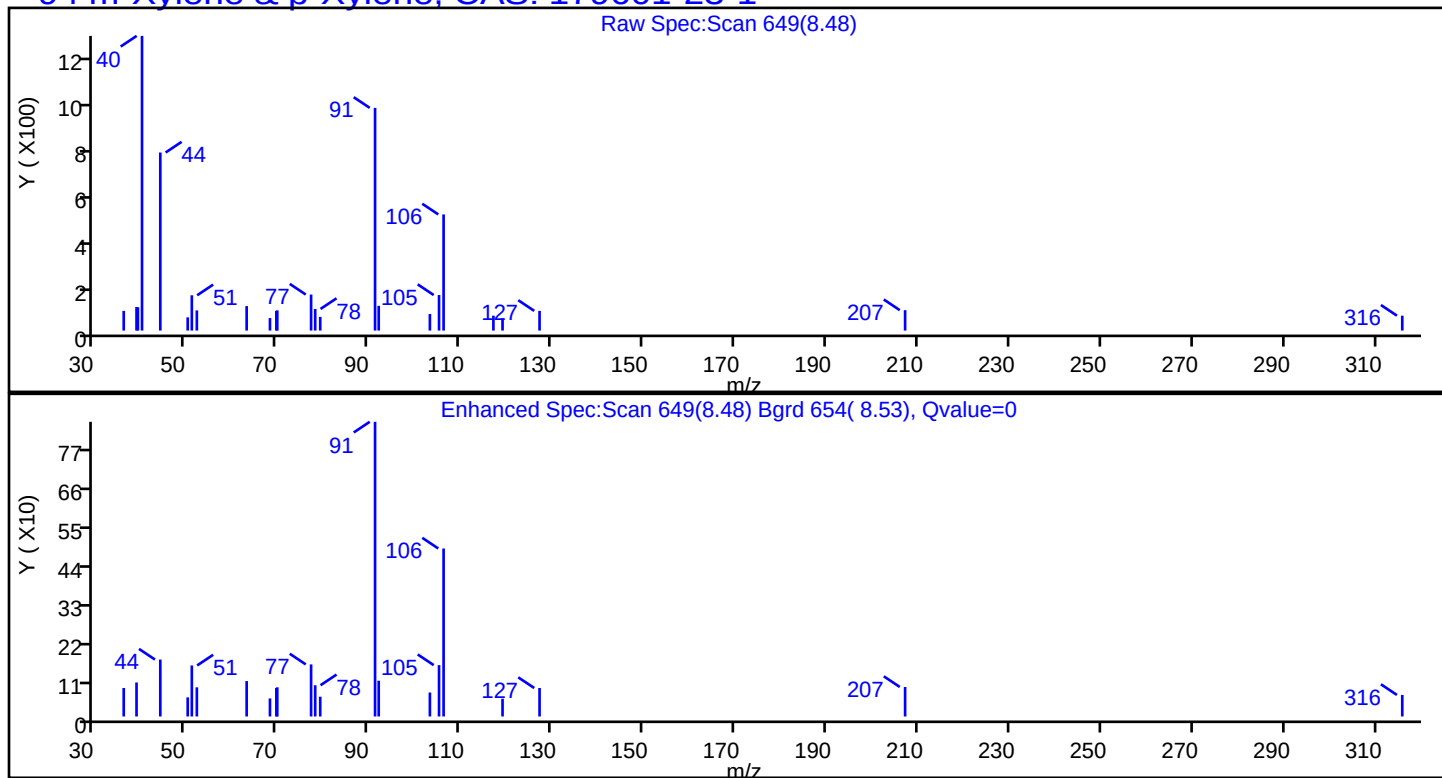
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**94 m-Xylene & p-Xylene, CAS: 179601-23-1**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76047.D

Injection Date: 10-Oct-2018 00:14:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-9

Lab Sample ID: 460-165769-9

Client ID: FB2 09272018

Operator ID:

ALS Bottle#: 11 Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

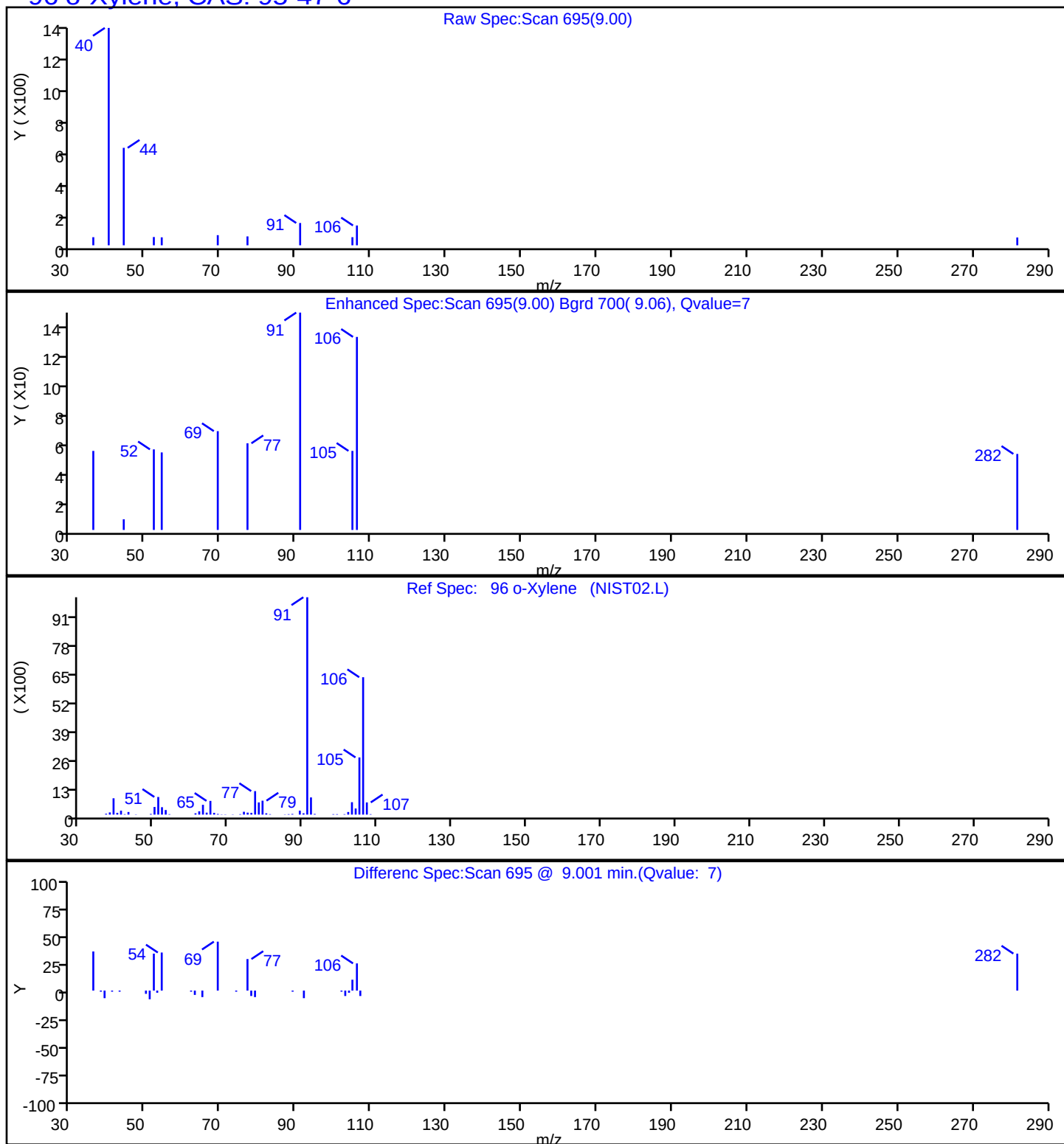
Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

## 96 o-Xylene, CAS: 95-47-6



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                                |
|-------------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u>       | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                            |                                                |
| Client Sample ID: <u>FSMW-4A 09282018</u> | Lab Sample ID: <u>460-165769-10</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>J76061.D</u>                   |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>09/28/2018 11:55</u>        |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>10/10/2018 06:30</u>         |
| Soil Aliquot Vol: _____                   | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____                  | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                         | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>558837</u>         | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.40   | J | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 51     |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.49   | J | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FSMW-4A 09282018 Lab Sample ID: 460-165769-10  
Matrix: Water Lab File ID: J76061.D  
Analysis Method: 8260C Date Collected: 09/28/2018 11:55  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 06:30  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 95   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 111  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 91   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76061.D  
 Lims ID: 460-165769-A-10  
 Client ID: FSMW-4A 09282018  
 Sample Type: Client  
 Inject. Date: 10-Oct-2018 06:30:30 ALS Bottle#: 25 Worklist Smp#: 26  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-A-10  
 Misc. Info.: 460-0080013-026  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:40:25 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: moroneyc

Date: 10-Oct-2018 07:53:10

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|-----|----------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.732        | 2.732            | 0.000            | 0   | 178446   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.725        | 3.725            | 0.000            | 0   | 233458   | 250.0             |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.760        | 3.748            | 0.012            | 26  | 1026     | 0.3976            |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.182        | 4.171            | 0.011            | 98  | 113947   | 55.6              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513        | 4.513            | 0.000            | 0   | 109682   | 49.0              |       |
| * 62 Fluorobenzene               | 96  | 4.776        | 4.764            | 0.012            | 99  | 380830   | 50.0              |       |
| 64 Trichloroethene               | 95  | 5.118        | 5.107            | 0.011            | 93  | 1105     | 0.4935            |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472        | 5.472            | 0.000            | 0   | 16389    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.408        | 6.397            | 0.011            | 100 | 315646   | 45.4              |       |
| 84 Tetrachloroethene             | 166 | 7.082        | 7.082            | 0.000            | 97  | 113721   | 51.0              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.178        | 8.178            | 0.000            | 84  | 291798   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.651        | 9.651            | 0.000            | 97  | 104978   | 47.7              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.621       | 10.621           | 0.000            | 93  | 165502   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76061.D

Injection Date: 10-Oct-2018 06:30:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-A-10

Lab Sample ID: 460-165769-10

Worklist Smp#: 26

Client ID: FSMW-4A 09282018

Purge Vol: 5.000 mL

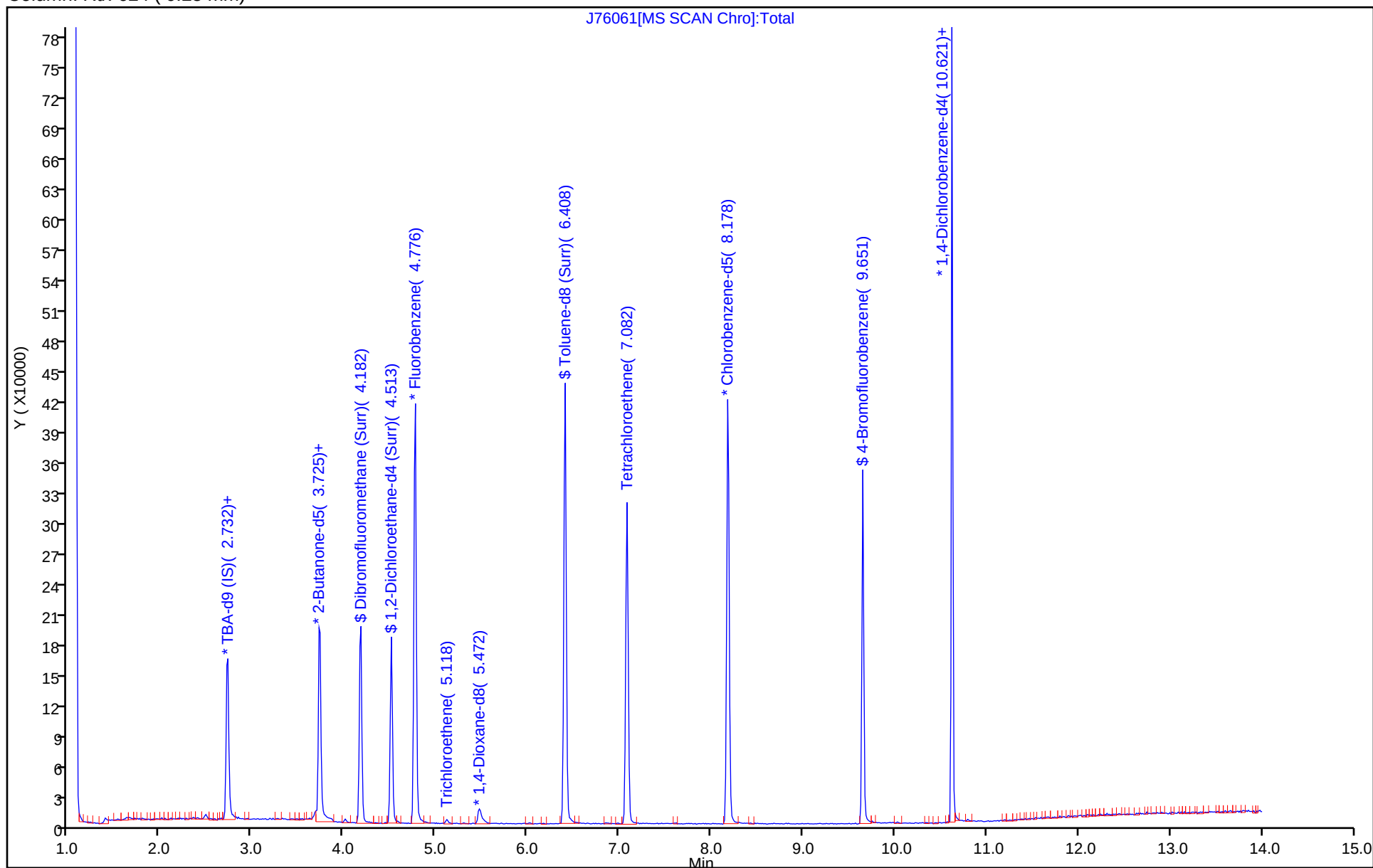
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76061.D

Injection Date: 10-Oct-2018 06:30:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-10

Lab Sample ID: 460-165769-10

Client ID: FSMW-4A 09282018

Operator ID:

ALS Bottle#:

25

Worklist Smp#:

26

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

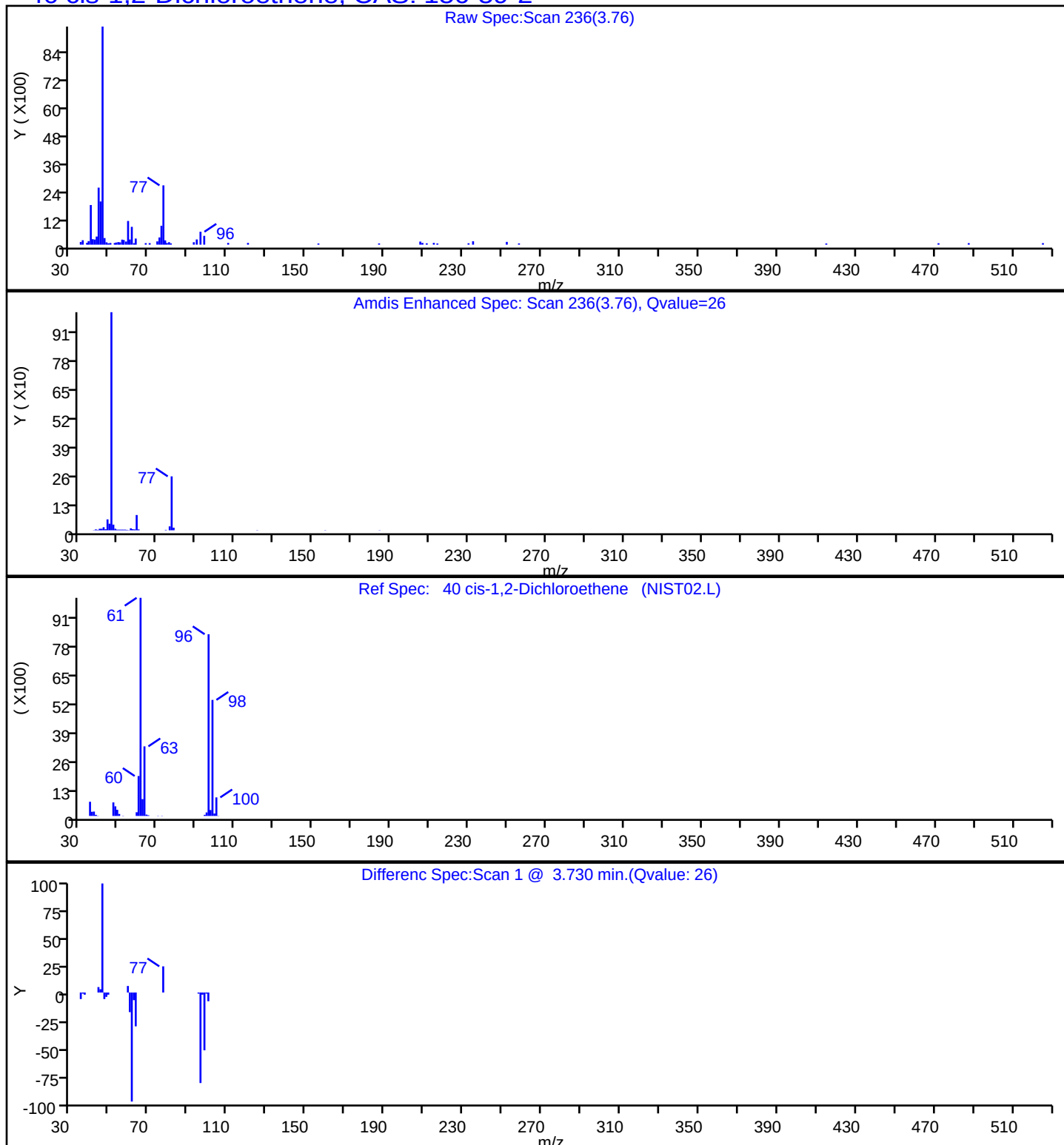
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**40 cis-1,2-Dichloroethene, CAS: 156-59-2**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76061.D

Injection Date: 10-Oct-2018 06:30:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-10

Lab Sample ID: 460-165769-10

Client ID: FSMW-4A 09282018

Operator ID:

ALS Bottle#:

25

Worklist Smp#:

26

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

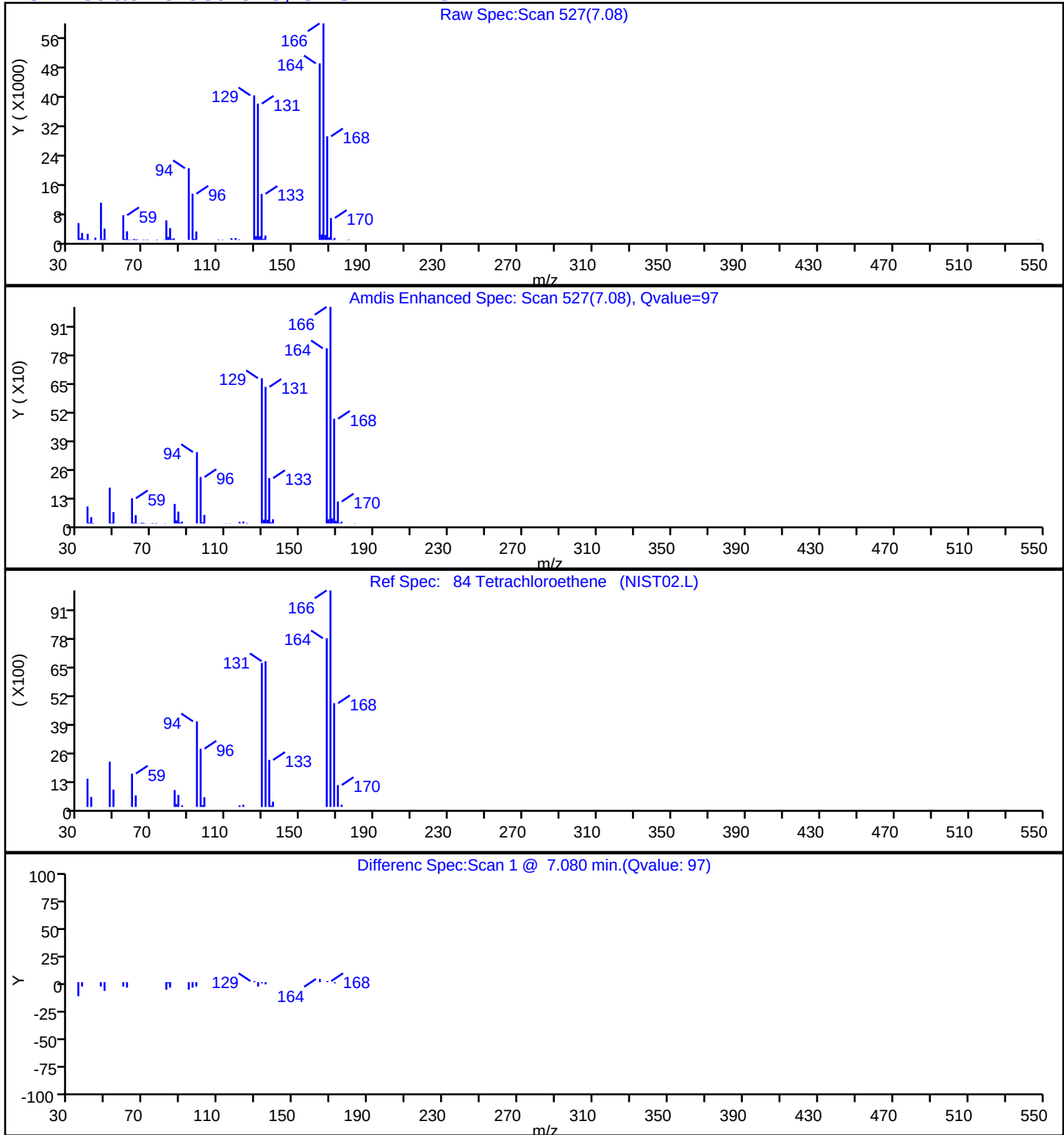
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**84 Tetrachloroethene, CAS: 127-18-4**



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76061.D

Injection Date: 10-Oct-2018 06:30:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-10

Lab Sample ID: 460-165769-10

Client ID: FSMW-4A 09282018

Operator ID:

ALS Bottle#:

25

Worklist Smp#:

26

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

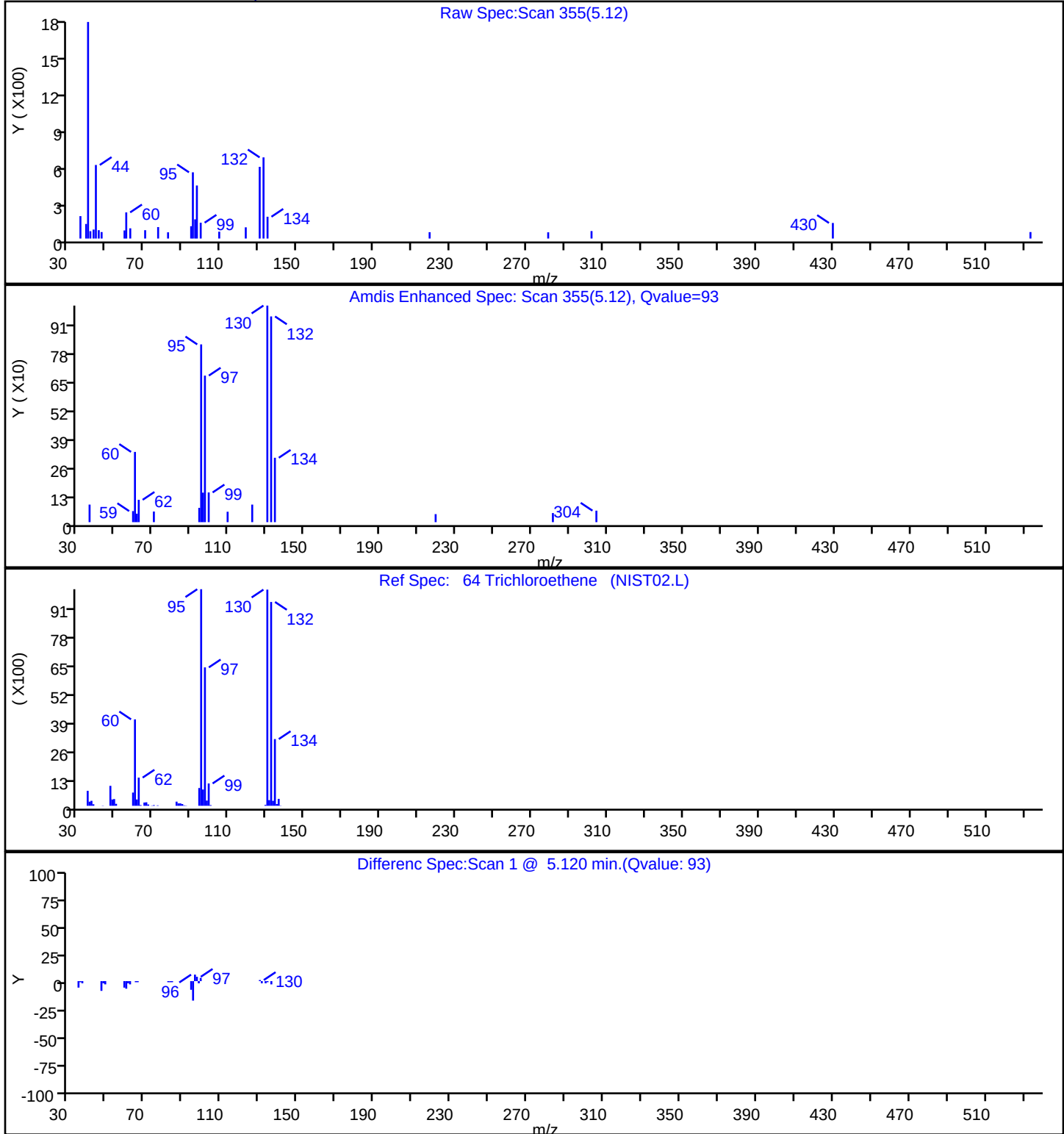
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**64 Trichloroethene, CAS: 79-01-6**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76061.D

Injection Date: 10-Oct-2018 06:30:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-10

Lab Sample ID: 460-165769-10

Client ID: FSMW-4A 09282018

Operator ID:

ALS Bottle#:

25

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

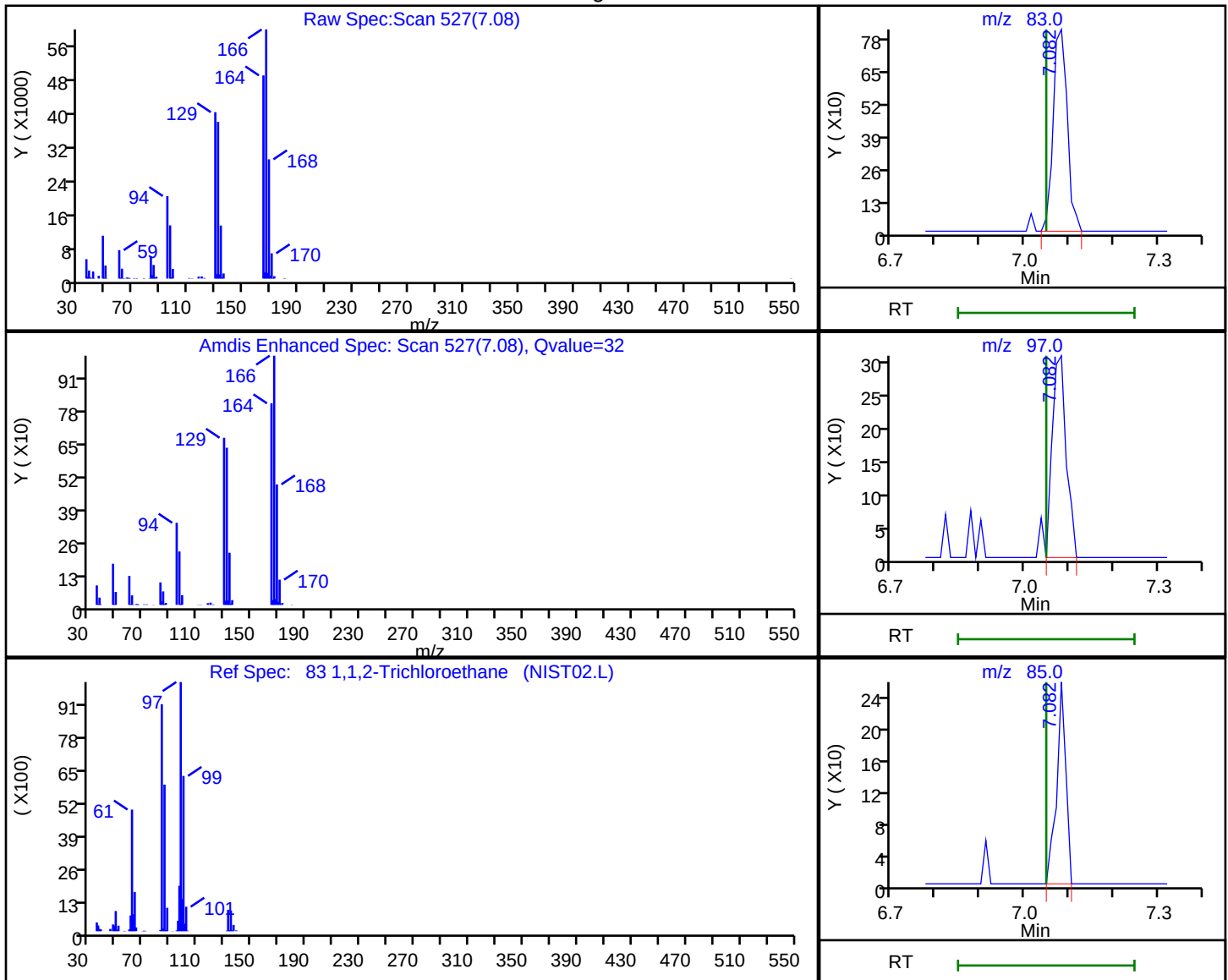
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 83 1,1,2-Trichloroethane, CAS: 79-00-5

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 7.08 | 83.00 | 1822     | 0.936038 |
| 7.08 | 97.00 | 662      |          |
| 7.08 | 85.00 | 364      |          |

Reviewer: moroneyc, 10-Oct-2018 07:53:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                           |                                                |
|-------------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u>       | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                            |                                                |
| Client Sample ID: <u>FSMW-2B 09282018</u> | Lab Sample ID: <u>460-165769-11</u>            |
| Matrix: <u>Water</u>                      | Lab File ID: <u>J76100.D</u>                   |
| Analysis Method: <u>8260C</u>             | Date Collected: <u>09/28/2018 13:50</u>        |
| Sample wt/vol: <u>5(mL)</u>               | Date Analyzed: <u>10/11/2018 01:06</u>         |
| Soil Aliquot Vol: _____                   | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____                  | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                         | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>559112</u>         | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q   | RL  | MDL  |
|------------|-----------------------------|--------|-----|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U   | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U   | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U   | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U   | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U   | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U   | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U   | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U * | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U   | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U   | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U   | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U   | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U   | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U   | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U   | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U   | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U   | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U   | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U   | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U   | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U   | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U   | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U   | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.62   | J * | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U   | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U   | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U   | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U   | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U   | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FSMW-2B 09282018 Lab Sample ID: 460-165769-11  
Matrix: Water Lab File ID: J76100.D  
Analysis Method: 8260C Date Collected: 09/28/2018 13:50  
Sample wt/vol: 5 (mL) Date Analyzed: 10/11/2018 01:06  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 559112 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 94   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 108  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\J76100.D  
 Lims ID: 460-165769-C-11  
 Client ID: FSMW-2B 09282018  
 Sample Type: Client  
 Inject. Date: 11-Oct-2018 01:06:30 ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-C-11  
 Misc. Info.: 460-0080066-014  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 08:28:07 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: moroneyc

Date: 11-Oct-2018 08:23:23

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|-----|----------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.732        | 2.735            | -0.003           | 0   | 183010   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.736        | 3.739            | -0.003           | 0   | 236956   | 250.0             |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.193        | 4.185            | 0.008            | 97  | 111206   | 53.8              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.524        | 4.516            | 0.008            | 0   | 103877   | 46.0              |       |
| * 62 Fluorobenzene               | 96  | 4.787        | 4.778            | 0.009            | 100 | 383978   | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.483        | 5.486            | -0.003           | 0   | 16722    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.419        | 6.411            | 0.008            | 99  | 320346   | 46.7              |       |
| 84 Tetrachloroethene             | 166 | 7.093        | 7.085            | 0.008            | 89  | 1360     | 0.6180            |       |
| * 90 Chlorobenzene-d5            | 117 | 8.189        | 8.192            | -0.003           | 84  | 287984   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.662        | 9.653            | 0.009            | 98  | 102431   | 47.2              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.632       | 10.624           | 0.008            | 92  | 166194   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80066.b\\J76100.D

Injection Date: 11-Oct-2018 01:06:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-C-11

Lab Sample ID: 460-165769-11

Worklist Smp#: 14

Client ID: FSMW-2B 09282018

Purge Vol: 5.000 mL

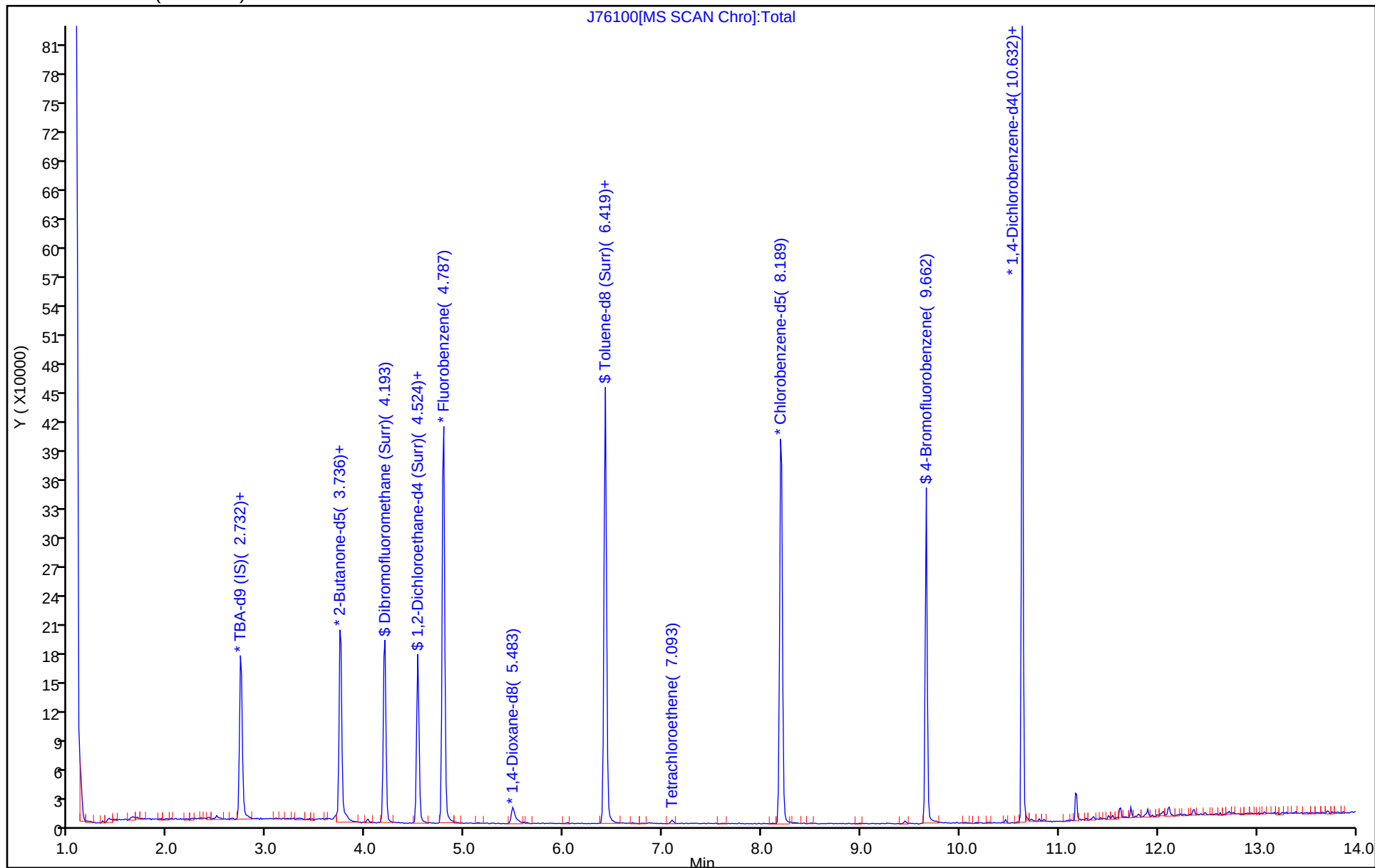
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80066.b\\J76100.D

Injection Date: 11-Oct-2018 01:06:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-C-11

Lab Sample ID: 460-165769-11

Client ID: FSMW-2B 09282018

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

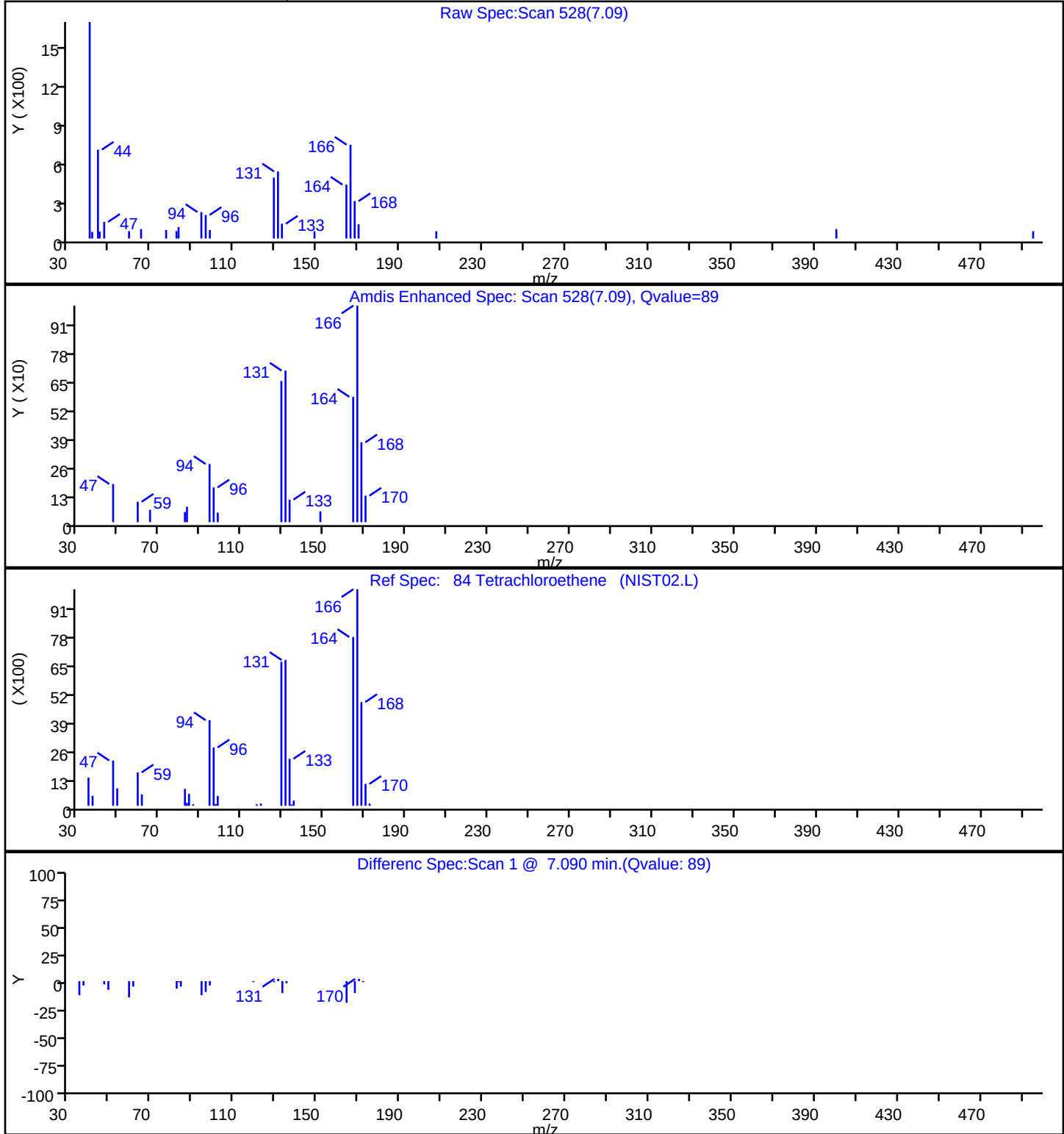
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**84 Tetrachloroethene, CAS: 127-18-4**

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                       |                                                |
|---------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u>   | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                        |                                                |
| Client Sample ID: <u>EB3 09282018</u> | Lab Sample ID: <u>460-165769-12</u>            |
| Matrix: <u>Water</u>                  | Lab File ID: <u>J76048.D</u>                   |
| Analysis Method: <u>8260C</u>         | Date Collected: <u>09/28/2018 12:15</u>        |
| Sample wt/vol: <u>5(mL)</u>           | Date Analyzed: <u>10/10/2018 00:41</u>         |
| Soil Aliquot Vol: _____               | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____              | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                     | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>558837</u>     | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 3.6    | J | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 8.6    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.25   | U | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EB3 09282018 Lab Sample ID: 460-165769-12  
Matrix: Water Lab File ID: J76048.D  
Analysis Method: 8260C Date Collected: 09/28/2018 12:15  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 00:41  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 94   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 95   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 110  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76048.D  
 Lims ID: 460-165769-A-12  
 Client ID: EB3 09282018  
 Sample Type: Client  
 Inject. Date: 10-Oct-2018 00:41:30 ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-A-12  
 Misc. Info.: 460-0080013-013  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:40:25 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: moroneyc

Date: 10-Oct-2018 07:49:36

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| 18 Acetone                       | 43  | 2.401        | 2.401            | 0.000            | 87 | 5297     | 8.61              |       |
| * 27 TBA-d9 (IS)                 | 65  | 2.721        | 2.732            | -0.011           | 0  | 177899   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.726        | 3.725            | 0.001            | 0  | 237218   | 250.0             |       |
| 41 2-Butanone (MEK)              | 72  | 3.783        | 3.782            | 0.001            | 98 | 888      | 3.62              |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.171        | 4.171            | 0.000            | 96 | 116739   | 54.8              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513        | 4.513            | 0.000            | 0  | 108811   | 46.8              |       |
| * 62 Fluorobenzene               | 96  | 4.765        | 4.764            | 0.001            | 99 | 395609   | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472        | 5.472            | 0.000            | 0  | 17178    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.397        | 6.397            | 0.000            | 99 | 319912   | 46.2              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.178        | 8.178            | 0.000            | 83 | 290580   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.651        | 9.651            | 0.000            | 98 | 104102   | 47.5              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.621       | 10.621           | 0.000            | 92 | 166414   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76048.D

Injection Date: 10-Oct-2018 00:41:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-A-12

Lab Sample ID: 460-165769-12

Worklist Smp#: 13

Client ID: EB3 09282018

Purge Vol: 5.000 mL

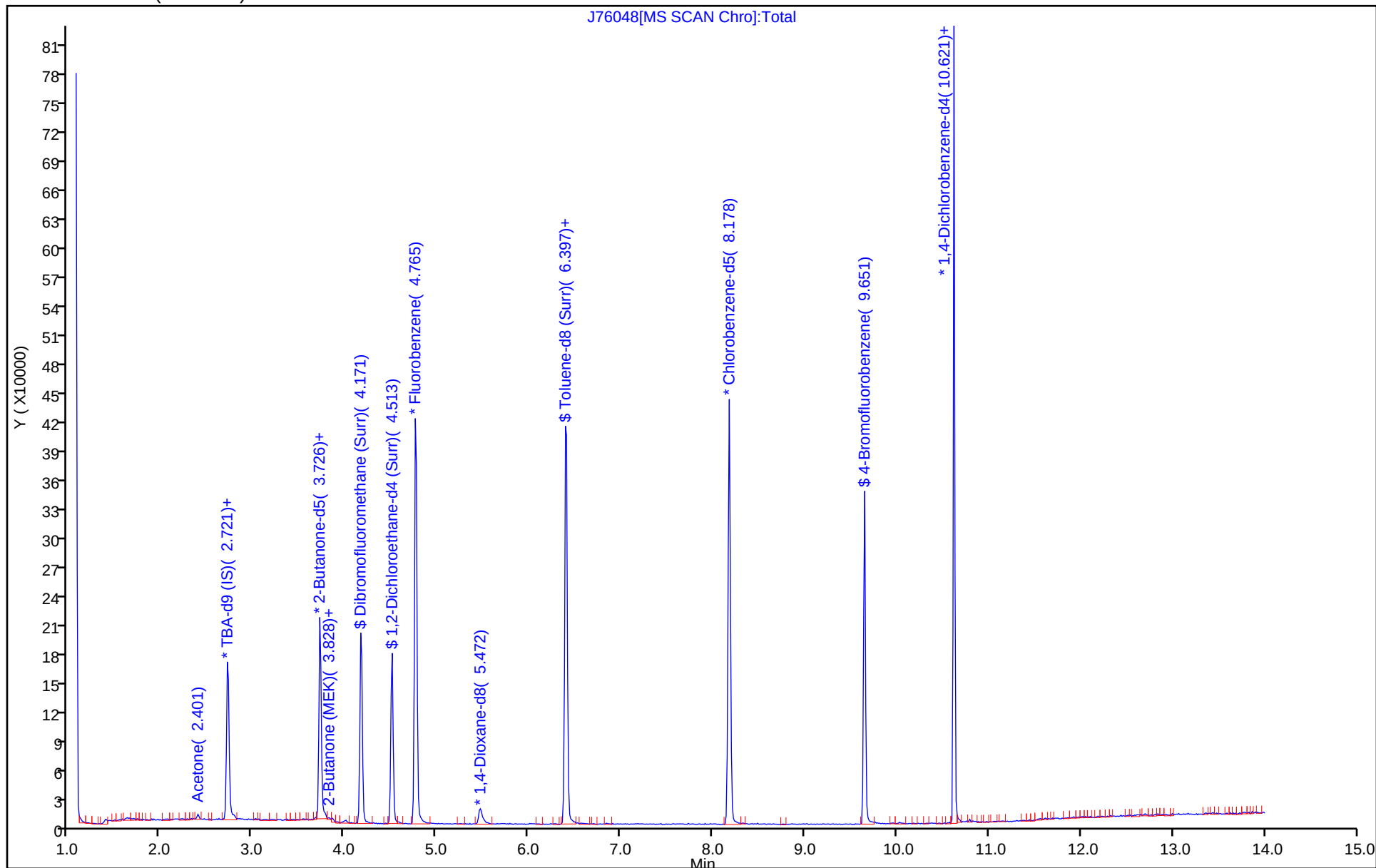
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76048.D

Injection Date: 10-Oct-2018 00:41:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-12

Lab Sample ID: 460-165769-12

Client ID: EB3 09282018

Operator ID:

ALS Bottle#: 12 Worklist Smp#: 13

Purge Vol: 5.000 mL

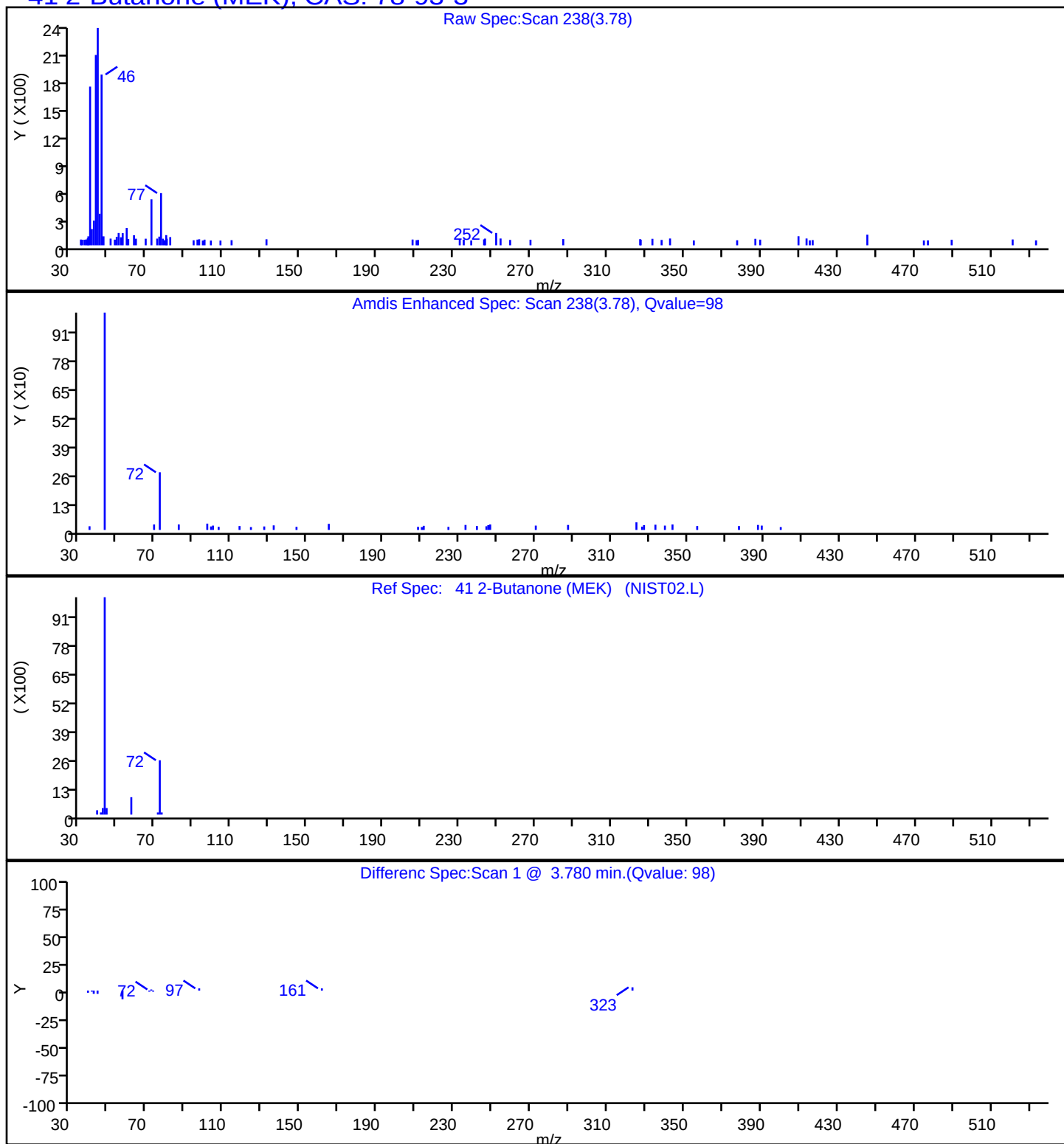
Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

**41 2-Butanone (MEK), CAS: 78-93-3**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76048.D

Injection Date: 10-Oct-2018 00:41:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-12

Lab Sample ID: 460-165769-12

Client ID: EB3 09282018

Operator ID:

ALS Bottle#: 12 Worklist Smp#: 13

Purge Vol: 5.000 mL

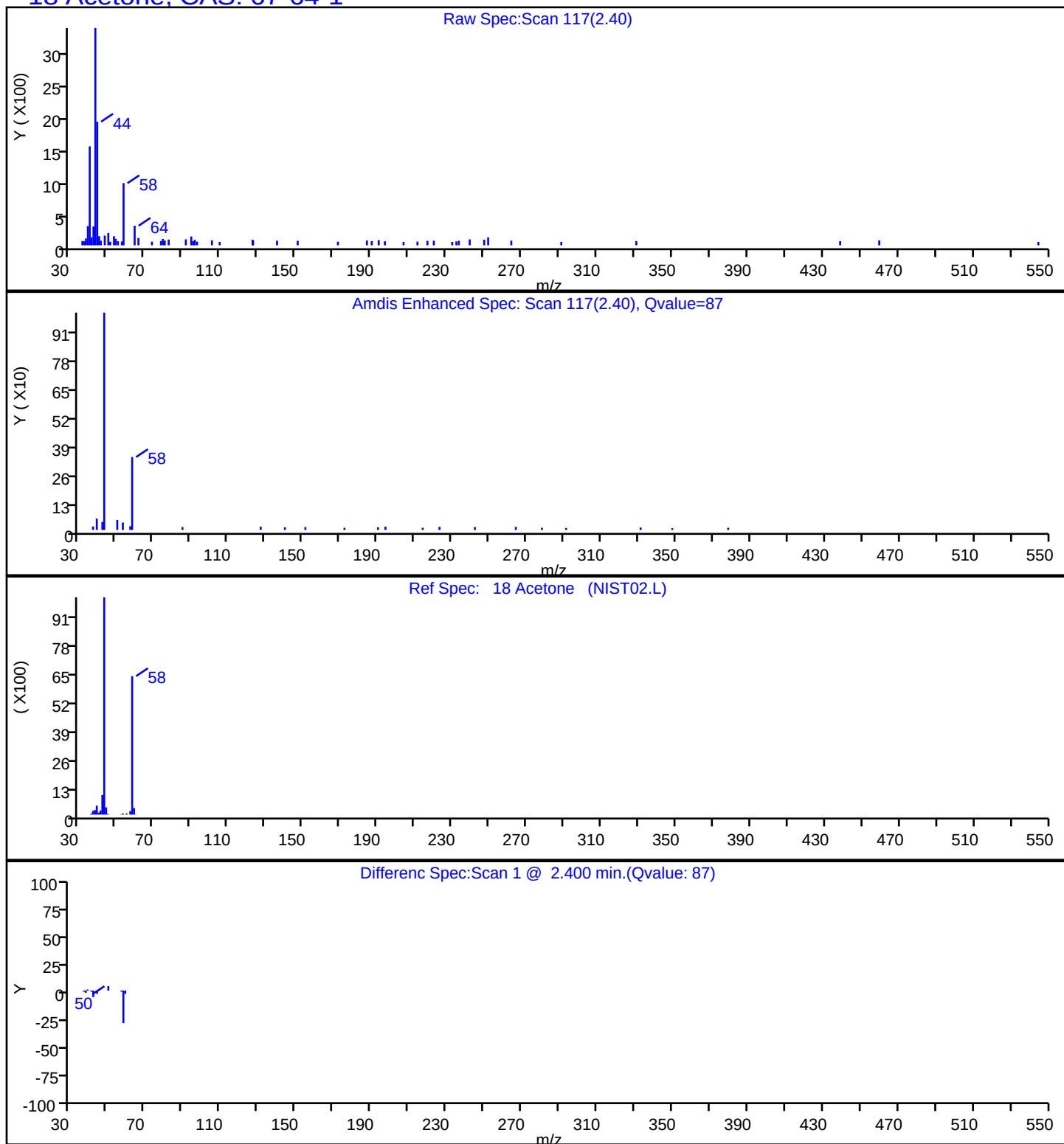
Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

**18 Acetone, CAS: 67-64-1**

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                       |                                                |
|---------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u>   | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                        |                                                |
| Client Sample ID: <u>FB3 09282018</u> | Lab Sample ID: <u>460-165769-13</u>            |
| Matrix: <u>Water</u>                  | Lab File ID: <u>J76049.D</u>                   |
| Analysis Method: <u>8260C</u>         | Date Collected: <u>09/28/2018 12:45</u>        |
| Sample wt/vol: <u>5(mL)</u>           | Date Analyzed: <u>10/10/2018 01:08</u>         |
| Soil Aliquot Vol: _____               | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____              | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                     | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>558837</u>     | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 3.9    | J | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 18     |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.25   | U | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FB3 09282018 Lab Sample ID: 460-165769-13  
Matrix: Water Lab File ID: J76049.D  
Analysis Method: 8260C Date Collected: 09/28/2018 12:45  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 01:08  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 94   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 97   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 110  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76049.D  
 Lims ID: 460-165769-A-13  
 Client ID: FB3 09282018  
 Sample Type: Client  
 Inject. Date: 10-Oct-2018 01:08:30 ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-A-13  
 Misc. Info.: 460-0080013-014  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:40:25 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: moroneyc

Date: 10-Oct-2018 07:50:02

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| 18 Acetone                       | 43  | 2.401        | 2.401            | 0.000            | 87 | 11212    | 18.0              |       |
| * 27 TBA-d9 (IS)                 | 65  | 2.720        | 2.732            | -0.012           | 0  | 187056   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.725        | 3.725            | 0.000            | 0  | 240207   | 250.0             |       |
| 41 2-Butanone (MEK)              | 72  | 3.782        | 3.782            | 0.000            | 98 | 980      | 3.95              |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.170        | 4.171            | -0.001           | 98 | 115779   | 54.9              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513        | 4.513            | 0.000            | 0  | 108799   | 47.2              |       |
| * 62 Fluorobenzene               | 96  | 4.775        | 4.764            | 0.011            | 99 | 391584   | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472        | 5.472            | 0.000            | 0  | 17837    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.408        | 6.397            | 0.011            | 99 | 325952   | 47.6              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.177        | 8.178            | -0.001           | 83 | 286929   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.650        | 9.651            | -0.001           | 98 | 104426   | 48.3              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.621       | 10.621           | 0.000            | 93 | 162295   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76049.D

Injection Date: 10-Oct-2018 01:08:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-A-13

Lab Sample ID: 460-165769-13

Worklist Smp#: 14

Client ID: FB3 09282018

Purge Vol: 5.000 mL

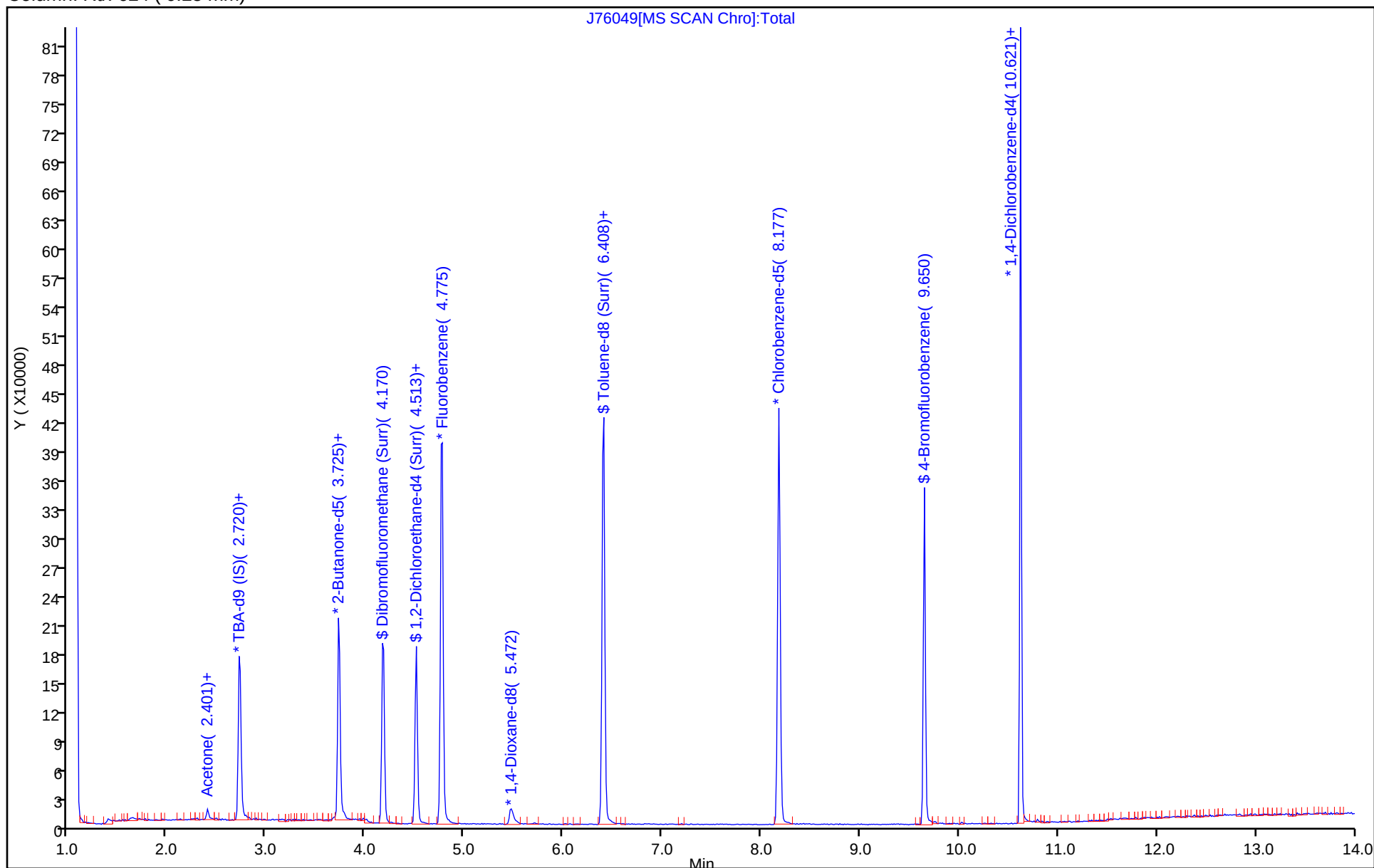
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76049.D

Injection Date: 10-Oct-2018 01:08:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-13

Lab Sample ID: 460-165769-13

Client ID: FB3 09282018

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

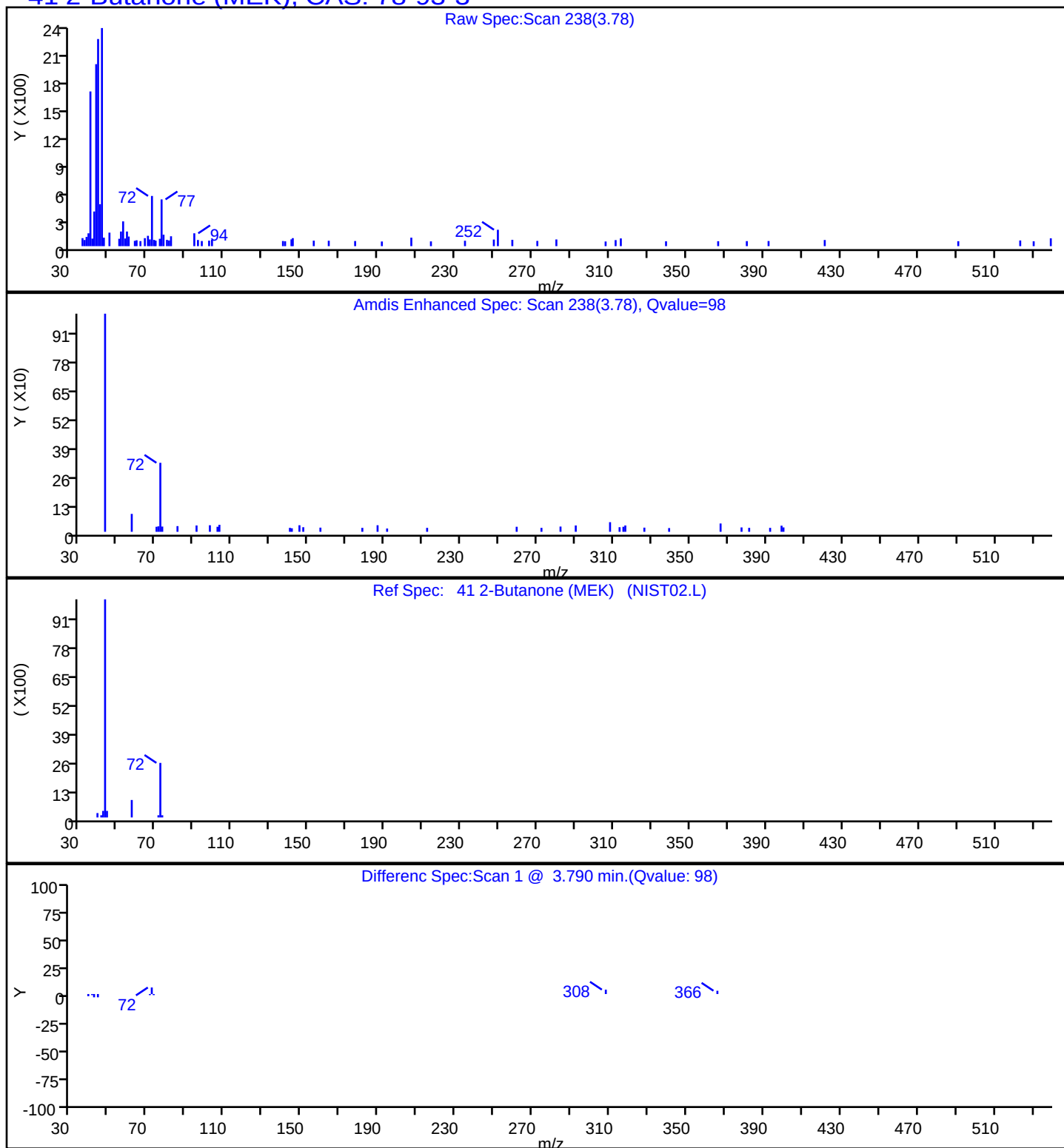
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**41 2-Butanone (MEK), CAS: 78-93-3**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76049.D

Injection Date: 10-Oct-2018 01:08:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-13

Lab Sample ID: 460-165769-13

Client ID: FB3 09282018

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

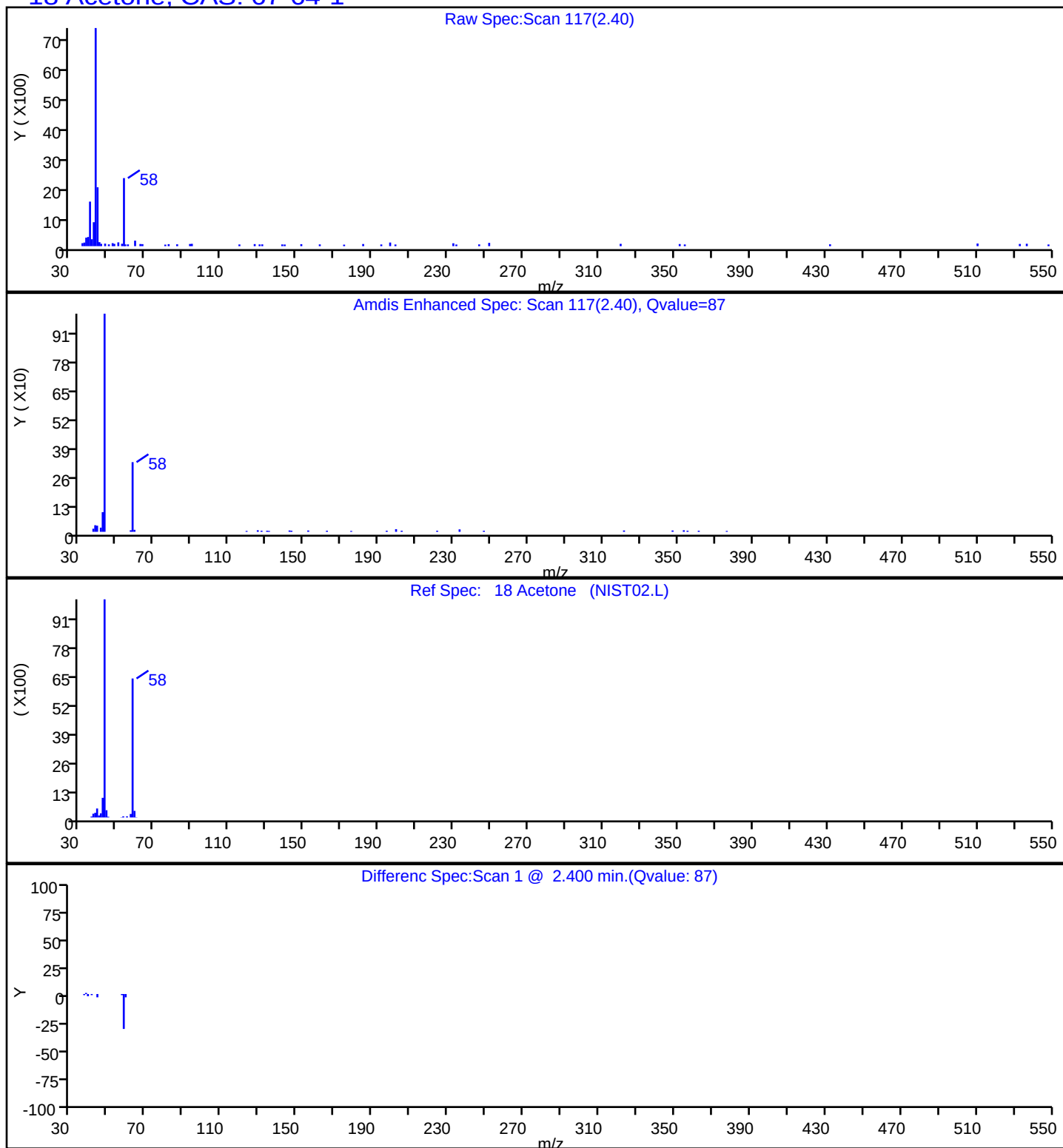
Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**18 Acetone, CAS: 67-64-1**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76049.D

Injection Date: 10-Oct-2018 01:08:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-13

Lab Sample ID: 460-165769-13

Client ID: FB3 09282018

Operator ID:

ALS Bottle#:

13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

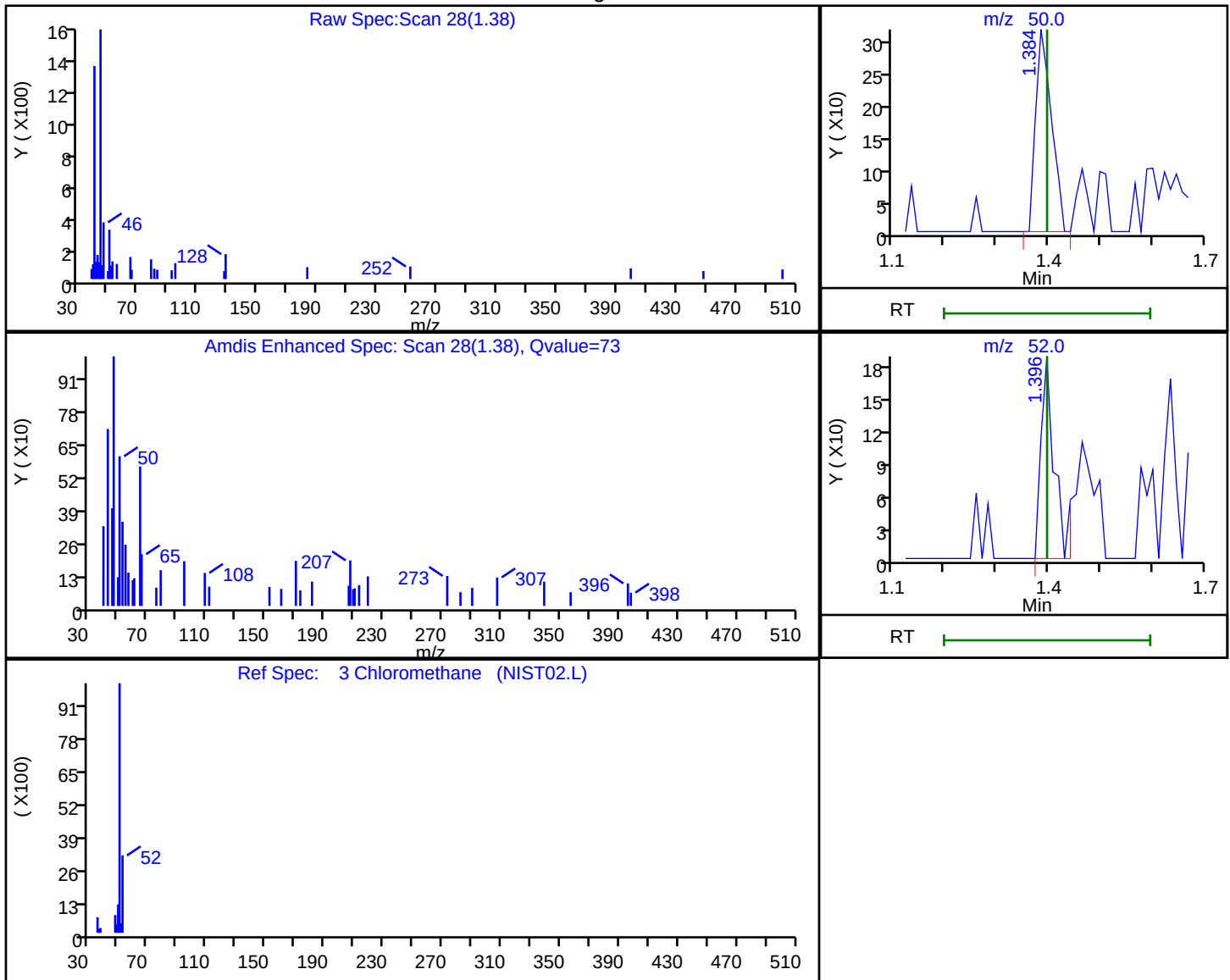
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 3 Chloromethane, CAS: 74-87-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 1.38 | 50.00 | 670      | 0.190059 |
| 1.40 | 52.00 | 353      |          |

Reviewer: moroneyc, 10-Oct-2018 07:49:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

|                                       |                                                |
|---------------------------------------|------------------------------------------------|
| Lab Name: <u>TestAmerica Edison</u>   | Job No.: <u>460-165769-1</u>                   |
| SDG No.: _____                        |                                                |
| Client Sample ID: <u>TB1 09262018</u> | Lab Sample ID: <u>460-165769-14</u>            |
| Matrix: <u>Water</u>                  | Lab File ID: <u>J76050.D</u>                   |
| Analysis Method: <u>8260C</u>         | Date Collected: <u>09/28/2018 13:50</u>        |
| Sample wt/vol: <u>5(mL)</u>           | Date Analyzed: <u>10/10/2018 01:35</u>         |
| Soil Aliquot Vol: _____               | Dilution Factor: <u>1</u>                      |
| Soil Extract Vol.: _____              | GC Column: <u>Rtx-624</u> ID: <u>0.25 (mm)</u> |
| % Moisture: _____                     | Level: (low/med) <u>Low</u>                    |
| Analysis Batch No.: <u>558837</u>     | Units: <u>ug/L</u>                             |

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 3.1    | J | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 8.0    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.25   | U | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: TB1 09262018 Lab Sample ID: 460-165769-14  
Matrix: Water Lab File ID: J76050.D  
Analysis Method: 8260C Date Collected: 09/28/2018 13:50  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 01:35  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 94   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 93   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 109  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76050.D  
 Lims ID: 460-165769-A-14  
 Client ID: TB1 09262018  
 Sample Type: Client  
 Inject. Date: 10-Oct-2018 01:35:30 ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 460-165769-A-14  
 Misc. Info.: 460-0080013-015  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:40:25 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0315

First Level Reviewer: moroneyc

Date: 10-Oct-2018 07:50:16

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-------------------|-------|
| 18 Acetone                       | 43  | 2.402        | 2.401            | 0.001            | 90 | 4985     | 8.04              |       |
| * 27 TBA-d9 (IS)                 | 65  | 2.721        | 2.732            | -0.011           | 0  | 185460   | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.726        | 3.725            | 0.001            | 0  | 238986   | 250.0             |       |
| 41 2-Butanone (MEK)              | 72  | 3.783        | 3.782            | 0.001            | 90 | 771      | 3.12              |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.171        | 4.171            | 0.000            | 97 | 114584   | 54.5              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.514        | 4.513            | 0.001            | 0  | 107581   | 46.8              |       |
| * 62 Fluorobenzene               | 96  | 4.765        | 4.764            | 0.001            | 99 | 390627   | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.473        | 5.472            | 0.001            | 0  | 17013    | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.409        | 6.397            | 0.012            | 99 | 321475   | 46.1              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.179        | 8.178            | 0.001            | 83 | 292581   | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.651        | 9.651            | 0.000            | 97 | 103103   | 46.7              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.622       | 10.621           | 0.001            | 93 | 170276   | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76050.D

Injection Date: 10-Oct-2018 01:35:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: 460-165769-A-14

Lab Sample ID: 460-165769-14

Worklist Smp#: 15

Client ID: TB1 09262018

Purge Vol: 5.000 mL

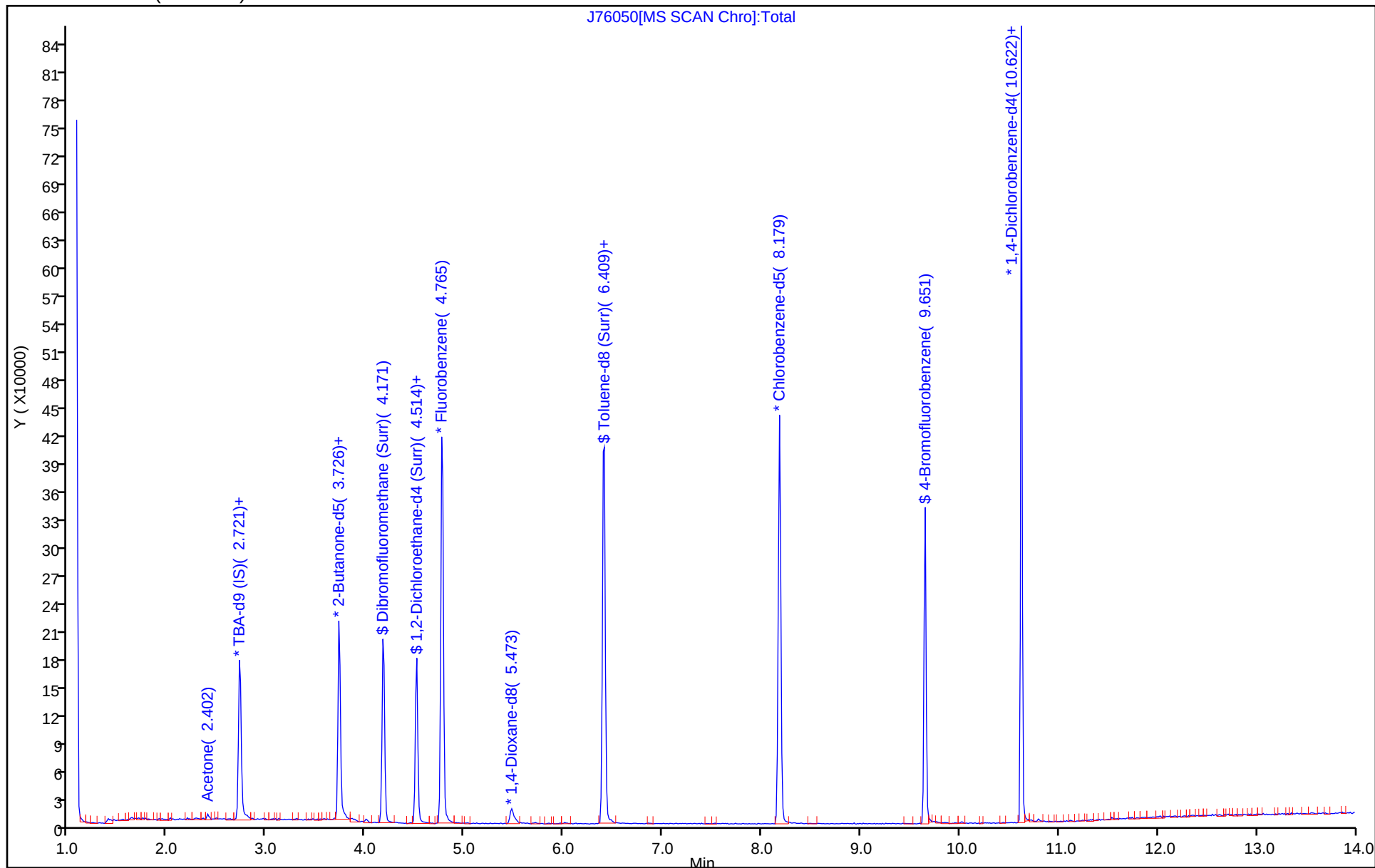
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)





## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76050.D

Injection Date: 10-Oct-2018 01:35:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-14

Lab Sample ID: 460-165769-14

Client ID: TB1 09262018

Operator ID:

ALS Bottle#: 14 Worklist Smp#: 15

Purge Vol: 5.000 mL

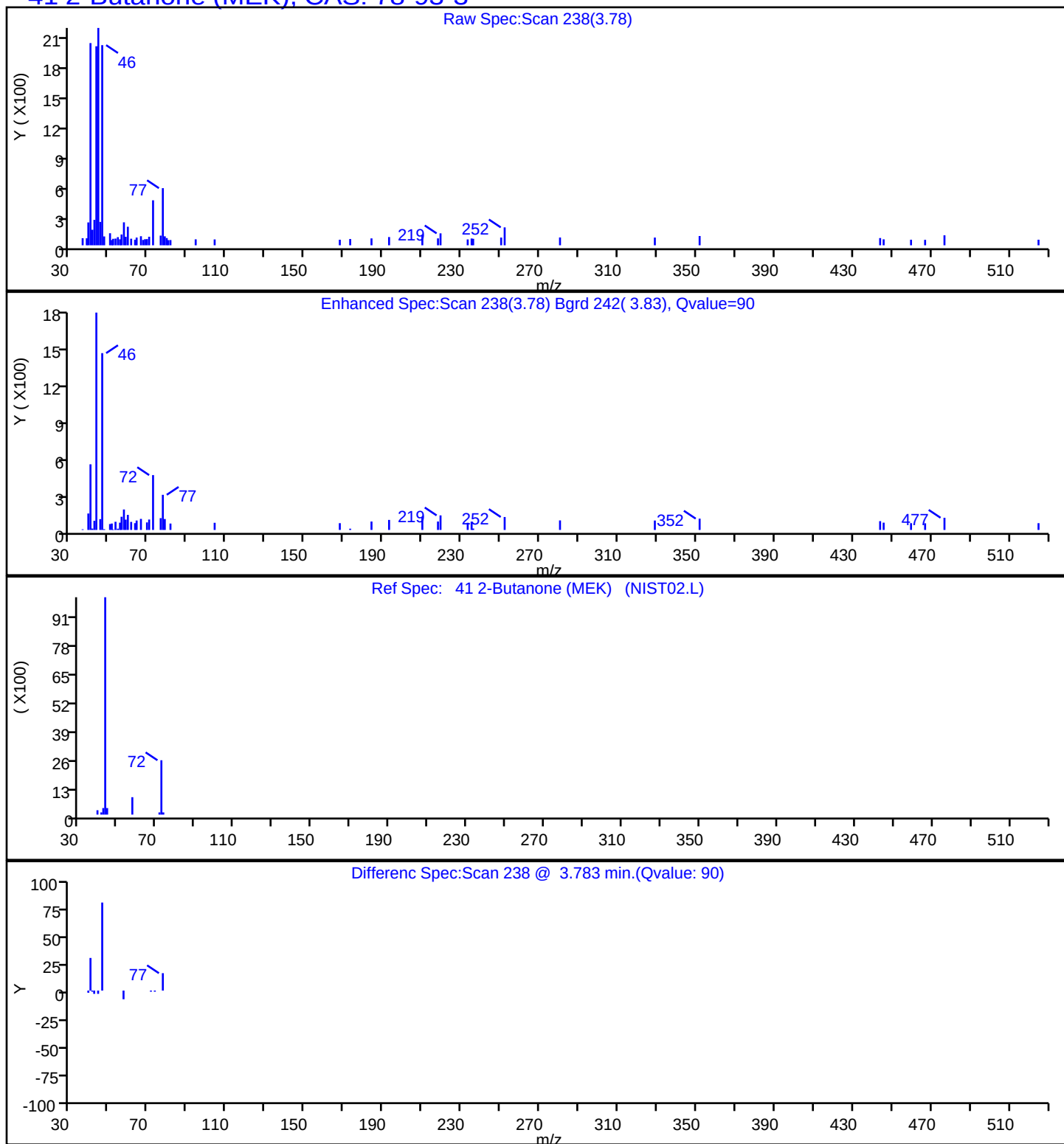
Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

**41 2-Butanone (MEK), CAS: 78-93-3**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76050.D

Injection Date: 10-Oct-2018 01:35:30

Instrument ID: CVOAMS8

Lims ID: 460-165769-A-14

Lab Sample ID: 460-165769-14

Client ID: TB1 09262018

Operator ID:

ALS Bottle#: 14 Worklist Smp#: 15

Purge Vol: 5.000 mL

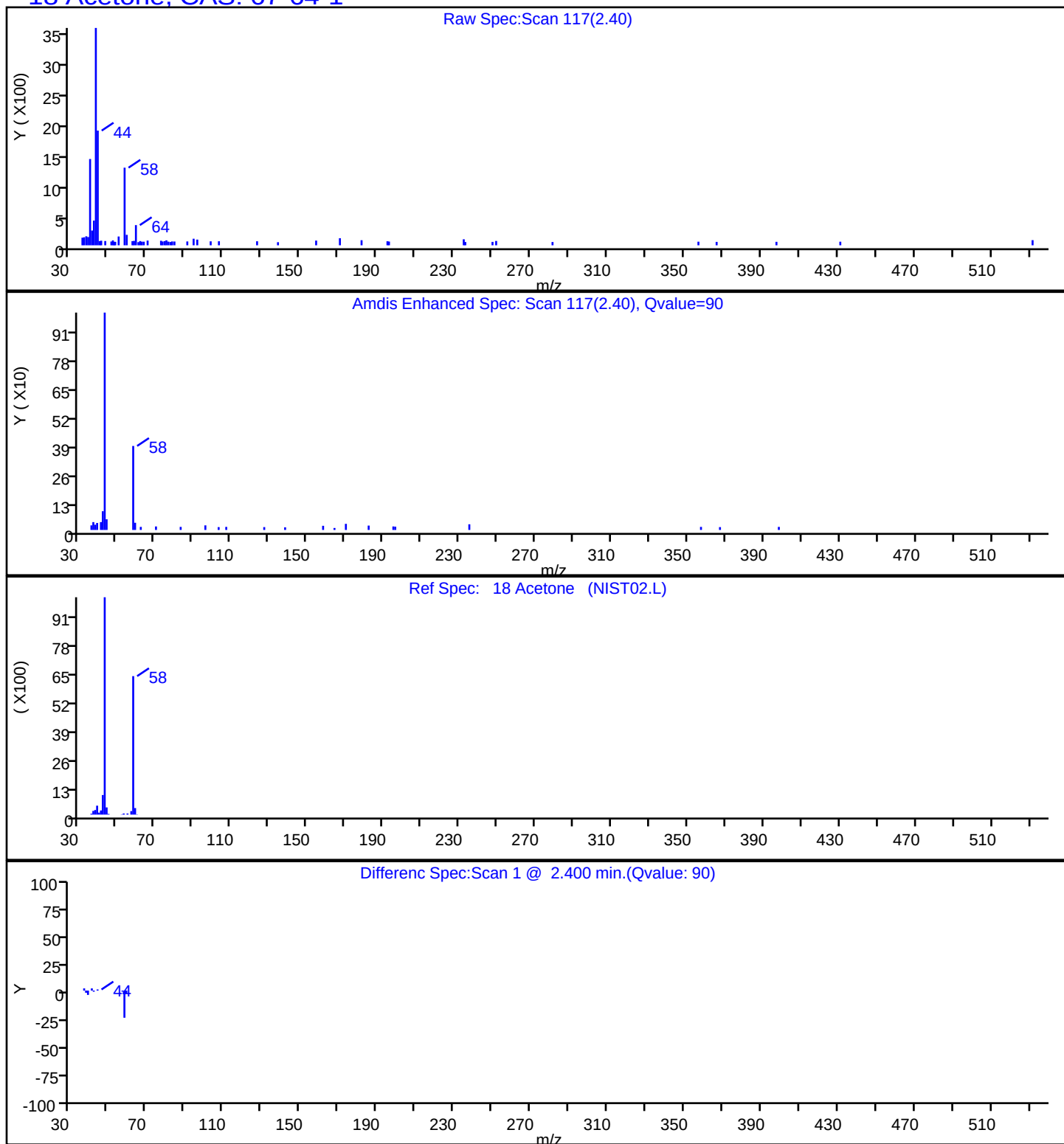
Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector MS SCAN

**18 Acetone, CAS: 67-64-1**

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:      | LAB FILE ID: |
|---------|---------------------|--------------|
| Level 1 | STD7 460-553713/3   | J75066.D     |
| Level 2 | STD1 460-553713/15  | J75078.D     |
| Level 3 | STD5 460-553713/5   | J75068.D     |
| Level 4 | STD20 460-553713/6  | J75069.D     |
| Level 5 | STD50 460-553713/7  | J75070.D     |
| Level 6 | STD200 460-553713/8 | J75071.D     |
| Level 7 | STD500 460-553713/9 | J75072.D     |

| ANALYTE                            | RRF              |                  |        |        |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|------------------------------------|------------------|------------------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|---|----------|------------|---|----------------|
|                                    | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |            | B           | M1     | M2 |   |         |      |   |          |            |   |                |
| Chlorotrifluoroethene              | +++++<br>0.0466  | 0.0519<br>0.0426 | 0.0546 | 0.0606 | 0.0471 | Ave        |             | 0.0506 |    |   |         | 12.9 |   | 20.0     |            |   |                |
| Dichlorodifluoromethane            | +++++<br>0.4049  | 0.3547<br>0.3835 | 0.3908 | 0.3655 | 0.3967 | Ave        |             | 0.3827 |    |   | 0.1000  | 5.0  |   | 20.0     |            |   |                |
| Chloromethane                      | +++++<br>0.4641  | 0.4254<br>0.4378 | 0.4666 | 0.4615 | 0.4454 | Ave        |             | 0.4501 |    |   | 0.1000  | 3.7  |   | 20.0     |            |   |                |
| Vinyl chloride                     | +++++<br>0.4171  | 0.4384<br>0.3894 | 0.4414 | 0.4296 | 0.4031 | Ave        |             | 0.4198 |    |   | 0.1000  | 4.9  |   | 20.0     |            |   |                |
| Butadiene                          | 0.2698<br>0.3948 | 0.3728<br>0.3647 | 0.3695 | 0.3676 | 0.3364 | Ave        |             | 0.3536 |    |   |         | 11.5 |   | 20.0     |            |   |                |
| Bromomethane                       | +++++<br>0.2048  | 0.3581<br>0.1781 | 0.2274 | 0.1869 | 0.2095 | Lin2       | 0.1660      | 0.1921 |    |   | 0.1000  |      |   |          | 0.9960     |   | 0.9900         |
| Chloroethane                       | +++++<br>0.2058  | 0.2422<br>0.1871 | 0.2087 | 0.1981 | 0.1971 | Ave        |             | 0.2065 |    |   | 0.1000  | 9.2  |   | 20.0     |            |   |                |
| Trichlorofluoromethane             | +++++<br>0.3339  | 0.4135<br>+++++  | 0.4595 | 0.4438 | 0.4219 | Ave        |             | 0.4145 |    |   | 0.1000  | 11.7 |   | 20.0     |            |   |                |
| Dichlorofluoromethane              | +++++<br>0.5683  | 0.6760<br>0.5253 | 0.5783 | 0.5672 | 0.5427 | Ave        |             | 0.5763 |    |   |         | 9.1  |   | 20.0     |            |   |                |
| Pentane                            | +++++<br>1.5772  | 1.3037<br>1.4687 | 1.3662 | 1.3560 | 1.5664 | Ave        |             | 1.4397 |    |   |         | 8.0  |   | 20.0     |            |   |                |
| Ethanol                            | +++++<br>0.0669  | 0.0831<br>0.0788 | 0.0590 | 0.0713 | 0.0707 | Ave        |             | 0.0716 |    |   |         | 11.9 |   | 20.0     |            |   |                |
| Ethyl ether                        | +++++<br>0.2374  | 0.2483<br>0.2093 | 0.2486 | 0.2277 | 0.2404 | Ave        |             | 0.2353 |    |   |         | 6.3  |   | 20.0     |            |   |                |
| 2-Methyl-1,3-butadiene             | +++++<br>0.2828  | 0.1954<br>0.2615 | 0.2504 | 0.2562 | 0.2979 | Ave        |             | 0.2574 |    |   |         | 13.7 |   | 20.0     |            |   |                |
| 1,2-Dichloro-1,1,2-trifluoroethane | +++++<br>0.2257  | 0.2109<br>0.2407 | 0.2377 | 0.2342 | 0.2350 | Ave        |             | 0.2307 |    |   |         | 4.7  |   | 20.0     |            |   |                |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713  
SDG No.: \_\_\_\_\_  
Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                               | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|---------------------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                                       | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ++++<br>0.2646   | 0.2433<br>0.2487 | 0.2646 | 0.2737 | 0.2734 | Ave           |             | 0.2614 |    |   | 0.1000  | 4.9  |   | 20.0        |               |   |                   |
| Acrolein                              | ++++<br>2.2908   | 2.3194<br>1.7242 | 2.2376 | 2.2051 | 2.1207 | Ave           |             | 2.1496 |    |   |         | 10.2 |   | 20.0        |               |   |                   |
| 1,1-Dichloroethene                    | ++++<br>0.2604   | 0.2653<br>0.2467 | 0.2592 | 0.2516 | 0.2555 | Ave           |             | 0.2564 |    |   | 0.1000  | 2.6  |   | 20.0        |               |   |                   |
| Acetone                               | ++++<br>0.6066   | 0.7340<br>0.5947 | 0.6923 | 0.6434 | 0.6199 | Ave           |             | 0.6485 |    |   | 0.0500  | 8.4  |   | 20.0        |               |   |                   |
| Iodomethane                           | ++++<br>0.4613   | 0.4277<br>0.4353 | 0.3353 | 0.3767 | 0.4302 | Ave           |             | 0.4111 |    |   |         | 11.2 |   | 20.0        |               |   |                   |
| Carbon disulfide                      | ++++<br>0.9766   | 1.1879<br>0.9010 | 1.0559 | 1.0103 | 1.0055 | Ave           |             | 1.0229 |    |   | 0.1000  | 9.4  |   | 20.0        |               |   |                   |
| Isopropyl alcohol                     | ++++<br>0.7710   | 0.9232<br>0.7674 | 0.7969 | 0.7911 | 0.8294 | Ave           |             | 0.8132 |    |   |         | 7.2  |   | 20.0        |               |   |                   |
| Allyl chloride                        | ++++<br>0.1478   | 0.2029<br>0.1438 | 0.1784 | 0.1735 | 0.1807 | Ave           |             | 0.1712 |    |   |         | 12.9 |   | 20.0        |               |   |                   |
| Cyclopentene                          | ++++<br>0.7578   | 0.5758<br>0.7258 | 0.6813 | 0.6927 | 0.8047 | Ave           |             | 0.7063 |    |   |         | 11.1 |   | 20.0        |               |   |                   |
| Methyl acetate                        | ++++<br>0.2660   | 0.2777<br>0.2324 | 0.2805 | 0.2881 | 0.2940 | Ave           |             | 0.2731 |    |   | 0.1000  | 8.1  |   | 20.0        |               |   |                   |
| Acetonitrile                          | ++++<br>1.7594   | 1.8203<br>1.7222 | 1.8590 | 1.8591 | 1.8441 | Ave           |             | 1.8107 |    |   |         | 3.2  |   | 20.0        |               |   |                   |
| Methylene Chloride                    | ++++<br>0.3201   | 0.4627<br>0.2943 | 0.3565 | 0.3257 | 0.3243 | Lin2          | 0.1498      | 0.3154 |    |   | 0.1000  |      |   |             | 0.9990        |   | 0.9900            |
| 2-Methyl-2-propanol                   | ++++<br>1.1651   | 1.3962<br>1.1004 | 1.1272 | 1.1324 | 1.1531 | Ave           |             | 1.1791 |    |   |         | 9.2  |   | 20.0        |               |   |                   |
| Methyl tert-butyl ether               | ++++<br>0.7945   | 0.7448<br>0.7344 | 0.7508 | 0.7668 | 0.8035 | Ave           |             | 0.7658 |    |   | 0.1000  | 3.6  |   | 20.0        |               |   |                   |
| trans-1,2-Dichloroethene              | ++++<br>0.2888   | 0.3086<br>0.2821 | 0.3123 | 0.2856 | 0.2919 | Ave           |             | 0.2949 |    |   | 0.1000  | 4.3  |   | 20.0        |               |   |                   |
| Acrylonitrile                         | 5.2838<br>5.0791 | 5.4255<br>4.1102 | 5.0891 | 5.1497 | 5.0901 | Ave           |             | 5.0325 |    |   |         | 8.5  |   | 20.0        |               |   |                   |
| Hexane                                | ++++<br>0.3118   | 0.3013<br>0.2833 | 0.3385 | 0.3090 | 0.3070 | Ave           |             | 0.3085 |    |   |         | 5.8  |   | 20.0        |               |   |                   |
| Isopropyl ether                       | ++++<br>1.0725   | 0.9620<br>0.9716 | 1.0402 | 1.0515 | 1.0926 | Ave           |             | 1.0317 |    |   |         | 5.2  |   | 20.0        |               |   |                   |
| 1,1-Dichloroethane                    | ++++<br>0.5605   | 0.6207<br>0.5043 | 0.5886 | 0.5575 | 0.5674 | Ave           |             | 0.5665 |    |   | 0.2000  | 6.8  |   | 20.0        |               |   |                   |
| Vinyl acetate                         | ++++<br>0.5774   | 0.6965<br>0.5388 | 0.6255 | 0.6477 | 0.6117 | Ave           |             | 0.6162 |    |   |         | 8.9  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713  
SDG No.: \_\_\_\_\_  
Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                | RRF            |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------|----------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                        | LVL 1<br>LVL 6 | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| 2-Chloro-1,3-butadiene | ++++<br>0.2697 | 0.2754<br>0.2571 | 0.2591 | 0.2547 | 0.2726 | Ave           |             | 0.2648 |    |   |         | 3.3  |   | 20.0        |               |   |                   |
| Tert-butyl ethyl ether | ++++<br>0.9093 | 0.7864<br>0.8495 | 0.8496 | 0.8736 | 0.9201 | Ave           |             | 0.8648 |    |   |         | 5.6  |   | 20.0        |               |   |                   |
| 2,2-Dichloropropane    | ++++<br>0.1337 | 0.2110<br>0.1239 | 0.1473 | 0.1365 | 0.1370 | Lin2          | 0.0799      | 0.1312 |    |   |         |      |   |             | 0.9990        |   | 0.9900            |
| cis-1,2-Dichloroethene | ++++<br>0.3398 | 0.3503<br>0.3265 | 0.3381 | 0.3352 | 0.3430 | Ave           |             | 0.3388 |    |   | 0.1000  | 2.3  |   | 20.0        |               |   |                   |
| 2-Butanone (MEK)       | ++++<br>0.2468 | 0.2877<br>0.2544 | 0.2563 | 0.2493 | 0.2562 | Ave           |             | 0.2584 |    |   | 0.0500  | 5.8  |   | 20.0        |               |   |                   |
| Ethyl acetate          | ++++<br>0.2443 | 0.2662<br>0.2510 | 0.2522 | 0.2514 | 0.2503 | Ave           |             | 0.2526 |    |   |         | 2.9  |   | 20.0        |               |   |                   |
| Methyl acrylate        | ++++<br>0.3100 | 0.3530<br>0.2962 | 0.3042 | 0.3072 | 0.3223 | Ave           |             | 0.3155 |    |   |         | 6.4  |   | 20.0        |               |   |                   |
| Propionitrile          | ++++<br>1.9814 | 2.1680<br>1.8224 | 1.9459 | 1.9967 | 2.0096 | Ave           |             | 1.9873 |    |   |         | 5.6  |   | 20.0        |               |   |                   |
| Chlorobromomethane     | ++++<br>0.1667 | 0.1792<br>0.1559 | 0.1630 | 0.1642 | 0.1656 | Ave           |             | 0.1658 |    |   |         | 4.6  |   | 20.0        |               |   |                   |
| Tetrahydrofuran        | ++++<br>0.2803 | 0.2204<br>0.2903 | 0.2362 | 0.2737 | 0.2807 | Ave           |             | 0.2636 |    |   |         | 10.7 |   | 20.0        |               |   |                   |
| Methacrylonitrile      | ++++<br>0.1382 | 0.1339<br>0.1184 | 0.1293 | 0.1395 | 0.1471 | Ave           |             | 0.1344 |    |   |         | 7.3  |   | 20.0        |               |   |                   |
| Chloroform             | ++++<br>0.5281 | 0.5449<br>0.4619 | 0.5230 | 0.5321 | 0.5224 | Ave           |             | 0.5187 |    |   | 0.2000  | 5.6  |   | 20.0        |               |   |                   |
| Cyclohexane            | ++++<br>0.3860 | 0.2624<br>0.3506 | 0.3253 | 0.3480 | 0.3713 | Ave           |             | 0.3406 |    |   | 0.1000  | 12.8 |   | 20.0        |               |   |                   |
| 1,1,1-Trichloroethane  | ++++<br>0.4250 | 0.3960<br>0.3807 | 0.4391 | 0.4194 | 0.4242 | Ave           |             | 0.4141 |    |   | 0.1000  | 5.2  |   | 20.0        |               |   |                   |
| Carbon tetrachloride   | ++++<br>0.3614 | 0.3641<br>0.3410 | 0.3722 | 0.3677 | 0.3701 | Ave           |             | 0.3628 |    |   | 0.1000  | 3.1  |   | 20.0        |               |   |                   |
| 1,1-Dichloropropene    | ++++<br>0.3919 | 0.3486<br>0.3755 | 0.3623 | 0.3642 | 0.3868 | Ave           |             | 0.3715 |    |   |         | 4.4  |   | 20.0        |               |   |                   |
| 2,2,4-Trimethylpentane | ++++<br>0.5557 | 0.4142<br>0.5243 | 0.4814 | 0.5144 | 0.5553 | Ave           |             | 0.5075 |    |   |         | 10.5 |   | 20.0        |               |   |                   |
| Isobutyl alcohol       | ++++<br>0.7156 | 0.5356<br>0.6623 | 0.5486 | 0.6451 | 0.6712 | Ave           |             | 0.6297 |    |   |         | 11.4 |   | 20.0        |               |   |                   |
| Benzene                | ++++<br>1.4728 | 1.4933<br>1.3389 | 1.5515 | 1.5437 | 1.5355 | Ave           |             | 1.4893 |    |   | 0.5000  | 5.4  |   | 20.0        |               |   |                   |
| Isopropyl acetate      | ++++<br>0.9306 | 0.7287<br>0.8525 | 0.8207 | 0.8767 | 0.9449 | Ave           |             | 0.8590 |    |   |         | 9.2  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713  
SDG No.: \_\_\_\_\_  
Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                     | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |           | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|-----------|---|---------|------|---|-------------|---------------|---|-------------------|
|                             | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2        |   |         |      |   |             |               |   |                   |
| Tert-amyl methyl ether      | ++++<br>0.2475   | 0.1491<br>0.2436 | 0.2062 | 0.2210 | 0.2493 | Lin2          | -0.093      | 0.2393 |           |   |         |      |   |             | 0.9970        |   | 0.9900            |
| 1,2-Dichloroethane          | ++++<br>0.3819   | 0.4622<br>0.3482 | 0.4037 | 0.3931 | 0.3955 | Ave           |             | 0.3974 |           |   | 0.1000  | 9.4  |   | 20.0        |               |   |                   |
| n-Heptane                   | ++++<br>0.1220   | 0.1204<br>0.1125 | 0.1107 | 0.1149 | 0.1222 | Ave           |             | 0.1171 |           |   |         | 4.3  |   | 20.0        |               |   |                   |
| n-Butanol                   | ++++<br>0.3305   | 0.2316<br>0.3411 | 0.2185 | 0.2662 | 0.3059 | Ave           |             | 0.2823 |           |   |         | 18.2 |   | 20.0        |               |   |                   |
| Trichloroethene             | ++++<br>0.3073   | 0.2824<br>0.2935 | 0.2793 | 0.2971 | 0.3042 | Ave           |             | 0.2940 |           |   | 0.2000  | 3.9  |   | 20.0        |               |   |                   |
| Methylcyclohexane           | ++++<br>0.3846   | 0.2020<br>0.3603 | 0.2785 | 0.3412 | 0.3721 | Lin2          | -0.166      | 0.3584 |           |   | 0.1000  |      |   |             | 0.9940        |   | 0.9900            |
| Ethyl acrylate              | ++++<br>0.5244   | 0.3786<br>0.5198 | 0.3857 | 0.4768 | 0.5278 | Ave           |             | 0.4689 |           |   |         | 14.9 |   | 20.0        |               |   |                   |
| 1,2-Dichloropropane         | ++++<br>0.3312   | 0.3076<br>0.3108 | 0.3209 | 0.3263 | 0.3316 | Ave           |             | 0.3214 |           |   | 0.1000  | 3.2  |   | 20.0        |               |   |                   |
| Methyl methacrylate         | ++++<br>0.0783   | 0.0602<br>0.0783 | 0.0634 | 0.0729 | 0.0801 | Ave           |             | 0.0722 |           |   |         | 11.7 |   | 20.0        |               |   |                   |
| 1,4-Dioxane                 | ++++<br>1.1174   | 1.3870<br>1.4593 | 1.0840 | 1.2134 | 1.2090 | Ave           |             | 1.2450 |           |   |         | 11.9 |   | 20.0        |               |   |                   |
| Dibromomethane              | ++++<br>0.2137   | 0.2257<br>0.2026 | 0.2120 | 0.2124 | 0.2169 | Ave           |             | 0.2139 |           |   |         | 3.5  |   | 20.0        |               |   |                   |
| n-Propyl acetate            | ++++<br>0.4977   | 0.4945<br>0.4843 | 0.4304 | 0.4950 | 0.5328 | Ave           |             | 0.4891 |           |   |         | 6.8  |   | 20.0        |               |   |                   |
| Dichlorobromomethane        | ++++<br>0.4270   | 0.4100<br>0.3949 | 0.4049 | 0.4147 | 0.4252 | Ave           |             | 0.4128 |           |   | 0.2000  | 3.0  |   | 20.0        |               |   |                   |
| 2-Nitropropane              | ++++<br>3.1249   | 3.9519<br>2.9194 | 3.0386 | 2.9159 | 3.0213 | Ave           |             | 3.1620 |           |   |         | 12.5 |   | 20.0        |               |   |                   |
| 2-Chloroethyl vinyl ether   | ++++<br>0.2181   | 0.1216<br>0.2140 | 0.1386 | 0.1717 | 0.2042 | QuaF          |             | 0.2173 | -0.000006 |   |         |      |   |             | 1.0000        |   | 0.9900            |
| Epichlorohydrin             | 0.1774<br>0.2304 | 0.1678<br>0.2224 | 0.2000 | 0.2187 | 0.2253 | Ave           |             | 0.2060 |           |   |         | 12.1 |   | 20.0        |               |   |                   |
| cis-1,3-Dichloropropene     | ++++<br>0.6325   | 0.5189<br>0.5818 | 0.5804 | 0.6156 | 0.6377 | Ave           |             | 0.5945 |           |   | 0.2000  | 7.5  |   | 20.0        |               |   |                   |
| 4-Methyl-2-pentanone (MIBK) | ++++<br>2.2717   | 1.4231<br>2.0881 | 1.7690 | 2.1262 | 2.2435 | Lin2          | -3.850      | 2.1508 |           |   | 0.0500  |      |   |             | 0.9960        |   | 0.9900            |
| Toluene                     | ++++<br>1.5305   | 1.6196<br>1.3902 | 1.5020 | 1.5288 | 1.5468 | Ave           |             | 1.5196 |           |   | 0.4000  | 4.9  |   | 20.0        |               |   |                   |
| trans-1,3-Dichloropropene   | ++++<br>0.5812   | 0.5064<br>0.5479 | 0.5179 | 0.5328 | 0.5587 | Ave           |             | 0.5408 |           |   | 0.1000  | 5.1  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                      | RRF            |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |           | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------------|----------------|------------------|--------|--------|--------|---------------|-------------|--------|-----------|---|---------|------|---|-------------|---------------|---|-------------------|
|                              | LVL 1<br>LVL 6 | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2        |   |         |      |   |             |               |   |                   |
| Ethyl methacrylate           | ++++<br>0.4015 | 0.2345<br>0.3793 | 0.2468 | 0.3270 | 0.3769 | QuaF          |             | 0.4091 | -0.000059 |   |         |      |   |             | 1.0000        |   | 0.9900            |
| 1,1,2-Trichloroethane        | ++++<br>0.3297 | 0.3433<br>0.3114 | 0.3456 | 0.3406 | 0.3306 | Ave           |             | 0.3335 |           |   | 0.1000  | 3.8  |   | 20.0        |               |   |                   |
| Tetrachloroethene            | ++++<br>0.3928 | 0.3732<br>0.3705 | 0.3711 | 0.3952 | 0.3898 | Ave           |             | 0.3821 |           |   | 0.2000  | 3.1  |   | 20.0        |               |   |                   |
| 1,3-Dichloropropane          | ++++<br>0.5900 | 0.5436<br>0.5486 | 0.5720 | 0.5750 | 0.5933 | Ave           |             | 0.5704 |           |   |         | 3.6  |   | 20.0        |               |   |                   |
| 2-Hexanone                   | ++++<br>0.8504 | 0.3704<br>0.8319 | 0.5585 | 0.7250 | 0.8254 | Qua2          | -2.007      | 0.7502 | 0.0000445 |   | 0.0500  |      |   |             | 0.9920        |   | 0.9900            |
| n-Butyl acetate              | ++++<br>0.6518 | 0.4301<br>0.6174 | 0.5497 | 0.6252 | 0.6855 | Lin2          | -0.218      | 0.6397 |           |   |         |      |   |             | 0.9970        |   | 0.9900            |
| Chlorodibromomethane         | ++++<br>0.4264 | 0.3917<br>0.4059 | 0.4428 | 0.4238 | 0.4296 | Ave           |             | 0.4200 |           |   | 0.1000  | 4.4  |   | 20.0        |               |   |                   |
| Ethylene Dibromide           | ++++<br>0.3872 | 0.3738<br>0.3691 | 0.3861 | 0.3826 | 0.3844 | Ave           |             | 0.3805 |           |   | 0.1000  | 1.9  |   | 20.0        |               |   |                   |
| Chlorobenzene                | ++++<br>1.0226 | 1.0329<br>0.9399 | 1.0496 | 1.0317 | 1.0284 | Ave           |             | 1.0175 |           |   | 0.5000  | 3.8  |   | 20.0        |               |   |                   |
| Ethylbenzene                 | ++++<br>0.5435 | 0.4157<br>0.5176 | 0.4460 | 0.4852 | 0.5158 | Ave           |             | 0.4873 |           |   | 0.1000  | 9.9  |   | 20.0        |               |   |                   |
| 1,1,1,2-Tetrachloroethane    | ++++<br>0.3714 | 0.3729<br>0.3511 | 0.4021 | 0.3714 | 0.3700 | Ave           |             | 0.3732 |           |   |         | 4.4  |   | 20.0        |               |   |                   |
| m-Xylene & p-Xylene          | ++++<br>0.6467 | 0.3805<br>0.6163 | 0.4792 | 0.5631 | 0.6157 | Lin2          | -0.235      | 0.6003 |           |   | 0.1000  |      |   |             | 0.9940        |   | 0.9900            |
| o-Xylene                     | ++++<br>0.6532 | 0.3700<br>0.6172 | 0.4616 | 0.5473 | 0.6103 | Lin2          | -0.243      | 0.5950 |           |   | 0.3000  |      |   |             | 0.9920        |   | 0.9900            |
| n-Butyl acrylate             | ++++<br>0.3290 | 0.1455<br>0.3256 | 0.1812 | 0.2743 | 0.3113 | QuaF          |             | 0.3271 | -0.000003 |   |         |      |   |             | 1.0000        |   | 0.9900            |
| Styrene                      | ++++<br>1.1500 | 0.6626<br>1.0588 | 0.8348 | 1.0670 | 1.1118 | Lin2          | -0.440      | 1.0746 |           |   | 0.3000  |      |   |             | 0.9940        |   | 0.9900            |
| Bromoform                    | ++++<br>0.3149 | 0.2710<br>0.3048 | 0.2995 | 0.3038 | 0.3092 | Ave           |             | 0.3005 |           |   | 0.1000  | 5.1  |   | 20.0        |               |   |                   |
| Amyl acetate (mixed isomers) | ++++<br>1.3083 | 0.7466<br>1.2620 | 0.8248 | 1.1306 | 1.3280 | QuaF          |             | 1.3331 | -0.000142 |   |         |      |   |             | 1.0000        |   | 0.9900            |
| Isopropylbenzene             | ++++<br>1.5335 | 0.9180<br>1.4021 | 1.1138 | 1.3572 | 1.5135 | Lin2          | -0.543      | 1.4219 |           |   | 0.1000  |      |   |             | 0.9930        |   | 0.9900            |
| Bromobenzene                 | ++++<br>0.8539 | 0.7570<br>0.8290 | 0.7546 | 0.7723 | 0.8001 | Ave           |             | 0.7945 |           |   |         | 5.1  |   | 20.0        |               |   |                   |
| 1,1,2,2-Tetrachloroethane    | ++++<br>0.9292 | 1.0113<br>0.9082 | 0.9643 | 0.9621 | 0.9726 | Ave           |             | 0.9579 |           |   | 0.3000  | 3.7  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713  
SDG No.: \_\_\_\_\_  
Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                     | RRF            |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |           | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | #      | MIN R^2<br>OR COD |
|-----------------------------|----------------|------------------|--------|--------|--------|---------------|-------------|--------|-----------|---|---------|------|---|-------------|---------------|--------|-------------------|
|                             | LVL 1<br>LVL 6 | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2        |   |         |      |   |             |               |        |                   |
| N-Propylbenzene             | ++++<br>3.2353 | 2.2664<br>2.8976 | 2.4528 | 2.8781 | 3.1736 | Ave           |             | 2.8173 |           |   |         | 13.7 |   | 20.0        |               |        |                   |
| 1,2,3-Trichloropropane      | ++++<br>0.2279 | 0.2705<br>0.2159 | 0.2134 | 0.2383 | 0.2329 | Ave           |             | 0.2331 |           |   |         | 8.9  |   | 20.0        |               |        |                   |
| trans-1,4-Dichloro-2-butene | ++++<br>0.2463 | 0.2699<br>0.2345 | 0.2298 | 0.2613 | 0.2558 | Ave           |             | 0.2496 |           |   |         | 6.2  |   | 20.0        |               |        |                   |
| 2-Chlorotoluene             | ++++<br>2.3244 | 1.8097<br>2.1622 | 1.9712 | 2.1958 | 2.2796 | Ave           |             | 2.1238 |           |   |         | 9.3  |   | 20.0        |               |        |                   |
| 4-Ethyltoluene              | ++++<br>2.7097 | 1.7388<br>2.5126 | 2.1608 | 2.5607 | 2.7252 | Ave           |             | 2.4013 |           |   |         | 16.0 |   | 20.0        |               |        |                   |
| 1,3,5-Trimethylbenzene      | ++++<br>2.1969 | 1.4230<br>2.0545 | 1.7982 | 2.0690 | 2.2407 | Ave           |             | 1.9637 |           |   |         | 15.6 |   | 20.0        |               |        |                   |
| 4-Chlorotoluene             | ++++<br>2.1178 | 1.7192<br>2.0023 | 1.9410 | 2.1484 | 2.2336 | Ave           |             | 2.0270 |           |   |         | 9.1  |   | 20.0        |               |        |                   |
| Butyl Methacrylate          | ++++<br>0.9496 | 0.4835<br>0.9378 | 0.6050 | 0.8022 | 0.9211 | QuaF          |             | 0.9487 | -0.000021 |   |         |      |   | 1.0000      |               | 0.9900 |                   |
| tert-Butylbenzene           | ++++<br>1.7780 | 1.1400<br>1.6703 | 1.3451 | 1.5755 | 1.7262 | Ave           |             | 1.5392 |           |   |         | 16.1 |   | 20.0        |               |        |                   |
| 1,2,4-Trimethylbenzene      | ++++<br>2.3986 | 1.3887<br>2.1389 | 1.8579 | 2.2094 | 2.3921 | Lin2          | -0.909      | 2.2578 |           |   |         |      |   | 0.9950      |               | 0.9900 |                   |
| sec-Butylbenzene            | ++++<br>2.5359 | 1.5459<br>2.2851 | 1.8387 | 2.2372 | 2.4568 | Ave           |             | 2.1499 |           |   |         | 17.8 |   | 20.0        |               |        |                   |
| 1,3-Dichlorobenzene         | ++++<br>1.4844 | 1.3172<br>1.3958 | 1.3671 | 1.4321 | 1.4836 | Ave           |             | 1.4134 |           |   | 0.6000  | 4.7  |   | 20.0        |               |        |                   |
| 4-Isopropyltoluene          | ++++<br>2.2488 | 1.1986<br>1.9907 | 1.4735 | 1.9516 | 2.1285 | QuaF          |             | 2.3748 | -0.000765 |   |         |      |   | 1.0000      |               | 0.9900 |                   |
| 1,4-Dichlorobenzene         | ++++<br>1.5312 | 1.6894<br>1.4124 | 1.4674 | 1.4726 | 1.4728 | Ave           |             | 1.5076 |           |   | 0.5000  | 6.4  |   | 20.0        |               |        |                   |
| 1,2,3-Trimethylbenzene      | ++++<br>2.5472 | 2.1651<br>2.2759 | 2.2205 | 2.4717 | 2.5834 | Ave           |             | 2.3773 |           |   |         | 7.5  |   | 20.0        |               |        |                   |
| Benzyl chloride             | ++++<br>1.7119 | 1.4991<br>1.6029 | 1.4442 | 1.5538 | 1.7078 | Ave           |             | 1.5866 |           |   |         | 6.9  |   | 20.0        |               |        |                   |
| Indan                       | ++++<br>2.6093 | 2.0416<br>2.3522 | 2.1814 | 2.5498 | 2.7575 | Ave           |             | 2.4153 |           |   |         | 11.3 |   | 20.0        |               |        |                   |
| p-Diethylbenzene            | ++++<br>1.1875 | 0.8529<br>1.1054 | 0.9117 | 1.0795 | 1.1719 | Ave           |             | 1.0515 |           |   |         | 13.2 |   | 20.0        |               |        |                   |
| n-Butylbenzene              | ++++<br>1.0918 | 0.7906<br>1.0008 | 0.9391 | 1.0158 | 1.0861 | Ave           |             | 0.9874 |           |   |         | 11.3 |   | 20.0        |               |        |                   |
| 1,2-Dichlorobenzene         | ++++<br>1.4458 | 1.3282<br>1.3482 | 1.3486 | 1.4250 | 1.4514 | Ave           |             | 1.3912 |           |   | 0.4000  | 4.0  |   | 20.0        |               |        |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713  
SDG No.: \_\_\_\_\_  
Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                      | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |           | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|-----------|---|---------|------|---|-------------|---------------|---|-------------------|
|                              | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2        |   |         |      |   |             |               |   |                   |
| 1,2,4,5-Tetramethylbenzene   | ++++<br>2.1674   | 1.1734<br>1.9176 | 1.4105 | 1.8416 | 2.0605 | QuaF          |             | 2.2898 | -0.000742 |   |         |      |   |             | 1.0000        |   | 0.9900            |
| 1,2-Dibromo-3-Chloropropane  | ++++<br>0.1531   | 0.1530<br>0.1458 | 0.1425 | 0.1437 | 0.1579 | Ave           |             | 0.1493 |           |   | 0.0500  | 4.2  |   | 20.0        |               |   |                   |
| 1,3,5-Trichlorobenzene       | ++++<br>0.9121   | 0.8236<br>0.8423 | 0.8988 | 0.8451 | 0.9160 | Ave           |             | 0.8730 |           |   |         | 4.6  |   | 20.0        |               |   |                   |
| 1,2,4-Trichlorobenzene       | ++++<br>0.8664   | 0.8876<br>0.8032 | 0.7918 | 0.7944 | 0.8552 | Ave           |             | 0.8331 |           |   | 0.2000  | 5.0  |   | 20.0        |               |   |                   |
| Hexachlorobutadiene          | ++++<br>0.2868   | 0.4283<br>0.2638 | 0.2860 | 0.2805 | 0.2948 | Lin2          | 0.1501      | 0.2748 |           |   |         |      |   |             | 0.9970        |   | 0.9900            |
| Naphthalene                  | ++++<br>2.3492   | 2.2035<br>2.1222 | 1.9126 | 2.1227 | 2.3879 | Ave           |             | 2.1830 |           |   |         | 7.9  |   | 20.0        |               |   |                   |
| 1,2,3-Trichlorobenzene       | ++++<br>0.7604   | 0.9051<br>0.7172 | 0.7053 | 0.7051 | 0.7640 | Ave           |             | 0.7595 |           |   |         | 10.0 |   | 20.0        |               |   |                   |
| Dibromofluoromethane (Surr)  | 0.2763<br>0.2649 | 0.2838<br>0.2478 | 0.2746 | 0.2718 | 0.2645 | Ave           |             | 0.2691 |           |   |         | 4.3  |   | 20.0        |               |   |                   |
| 1,2-Dichloroethane-d4 (Surr) | 0.3025<br>0.2889 | 0.3150<br>0.2689 | 0.3014 | 0.2956 | 0.2866 | Ave           |             | 0.2941 |           |   |         | 5.0  |   | 20.0        |               |   |                   |
| Toluene-d8 (Surr)            | 1.1699<br>1.1640 | 1.2138<br>1.1301 | 1.2602 | 1.2240 | 1.1837 | Ave           |             | 1.1922 |           |   |         | 3.6  |   | 20.0        |               |   |                   |
| 4-Bromofluorobenzene         | 0.3602<br>0.3839 | 0.3624<br>0.3834 | 0.3876 | 0.3754 | 0.3857 | Ave           |             | 0.3770 |           |   |         | 3.0  |   | 20.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

Calibration Files:

|         |                     |              |
|---------|---------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:      | LAB FILE ID: |
| Level 1 | STD7 460-553713/3   | J75066.D     |
| Level 2 | STD1 460-553713/15  | J75078.D     |
| Level 3 | STD5 460-553713/5   | J75068.D     |
| Level 4 | STD20 460-553713/6  | J75069.D     |
| Level 5 | STD50 460-553713/7  | J75070.D     |
| Level 6 | STD200 460-553713/8 | J75071.D     |
| Level 7 | STD500 460-553713/9 | J75072.D     |

| ANALYTE                               | IS REF    | CURVE TYPE | RESPONSE        |                 |       |        |        | CONCENTRATION (UG/L) |                |       |       |       |
|---------------------------------------|-----------|------------|-----------------|-----------------|-------|--------|--------|----------------------|----------------|-------|-------|-------|
|                                       |           |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7  | LVL 3 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Chlorotrifluoroethene                 | FB        | Ave        | ++++<br>125102  | 586<br>309560   | 3257  | 15022  | 29978  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Dichlorodifluoromethane               | FB        | Ave        | ++++<br>1087770 | 4008<br>2788374 | 23307 | 90539  | 252633 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Chloromethane                         | FB        | Ave        | ++++<br>1246640 | 4806<br>3183185 | 27832 | 114315 | 283640 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Vinyl chloride                        | FB        | Ave        | ++++<br>1120482 | 4953<br>2831314 | 26327 | 106410 | 256709 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Butadiene                             | FB        | Ave        | 801<br>1060600  | 4212<br>2651544 | 22037 | 91043  | 214216 | 0.250<br>200         | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Bromomethane                          | FB        | Lin2       | ++++<br>550045  | 4046<br>1294972 | 13562 | 46294  | 133428 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Chloroethane                          | FB        | Ave        | ++++<br>552722  | 2737<br>1360146 | 12449 | 49065  | 125553 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Trichlorofluoromethane                | FB        | Ave        | ++++<br>896867  | 4672<br>++++    | 27403 | 109922 | 268658 | ++++<br>200          | 1.00<br>++++   | 5.00  | 20.0  | 50.0  |
| Dichlorofluoromethane                 | FB        | Ave        | ++++<br>1526546 | 7638<br>3819471 | 34492 | 140502 | 345613 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Pentane                               | TBAd<br>9 | Ave        | ++++<br>217412  | 801<br>568871   | 4463  | 18172  | 54624  | ++++<br>400          | 2.00<br>1000   | 10.0  | 40.0  | 100   |
| Ethanol                               | TBAd<br>9 | Ave        | ++++<br>184400  | 1021<br>488369  | 3856  | 19115  | 49310  | ++++<br>8000         | 40.0<br>16000  | 200   | 800   | 2000  |
| Ethyl ether                           | FB        | Ave        | ++++<br>637657  | 2806<br>1522241 | 14829 | 56403  | 153122 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 2-Methyl-1,3-butadiene                | FB        | Ave        | ++++<br>759698  | 2208<br>1901215 | 14936 | 63449  | 189725 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,2-Dichloro-1,1,2-trifluoroethane    | FB        | Ave        | ++++<br>606330  | 2383<br>1749896 | 14176 | 58024  | 149667 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | FB        | Ave        | ++++<br>710733  | 2749<br>1808046 | 15780 | 67798  | 174108 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                  | IS REF | CURVE TYPE | RESPONSE        |                  |       |        |        | CONCENTRATION (UG/L) |                |       |       |       |
|--------------------------|--------|------------|-----------------|------------------|-------|--------|--------|----------------------|----------------|-------|-------|-------|
|                          |        |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Acrolein                 | TBAd 9 | Ave        | ++++<br>157886  | 2850<br>333935   | 14619 | 29550  | 73955  | ++++<br>200          | 4.00<br>500    | 20.0  | 40.0  | 100   |
| 1,1-Dichloroethene       | FB     | Ave        | ++++<br>699519  | 2998<br>1793793  | 15457 | 62313  | 162725 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Acetone                  | BUT    | Ave        | ++++<br>1173513 | 6377<br>2974154  | 30891 | 120313 | 299705 | ++++<br>1000         | 5.00<br>2500   | 25.0  | 100   | 250   |
| Iodomethane              | FB     | Ave        | ++++<br>1239282 | 4833<br>3165347  | 20000 | 93306  | 273961 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Carbon disulfide         | FB     | Ave        | ++++<br>2623396 | 13422<br>6551594 | 62978 | 250245 | 640354 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Isopropyl alcohol        | TBAd 9 | Ave        | ++++<br>531363  | 2836<br>1486197  | 13016 | 53005  | 144617 | ++++<br>2000         | 10.0<br>5000   | 50.0  | 200   | 500   |
| Allyl chloride           | FB     | Ave        | ++++<br>397013  | 2292<br>1045822  | 10639 | 42977  | 115054 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Cyclopentene             | FB     | Ave        | ++++<br>2035701 | 6506<br>5277596  | 40635 | 171573 | 512455 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Methyl acetate           | FB     | Ave        | ++++<br>1429037 | 6275<br>3379193  | 33460 | 142738 | 374507 | ++++<br>400          | 2.00<br>1000   | 10.0  | 40.0  | 100   |
| Acetonitrile             | TBAd 9 | Ave        | ++++<br>1212588 | 5592<br>3335441  | 30363 | 124568 | 321540 | ++++<br>2000         | 10.0<br>5000   | 50.0  | 200   | 500   |
| Methylene Chloride       | FB     | Lin2       | ++++<br>859748  | 5228<br>2140275  | 21263 | 80685  | 206537 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 2-Methyl-2-propanol      | TBAd 9 | Ave        | ++++<br>803023  | 4289<br>2131104  | 18411 | 75877  | 201052 | ++++<br>2000         | 10.0<br>5000   | 50.0  | 200   | 500   |
| Methyl tert-butyl ether  | FB     | Ave        | ++++<br>2134213 | 8415<br>5340334  | 44777 | 189943 | 511711 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| trans-1,2-Dichloroethene | FB     | Ave        | ++++<br>775805  | 3487<br>2051585  | 18626 | 70746  | 185882 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Acrylonitrile            | TBAd 9 | Ave        | 3368<br>3500588 | 16667<br>7960180 | 83121 | 345054 | 887528 | 2.00<br>2000         | 10.0<br>5000   | 50.0  | 200   | 500   |
| Hexane                   | FB     | Ave        | ++++<br>837693  | 3404<br>2059836  | 20186 | 76532  | 195540 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Isopropyl ether          | FB     | Ave        | ++++<br>2880971 | 10869<br>7064487 | 62041 | 260449 | 695820 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,1-Dichloroethane       | FB     | Ave        | ++++<br>1505531 | 7013<br>3667275  | 35104 | 138083 | 361369 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Vinyl acetate            | FB     | Ave        | ++++<br>3101862 | 15739<br>7834859 | 74610 | 320867 | 779081 | ++++<br>400          | 2.00<br>1000   | 10.0  | 40.0  | 100   |
| 2-Chloro-1,3-butadiene   | FB     | Ave        | ++++<br>724552  | 3112<br>1869718  | 15455 | 63078  | 173608 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Tert-butyl ethyl ether   | FB     | Ave        | ++++<br>2442622 | 8886<br>6176632  | 50673 | 216383 | 585992 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                | IS<br>REF  | CURVE<br>TYPE | RESPONSE        |                  |       |        |        | CONCENTRATION (UG/L) |                |       |       |       |
|------------------------|------------|---------------|-----------------|------------------|-------|--------|--------|----------------------|----------------|-------|-------|-------|
|                        |            |               | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 2,2-Dichloropropane    | FB         | Lin2          | ++++<br>359106  | 2384<br>900900   | 8788  | 33814  | 87220  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| cis-1,2-Dichloroethene | FB         | Ave           | ++++<br>912754  | 3958<br>2374422  | 20166 | 83023  | 218472 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 2-Butanone (MEK)       | BUT        | Ave           | ++++<br>477446  | 2500<br>1272031  | 11436 | 46620  | 123845 | ++++<br>1000         | 5.00<br>2500   | 25.0  | 100   | 250   |
| Ethyl acetate          | BUT        | Ave           | ++++<br>189042  | 925<br>501996    | 4502  | 18807  | 48393  | ++++<br>400          | 2.00<br>1000   | 10.0  | 40.0  | 100   |
| Methyl acrylate        | FB         | Ave           | ++++<br>832598  | 3989<br>2153645  | 18141 | 76084  | 205274 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Propionitrile          | TBAd<br>9  | Ave           | ++++<br>1365636 | 6660<br>3529427  | 31783 | 133787 | 350402 | ++++<br>2000         | 10.0<br>5000   | 50.0  | 200   | 500   |
| Chlorobromomethane     | FB         | Ave           | ++++<br>447828  | 2025<br>1133662  | 9721  | 40675  | 105476 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Tetrahydrofuran        | BUT        | Ave           | ++++<br>216900  | 766<br>580759    | 4216  | 20470  | 54280  | ++++<br>400          | 2.00<br>1000   | 10.0  | 40.0  | 100   |
| Methacrylonitrile      | FB         | Ave           | ++++<br>3711946 | 15125<br>8608738 | 77095 | 345656 | 936902 | ++++<br>2000         | 10.0<br>5000   | 50.0  | 200   | 500   |
| Chloroform             | FB         | Ave           | ++++<br>1418632 | 6157<br>3358490  | 31192 | 131798 | 332662 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Cyclohexane            | FB         | Ave           | ++++<br>1036985 | 2965<br>2549170  | 19399 | 86191  | 236490 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,1,1-Trichloroethane  | FB         | Ave           | ++++<br>1141603 | 4474<br>2768412  | 26188 | 103894 | 270139 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Carbon tetrachloride   | FB         | Ave           | ++++<br>970691  | 4114<br>2479881  | 22196 | 91087  | 235709 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,1-Dichloropropene    | FB         | Ave           | ++++<br>1052757 | 3939<br>2730419  | 21606 | 90206  | 246312 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 2,2,4-Trimethylpentane | FB         | Ave           | ++++<br>1492638 | 4680<br>3812669  | 28710 | 127428 | 353627 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Isobutyl alcohol       | TBAd<br>9  | Ave           | ++++<br>1232932 | 4113<br>3206490  | 22402 | 108056 | 292583 | ++++<br>5000         | 25.0<br>12500  | 125   | 500   | 1250  |
| Benzene                | CBNZ<br>d5 | Ave           | ++++<br>3228005 | 12361<br>7933478 | 68525 | 295005 | 773701 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Isopropyl acetate      | FB         | Ave           | ++++<br>2499835 | 8233<br>6198650  | 48948 | 217168 | 601747 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Tert-amyl methyl ether | FB         | Lin2          | ++++<br>664714  | 1685<br>1771072  | 12296 | 54748  | 158751 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,2-Dichloroethane     | FB         | Ave           | ++++<br>1025778 | 5222<br>2531771  | 24078 | 97371  | 251884 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| n-Heptane              | FB         | Ave           | ++++<br>327707  | 1360<br>818017   | 6605  | 28462  | 77851  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                     | IS REF  | CURVE TYPE | RESPONSE        |                   |       |        |         | CONCENTRATION (UG/L) |                |       |       |       |
|-----------------------------|---------|------------|-----------------|-------------------|-------|--------|---------|----------------------|----------------|-------|-------|-------|
|                             |         |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7    | LVL 3 | LVL 4  | LVL 5   | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| n-Butanol                   | TBAd 9  | Ave        | ++++<br>569477  | 1779<br>1651309   | 8921  | 44588  | 133352  | ++++<br>5000         | 25.0<br>12500  | 125   | 500   | 1250  |
| Trichloroethene             | FB      | Ave        | ++++<br>825596  | 3191<br>2133961   | 16657 | 73580  | 193734  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Methylcyclohexane           | FB      | Lin2       | ++++<br>1033068 | 2282<br>2620220   | 16608 | 84505  | 236951  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Ethyl acrylate              | FB      | Ave        | ++++<br>1408783 | 4278<br>3779460   | 23005 | 118114 | 336135  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,2-Dichloropropane         | FB      | Ave        | ++++<br>889723  | 3476<br>2259615   | 19139 | 80823  | 211159  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Methyl methacrylate         | FB      | Ave        | ++++<br>420585  | 1360<br>1138865   | 7561  | 36110  | 101992  | ++++<br>400          | 2.00<br>1000   | 10.0  | 40.0  | 100   |
| 1,4-Dioxane                 | DXE     | Ave        | ++++<br>208502  | 1969<br>573899    | 3697  | 18177  | 51482   | ++++<br>4000         | 50.0<br>10000  | 100   | 400   | 1000  |
| Dibromomethane              | FB      | Ave        | ++++<br>573958  | 2550<br>1473275   | 12646 | 52603  | 138113  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| n-Propyl acetate            | FB      | Ave        | ++++<br>1336965 | 5587<br>3521803   | 25672 | 122620 | 339347  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Dichlorobromomethane        | FB      | Ave        | ++++<br>1146968 | 4633<br>2871323   | 24152 | 102727 | 270798  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 2-Nitropropane              | TBAd 9  | Ave        | ++++<br>430751  | 2428<br>1130812   | 9926  | 39076  | 105360  | ++++<br>400          | 2.00<br>1000   | 10.0  | 40.0  | 100   |
| 2-Chloroethyl vinyl ether   | FB      | QuaF       | ++++<br>585750  | 1374<br>1556232   | 8269  | 42534  | 130019  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Epichlorohydrin             | BUT     | Ave        | 1549<br>1783303 | 5830<br>4449075   | 35694 | 163560 | 435712  | 5.00<br>4000         | 20.0<br>10000  | 100   | 400   | 1000  |
| cis-1,3-Dichloropropene     | CBNZ d5 | Ave        | ++++<br>1386253 | 4295<br>3447165   | 25633 | 117642 | 321329  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 4-Methyl-2-pentanone (MIBK) | BUT     | Lin2       | ++++<br>4394912 | 12364<br>10442277 | 78938 | 397606 | 1084574 | ++++<br>1000         | 5.00<br>2500   | 25.0  | 100   | 250   |
| Toluene                     | CBNZ d5 | Ave        | ++++<br>3354463 | 13406<br>8237538  | 66337 | 292144 | 779425  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| trans-1,3-Dichloropropene   | CBNZ d5 | Ave        | ++++<br>1273892 | 4192<br>3246769   | 22873 | 101820 | 281518  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Ethyl methacrylate          | FB      | QuaF       | ++++<br>1078498 | 2650<br>2757966   | 14719 | 80997  | 240011  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,1,2-Trichloroethane       | CBNZ d5 | Ave        | ++++<br>722676  | 2842<br>1844918   | 15262 | 65089  | 166600  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Tetrachloroethene           | CBNZ d5 | Ave        | ++++<br>860801  | 3089<br>2195497   | 16391 | 75527  | 196430  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,3-Dichloropropane         | CBNZ d5 | Ave        | ++++<br>1293165 | 4500<br>3250699   | 25263 | 109873 | 298942  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                      | IS REF     | CURVE TYPE | RESPONSE        |                  |       |        |        | CONCENTRATION (UG/L) |                |       |       |       |
|------------------------------|------------|------------|-----------------|------------------|-------|--------|--------|----------------------|----------------|-------|-------|-------|
|                              |            |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 2-Hexanone                   | BUT        | Qua2       | ++++<br>1645127 | 3218<br>4160165  | 24923 | 135574 | 399013 | ++++<br>1000         | 5.00<br>2500   | 25.0  | 100   | 250   |
| n-Butyl acetate              | CBNZ<br>d5 | Lin2       | ++++<br>1428530 | 3560<br>3658484  | 24280 | 119474 | 345424 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Chlorodibromomethane         | CBNZ<br>d5 | Ave        | ++++<br>934505  | 3242<br>2405172  | 19559 | 80988  | 216490 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Ethylene Dibromide           | CBNZ<br>d5 | Ave        | ++++<br>848679  | 3094<br>2186844  | 17053 | 73106  | 193706 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Chlorobenzene                | CBNZ<br>d5 | Ave        | ++++<br>2241276 | 8550<br>5569650  | 46357 | 197153 | 518207 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Ethylbenzene                 | CBNZ<br>d5 | Ave        | ++++<br>1191276 | 3441<br>3066905  | 19698 | 92717  | 259926 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,1,1,2-Tetrachloroethane    | CBNZ<br>d5 | Ave        | ++++<br>813938  | 3087<br>2080588  | 17759 | 70974  | 186427 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| m-Xylene & p-Xylene          | CBNZ<br>d5 | Lin2       | ++++<br>1417351 | 3150<br>3651807  | 21164 | 107612 | 310250 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| o-Xylene                     | CBNZ<br>d5 | Lin2       | ++++<br>1431585 | 3063<br>3657337  | 20389 | 104593 | 307534 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| n-Butyl acrylate             | CBNZ<br>d5 | QuaF       | ++++<br>721107  | 1204<br>1929407  | 8002  | 52424  | 156859 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Styrene                      | CBNZ<br>d5 | Lin2       | ++++<br>2520531 | 5485<br>6273838  | 36872 | 203903 | 560234 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Bromoform                    | CBNZ<br>d5 | Ave        | ++++<br>690100  | 2243<br>1806114  | 13227 | 58048  | 155780 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Amyl acetate (mixed isomers) | DCBd<br>4  | QuaF       | ++++<br>1612085 | 3464<br>4191807  | 21190 | 123005 | 376851 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Isopropylbenzene             | CBNZ<br>d5 | Lin2       | ++++<br>3360931 | 7599<br>8308215  | 49193 | 259352 | 762626 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Bromobenzene                 | DCBd<br>4  | Ave        | ++++<br>1052159 | 3512<br>2753427  | 19387 | 84023  | 227034 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,1,2,2-Tetrachloroethane    | DCBd<br>4  | Ave        | ++++<br>1144921 | 4692<br>3016589  | 24774 | 104673 | 275988 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| N-Propylbenzene              | DCBd<br>4  | Ave        | ++++<br>3986519 | 10515<br>9624403 | 63019 | 313113 | 900562 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,2,3-Trichloropropane       | DCBd<br>4  | Ave        | ++++<br>280787  | 1255<br>717153   | 5482  | 25928  | 66090  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| trans-1,4-Dichloro-2-butene  | DCBd<br>4  | Ave        | ++++<br>303465  | 1252<br>778861   | 5905  | 28425  | 72585  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 2-Chlorotoluene              | DCBd<br>4  | Ave        | ++++<br>2864021 | 8396<br>7181734  | 50644 | 238890 | 646879 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 4-Ethyltoluene               | DCBd<br>4  | Ave        | ++++<br>3338876 | 8067<br>8345677  | 55515 | 278585 | 773325 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                     | IS REF | CURVE TYPE | RESPONSE        |                  |       |        |        | CONCENTRATION (UG/L) |                |       |       |       |
|-----------------------------|--------|------------|-----------------|------------------|-------|--------|--------|----------------------|----------------|-------|-------|-------|
|                             |        |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7   | LVL 3 | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 1,3,5-Trimethylbenzene      | DCBd 4 | Ave        | ++++<br>2706952 | 6602<br>6824121  | 46199 | 225088 | 635834 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 4-Chlorotoluene             | DCBd 4 | Ave        | ++++<br>2609499 | 7976<br>6650564  | 49870 | 233726 | 633825 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Butyl Methacrylate          | DCBd 4 | QuaF       | ++++<br>1170105 | 2243<br>3114808  | 15545 | 87279  | 261389 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| tert-Butylbenzene           | DCBd 4 | Ave        | ++++<br>2190846 | 5289<br>5547824  | 34558 | 171401 | 489842 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,2,4-Trimethylbenzene      | DCBd 4 | Lin2       | ++++<br>2955469 | 6443<br>7104254  | 47734 | 240372 | 678810 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| sec-Butylbenzene            | DCBd 4 | Ave        | ++++<br>3124718 | 7172<br>7589966  | 47240 | 243387 | 697145 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,3-Dichlorobenzene         | DCBd 4 | Ave        | ++++<br>1829084 | 6111<br>4636270  | 35124 | 155802 | 420989 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 4-Isopropyltoluene          | DCBd 4 | QuaF       | ++++<br>2770916 | 5561<br>6612021  | 37859 | 212318 | 603987 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,4-Dichlorobenzene         | DCBd 4 | Ave        | ++++<br>1886767 | 7838<br>4691128  | 37701 | 160206 | 417945 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,2,3-Trimethylbenzene      | DCBd 4 | Ave        | ++++<br>3138585 | 10045<br>7559244 | 57051 | 268905 | 733076 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Benzyl chloride             | DCBd 4 | Ave        | ++++<br>2109384 | 6955<br>5323927  | 37105 | 169047 | 484614 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Indan                       | DCBd 4 | Ave        | ++++<br>3215179 | 9472<br>7812669  | 56045 | 277398 | 782500 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| p-Diethylbenzene            | DCBd 4 | Ave        | ++++<br>1463172 | 3957<br>3671662  | 23424 | 117443 | 332552 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| n-Butylbenzene              | DCBd 4 | Ave        | ++++<br>1345301 | 3668<br>3324293  | 24129 | 110508 | 308194 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,2-Dichlorobenzene         | DCBd 4 | Ave        | ++++<br>1781541 | 6162<br>4477864  | 34650 | 155035 | 411850 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,2,4,5-Tetramethylbenzene  | DCBd 4 | QuaF       | ++++<br>2670626 | 5444<br>6369122  | 36239 | 200352 | 584711 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,2-Dibromo-3-Chloropropane | DCBd 4 | Ave        | ++++<br>188618  | 710<br>484127    | 3661  | 15633  | 44820  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,3,5-Trichlorobenzene      | DCBd 4 | Ave        | ++++<br>1123916 | 3821<br>2797754  | 23092 | 91941  | 259929 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| 1,2,4-Trichlorobenzene      | DCBd 4 | Ave        | ++++<br>1067509 | 4118<br>2667704  | 20344 | 86424  | 242682 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Hexachlorobutadiene         | DCBd 4 | Lin2       | ++++<br>353383  | 1987<br>876048   | 7349  | 30519  | 83659  | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Naphthalene                 | DCBd 4 | Ave        | ++++<br>2894620 | 10223<br>7048797 | 49138 | 230937 | 677604 | ++++<br>200          | 1.00<br>500    | 5.00  | 20.0  | 50.0  |

FORM VI  
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 553713

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2018 12:25 Calibration End Date: 09/20/2018 21:24 Calibration ID: 71237

| ANALYTE                      | IS<br>REF  | CURVE<br>TYPE | RESPONSE         |                  |        |        |        | CONCENTRATION (UG/L) |                |       |       |       |
|------------------------------|------------|---------------|------------------|------------------|--------|--------|--------|----------------------|----------------|-------|-------|-------|
|                              |            |               | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  | LVL 1<br>LVL 6       | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 1,2,3-Trichlorobenzene       | DCBd<br>4  | Ave           | +++++<br>936937  | 4199<br>2382068  | 18121  | 76705  | 216811 | +++++<br>200         | 1.00<br>500    | 5.00  | 20.0  | 50.0  |
| Dibromofluoromethane (Surr)  | FB         | Ave           | 164099<br>177912 | 160311<br>180154 | 163791 | 168321 | 168460 | 50.0<br>50.0         | 50.0<br>50.0   | 50.0  | 50.0  | 50.0  |
| 1,2-Dichloroethane-d4 (Surr) | FB         | Ave           | 179605<br>193995 | 177983<br>195519 | 179780 | 183029 | 182491 | 50.0<br>50.0         | 50.0<br>50.0   | 50.0  | 50.0  | 50.0  |
| Toluene-d8 (Surr)            | CBNZ<br>d5 | Ave           | 509426<br>637764 | 502359<br>669653 | 556593 | 584763 | 596458 | 50.0<br>50.0         | 50.0<br>50.0   | 50.0  | 50.0  | 50.0  |
| 4-Bromofluorobenzene         | CBNZ<br>d5 | Ave           | 156862<br>210365 | 149997<br>227210 | 171197 | 179341 | 194331 | 50.0<br>50.0         | 50.0<br>50.0   | 50.0  | 50.0  | 50.0  |

Curve Type Legend:

Ave = Average ISTD  
Lin2 = Linear 1/conc^2 ISTD  
Qua2 = Quadratic 1/conc^2 ISTD  
QuaF = Quadratic ISTD forced zero



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D  
 Lims ID: STD7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 20-Sep-2018 12:25:30 ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: STD7  
 Misc. Info.: 460-0078971-003  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 21-Sep-2018 15:37:58 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK007

First Level Reviewer: pakanatir

Date: 20-Sep-2018 17:54:43

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| 5 Butadiene                      | 54  | 1.456        | 1.456            | 0.000            | 75 | 801      | 0.2500          | 0.1907            |       |
| * 27 TBA-d9 (IS)                 | 65  | 2.723        | 2.723            | 0.000            | 0  | 318712   | 1000.0          | 1000.0            |       |
| 31 Acrylonitrile                 | 53  | 2.974        | 2.974            | 0.000            | 92 | 3368     | 2.00            | 2.10              |       |
| * 39 2-Butanone-d5               | 46  | 3.728        | 3.728            | 0.000            | 0  | 436606   | 250.0           | 250.0             |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.173        | 4.173            | 0.000            | 97 | 164099   | 50.0            | 51.3              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.515        | 4.515            | 0.000            | 0  | 179605   | 50.0            | 51.4              |       |
| * 62 Fluorobenzene               | 96  | 4.767        | 4.767            | 0.000            | 99 | 593822   | 50.0            | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.463        | 5.463            | 0.000            | 0  | 29093    | 1000.0          | 1000.0            |       |
| 76 Epichlorohydrin               | 57  | 6.125        | 6.125            | 0.000            | 96 | 1549     | 5.00            | 4.31              |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.399        | 6.399            | 0.000            | 99 | 509426   | 50.0            | 49.1              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.180        | 8.180            | 0.000            | 86 | 435430   | 50.0            | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.653        | 9.653            | 0.000            | 97 | 156862   | 50.0            | 47.8              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.623       | 10.623           | 0.000            | 95 | 232178   | 50.0            | 50.0              |       |

**Reagents:**

|                     |                     |           |             |
|---------------------|---------------------|-----------|-------------|
| 14DIOXINTER_00088   | Amount Added: 30.00 | Units: uL |             |
| MIX I Hi_00097      | Amount Added: 0.00  | Units: uL |             |
| MIX 2 Hi_00074      | Amount Added: 0.00  | Units: uL |             |
| Ethanol mix_00019   | Amount Added: 0.00  | Units: uL |             |
| ACRY/EPIH MIX_00053 | Amount Added: 20.00 | Units: uL |             |
| GAS Hi_00272        | Amount Added: 0.00  | Units: uL |             |
| GASES Li_00278      | Amount Added: 2.50  | Units: uL |             |
| ACROLEIN W_00080    | Amount Added: 0.00  | Units: uL |             |
| 8260ISNEW_00119     | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00181   | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD7

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

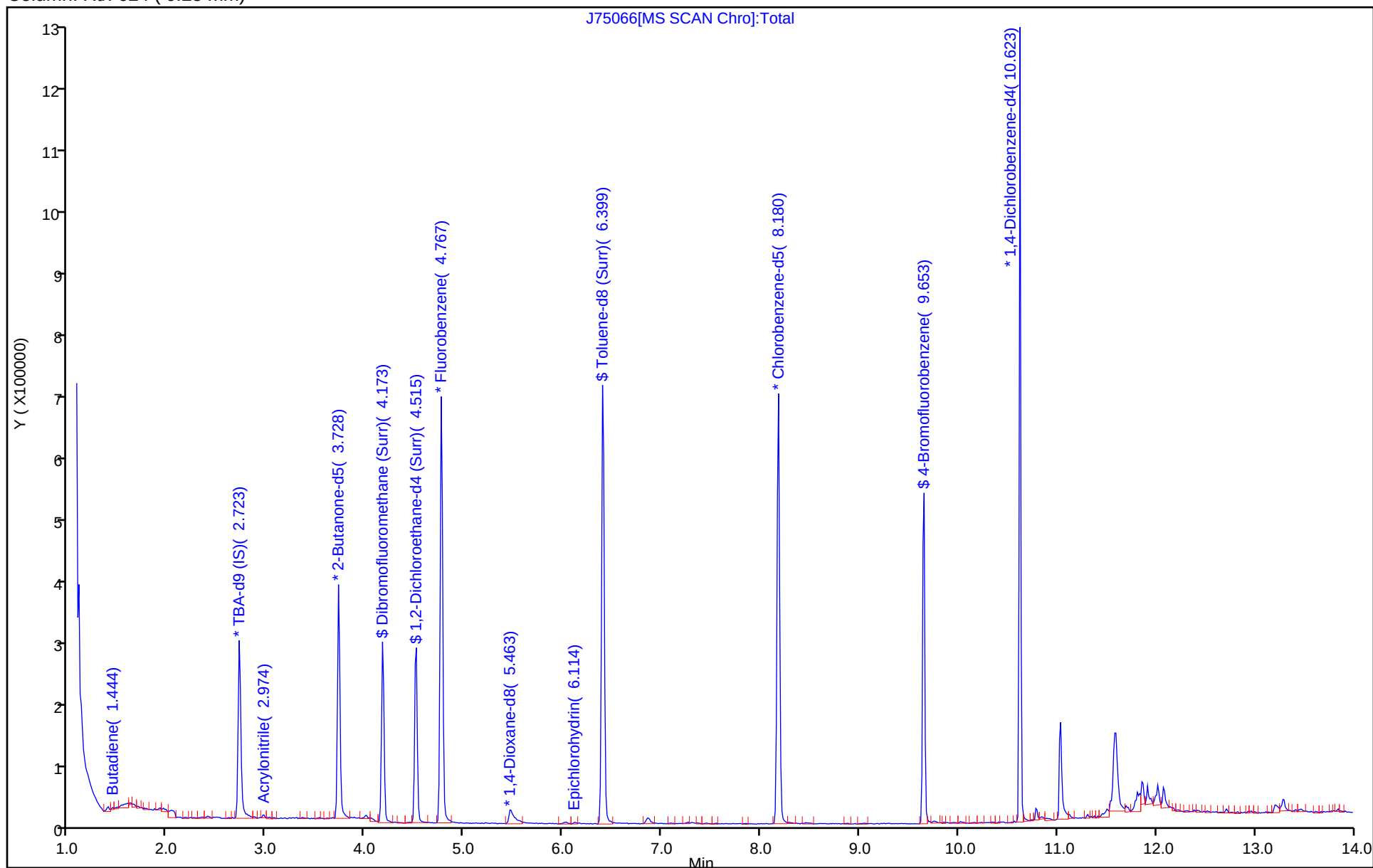
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

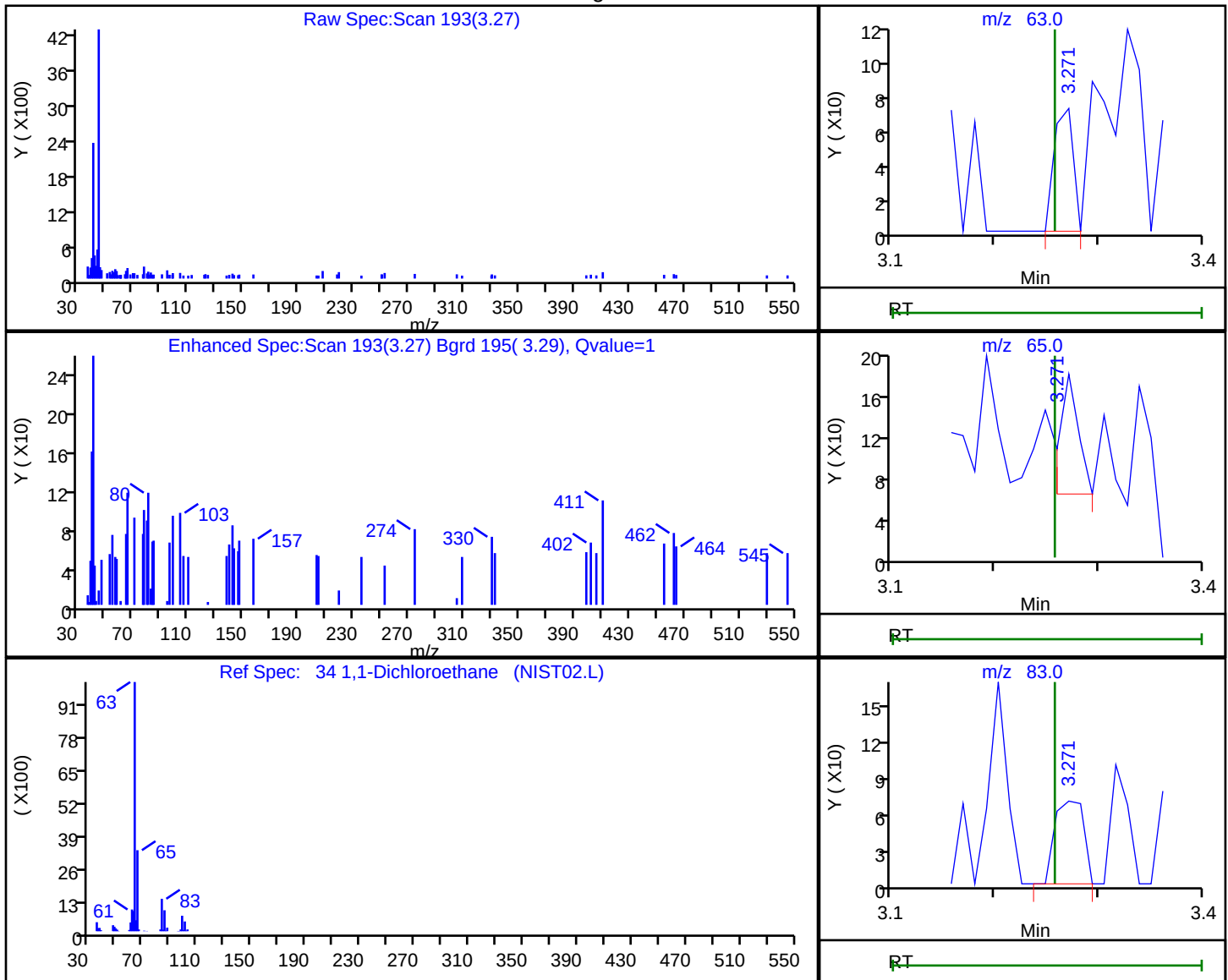
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 34 1,1-Dichloroethane, CAS: 75-34-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.27 | 63.00 | 94       | 0.013992 |
| 3.27 | 65.00 | 145      |          |
| 3.27 | 83.00 | 129      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

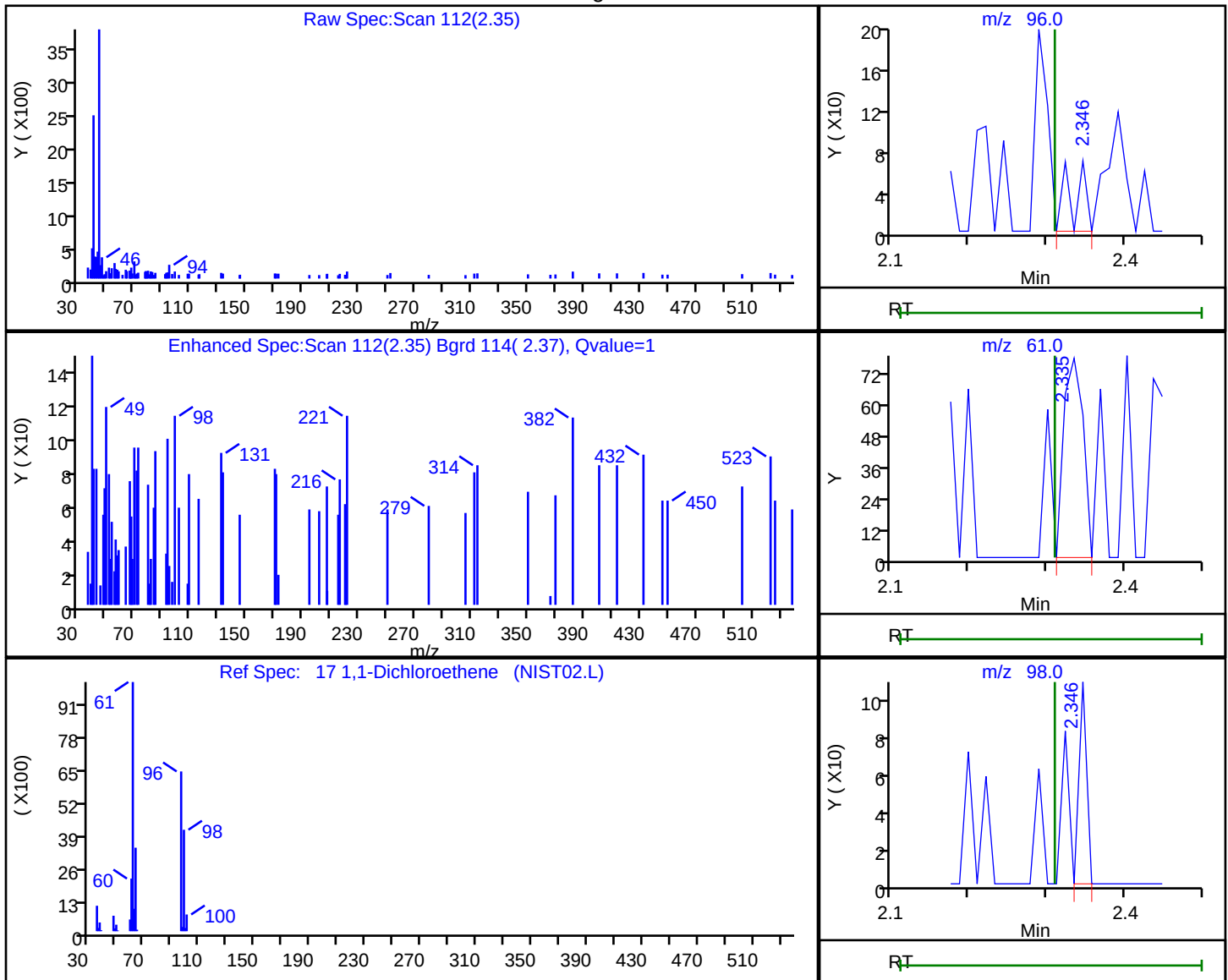
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 17 1,1-Dichloroethene, CAS: 75-35-4

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.35 | 96.00 | 94       | 0.030648 |
| 2.33 | 61.00 | 136      |          |
| 2.35 | 98.00 | 73       |          |
| 2.35 | 63.00 | 249      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

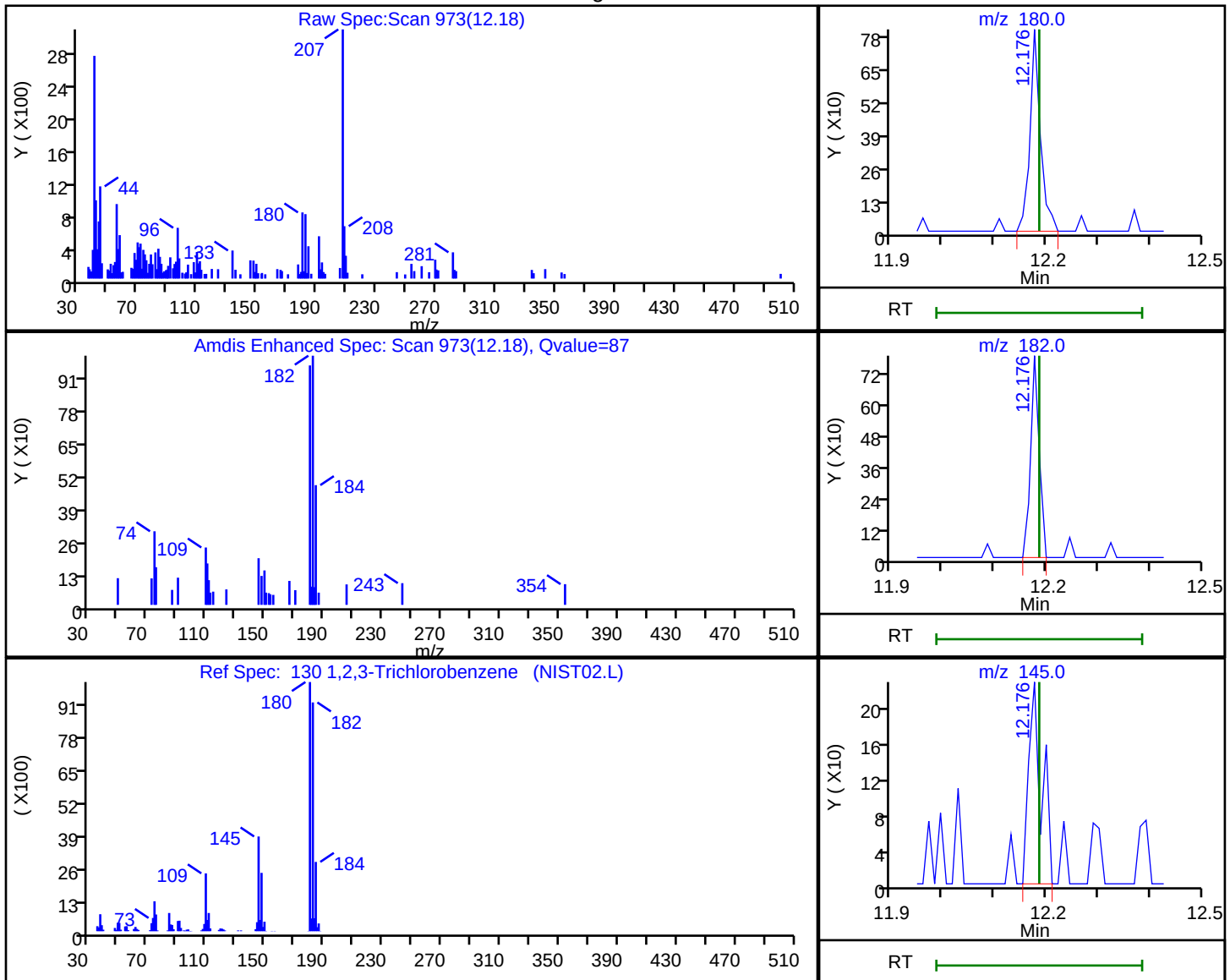
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 130 1,2,3-Trichlorobenzene, CAS: 87-61-6

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 12.18 | 180.00 | 1143     | 0.327576 |
| 12.18 | 182.00 | 911      |          |
| 12.18 | 145.00 | 386      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

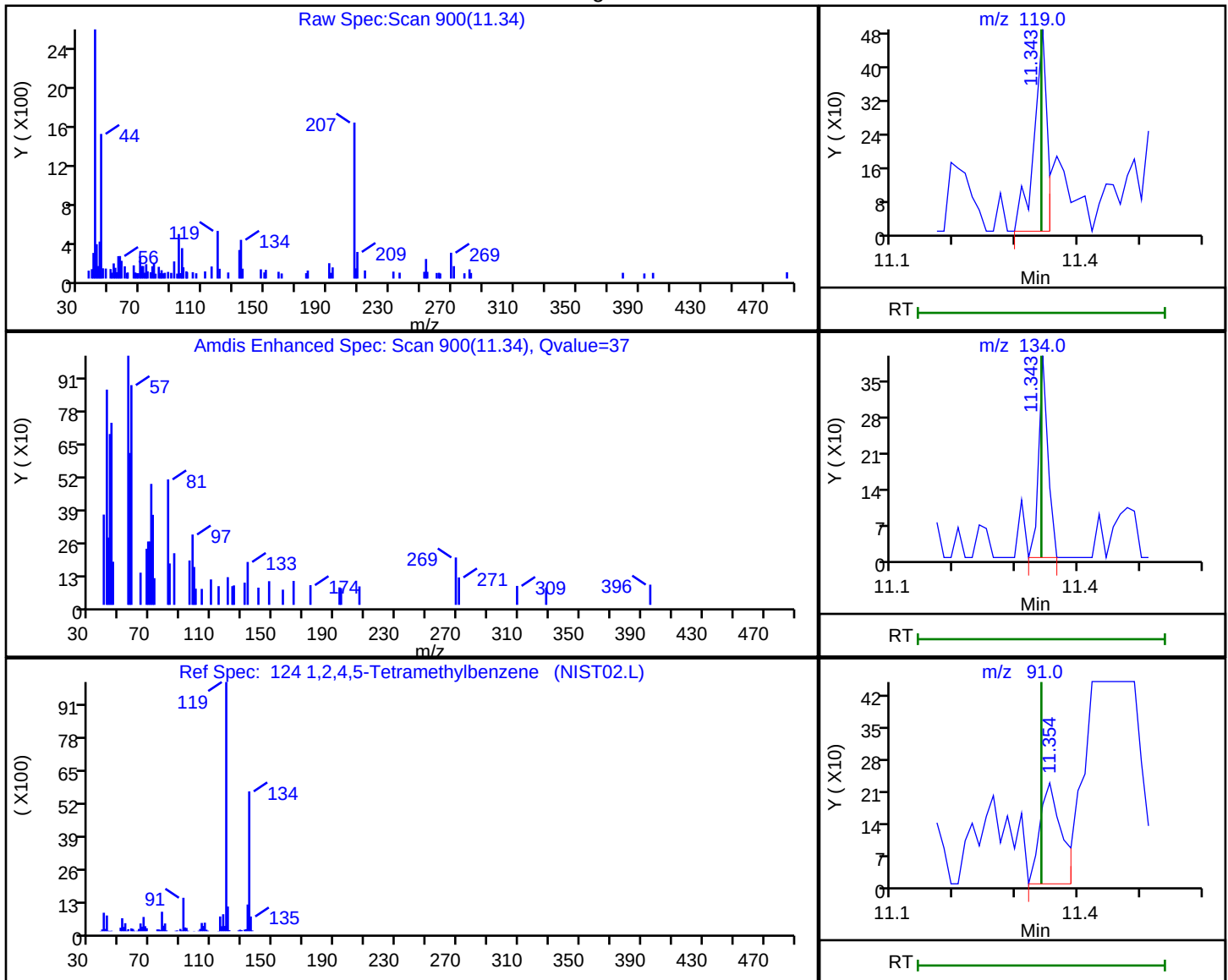
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 124 1,2,4,5-Tetramethylbenzene, CAS: 95-93-2

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.34 | 119.00 | 720      | 0.086067 |
| 11.34 | 134.00 | 406      |          |
| 11.35 | 91.00  | 539      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

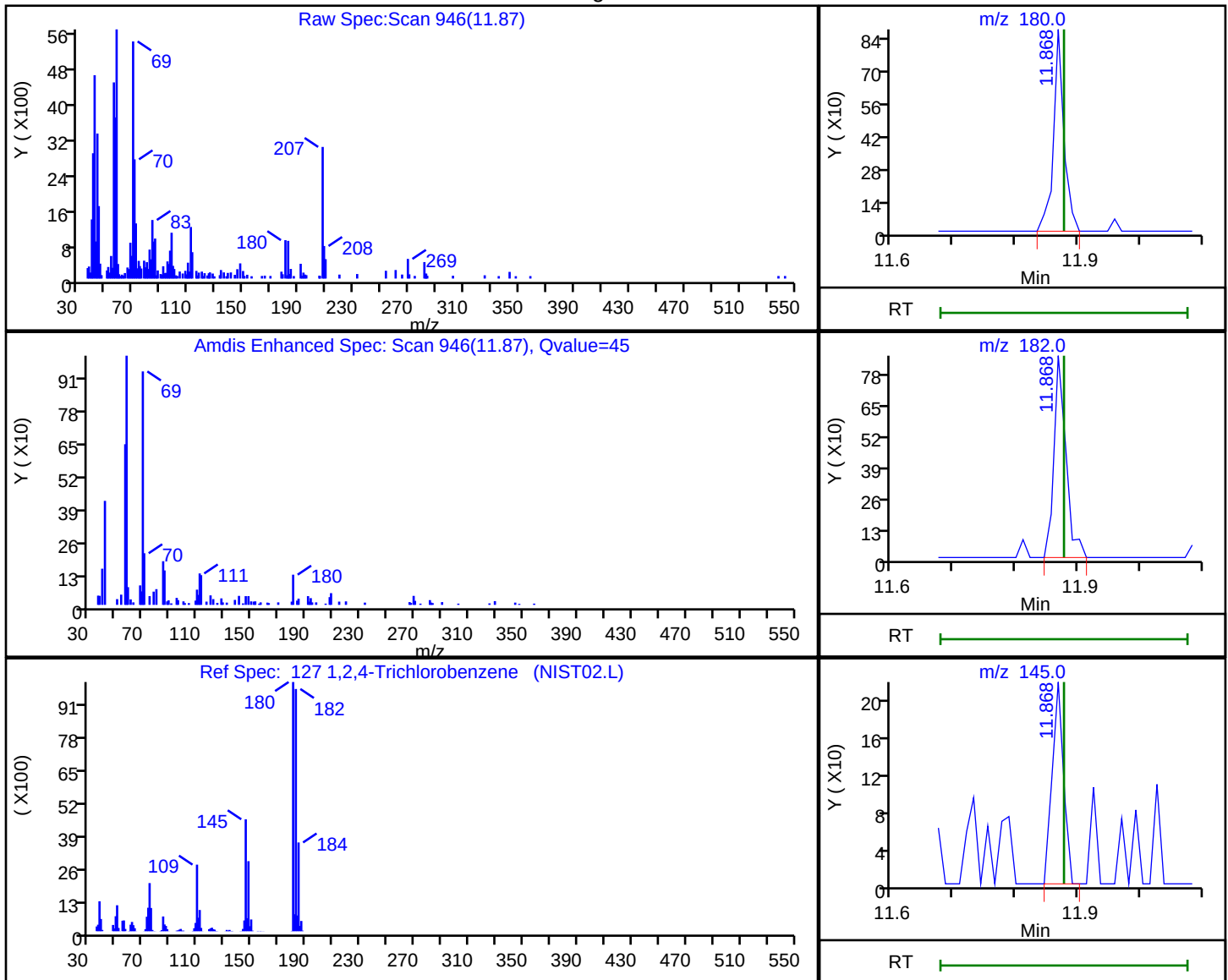
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 127 1,2,4-Trichlorobenzene, CAS: 120-82-1

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.87 | 180.00 | 1031     | 0.262619 |
| 11.87 | 182.00 | 1154     |          |
| 11.87 | 145.00 | 273      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

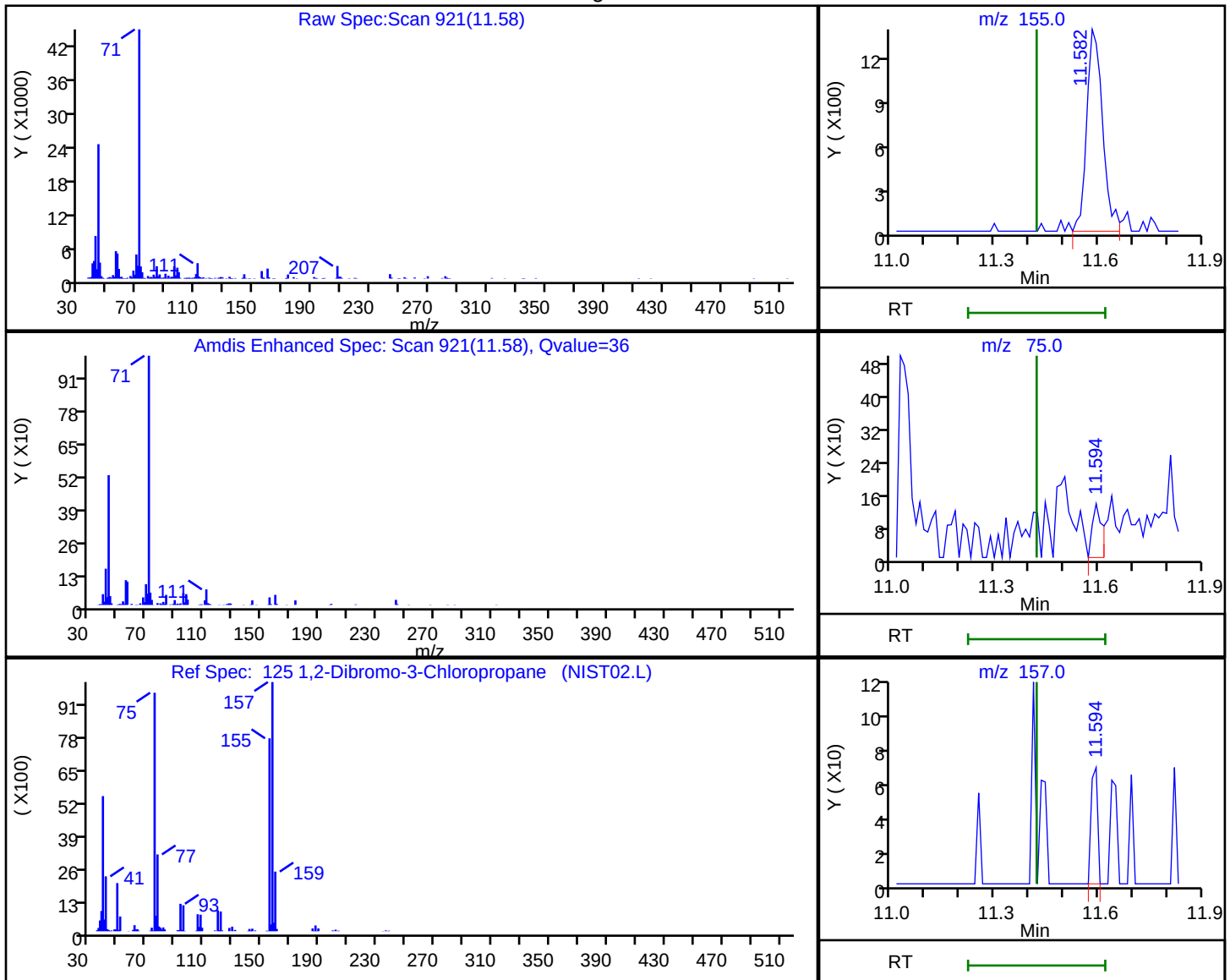
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 125 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.58 | 155.00 | 4344     | 6.433881 |
| 11.59 | 75.00  | 259      |          |
| 11.59 | 157.00 | 84       |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

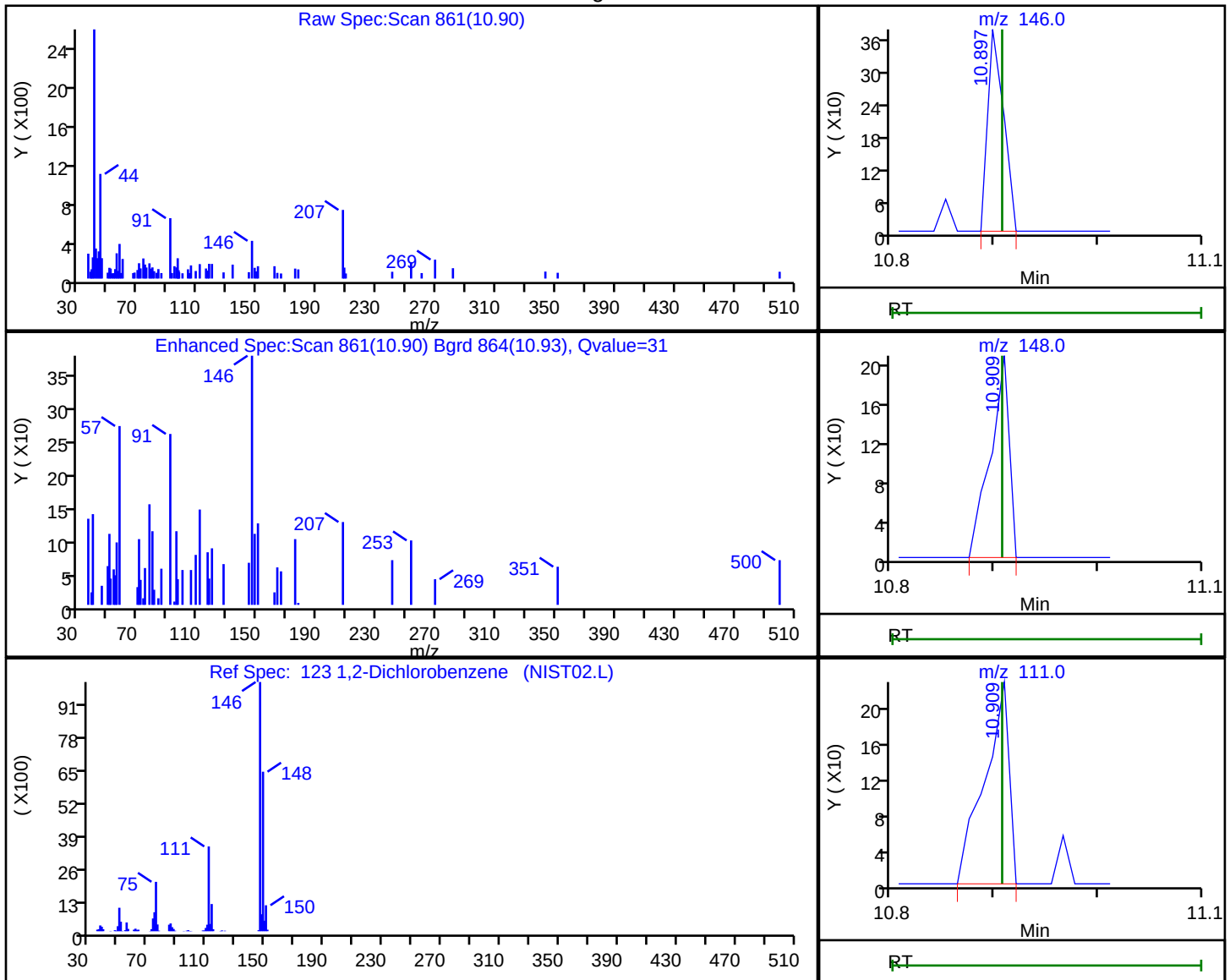
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 123 1,2-Dichlorobenzene, CAS: 95-50-1

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.90 | 146.00 | 406      | 0.062078 |
| 10.91 | 148.00 | 262      |          |
| 10.91 | 111.00 | 377      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

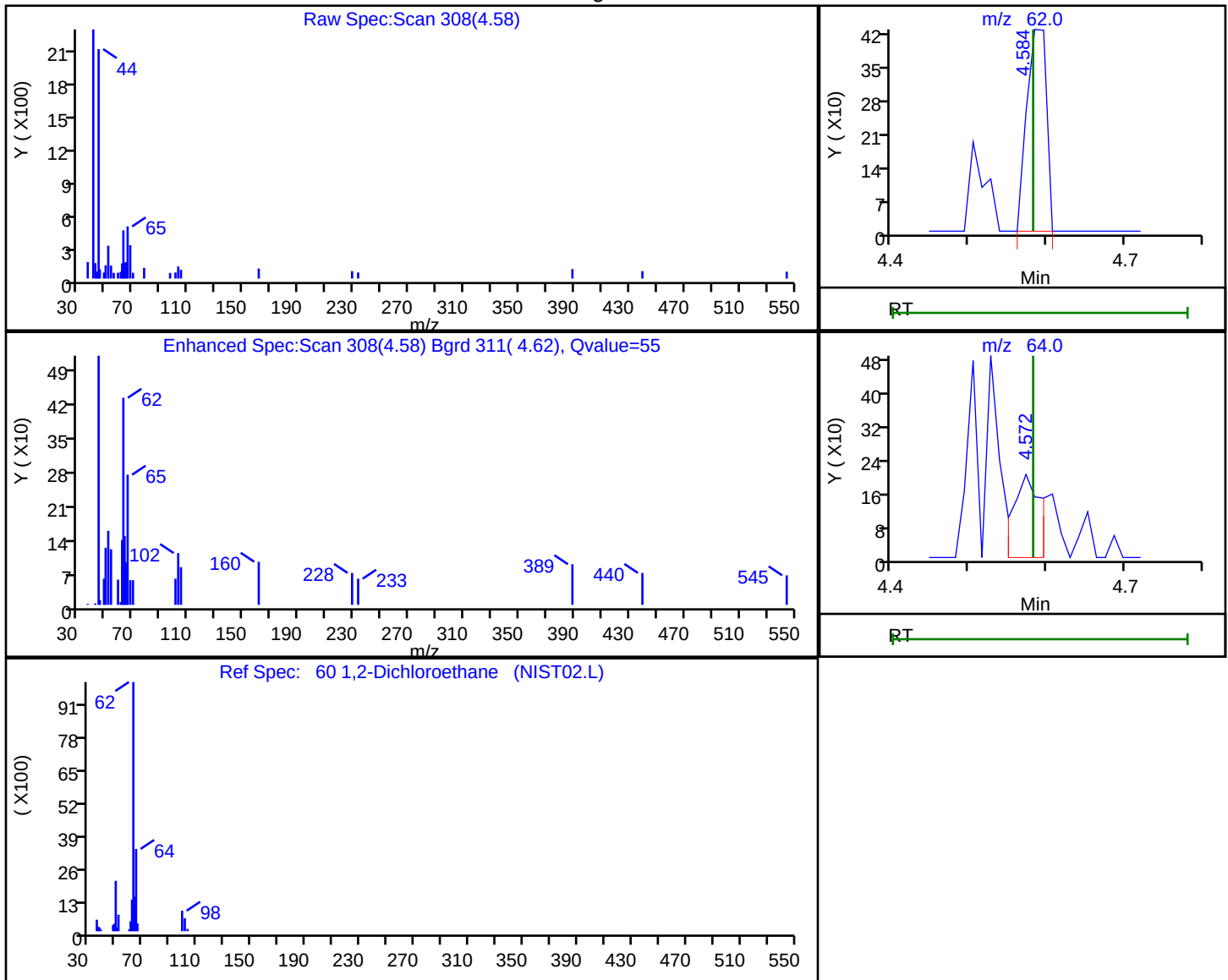
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 60 1,2-Dichloroethane, CAS: 107-06-2

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.58 | 62.00 | 758      | 0.160574 |
| 4.57 | 64.00 | 498      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

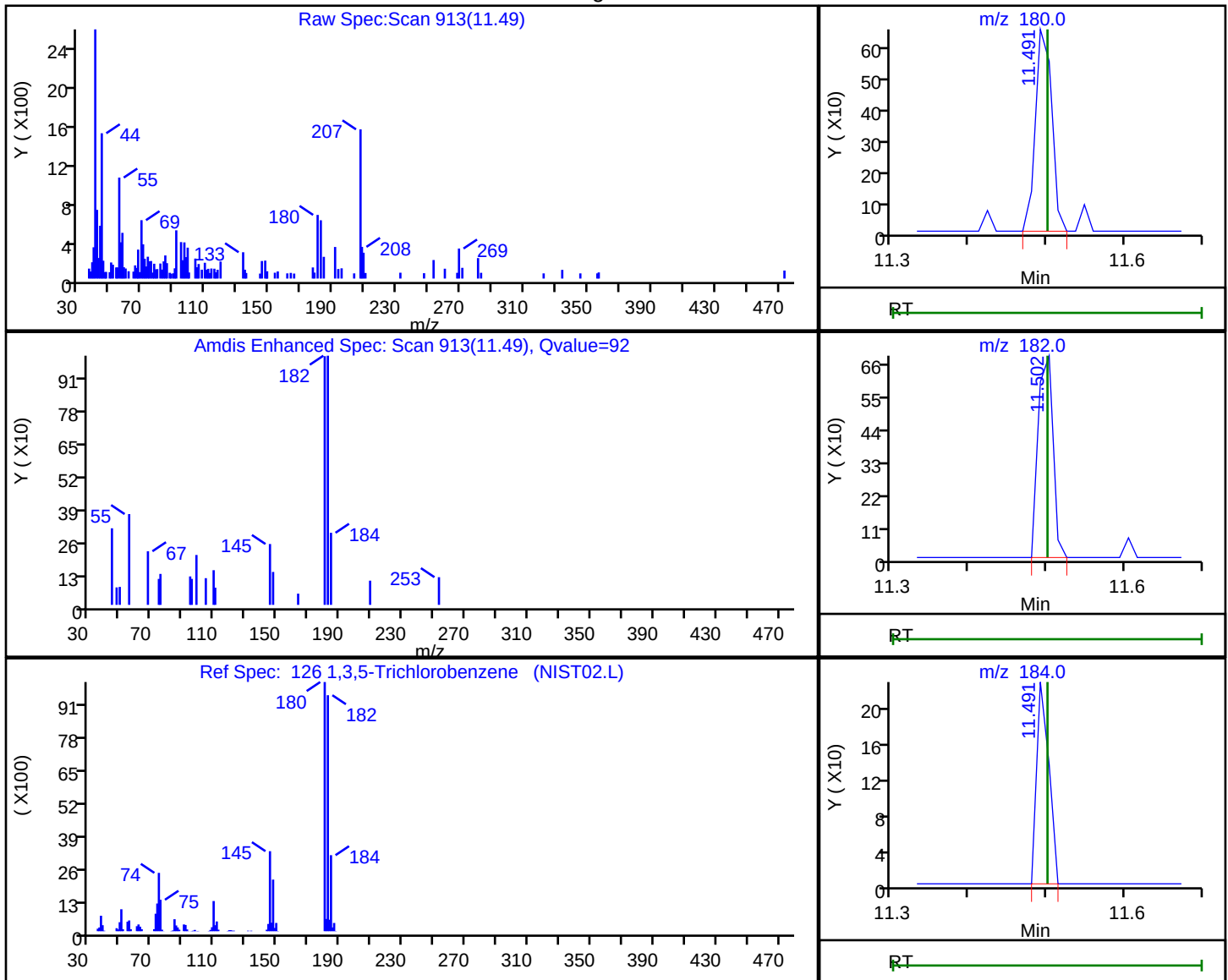
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 126 1,3,5-Trichlorobenzene, CAS: 108-70-3

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.49 | 180.00 | 959      | 0.232792 |
| 11.50 | 182.00 | 921      |          |
| 11.49 | 184.00 | 243      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

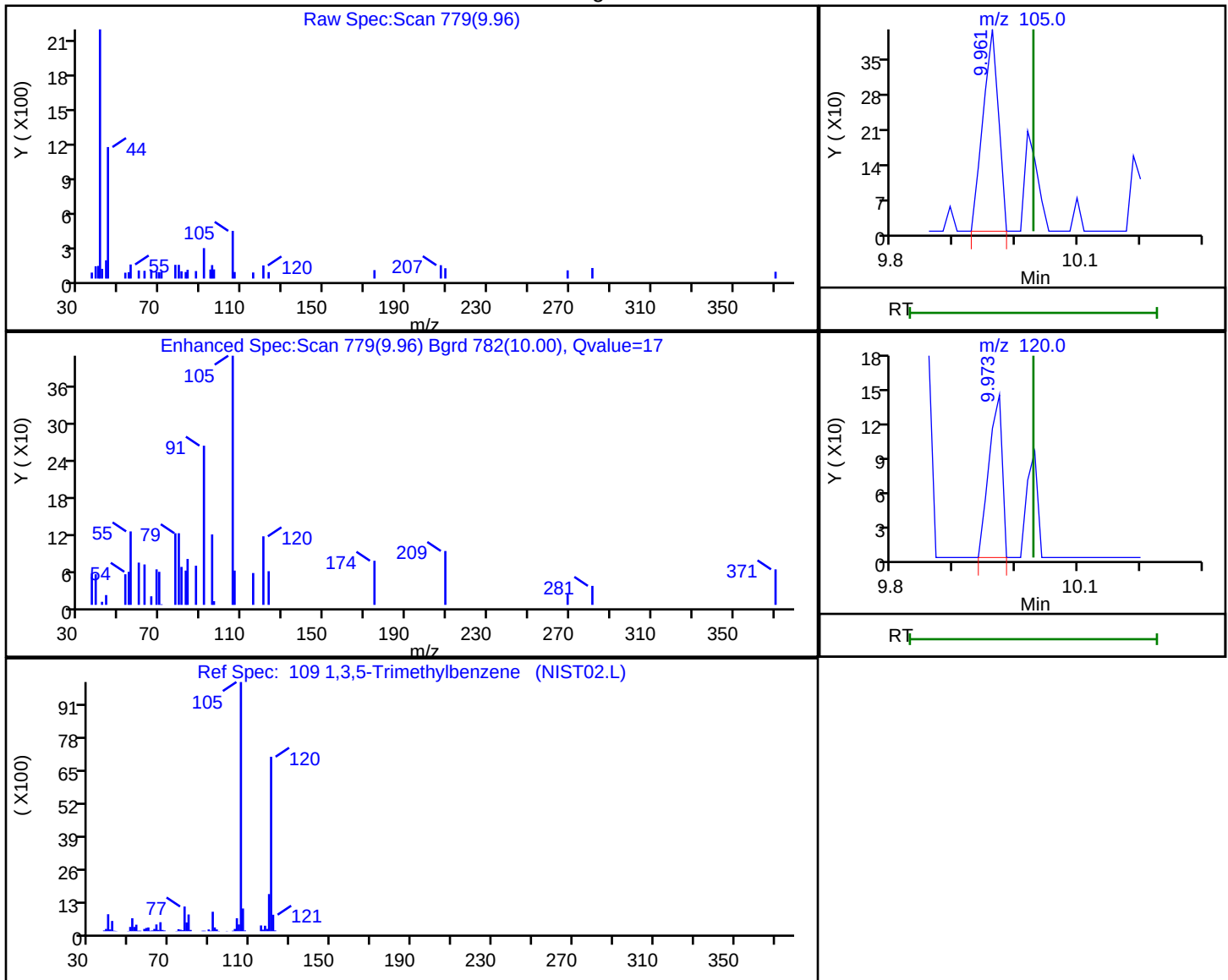
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 109 1,3,5-Trimethylbenzene, CAS: 108-67-8

## Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 9.96 | 105.00 | 705      | 0.076919 |
| 9.97 | 120.00 | 208      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

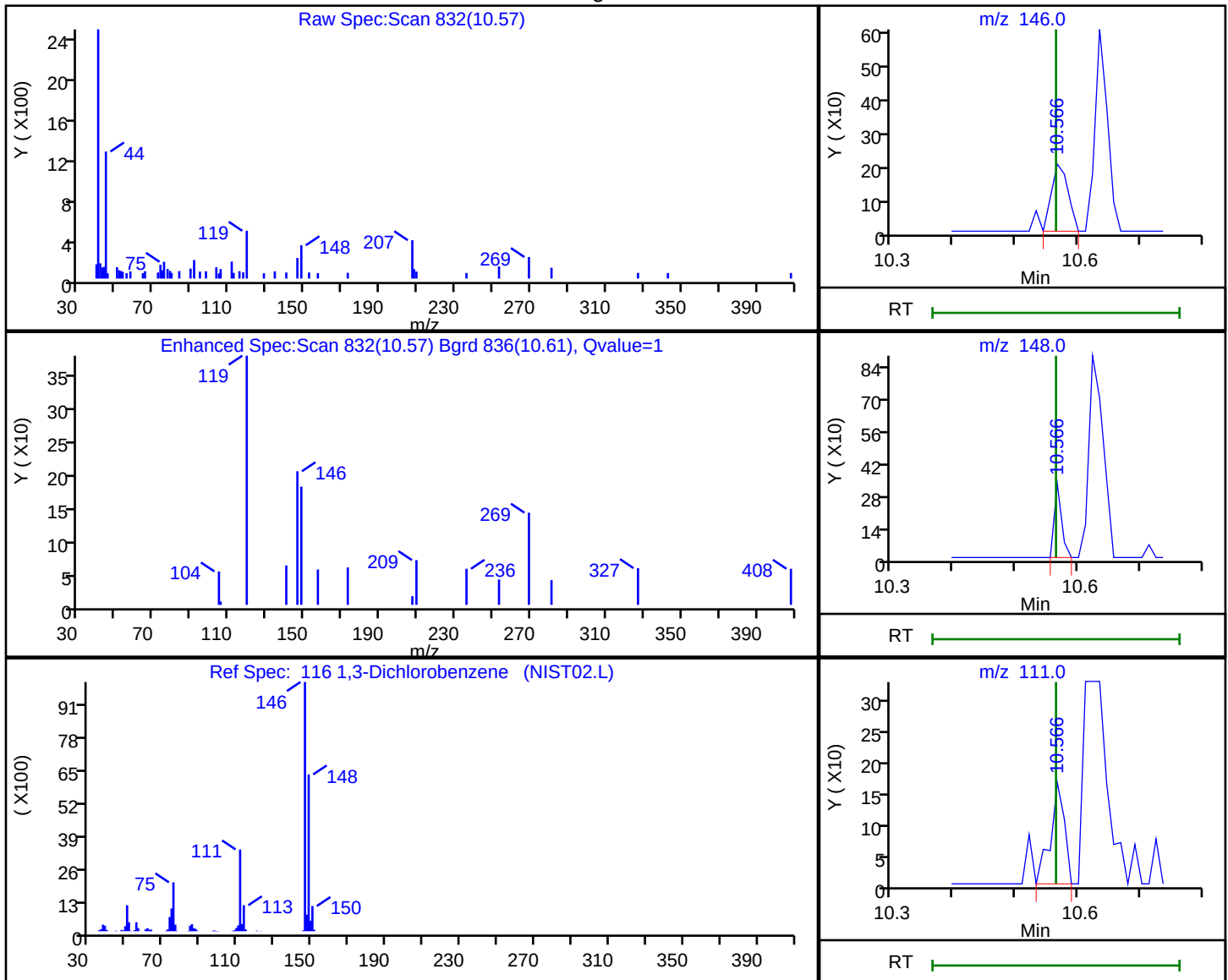
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 116 1,3-Dichlorobenzene, CAS: 541-73-1

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.57 | 146.00 | 373      | 0.056352 |
| 10.57 | 148.00 | 266      |          |
| 10.57 | 111.00 | 260      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:32

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

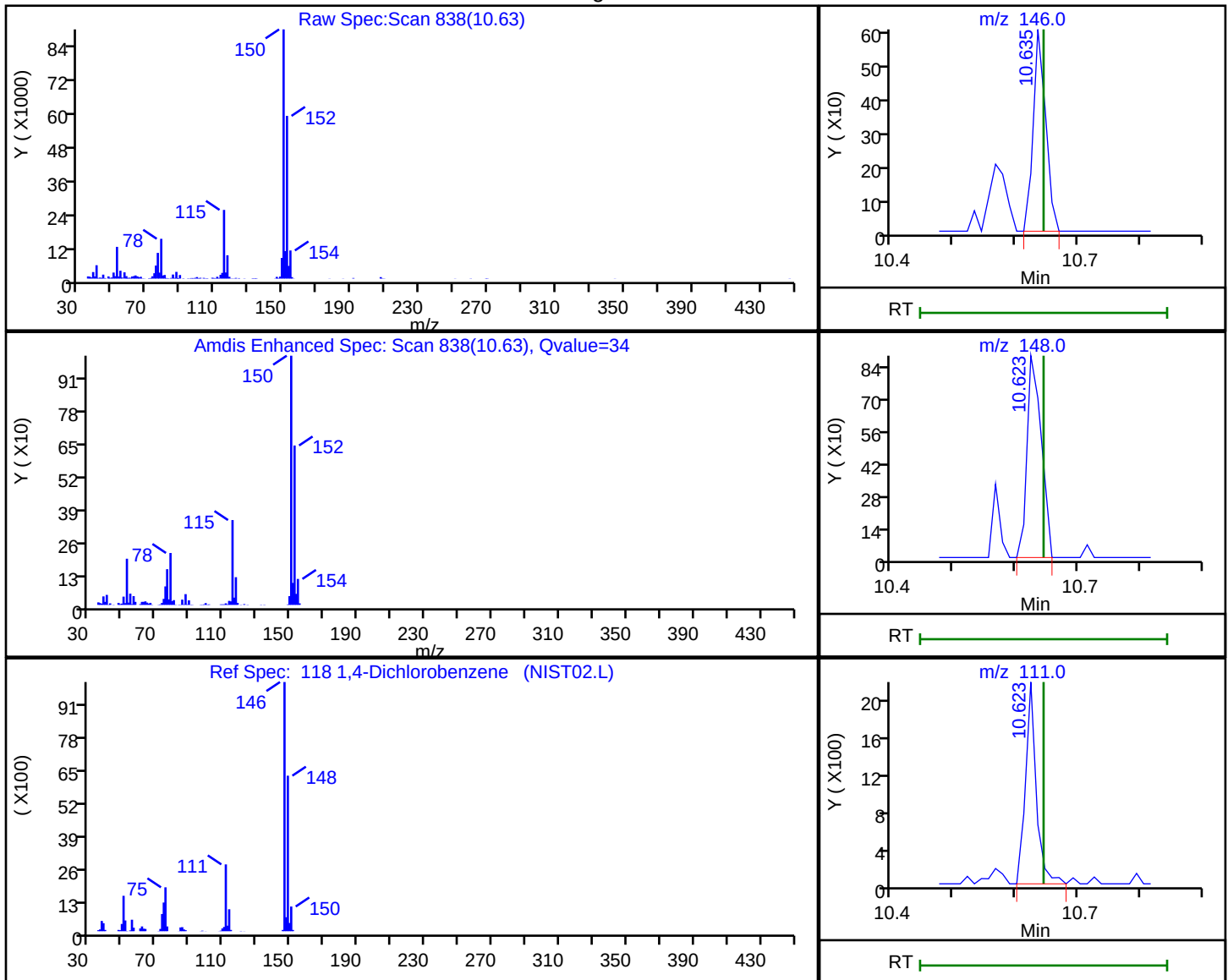
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 118 1,4-Dichlorobenzene, CAS: 106-46-7

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.63 | 146.00 | 844      | 0.120786 |
| 10.62 | 148.00 | 1421     |          |
| 10.62 | 111.00 | 2625     |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:32

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

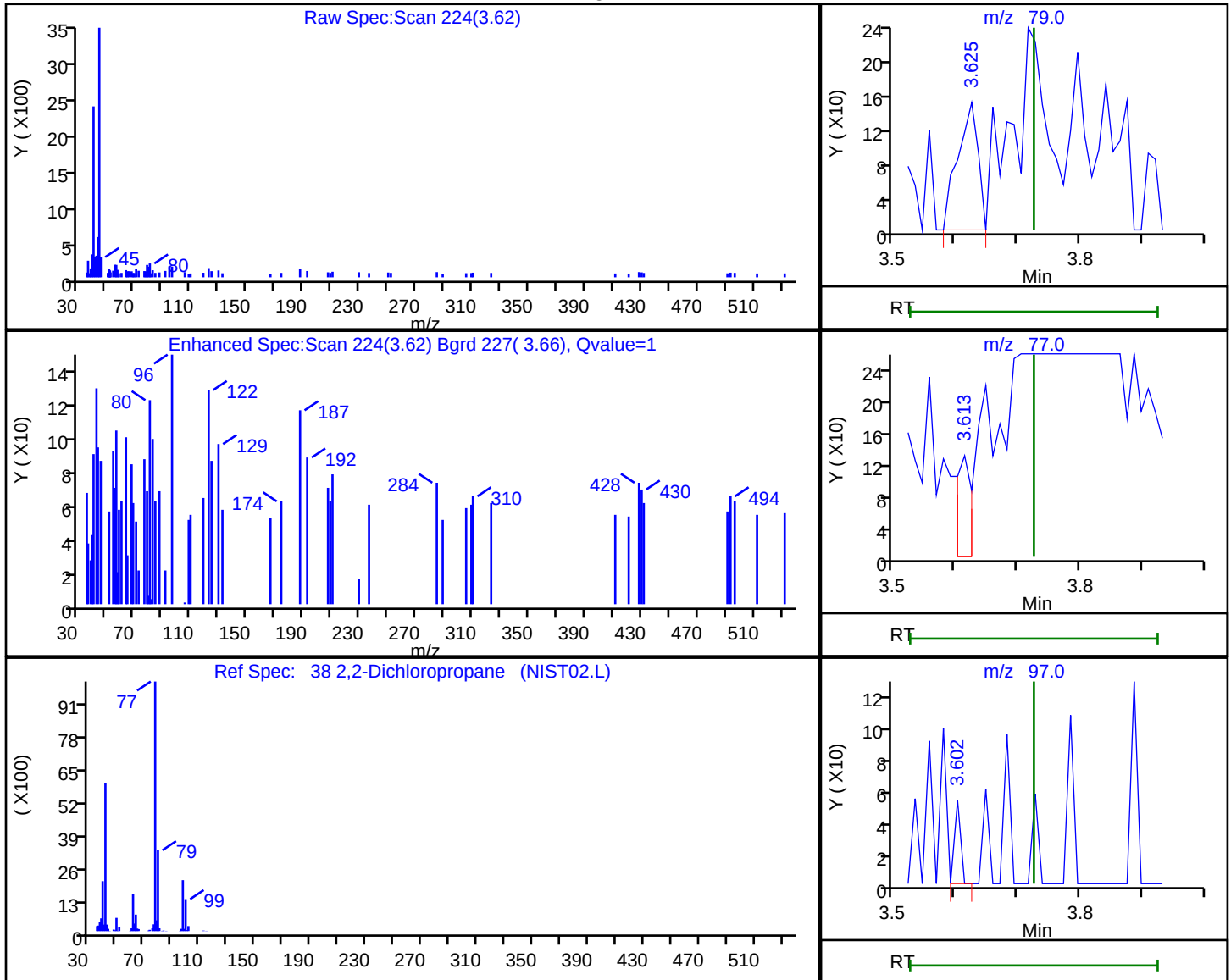
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 38 2,2-Dichloropropane, CAS: 594-20-7

## Processing Results



| RT   | Mass  | Response | Amount    |
|------|-------|----------|-----------|
| 3.62 | 79.00 | 334      | -0.041207 |
| 3.61 | 77.00 | 213      |           |
| 3.60 | 97.00 | 36       |           |

Reviewer: pakanatir, 20-Sep-2018 17:53:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

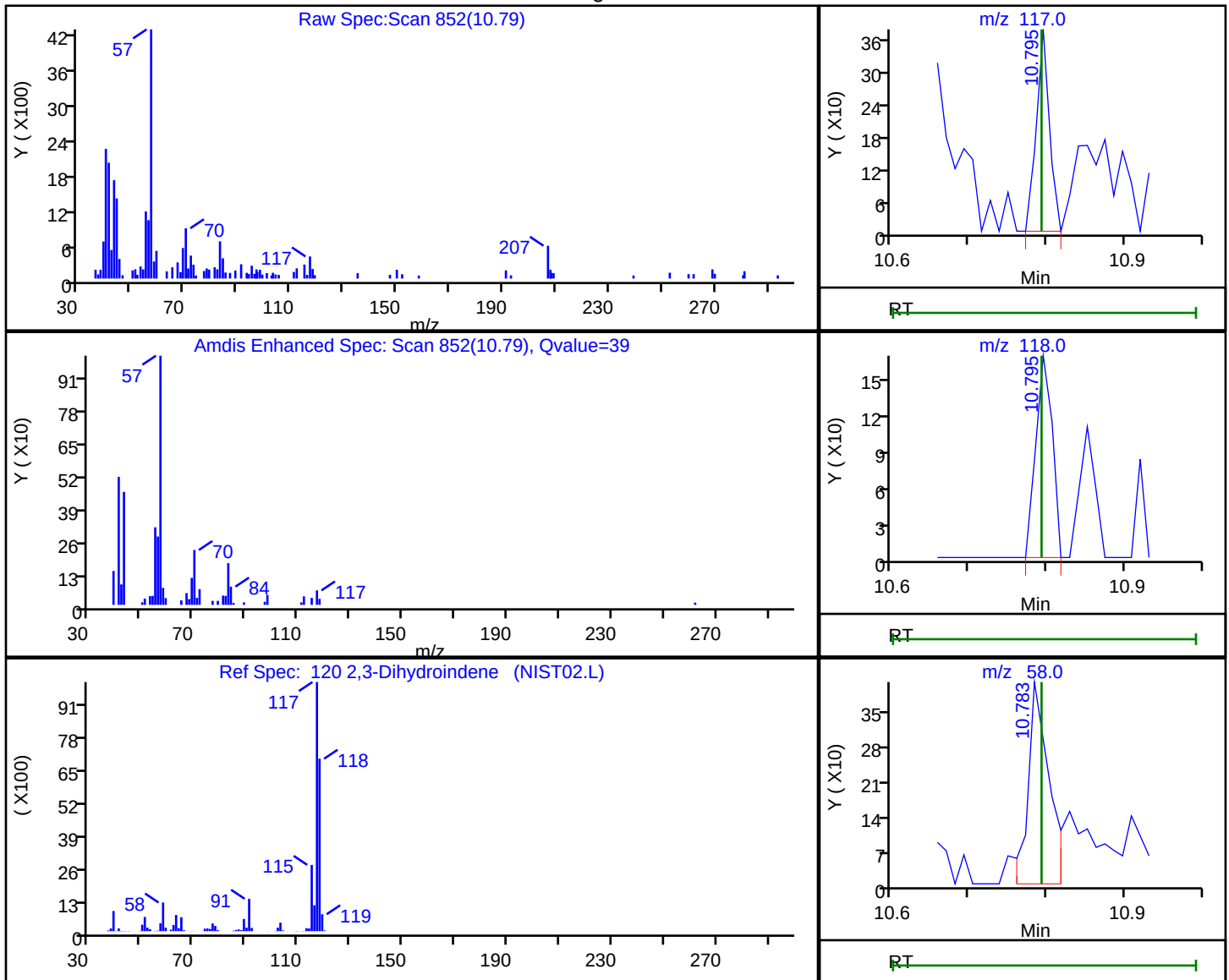
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 120 2,3-Dihydroindene, CAS: 496-11-7

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.79 | 117.00 | 441      | 0.039309 |
| 10.79 | 118.00 | 239      |          |
| 10.78 | 58.00  | 769      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#:

3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

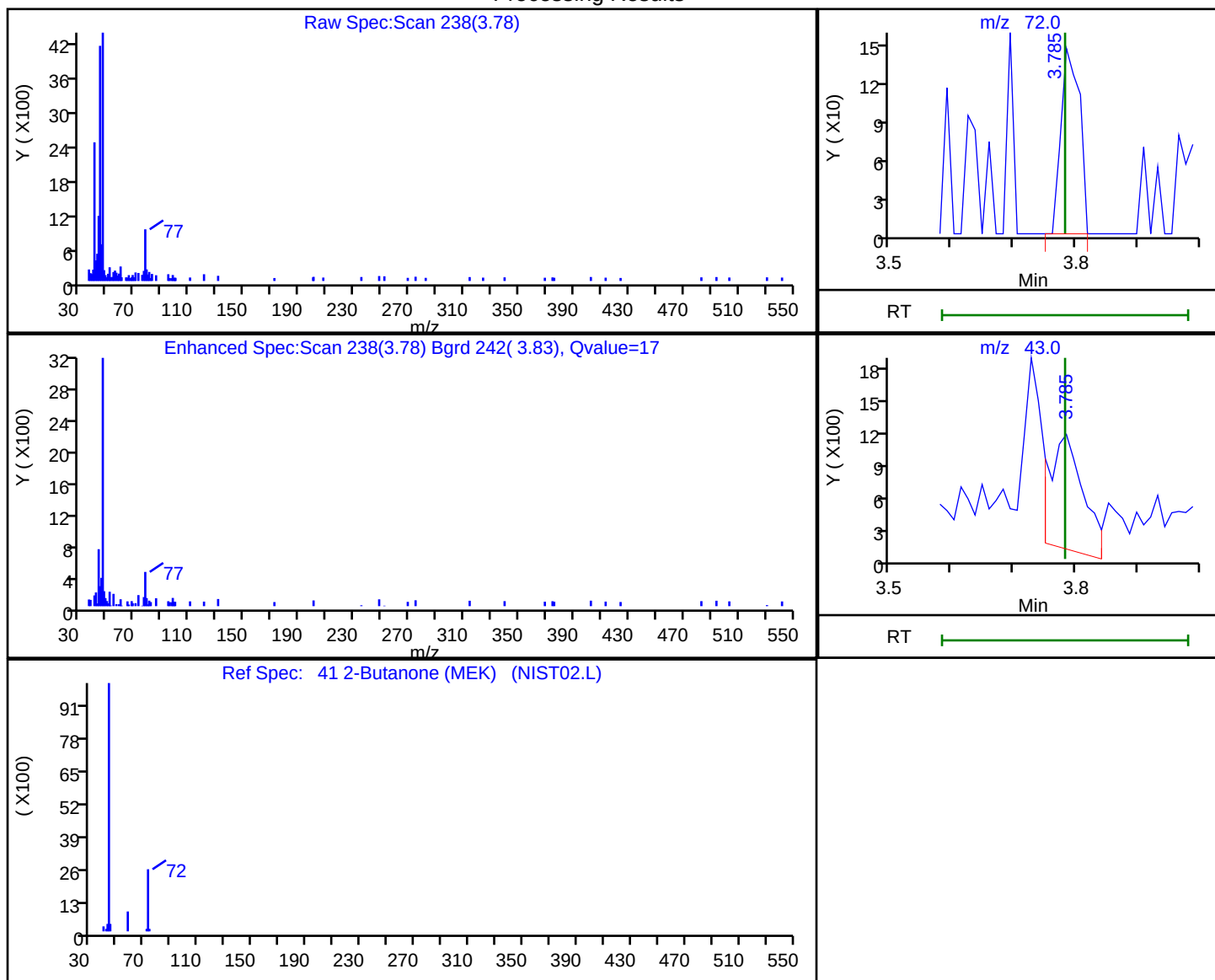
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 41 2-Butanone (MEK), CAS: 78-93-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.78 | 72.00 | 296      | 0.660318 |
| 3.78 | 43.00 | 4106     |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:28

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

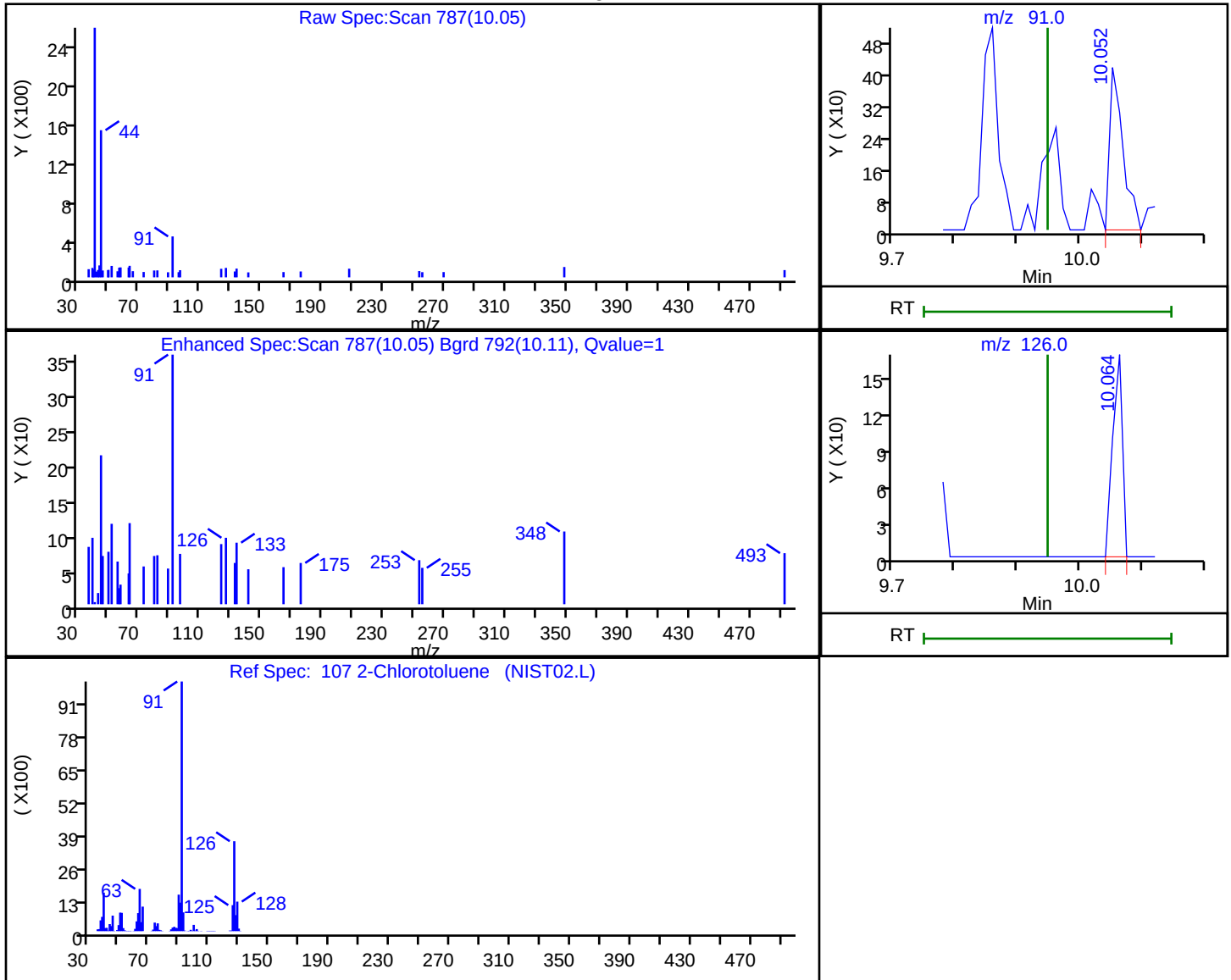
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 107 2-Chlorotoluene, CAS: 95-49-8

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.05 | 91.00  | 618      | 0.061996 |
| 10.06 | 126.00 | 176      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

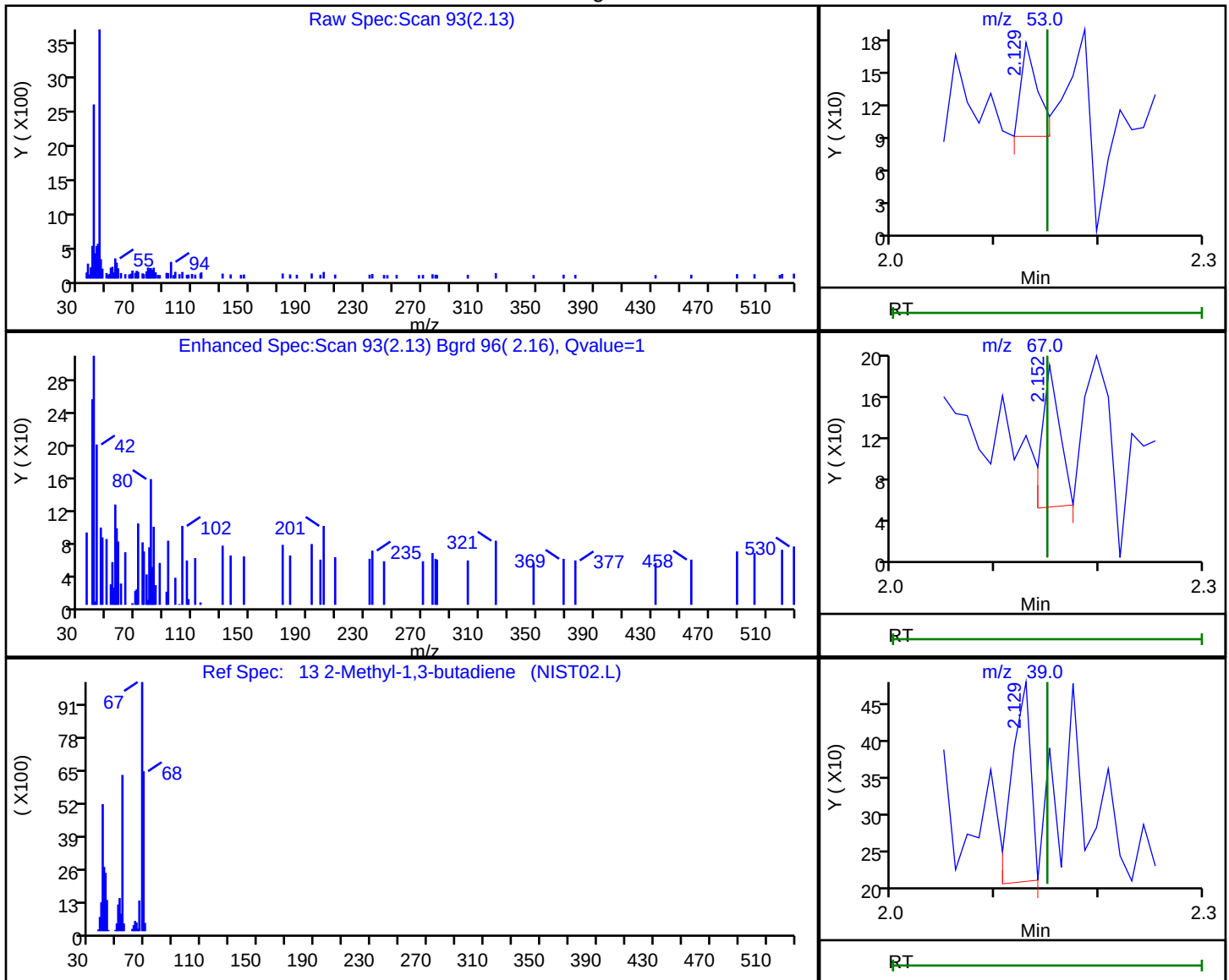
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 13 2-Methyl-1,3-butadiene, CAS: 78-79-5

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.13 | 53.00 | 99       | 0.031877 |
| 2.15 | 67.00 | 164      |          |
| 2.13 | 39.00 | 339      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#:

3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

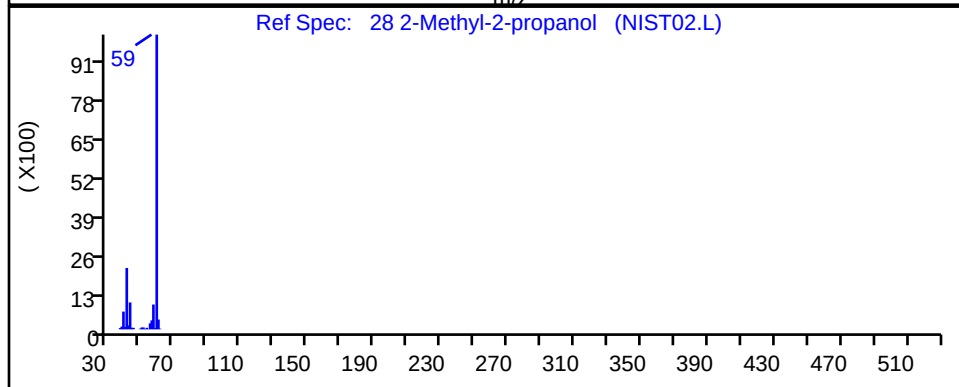
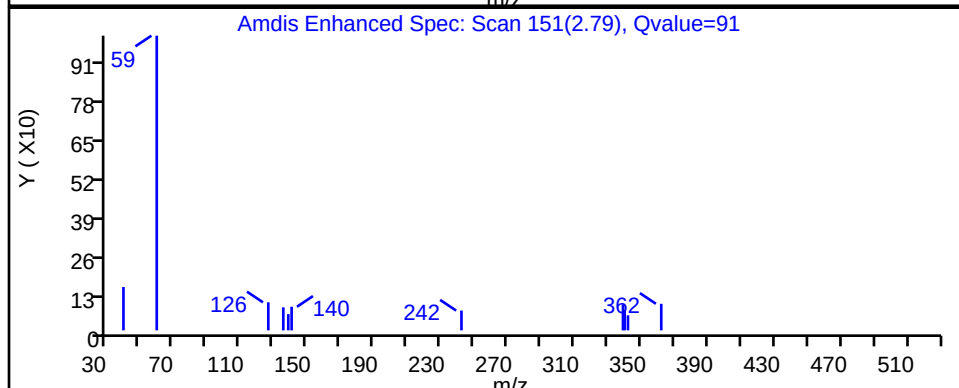
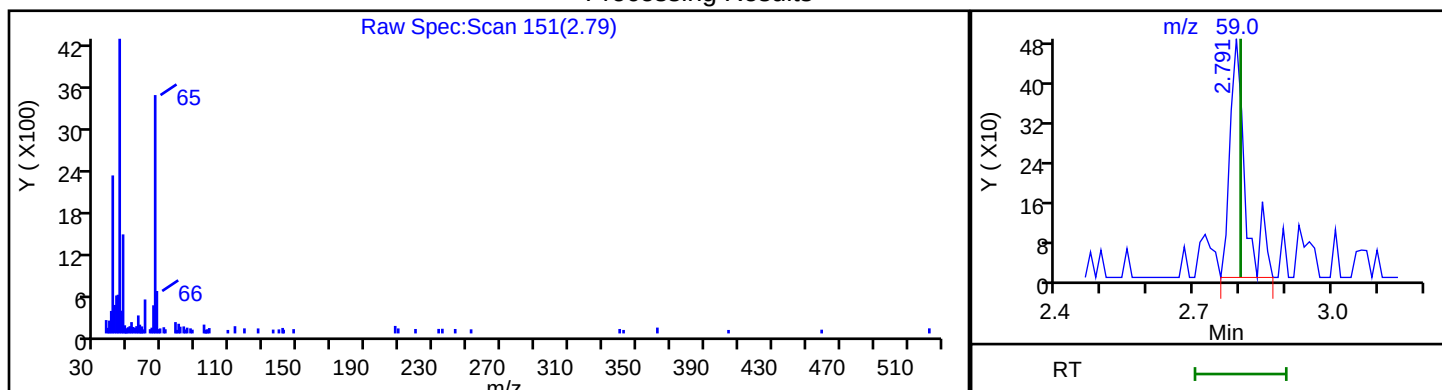
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 28 2-Methyl-2-propanol, CAS: 75-65-0

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.79 | 59.00 | 1114     | 2.993169 |

Reviewer: pakanatir, 20-Sep-2018 17:52:44

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

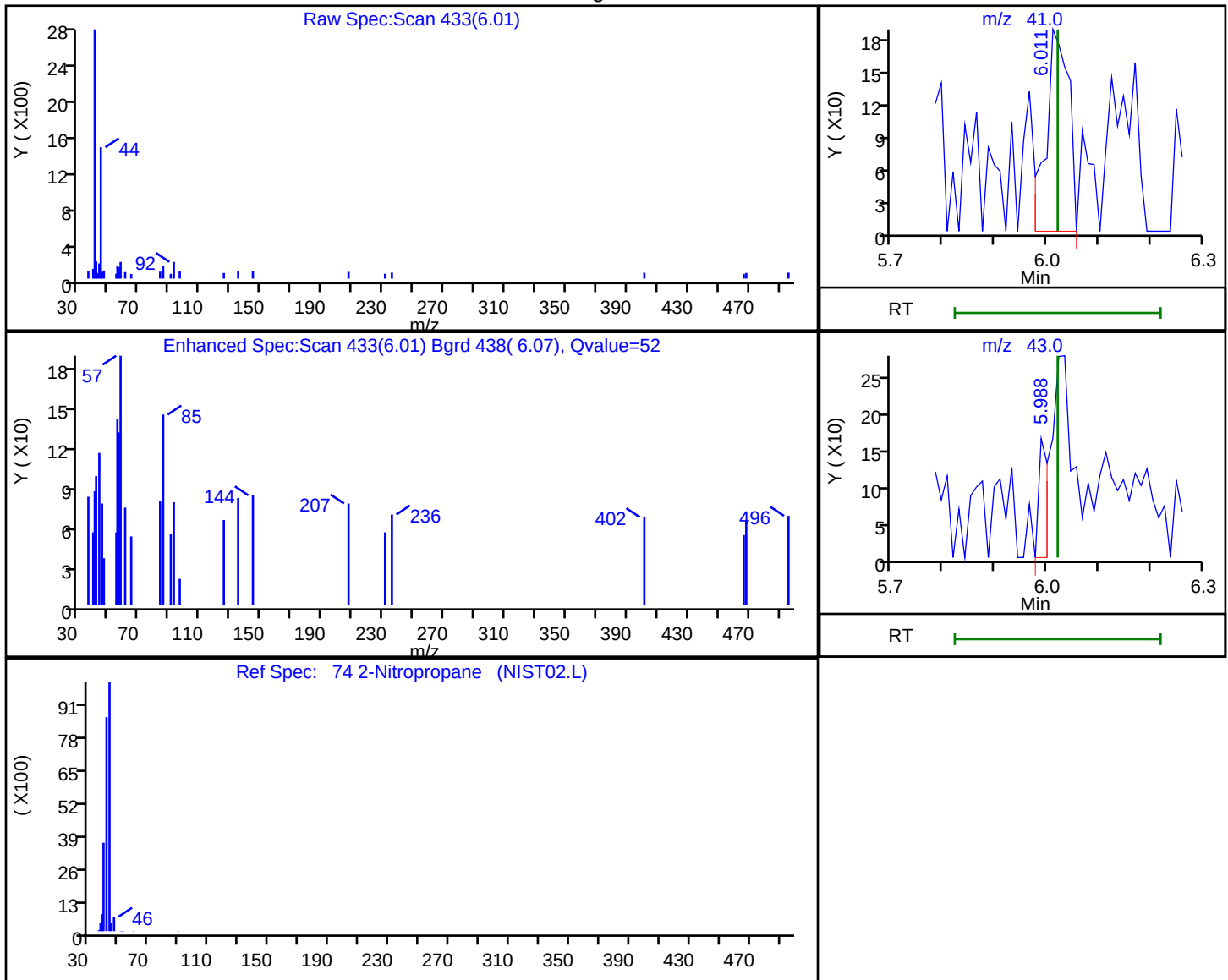
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 74 2-Nitropropane, CAS: 79-46-9

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.01 | 41.00 | 574      | 0.293828 |
| 5.99 | 43.00 | 203      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

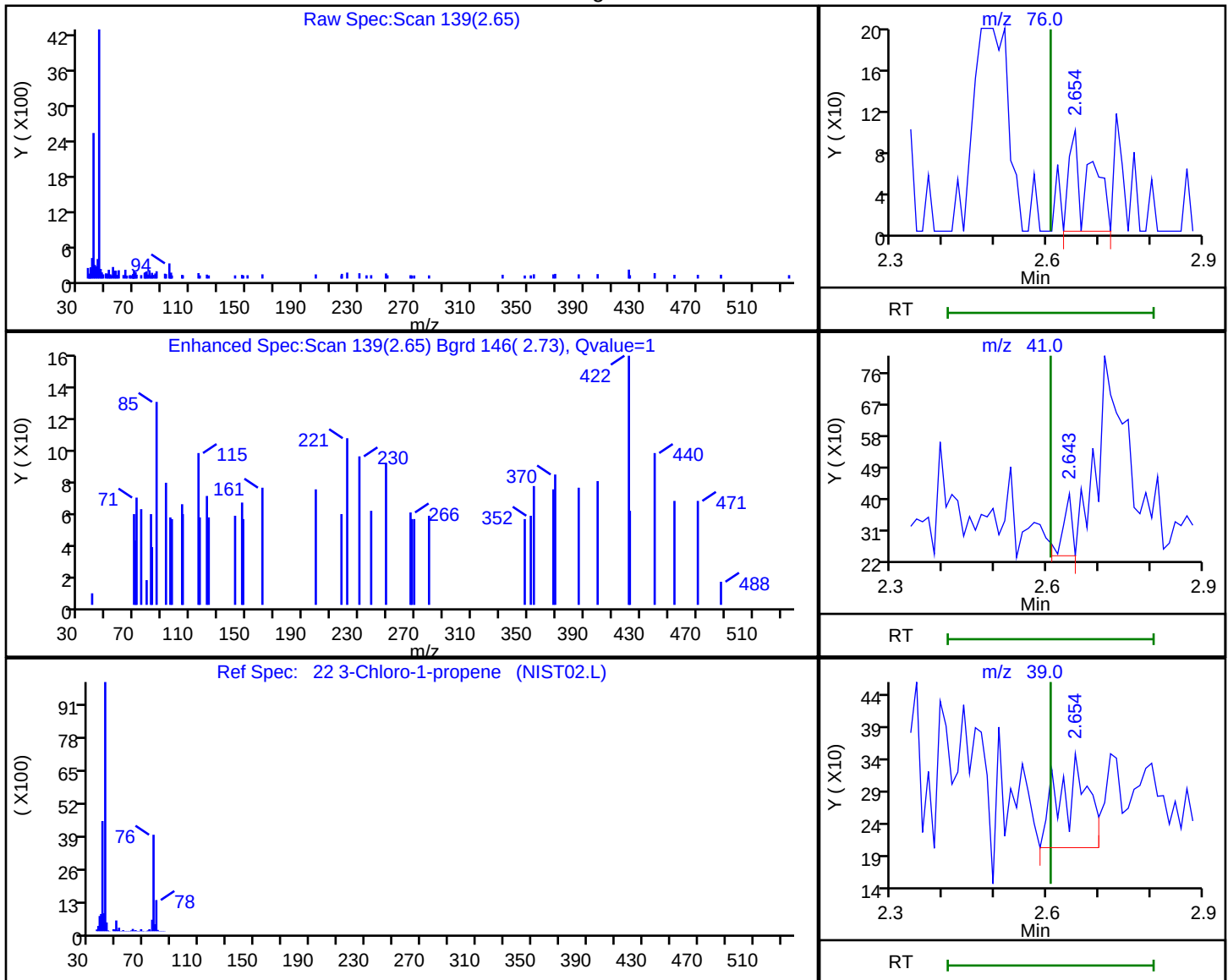
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 22 3-Chloro-1-propene, CAS: 107-05-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.65 | 76.00 | 276      | 0.140234 |
| 2.64 | 41.00 | 207      |          |
| 2.65 | 39.00 | 555      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:49

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

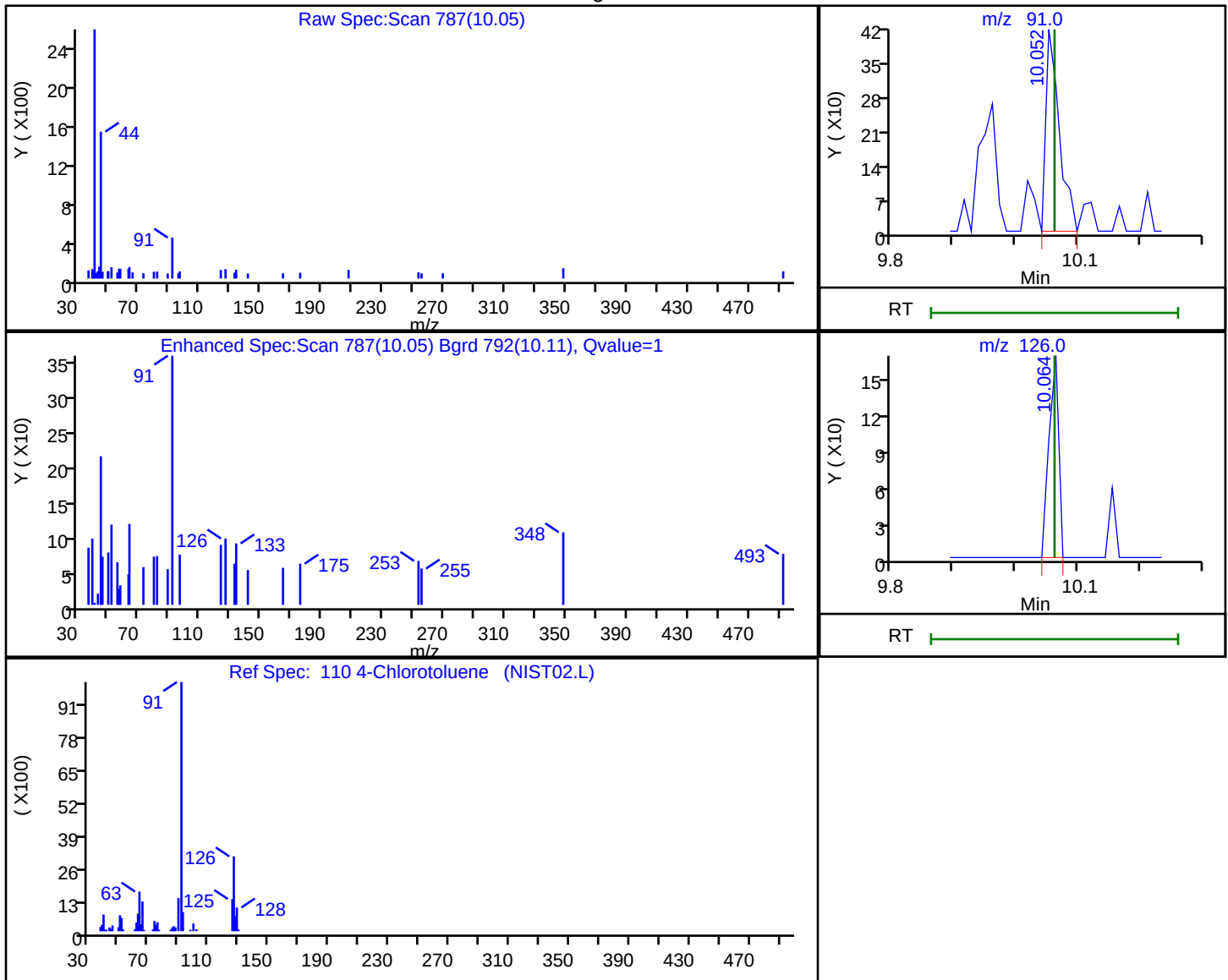
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 110 4-Chlorotoluene, CAS: 106-43-4

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.05 | 91.00  | 618      | 0.065566 |
| 10.06 | 126.00 | 176      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

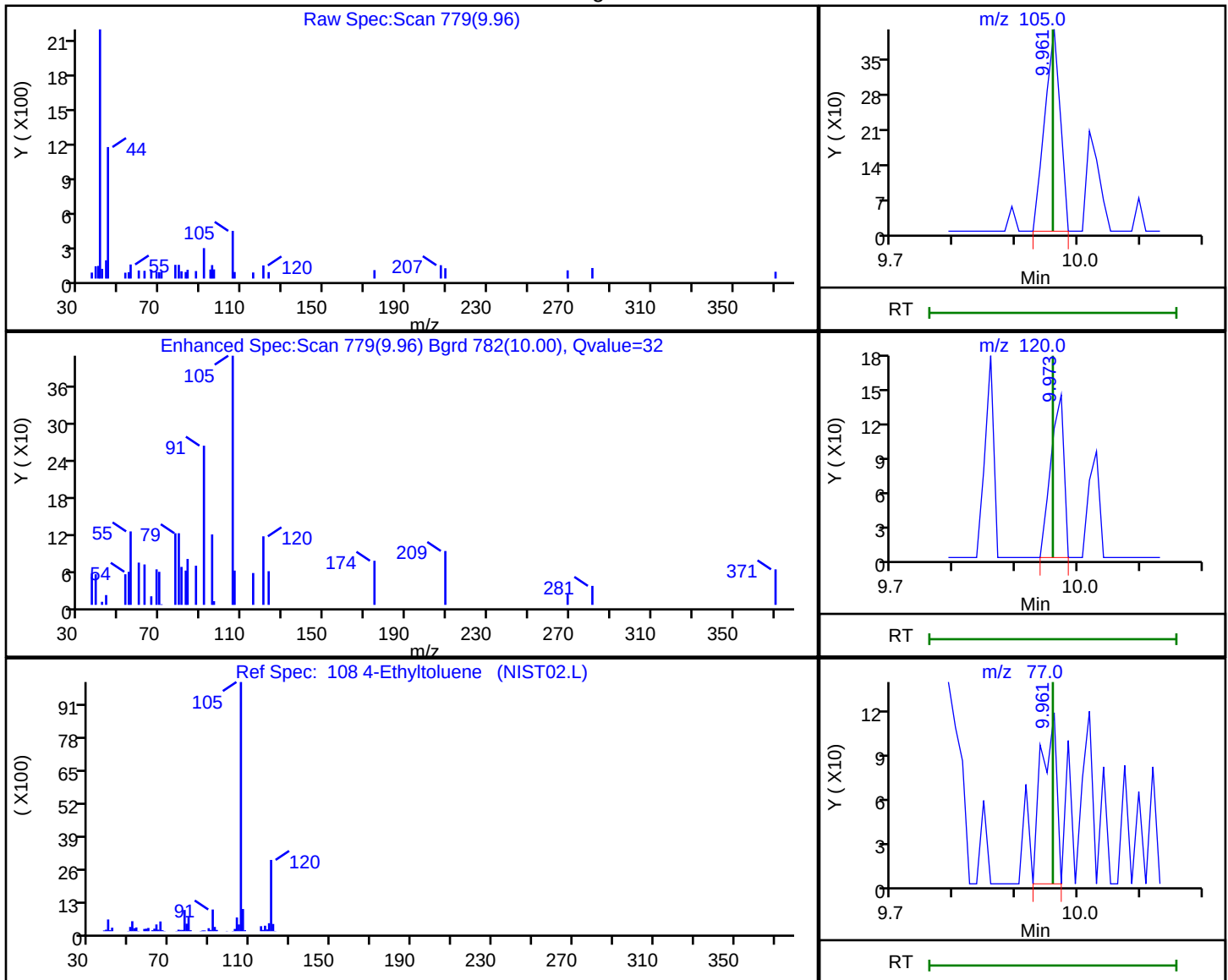
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 108 4-Ethyltoluene, CAS: 622-96-8

## Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 9.96 | 105.00 | 705      | 0.062899 |
| 9.97 | 120.00 | 208      |          |
| 9.96 | 77.00  | 197      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

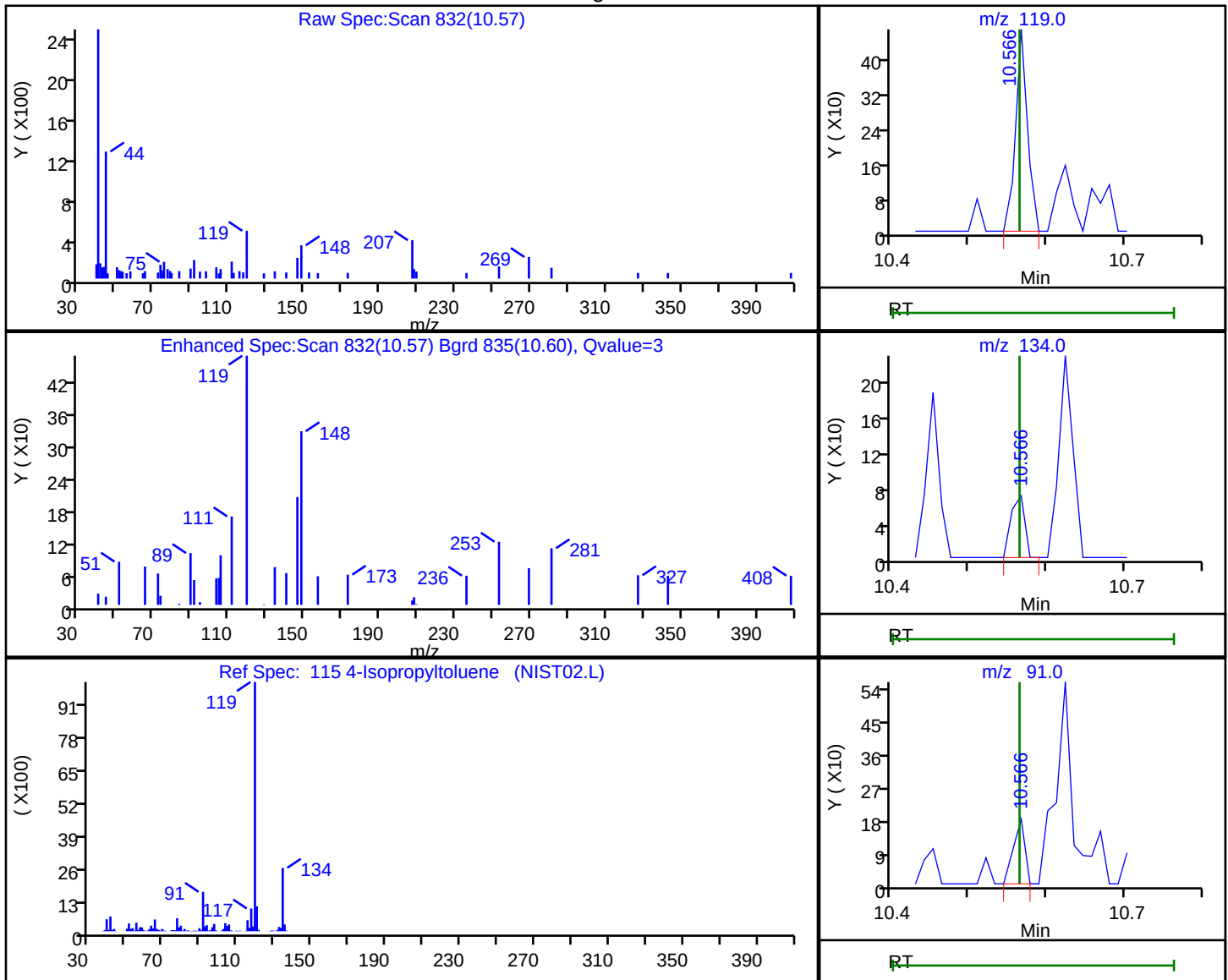
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 115 4-Isopropyltoluene, CAS: 99-87-6

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.57 | 119.00 | 496      | 0.044978 |
| 10.57 | 134.00 | 86       |          |
| 10.57 | 91.00  | 184      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:32

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

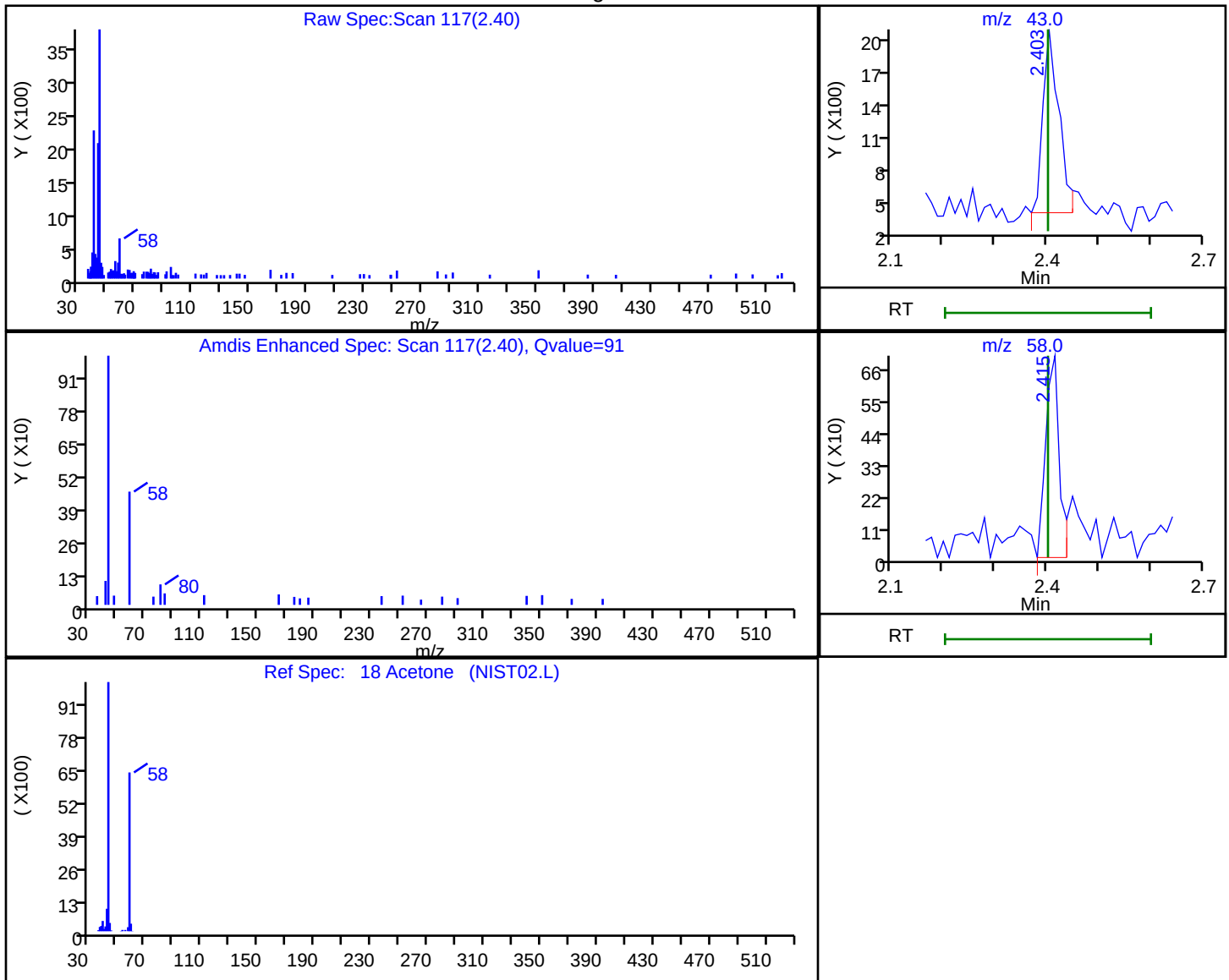
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 18 Acetone, CAS: 67-64-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.40 | 43.00 | 3434     | 1.146197 |
| 2.41 | 58.00 | 1310     |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

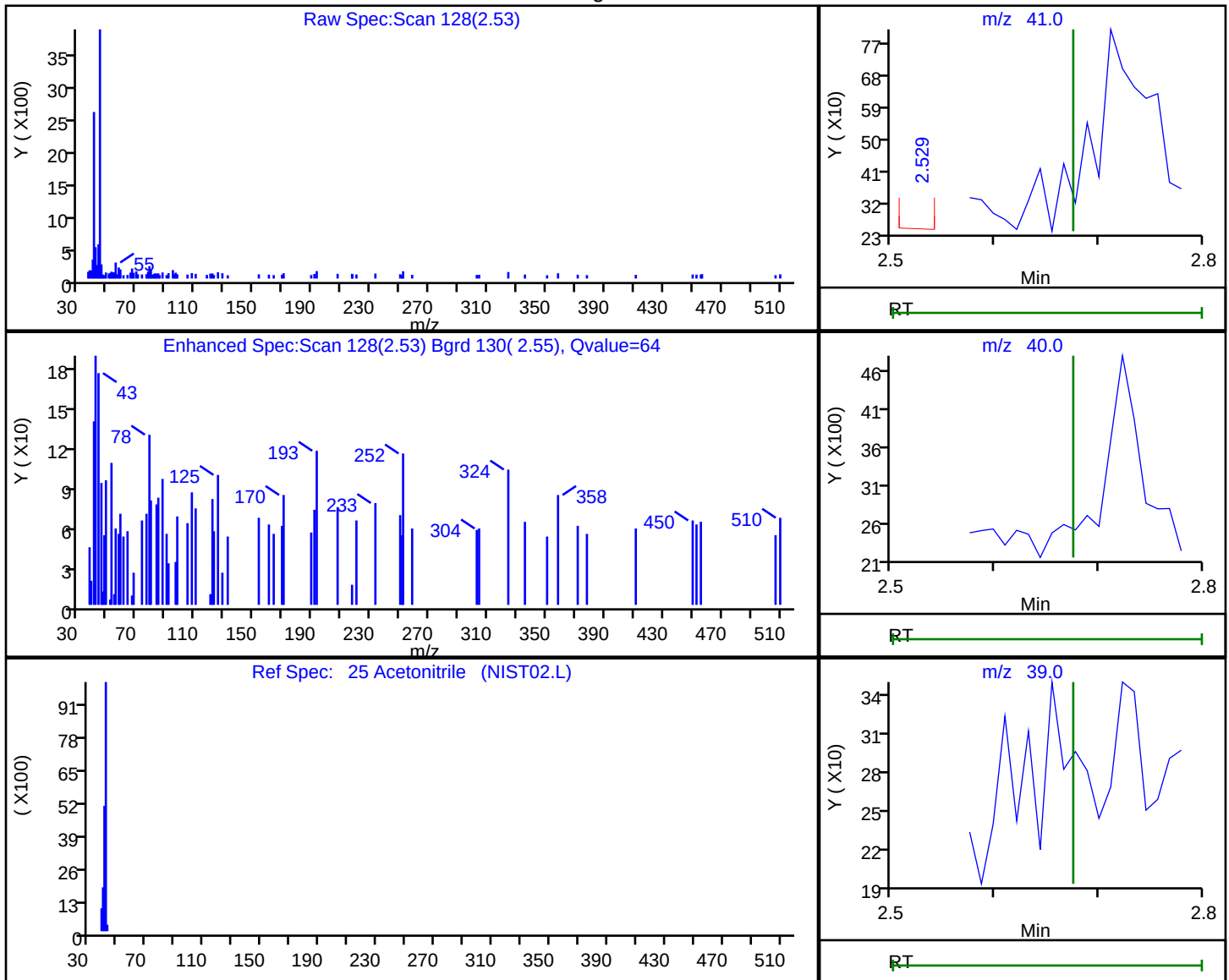
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 25 Acetonitrile, CAS: 75-05-8

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.53 | 41.00 | 299      | 0.538728 |
| 2.51 | 40.00 | 958      |          |
| 2.51 | 39.00 | 221      |          |
| 2.54 | 38.00 | 115      |          |

Reviewer: pakanatir, 20-Sep-2018 17:52:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

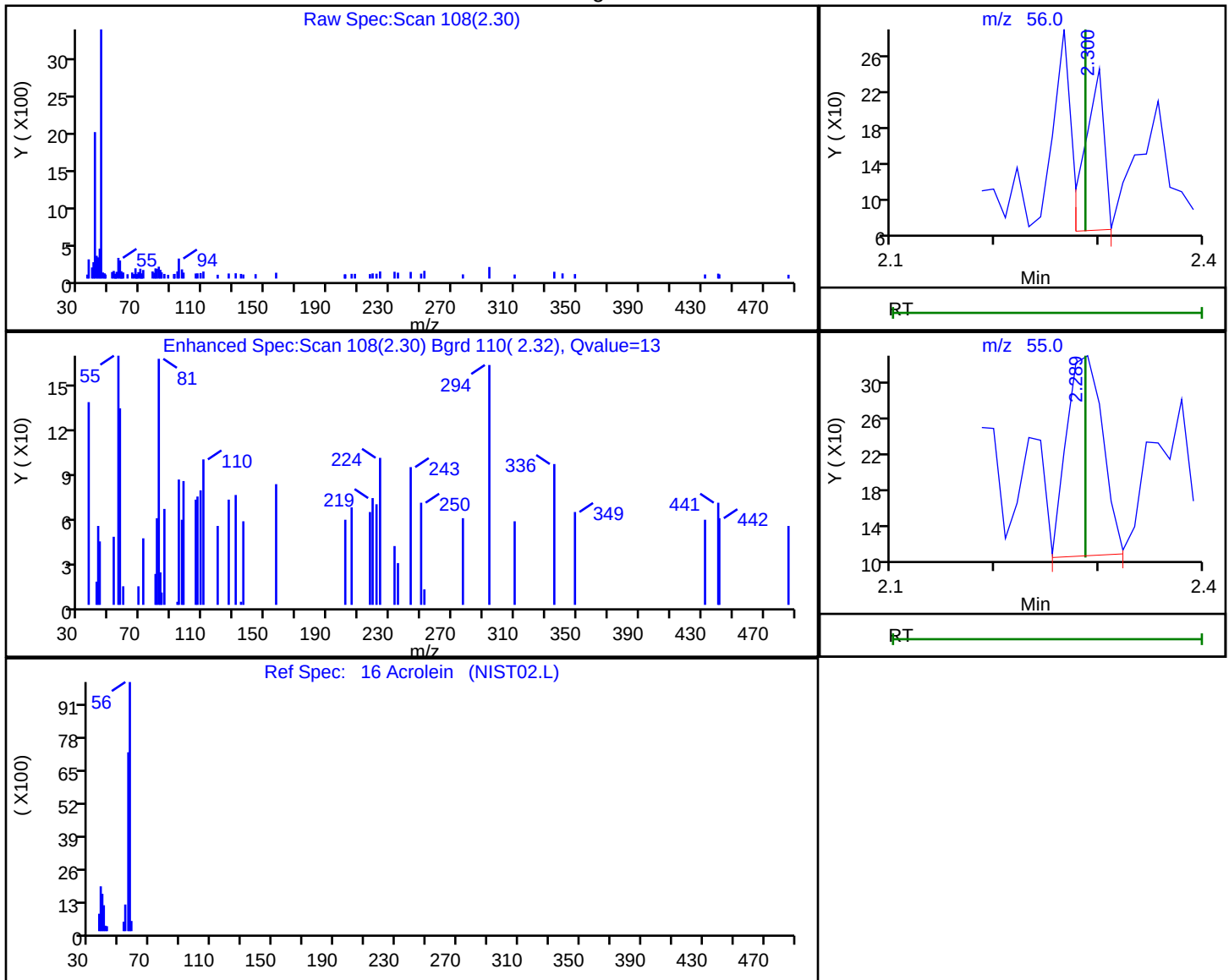
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 16 Acrolein, CAS: 107-02-8

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.30 | 56.00 | 231      | 0.345430 |
| 2.29 | 55.00 | 536      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

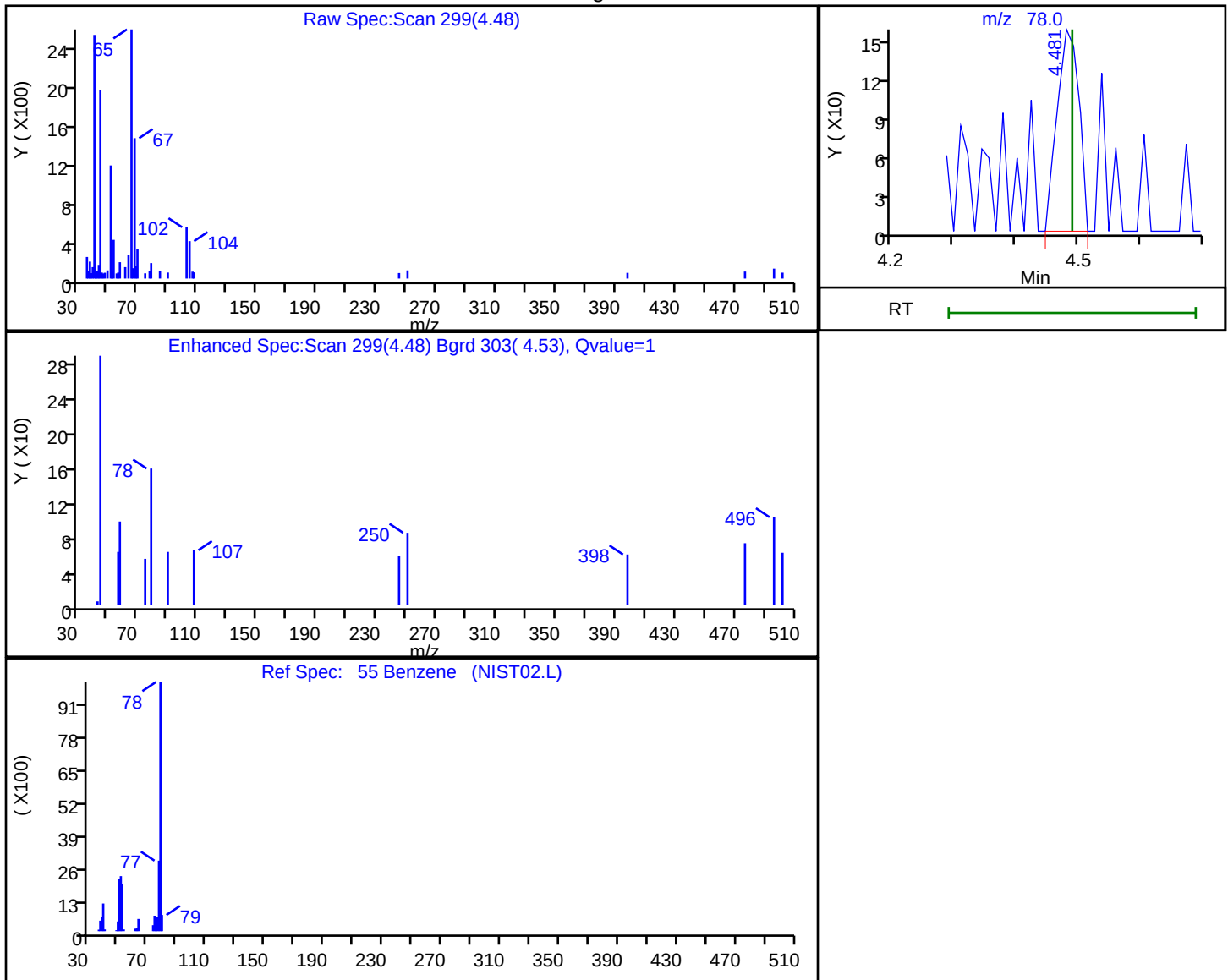
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 55 Benzene, CAS: 71-43-2

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.48 | 78.00 | 384      | 0.029600 |

Reviewer: pakanatir, 20-Sep-2018 17:53:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

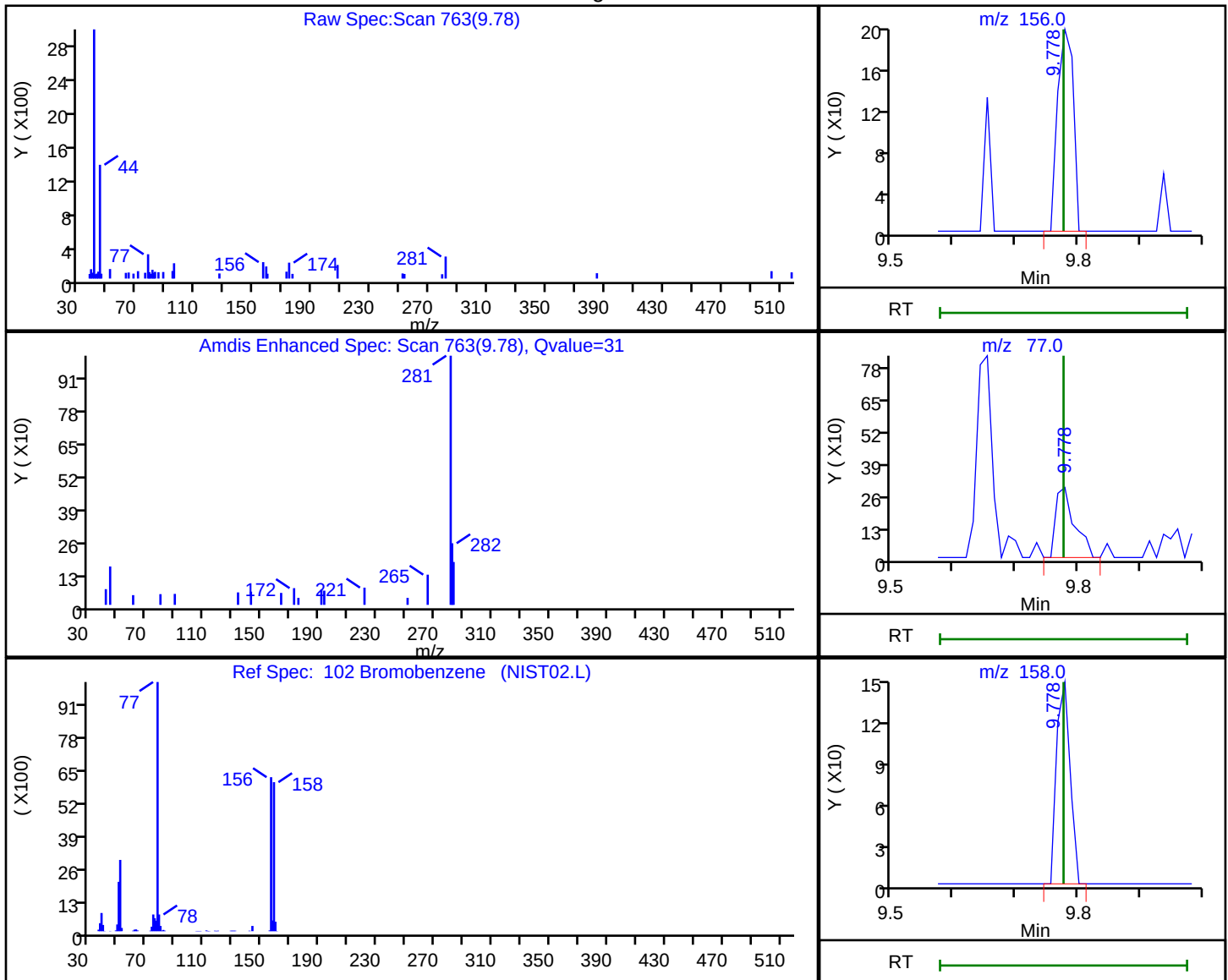
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 102 Bromobenzene, CAS: 108-86-1

## Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 9.78 | 156.00 | 338      | 0.091645 |
| 9.78 | 77.00  | 601      |          |
| 9.78 | 158.00 | 216      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

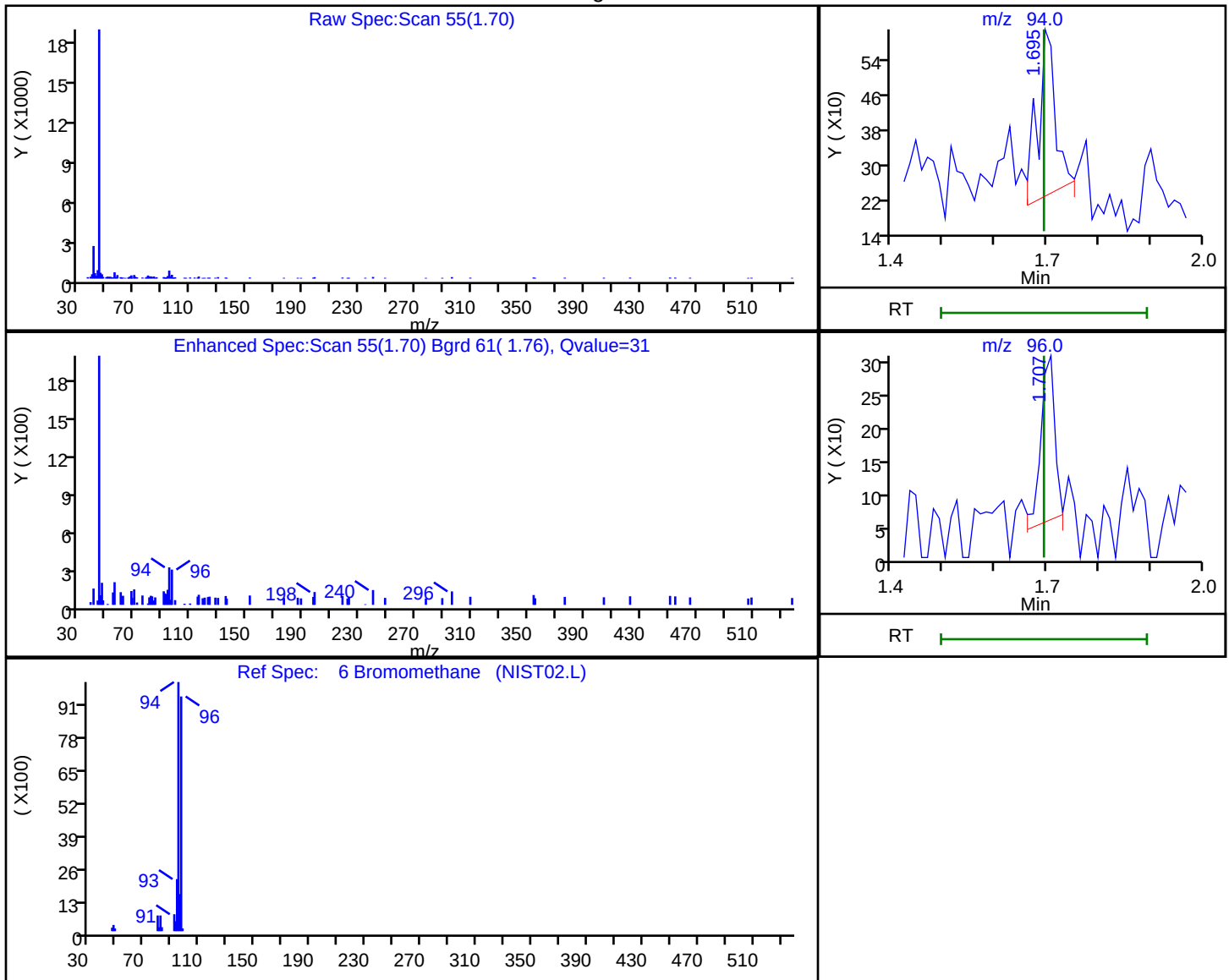
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 6 Bromomethane, CAS: 74-83-9

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 1.70 | 94.00 | 891      | 0.322680 |
| 1.71 | 96.00 | 481      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

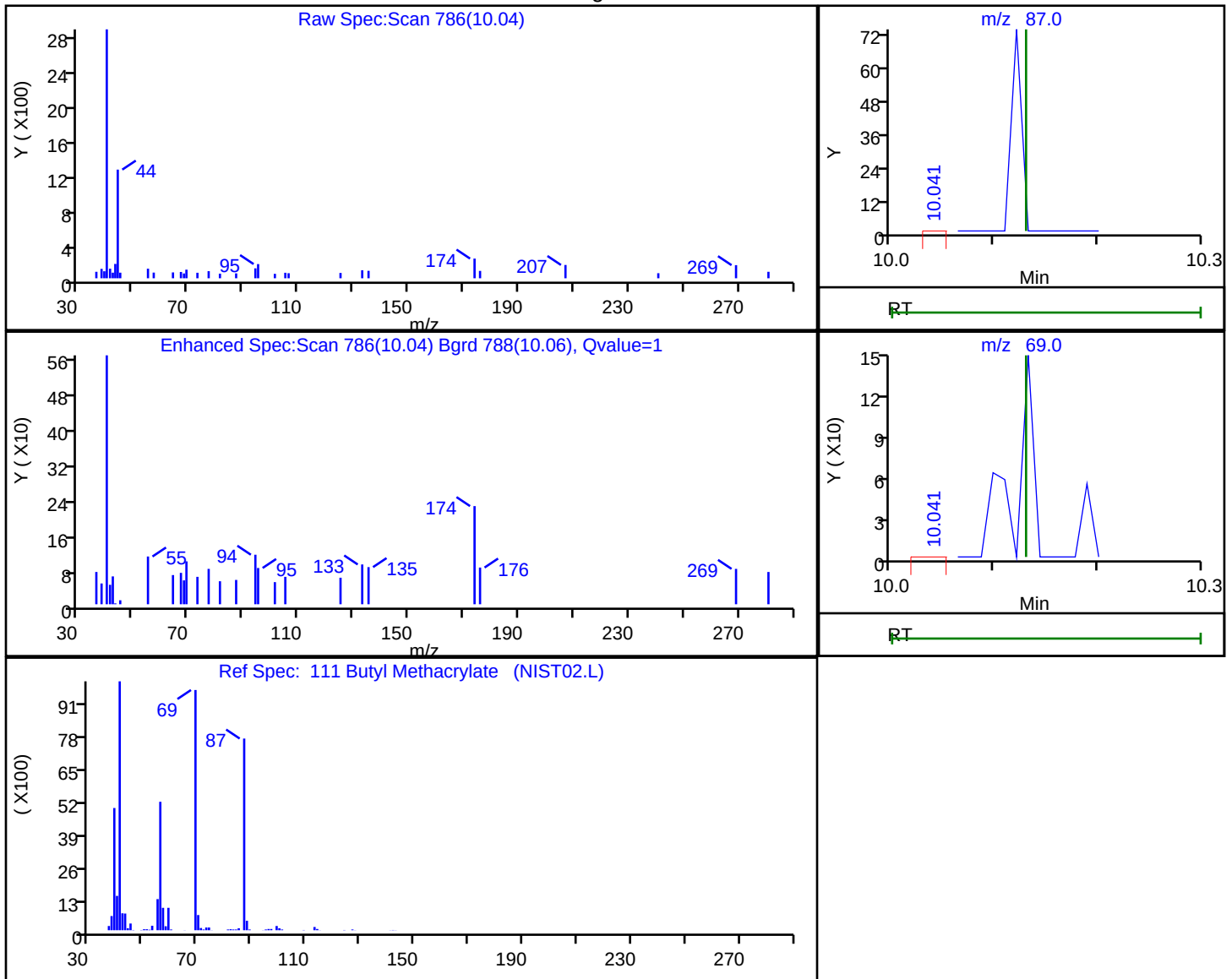
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

**111 Butyl Methacrylate, CAS: 97-88-1**

## Processing Results



| RT    | Mass  | Response | Amount   |
|-------|-------|----------|----------|
| 10.04 | 87.00 | 38       | 0.008626 |
| 10.04 | 69.00 | 116      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

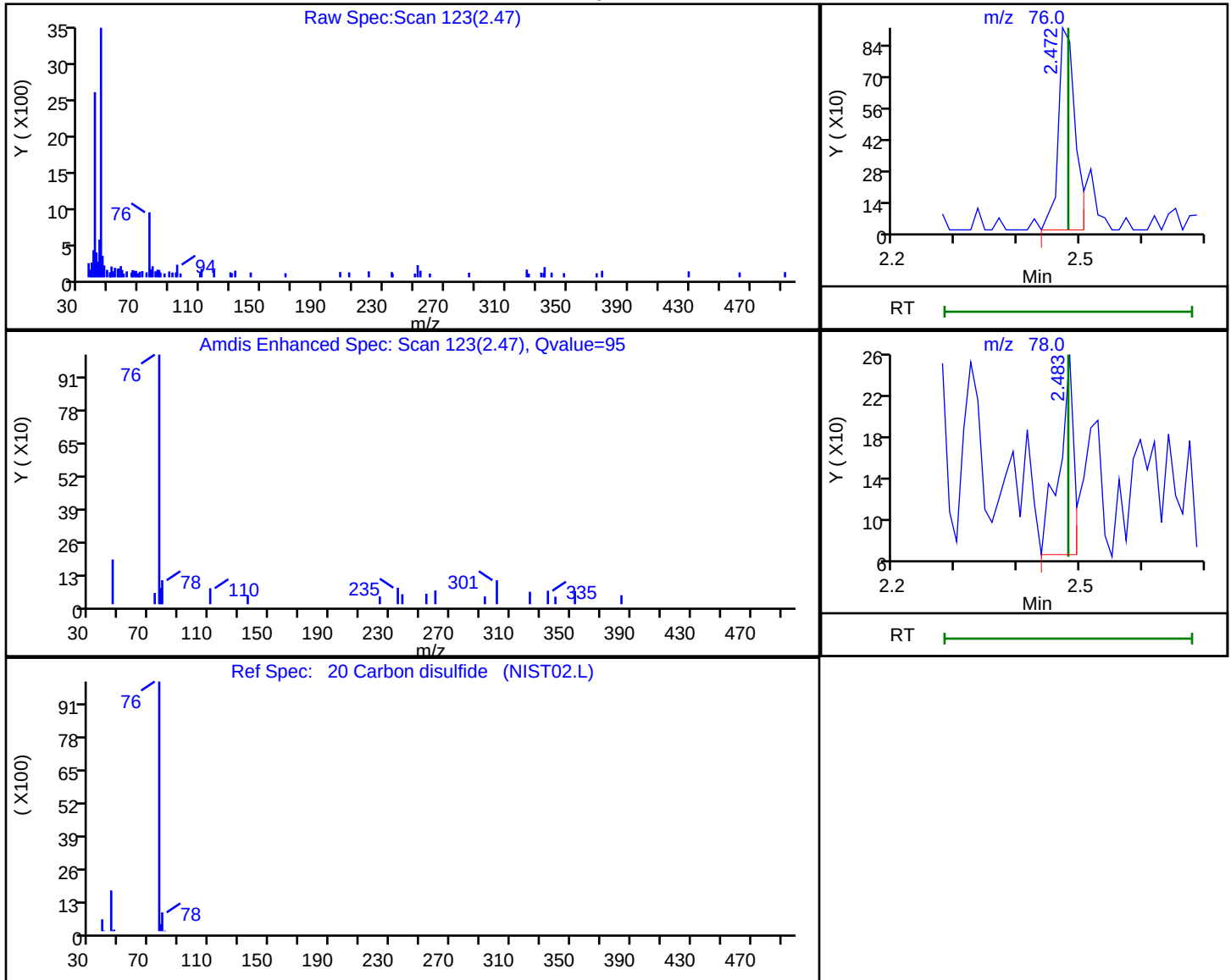
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 20 Carbon disulfide, CAS: 75-15-0

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.47 | 76.00 | 1725     | 0.142669 |
| 2.48 | 78.00 | 302      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

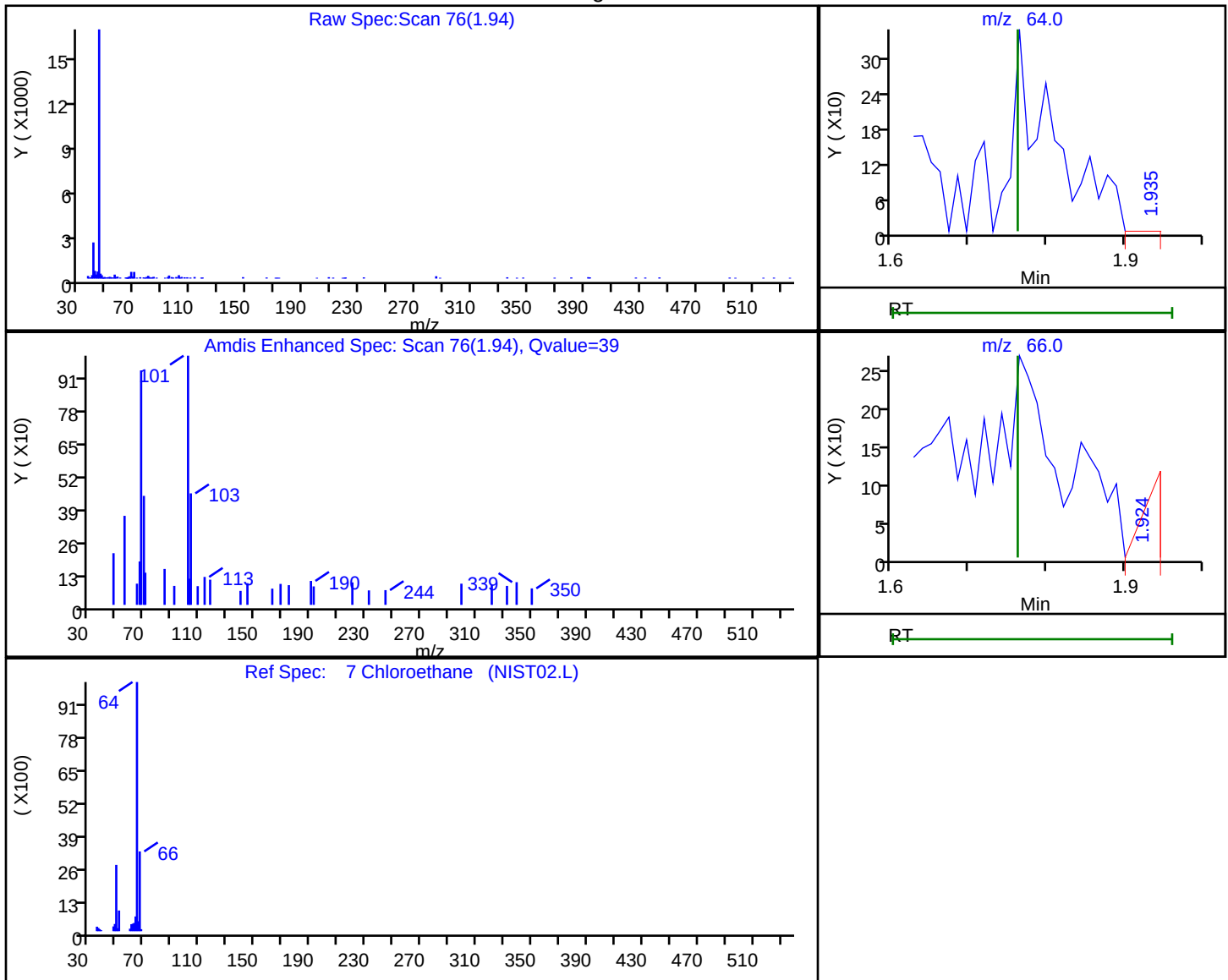
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 7 Chloroethane, CAS: 75-00-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 1.94 | 64.00 | 218      | 0.085247 |
| 1.92 | 66.00 | 237      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

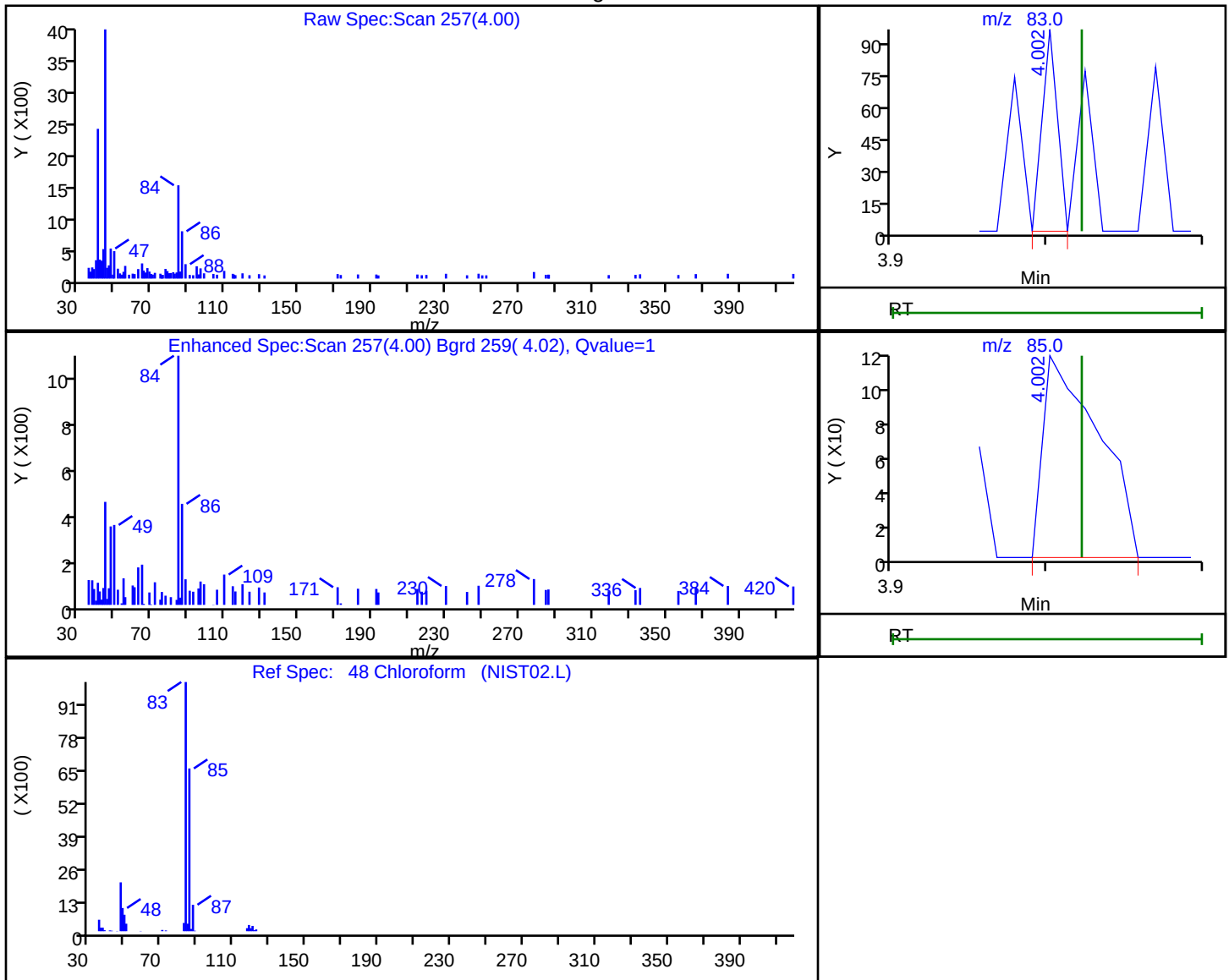
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 48 Chloroform, CAS: 67-66-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.00 | 83.00 | 66       | 0.010645 |
| 4.00 | 85.00 | 276      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

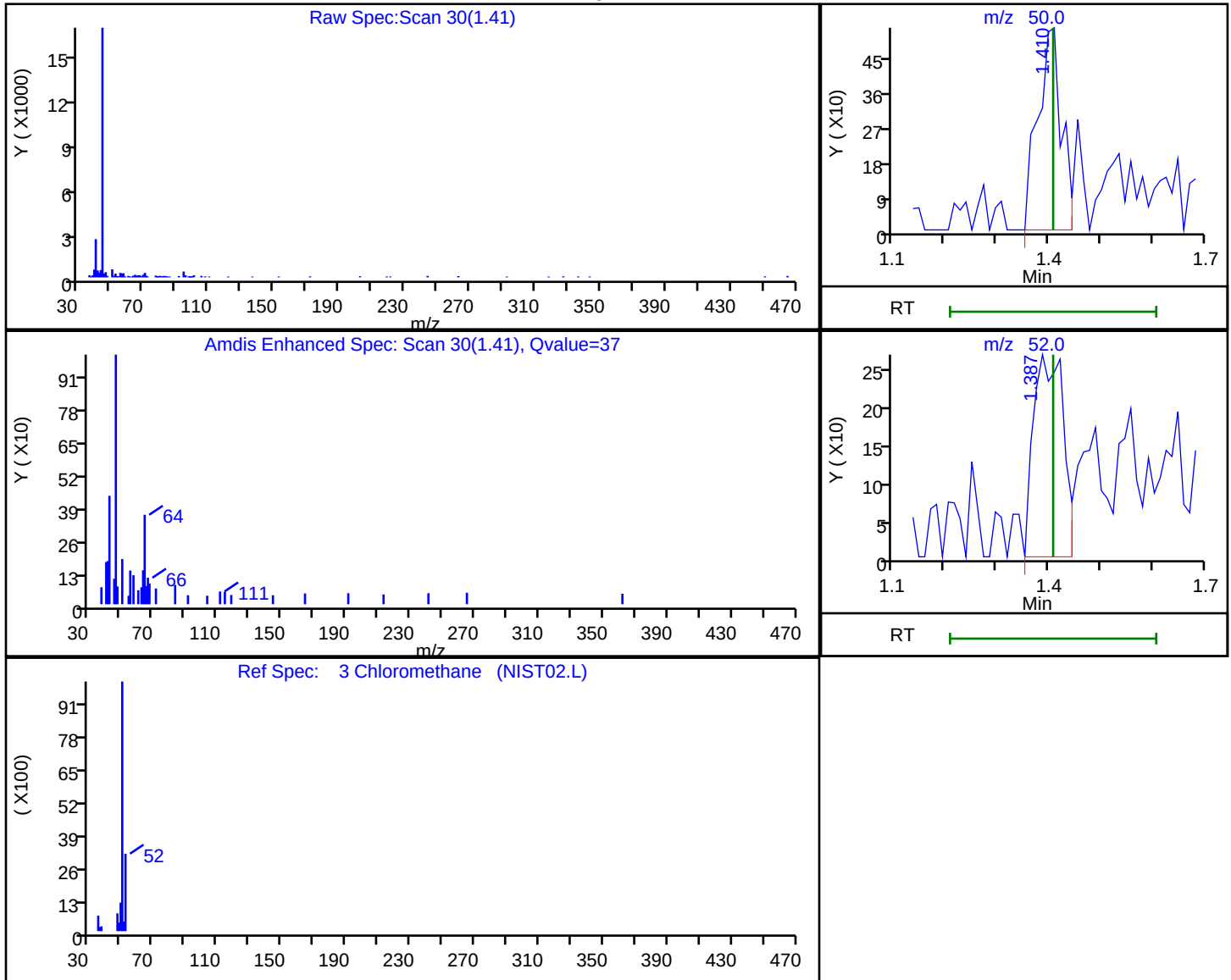
Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector MS SCAN

**3 Chloromethane, CAS: 74-87-3**

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 1.41 | 50.00 | 1677     | 0.296155 |
| 1.39 | 52.00 | 1076     |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

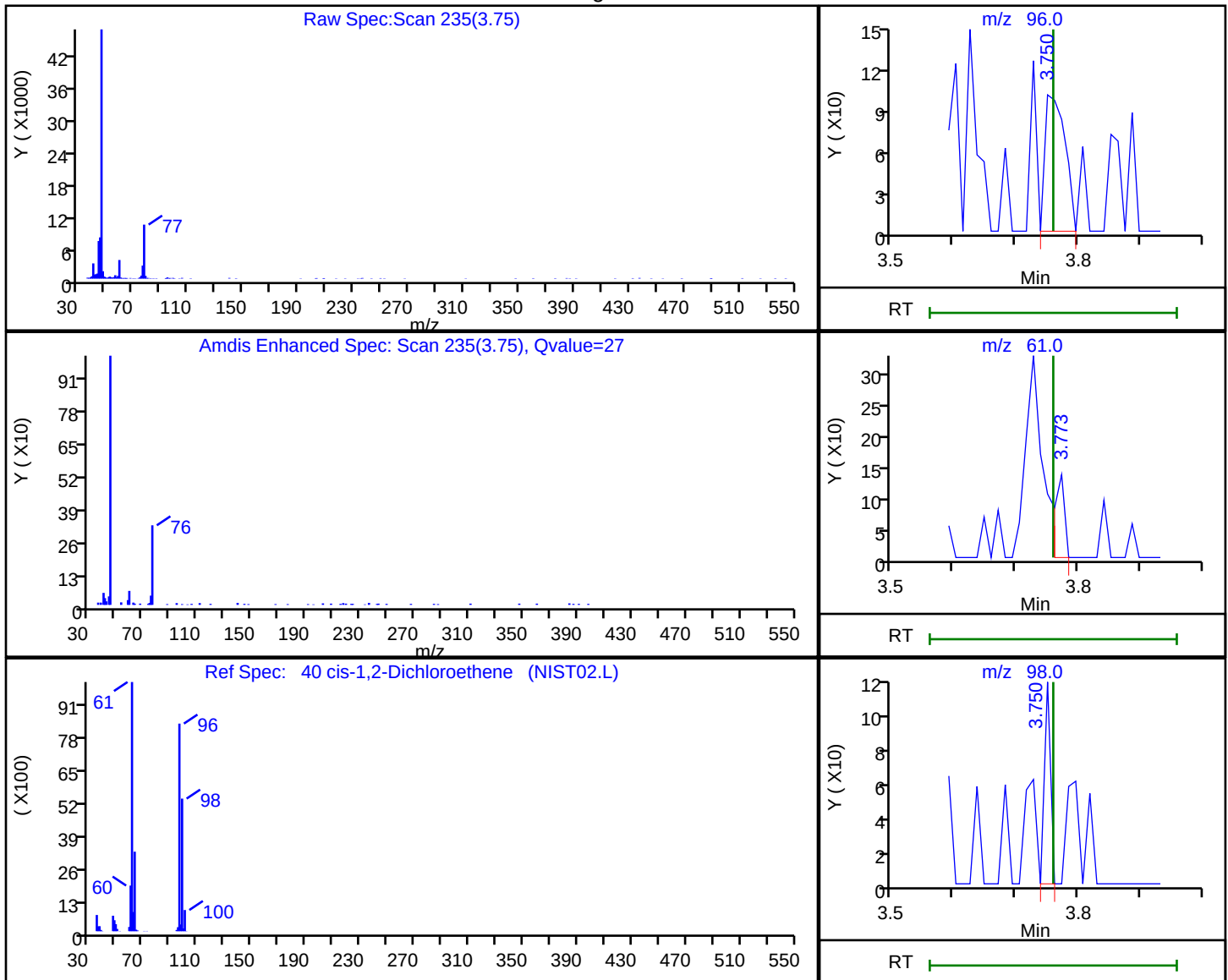
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 40 cis-1,2-Dichloroethene, CAS: 156-59-2

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.75 | 96.00 | 225      | 0.055097 |
| 3.77 | 61.00 | 146      |          |
| 3.75 | 98.00 | 80       |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

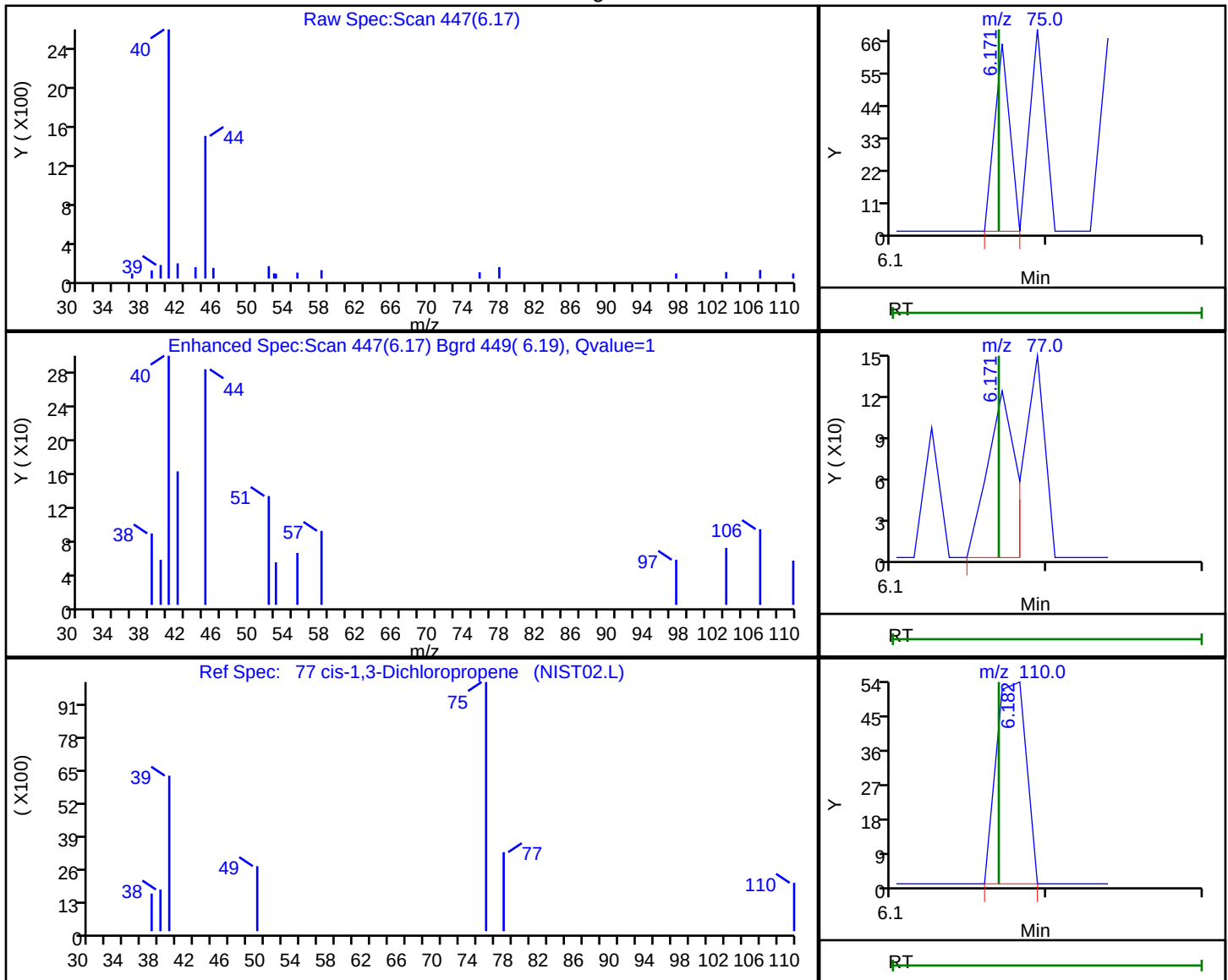
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 77 cis-1,3-Dichloropropene, CAS: 10061-01-5

## Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 6.17 | 75.00  | 45       | 0.008649 |
| 6.17 | 77.00  | 155      |          |
| 6.18 | 110.00 | 73       |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

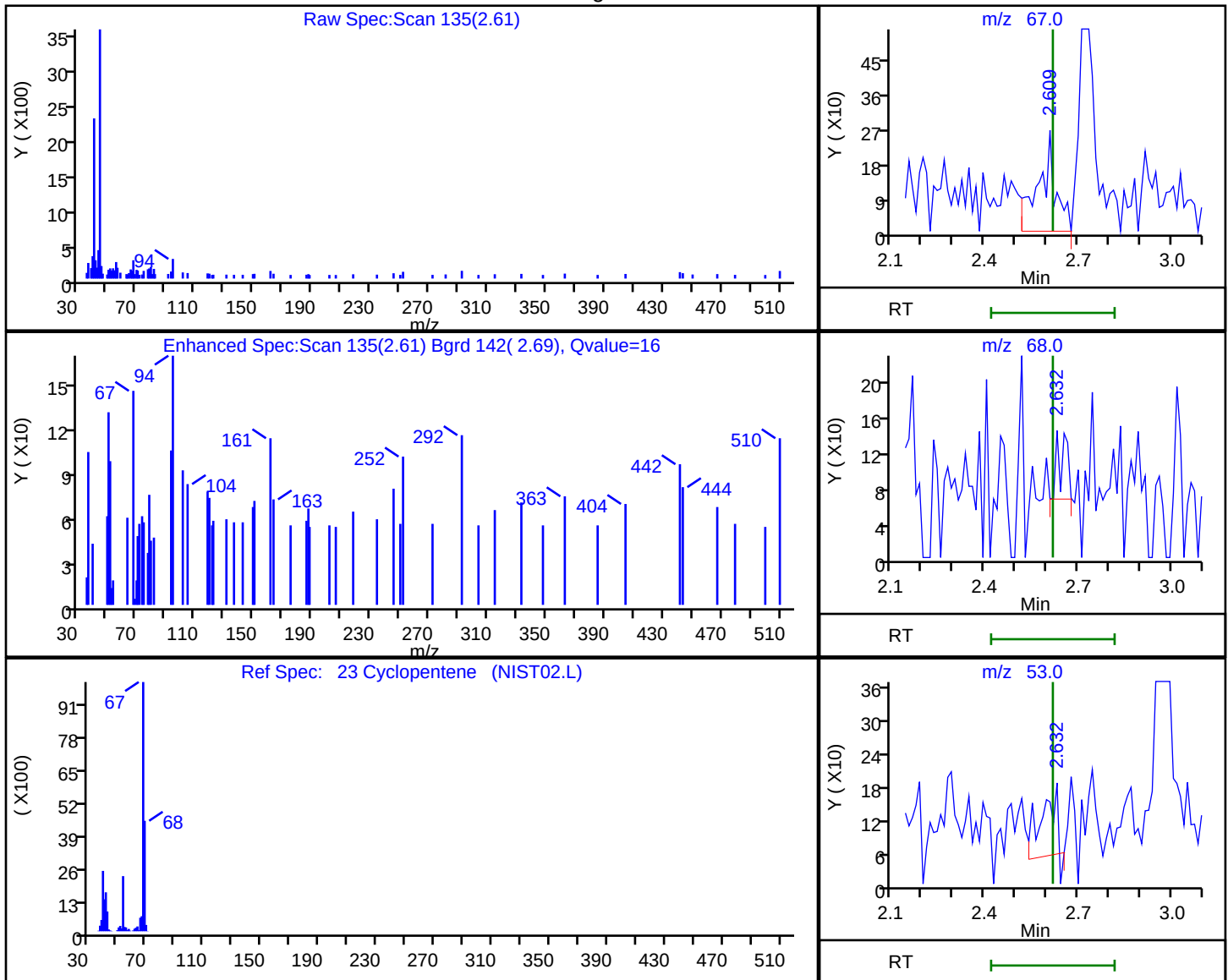
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 23 Cyclopentene, CAS: 142-29-0

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.61 | 67.00 | 994      | 0.116941 |
| 2.63 | 68.00 | 150      |          |
| 2.63 | 53.00 | 422      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

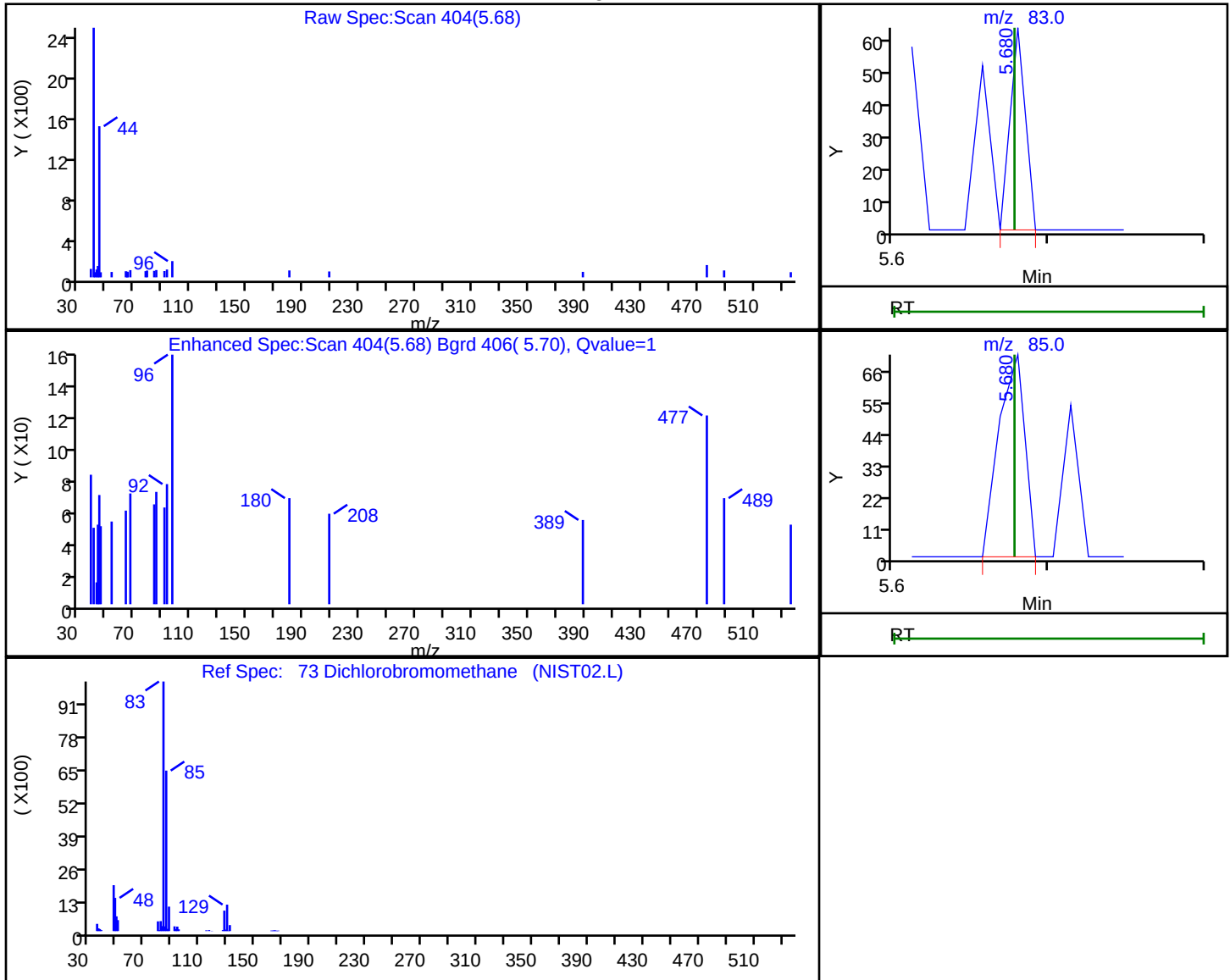
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 73 Dichlorobromomethane, CAS: 75-27-4

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.68 | 83.00 | 44       | 0.008919 |
| 5.68 | 85.00 | 84       |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

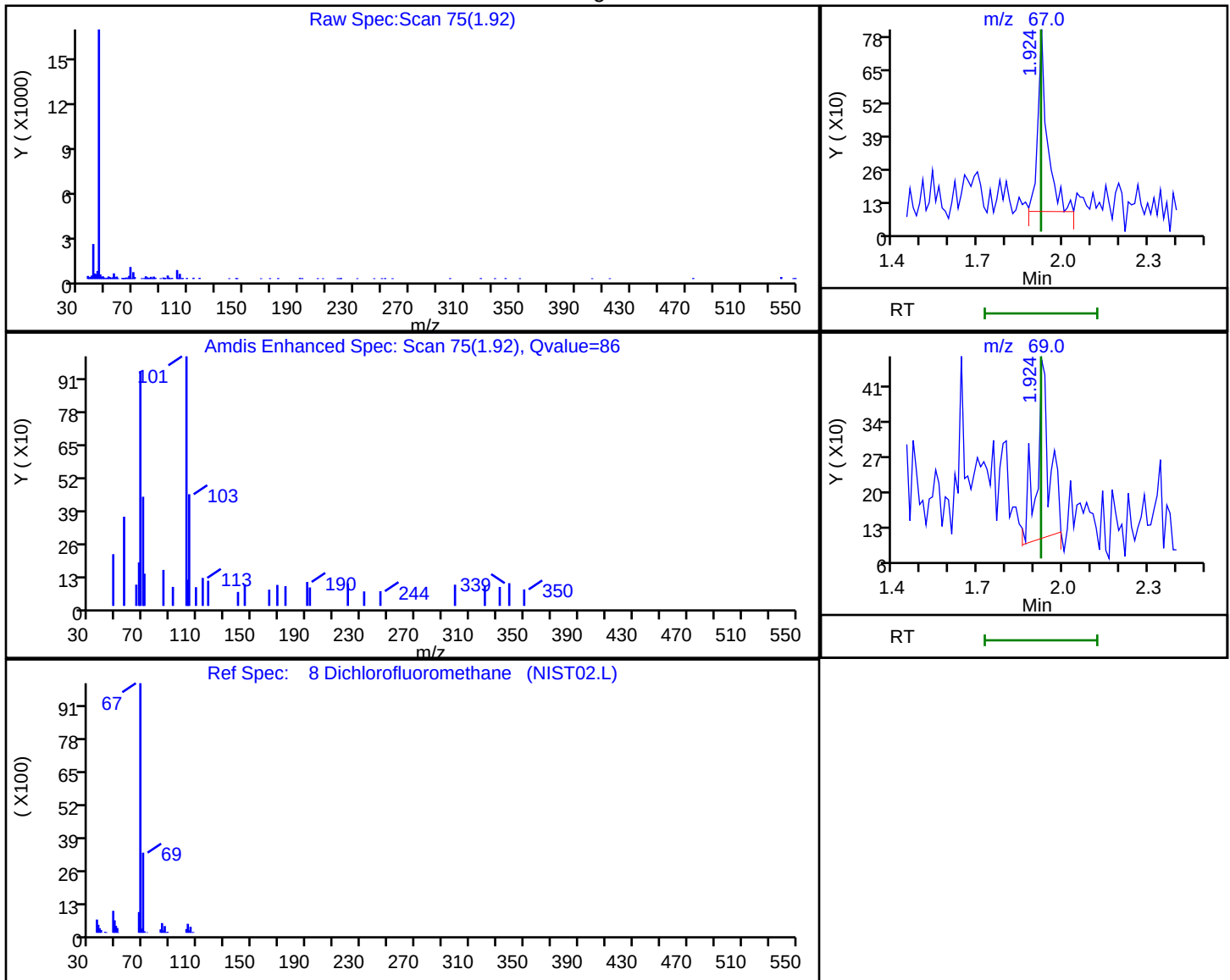
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 8 Dichlorofluoromethane, CAS: 75-43-4

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 1.92 | 67.00 | 1634     | 0.247128 |
| 1.92 | 69.00 | 1102     |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

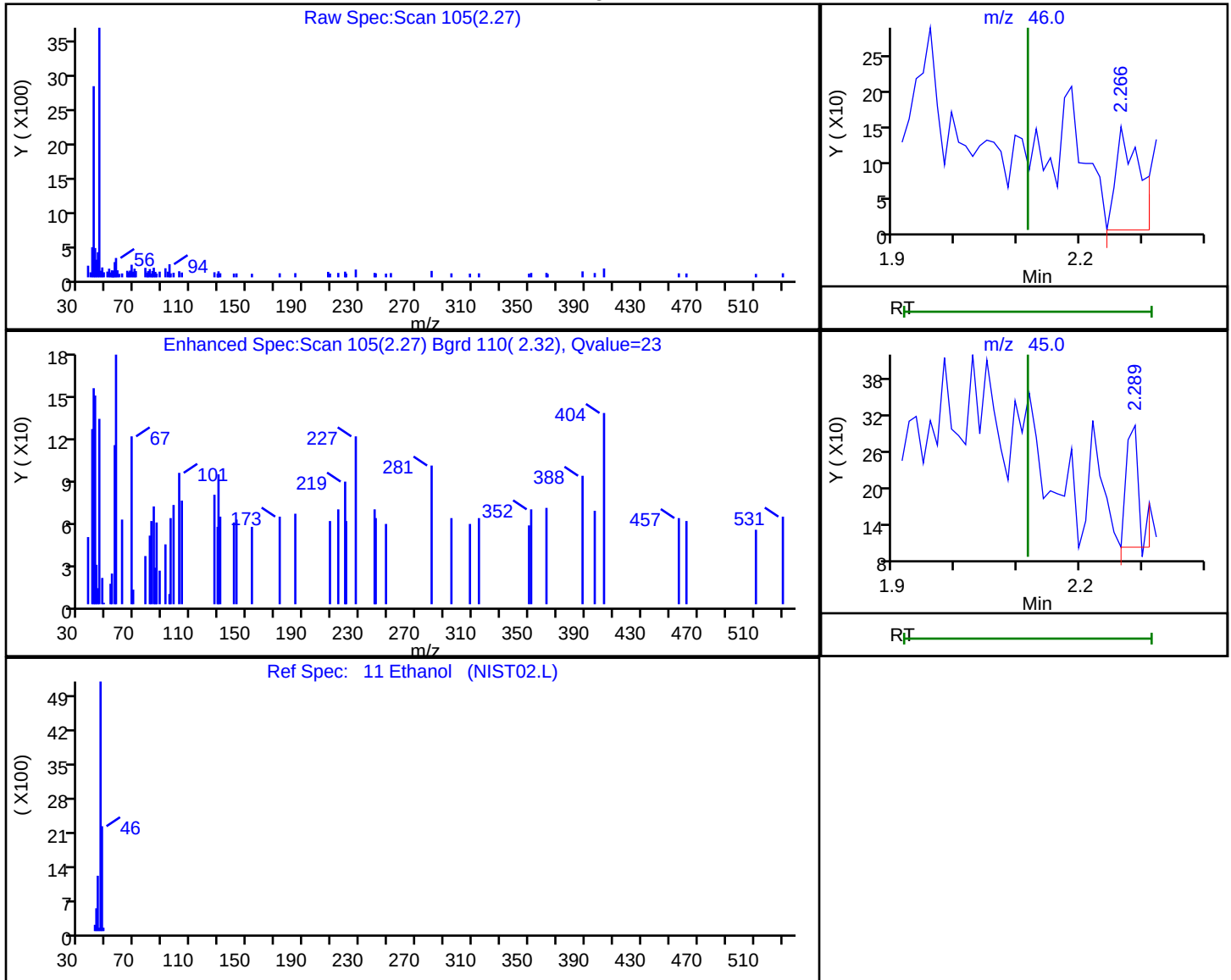
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 11 Ethanol, CAS: 64-17-5

## Processing Results



| RT   | Mass  | Response | Amount     |
|------|-------|----------|------------|
| 2.27 | 46.00 | 385      | -11.028792 |
| 2.29 | 45.00 | 301      |            |

Reviewer: pakanatir, 20-Sep-2018 17:51:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

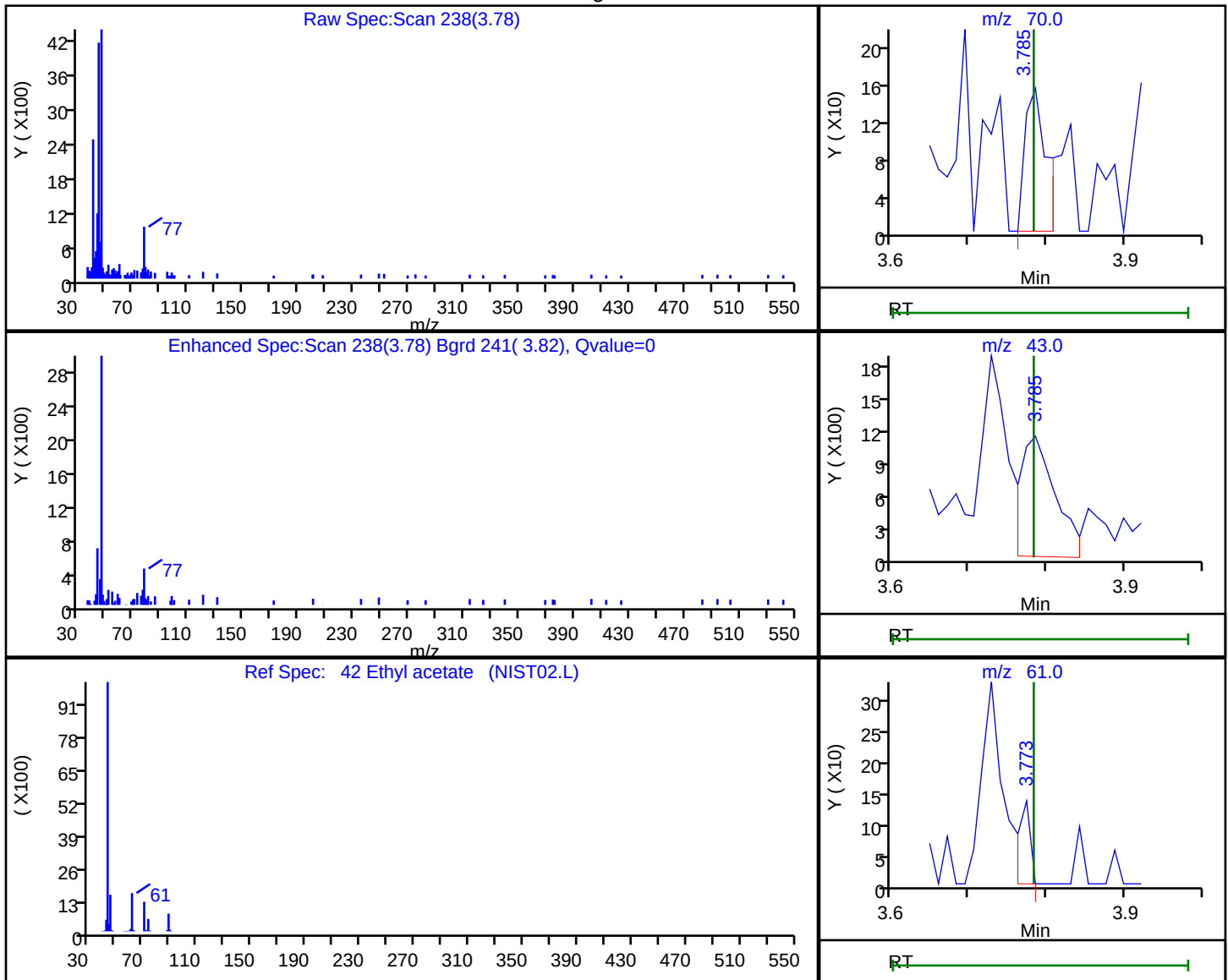
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 42 Ethyl acetate, CAS: 141-78-6

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.78 | 70.00 | 294      | 0.580186 |
| 3.78 | 43.00 | 3415     |          |
| 3.77 | 61.00 | 146      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:28

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

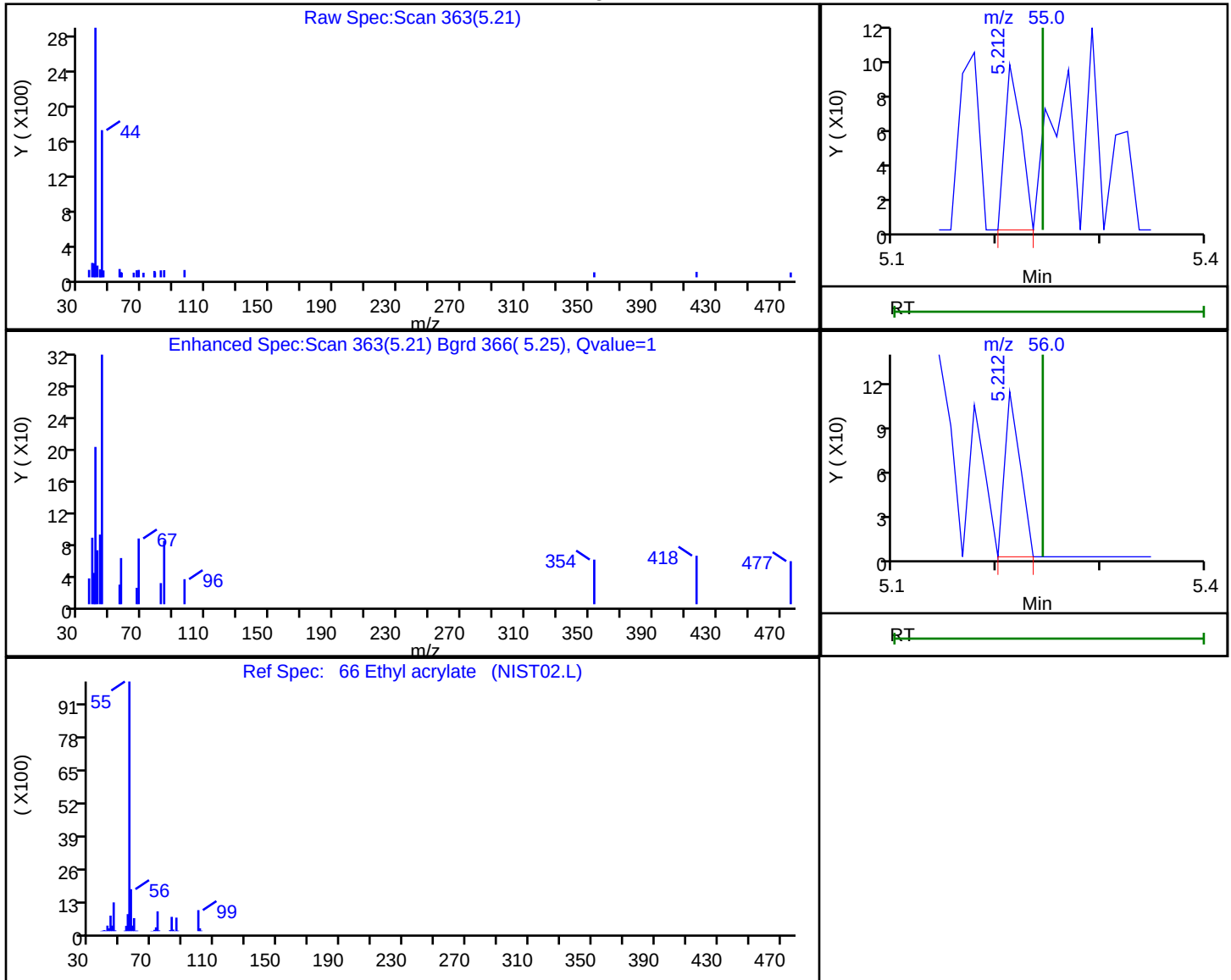
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 66 Ethyl acrylate, CAS: 140-88-5

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.21 | 55.00 | 103      | 0.018761 |
| 5.21 | 56.00 | 115      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

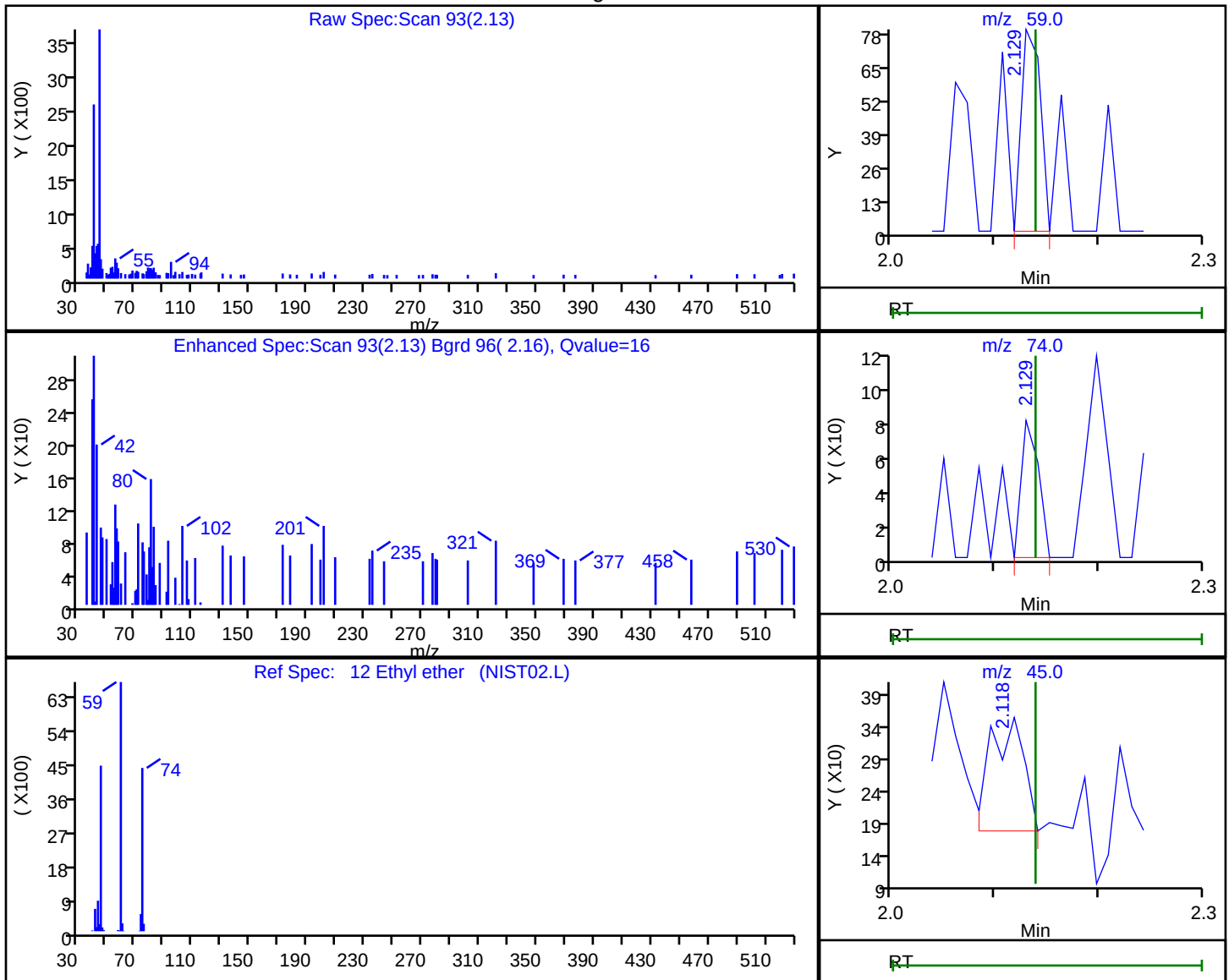
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 12 Ethyl ether, CAS: 60-29-7

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.13 | 59.00 | 102      | 0.037419 |
| 2.13 | 74.00 | 88       |          |
| 2.12 | 45.00 | 399      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

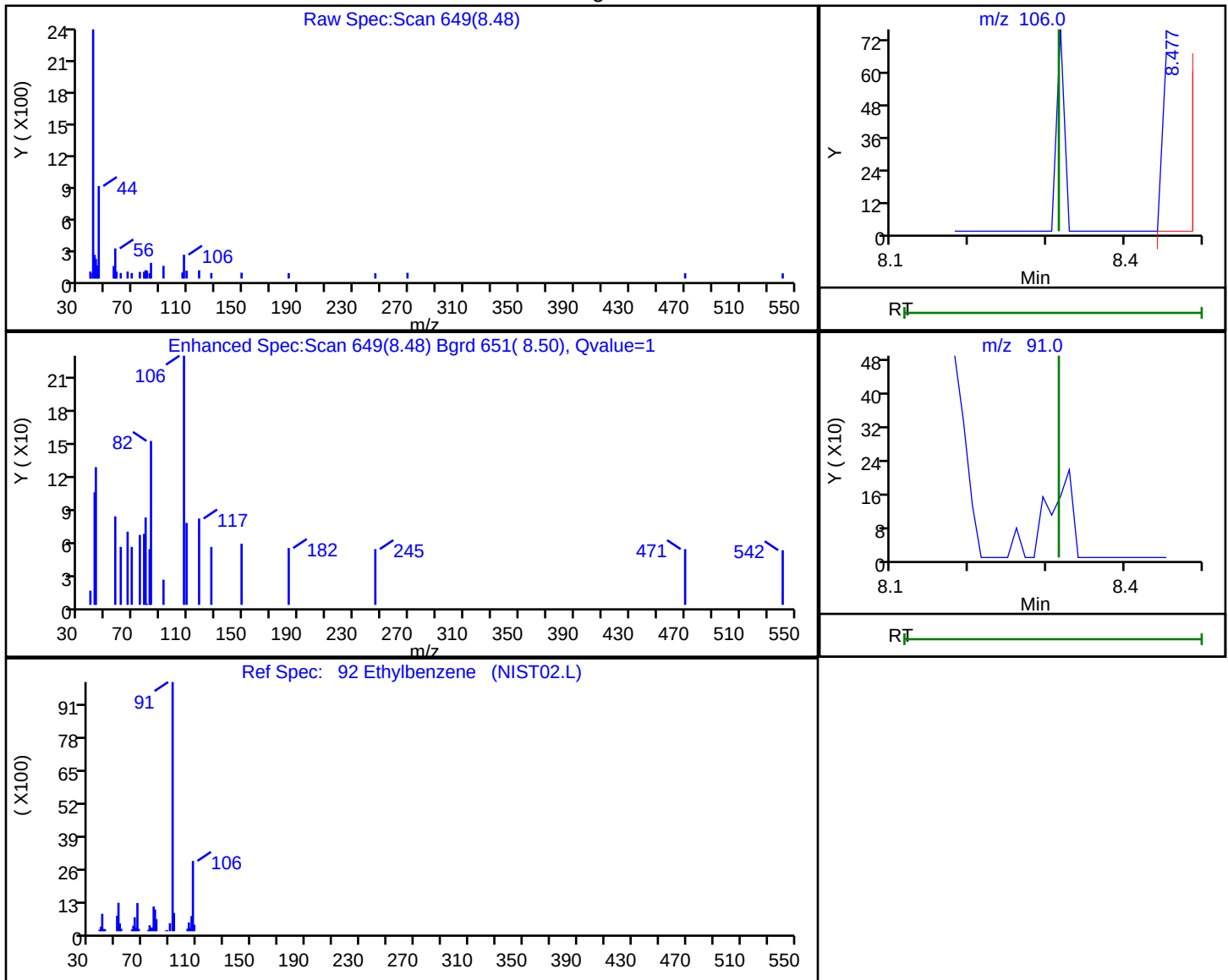
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 92 Ethylbenzene, CAS: 100-41-4

## Processing Results



Reviewer: pakanatir, 20-Sep-2018 17:54:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

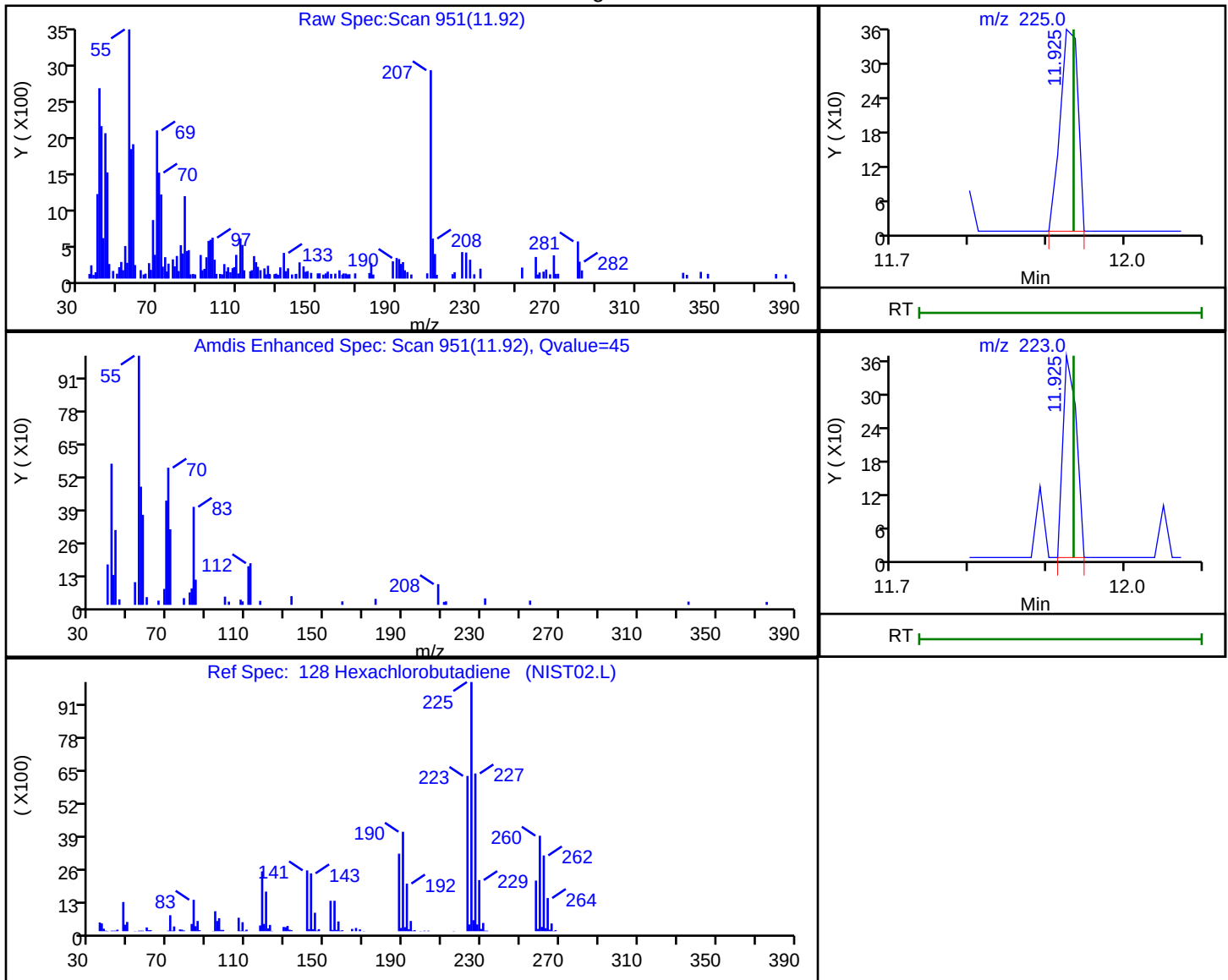
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 128 Hexachlorobutadiene, CAS: 87-68-3

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 11.92 | 225.00 | 572      | 0.415433 |
| 11.92 | 223.00 | 438      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

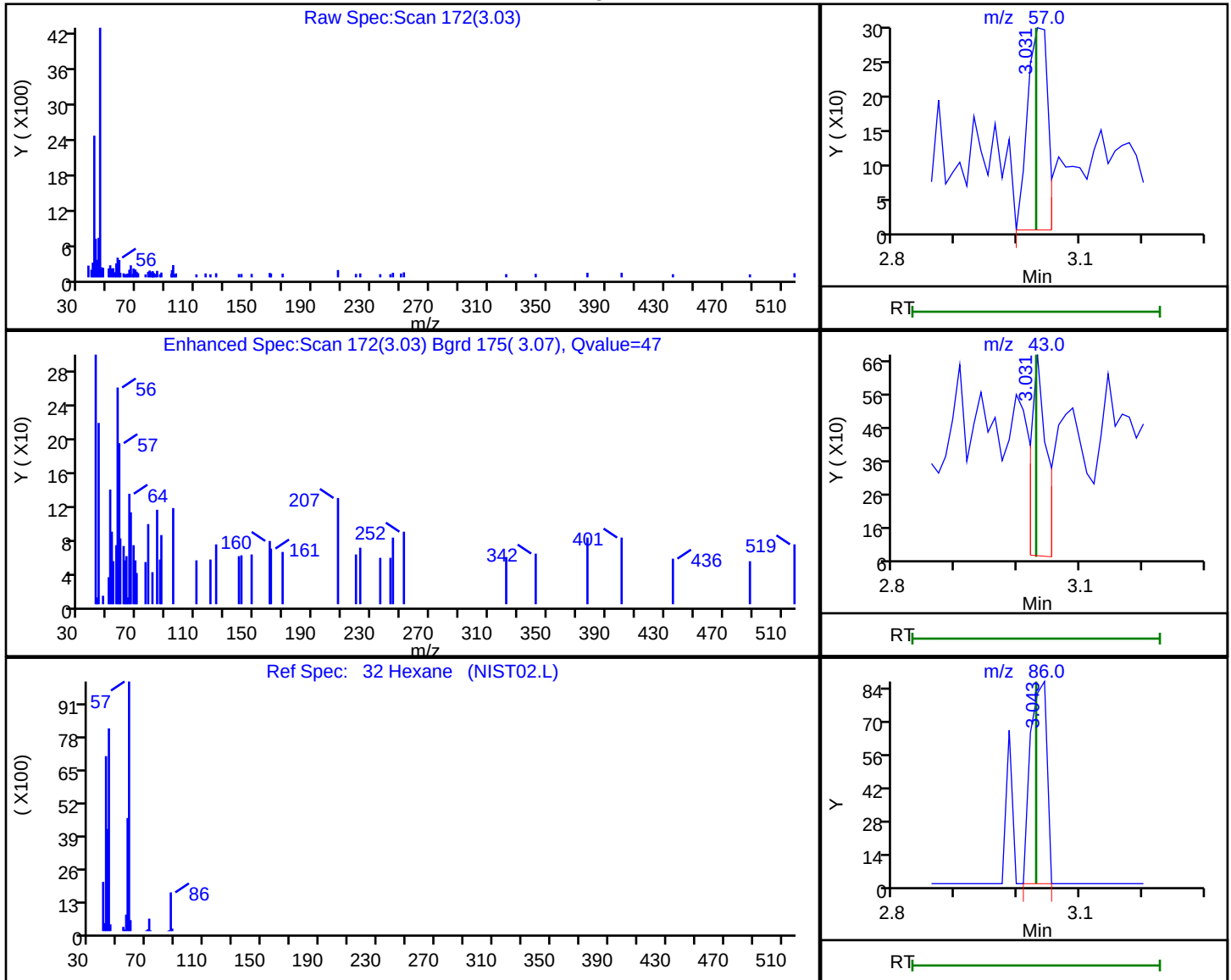
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 32 Hexane, CAS: 110-54-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.03 | 57.00 | 688      | 0.193575 |
| 3.03 | 43.00 | 1076     |          |
| 3.04 | 86.00 | 160      |          |
| 3.03 | 56.00 | 567      |          |

Reviewer: pakanatir, 20-Sep-2018 17:52:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

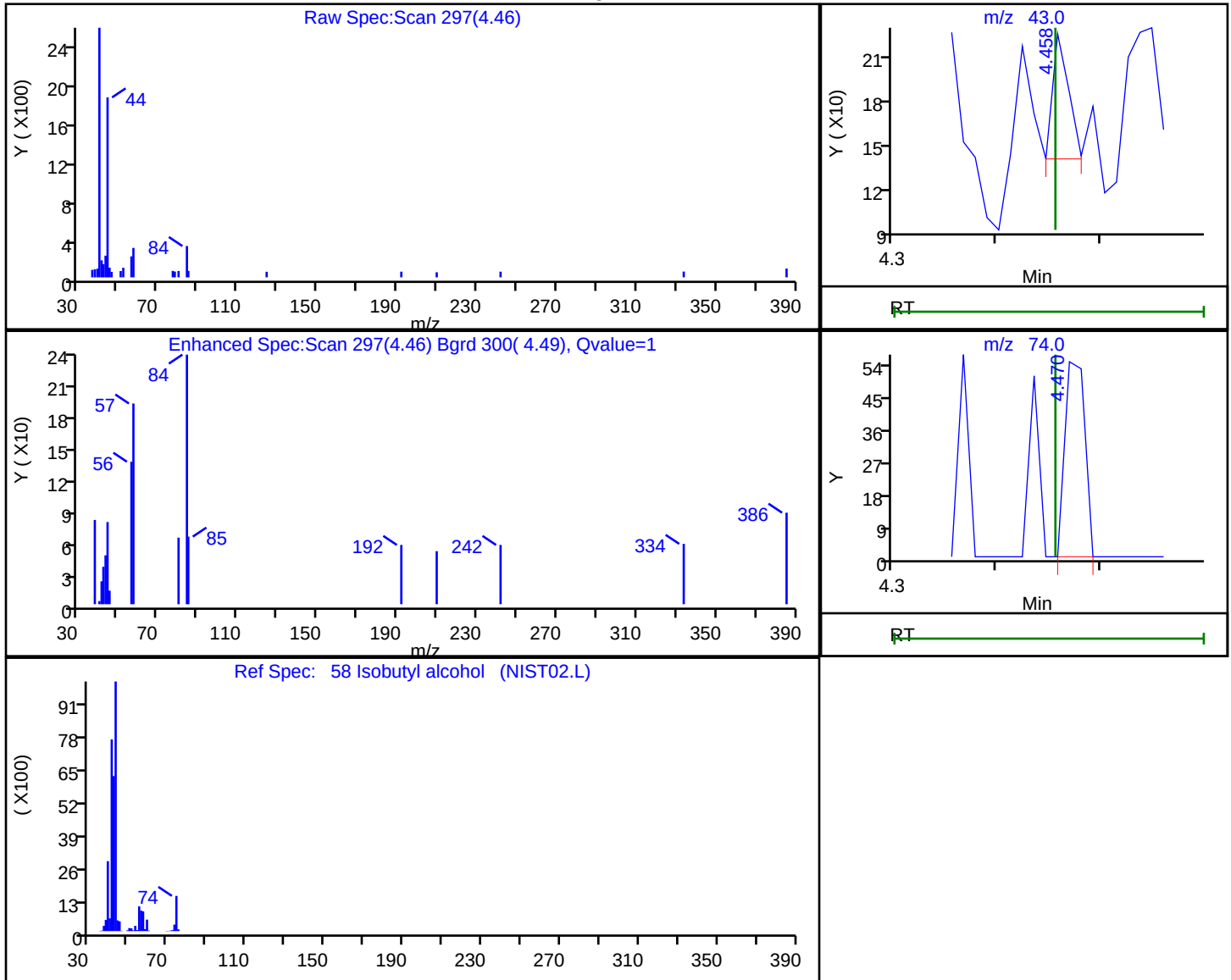
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 58 Isobutyl alcohol, CAS: 78-83-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.46 | 43.00 | 86       | 0.435549 |
| 4.47 | 74.00 | 74       |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

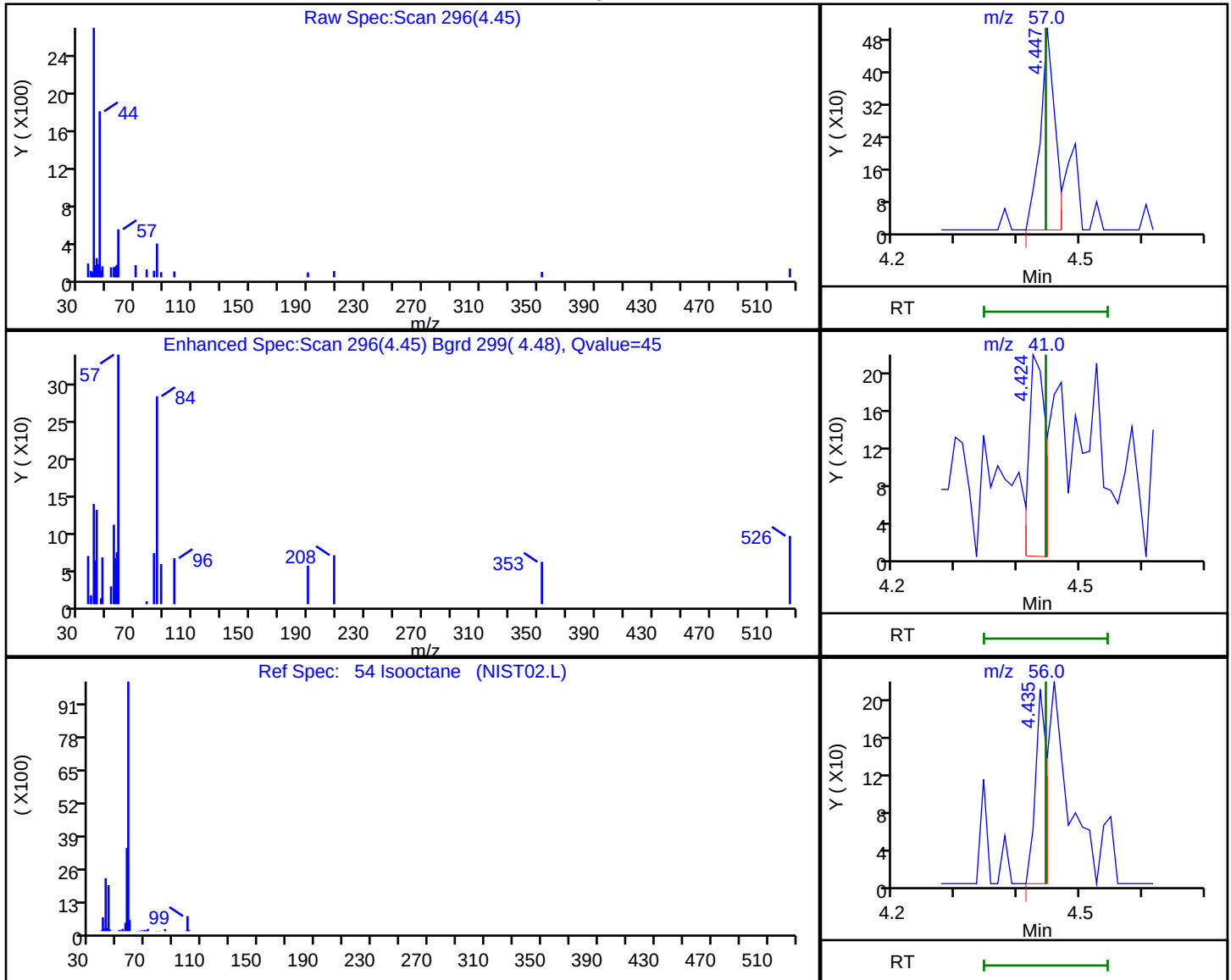
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 54 Isooctane, CAS: 540-84-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.45 | 57.00 | 826      | 0.139663 |
| 4.42 | 41.00 | 401      |          |
| 4.44 | 56.00 | 268      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

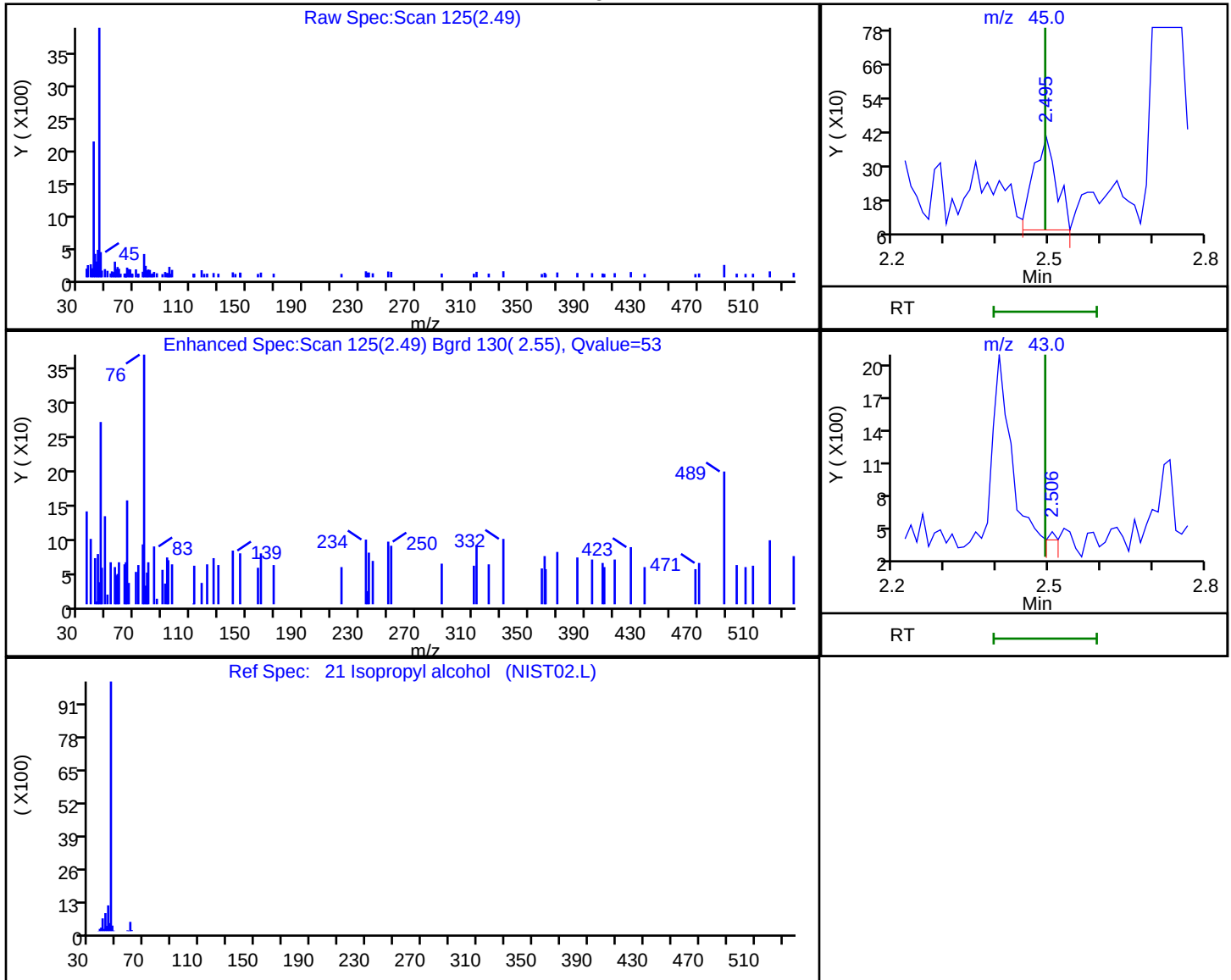
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 21 Isopropyl alcohol, CAS: 67-63-0

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.49 | 45.00 | 1036     | 4.023582 |
| 2.51 | 43.00 | 50       |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:46

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

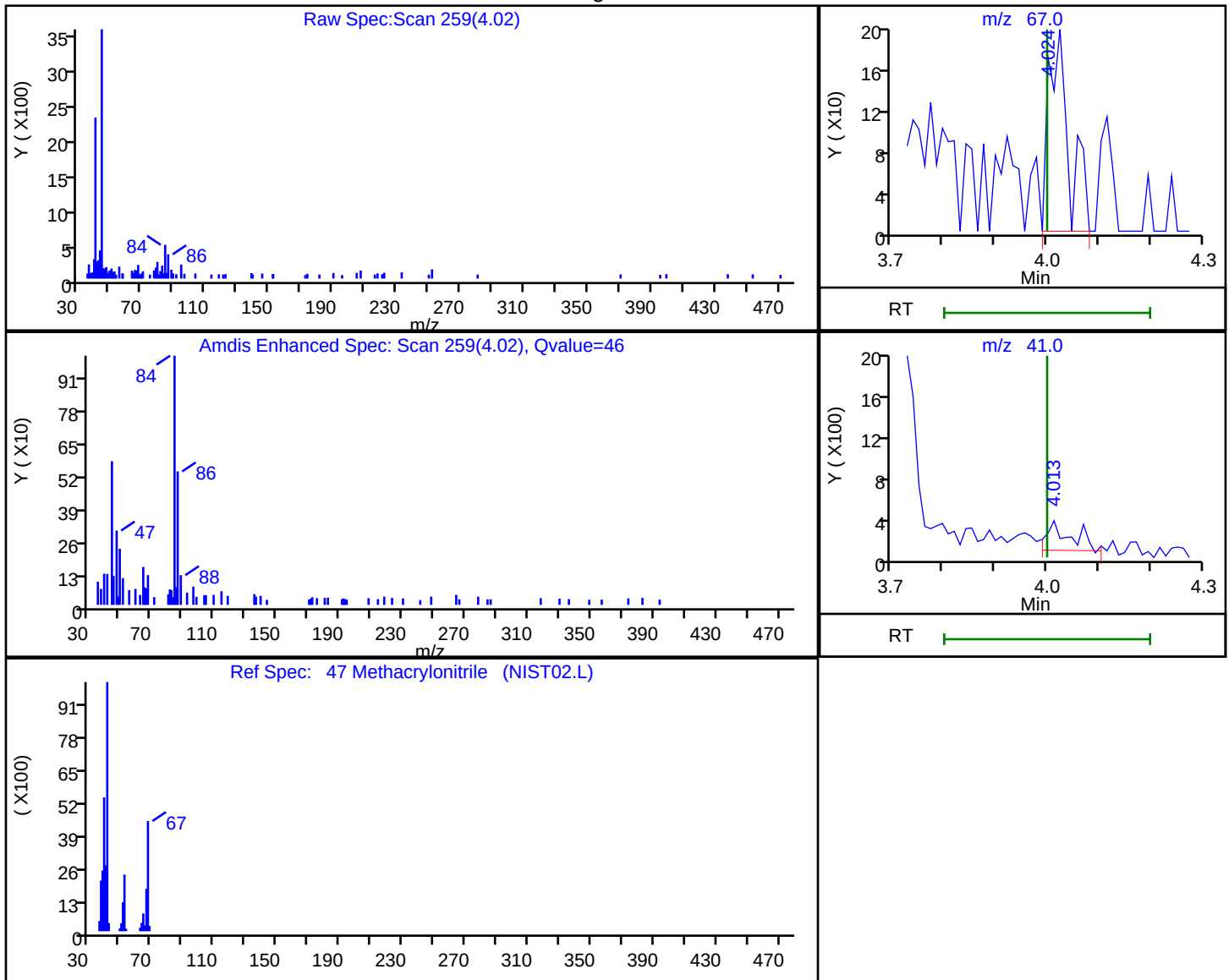
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 47 Methacrylonitrile, CAS: 126-98-7

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.02 | 67.00 | 530      | 0.338666 |
| 4.01 | 41.00 | 883      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

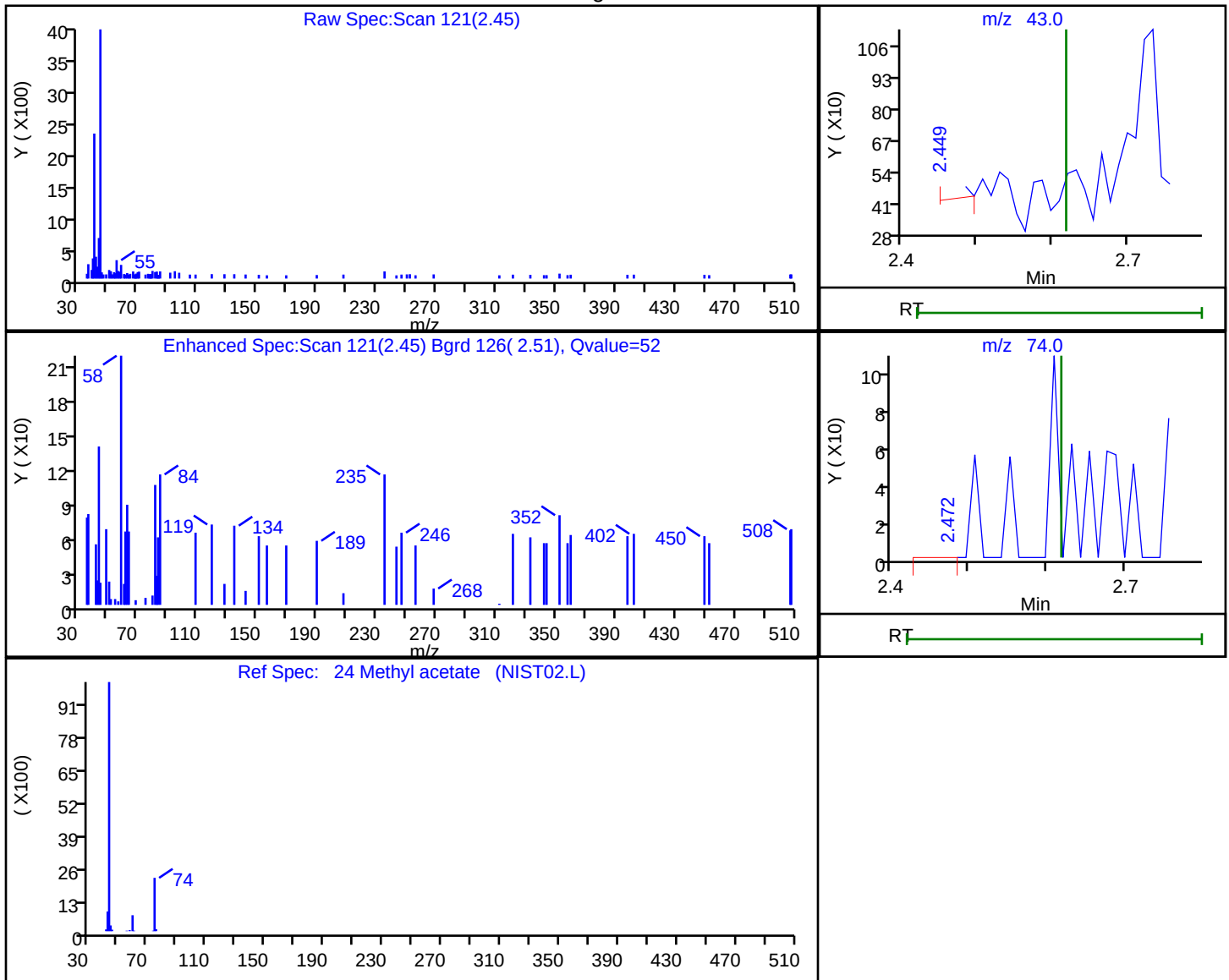
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 24 Methyl acetate, CAS: 79-20-9

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.45 | 43.00 | 401      | 0.122073 |
| 2.47 | 74.00 | 134      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

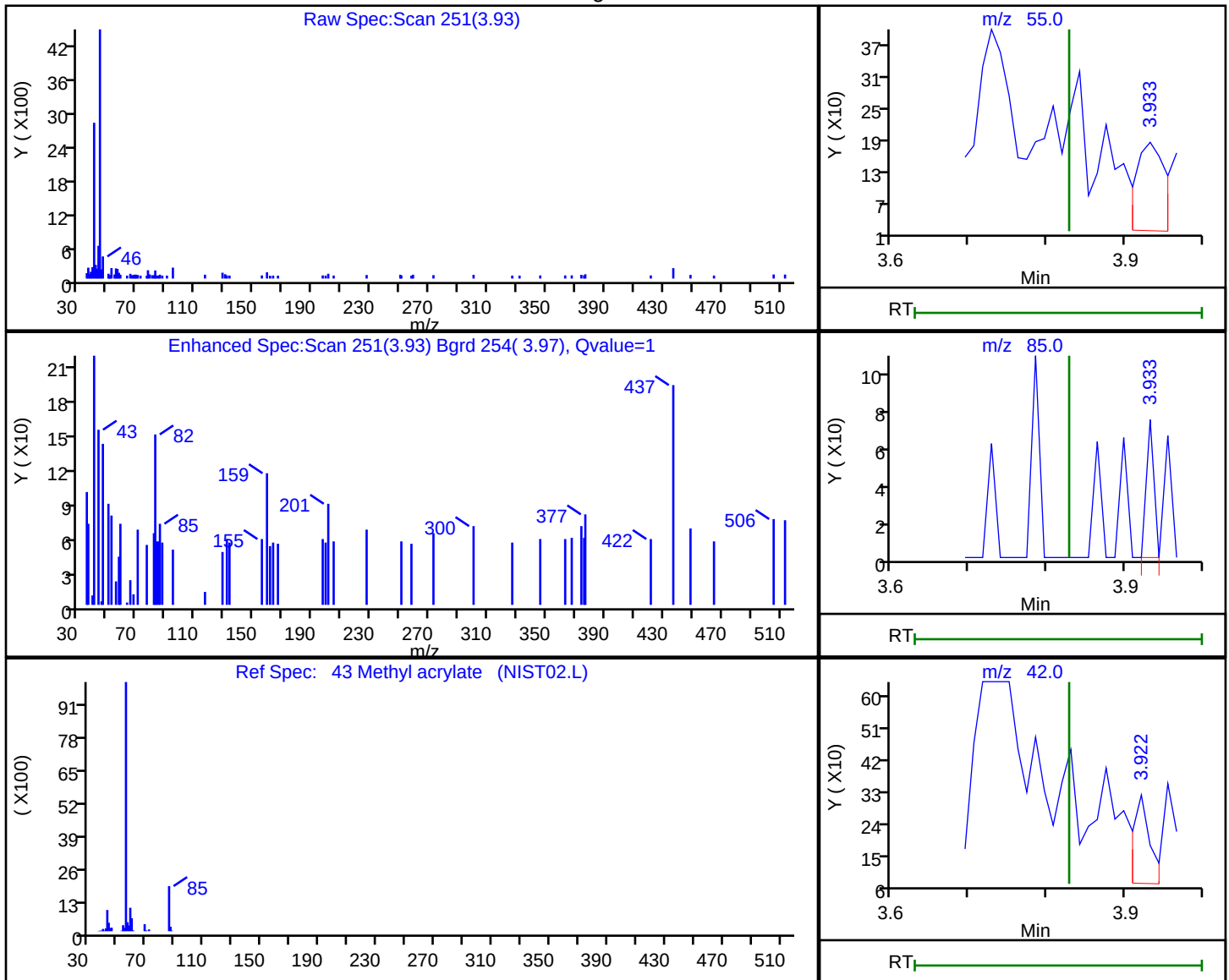
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 43 Methyl acrylate, CAS: 96-33-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.93 | 55.00 | 437      | 0.119838 |
| 3.93 | 85.00 | 47       |          |
| 3.92 | 42.00 | 384      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:28

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

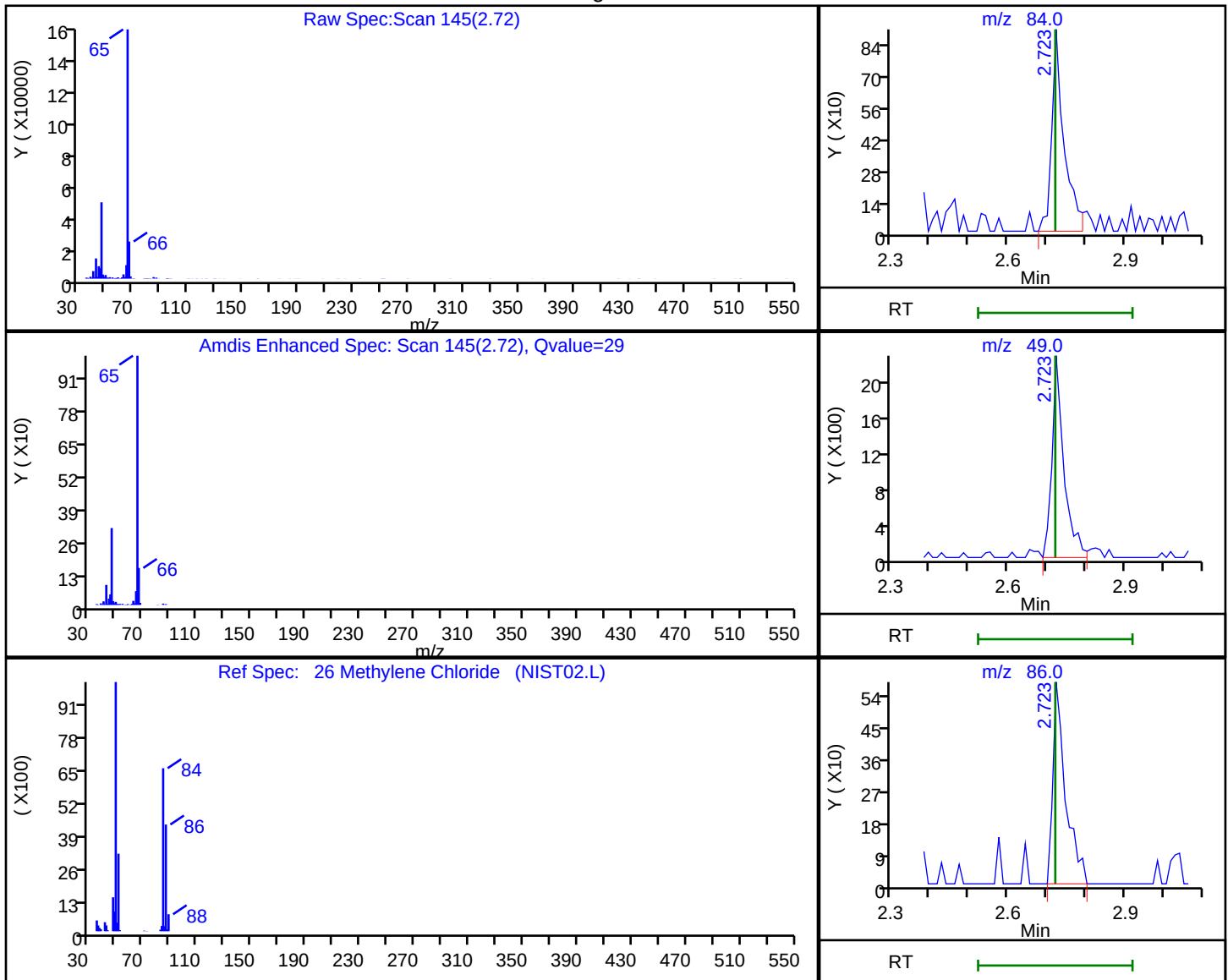
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 26 Methylene Chloride, CAS: 75-09-2

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.72 | 84.00 | 2021     | 0.506761 |
| 2.72 | 49.00 | 4774     |          |
| 2.72 | 86.00 | 1310     |          |

Reviewer: pakanatir, 20-Sep-2018 17:52:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

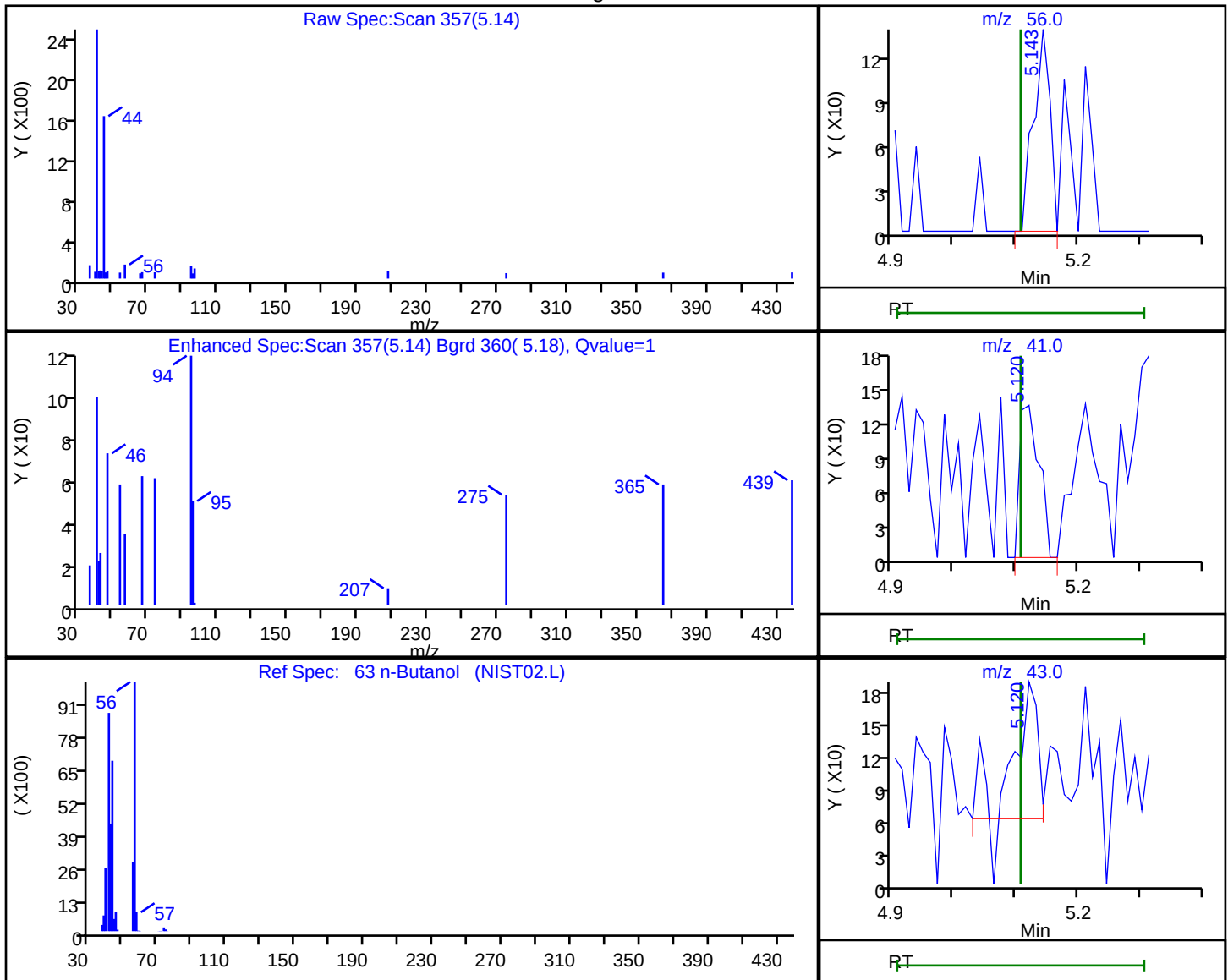
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 63 n-Butanol, CAS: 71-36-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 5.14 | 56.00 | 251      | 2.819055 |
| 5.12 | 41.00 | 288      |          |
| 5.12 | 43.00 | 323      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

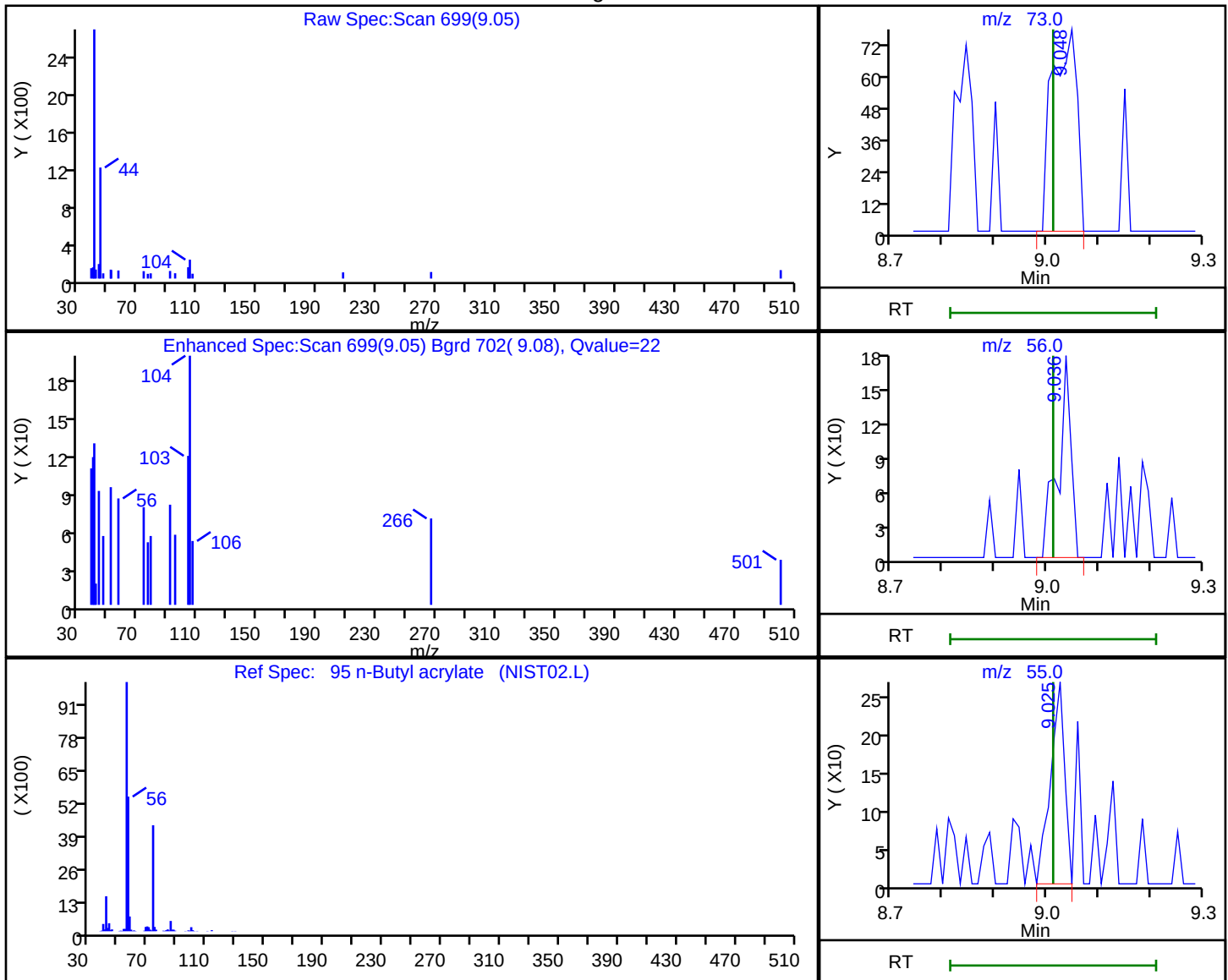
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 95 n-Butyl acrylate, CAS: 141-32-2

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.05 | 73.00 | 258      | 0.090576 |
| 9.04 | 56.00 | 314      |          |
| 9.02 | 55.00 | 511      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

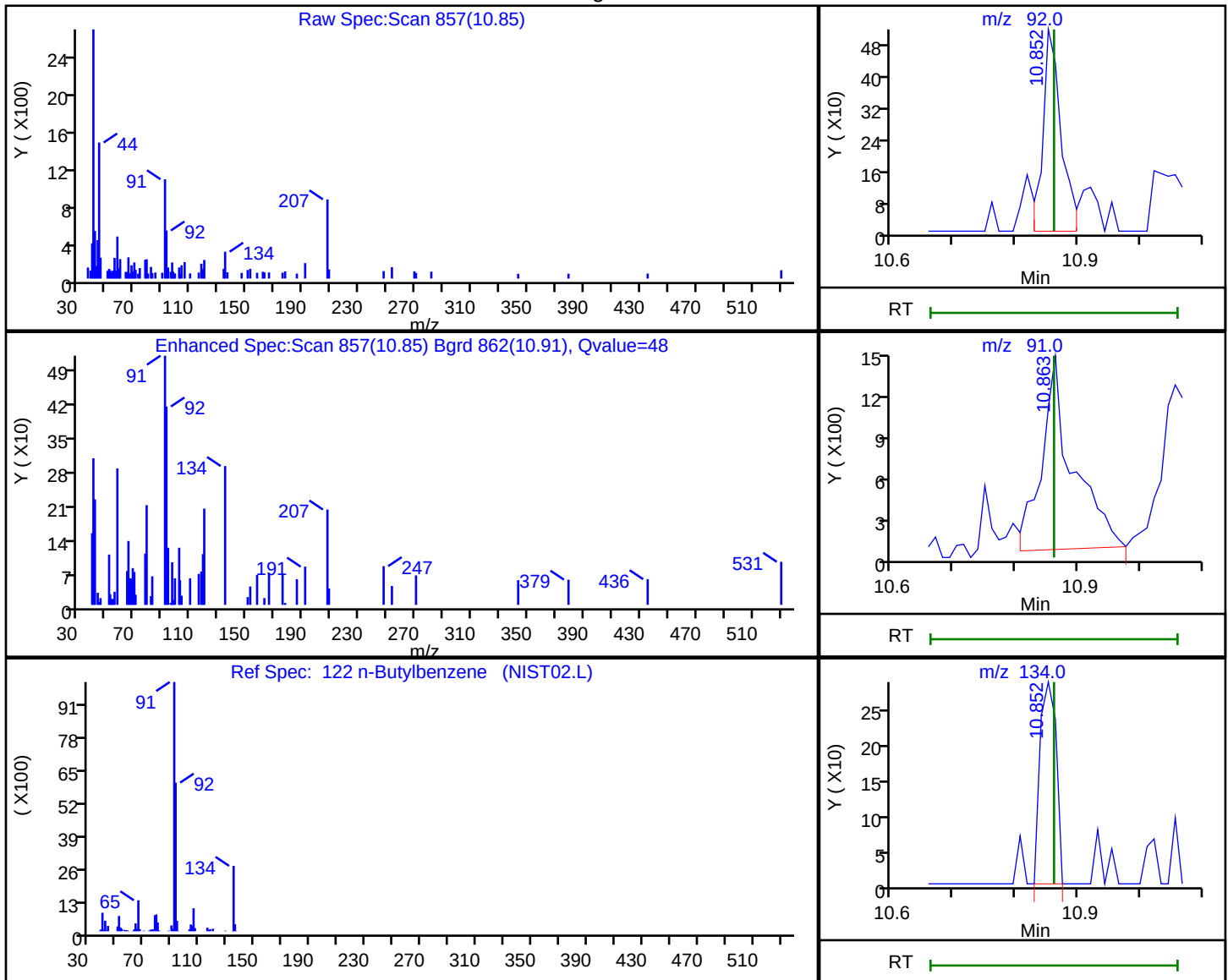
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 122 n-Butylbenzene, CAS: 104-51-8

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.85 | 92.00  | 1056     | 0.228469 |
| 10.86 | 91.00  | 4838     |          |
| 10.85 | 134.00 | 521      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

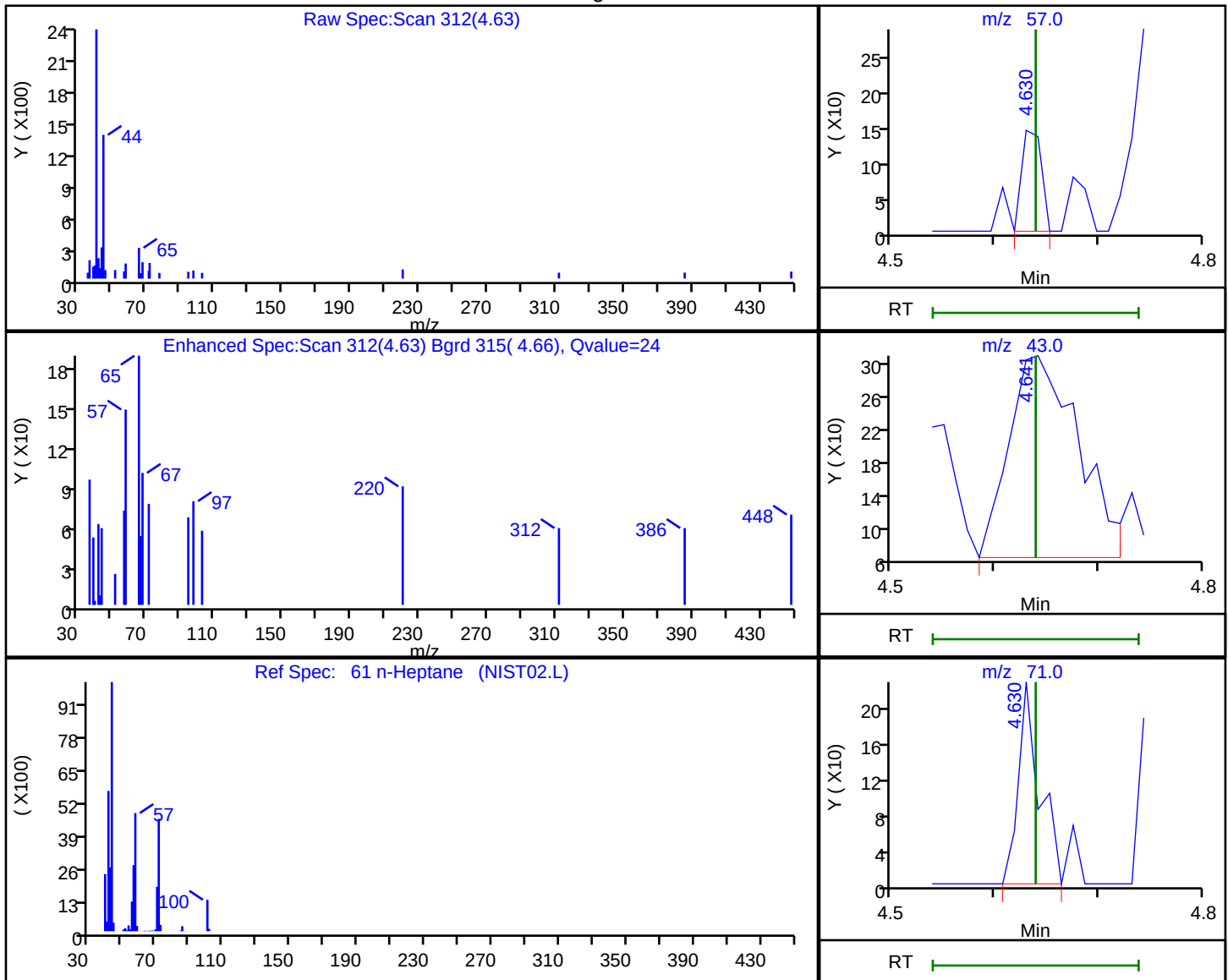
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 61 n-Heptane, CAS: 142-82-5

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 4.63 | 57.00 | 192      | 0.143953 |
| 4.64 | 43.00 | 1145     |          |
| 4.63 | 71.00 | 321      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

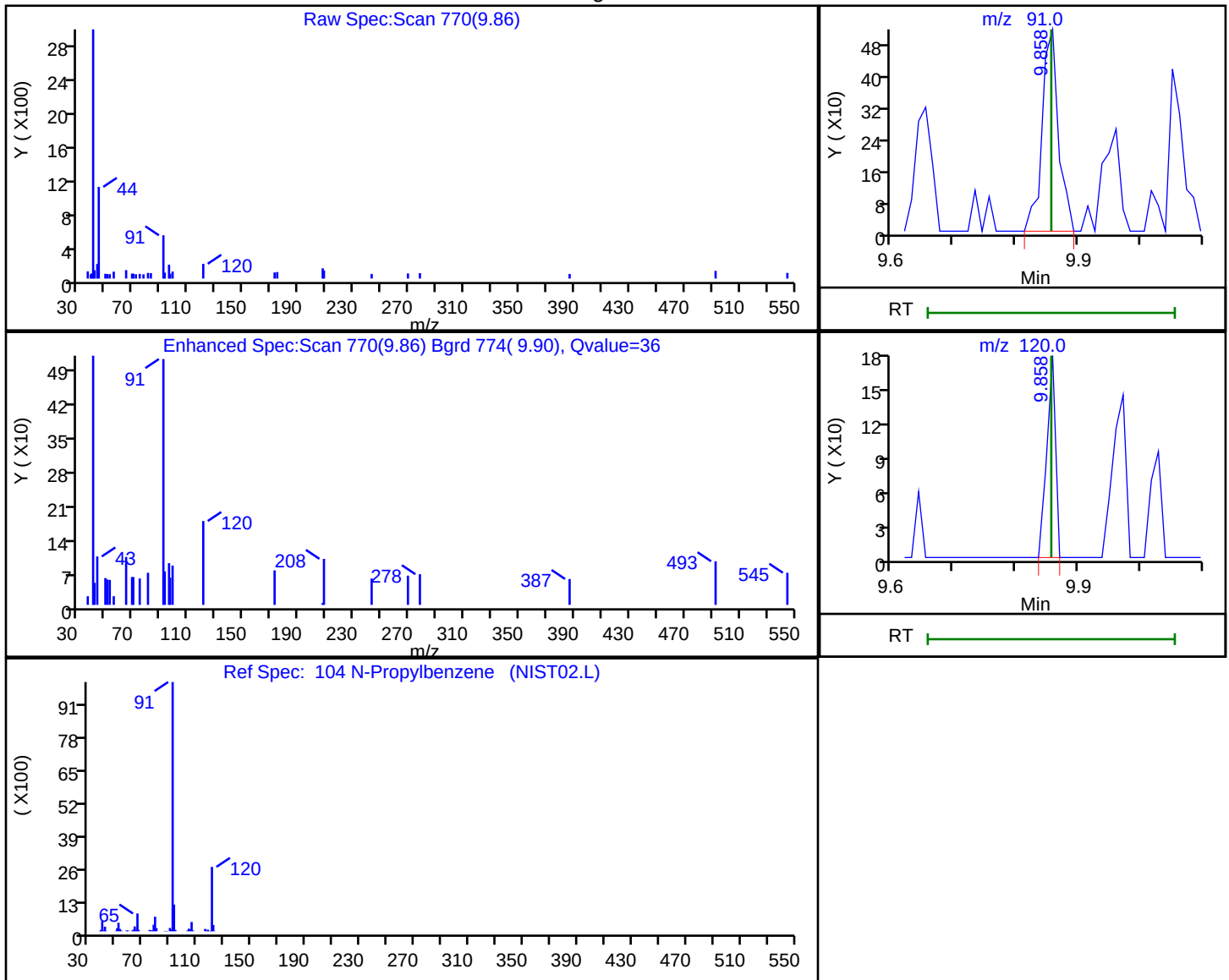
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 104 N-Propylbenzene, CAS: 103-65-1

## Processing Results



Reviewer: pakanatir, 20-Sep-2018 17:54:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

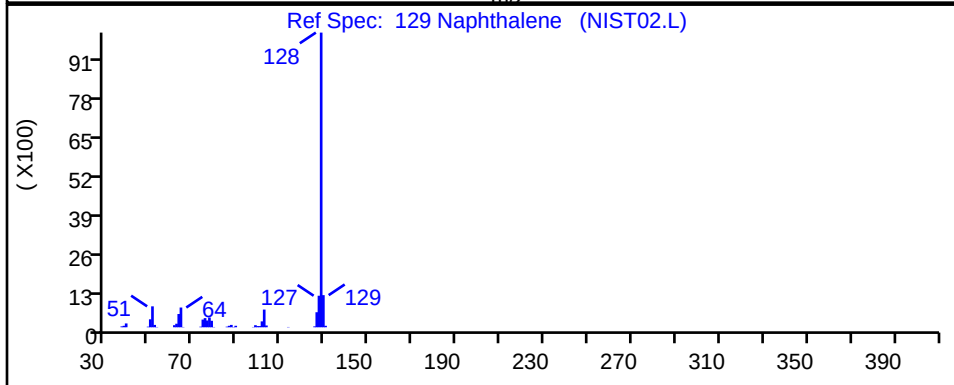
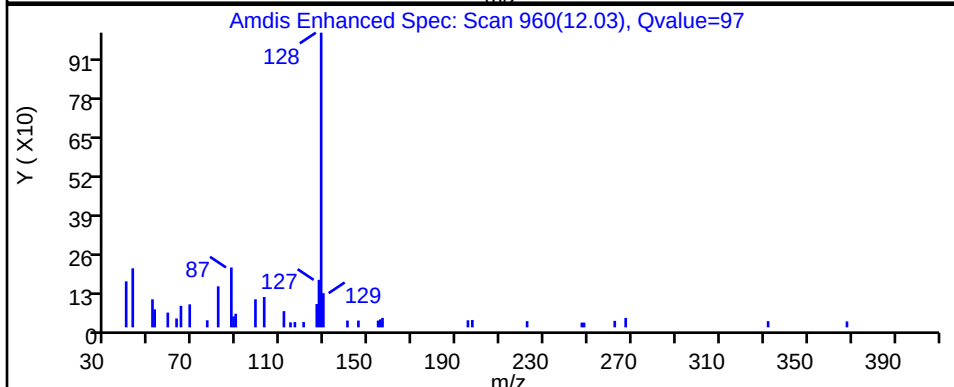
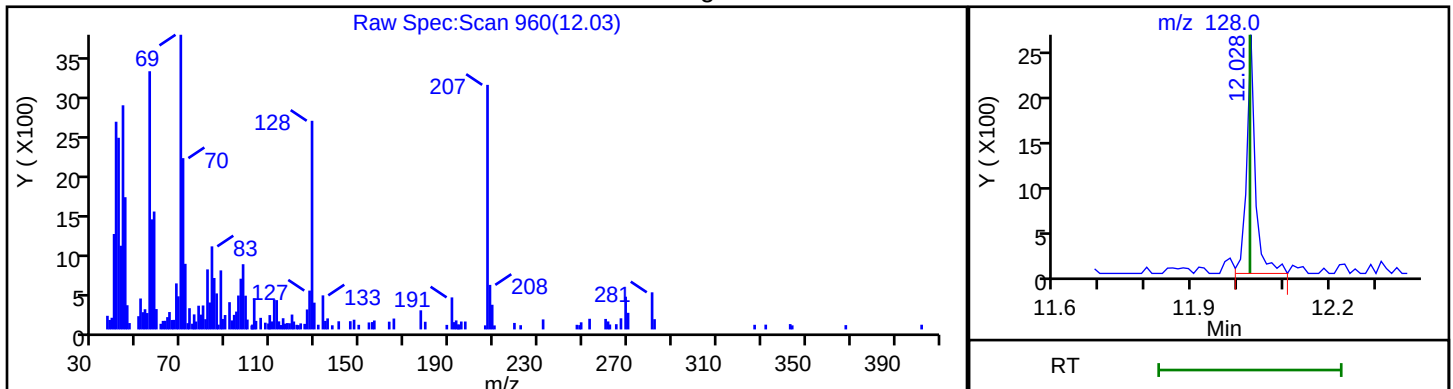
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 129 Naphthalene, CAS: 91-20-3

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 12.03 | 128.00 | 3502     | 0.342564 |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

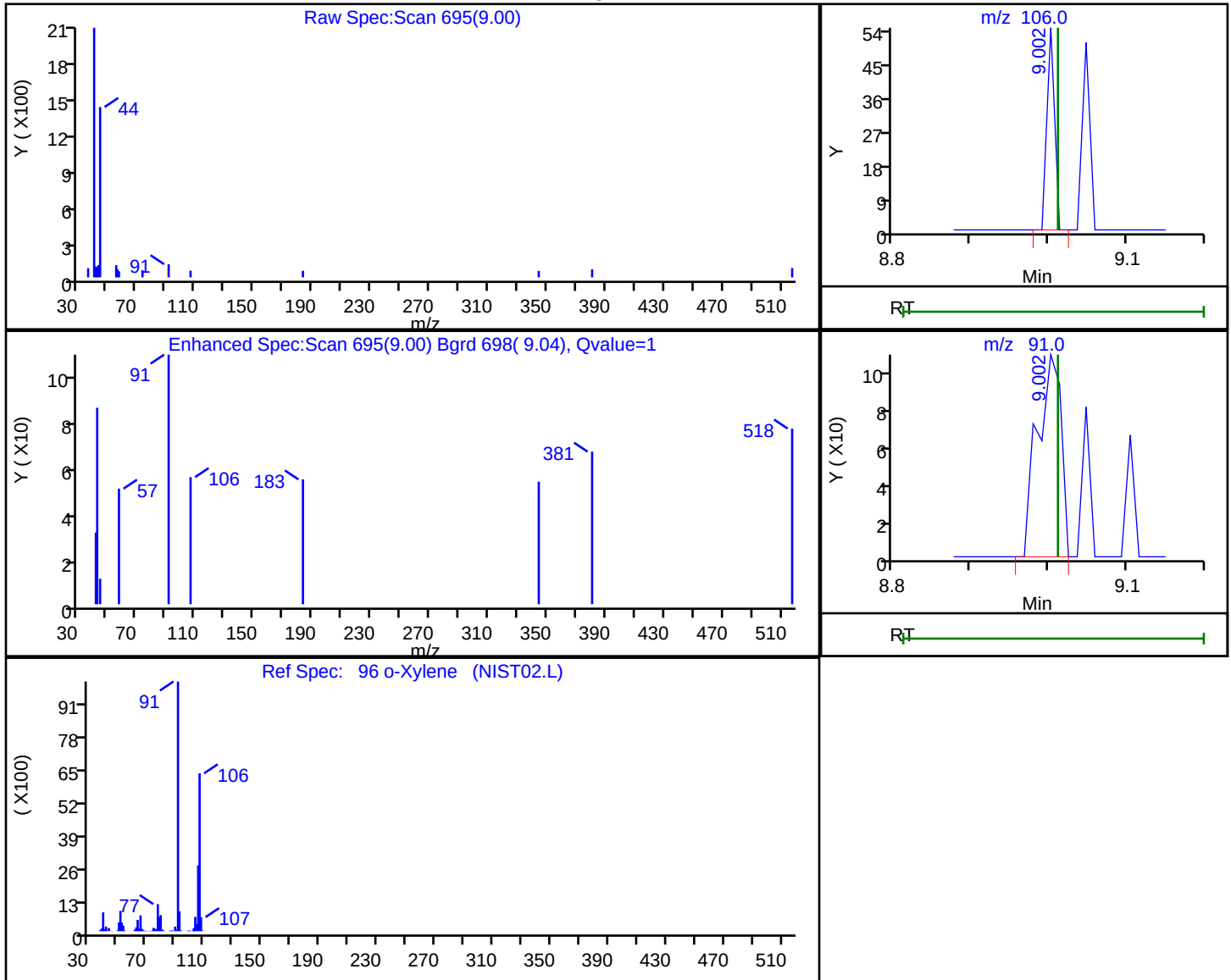
Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector: MS SCAN

## 96 o-Xylene, CAS: 95-47-6

## Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 9.00 | 106.00 | 38       | 0.008012 |
| 9.00 | 91.00  | 228      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

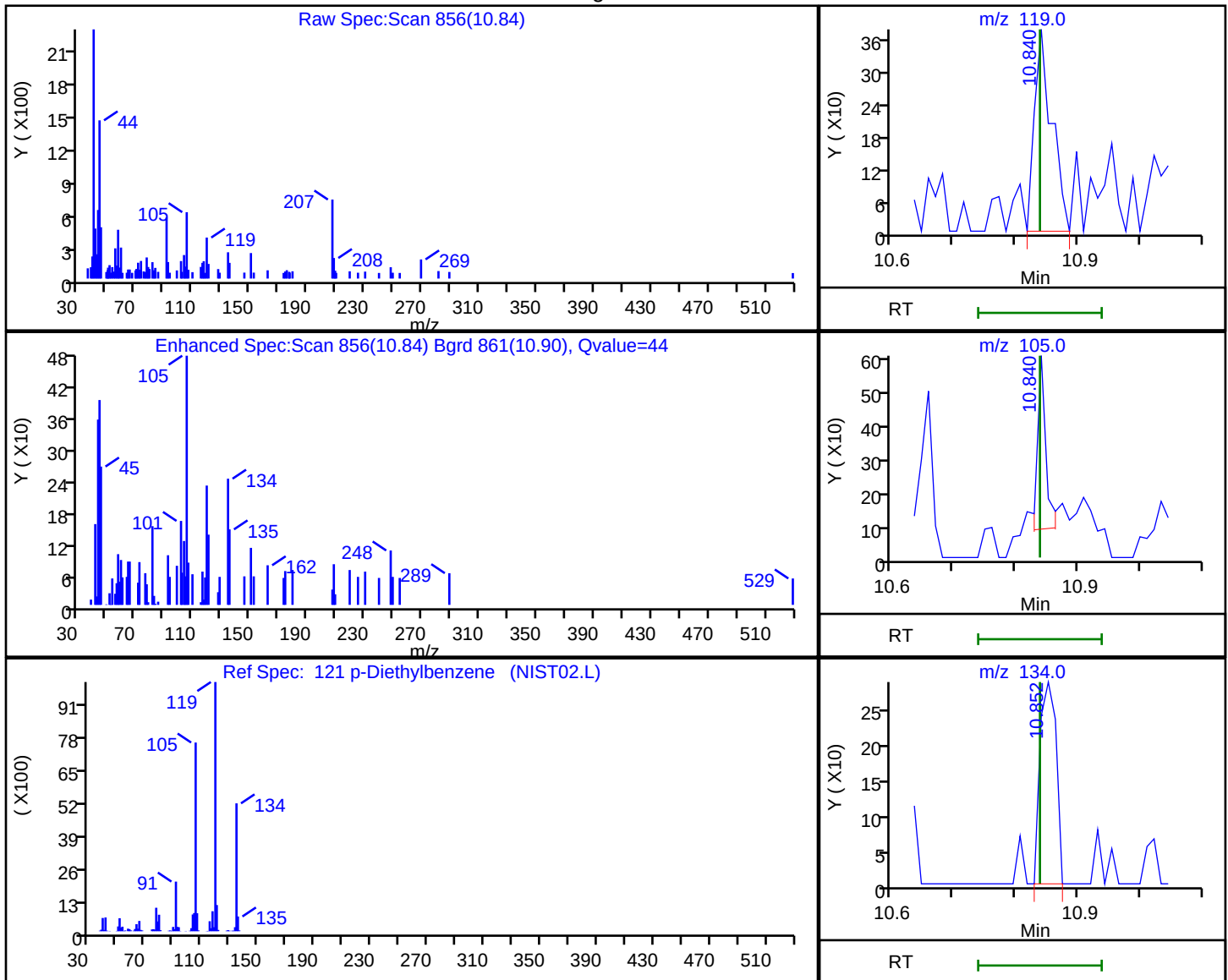
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 121 p-Diethylbenzene, CAS: 105-05-5

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.84 | 119.00 | 726      | 0.148400 |
| 10.84 | 105.00 | 483      |          |
| 10.85 | 134.00 | 521      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

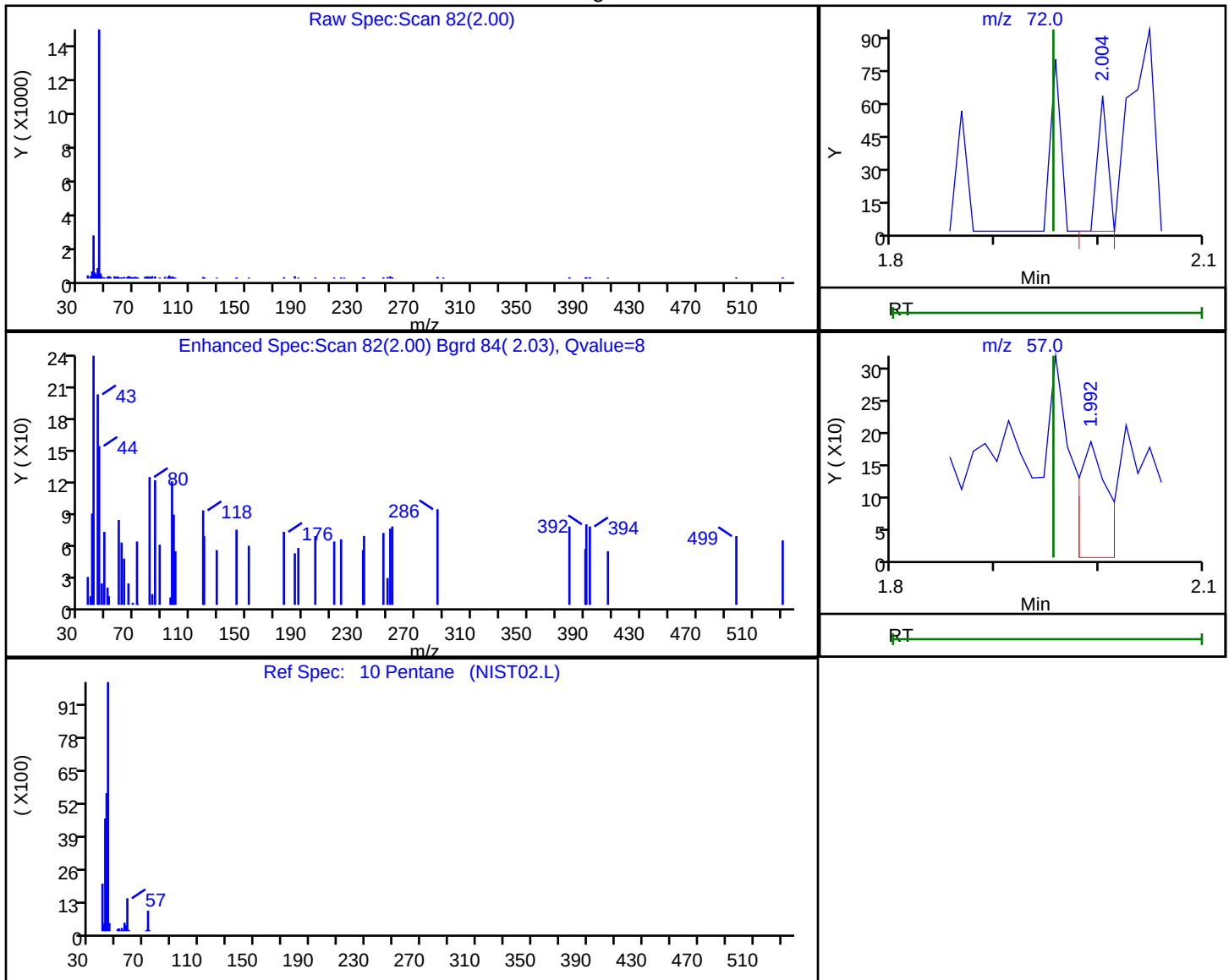
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 10 Pentane, CAS: 109-66-0

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.00 | 72.00 | 43       | 0.091142 |
| 1.99 | 57.00 | 353      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

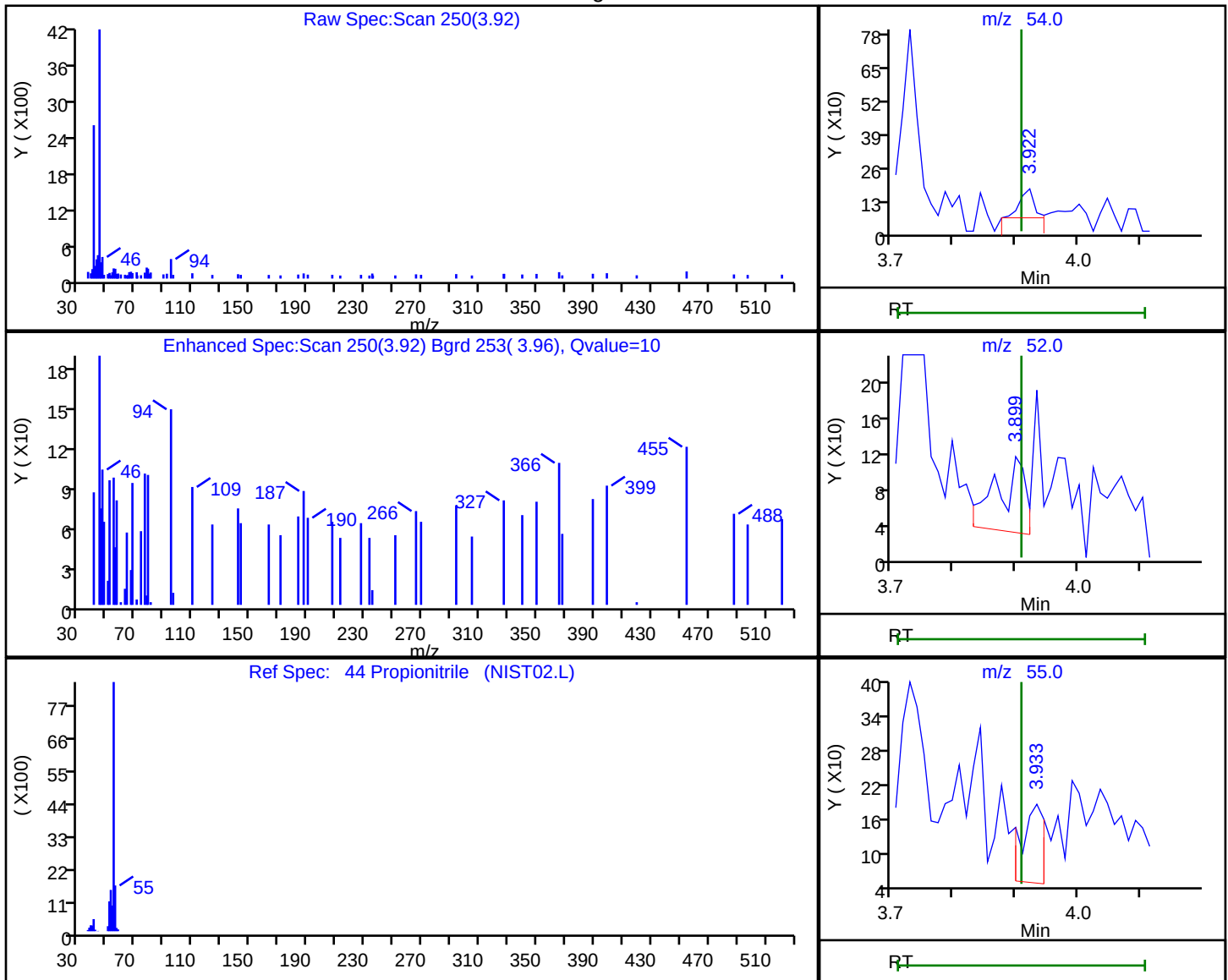
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 44 Propionitrile, CAS: 107-12-0

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.92 | 54.00 | 184      | 0.297259 |
| 3.90 | 52.00 | 272      |          |
| 3.93 | 55.00 | 348      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:28

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

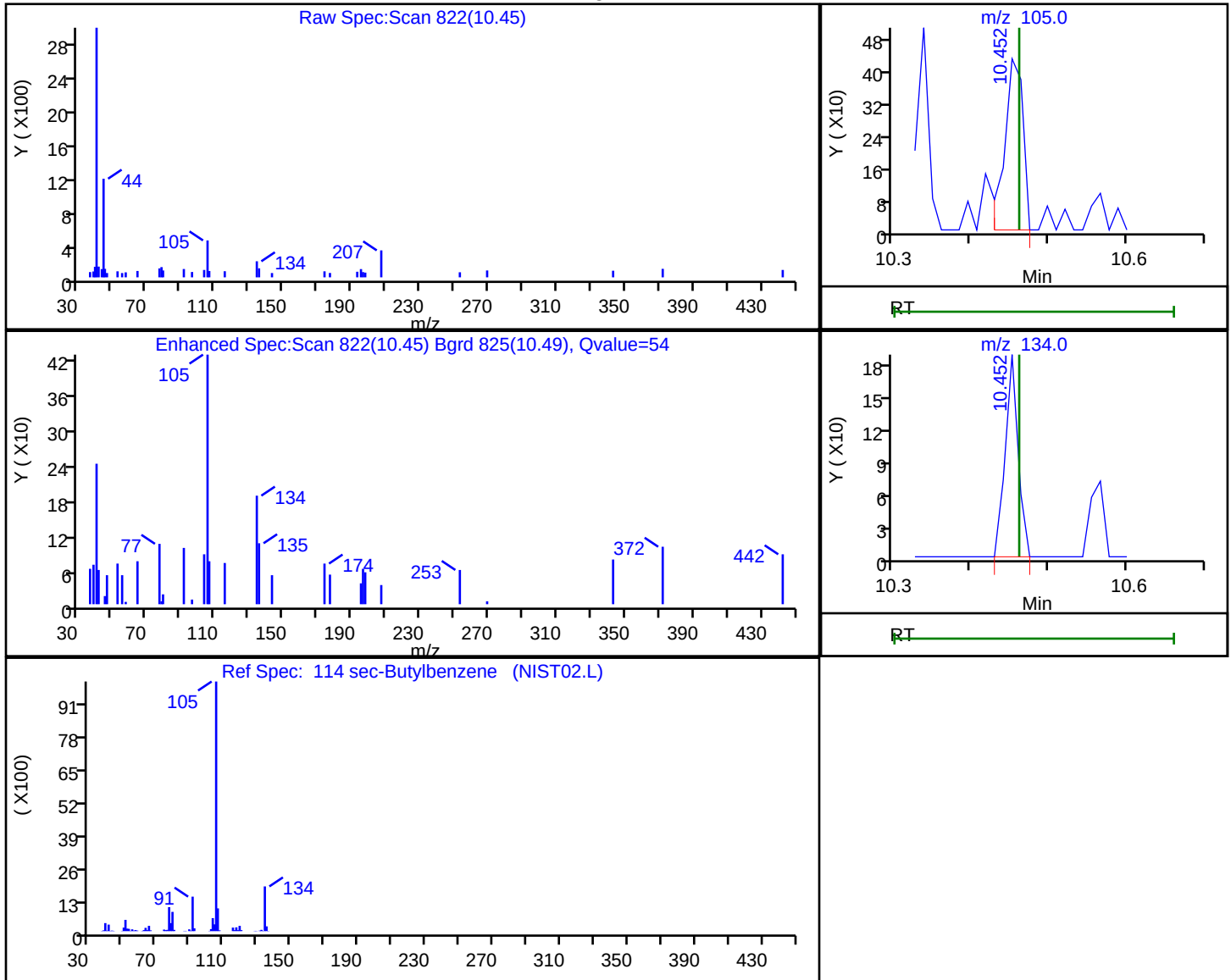
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 114 sec-Butylbenzene, CAS: 135-98-8

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.45 | 105.00 | 712      | 0.071113 |
| 10.45 | 134.00 | 216      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:32

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

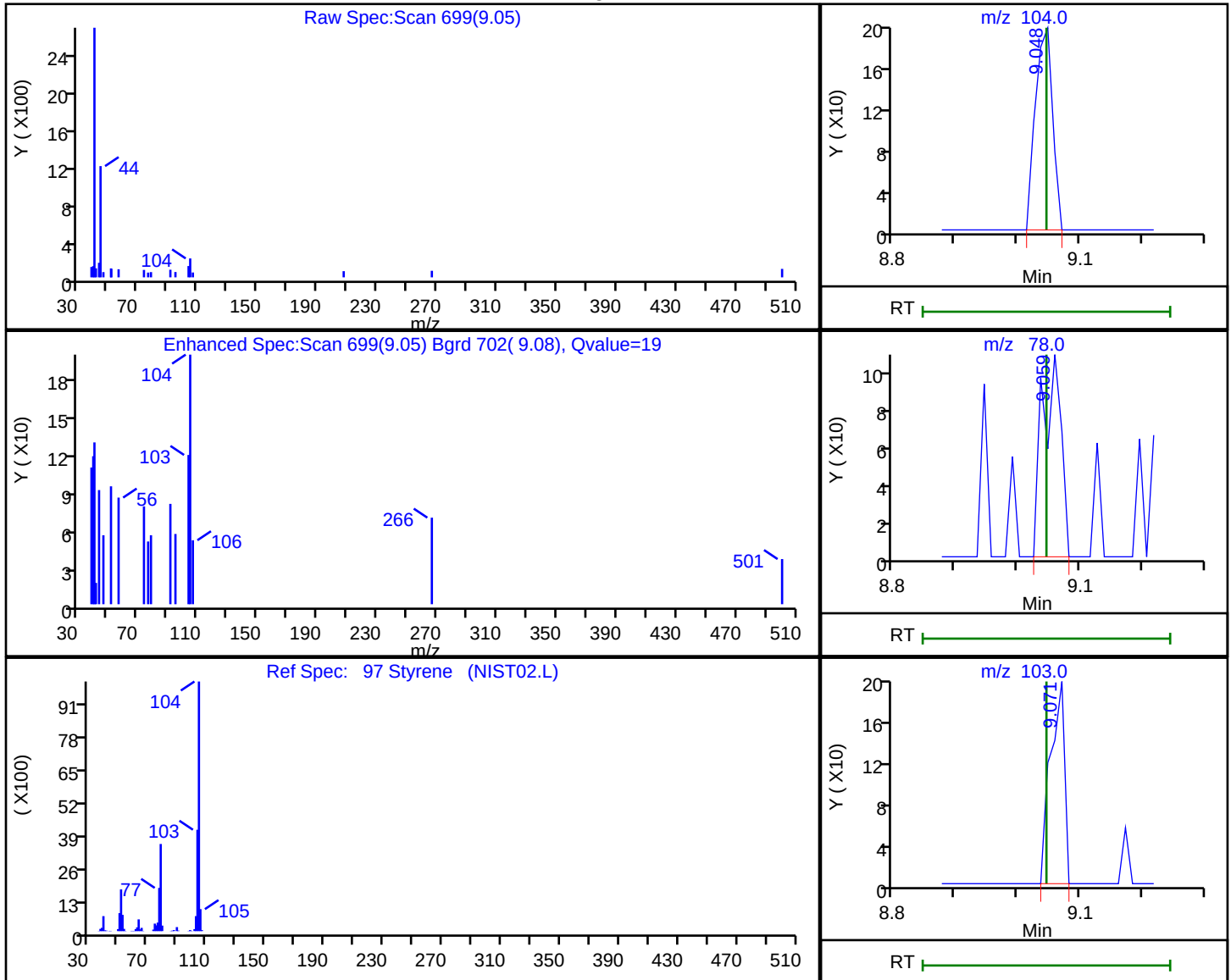
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 97 Styrene, CAS: 100-42-5

## Processing Results



| RT   | Mass   | Response | Amount   |
|------|--------|----------|----------|
| 9.05 | 104.00 | 385      | 0.036976 |
| 9.06 | 78.00  | 214      |          |
| 9.07 | 103.00 | 314      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:16

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

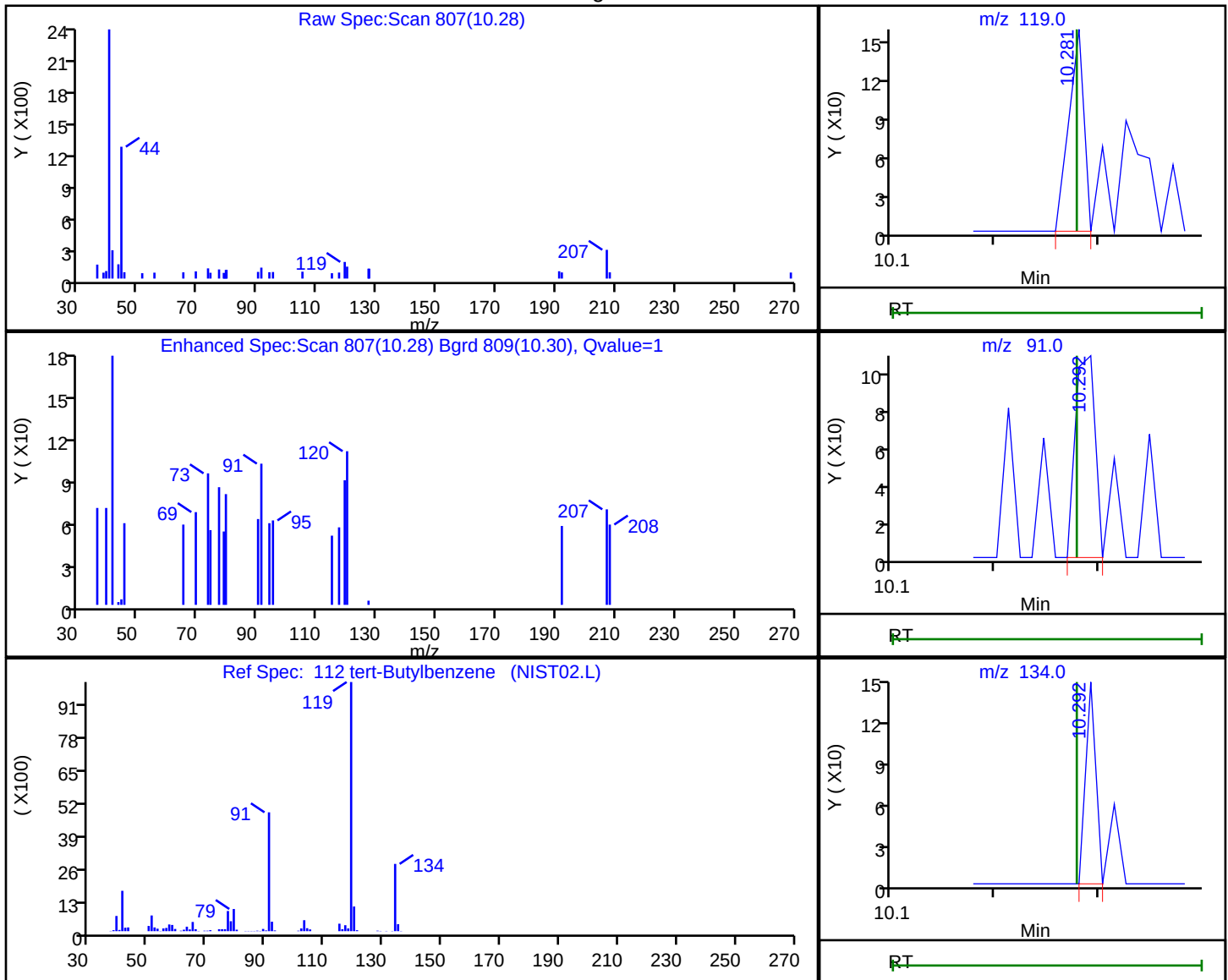
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 112 tert-Butylbenzene, CAS: 98-06-6

## Processing Results



| RT    | Mass   | Response | Amount   |
|-------|--------|----------|----------|
| 10.28 | 119.00 | 158      | 0.021973 |
| 10.29 | 91.00  | 144      |          |
| 10.29 | 134.00 | 97       |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

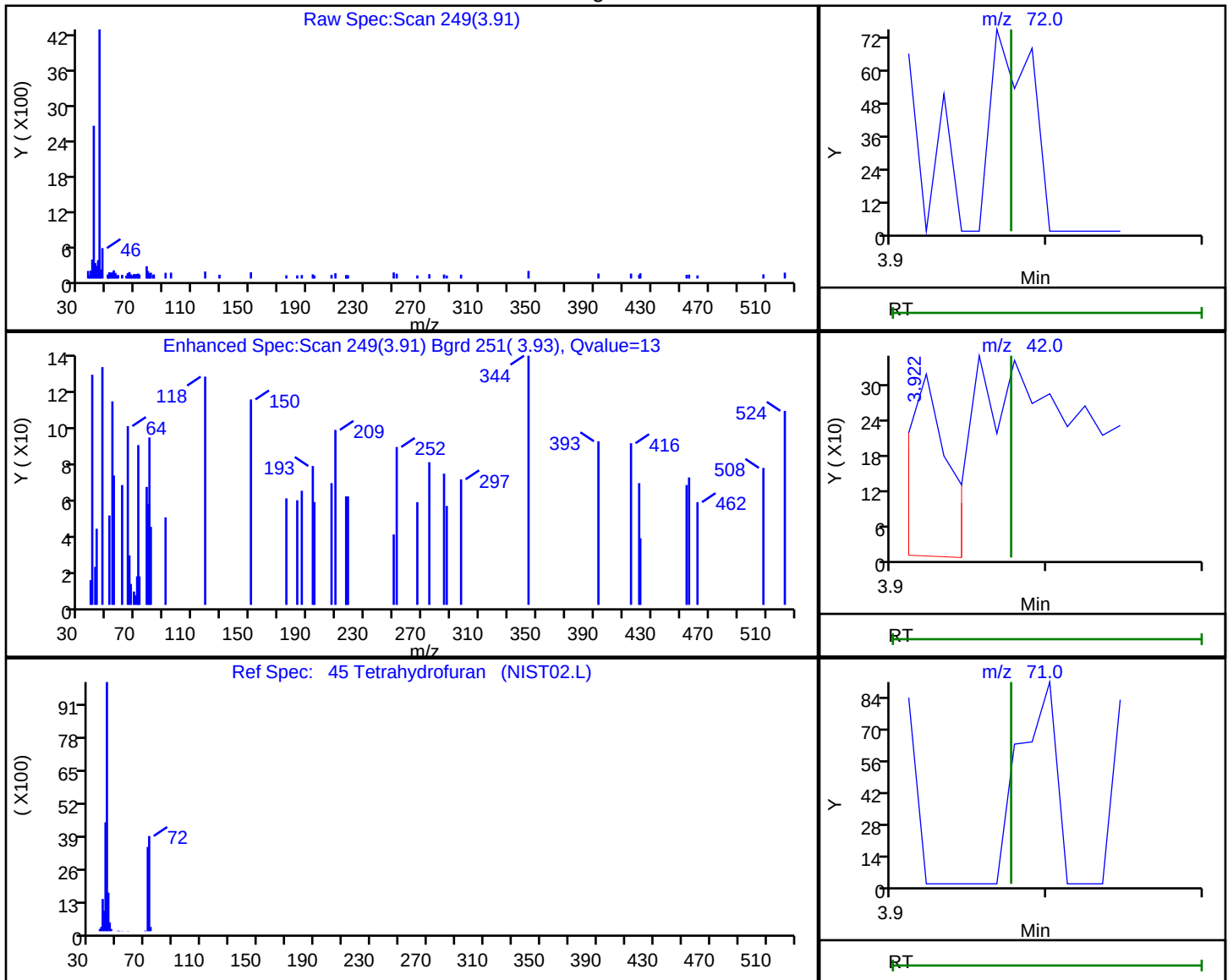
Column: Rtx-624 (0.25 mm)

Detector

MS SCAN

## 45 Tetrahydrofuran, CAS: 109-99-9

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.91 | 72.00 | 45       | 0.369539 |
| 3.92 | 42.00 | 567      |          |
| 3.91 | 71.00 | 58       |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

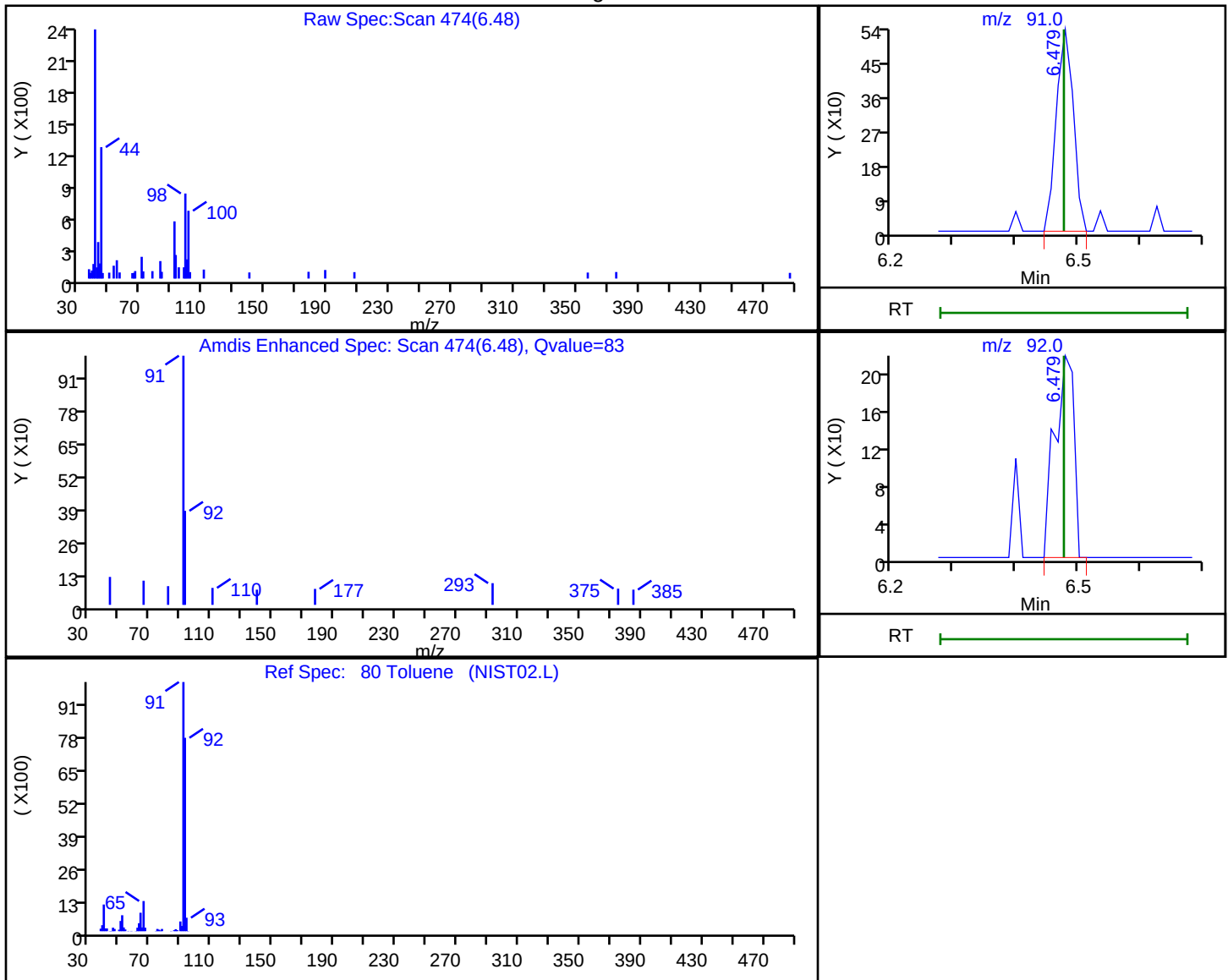
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 80 Toluene, CAS: 108-88-3

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 6.48 | 91.00 | 1023     | 0.078121 |
| 6.48 | 92.00 | 471      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

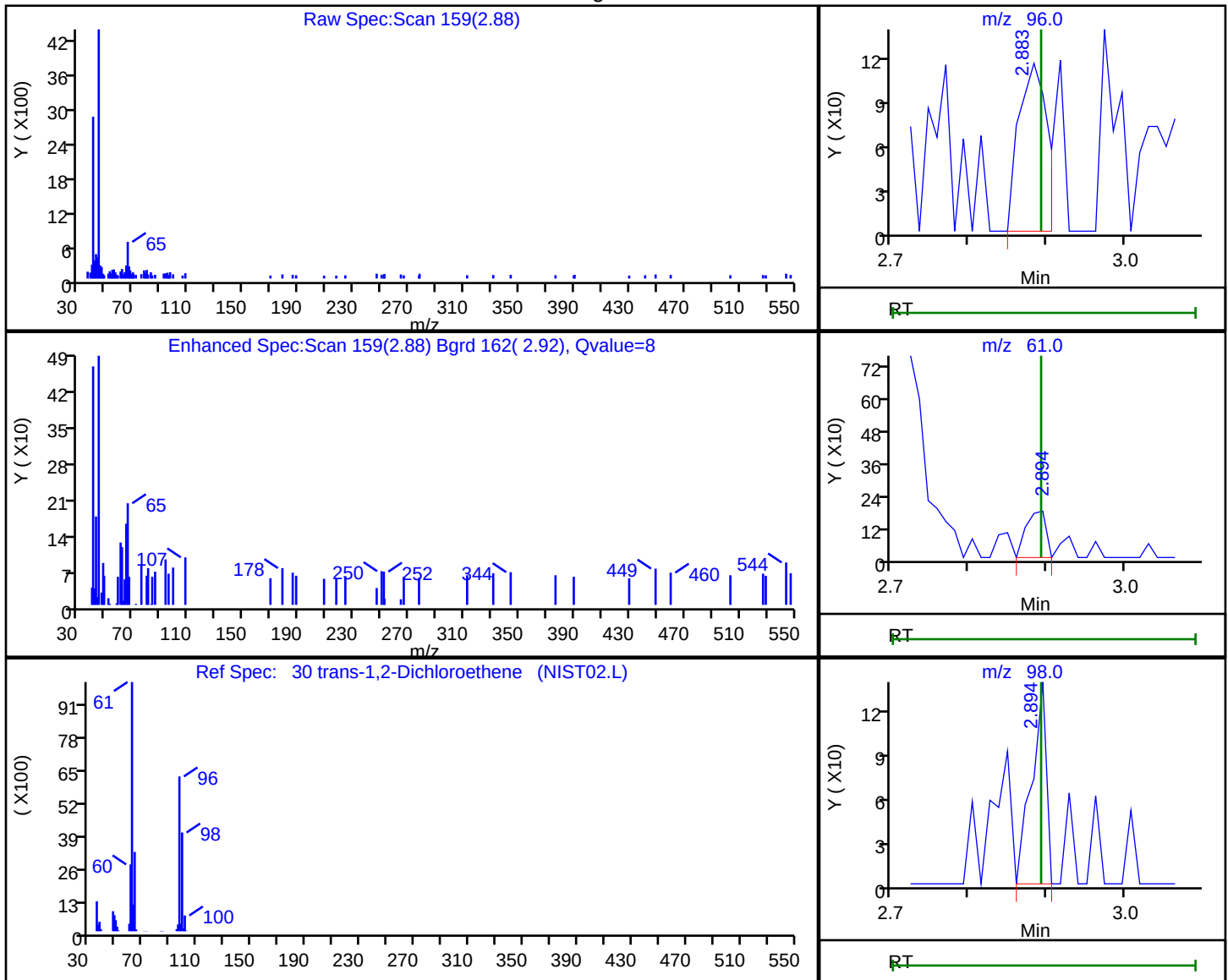
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 30 trans-1,2-Dichloroethene, CAS: 156-60-5

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.88 | 96.00 | 280      | 0.079091 |
| 2.89 | 61.00 | 310      |          |
| 2.89 | 98.00 | 184      |          |

Reviewer: pakanatir, 20-Sep-2018 17:52:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

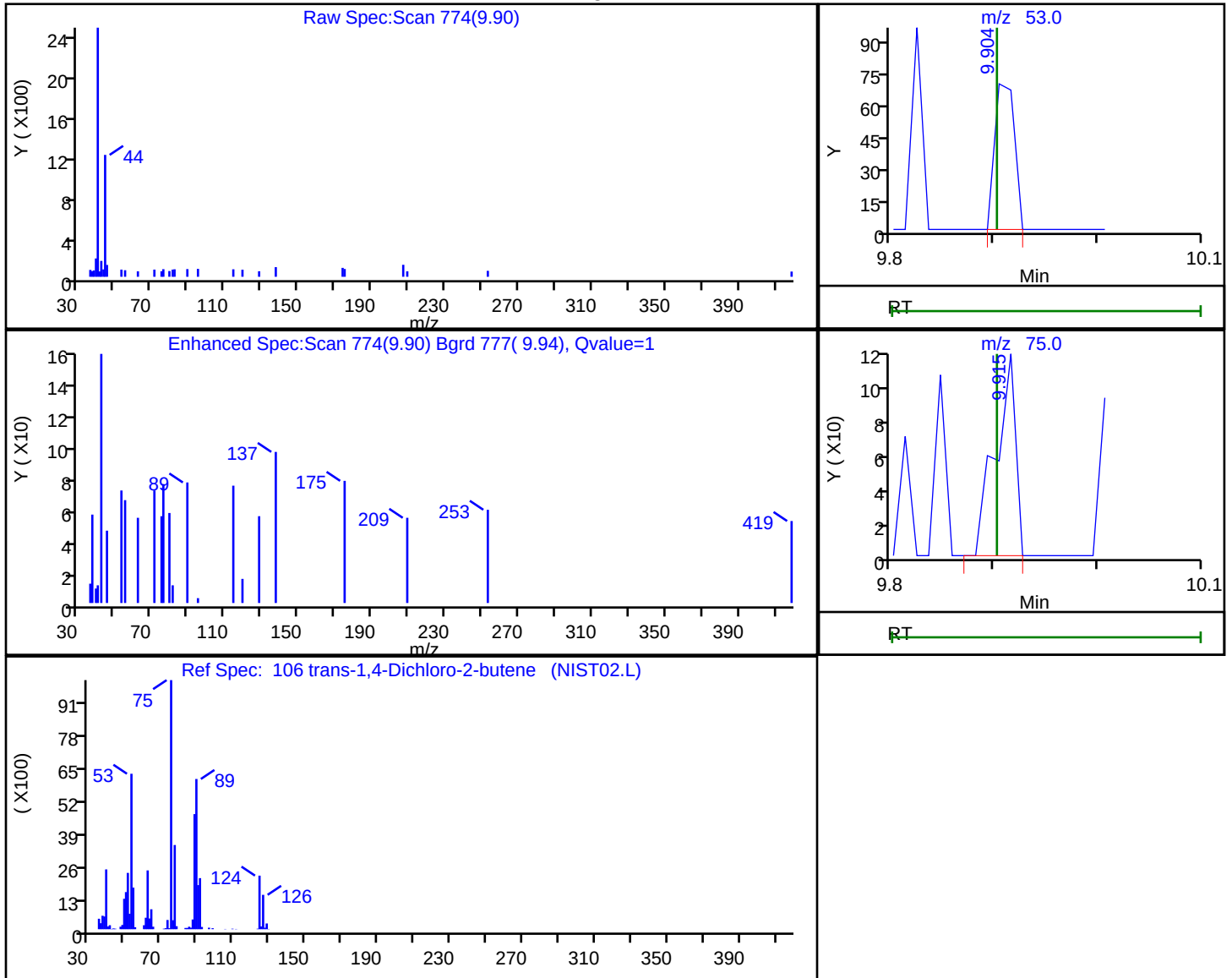
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 106 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 9.90 | 53.00 | 94       | 0.083816 |
| 9.92 | 75.00 | 155      |          |

Reviewer: pakanatir, 20-Sep-2018 17:54:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

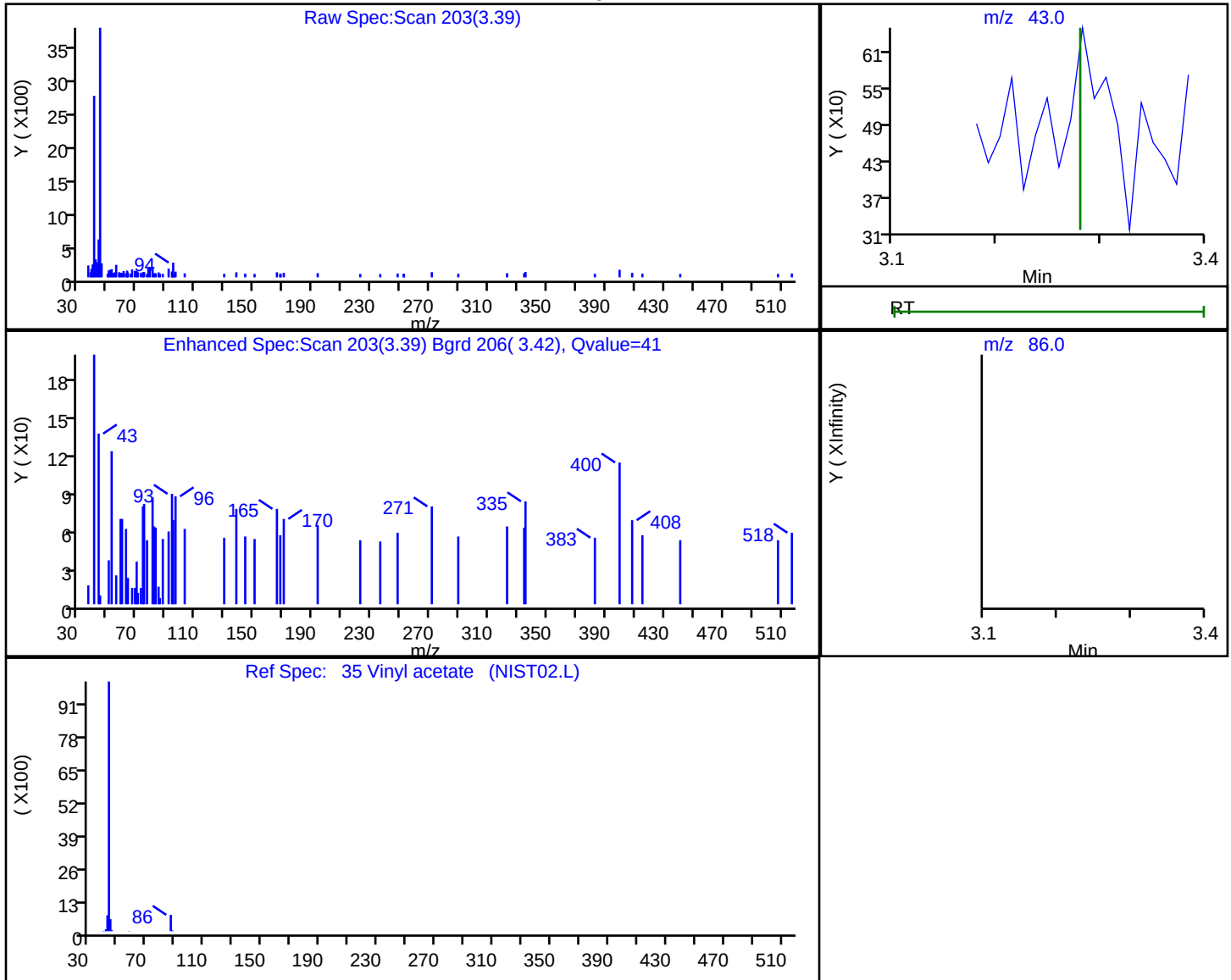
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 35 Vinyl acetate, CAS: 108-05-4

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 3.39 | 43.00 | 169      | 0.024676 |
| 3.41 | 86.00 | 109      |          |

Reviewer: pakanatir, 20-Sep-2018 17:53:08

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75066.D

Injection Date: 20-Sep-2018 12:25:30

Instrument ID: CVOAMS8

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

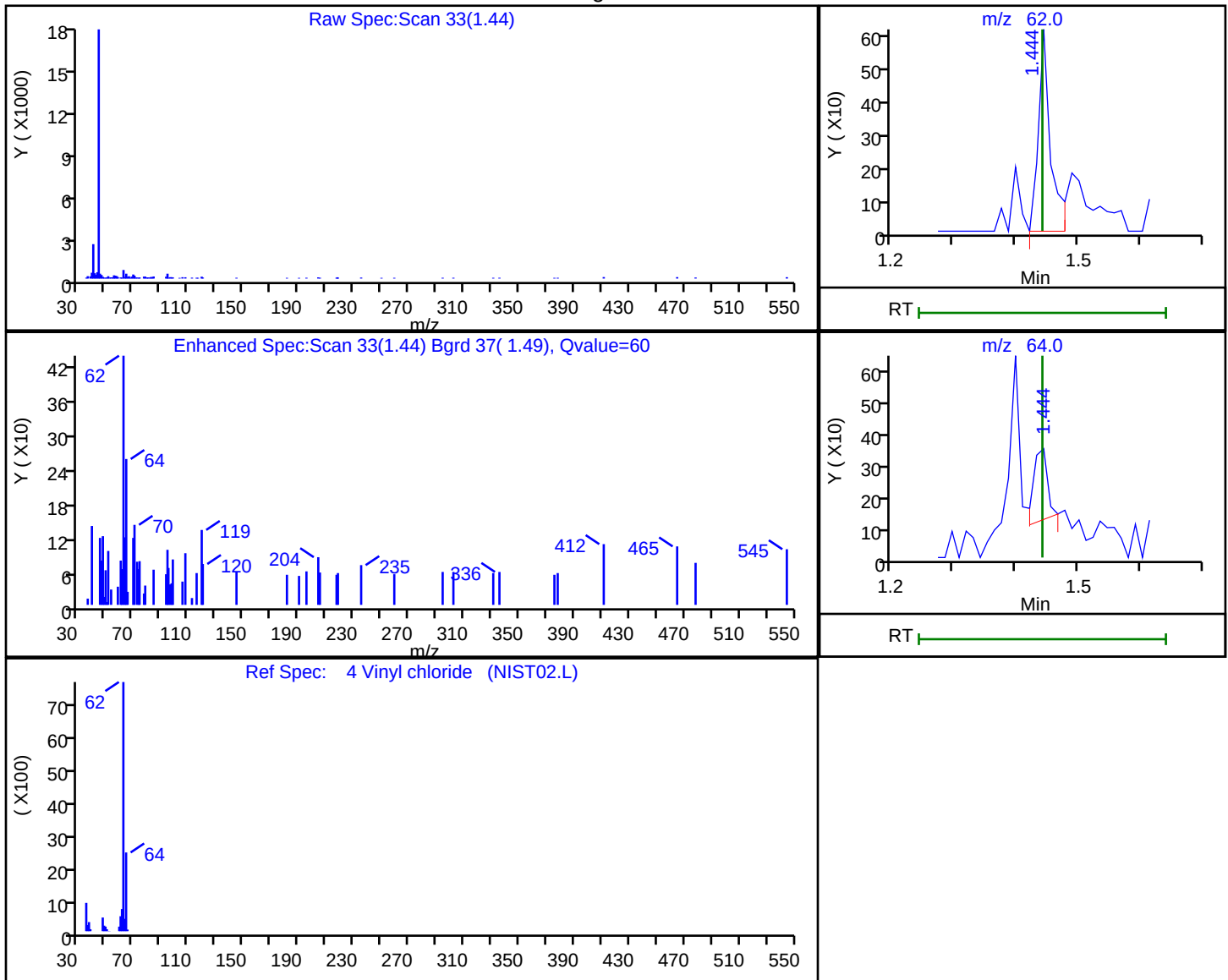
Column: Rtx-624 ( 0.25 mm)

Detector

MS SCAN

## 4 Vinyl chloride, CAS: 75-01-4

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 1.44 | 62.00 | 845      | 0.177995 |
| 1.44 | 64.00 | 362      |          |

Reviewer: pakanatir, 20-Sep-2018 17:51:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75068.D  
 Lims ID: STD5  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 20-Sep-2018 13:19:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: STD5  
 Misc. Info.: 460-0078971-005  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 21-Sep-2018 15:38:34 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK007

First Level Reviewer: pakanatir

Date: 20-Sep-2018 17:37:41

| Compound                      | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|-------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.192        | 1.191            | 0.001            | 92  | 3257     | 5.00            | 5.40              |       |
| 2 Dichlorodifluoromethane     | 85  | 1.215        | 1.214            | 0.001            | 99  | 23307    | 5.00            | 5.11              |       |
| 3 Chloromethane               | 50  | 1.409        | 1.408            | 0.001            | 99  | 27832    | 5.00            | 5.18              |       |
| 4 Vinyl chloride              | 62  | 1.443        | 1.442            | 0.001            | 97  | 26327    | 5.00            | 5.26              |       |
| 5 Butadiene                   | 54  | 1.455        | 1.456            | -0.001           | 98  | 22037    | 5.00            | 5.22              |       |
| 6 Bromomethane                | 94  | 1.695        | 1.693            | 0.002            | 96  | 13562    | 5.00            | 5.05              |       |
| 7 Chloroethane                | 64  | 1.763        | 1.762            | 0.001            | 98  | 12449    | 5.00            | 5.05              |       |
| 8 Dichlorofluoromethane       | 67  | 1.923        | 1.922            | 0.001            | 99  | 34492    | 5.00            | 5.02              |       |
| 9 Trichlorofluoromethane      | 101 | 1.911        | 1.922            | -0.011           | 99  | 27403    | 5.00            | 5.54              |       |
| 10 Pentane                    | 72  | 1.957        | 1.956            | 0.001            | 96  | 4463     | 10.0            | 9.49              |       |
| 11 Ethanol                    | 46  | 2.106        | 2.116            | -0.010           | 97  | 3856     | 200.0           | 164.8             | a     |
| 12 Ethyl ether                | 59  | 2.140        | 2.138            | 0.002            | 93  | 14829    | 5.00            | 5.28              |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.140        | 2.150            | -0.010           | 96  | 14936    | 5.00            | 4.87              |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.174        | 2.173            | 0.001            | 97  | 14176    | 5.00            | 5.15              |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.277        | 2.275            | 0.002            | 96  | 15780    | 5.00            | 5.06              |       |
| 16 Acrolein                   | 56  | 2.288        | 2.287            | 0.001            | 95  | 14619    | 20.0            | 20.8              |       |
| 17 1,1-Dichloroethene         | 96  | 2.311        | 2.310            | 0.001            | 98  | 15457    | 5.00            | 5.05              |       |
| 18 Acetone                    | 43  | 2.402        | 2.401            | 0.001            | 86  | 30891    | 25.0            | 26.7              |       |
| 19 Iodomethane                | 142 | 2.448        | 2.447            | 0.001            | 98  | 20000    | 5.00            | 4.08              |       |
| 20 Carbon disulfide           | 76  | 2.482        | 2.481            | 0.001            | 99  | 62978    | 5.00            | 5.16              |       |
| 21 Isopropyl alcohol          | 45  | 2.494        | 2.492            | 0.002            | 98  | 13016    | 50.0            | 49.0              |       |
| 22 3-Chloro-1-propene         | 76  | 2.596        | 2.607            | -0.011           | 91  | 10639    | 5.00            | 5.21              |       |
| 23 Cyclopentene               | 67  | 2.619        | 2.618            | 0.001            | 91  | 40635    | 5.00            | 4.82              |       |
| 24 Methyl acetate             | 43  | 2.619        | 2.618            | 0.001            | 99  | 33460    | 10.0            | 10.3              | a     |
| 25 Acetonitrile               | 41  | 2.676        | 2.675            | 0.001            | 100 | 30363    | 50.0            | 51.3              | a     |
| 26 Methylene Chloride         | 84  | 2.722        | 2.721            | 0.001            | 93  | 21263    | 5.00            | 5.18              |       |
| * 27 TBA-d9 (IS)              | 65  | 2.733        | 2.723            | 0.010            | 0   | 326663   | 1000.0          | 1000.0            |       |
| 28 2-Methyl-2-propanol        | 59  | 2.791        | 2.801            | -0.010           | 97  | 18411    | 50.0            | 47.8              |       |
| 29 Methyl tert-butyl ether    | 73  | 2.870        | 2.869            | 0.001            | 98  | 44777    | 5.00            | 4.90              |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.893        | 2.892            | 0.001            | 96  | 18626    | 5.00            | 5.30              |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 31 Acrylonitrile                 | 53  | 2.973     | 2.974         | -0.001        | 95  | 83121    | 50.0         | 50.6           |       |
| 32 Hexane                        | 57  | 3.030     | 3.029         | 0.001         | 94  | 20186    | 5.00         | 5.49           |       |
| 33 Isopropyl ether               | 45  | 3.236     | 3.234         | 0.002         | 98  | 62041    | 5.00         | 5.04           |       |
| 34 1,1-Dichloroethane            | 63  | 3.259     | 3.257         | 0.002         | 100 | 35104    | 5.00         | 5.19           |       |
| 35 Vinyl acetate                 | 43  | 3.281     | 3.280         | 0.001         | 100 | 74610    | 10.0         | 10.1           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.304     | 3.303         | 0.001         | 90  | 15455    | 5.00         | 4.89           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.533     | 3.531         | 0.002         | 88  | 50673    | 5.00         | 4.91           |       |
| * 39 2-Butanone-d5               | 46  | 3.727     | 3.728         | -0.001        | 0   | 446225   | 250.0        | 250.0          |       |
| 38 2,2-Dichloropropane           | 79  | 3.727     | 3.725         | 0.002         | 96  | 8788     | 5.00         | 5.01           |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.750     | 3.760         | -0.010        | 98  | 20166    | 5.00         | 4.99           |       |
| 42 Ethyl acetate                 | 70  | 3.784     | 3.782         | 0.002         | 94  | 4502     | 10.0         | 9.99           |       |
| 41 2-Butanone (MEK)              | 72  | 3.784     | 3.782         | 0.002         | 96  | 11436    | 25.0         | 24.8           |       |
| 43 Methyl acrylate               | 55  | 3.830     | 3.828         | 0.002         | 99  | 18141    | 5.00         | 4.82           |       |
| 44 Propionitrile                 | 54  | 3.909     | 3.908         | 0.001         | 98  | 31783    | 50.0         | 49.0           |       |
| 46 Chlorobromomethane            | 128 | 3.978     | 3.977         | 0.001         | 96  | 9721     | 5.00         | 4.92           |       |
| 45 Tetrahydrofuran               | 72  | 3.978     | 3.977         | 0.001         | 94  | 4216     | 10.0         | 8.96           |       |
| 47 Methacrylonitrile             | 67  | 4.001     | 3.999         | 0.002         | 95  | 77095    | 50.0         | 48.1           |       |
| 48 Chloroform                    | 83  | 4.024     | 4.022         | 0.002         | 98  | 31192    | 5.00         | 5.04           |       |
| 49 Cyclohexane                   | 84  | 4.126     | 4.125         | 0.001         | 95  | 19399    | 5.00         | 4.77           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.149     | 4.148         | 0.001         | 97  | 26188    | 5.00         | 5.30           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.172     | 4.173         | -0.001        | 96  | 163791   | 50.0         | 51.0           |       |
| 52 Carbon tetrachloride          | 117 | 4.263     | 4.262         | 0.001         | 97  | 22196    | 5.00         | 5.13           |       |
| 53 1,1-Dichloropropene           | 75  | 4.298     | 4.296         | 0.002         | 97  | 21606    | 5.00         | 4.88           |       |
| 54 Isooctane                     | 57  | 4.446     | 4.445         | 0.001         | 90  | 28710    | 5.00         | 4.74           |       |
| 58 Isobutyl alcohol              | 43  | 4.457     | 4.456         | 0.001         | 95  | 22402    | 125.0        | 108.9          | a     |
| 55 Benzene                       | 78  | 4.492     | 4.490         | 0.002         | 94  | 68525    | 5.00         | 5.21           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.515     | 4.515         | -0.001        | 0   | 179780   | 50.0         | 51.2           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.560     | 4.559         | 0.001         | 73  | 12296    | 5.00         | 4.70           |       |
| 59 Isopropyl acetate             | 43  | 4.560     | 4.559         | 0.001         | 94  | 48948    | 5.00         | 4.78           |       |
| 60 1,2-Dichloroethane            | 62  | 4.583     | 4.582         | 0.001         | 95  | 24078    | 5.00         | 5.08           |       |
| 61 n-Heptane                     | 57  | 4.629     | 4.639         | -0.010        | 94  | 6605     | 5.00         | 4.73           |       |
| * 62 Fluorobenzene               | 96  | 4.766     | 4.767         | 0.000         | 98  | 596424   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.108     | 5.107         | 0.001         | 52  | 8921     | 125.0        | 96.7           |       |
| 64 Trichloroethene               | 95  | 5.108     | 5.118         | -0.010        | 97  | 16657    | 5.00         | 4.75           |       |
| 65 Methylcyclohexane             | 83  | 5.222     | 5.221         | 0.001         | 90  | 16608    | 5.00         | 4.35           |       |
| 66 Ethyl acrylate                | 55  | 5.245     | 5.244         | 0.001         | 60  | 23005    | 5.00         | 4.11           | Ma    |
| 67 1,2-Dichloropropane           | 63  | 5.394     | 5.392         | 0.002         | 92  | 19139    | 5.00         | 4.99           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.474     | 5.463         | 0.011         | 0   | 34104    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.485     | 5.484         | 0.001         | 94  | 7561     | 10.0         | 8.78           |       |
| 70 1,4-Dioxane                   | 88  | 5.519     | 5.529         | -0.010        | 42  | 3697     | 100.0        | 87.1           |       |
| 71 Dibromomethane                | 93  | 5.531     | 5.529         | 0.002         | 96  | 12646    | 5.00         | 4.96           |       |
| 72 n-Propyl acetate              | 43  | 5.542     | 5.541         | 0.001         | 99  | 25672    | 5.00         | 4.40           |       |
| 73 Dichlorobromomethane          | 83  | 5.679     | 5.678         | 0.001         | 99  | 24152    | 5.00         | 4.90           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.022     | 6.020         | 0.002         | 66  | 8269     | 5.00         | 3.19           |       |
| 74 2-Nitropropane                | 41  | 6.010     | 6.020         | -0.010        | 87  | 9926     | 10.0         | 9.61           |       |
| 76 Epichlorohydrin               | 57  | 6.124     | 6.125         | -0.001        | 99  | 35694    | 100.0        | 97.1           |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.170     | 6.169         | 0.001         | 94  | 25633    | 5.00         | 4.88           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.341     | 6.340         | 0.001         | 97  | 78938    | 25.0         | 22.4           |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.398     | 6.399         | -0.001        | 99  | 556593   | 50.0         | 52.8           |       |
| 80 Toluene                       | 91  | 6.478     | 6.477         | 0.001         | 93  | 66337    | 5.00         | 4.94           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.844     | 6.842         | 0.002         | 98  | 22873    | 5.00         | 4.79           |       |
| 82 Ethyl methacrylate            | 69  | 6.878     | 6.876         | 0.002         | 91  | 14719    | 5.00         | 3.02           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 83 1,1,2-Trichloroethane        | 83  | 7.049     | 7.059         | -0.010        | 95 | 15262    | 5.00         | 5.18           |       |
| 84 Tetrachloroethene            | 166 | 7.083     | 7.082         | 0.001         | 94 | 16391    | 5.00         | 4.86           |       |
| 85 1,3-Dichloropropane          | 76  | 7.255     | 7.265         | -0.010        | 95 | 25263    | 5.00         | 5.01           |       |
| 86 2-Hexanone                   | 58  | 7.334     | 7.333         | 0.001         | 99 | 24923    | 25.0         | 21.3           |       |
| 87 n-Butyl acetate              | 43  | 7.449     | 7.447         | 0.002         | 97 | 24280    | 5.00         | 4.64           |       |
| 88 Chlorodibromomethane         | 129 | 7.483     | 7.493         | -0.010        | 97 | 19559    | 5.00         | 5.27           |       |
| 89 Ethylene Dibromide           | 107 | 7.631     | 7.630         | 0.001         | 99 | 17053    | 5.00         | 5.07           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.179     | 8.180         | -0.001        | 87 | 441671   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.214     | 8.212         | 0.002         | 96 | 46357    | 5.00         | 5.16           |       |
| 92 Ethylbenzene                 | 106 | 8.316     | 8.315         | 0.001         | 99 | 19698    | 5.00         | 4.58           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.339     | 8.338         | 0.001         | 94 | 17759    | 5.00         | 5.39           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.476     | 8.475         | 0.001         | 0  | 21164    | 5.00         | 4.38           |       |
| 95 n-Butyl acrylate             | 73  | 9.024     | 9.011         | 0.013         | 95 | 8002     | 5.00         | 2.77           |       |
| 96 o-Xylene                     | 106 | 9.013     | 9.011         | 0.002         | 94 | 20389    | 5.00         | 4.29           |       |
| 97 Styrene                      | 104 | 9.047     | 9.046         | 0.001         | 95 | 36872    | 5.00         | 4.29           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.298     | 9.297         | 0.001         | 90 | 21190    | 5.00         | 3.09           |       |
| 99 Bromoform                    | 173 | 9.298     | 9.297         | 0.001         | 96 | 13227    | 5.00         | 4.98           |       |
| 100 Isopropylbenzene            | 105 | 9.435     | 9.434         | 0.001         | 96 | 49193    | 5.00         | 4.30           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.652     | 9.653         | -0.001        | 95 | 171197   | 50.0         | 51.4           |       |
| 102 Bromobenzene                | 156 | 9.778     | 9.776         | 0.002         | 97 | 19387    | 5.00         | 4.75           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.846     | 9.845         | 0.001         | 99 | 24774    | 5.00         | 5.03           |       |
| 104 N-Propylbenzene             | 91  | 9.858     | 9.856         | 0.002         | 99 | 63019    | 5.00         | 4.35           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.880     | 9.879         | 0.001         | 98 | 5482     | 5.00         | 4.58           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.903     | 9.902         | 0.001         | 74 | 5905     | 5.00         | 4.60           | a     |
| 107 2-Chlorotoluene             | 91  | 9.949     | 9.948         | 0.001         | 98 | 50644    | 5.00         | 4.64           |       |
| 108 4-Ethyltoluene              | 105 | 9.960     | 9.959         | 0.001         | 98 | 55515    | 5.00         | 4.50           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.029    | 10.027        | 0.002         | 92 | 46199    | 5.00         | 4.58           | a     |
| 110 4-Chlorotoluene             | 91  | 10.052    | 10.062        | -0.010        | 97 | 49870    | 5.00         | 4.79           |       |
| 111 Butyl Methacrylate          | 87  | 10.132    | 10.130        | 0.002         | 92 | 15545    | 5.00         | 3.19           |       |
| 112 tert-Butylbenzene           | 119 | 10.280    | 10.279        | 0.001         | 93 | 34558    | 5.00         | 4.37           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.337    | 10.336        | 0.001         | 97 | 47734    | 5.00         | 4.52           |       |
| 114 sec-Butylbenzene            | 105 | 10.451    | 10.461        | -0.010        | 98 | 47240    | 5.00         | 4.28           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.565    | 10.564        | 0.001         | 97 | 35124    | 5.00         | 4.84           |       |
| 115 4-Isopropyltoluene          | 119 | 10.565    | 10.564        | 0.001         | 96 | 37859    | 5.00         | 3.11           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.622    | 10.623        | -0.001        | 95 | 256924   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.645    | 10.644        | 0.001         | 96 | 37701    | 5.00         | 4.87           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.657    | 10.655        | 0.002         | 97 | 57051    | 5.00         | 4.67           |       |
| 119 Benzyl chloride             | 91  | 10.748    | 10.747        | 0.001         | 99 | 37105    | 5.00         | 4.55           |       |
| 120 2,3-Dihydroindene           | 117 | 10.794    | 10.792        | 0.002         | 94 | 56045    | 5.00         | 4.52           |       |
| 121 p-Diethylbenzene            | 119 | 10.839    | 10.838        | 0.001         | 94 | 23424    | 5.00         | 4.34           |       |
| 122 n-Butylbenzene              | 92  | 10.862    | 10.861        | 0.001         | 98 | 24129    | 5.00         | 4.76           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.908    | 10.907        | 0.001         | 98 | 34650    | 5.00         | 4.85           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.342    | 11.340        | 0.002         | 97 | 36239    | 5.00         | 3.08           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.422    | 11.420        | 0.002         | 90 | 3661     | 5.00         | 4.77           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.502    | 11.500        | 0.002         | 96 | 23092    | 5.00         | 5.15           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.878    | 11.877        | 0.001         | 94 | 20344    | 5.00         | 4.75           |       |
| 128 Hexachlorobutadiene         | 225 | 11.935    | 11.934        | 0.001         | 93 | 7349     | 5.00         | 4.66           |       |
| 129 Naphthalene                 | 128 | 12.027    | 12.025        | 0.002         | 99 | 49138    | 5.00         | 4.38           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.187    | 12.185        | 0.002         | 94 | 18121    | 5.00         | 4.64           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0  |          | 10.0         | 10.3           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0  |          | 10.0         | 8.67           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0  |          | 25.0         | 23.4           |       |

**QC Flag Legend**

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| Ethanol mix_00019 | Amount Added: 1.00 | Units: uL |             |
| MIX 2 Hi_00074    | Amount Added: 1.00 | Units: uL |             |
| MIX I Hi_00097    | Amount Added: 1.00 | Units: uL |             |
| GAS Hi_00272      | Amount Added: 1.00 | Units: uL |             |
| ACROLEIN W_00080  | Amount Added: 4.00 | Units: uL |             |
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00181 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75068.D

Injection Date: 20-Sep-2018 13:19:30

Instrument ID: CVOAMS8

Lims ID: STD5

Operator ID:

Client ID:

Worklist Smp#: 5

Purge Vol: 5.000 mL

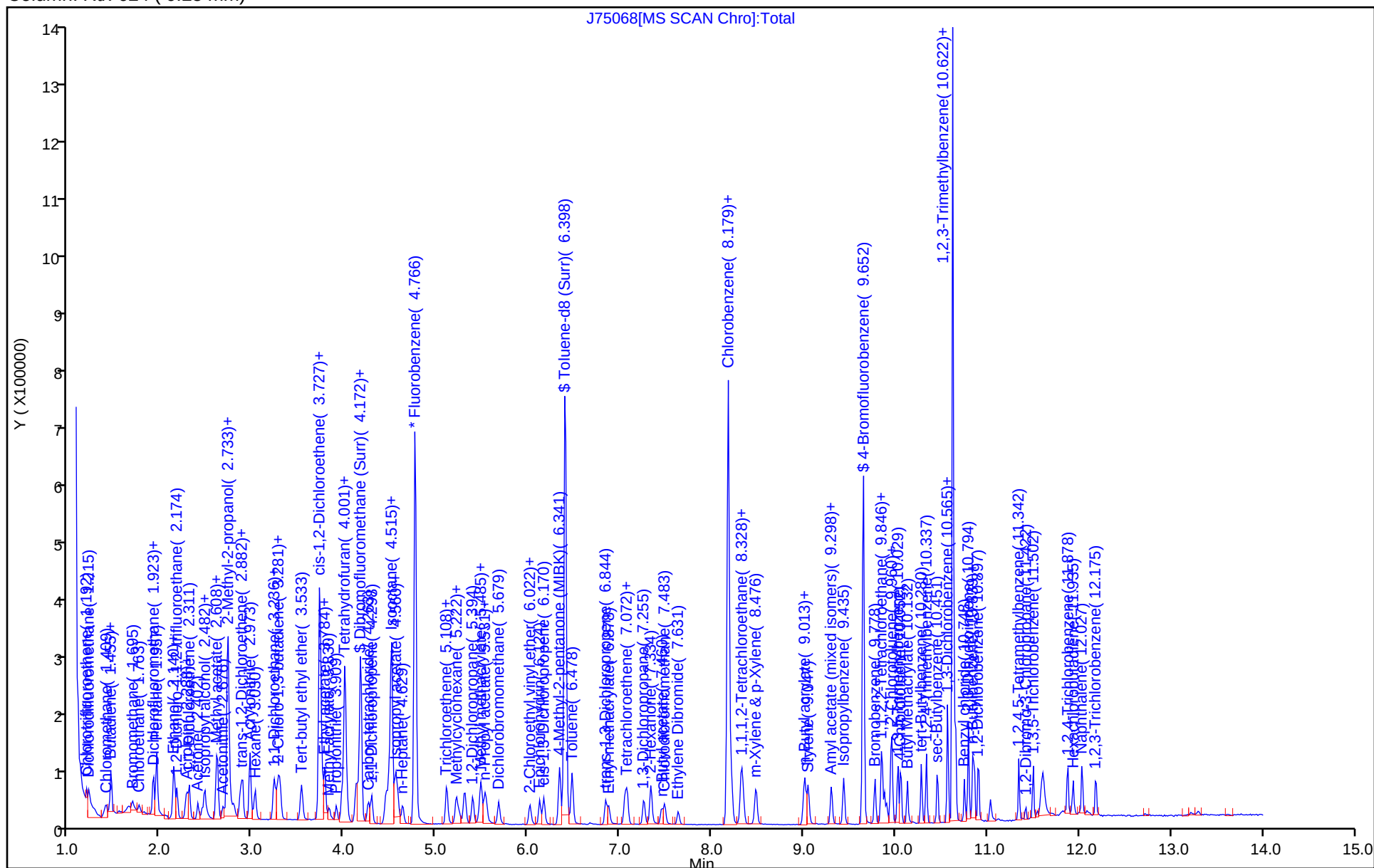
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)





## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75068.D

Injection Date: 20-Sep-2018 13:19:30

Instrument ID: CVOAMS8

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

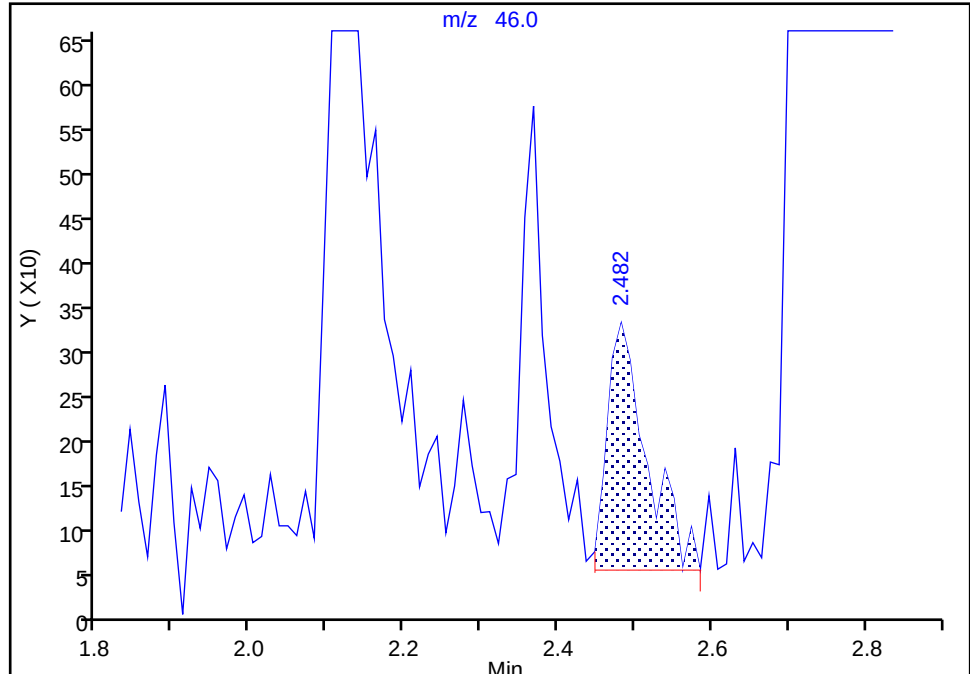
Detector: MS SCAN

**11 Ethanol, CAS: 64-17-5**

Signal: 1

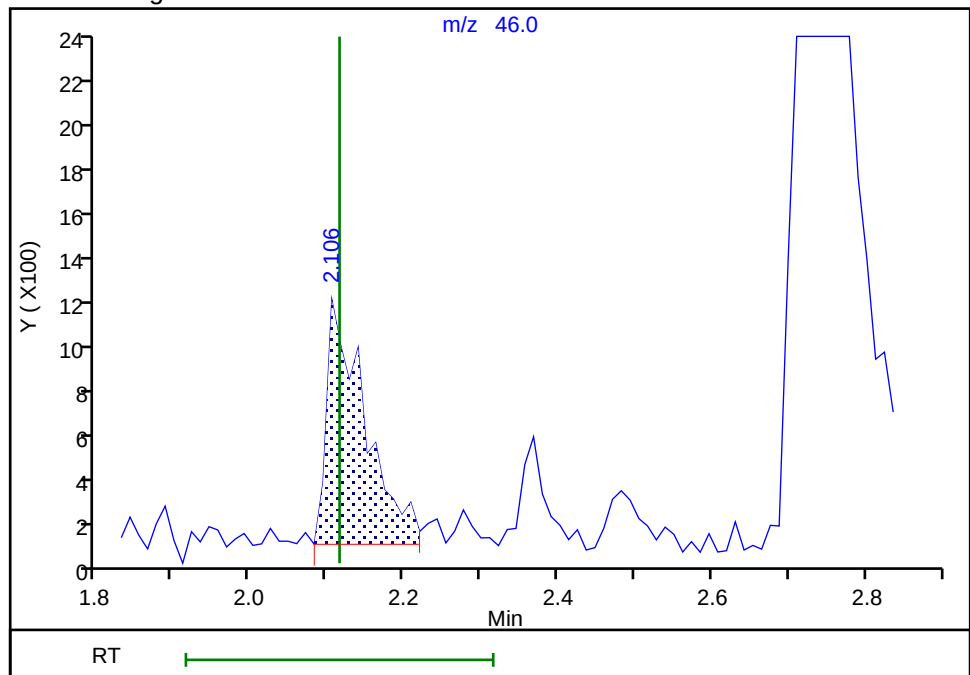
RT: 2.48  
Area: 998  
Amount: 74.686282  
Amount Units: ug/l

## Processing Integration Results



RT: 2.11  
Area: 3856  
Amount: 164.7782  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:31:45

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75068.D

Injection Date: 20-Sep-2018 13:19:30

Instrument ID: CVOAMS8

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

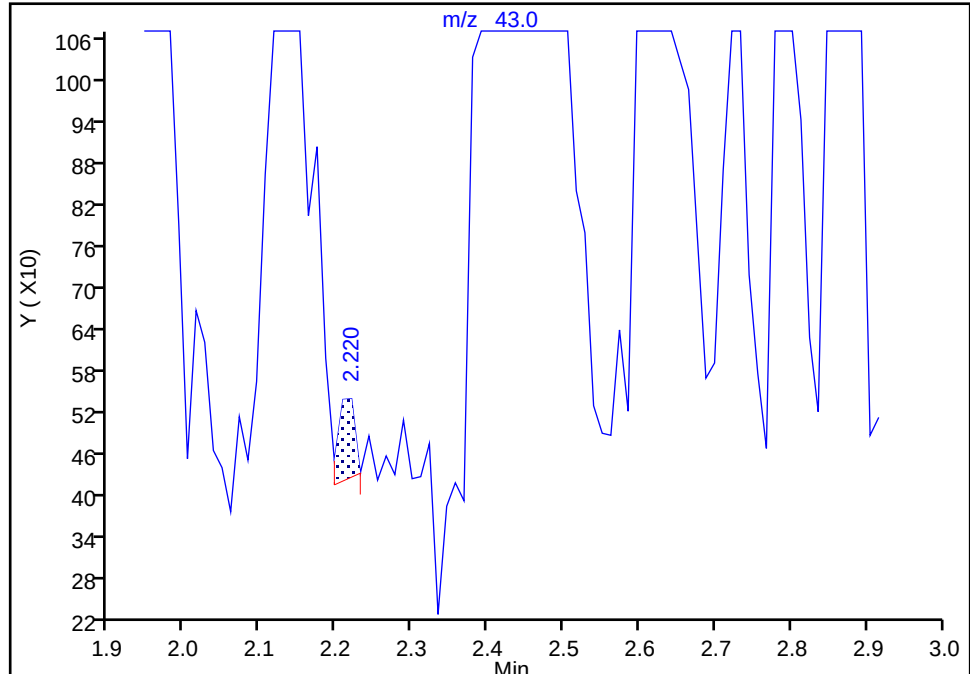
MS SCAN

**24 Methyl acetate, CAS: 79-20-9**

Signal: 1

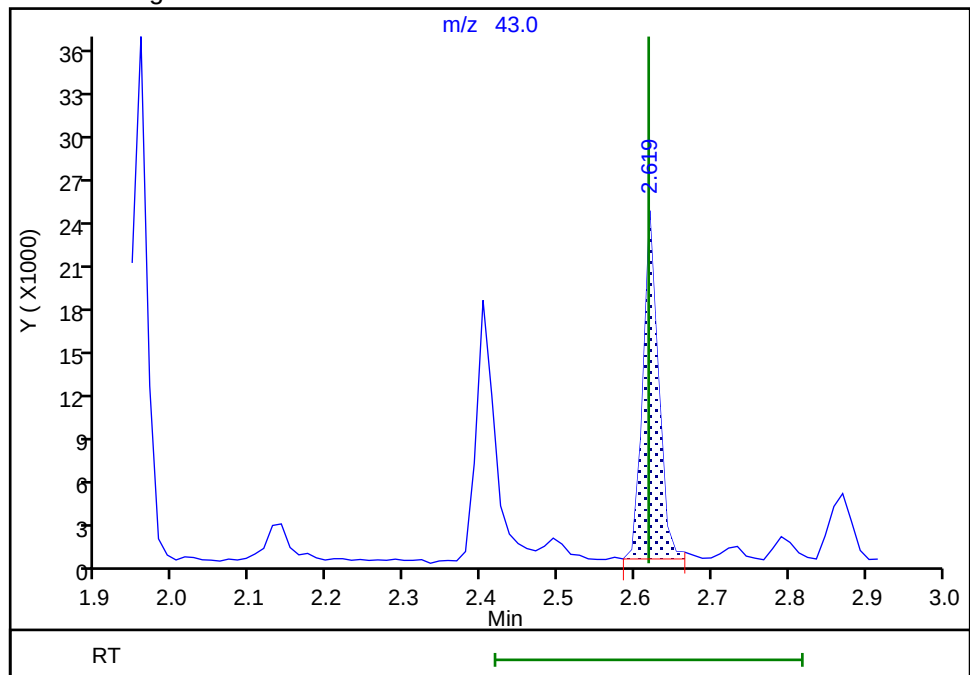
RT: 2.22  
Area: 183  
Amount: 0.052983  
Amount Units: ug/l

## Processing Integration Results



RT: 2.62  
Area: 33460  
Amount: 10.270536  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:32:44

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75068.D

Injection Date: 20-Sep-2018 13:19:30

Instrument ID: CVOAMS8

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

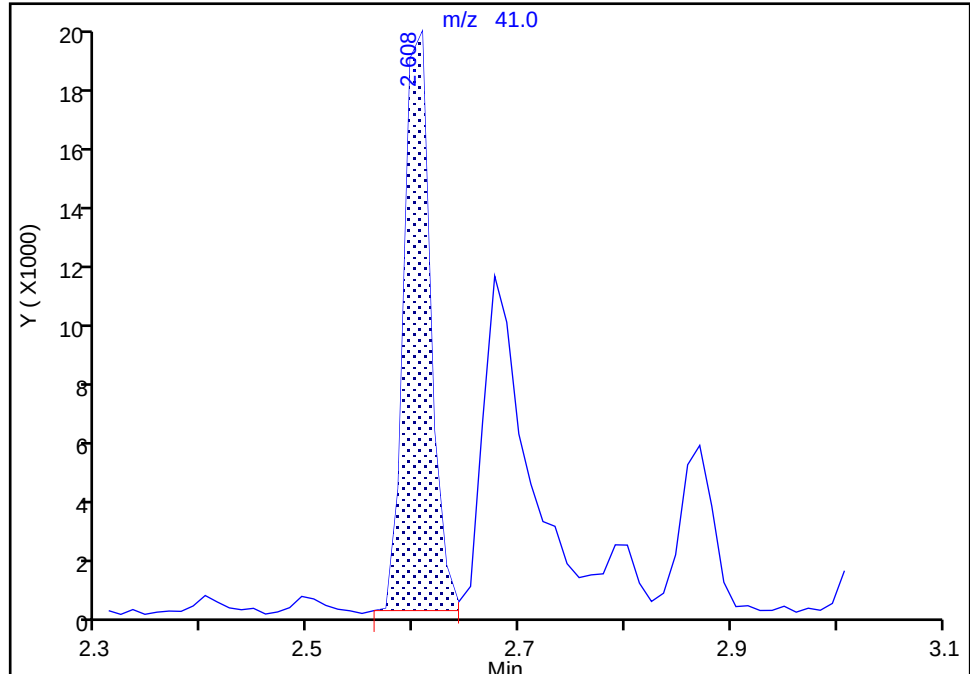
Detector: MS SCAN

**25 Acetonitrile, CAS: 75-05-8**

Signal: 1

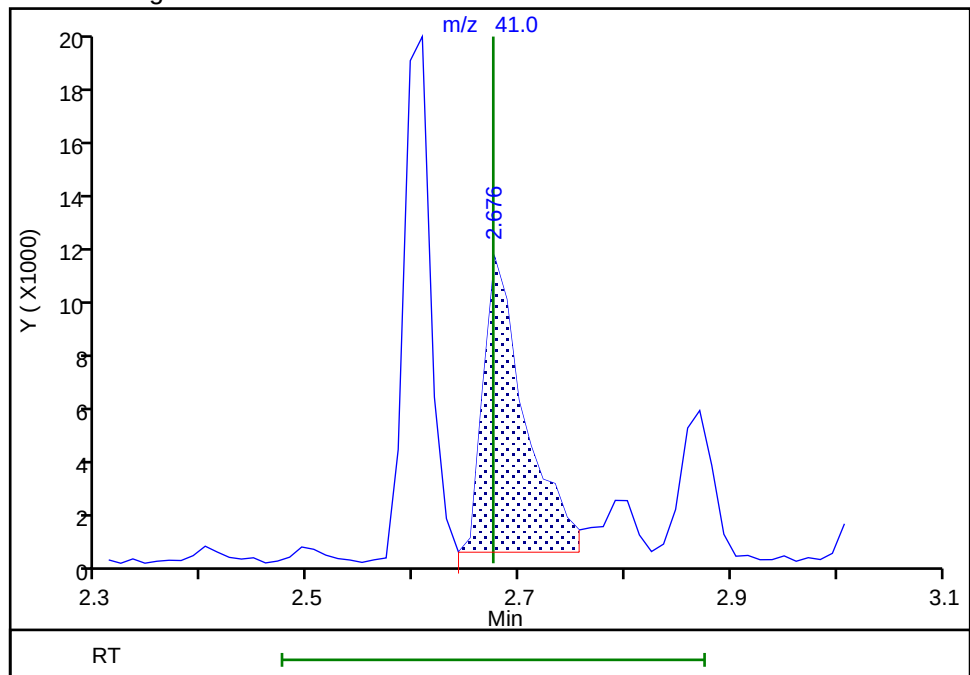
RT: 2.61  
Area: 34565  
Amount: 54.696427  
Amount Units: ug/l

## Processing Integration Results



RT: 2.68  
Area: 30363  
Amount: 51.333523  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:32:55

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75068.D

Injection Date: 20-Sep-2018 13:19:30

Instrument ID: CVOAMS8

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

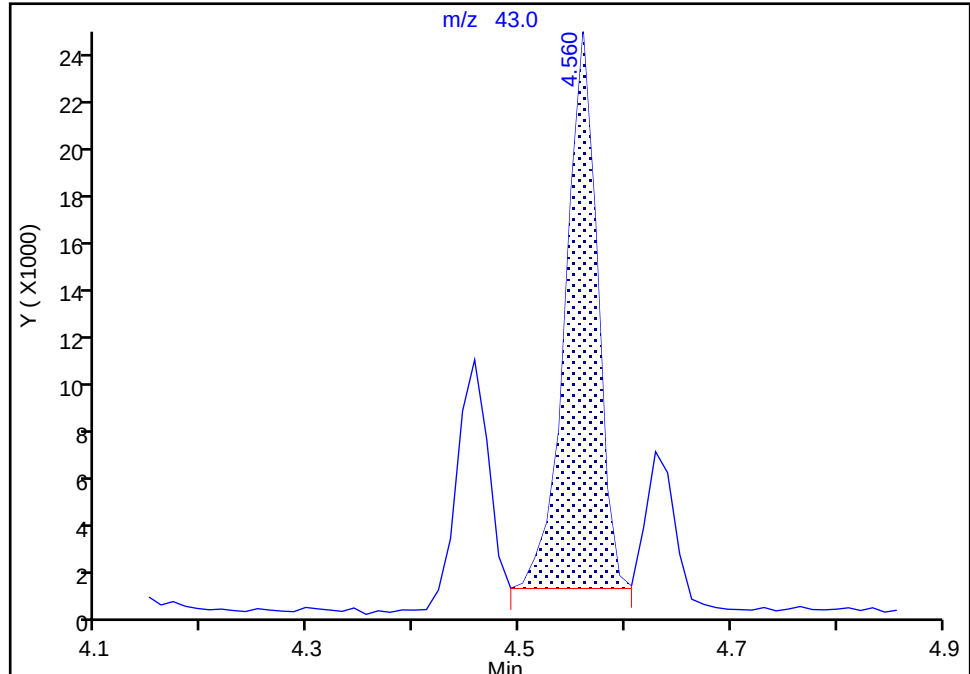
Detector: MS SCAN

**58 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

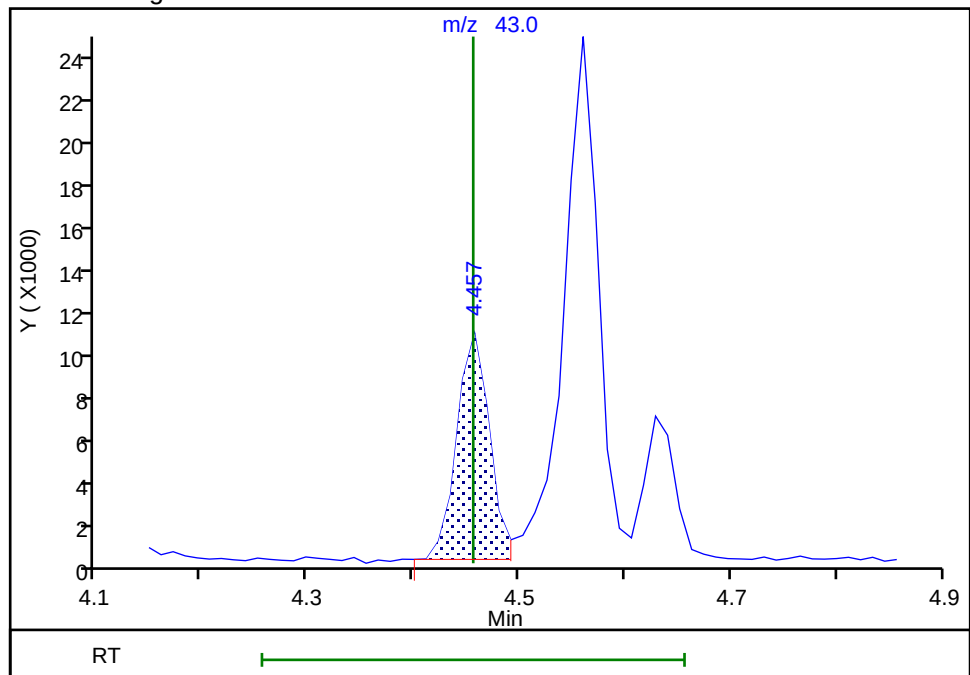
RT: 4.56  
Area: 48416  
Amount: 200.7064  
Amount Units: ug/l

## Processing Integration Results



RT: 4.46  
Area: 22402  
Amount: 108.9041  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:33:28

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75068.D

Injection Date: 20-Sep-2018 13:19:30

Instrument ID: CVOAMS8

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

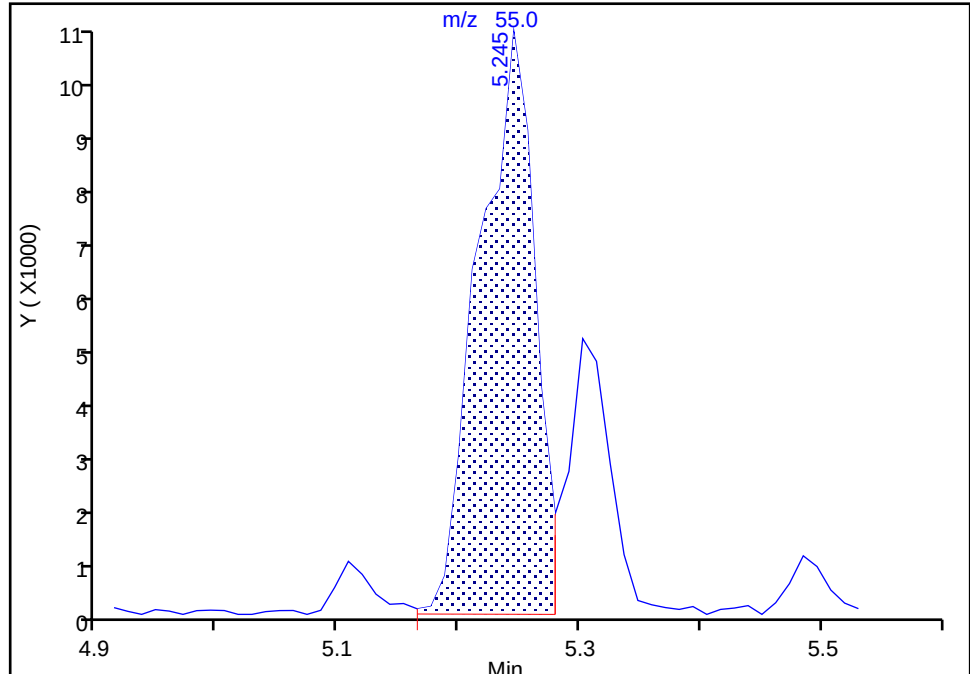
Detector: MS SCAN

**66 Ethyl acrylate, CAS: 140-88-5**

Signal: 1

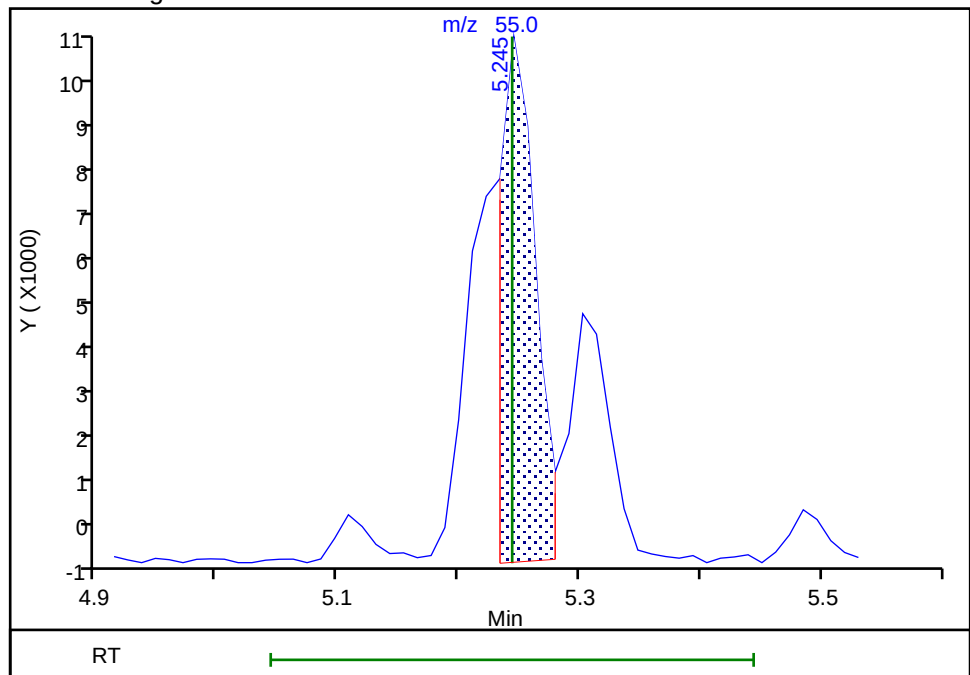
RT: 5.25  
Area: 35271  
Amount: 5.305401  
Amount Units: ug/l

## Processing Integration Results



RT: 5.25  
Area: 23005  
Amount: 4.113269  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:36:34

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75068.D

Injection Date: 20-Sep-2018 13:19:30

Instrument ID: CVOAMS8

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

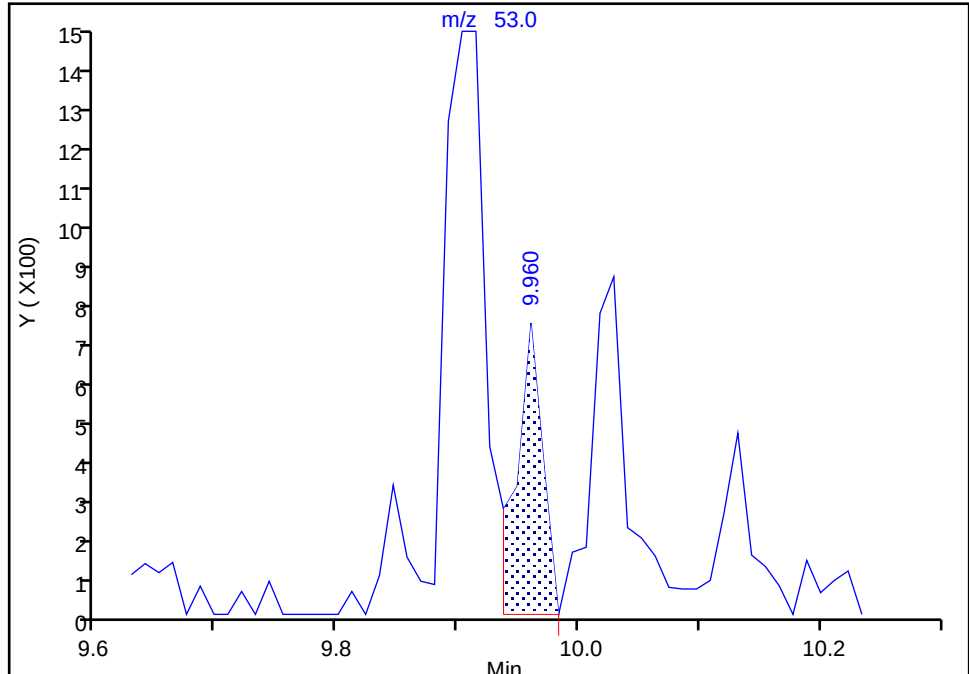
MS SCAN

**106 trans-1,4-Dichloro-2-butene, CAS: 110-57-6**

Signal: 1

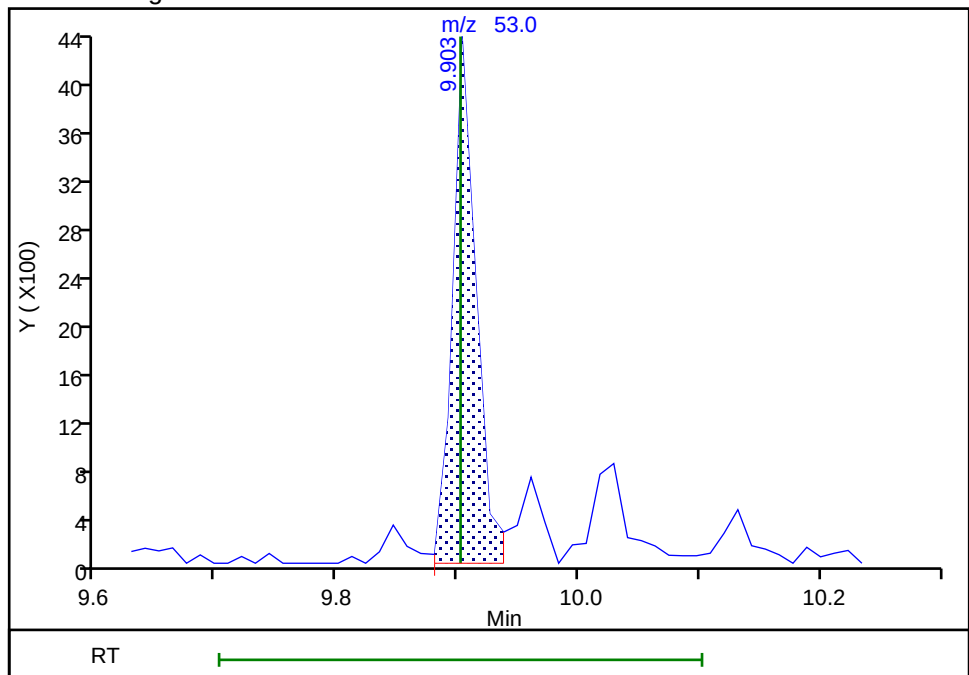
RT: 9.96  
Area: 1112  
Amount: 0.850460  
Amount Units: ug/l

## Processing Integration Results



RT: 9.90  
Area: 5905  
Amount: 4.604251  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:37:08

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75068.D

Injection Date: 20-Sep-2018 13:19:30

Instrument ID: CVOAMS8

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

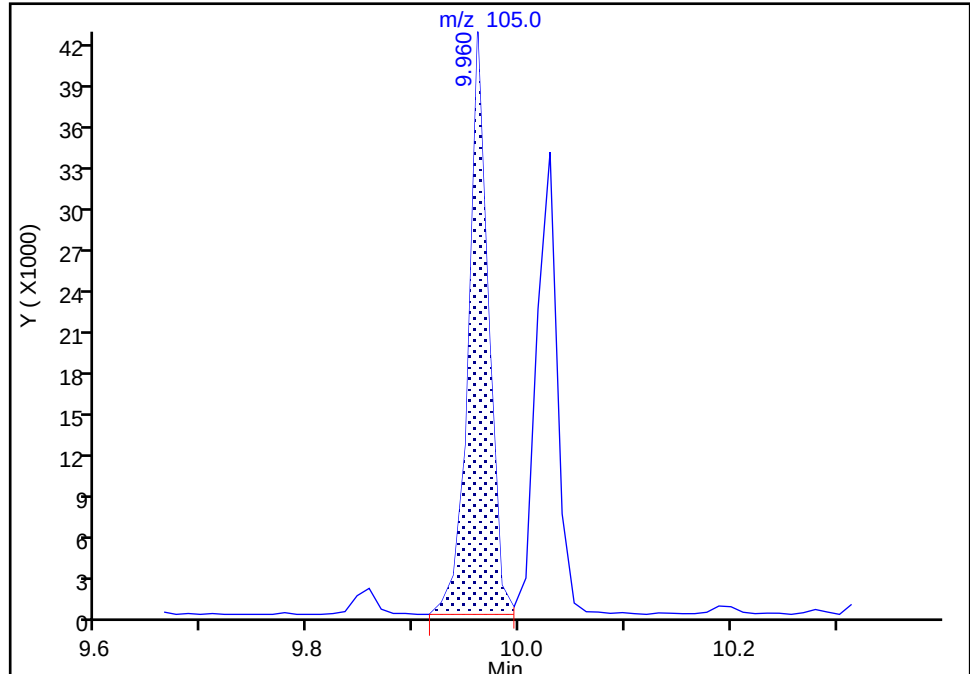
MS SCAN

**109 1,3,5-Trimethylbenzene, CAS: 108-67-8**

Signal: 1

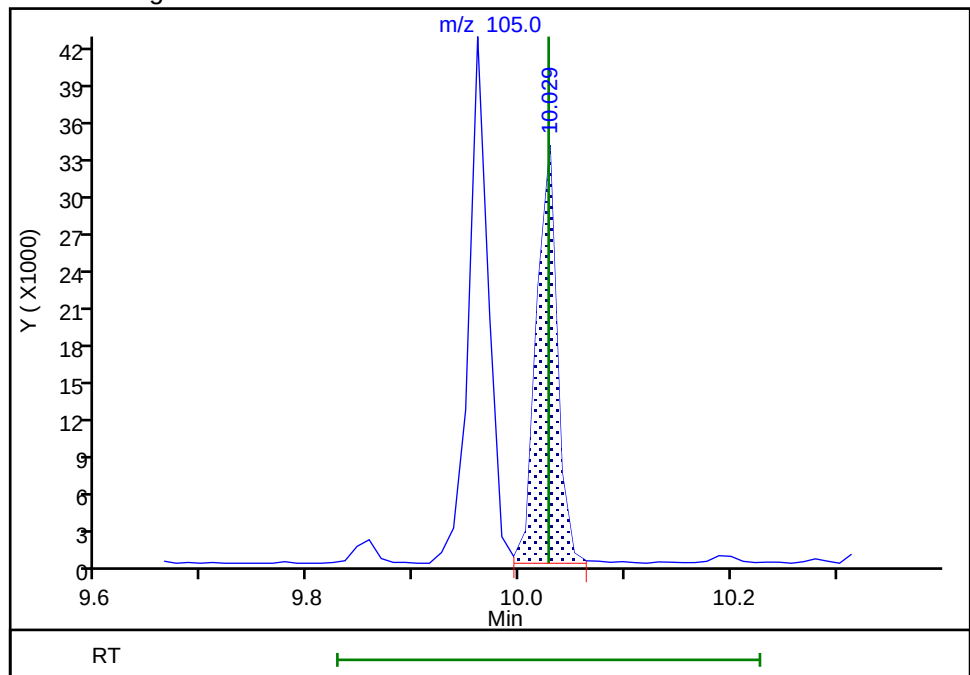
RT: 9.96  
Area: 55515  
Amount: 5.171173  
Amount Units: ug/l

## Processing Integration Results



RT: 10.03  
Area: 46199  
Amount: 4.578477  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:37:20

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75069.D  
 Lims ID: STD20  
 Client ID:  
 Sample Type: ICIS Calib Level: 3  
 Inject. Date: 20-Sep-2018 13:46:30 ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: STD20  
 Misc. Info.: 460-0078971-006  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 21-Sep-2018 15:38:52 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK007

First Level Reviewer: pakanatir

Date: 20-Sep-2018 17:10:44

| Compound                      | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|-------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.191        | 1.191            | 0.000            | 95  | 15022    | 20.0            | 24.0              |       |
| 2 Dichlorodifluoromethane     | 85  | 1.214        | 1.214            | 0.000            | 100 | 90539    | 20.0            | 19.1              |       |
| 3 Chloromethane               | 50  | 1.408        | 1.408            | 0.000            | 99  | 114315   | 20.0            | 20.5              |       |
| 4 Vinyl chloride              | 62  | 1.442        | 1.442            | 0.000            | 98  | 106410   | 20.0            | 20.5              |       |
| 5 Butadiene                   | 54  | 1.465        | 1.465            | 0.000            | 98  | 91043    | 20.0            | 20.8              |       |
| 6 Bromomethane                | 94  | 1.693        | 1.693            | 0.000            | 98  | 46294    | 20.0            | 18.6              |       |
| 7 Chloroethane                | 64  | 1.762        | 1.762            | 0.000            | 100 | 49065    | 20.0            | 19.2              |       |
| 9 Trichlorofluoromethane      | 101 | 1.922        | 1.922            | 0.000            | 99  | 109922   | 20.0            | 21.4              |       |
| 8 Dichlorofluoromethane       | 67  | 1.922        | 1.922            | 0.000            | 88  | 140502   | 20.0            | 19.7              |       |
| 10 Pentane                    | 72  | 1.956        | 1.956            | 0.000            | 97  | 18172    | 40.0            | 37.7              |       |
| 11 Ethanol                    | 46  | 2.116        | 2.116            | 0.000            | 79  | 19115    | 800.0           | 796.5             | a     |
| 12 Ethyl ether                | 59  | 2.138        | 2.138            | 0.000            | 91  | 56403    | 20.0            | 19.4              |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.150        | 2.150            | 0.000            | 97  | 63449    | 20.0            | 19.9              |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.173        | 2.173            | 0.000            | 97  | 58024    | 20.0            | 20.3              |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.275        | 2.275            | 0.000            | 97  | 67798    | 20.0            | 20.9              |       |
| 16 Acrolein                   | 56  | 2.287        | 2.287            | 0.000            | 94  | 29550    | 40.0            | 41.0              |       |
| 17 1,1-Dichloroethene         | 96  | 2.310        | 2.310            | 0.000            | 98  | 62313    | 20.0            | 19.6              |       |
| 18 Acetone                    | 43  | 2.401        | 2.401            | 0.000            | 87  | 120313   | 100.0           | 99.2              |       |
| 19 Iodomethane                | 142 | 2.447        | 2.447            | 0.000            | 99  | 93306    | 20.0            | 18.3              |       |
| 20 Carbon disulfide           | 76  | 2.481        | 2.481            | 0.000            | 99  | 250245   | 20.0            | 19.8              |       |
| 21 Isopropyl alcohol          | 45  | 2.492        | 2.492            | 0.000            | 99  | 53005    | 200.0           | 194.6             |       |
| 22 3-Chloro-1-propene         | 76  | 2.607        | 2.607            | 0.000            | 92  | 42977    | 20.0            | 20.3              |       |
| 24 Methyl acetate             | 43  | 2.618        | 2.618            | 0.000            | 100 | 142738   | 40.0            | 42.2              | a     |
| 23 Cyclopentene               | 67  | 2.618        | 2.618            | 0.000            | 93  | 171573   | 20.0            | 19.6              |       |
| 25 Acetonitrile               | 41  | 2.675        | 2.675            | 0.000            | 98  | 124568   | 200.0           | 205.3             | a     |
| 26 Methylene Chloride         | 84  | 2.721        | 2.721            | 0.000            | 97  | 80685    | 20.0            | 20.2              |       |
| * 27 TBA-d9 (IS)              | 65  | 2.732        | 2.732            | 0.000            | 0   | 335021   | 1000.0          | 1000.0            |       |
| 28 2-Methyl-2-propanol        | 59  | 2.801        | 2.801            | 0.000            | 99  | 75877    | 200.0           | 192.1             |       |
| 29 Methyl tert-butyl ether    | 73  | 2.869        | 2.869            | 0.000            | 98  | 189943   | 20.0            | 20.0              |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.892        | 2.892            | 0.000            | 96  | 70746    | 20.0            | 19.4              |       |



| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 31 Acrylonitrile                 | 53  | 2.972     | 2.972         | 0.000         | 95  | 345054   | 200.0        | 204.7          |       |
| 32 Hexane                        | 57  | 3.029     | 3.029         | 0.000         | 94  | 76532    | 20.0         | 20.0           |       |
| 33 Isopropyl ether               | 45  | 3.234     | 3.234         | 0.000         | 98  | 260449   | 20.0         | 20.4           |       |
| 34 1,1-Dichloroethane            | 63  | 3.257     | 3.257         | 0.000         | 99  | 138083   | 20.0         | 19.7           |       |
| 35 Vinyl acetate                 | 43  | 3.280     | 3.280         | 0.000         | 100 | 320867   | 40.0         | 42.0           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.303     | 3.303         | 0.000         | 91  | 63078    | 20.0         | 19.2           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.531     | 3.531         | 0.000         | 88  | 216383   | 20.0         | 20.2           |       |
| 38 2,2-Dichloropropane           | 79  | 3.725     | 3.725         | 0.000         | 96  | 33814    | 20.0         | 20.2           |       |
| * 39 2-Butanone-d5               | 46  | 3.725     | 3.725         | 0.000         | 0   | 467518   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.760     | 3.760         | 0.000         | 97  | 83023    | 20.0         | 19.8           |       |
| 41 2-Butanone (MEK)              | 72  | 3.782     | 3.782         | 0.000         | 95  | 46620    | 100.0        | 96.5           |       |
| 42 Ethyl acetate                 | 70  | 3.782     | 3.782         | 0.000         | 94  | 18807    | 40.0         | 39.8           |       |
| 43 Methyl acrylate               | 55  | 3.828     | 3.828         | 0.000         | 99  | 76084    | 20.0         | 19.5           |       |
| 44 Propionitrile                 | 54  | 3.908     | 3.908         | 0.000         | 98  | 133787   | 200.0        | 200.9          |       |
| 45 Tetrahydrofuran               | 72  | 3.977     | 3.977         | 0.000         | 94  | 20470    | 40.0         | 41.5           |       |
| 46 Chlorobromomethane            | 128 | 3.977     | 3.977         | 0.000         | 94  | 40675    | 20.0         | 19.8           |       |
| 47 Methacrylonitrile             | 67  | 3.999     | 3.999         | 0.000         | 94  | 345656   | 200.0        | 207.7          |       |
| 48 Chloroform                    | 83  | 4.022     | 4.022         | 0.000         | 98  | 131798   | 20.0         | 20.5           |       |
| 49 Cyclohexane                   | 84  | 4.125     | 4.125         | 0.000         | 95  | 86191    | 20.0         | 20.4           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.148     | 4.148         | 0.000         | 99  | 103894   | 20.0         | 20.3           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.171     | 4.171         | 0.000         | 97  | 168321   | 50.0         | 50.5           |       |
| 52 Carbon tetrachloride          | 117 | 4.262     | 4.262         | 0.000         | 99  | 91087    | 20.0         | 20.3           |       |
| 53 1,1-Dichloropropene           | 75  | 4.296     | 4.296         | 0.000         | 97  | 90206    | 20.0         | 19.6           |       |
| 54 Isooctane                     | 57  | 4.445     | 4.445         | 0.000         | 94  | 127428   | 20.0         | 20.3           |       |
| 58 Isobutyl alcohol              | 43  | 4.456     | 4.456         | 0.000         | 94  | 108056   | 500.0        | 512.2          | a     |
| 55 Benzene                       | 78  | 4.490     | 4.490         | 0.000         | 96  | 295005   | 20.0         | 20.7           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513     | 4.513         | 0.000         | 0   | 183029   | 50.0         | 50.2           |       |
| 59 Isopropyl acetate             | 43  | 4.559     | 4.559         | 0.000         | 94  | 217168   | 20.0         | 20.4           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.559     | 4.559         | 0.000         | 75  | 54748    | 20.0         | 18.9           |       |
| 60 1,2-Dichloroethane            | 62  | 4.582     | 4.582         | 0.000         | 96  | 97371    | 20.0         | 19.8           |       |
| 61 n-Heptane                     | 57  | 4.639     | 4.639         | 0.000         | 94  | 28462    | 20.0         | 19.6           |       |
| * 62 Fluorobenzene               | 96  | 4.764     | 4.764         | 0.000         | 99  | 619253   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.107     | 5.107         | 0.000         | 93  | 44588    | 500.0        | 471.5          |       |
| 64 Trichloroethene               | 95  | 5.118     | 5.118         | 0.000         | 99  | 73580    | 20.0         | 20.2           |       |
| 65 Methylcyclohexane             | 83  | 5.221     | 5.221         | 0.000         | 90  | 84505    | 20.0         | 19.5           |       |
| 66 Ethyl acrylate                | 55  | 5.244     | 5.244         | 0.000         | 97  | 118114   | 20.0         | 20.3           | M     |
| 67 1,2-Dichloropropane           | 63  | 5.392     | 5.392         | 0.000         | 91  | 80823    | 20.0         | 20.3           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472     | 5.472         | 0.000         | 0   | 37452    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.484     | 5.484         | 0.000         | 94  | 36110    | 40.0         | 40.4           |       |
| 71 Dibromomethane                | 93  | 5.529     | 5.529         | 0.000         | 97  | 52603    | 20.0         | 19.9           |       |
| 70 1,4-Dioxane                   | 88  | 5.529     | 5.529         | 0.000         | 34  | 18177    | 400.0        | 389.8          |       |
| 72 n-Propyl acetate              | 43  | 5.541     | 5.541         | 0.000         | 98  | 122620   | 20.0         | 20.2           |       |
| 73 Dichlorobromomethane          | 83  | 5.678     | 5.678         | 0.000         | 99  | 102727   | 20.0         | 20.1           |       |
| 74 2-Nitropropane                | 41  | 6.020     | 6.020         | 0.000         | 80  | 39076    | 40.0         | 36.9           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.020     | 6.020         | 0.000         | 70  | 42534    | 20.0         | 15.8           |       |
| 76 Epichlorohydrin               | 57  | 6.123     | 6.123         | 0.000         | 100 | 163560   | 400.0        | 424.6          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.169     | 6.169         | 0.000         | 94  | 117642   | 20.0         | 20.7           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.340     | 6.340         | 0.000         | 97  | 397606   | 100.0        | 100.6          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.408     | 6.408         | 0.000         | 99  | 584763   | 50.0         | 51.3           |       |
| 80 Toluene                       | 91  | 6.477     | 6.477         | 0.000         | 94  | 292144   | 20.0         | 20.1           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.842     | 6.842         | 0.000         | 97  | 101820   | 20.0         | 19.7           |       |
| 82 Ethyl methacrylate            | 69  | 6.876     | 6.876         | 0.000         | 92  | 80997    | 20.0         | 16.0           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 83 1,1,2-Trichloroethane        | 83  | 7.059     | 7.059         | 0.000         | 96 | 65089    | 20.0         | 20.4           |       |
| 84 Tetrachloroethene            | 166 | 7.082     | 7.082         | 0.000         | 97 | 75527    | 20.0         | 20.7           |       |
| 85 1,3-Dichloropropane          | 76  | 7.265     | 7.265         | 0.000         | 96 | 109873   | 20.0         | 20.2           |       |
| 86 2-Hexanone                   | 58  | 7.333     | 7.333         | 0.000         | 99 | 135574   | 100.0        | 98.7           |       |
| 87 n-Butyl acetate              | 43  | 7.447     | 7.447         | 0.000         | 98 | 119474   | 20.0         | 19.9           |       |
| 88 Chlorodibromomethane         | 129 | 7.493     | 7.493         | 0.000         | 98 | 80988    | 20.0         | 20.2           |       |
| 89 Ethylene Dibromide           | 107 | 7.630     | 7.630         | 0.000         | 99 | 73106    | 20.0         | 20.1           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.178     | 8.178         | 0.000         | 86 | 477743   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.212     | 8.212         | 0.000         | 95 | 197153   | 20.0         | 20.3           |       |
| 92 Ethylbenzene                 | 106 | 8.315     | 8.315         | 0.000         | 99 | 92717    | 20.0         | 19.9           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.338     | 8.338         | 0.000         | 97 | 70974    | 20.0         | 19.9           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.475     | 8.475         | 0.000         | 0  | 107612   | 20.0         | 19.2           |       |
| 96 o-Xylene                     | 106 | 9.011     | 9.011         | 0.000         | 93 | 104593   | 20.0         | 18.8           |       |
| 95 n-Butyl acrylate             | 73  | 9.011     | 9.011         | 0.000         | 96 | 52424    | 20.0         | 16.8           |       |
| 97 Styrene                      | 104 | 9.046     | 9.046         | 0.000         | 95 | 203903   | 20.0         | 20.3           |       |
| 99 Bromoform                    | 173 | 9.297     | 9.297         | 0.000         | 96 | 58048    | 20.0         | 20.2           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.297     | 9.297         | 0.000         | 89 | 123005   | 20.0         | 17.0           |       |
| 100 Isopropylbenzene            | 105 | 9.434     | 9.434         | 0.000         | 96 | 259352   | 20.0         | 19.5           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.651     | 9.651         | 0.000         | 94 | 179341   | 50.0         | 49.8           |       |
| 102 Bromobenzene                | 156 | 9.776     | 9.776         | 0.000         | 96 | 84023    | 20.0         | 19.4           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.845     | 9.845         | 0.000         | 98 | 104673   | 20.0         | 20.1           |       |
| 104 N-Propylbenzene             | 91  | 9.856     | 9.856         | 0.000         | 99 | 313113   | 20.0         | 20.4           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.879     | 9.879         | 0.000         | 97 | 25928    | 20.0         | 20.4           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.902     | 9.902         | 0.000         | 82 | 28425    | 20.0         | 20.9           |       |
| 107 2-Chlorotoluene             | 91  | 9.948     | 9.948         | 0.000         | 98 | 238890   | 20.0         | 20.7           |       |
| 108 4-Ethyltoluene              | 105 | 9.959     | 9.959         | 0.000         | 98 | 278585   | 20.0         | 21.3           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.027    | 10.027        | 0.000         | 93 | 225088   | 20.0         | 21.1           | a     |
| 110 4-Chlorotoluene             | 91  | 10.062    | 10.062        | 0.000         | 97 | 233726   | 20.0         | 21.2           |       |
| 111 Butyl Methacrylate          | 87  | 10.130    | 10.130        | 0.000         | 91 | 87279    | 20.0         | 16.9           |       |
| 112 tert-Butylbenzene           | 119 | 10.279    | 10.279        | 0.000         | 94 | 171401   | 20.0         | 20.5           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.336    | 10.336        | 0.000         | 98 | 240372   | 20.0         | 20.0           |       |
| 114 sec-Butylbenzene            | 105 | 10.461    | 10.461        | 0.000         | 99 | 243387   | 20.0         | 20.8           |       |
| 115 4-Isopropyltoluene          | 119 | 10.564    | 10.564        | 0.000         | 97 | 212318   | 20.0         | 16.5           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.564    | 10.564        | 0.000         | 87 | 155802   | 20.0         | 20.3           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.621    | 10.621        | 0.000         | 95 | 271983   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.644    | 10.644        | 0.000         | 96 | 160206   | 20.0         | 19.5           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.655    | 10.655        | 0.000         | 98 | 268905   | 20.0         | 20.8           |       |
| 119 Benzyl chloride             | 91  | 10.747    | 10.747        | 0.000         | 99 | 169047   | 20.0         | 19.6           |       |
| 120 2,3-Dihydroindene           | 117 | 10.792    | 10.792        | 0.000         | 94 | 277398   | 20.0         | 21.1           |       |
| 121 p-Diethylbenzene            | 119 | 10.838    | 10.838        | 0.000         | 92 | 117443   | 20.0         | 20.5           |       |
| 122 n-Butylbenzene              | 92  | 10.861    | 10.861        | 0.000         | 97 | 110508   | 20.0         | 20.6           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.907    | 10.907        | 0.000         | 98 | 155035   | 20.0         | 20.5           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.340    | 11.340        | 0.000         | 97 | 200352   | 20.0         | 16.2           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.420    | 11.420        | 0.000         | 95 | 15633    | 20.0         | 19.2           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.500    | 11.500        | 0.000         | 97 | 91941    | 20.0         | 19.4           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.877    | 11.877        | 0.000         | 93 | 86424    | 20.0         | 19.1           |       |
| 128 Hexachlorobutadiene         | 225 | 11.934    | 11.934        | 0.000         | 96 | 30519    | 20.0         | 19.9           |       |
| 129 Naphthalene                 | 128 | 12.025    | 12.025        | 0.000         | 99 | 230937   | 20.0         | 19.4           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.185    | 12.185        | 0.000         | 95 | 76705    | 20.0         | 18.6           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0  |          | 40.0         | 39.2           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0  |          | 40.0         | 38.0           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0  |          | 100.0        | 98.7           |       |

**QC Flag Legend**

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| Ethanol mix_00019 | Amount Added: 2.00 | Units: uL |             |
| MIX 2 Hi_00074    | Amount Added: 2.00 | Units: uL |             |
| MIX I Hi_00097    | Amount Added: 2.00 | Units: uL |             |
| GAS Hi_00272      | Amount Added: 2.00 | Units: uL |             |
| ACROLEIN W_00080  | Amount Added: 4.00 | Units: uL |             |
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00181 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75069.D

Injection Date: 20-Sep-2018 13:46:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD20

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

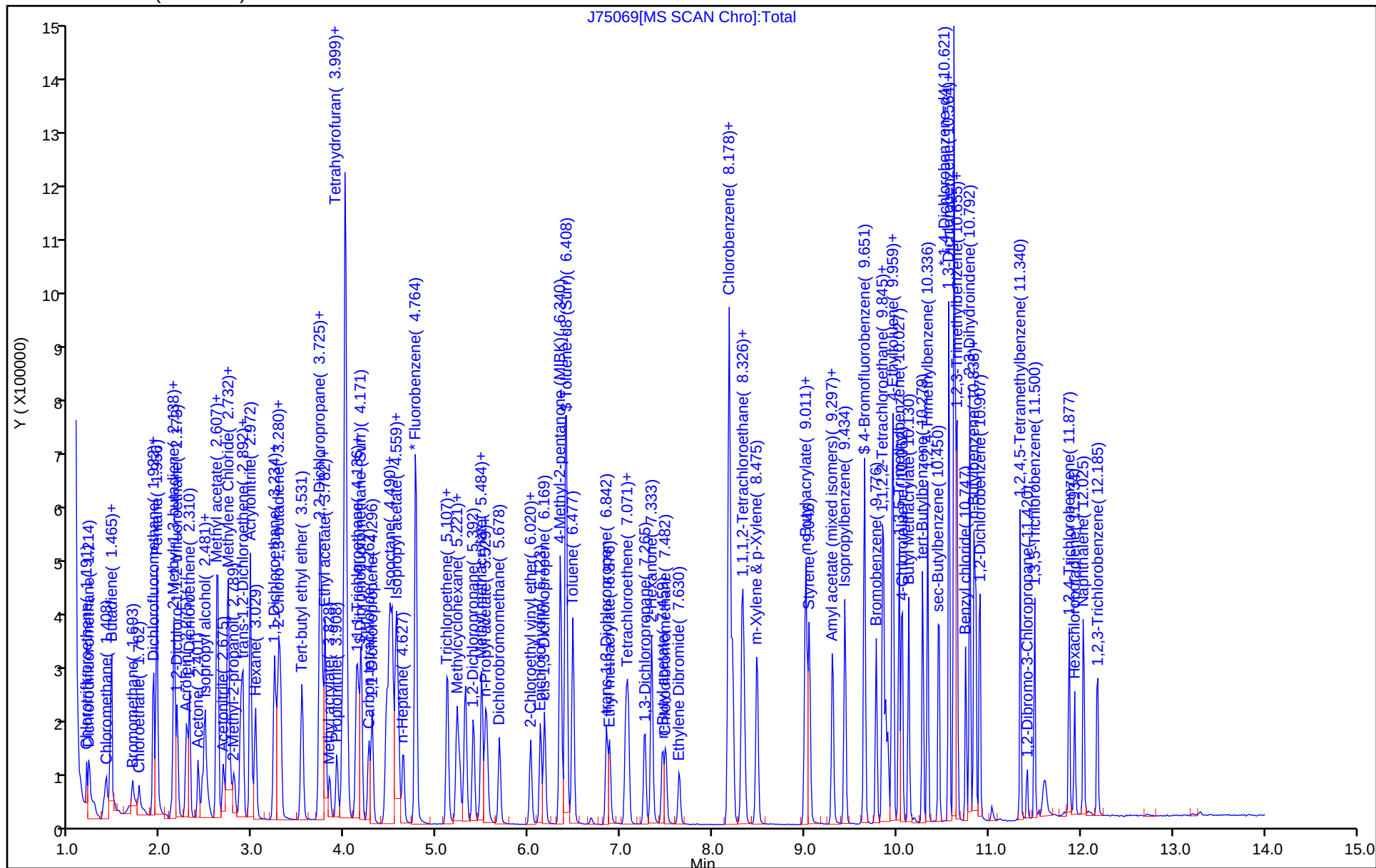
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75069.D

Injection Date: 20-Sep-2018 13:46:30

Instrument ID: CVOAMS8

Lims ID: STD20

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

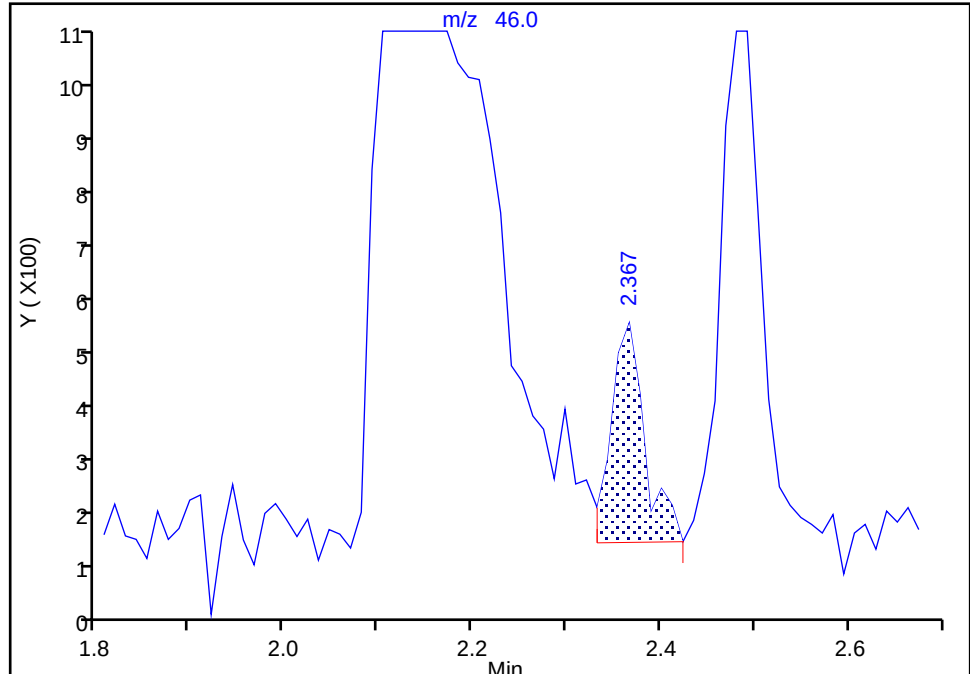
Detector: MS SCAN

**11 Ethanol, CAS: 64-17-5**

Signal: 1

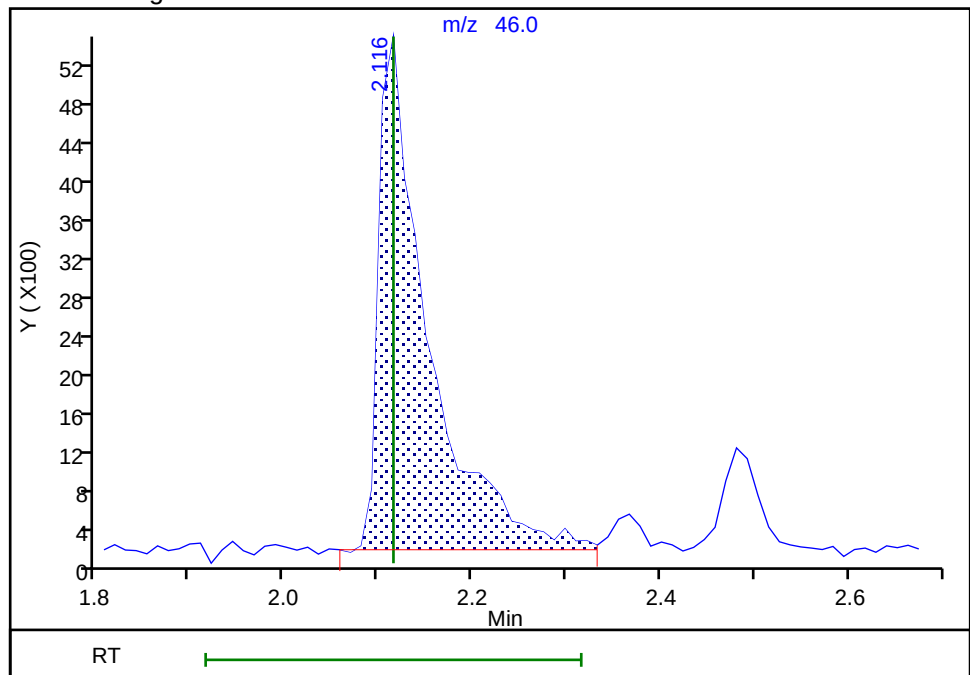
RT: 2.37  
Area: 945  
Amount: 20.560756  
Amount Units: ug/l

## Processing Integration Results



RT: 2.12  
Area: 19115  
Amount: 796.4620  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:39:29

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75069.D

Injection Date: 20-Sep-2018 13:46:30

Instrument ID: CVOAMS8

Lims ID: STD20

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

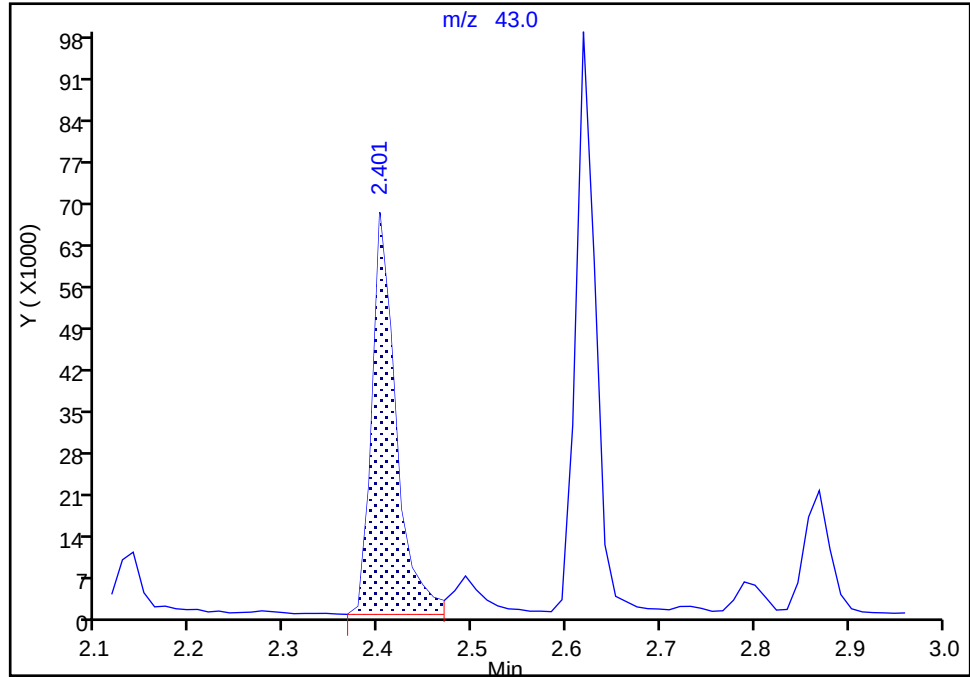
Detector: MS SCAN

**24 Methyl acetate, CAS: 79-20-9**

Signal: 1

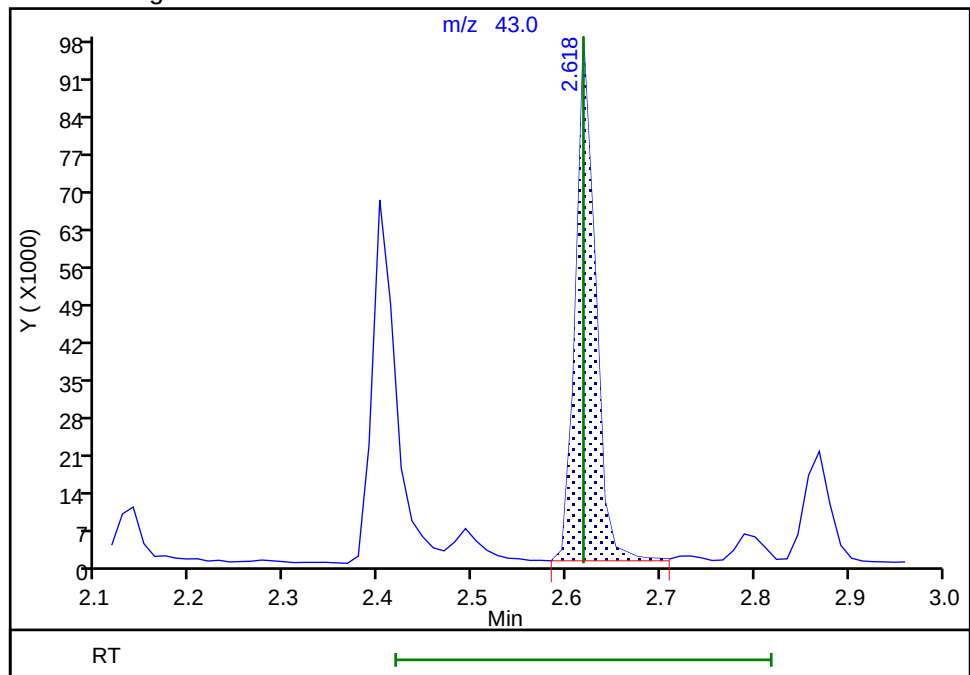
RT: 2.40  
Area: 120313  
Amount: 42.597103  
Amount Units: ug/l

## Processing Integration Results



RT: 2.62  
Area: 142738  
Amount: 42.198185  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:05:56

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75069.D

Injection Date: 20-Sep-2018 13:46:30

Instrument ID: CVOAMS8

Lims ID: STD20

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

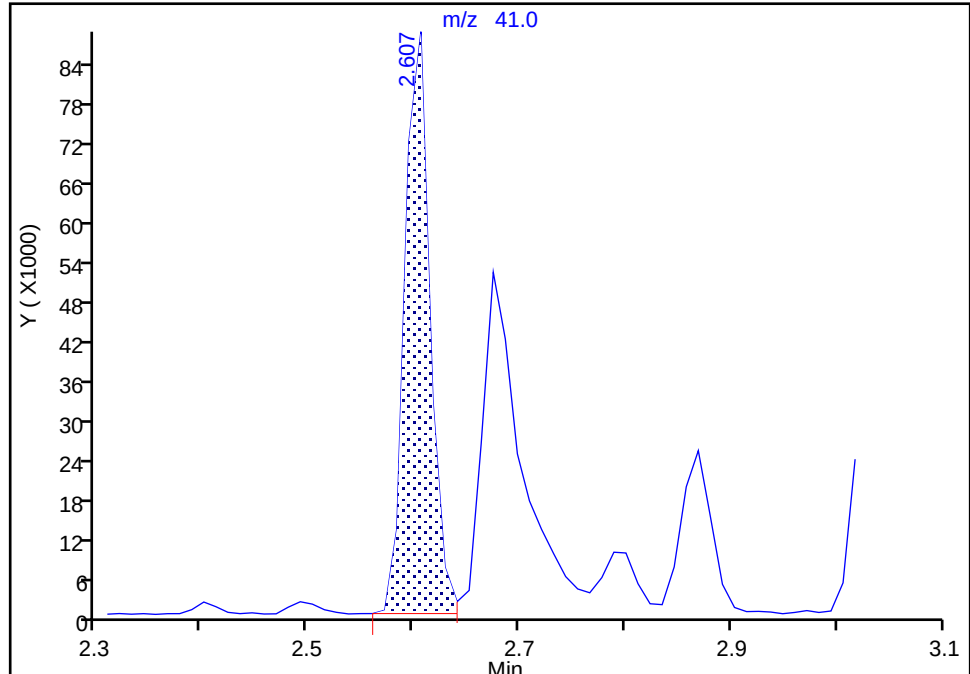
Detector: MS SCAN

**25 Acetonitrile, CAS: 75-05-8**

Signal: 1

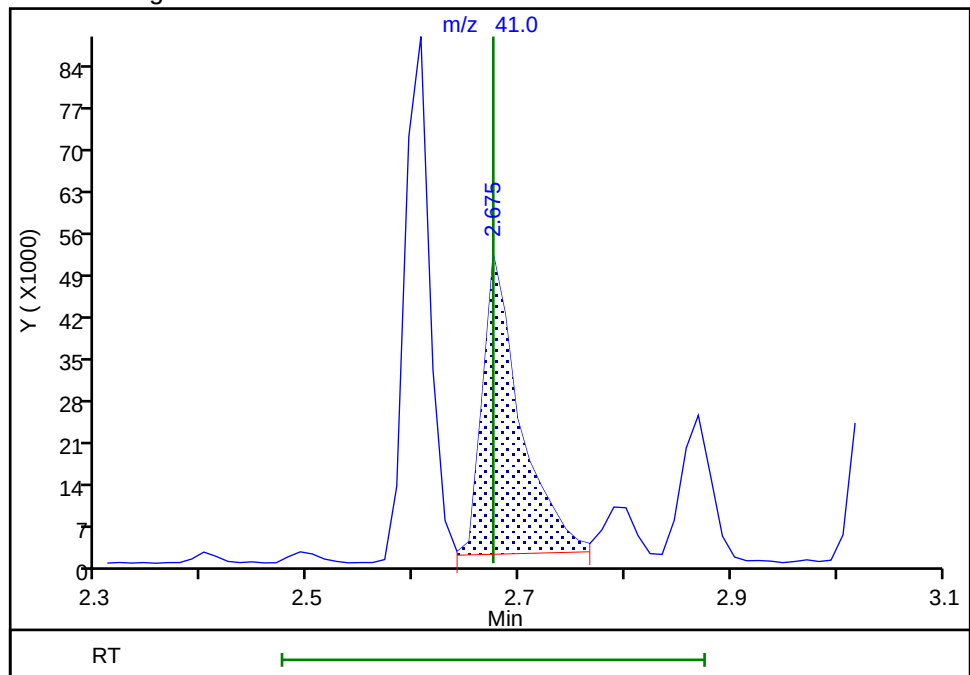
RT: 2.61  
Area: 146587  
Amount: 207.3553  
Amount Units: ug/l

## Processing Integration Results



RT: 2.68  
Area: 124568  
Amount: 205.3482  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:06:32

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75069.D

Injection Date: 20-Sep-2018 13:46:30

Instrument ID: CVOAMS8

Lims ID: STD20

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

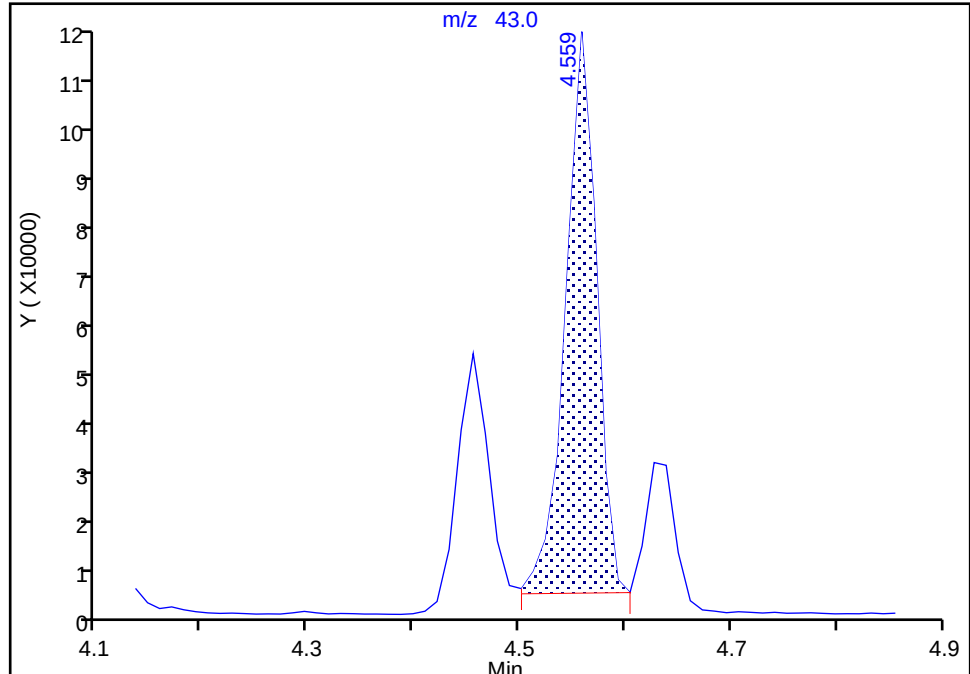
Detector: MS SCAN

**58 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

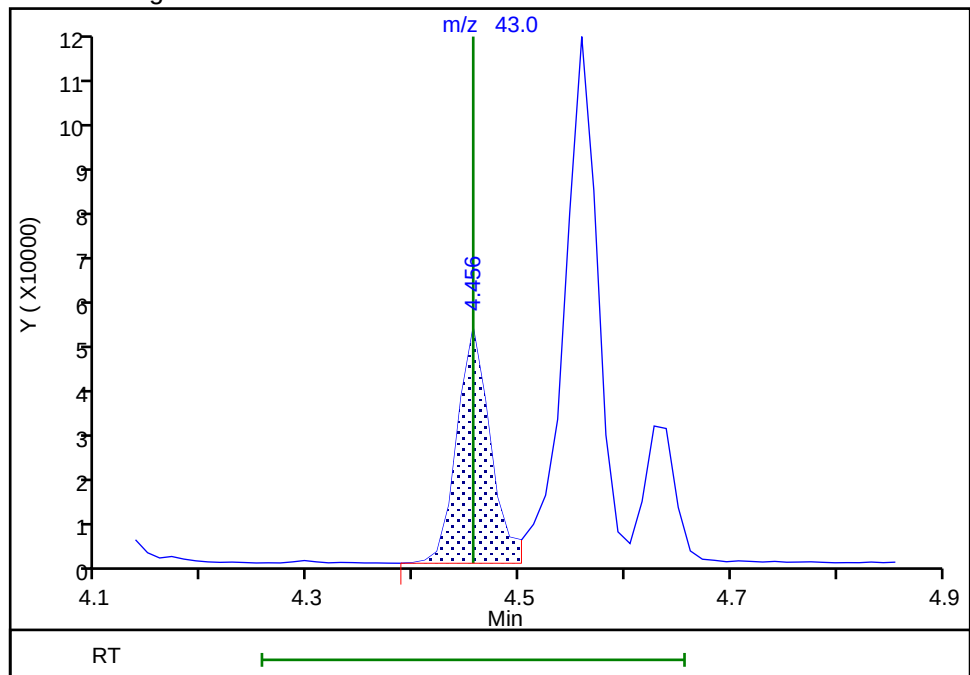
RT: 4.56  
Area: 216124  
Amount: 505.6713  
Amount Units: ug/l

## Processing Integration Results



RT: 4.46  
Area: 108056  
Amount: 512.1938  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:09:18

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75069.D

Injection Date: 20-Sep-2018 13:46:30

Instrument ID: CVOAMS8

Lims ID: STD20

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

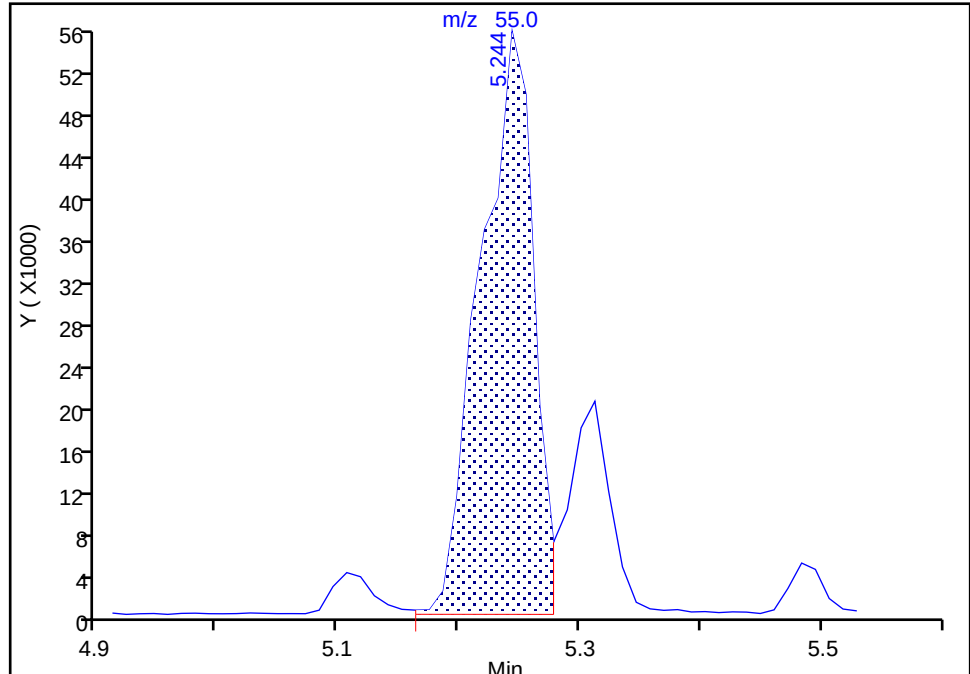
Detector: MS SCAN

**66 Ethyl acrylate, CAS: 140-88-5**

Signal: 1

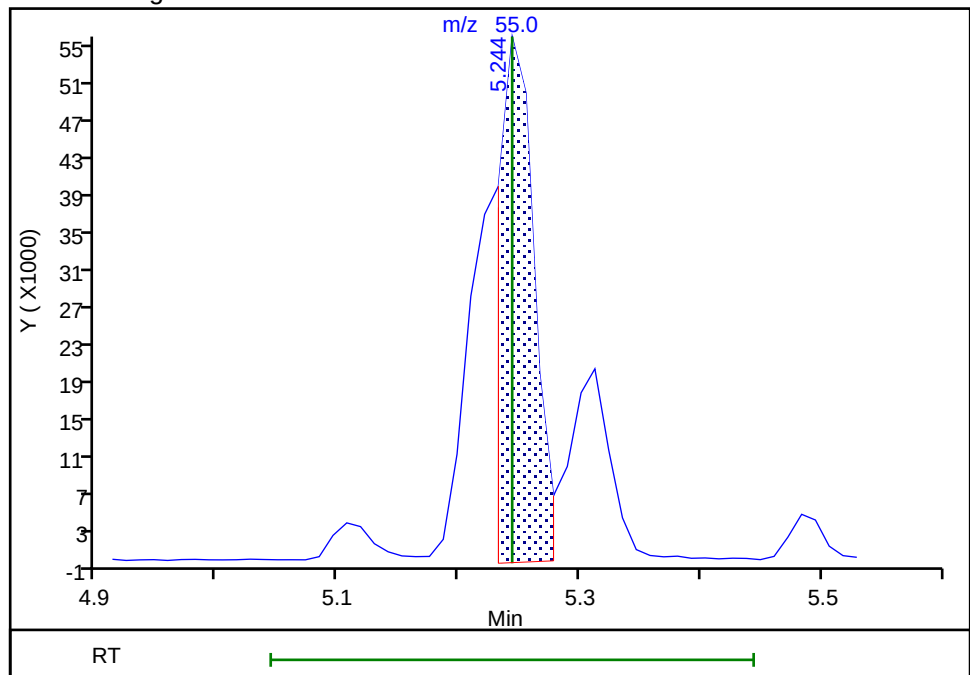
RT: 5.24  
Area: 171726  
Amount: 26.508776  
Amount Units: ug/l

## Processing Integration Results



RT: 5.24  
Area: 118114  
Amount: 20.340110  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:39:00

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75069.D

Injection Date: 20-Sep-2018 13:46:30

Instrument ID: CVOAMS8

Lims ID: STD20

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

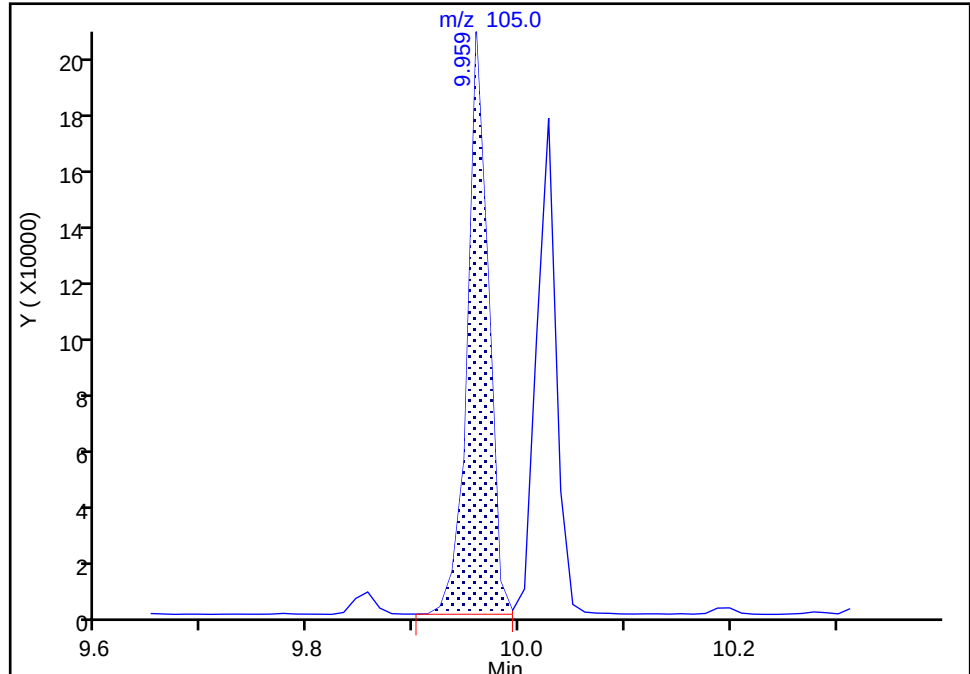
MS SCAN

**109 1,3,5-Trimethylbenzene, CAS: 108-67-8**

Signal: 1

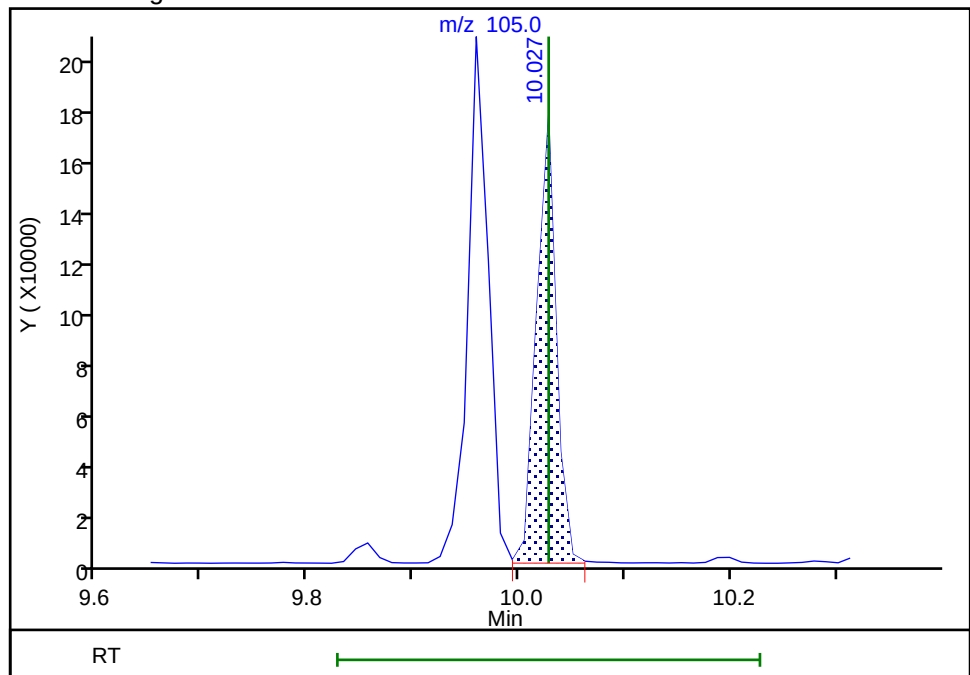
RT: 9.96  
Area: 278585  
Amount: 21.217341  
Amount Units: ug/l

## Processing Integration Results



RT: 10.03  
Area: 225088  
Amount: 21.071901  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:07:50

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75070.D  
 Lims ID: STD50  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 20-Sep-2018 14:13:30 ALS Bottle#: 6 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: STD50  
 Misc. Info.: 460-0078971-007  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 21-Sep-2018 15:39:13 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK007

First Level Reviewer: pakanatir

Date: 20-Sep-2018 17:14:39

| Compound                      | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.191     | 1.191         | 0.000         | 94  | 29978    | 50.0         | 46.6           |       |
| 2 Dichlorodifluoromethane     | 85  | 1.214     | 1.214         | 0.000         | 99  | 252633   | 50.0         | 51.8           |       |
| 3 Chloromethane               | 50  | 1.397     | 1.408         | -0.011        | 99  | 283640   | 50.0         | 49.5           |       |
| 4 Vinyl chloride              | 62  | 1.442     | 1.442         | 0.000         | 99  | 256709   | 50.0         | 48.0           |       |
| 5 Butadiene                   | 54  | 1.465     | 1.465         | 0.000         | 97  | 214216   | 50.0         | 47.6           |       |
| 6 Bromomethane                | 94  | 1.694     | 1.693         | 0.001         | 99  | 133428   | 50.0         | 53.7           |       |
| 7 Chloroethane                | 64  | 1.762     | 1.762         | 0.000         | 100 | 125553   | 50.0         | 47.7           |       |
| 8 Dichlorofluoromethane       | 67  | 1.922     | 1.922         | 0.000         | 87  | 345613   | 50.0         | 47.1           |       |
| 9 Trichlorofluoromethane      | 101 | 1.922     | 1.922         | 0.000         | 99  | 268658   | 50.0         | 50.9           |       |
| 10 Pentane                    | 72  | 1.956     | 1.956         | 0.000         | 95  | 54624    | 100.0        | 108.8          |       |
| 11 Ethanol                    | 46  | 2.105     | 2.116         | -0.011        | 74  | 49310    | 2000.0       | 1973.9         | a     |
| 12 Ethyl ether                | 59  | 2.139     | 2.138         | 0.001         | 95  | 153122   | 50.0         | 51.1           |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.150     | 2.150         | 0.000         | 96  | 189725   | 50.0         | 57.9           |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.173     | 2.173         | 0.000         | 97  | 149667   | 50.0         | 50.9           |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.276     | 2.275         | 0.001         | 97  | 174108   | 50.0         | 52.3           |       |
| 16 Acrolein                   | 56  | 2.287     | 2.287         | 0.000         | 96  | 73955    | 100.0        | 98.7           |       |
| 17 1,1-Dichloroethene         | 96  | 2.310     | 2.310         | 0.000         | 98  | 162725   | 50.0         | 49.8           |       |
| 18 Acetone                    | 43  | 2.401     | 2.401         | 0.000         | 86  | 299705   | 250.0        | 239.0          |       |
| 19 Iodomethane                | 142 | 2.447     | 2.447         | 0.000         | 97  | 273961   | 50.0         | 52.3           |       |
| 20 Carbon disulfide           | 76  | 2.481     | 2.481         | 0.000         | 99  | 640354   | 50.0         | 49.2           |       |
| 21 Isopropyl alcohol          | 45  | 2.493     | 2.492         | 0.001         | 99  | 144617   | 500.0        | 510.0          |       |
| 22 3-Chloro-1-propene         | 76  | 2.607     | 2.607         | 0.000         | 95  | 115054   | 50.0         | 52.8           |       |
| 23 Cyclopentene               | 67  | 2.618     | 2.618         | 0.000         | 94  | 512455   | 50.0         | 57.0           |       |
| 24 Methyl acetate             | 43  | 2.618     | 2.618         | 0.000         | 99  | 374507   | 100.0        | 107.7          | a     |
| 25 Acetonitrile               | 41  | 2.675     | 2.675         | 0.000         | 99  | 321540   | 500.0        | 509.2          | a     |
| 26 Methylene Chloride         | 84  | 2.721     | 2.721         | 0.000         | 97  | 206537   | 50.0         | 50.9           |       |
| * 27 TBA-d9 (IS)              | 65  | 2.732     | 2.732         | 0.000         | 0   | 348724   | 1000.0       | 1000.0         |       |
| 28 2-Methyl-2-propanol        | 59  | 2.790     | 2.801         | -0.011        | 99  | 201052   | 500.0        | 489.0          |       |
| 29 Methyl tert-butyl ether    | 73  | 2.869     | 2.869         | 0.000         | 98  | 511711   | 50.0         | 52.5           |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.892     | 2.892         | 0.000         | 96  | 185882   | 50.0         | 49.5           |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 31 Acrylonitrile                 | 53  | 2.972     | 2.972         | 0.000         | 94  | 887528   | 500.0        | 505.7          |       |
| 32 Hexane                        | 57  | 3.029     | 3.029         | 0.000         | 94  | 195540   | 50.0         | 49.8           |       |
| 33 Isopropyl ether               | 45  | 3.235     | 3.234         | 0.001         | 98  | 695820   | 50.0         | 53.0           |       |
| 34 1,1-Dichloroethane            | 63  | 3.258     | 3.257         | 0.001         | 99  | 361369   | 50.0         | 50.1           |       |
| 35 Vinyl acetate                 | 43  | 3.280     | 3.280         | 0.000         | 100 | 779081   | 100.0        | 99.3           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.303     | 3.303         | 0.000         | 91  | 173608   | 50.0         | 51.5           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.532     | 3.531         | 0.001         | 88  | 585992   | 50.0         | 53.2           |       |
| 38 2,2-Dichloropropane           | 79  | 3.726     | 3.725         | 0.001         | 95  | 87220    | 50.0         | 51.6           |       |
| * 39 2-Butanone-d5               | 46  | 3.726     | 3.725         | 0.001         | 0   | 483435   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.760     | 3.760         | 0.000         | 98  | 218472   | 50.0         | 50.6           |       |
| 42 Ethyl acetate                 | 70  | 3.783     | 3.782         | 0.001         | 95  | 48393    | 100.0        | 99.1           |       |
| 41 2-Butanone (MEK)              | 72  | 3.783     | 3.782         | 0.001         | 95  | 123845   | 250.0        | 247.8          |       |
| 43 Methyl acrylate               | 55  | 3.828     | 3.828         | 0.000         | 99  | 205274   | 50.0         | 51.1           |       |
| 44 Propionitrile                 | 54  | 3.908     | 3.908         | 0.000         | 98  | 350402   | 500.0        | 505.6          |       |
| 46 Chlorobromomethane            | 128 | 3.977     | 3.977         | 0.000         | 93  | 105476   | 50.0         | 50.0           |       |
| 45 Tetrahydrofuran               | 72  | 3.977     | 3.977         | 0.000         | 76  | 54280    | 100.0        | 106.5          |       |
| 47 Methacrylonitrile             | 67  | 4.000     | 3.999         | 0.001         | 94  | 936902   | 500.0        | 547.3          |       |
| 48 Chloroform                    | 83  | 4.023     | 4.022         | 0.001         | 98  | 332662   | 50.0         | 50.3           |       |
| 49 Cyclohexane                   | 84  | 4.125     | 4.125         | 0.000         | 95  | 236490   | 50.0         | 54.5           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.148     | 4.148         | 0.000         | 99  | 270139   | 50.0         | 51.2           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.171     | 4.171         | 0.000         | 97  | 168460   | 50.0         | 49.1           |       |
| 52 Carbon tetrachloride          | 117 | 4.262     | 4.262         | 0.000         | 99  | 235709   | 50.0         | 51.0           |       |
| 53 1,1-Dichloropropene           | 75  | 4.297     | 4.296         | 0.001         | 97  | 246312   | 50.0         | 52.0           |       |
| 54 Isooctane                     | 57  | 4.445     | 4.445         | 0.000         | 94  | 353627   | 50.0         | 54.7           |       |
| 58 Isobutyl alcohol              | 43  | 4.456     | 4.456         | 0.000         | 93  | 292583   | 1250.0       | 1332.4         | a     |
| 55 Benzene                       | 78  | 4.491     | 4.490         | 0.001         | 97  | 773701   | 50.0         | 51.6           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.514     | 4.513         | 0.001         | 0   | 182491   | 50.0         | 48.7           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.559     | 4.559         | 0.000         | 75  | 158751   | 50.0         | 52.5           |       |
| 59 Isopropyl acetate             | 43  | 4.559     | 4.559         | 0.000         | 94  | 601747   | 50.0         | 55.0           |       |
| 60 1,2-Dichloroethane            | 62  | 4.582     | 4.582         | 0.000         | 96  | 251884   | 50.0         | 49.8           |       |
| 61 n-Heptane                     | 57  | 4.639     | 4.639         | 0.000         | 96  | 77851    | 50.0         | 52.2           |       |
| * 62 Fluorobenzene               | 96  | 4.765     | 4.764         | 0.001         | 99  | 636854   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.107     | 5.107         | 0.000         | 93  | 133352   | 1250.0       | 1354.6         |       |
| 64 Trichloroethene               | 95  | 5.107     | 5.118         | -0.011        | 98  | 193734   | 50.0         | 51.7           |       |
| 65 Methylcyclohexane             | 83  | 5.221     | 5.221         | 0.000         | 90  | 236951   | 50.0         | 52.4           |       |
| 66 Ethyl acrylate                | 55  | 5.244     | 5.244         | 0.000         | 98  | 336135   | 50.0         | 56.3           | M     |
| 67 1,2-Dichloropropane           | 63  | 5.393     | 5.392         | 0.001         | 93  | 211159   | 50.0         | 51.6           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.473     | 5.472         | 0.001         | 0   | 42584    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.484     | 5.484         | 0.000         | 93  | 101992   | 100.0        | 110.9          |       |
| 70 1,4-Dioxane                   | 88  | 5.518     | 5.529         | -0.011        | 47  | 51482    | 1000.0       | 971.0          |       |
| 71 Dibromomethane                | 93  | 5.530     | 5.529         | 0.001         | 98  | 138113   | 50.0         | 50.7           |       |
| 72 n-Propyl acetate              | 43  | 5.541     | 5.541         | 0.000         | 98  | 339347   | 50.0         | 54.5           |       |
| 73 Dichlorobromomethane          | 83  | 5.678     | 5.678         | 0.000         | 99  | 270798   | 50.0         | 51.5           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.021     | 6.020         | 0.001         | 73  | 130019   | 50.0         | 47.0           |       |
| 74 2-Nitropropane                | 41  | 6.021     | 6.020         | 0.001         | 80  | 105360   | 100.0        | 95.5           |       |
| 76 Epichlorohydrin               | 57  | 6.123     | 6.123         | 0.000         | 100 | 435712   | 1000.0       | 1093.8         |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.169     | 6.169         | 0.000         | 93  | 321329   | 50.0         | 53.6           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.340     | 6.340         | 0.000         | 97  | 1084574  | 250.0        | 262.6          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.397     | 6.408         | -0.011        | 99  | 596458   | 50.0         | 49.6           |       |
| 80 Toluene                       | 91  | 6.477     | 6.477         | 0.000         | 94  | 779425   | 50.0         | 50.9           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.843     | 6.842         | 0.001         | 99  | 281518   | 50.0         | 51.7           |       |
| 82 Ethyl methacrylate            | 69  | 6.877     | 6.876         | 0.001         | 92  | 240011   | 50.0         | 46.4           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 83 1,1,2-Trichloroethane        | 83  | 7.059     | 7.059         | 0.000         | 96  | 166600   | 50.0         | 49.6           |       |
| 84 Tetrachloroethene            | 166 | 7.082     | 7.082         | 0.000         | 99  | 196430   | 50.0         | 51.0           |       |
| 85 1,3-Dichloropropane          | 76  | 7.265     | 7.265         | 0.000         | 96  | 298942   | 50.0         | 52.0           |       |
| 86 2-Hexanone                   | 58  | 7.333     | 7.333         | 0.000         | 98  | 399013   | 250.0        | 273.3          |       |
| 87 n-Butyl acetate              | 43  | 7.448     | 7.447         | 0.001         | 99  | 345424   | 50.0         | 53.9           |       |
| 88 Chlorodibromomethane         | 129 | 7.493     | 7.493         | 0.000         | 98  | 216490   | 50.0         | 51.1           |       |
| 89 Ethylene Dibromide           | 107 | 7.630     | 7.630         | 0.000         | 99  | 193706   | 50.0         | 50.5           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.178     | 8.178         | 0.000         | 86  | 503885   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.213     | 8.212         | 0.001         | 96  | 518207   | 50.0         | 50.5           |       |
| 92 Ethylbenzene                 | 106 | 8.315     | 8.315         | 0.000         | 99  | 259926   | 50.0         | 52.9           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.338     | 8.338         | 0.000         | 97  | 186427   | 50.0         | 49.6           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.475     | 8.475         | 0.000         | 0   | 310250   | 50.0         | 51.7           |       |
| 95 n-Butyl acrylate             | 73  | 9.012     | 9.011         | 0.001         | 96  | 156859   | 50.0         | 47.6           |       |
| 96 o-Xylene                     | 106 | 9.000     | 9.011         | -0.011        | 94  | 307534   | 50.0         | 51.7           |       |
| 97 Styrene                      | 104 | 9.046     | 9.046         | 0.000         | 95  | 560234   | 50.0         | 52.1           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.297     | 9.297         | 0.000         | 88  | 376851   | 50.0         | 50.1           |       |
| 99 Bromoform                    | 173 | 9.297     | 9.297         | 0.000         | 97  | 155780   | 50.0         | 51.4           |       |
| 100 Isopropylbenzene            | 105 | 9.434     | 9.434         | 0.000         | 96  | 762626   | 50.0         | 53.6           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.651     | 9.651         | 0.000         | 96  | 194331   | 50.0         | 51.2           |       |
| 102 Bromobenzene                | 156 | 9.777     | 9.776         | 0.001         | 95  | 227034   | 50.0         | 50.4           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.845     | 9.845         | 0.000         | 99  | 275988   | 50.0         | 50.8           |       |
| 104 N-Propylbenzene             | 91  | 9.857     | 9.856         | 0.001         | 99  | 900562   | 50.0         | 56.3           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.879     | 9.879         | 0.000         | 98  | 66090    | 50.0         | 49.9           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.902     | 9.902         | 0.000         | 83  | 72585    | 50.0         | 51.2           |       |
| 107 2-Chlorotoluene             | 91  | 9.948     | 9.948         | 0.000         | 98  | 646879   | 50.0         | 53.7           |       |
| 108 4-Ethyltoluene              | 105 | 9.959     | 9.959         | 0.000         | 98  | 773325   | 50.0         | 56.7           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.028    | 10.027        | 0.001         | 93  | 635834   | 50.0         | 57.1           | a     |
| 110 4-Chlorotoluene             | 91  | 10.062    | 10.062        | 0.000         | 96  | 633825   | 50.0         | 55.1           |       |
| 111 Butyl Methacrylate          | 87  | 10.131    | 10.130        | 0.001         | 91  | 261389   | 50.0         | 48.6           |       |
| 112 tert-Butylbenzene           | 119 | 10.279    | 10.279        | 0.000         | 94  | 489842   | 50.0         | 56.1           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.336    | 10.336        | 0.000         | 97  | 678810   | 50.0         | 53.4           |       |
| 114 sec-Butylbenzene            | 105 | 10.450    | 10.461        | -0.011        | 99  | 697145   | 50.0         | 57.1           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.564    | 10.564        | 0.000         | 85  | 420989   | 50.0         | 52.5           |       |
| 115 4-Isopropyltoluene          | 119 | 10.564    | 10.564        | 0.000         | 97  | 603987   | 50.0         | 45.5           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.621    | 10.621        | 0.000         | 94  | 283767   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.644    | 10.644        | 0.000         | 96  | 417945   | 50.0         | 48.8           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.656    | 10.655        | 0.001         | 98  | 733076   | 50.0         | 54.3           |       |
| 119 Benzyl chloride             | 91  | 10.747    | 10.747        | 0.000         | 99  | 484614   | 50.0         | 53.8           |       |
| 120 2,3-Dihydroindene           | 117 | 10.793    | 10.792        | 0.001         | 95  | 782500   | 50.0         | 57.1           |       |
| 121 p-Diethylbenzene            | 119 | 10.838    | 10.838        | 0.000         | 93  | 332552   | 50.0         | 55.7           |       |
| 122 n-Butylbenzene              | 92  | 10.861    | 10.861        | 0.000         | 98  | 308194   | 50.0         | 55.0           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.907    | 10.907        | 0.000         | 98  | 411850   | 50.0         | 52.2           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.341    | 11.340        | 0.001         | 98  | 584711   | 50.0         | 45.7           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.421    | 11.420        | 0.001         | 94  | 44820    | 50.0         | 52.9           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.501    | 11.500        | 0.001         | 98  | 259929   | 50.0         | 52.5           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.877    | 11.877        | 0.000         | 94  | 242682   | 50.0         | 51.3           |       |
| 128 Hexachlorobutadiene         | 225 | 11.934    | 11.934        | 0.000         | 95  | 83659    | 50.0         | 53.1           |       |
| 129 Naphthalene                 | 128 | 12.037    | 12.025        | 0.012         | 100 | 677604   | 50.0         | 54.7           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.186    | 12.185        | 0.001         | 95  | 216811   | 50.0         | 50.3           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 100.0        | 100.1          |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 100.0        | 103.4          |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 250.0        | 258.7          |       |

**QC Flag Legend**

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

|                   |                     |           |             |
|-------------------|---------------------|-----------|-------------|
| Ethanol mix_00019 | Amount Added: 5.00  | Units: uL |             |
| MIX 2 Hi_00074    | Amount Added: 5.00  | Units: uL |             |
| MIX I Hi_00097    | Amount Added: 5.00  | Units: uL |             |
| GAS Hi_00272      | Amount Added: 5.00  | Units: uL |             |
| ACROLEIN W_00080  | Amount Added: 10.00 | Units: uL |             |
| 8260ISNEW_00119   | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00181 | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75070.D

Injection Date: 20-Sep-2018 14:13:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD50

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

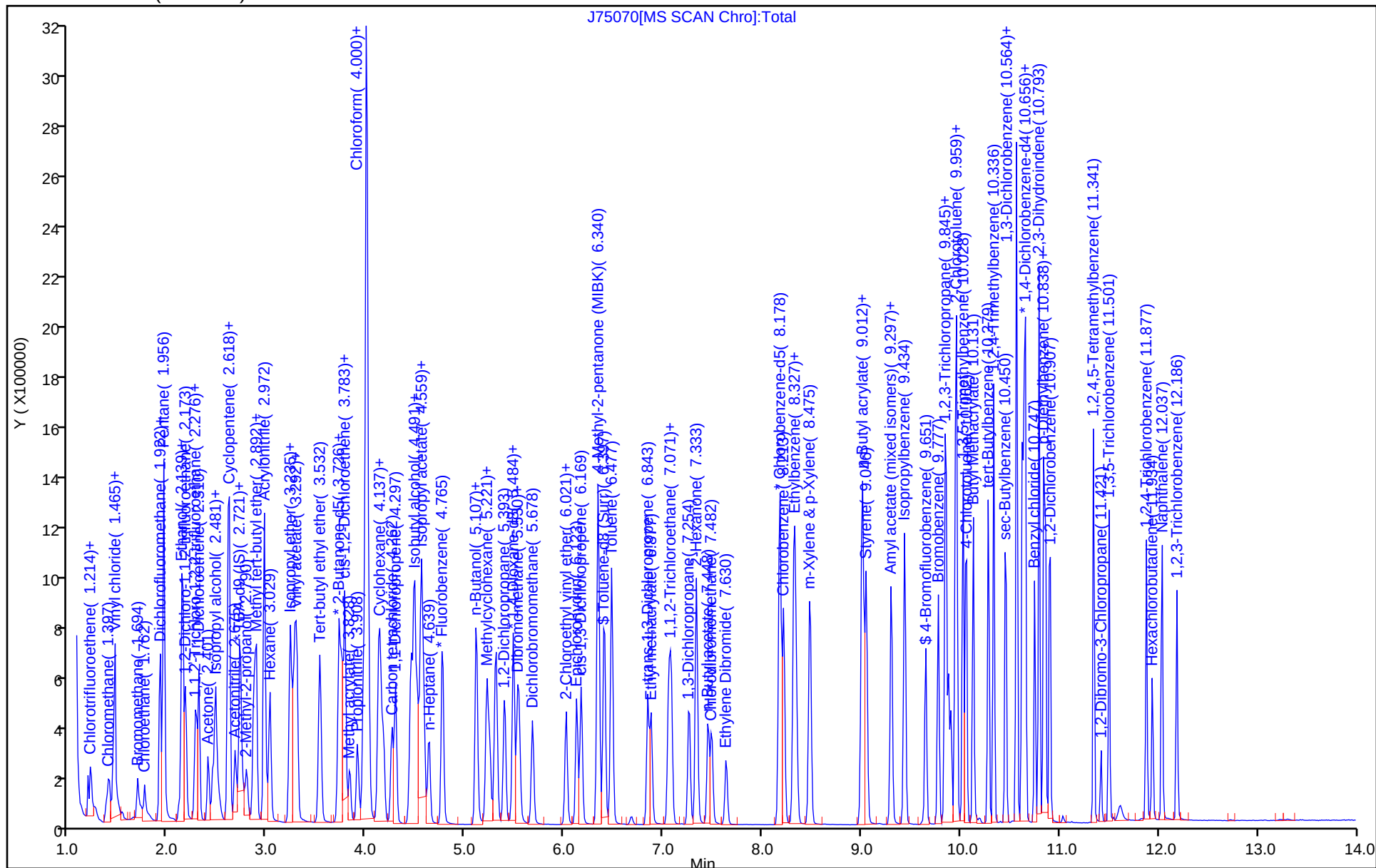
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75070.D

Injection Date: 20-Sep-2018 14:13:30

Instrument ID: CVOAMS8

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

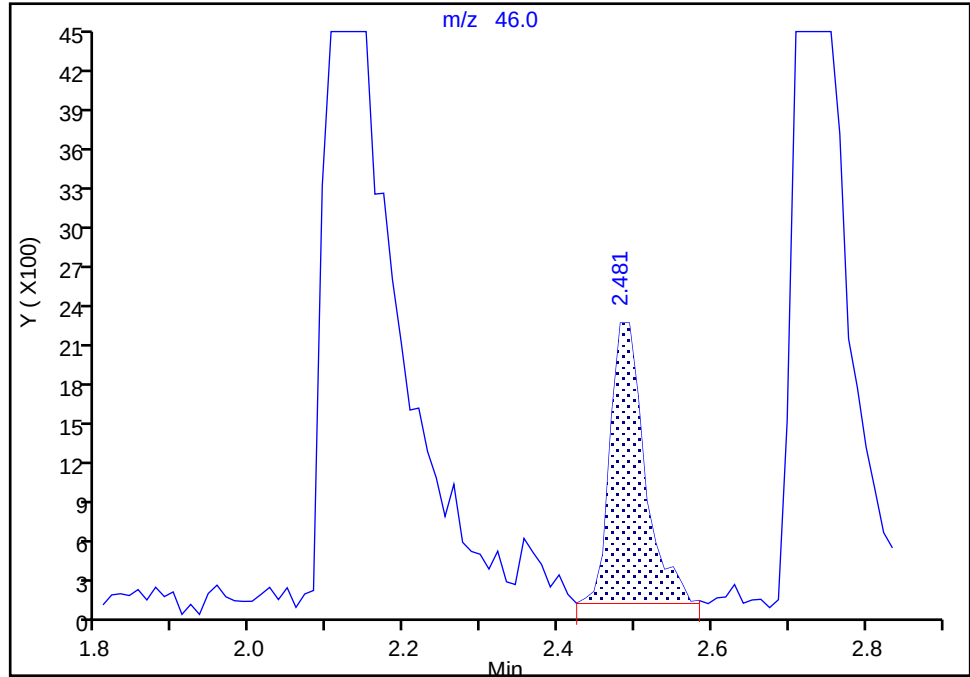
Detector: MS SCAN

**11 Ethanol, CAS: 64-17-5**

Signal: 1

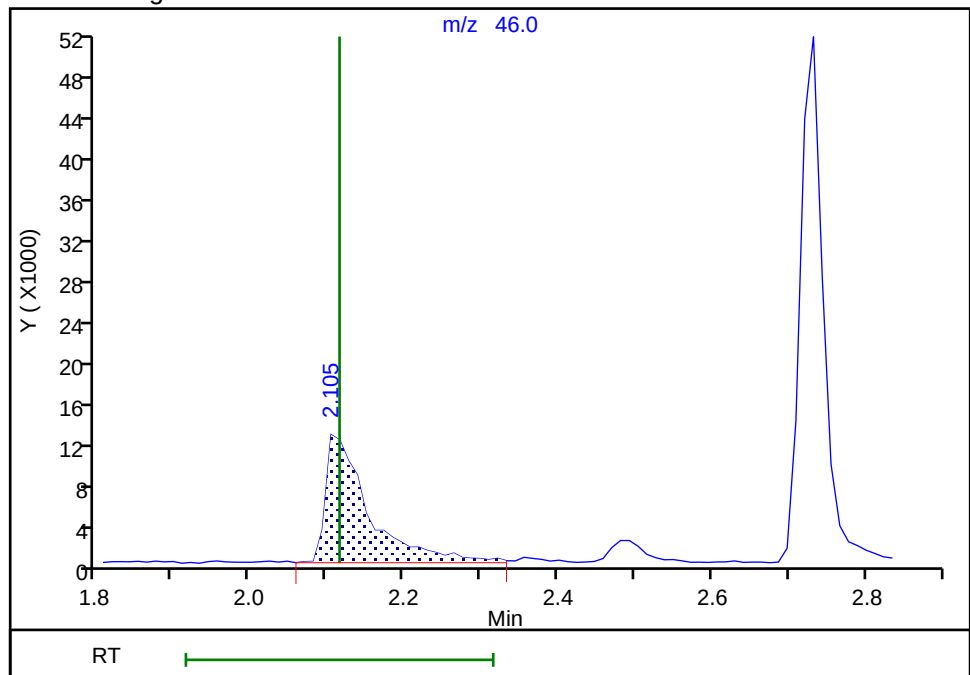
RT: 2.48  
Area: 6762  
Amount: 613.4956  
Amount Units: ug/l

## Processing Integration Results



RT: 2.10  
Area: 49310  
Amount: 1973.8581  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:40:37

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75070.D

Injection Date: 20-Sep-2018 14:13:30

Instrument ID: CVOAMS8

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

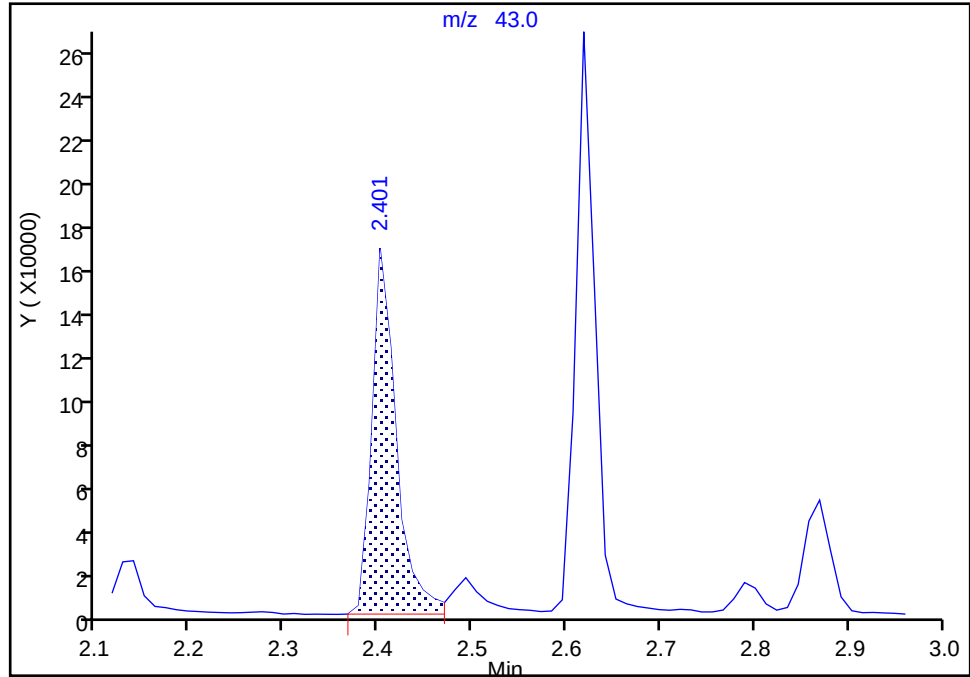
Detector: MS SCAN

**24 Methyl acetate, CAS: 79-20-9**

Signal: 1

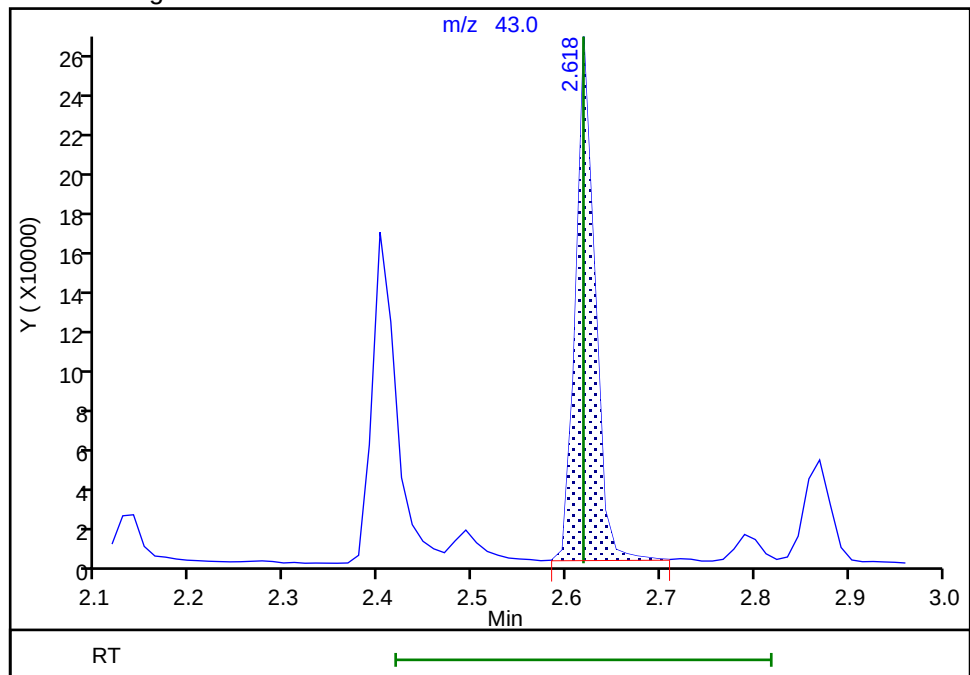
RT: 2.40  
Area: 299705  
Amount: 103.4308  
Amount Units: ug/l

## Processing Integration Results



RT: 2.62  
Area: 374507  
Amount: 107.6570  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:11:46

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75070.D

Injection Date: 20-Sep-2018 14:13:30

Instrument ID: CVOAMS8

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

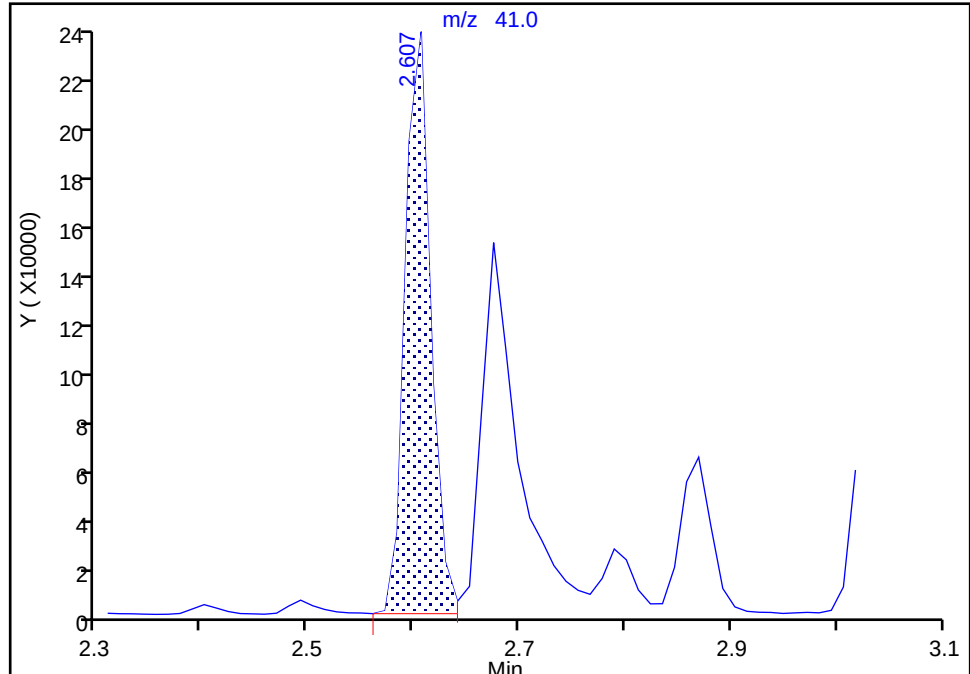
MS SCAN

**25 Acetonitrile, CAS: 75-05-8**

Signal: 1

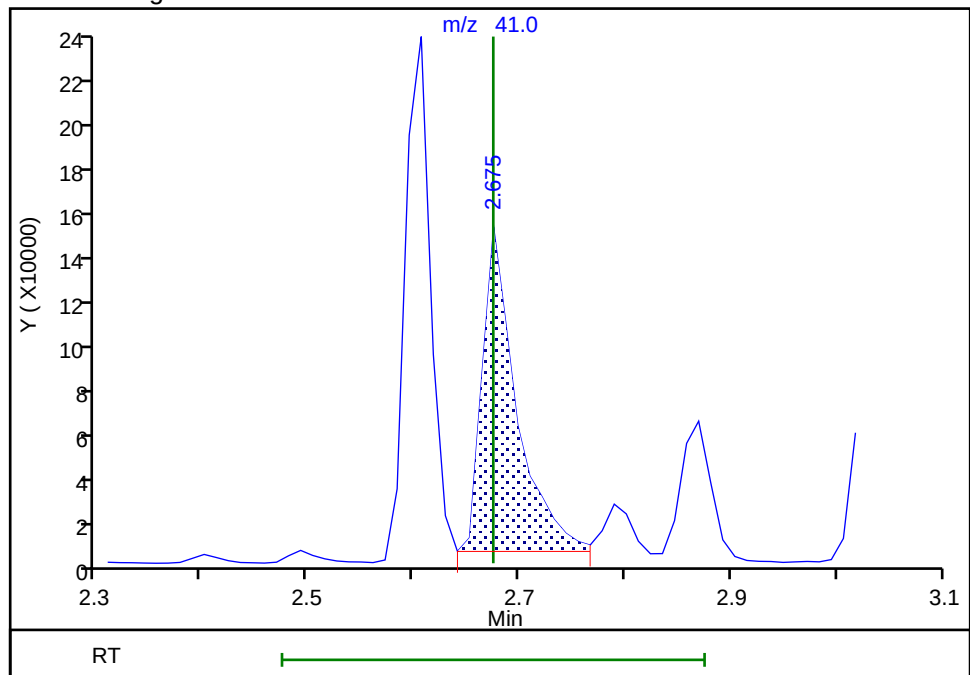
RT: 2.61  
Area: 392588  
Amount: 547.7321  
Amount Units: ug/l

## Processing Integration Results



RT: 2.68  
Area: 321540  
Amount: 509.2248  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:12:42

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75070.D

Injection Date: 20-Sep-2018 14:13:30

Instrument ID: CVOAMS8

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

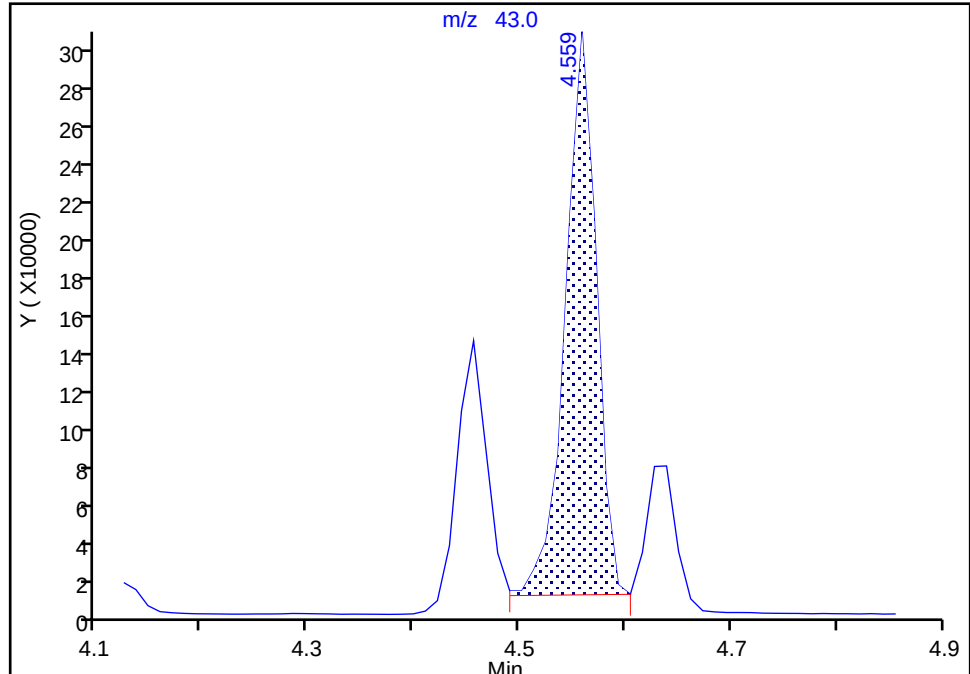
Detector: MS SCAN

**58 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

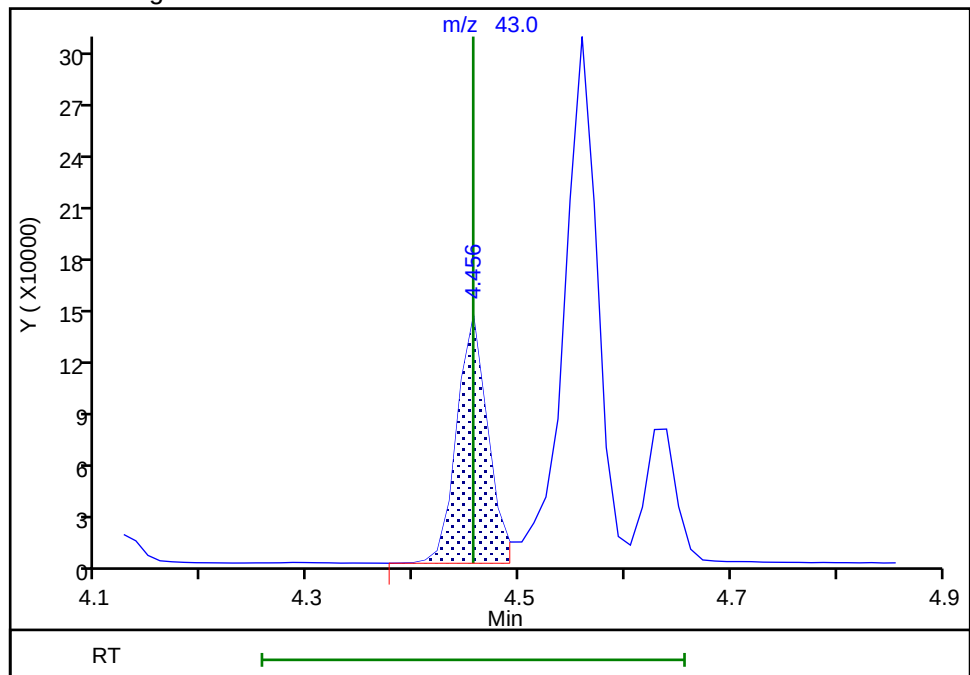
RT: 4.56  
Area: 599829  
Amount: 1159.6799  
Amount Units: ug/l

## Processing Integration Results



RT: 4.46  
Area: 292583  
Amount: 1332.3697  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:13:23

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75070.D

Injection Date: 20-Sep-2018 14:13:30

Instrument ID: CVOAMS8

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

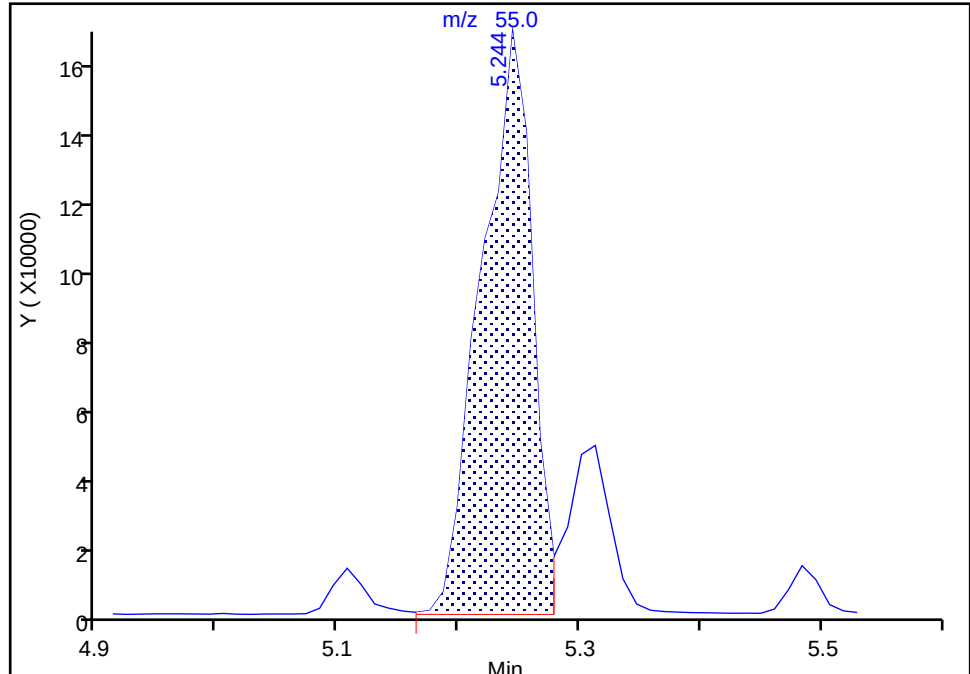
MS SCAN

**66 Ethyl acrylate, CAS: 140-88-5**

Signal: 1

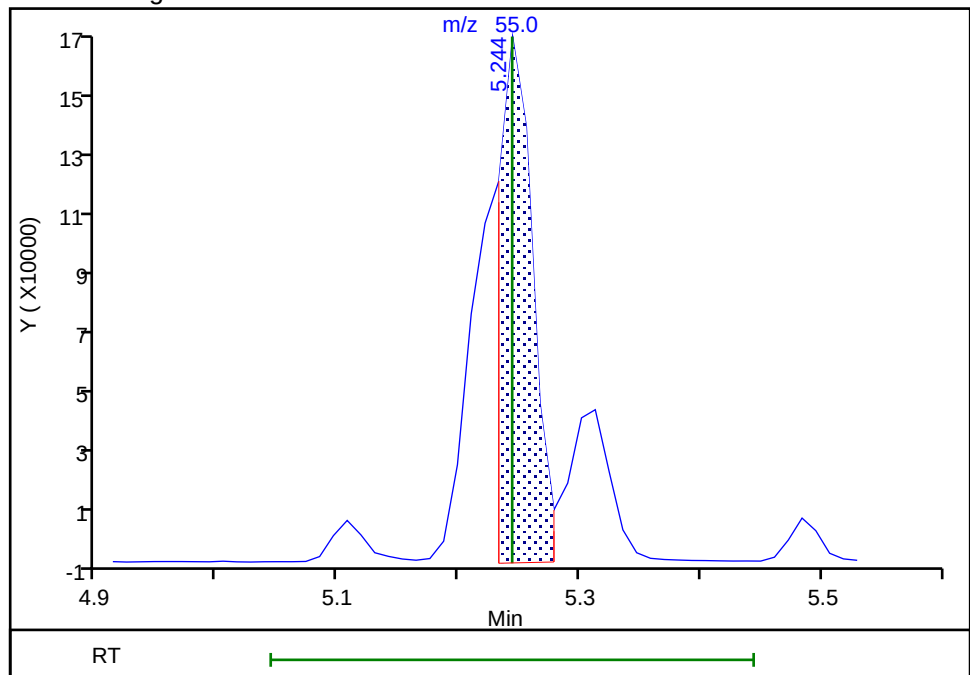
RT: 5.24  
Area: 489279  
Amount: 78.881080  
Amount Units: ug/l

## Processing Integration Results



RT: 5.24  
Area: 336135  
Amount: 56.285158  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:41:13

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75070.D

Injection Date: 20-Sep-2018 14:13:30

Instrument ID: CVOAMS8

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

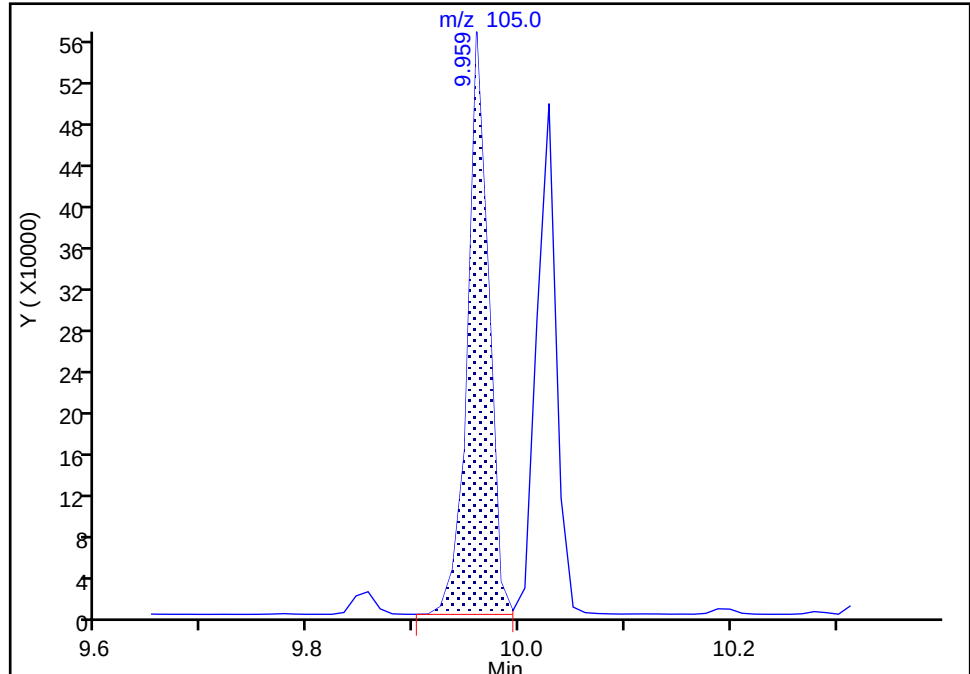
MS SCAN

**109 1,3,5-Trimethylbenzene, CAS: 108-67-8**

Signal: 1

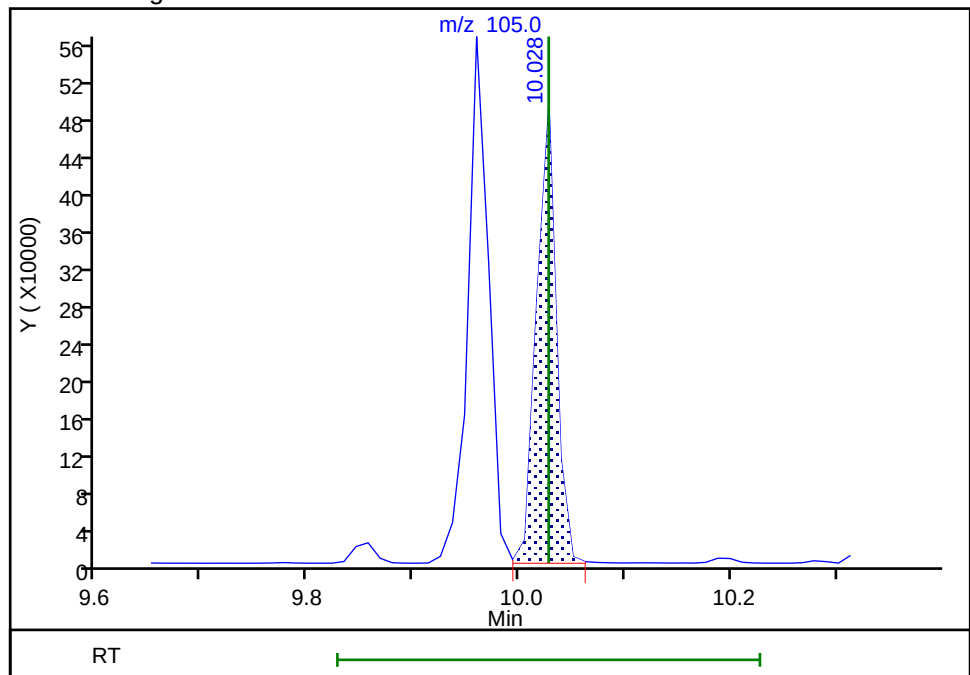
RT: 9.96  
Area: 773325  
Amount: 58.435534  
Amount Units: ug/l

## Processing Integration Results



RT: 10.03  
Area: 635834  
Amount: 57.052542  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:14:23

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75071.D  
 Lims ID: STD200  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 20-Sep-2018 14:39:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: STD200  
 Misc. Info.: 460-0078971-008  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 21-Sep-2018 15:39:32 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK007

First Level Reviewer: pakanatir

Date: 20-Sep-2018 17:25:59

| Compound                      | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.191     | 1.191         | 0.000         | 96  | 125102   | 200.0        | 184.2          |       |
| 2 Dichlorodifluoromethane     | 85  | 1.213     | 1.214         | -0.001        | 100 | 1087770  | 200.0        | 211.6          |       |
| 3 Chloromethane               | 50  | 1.396     | 1.408         | -0.012        | 99  | 1246640  | 200.0        | 206.2          |       |
| 4 Vinyl chloride              | 62  | 1.442     | 1.442         | 0.000         | 98  | 1120482  | 200.0        | 198.7          |       |
| 5 Butadiene                   | 54  | 1.465     | 1.465         | 0.000         | 98  | 1060600  | 200.0        | 223.3          |       |
| 6 Bromomethane                | 94  | 1.693     | 1.693         | 0.000         | 99  | 550045   | 200.0        | 212.3          |       |
| 7 Chloroethane                | 64  | 1.761     | 1.762         | -0.001        | 100 | 552722   | 200.0        | 199.3          |       |
| 9 Trichlorofluoromethane      | 101 | 1.921     | 1.922         | -0.001        | 75  | 896867   | 200.0        | 161.1          |       |
| 8 Dichlorofluoromethane       | 67  | 1.921     | 1.922         | -0.001        | 97  | 1526546  | 200.0        | 197.2          |       |
| 10 Pentane                    | 72  | 1.955     | 1.956         | -0.001        | 96  | 217412   | 400.0        | 438.2          |       |
| 11 Ethanol                    | 46  | 2.115     | 2.116         | -0.001        | 97  | 184400   | 8000.0       | 7469.6         | a     |
| 12 Ethyl ether                | 59  | 2.138     | 2.138         | 0.000         | 93  | 637657   | 200.0        | 201.8          |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.150     | 2.150         | 0.000         | 95  | 759698   | 200.0        | 219.8          |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.172     | 2.173         | -0.001        | 97  | 606330   | 200.0        | 195.7          |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.275     | 2.275         | 0.000         | 97  | 710733   | 200.0        | 202.5          |       |
| 16 Acrolein                   | 56  | 2.287     | 2.287         | 0.000         | 95  | 157886   | 200.0        | 213.1          |       |
| 17 1,1-Dichloroethene         | 96  | 2.309     | 2.310         | -0.001        | 98  | 699519   | 200.0        | 203.1          |       |
| 18 Acetone                    | 43  | 2.401     | 2.401         | 0.000         | 86  | 1173513  | 1000.0       | 935.4          |       |
| 19 Iodomethane                | 142 | 2.446     | 2.447         | -0.001        | 98  | 1239282  | 200.0        | 224.4          |       |
| 20 Carbon disulfide           | 76  | 2.481     | 2.481         | 0.000         | 99  | 2623396  | 200.0        | 191.0          |       |
| 21 Isopropyl alcohol          | 45  | 2.492     | 2.492         | 0.000         | 99  | 531363   | 2000.0       | 1896.2         |       |
| 22 3-Chloro-1-propene         | 76  | 2.606     | 2.607         | -0.001        | 93  | 397013   | 200.0        | 172.7          |       |
| 24 Methyl acetate             | 43  | 2.618     | 2.618         | 0.000         | 100 | 1429037  | 400.0        | 389.6          | a     |
| 23 Cyclopentene               | 67  | 2.618     | 2.618         | 0.000         | 95  | 2035701  | 200.0        | 214.6          |       |
| 25 Acetonitrile               | 41  | 2.675     | 2.675         | 0.000         | 98  | 1212588  | 2000.0       | 1943.3         | a     |
| 26 Methylene Chloride         | 84  | 2.720     | 2.721         | -0.001        | 96  | 859748   | 200.0        | 202.5          |       |
| * 27 TBA-d9 (IS)              | 65  | 2.732     | 2.732         | 0.000         | 0   | 344608   | 1000.0       | 1000.0         |       |
| 28 2-Methyl-2-propanol        | 59  | 2.789     | 2.801         | -0.012        | 99  | 803023   | 2000.0       | 1976.4         |       |
| 29 Methyl tert-butyl ether    | 73  | 2.869     | 2.869         | 0.000         | 98  | 2134213  | 200.0        | 207.5          |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.892     | 2.892         | 0.000         | 96  | 775805   | 200.0        | 195.9          |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 31 Acrylonitrile                 | 53  | 2.972     | 2.972         | 0.000         | 94  | 3500588  | 2000.0       | 2018.5         |       |
| 32 Hexane                        | 57  | 3.029     | 3.029         | 0.000         | 94  | 837693   | 200.0        | 202.2          |       |
| 33 Isopropyl ether               | 45  | 3.234     | 3.234         | 0.000         | 98  | 2880971  | 200.0        | 207.9          |       |
| 34 1,1-Dichloroethane            | 63  | 3.268     | 3.257         | 0.011         | 100 | 1505531  | 200.0        | 197.9          |       |
| 35 Vinyl acetate                 | 43  | 3.280     | 3.280         | 0.000         | 100 | 3101862  | 400.0        | 374.8          |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.303     | 3.303         | 0.000         | 91  | 724552   | 200.0        | 203.7          |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.531     | 3.531         | 0.000         | 88  | 2442622  | 200.0        | 210.3          |       |
| * 39 2-Butanone-d5               | 46  | 3.736     | 3.725         | 0.011         | 0   | 483661   | 250.0        | 250.0          |       |
| 38 2,2-Dichloropropane           | 79  | 3.725     | 3.725         | 0.000         | 95  | 359106   | 200.0        | 203.2          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.759     | 3.760         | -0.001        | 98  | 912754   | 200.0        | 200.6          |       |
| 41 2-Butanone (MEK)              | 72  | 3.782     | 3.782         | 0.000         | 95  | 477446   | 1000.0       | 954.9          |       |
| 42 Ethyl acetate                 | 70  | 3.782     | 3.782         | 0.000         | 95  | 189042   | 400.0        | 386.9          |       |
| 43 Methyl acrylate               | 55  | 3.839     | 3.828         | 0.011         | 100 | 832598   | 200.0        | 196.5          |       |
| 44 Propionitrile                 | 54  | 3.919     | 3.908         | 0.011         | 99  | 1365636  | 2000.0       | 1994.1         |       |
| 45 Tetrahydrofuran               | 72  | 3.976     | 3.977         | -0.001        | 78  | 216900   | 400.0        | 425.3          |       |
| 46 Chlorobromomethane            | 128 | 3.976     | 3.977         | -0.001        | 94  | 447828   | 200.0        | 201.1          |       |
| 47 Methacrylonitrile             | 67  | 4.010     | 3.999         | 0.011         | 93  | 3711946  | 2000.0       | 2056.4         |       |
| 48 Chloroform                    | 83  | 4.033     | 4.022         | 0.011         | 99  | 1418632  | 200.0        | 203.6          |       |
| 49 Cyclohexane                   | 84  | 4.125     | 4.125         | 0.000         | 94  | 1036985  | 200.0        | 226.7          |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.147     | 4.148         | -0.001        | 99  | 1141603  | 200.0        | 205.3          |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.182     | 4.171         | 0.011         | 96  | 177912   | 50.0         | 49.2           |       |
| 52 Carbon tetrachloride          | 117 | 4.262     | 4.262         | 0.000         | 98  | 970691   | 200.0        | 199.2          |       |
| 53 1,1-Dichloropropene           | 75  | 4.296     | 4.296         | 0.000         | 97  | 1052757  | 200.0        | 211.0          |       |
| 54 Isooctane                     | 57  | 4.444     | 4.445         | -0.001        | 96  | 1492638  | 200.0        | 219.0          |       |
| 58 Isobutyl alcohol              | 43  | 4.456     | 4.456         | 0.000         | 92  | 1232932  | 5000.0       | 5681.6         | a     |
| 55 Benzene                       | 78  | 4.490     | 4.490         | 0.000         | 96  | 3228005  | 200.0        | 197.8          |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513     | 4.513         | 0.000         | 0   | 193995   | 50.0         | 49.1           |       |
| 59 Isopropyl acetate             | 43  | 4.558     | 4.559         | -0.001        | 95  | 2499835  | 200.0        | 216.7          |       |
| 57 Tert-amyl methyl ether        | 87  | 4.558     | 4.559         | -0.001        | 85  | 664714   | 200.0        | 207.2          |       |
| 60 1,2-Dichloroethane            | 62  | 4.581     | 4.582         | -0.001        | 96  | 1025778  | 200.0        | 192.2          |       |
| 61 n-Heptane                     | 57  | 4.638     | 4.639         | -0.001        | 95  | 327707   | 200.0        | 208.3          |       |
| * 62 Fluorobenzene               | 96  | 4.775     | 4.764         | 0.011         | 99  | 671558   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.106     | 5.107         | -0.001        | 88  | 569477   | 5000.0       | 5853.9         |       |
| 64 Trichloroethene               | 95  | 5.118     | 5.118         | 0.000         | 99  | 825596   | 200.0        | 209.1          |       |
| 65 Methylcyclohexane             | 83  | 5.221     | 5.221         | 0.000         | 92  | 1033068  | 200.0        | 215.1          |       |
| 66 Ethyl acrylate                | 55  | 5.243     | 5.244         | -0.001        | 97  | 1408783  | 200.0        | 223.7          | M     |
| 67 1,2-Dichloropropane           | 63  | 5.392     | 5.392         | 0.000         | 92  | 889723   | 200.0        | 206.1          |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472     | 5.472         | 0.000         | 0   | 46647    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.483     | 5.484         | -0.001        | 93  | 420585   | 400.0        | 433.8          |       |
| 71 Dibromomethane                | 93  | 5.529     | 5.529         | 0.000         | 98  | 573958   | 200.0        | 199.8          |       |
| 70 1,4-Dioxane                   | 88  | 5.529     | 5.529         | 0.000         | 35  | 208502   | 4000.0       | 3590.2         |       |
| 72 n-Propyl acetate              | 43  | 5.540     | 5.541         | -0.001        | 98  | 1336965  | 200.0        | 203.5          |       |
| 73 Dichlorobromomethane          | 83  | 5.677     | 5.678         | -0.001        | 99  | 1146968  | 200.0        | 206.9          |       |
| 74 2-Nitropropane                | 41  | 6.020     | 6.020         | 0.000         | 79  | 430751   | 400.0        | 395.3          |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.020     | 6.020         | 0.000         | 75  | 585750   | 200.0        | 201.9          |       |
| 76 Epichlorohydrin               | 57  | 6.123     | 6.123         | 0.000         | 100 | 1783303  | 4000.0       | 4474.8         |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.168     | 6.169         | -0.001        | 93  | 1386253  | 200.0        | 212.8          |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.339     | 6.340         | -0.001        | 97  | 4394912  | 1000.0       | 1058.0         |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.408     | 6.408         | 0.000         | 99  | 637764   | 50.0         | 48.8           |       |
| 80 Toluene                       | 91  | 6.477     | 6.477         | -0.001        | 94  | 3354463  | 200.0        | 201.4          |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.842     | 6.842         | 0.000         | 98  | 1273892  | 200.0        | 214.9          |       |
| 82 Ethyl methacrylate            | 69  | 6.876     | 6.876         | 0.000         | 91  | 1078498  | 200.0        | 202.2          |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 83 1,1,2-Trichloroethane        | 83  | 7.059     | 7.059         | 0.000         | 98 | 722676   | 200.0        | 197.7          |       |
| 84 Tetrachloroethene            | 166 | 7.082     | 7.082         | 0.000         | 99 | 860801   | 200.0        | 205.6          |       |
| 85 1,3-Dichloropropane          | 76  | 7.264     | 7.265         | -0.001        | 96 | 1293165  | 200.0        | 206.9          |       |
| 86 2-Hexanone                   | 58  | 7.333     | 7.333         | 0.000         | 97 | 1645127  | 1000.0       | 1068.4         |       |
| 87 n-Butyl acetate              | 43  | 7.447     | 7.447         | 0.000         | 98 | 1428530  | 200.0        | 204.1          |       |
| 88 Chlorodibromomethane         | 129 | 7.493     | 7.493         | 0.000         | 98 | 934505   | 200.0        | 203.0          |       |
| 89 Ethylene Dibromide           | 107 | 7.630     | 7.630         | 0.000         | 99 | 848679   | 200.0        | 203.5          |       |
| * 90 Chlorobenzene-d5           | 117 | 8.178     | 8.178         | 0.000         | 85 | 547923   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.212     | 8.212         | 0.000         | 95 | 2241276  | 200.0        | 201.0          |       |
| 92 Ethylbenzene                 | 106 | 8.326     | 8.315         | 0.011         | 98 | 1191276  | 200.0        | 223.1          |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.337     | 8.338         | -0.001        | 97 | 813938   | 200.0        | 199.0          |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.474     | 8.475         | -0.001        | 0  | 1417351  | 200.0        | 215.8          |       |
| 96 o-Xylene                     | 106 | 9.011     | 9.011         | 0.000         | 94 | 1431585  | 200.0        | 220.0          |       |
| 95 n-Butyl acrylate             | 73  | 9.011     | 9.011         | 0.000         | 97 | 721107   | 200.0        | 201.5          |       |
| 97 Styrene                      | 104 | 9.045     | 9.046         | -0.001        | 94 | 2520531  | 200.0        | 214.5          |       |
| 99 Bromoform                    | 173 | 9.296     | 9.297         | -0.001        | 97 | 690100   | 200.0        | 209.6          |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.296     | 9.297         | -0.001        | 89 | 1612085  | 200.0        | 200.6          |       |
| 100 Isopropylbenzene            | 105 | 9.433     | 9.434         | -0.001        | 96 | 3360931  | 200.0        | 216.1          |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.650     | 9.651         | -0.001        | 95 | 210365   | 50.0         | 50.9           |       |
| 102 Bromobenzene                | 156 | 9.776     | 9.776         | 0.000         | 94 | 1052159  | 200.0        | 215.0          |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.844     | 9.845         | -0.001        | 99 | 1144921  | 200.0        | 194.0          |       |
| 104 N-Propylbenzene             | 91  | 9.856     | 9.856         | 0.000         | 99 | 3986519  | 200.0        | 229.7          |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.879     | 9.879         | 0.000         | 98 | 280787   | 200.0        | 195.5          |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.902     | 9.902         | 0.000         | 91 | 303465   | 200.0        | 197.4          |       |
| 107 2-Chlorotoluene             | 91  | 9.947     | 9.948         | -0.001        | 97 | 2864021  | 200.0        | 218.9          |       |
| 108 4-Ethyltoluene              | 105 | 9.959     | 9.959         | 0.000         | 97 | 3338876  | 200.0        | 225.7          |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.027    | 10.027        | 0.000         | 93 | 2706952  | 200.0        | 223.7          | a     |
| 110 4-Chlorotoluene             | 91  | 10.061    | 10.062        | -0.001        | 96 | 2609499  | 200.0        | 209.0          |       |
| 111 Butyl Methacrylate          | 87  | 10.130    | 10.130        | 0.000         | 90 | 1170105  | 200.0        | 201.1          |       |
| 112 tert-Butylbenzene           | 119 | 10.278    | 10.279        | -0.001        | 94 | 2190846  | 200.0        | 231.0          |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.335    | 10.336        | -0.001        | 98 | 2955469  | 200.0        | 212.9          |       |
| 114 sec-Butylbenzene            | 105 | 10.461    | 10.461        | 0.000         | 99 | 3124718  | 200.0        | 235.9          |       |
| 115 4-Isopropyltoluene          | 119 | 10.564    | 10.564        | 0.000         | 98 | 2770916  | 200.0        | 202.6          |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.564    | 10.564        | 0.000         | 96 | 1829084  | 200.0        | 210.1          |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.621    | 10.621        | 0.000         | 93 | 308045   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.644    | 10.644        | 0.000         | 96 | 1886767  | 200.0        | 203.1          |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.655    | 10.655        | 0.000         | 98 | 3138585  | 200.0        | 214.3          |       |
| 119 Benzyl chloride             | 91  | 10.746    | 10.747        | -0.001        | 99 | 2109384  | 200.0        | 215.8          |       |
| 120 2,3-Dihydroindene           | 117 | 10.792    | 10.792        | 0.000         | 95 | 3215179  | 200.0        | 216.1          |       |
| 121 p-Diethylbenzene            | 119 | 10.838    | 10.838        | 0.000         | 93 | 1463172  | 200.0        | 225.9          |       |
| 122 n-Butylbenzene              | 92  | 10.861    | 10.861        | 0.000         | 98 | 1345301  | 200.0        | 221.2          |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.906    | 10.907        | -0.001        | 98 | 1781541  | 200.0        | 207.9          |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.351    | 11.340        | 0.011         | 98 | 2670626  | 200.0        | 202.6          |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.420    | 11.420        | 0.000         | 95 | 188618   | 200.0        | 205.0          |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.500    | 11.500        | 0.000         | 98 | 1123916  | 200.0        | 209.0          |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.877    | 11.877        | 0.000         | 94 | 1067509  | 200.0        | 208.0          |       |
| 128 Hexachlorobutadiene         | 225 | 11.945    | 11.934        | 0.011         | 98 | 353383   | 200.0        | 208.2          |       |
| 129 Naphthalene                 | 128 | 12.036    | 12.025        | 0.011         | 99 | 2894620  | 200.0        | 215.2          |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.185    | 12.185        | 0.000         | 96 | 936937   | 200.0        | 200.2          |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0  |          | 400.0        | 396.4          |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0  |          | 400.0        | 435.8          |       |
| S 133 Total BTEX                | 1   |           |               |               | 0  |          | 1000.0       | 1058.1         |       |



**QC Flag Legend**

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

|                   |                     |           |             |
|-------------------|---------------------|-----------|-------------|
| Ethanol mix_00019 | Amount Added: 20.00 | Units: uL |             |
| MIX 2 Hi_00074    | Amount Added: 20.00 | Units: uL |             |
| MIX I Hi_00097    | Amount Added: 20.00 | Units: uL |             |
| GAS Hi_00272      | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00080  | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119   | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00181 | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75071.D

Injection Date: 20-Sep-2018 14:39:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD200

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

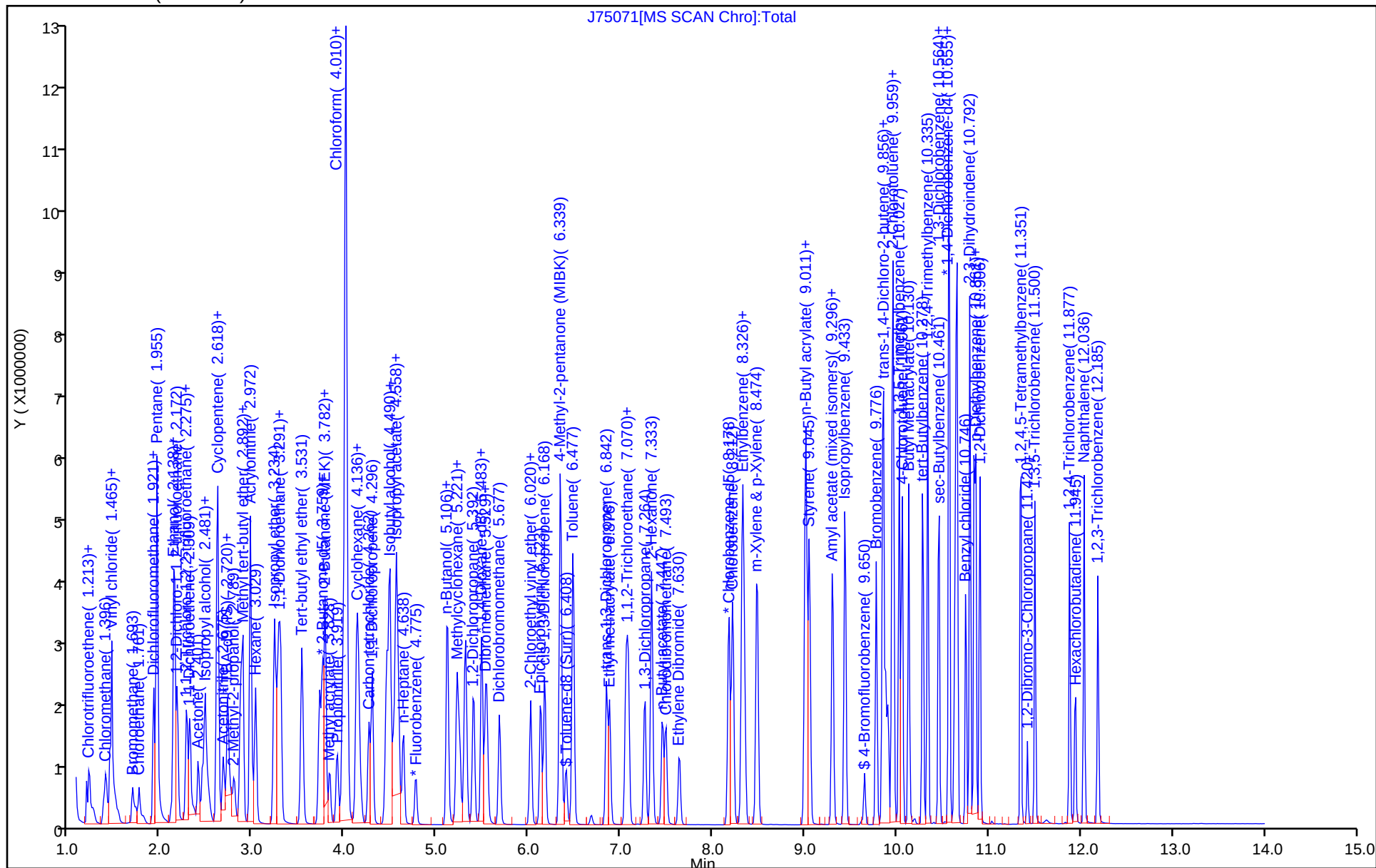
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75071.D

Injection Date: 20-Sep-2018 14:39:30

Instrument ID: CVOAMS8

Lims ID: STD200

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

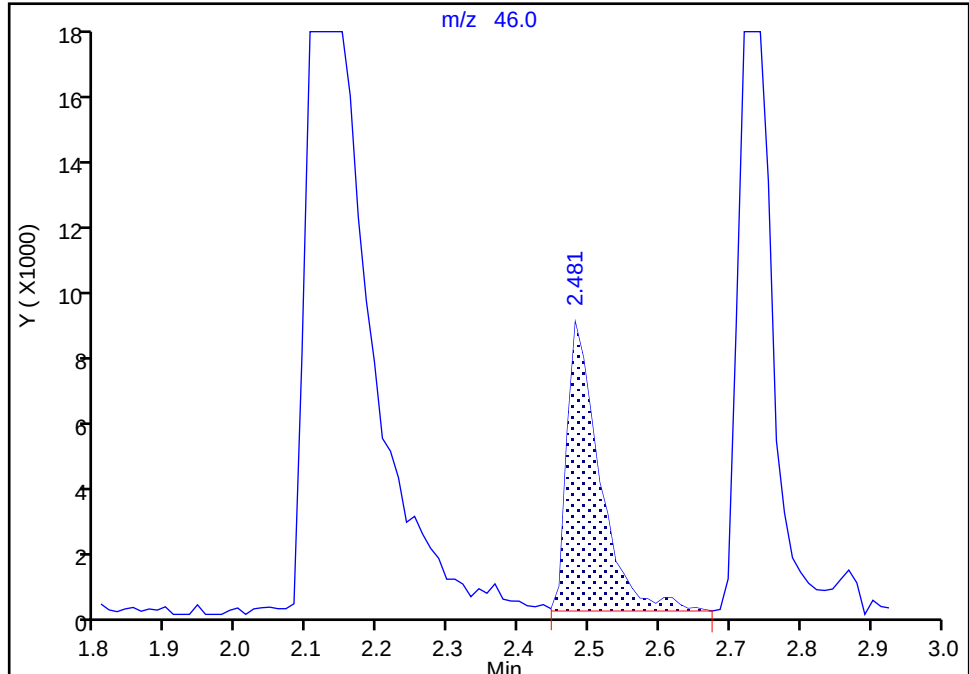
MS SCAN

**11 Ethanol, CAS: 64-17-5**

Signal: 1

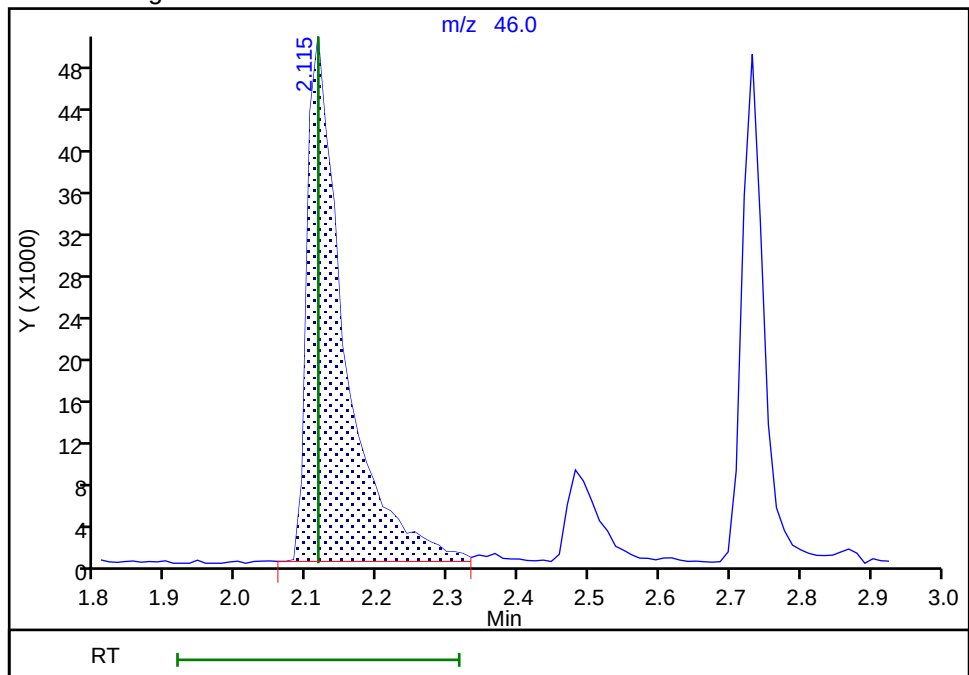
RT: 2.48  
Area: 28262  
Amount: 1928.2661  
Amount Units: ug/l

## Processing Integration Results



RT: 2.12  
Area: 184400  
Amount: 7469.6169  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:42:30

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75071.D

Injection Date: 20-Sep-2018 14:39:30

Instrument ID: CVOAMS8

Lims ID: STD200

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

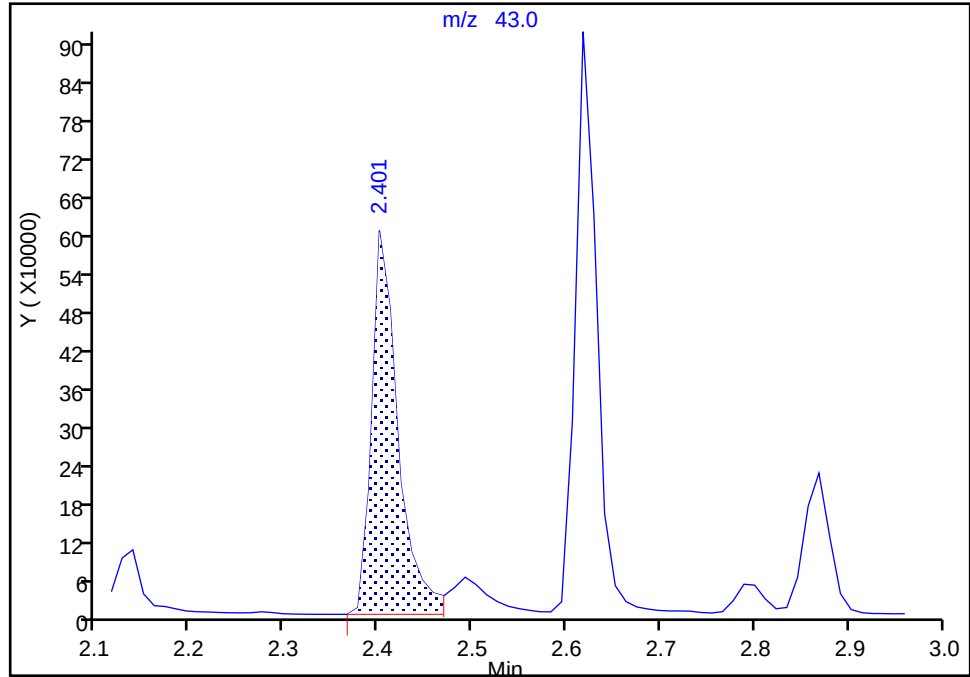
MS SCAN

**24 Methyl acetate, CAS: 79-20-9**

Signal: 1

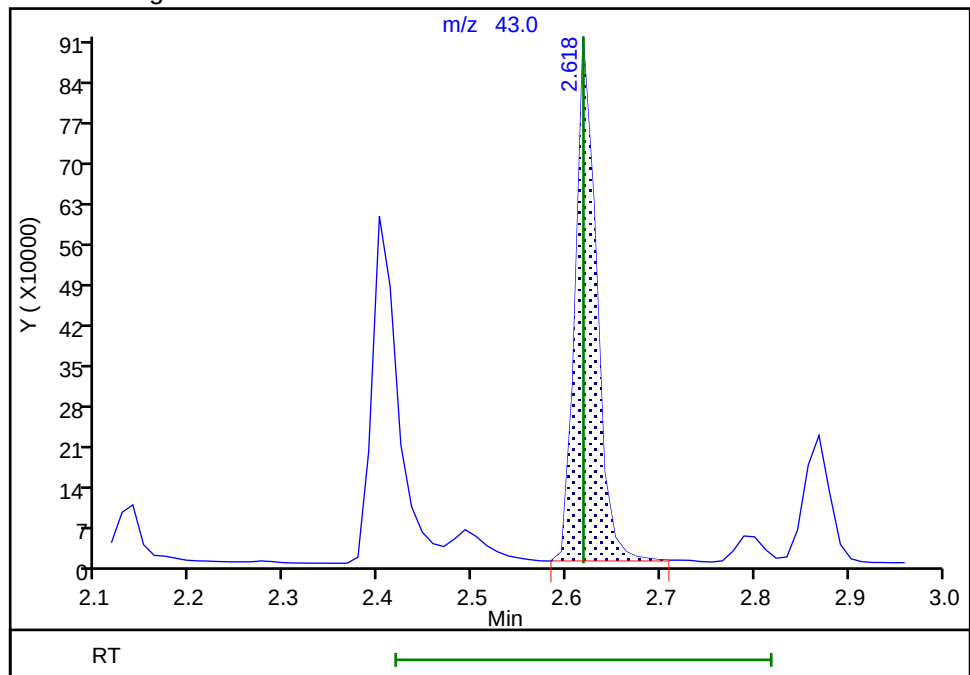
RT: 2.40  
Area: 1173513  
Amount: 388.3853  
Amount Units: ug/l

## Processing Integration Results



RT: 2.62  
Area: 1429037  
Amount: 389.5671  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:24:45

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75071.D

Injection Date: 20-Sep-2018 14:39:30

Instrument ID: CVOAMS8

Lims ID: STD200

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

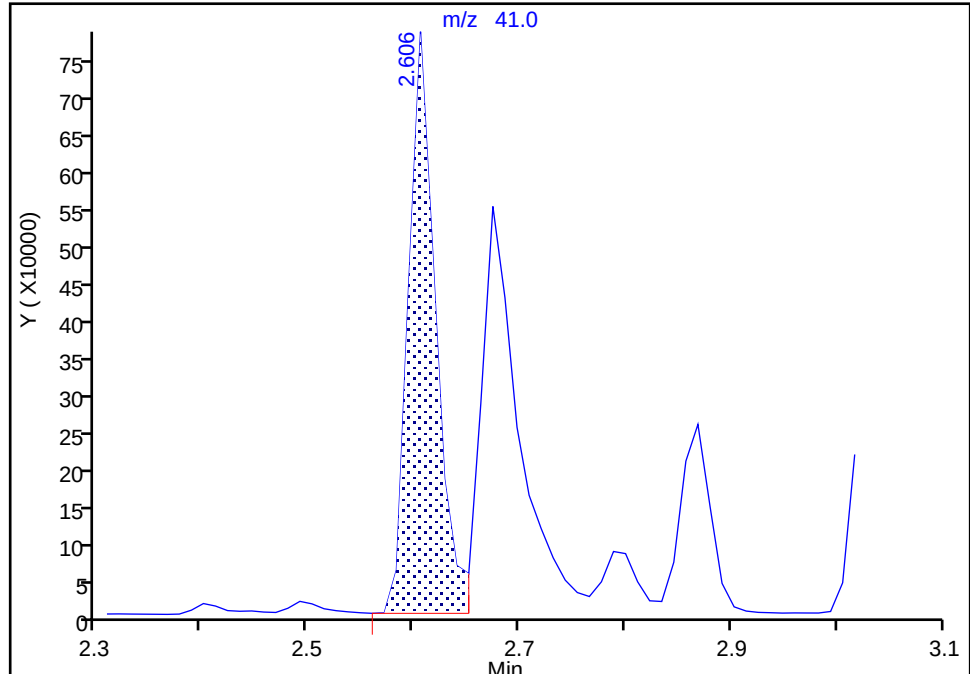
Detector: MS SCAN

**25 Acetonitrile, CAS: 75-05-8**

Signal: 1

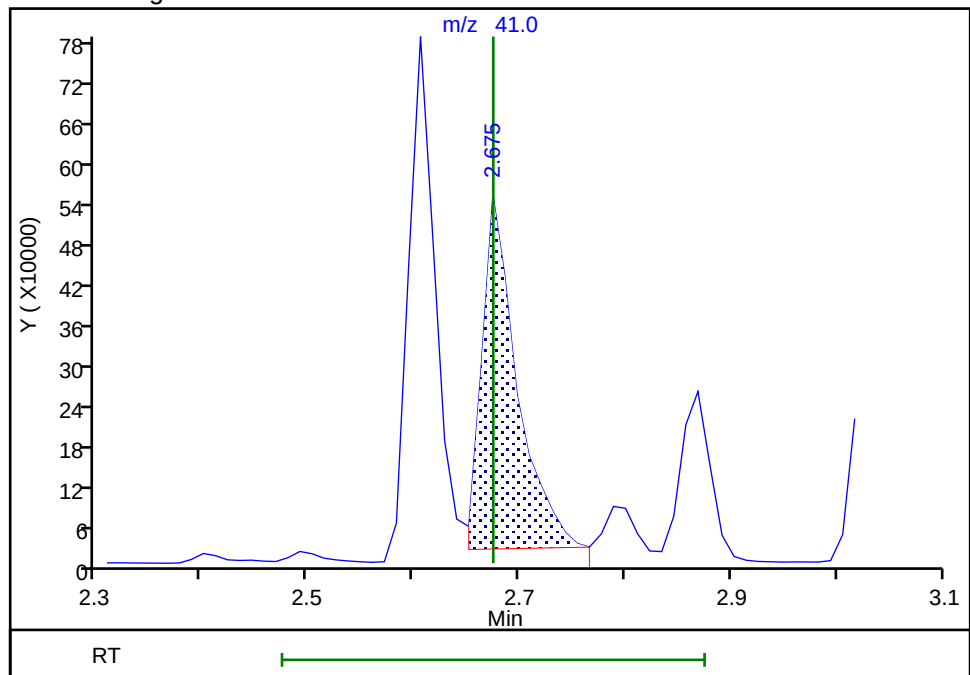
RT: 2.61  
Area: 1412767  
Amount: 2062.7683  
Amount Units: ug/l

## Processing Integration Results



RT: 2.67  
Area: 1212588  
Amount: 1943.3197  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:24:53

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75071.D

Injection Date: 20-Sep-2018 14:39:30

Instrument ID: CVOAMS8

Lims ID: STD200

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

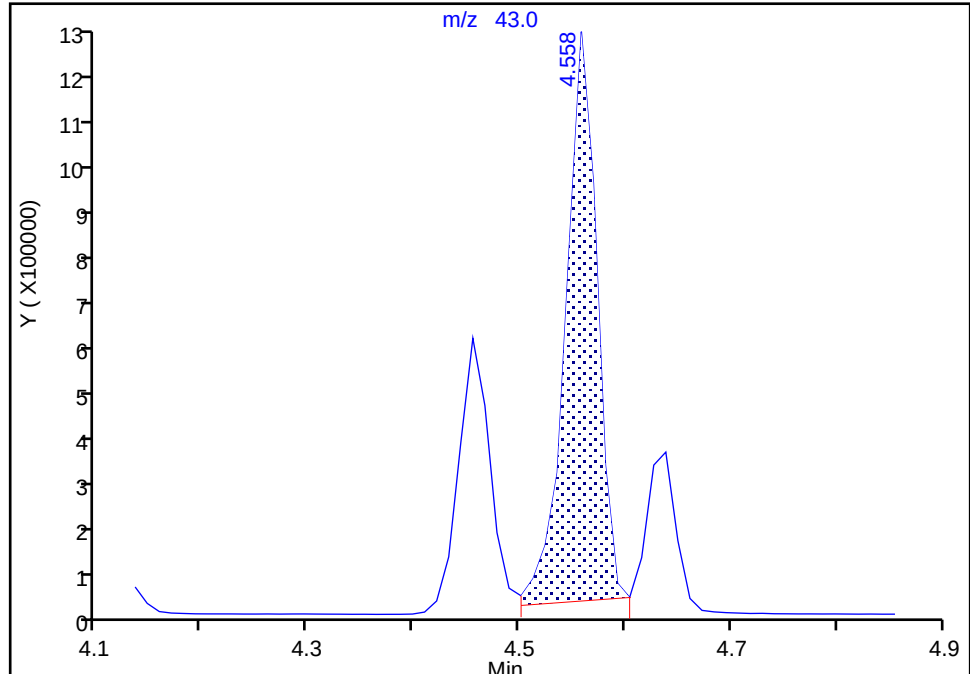
Detector: MS SCAN

**58 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

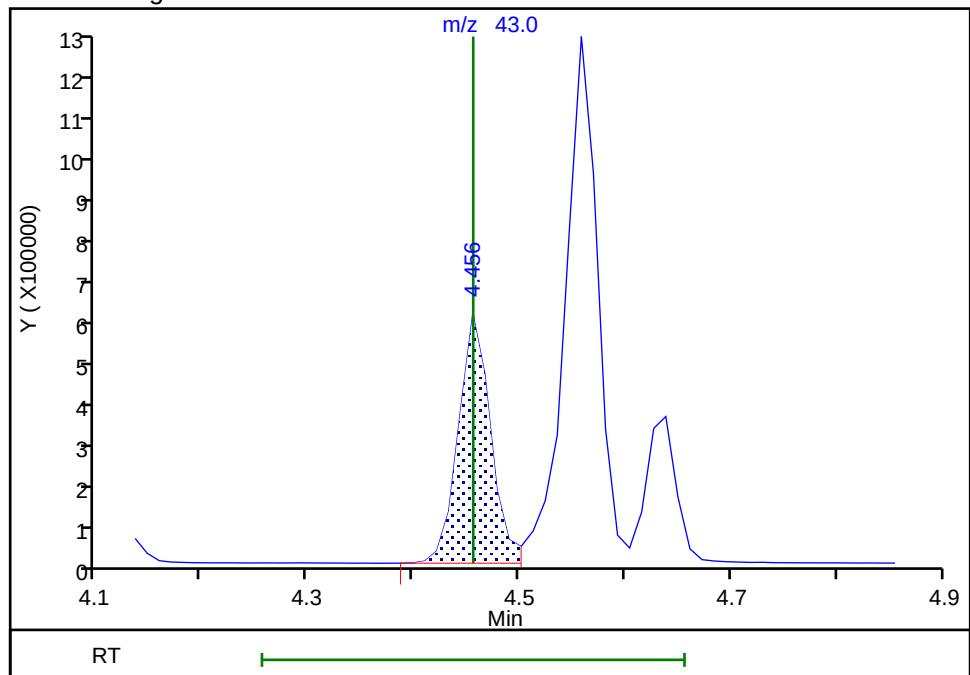
RT: 4.56  
Area: 2470834  
Amount: 5309.9773  
Amount Units: ug/l

## Processing Integration Results



RT: 4.46  
Area: 1232932  
Amount: 5681.6079  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:25:14

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75071.D

Injection Date: 20-Sep-2018 14:39:30

Instrument ID: CVOAMS8

Lims ID: STD200

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

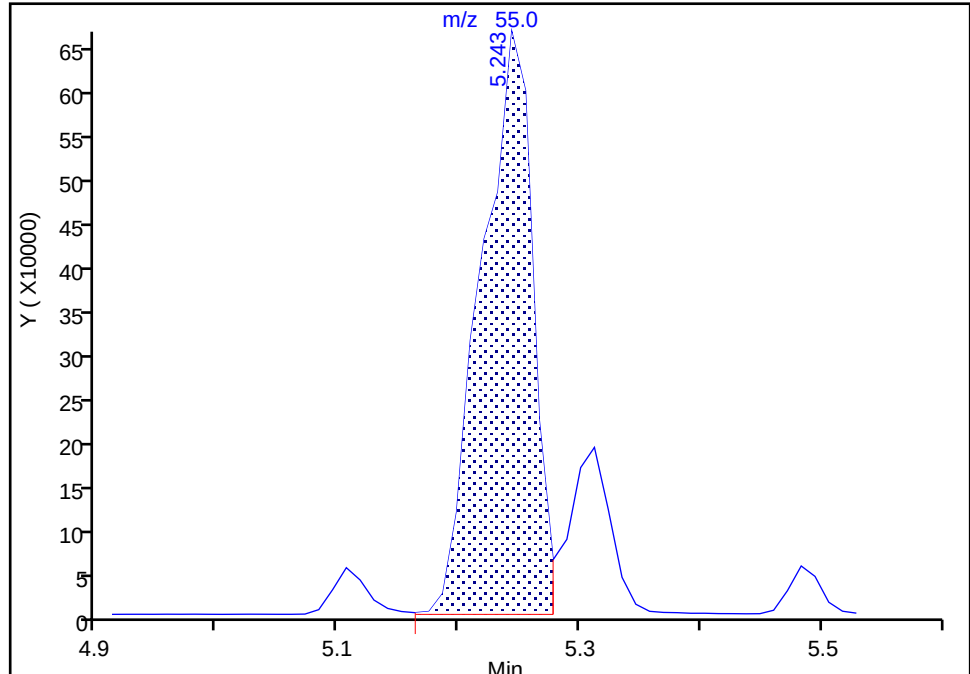
MS SCAN

**66 Ethyl acrylate, CAS: 140-88-5**

Signal: 1

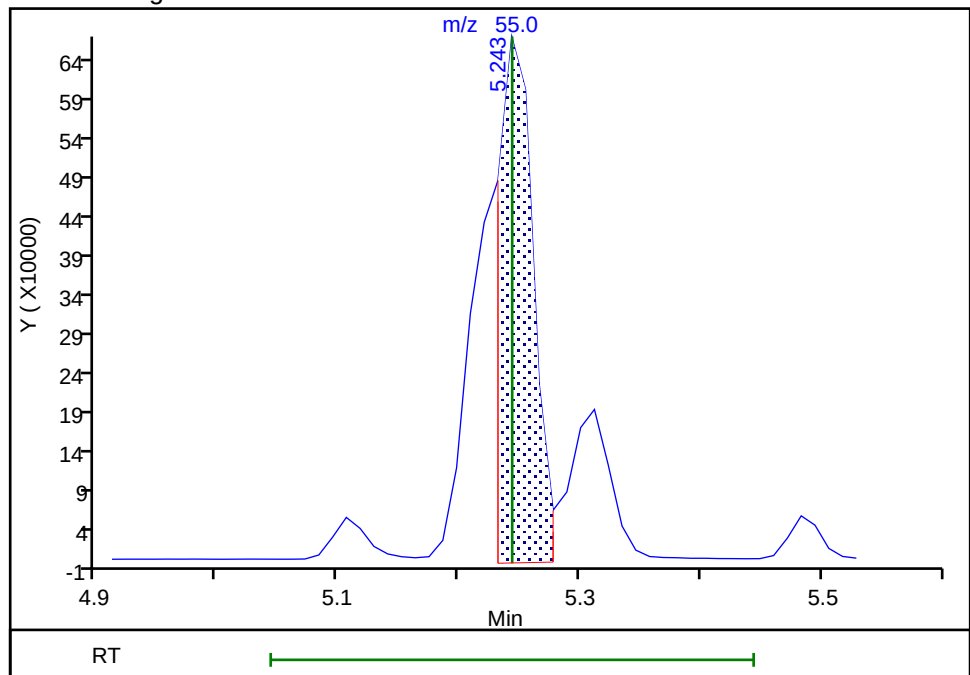
RT: 5.24  
Area: 2004282  
Amount: 333.9107  
Amount Units: ug/l

## Processing Integration Results



RT: 5.24  
Area: 1408783  
Amount: 223.7075  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:42:18

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75071.D

Injection Date: 20-Sep-2018 14:39:30

Instrument ID: CVOAMS8

Lims ID: STD200

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector

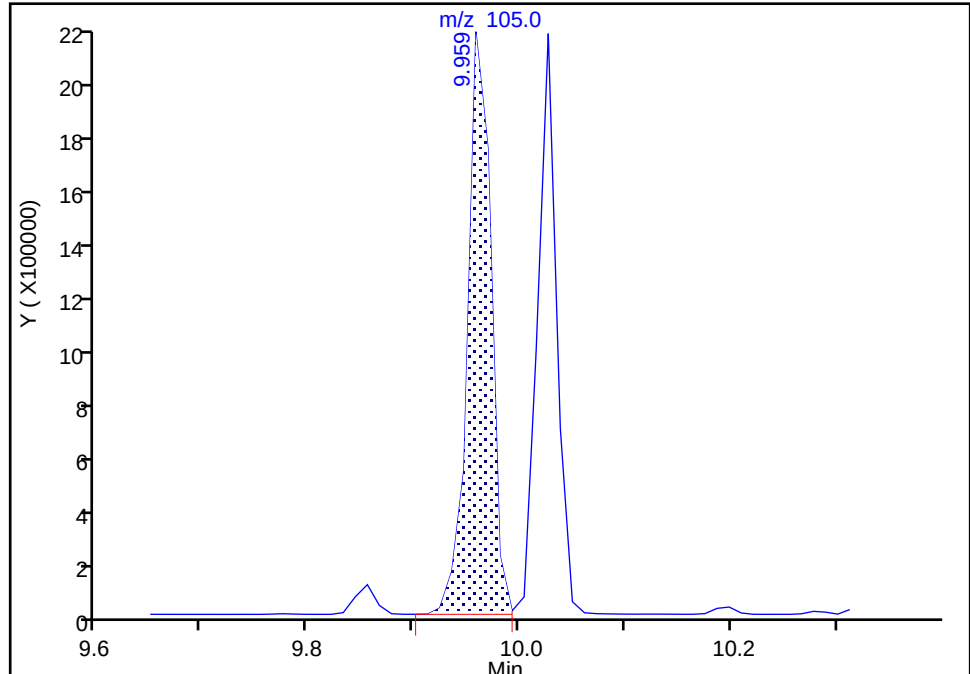
MS SCAN

**109 1,3,5-Trimethylbenzene, CAS: 108-67-8**

Signal: 1

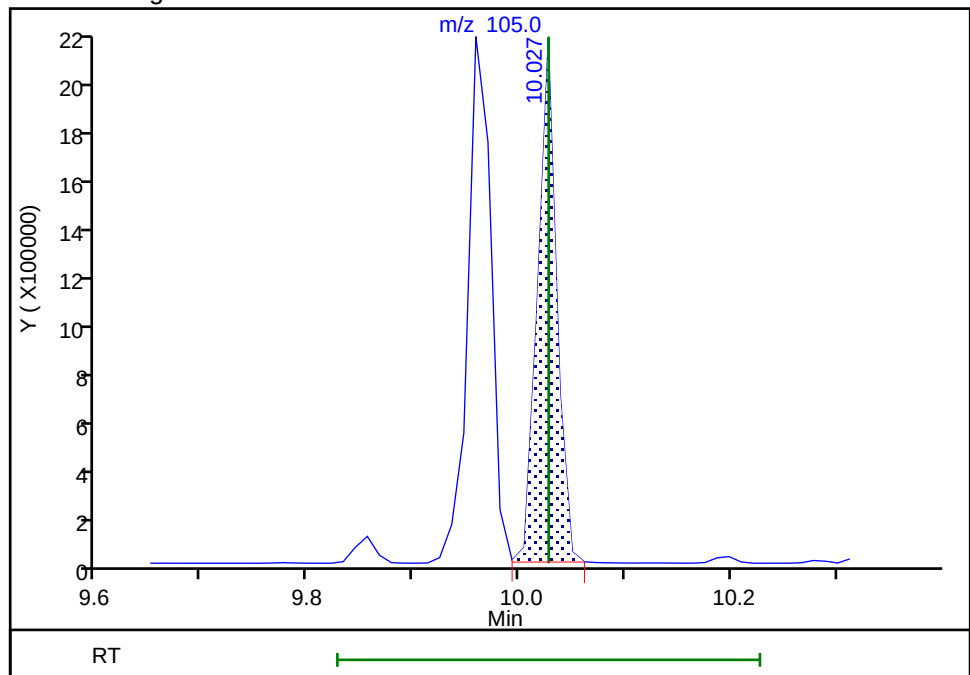
RT: 9.96  
Area: 3338876  
Amount: 240.7519  
Amount Units: ug/l

## Processing Integration Results



RT: 10.03  
Area: 2706952  
Amount: 223.7482  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:25:41

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75072.D  
 Lims ID: STD500  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 20-Sep-2018 15:06:30 ALS Bottle#: 8 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: STD500  
 Misc. Info.: 460-0078971-009  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 21-Sep-2018 15:39:50 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK007

First Level Reviewer: pakanatir

Date: 20-Sep-2018 17:29:10

| Compound                      | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.191     | 1.191         | 0.000         | 94  | 309560   | 500.0        | 421.0          |       |
| 2 Dichlorodifluoromethane     | 85  | 1.214     | 1.214         | 0.000         | 99  | 2788374  | 500.0        | 501.0          |       |
| 3 Chloromethane               | 50  | 1.397     | 1.408         | -0.011        | 99  | 3183185  | 500.0        | 486.3          |       |
| 4 Vinyl chloride              | 62  | 1.442     | 1.442         | 0.000         | 98  | 2831314  | 500.0        | 463.7          |       |
| 5 Butadiene                   | 54  | 1.465     | 1.465         | 0.000         | 97  | 2651544  | 500.0        | 515.6          |       |
| 6 Bromomethane                | 94  | 1.682     | 1.693         | -0.011        | 99  | 1294972  | 500.0        | 462.6          |       |
| 7 Chloroethane                | 64  | 1.762     | 1.762         | 0.000         | 100 | 1360146  | 500.0        | 452.9          |       |
| 8 Dichlorofluoromethane       | 67  | 1.922     | 1.922         | 0.000         | 97  | 3819471  | 500.0        | 455.7          |       |
| 9 Trichlorofluoromethane      | 101 | 1.922     | 1.922         | 0.000         | 69  | 1713488  | 500.0        | 284.3          |       |
| 10 Pentane                    | 72  | 1.956     | 1.956         | 0.000         | 95  | 568871   | 1000.0       | 1020.1         |       |
| 11 Ethanol                    | 46  | 2.116     | 2.116         | 0.000         | 98  | 488369   | 16000        | 17600          | a     |
| 12 Ethyl ether                | 59  | 2.139     | 2.138         | 0.001         | 92  | 1522241  | 500.0        | 444.8          |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.150     | 2.150         | 0.000         | 97  | 1901215  | 500.0        | 508.0          |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.184     | 2.173         | 0.011         | 94  | 1749896  | 500.0        | 521.6          |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.276     | 2.275         | 0.001         | 98  | 1808046  | 500.0        | 475.7          |       |
| 16 Acrolein                   | 56  | 2.287     | 2.287         | 0.000         | 95  | 333935   | 500.0        | 401.1          |       |
| 17 1,1-Dichloroethene         | 96  | 2.321     | 2.310         | 0.011         | 98  | 1793793  | 500.0        | 481.0          |       |
| 18 Acetone                    | 43  | 2.401     | 2.401         | 0.000         | 87  | 2974154  | 2500.0       | 2292.8         |       |
| 19 Iodomethane                | 142 | 2.447     | 2.447         | 0.000         | 98  | 3165347  | 500.0        | 529.5          |       |
| 20 Carbon disulfide           | 76  | 2.481     | 2.481         | 0.000         | 99  | 6551594  | 500.0        | 440.4          |       |
| 21 Isopropyl alcohol          | 45  | 2.504     | 2.492         | 0.012         | 100 | 1486197  | 5000.0       | 4718.6         |       |
| 22 3-Chloro-1-propene         | 76  | 2.607     | 2.607         | 0.000         | 93  | 1045822  | 500.0        | 420.1          |       |
| 23 Cyclopentene               | 67  | 2.618     | 2.618         | 0.000         | 94  | 5277596  | 500.0        | 513.8          |       |
| 24 Methyl acetate             | 43  | 2.618     | 2.618         | 0.000         | 100 | 3379193  | 1000.0       | 850.8          | a     |
| 25 Acetonitrile               | 41  | 2.675     | 2.675         | 0.000         | 97  | 3335441  | 5000.0       | 4755.8         | a     |
| 26 Methylene Chloride         | 84  | 2.721     | 2.721         | 0.000         | 95  | 2140275  | 500.0        | 466.1          |       |
| * 27 TBA-d9 (IS)              | 65  | 2.732     | 2.732         | 0.000         | 0   | 387338   | 1000.0       | 1000.0         |       |
| 28 2-Methyl-2-propanol        | 59  | 2.801     | 2.801         | 0.000         | 99  | 2131104  | 5000.0       | 4666.3         |       |
| 29 Methyl tert-butyl ether    | 73  | 2.869     | 2.869         | 0.000         | 98  | 5340334  | 500.0        | 479.5          |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.892     | 2.892         | 0.000         | 96  | 2051585  | 500.0        | 478.4          |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 31 Acrylonitrile                 | 53  | 2.972     | 2.972         | 0.000         | 93  | 7960180  | 5000.0       | 4083.6         |       |
| 32 Hexane                        | 57  | 3.029     | 3.029         | 0.000         | 94  | 2059836  | 500.0        | 459.2          |       |
| 33 Isopropyl ether               | 45  | 3.235     | 3.234         | 0.001         | 98  | 7064487  | 500.0        | 470.8          |       |
| 34 1,1-Dichloroethane            | 63  | 3.269     | 3.257         | 0.012         | 99  | 3667275  | 500.0        | 445.2          |       |
| 35 Vinyl acetate                 | 43  | 3.280     | 3.280         | 0.000         | 100 | 7834859  | 1000.0       | 874.3          |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.303     | 3.303         | 0.000         | 90  | 1869718  | 500.0        | 485.6          |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.532     | 3.531         | 0.001         | 89  | 6176632  | 500.0        | 491.2          |       |
| 38 2,2-Dichloropropane           | 79  | 3.726     | 3.725         | 0.001         | 96  | 900900   | 500.0        | 471.5          |       |
| * 39 2-Butanone-d5               | 46  | 3.737     | 3.725         | 0.012         | 0   | 500079   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.760     | 3.760         | 0.000         | 99  | 2374422  | 500.0        | 481.9          |       |
| 42 Ethyl acetate                 | 70  | 3.794     | 3.782         | 0.012         | 97  | 501996   | 1000.0       | 993.7          |       |
| 41 2-Butanone (MEK)              | 72  | 3.783     | 3.782         | 0.001         | 96  | 1272031  | 2500.0       | 2460.6         |       |
| 43 Methyl acrylate               | 55  | 3.840     | 3.828         | 0.012         | 100 | 2153645  | 500.0        | 469.4          |       |
| 44 Propionitrile                 | 54  | 3.920     | 3.908         | 0.012         | 99  | 3529427  | 5000.0       | 4585.0         |       |
| 46 Chlorobromomethane            | 128 | 3.977     | 3.977         | 0.000         | 94  | 1133662  | 500.0        | 470.2          |       |
| 45 Tetrahydrofuran               | 72  | 3.977     | 3.977         | 0.000         | 80  | 580759   | 1000.0       | 1101.4         |       |
| 47 Methacrylonitrile             | 67  | 4.022     | 3.999         | 0.023         | 91  | 8608738  | 5000.0       | 4404.7         |       |
| 48 Chloroform                    | 83  | 4.034     | 4.022         | 0.012         | 99  | 3358490  | 500.0        | 445.2          |       |
| 49 Cyclohexane                   | 84  | 4.125     | 4.125         | 0.000         | 94  | 2549170  | 500.0        | 514.7          |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.148     | 4.148         | 0.000         | 99  | 2768412  | 500.0        | 459.7          |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.182     | 4.171         | 0.011         | 98  | 180154   | 50.0         | 46.0           |       |
| 52 Carbon tetrachloride          | 117 | 4.262     | 4.262         | 0.000         | 98  | 2479881  | 500.0        | 470.1          |       |
| 53 1,1-Dichloropropene           | 75  | 4.296     | 4.296         | 0.000         | 97  | 2730419  | 500.0        | 505.3          |       |
| 54 Isooctane                     | 57  | 4.456     | 4.445         | 0.011         | 91  | 3812669  | 500.0        | 516.5          |       |
| 58 Isobutyl alcohol              | 43  | 4.468     | 4.456         | 0.012         | 95  | 3206490  | 12500        | 13146          | a     |
| 55 Benzene                       | 78  | 4.491     | 4.490         | 0.001         | 97  | 7933478  | 500.0        | 449.5          |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513     | 4.513         | 0.000         | 0   | 195519   | 50.0         | 45.7           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.559     | 4.559         | 0.000         | 89  | 1771072  | 500.0        | 509.2          |       |
| 59 Isopropyl acetate             | 43  | 4.559     | 4.559         | 0.000         | 96  | 6198650  | 500.0        | 496.2          |       |
| 60 1,2-Dichloroethane            | 62  | 4.593     | 4.582         | 0.011         | 96  | 2531771  | 500.0        | 438.1          |       |
| 61 n-Heptane                     | 57  | 4.639     | 4.639         | 0.000         | 95  | 818017   | 500.0        | 480.3          |       |
| * 62 Fluorobenzene               | 96  | 4.776     | 4.764         | 0.012         | 99  | 727132   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.118     | 5.107         | 0.011         | 65  | 1651309  | 12500        | 15102          |       |
| 64 Trichloroethene               | 95  | 5.118     | 5.118         | 0.000         | 99  | 2133961  | 500.0        | 499.2          |       |
| 65 Methylcyclohexane             | 83  | 5.221     | 5.221         | 0.000         | 93  | 2620220  | 500.0        | 503.2          |       |
| 66 Ethyl acrylate                | 55  | 5.255     | 5.244         | 0.011         | 97  | 3779460  | 500.0        | 554.3          | Ma    |
| 67 1,2-Dichloropropane           | 63  | 5.404     | 5.392         | 0.012         | 93  | 2259615  | 500.0        | 483.5          |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.484     | 5.472         | 0.012         | 0   | 39328    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.495     | 5.484         | 0.011         | 91  | 1138865  | 1000.0       | 1084.8         |       |
| 70 1,4-Dioxane                   | 88  | 5.529     | 5.529         | 0.000         | 38  | 573899   | 10000        | 11721          |       |
| 71 Dibromomethane                | 93  | 5.529     | 5.529         | 0.000         | 98  | 1473275  | 500.0        | 473.7          |       |
| 72 n-Propyl acetate              | 43  | 5.552     | 5.541         | 0.011         | 98  | 3521803  | 500.0        | 495.1          |       |
| 73 Dichlorobromomethane          | 83  | 5.678     | 5.678         | 0.000         | 100 | 2871323  | 500.0        | 478.3          |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.020     | 6.020         | 0.000         | 75  | 1556232  | 500.0        | 499.7          |       |
| 74 2-Nitropropane                | 41  | 6.020     | 6.020         | 0.000         | 79  | 1130812  | 1000.0       | 923.3          |       |
| 76 Epichlorohydrin               | 57  | 6.135     | 6.123         | 0.012         | 99  | 4449075  | 10000        | 10797          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.180     | 6.169         | 0.011         | 92  | 3447165  | 500.0        | 489.3          |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.351     | 6.340         | 0.011         | 96  | 10442277 | 2500.0       | 2429.0         |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.409     | 6.408         | 0.001         | 99  | 669653   | 50.0         | 47.4           |       |
| 80 Toluene                       | 91  | 6.488     | 6.477         | 0.011         | 94  | 8237538  | 500.0        | 457.4          |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.842     | 6.842         | 0.000         | 98  | 3246769  | 500.0        | 506.6          |       |
| 82 Ethyl methacrylate            | 69  | 6.877     | 6.876         | 0.001         | 91  | 2757966  | 500.0        | 499.7          |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 83 1,1,2-Trichloroethane        | 83  | 7.059     | 7.059         | 0.000         | 98 | 1844918  | 500.0        | 466.7          |       |
| 84 Tetrachloroethene            | 166 | 7.082     | 7.082         | 0.000         | 98 | 2195497  | 500.0        | 484.8          |       |
| 85 1,3-Dichloropropane          | 76  | 7.265     | 7.265         | 0.000         | 95 | 3250699  | 500.0        | 480.9          |       |
| 86 2-Hexanone                   | 58  | 7.333     | 7.333         | 0.000         | 96 | 4160165  | 2500.0       | 2425.8         |       |
| 87 n-Butyl acetate              | 43  | 7.459     | 7.447         | 0.012         | 99 | 3658484  | 500.0        | 482.9          |       |
| 88 Chlorodibromomethane         | 129 | 7.493     | 7.493         | 0.000         | 98 | 2405172  | 500.0        | 483.2          |       |
| 89 Ethylene Dibromide           | 107 | 7.642     | 7.630         | 0.012         | 98 | 2186844  | 500.0        | 484.9          |       |
| * 90 Chlorobenzene-d5           | 117 | 8.178     | 8.178         | 0.000         | 84 | 592549   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.212     | 8.212         | 0.000         | 95 | 5569650  | 500.0        | 461.9          |       |
| 92 Ethylbenzene                 | 106 | 8.327     | 8.315         | 0.012         | 98 | 3066905  | 500.0        | 531.1          |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.349     | 8.338         | 0.011         | 98 | 2080588  | 500.0        | 470.5          |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.486     | 8.475         | 0.011         | 0  | 3651807  | 500.0        | 513.7          |       |
| 95 n-Butyl acrylate             | 73  | 9.023     | 9.011         | 0.012         | 97 | 1929407  | 500.0        | 499.8          |       |
| 96 o-Xylene                     | 106 | 9.012     | 9.011         | 0.001         | 95 | 3657337  | 500.0        | 519.1          |       |
| 97 Styrene                      | 104 | 9.057     | 9.046         | 0.011         | 95 | 6273838  | 500.0        | 493.1          |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.308     | 9.297         | 0.011         | 89 | 4191807  | 500.0        | 499.9          |       |
| 99 Bromoform                    | 173 | 9.297     | 9.297         | 0.000         | 98 | 1806114  | 500.0        | 507.1          |       |
| 100 Isopropylbenzene            | 105 | 9.434     | 9.434         | 0.000         | 97 | 8308215  | 500.0        | 493.4          |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.651     | 9.651         | 0.000         | 95 | 227210   | 50.0         | 50.9           |       |
| 102 Bromobenzene                | 156 | 9.777     | 9.776         | 0.000         | 94 | 2753427  | 500.0        | 521.7          |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.845     | 9.845         | 0.000         | 99 | 3016589  | 500.0        | 474.0          |       |
| 104 N-Propylbenzene             | 91  | 9.856     | 9.856         | 0.000         | 99 | 9624403  | 500.0        | 514.3          |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.879     | 9.879         | 0.000         | 97 | 717153   | 500.0        | 463.0          |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.914     | 9.902         | 0.012         | 87 | 778861   | 500.0        | 469.8          | a     |
| 107 2-Chlorotoluene             | 91  | 9.959     | 9.948         | 0.011         | 97 | 7181734  | 500.0        | 509.0          |       |
| 108 4-Ethyltoluene              | 105 | 9.971     | 9.959         | 0.012         | 96 | 8345677  | 500.0        | 523.2          |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.028    | 10.027        | 0.001         | 93 | 6824121  | 500.0        | 523.1          | a     |
| 110 4-Chlorotoluene             | 91  | 10.062    | 10.062        | 0.000         | 97 | 6650564  | 500.0        | 493.9          |       |
| 111 Butyl Methacrylate          | 87  | 10.130    | 10.130        | 0.000         | 90 | 3114808  | 500.0        | 499.8          |       |
| 112 tert-Butylbenzene           | 119 | 10.290    | 10.279        | 0.011         | 94 | 5547824  | 500.0        | 542.6          |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.336    | 10.336        | 0.000         | 98 | 7104254  | 500.0        | 474.1          |       |
| 114 sec-Butylbenzene            | 105 | 10.462    | 10.461        | 0.001         | 98 | 7589966  | 500.0        | 531.4          |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.564    | 10.564        | 0.000         | 94 | 4636270  | 500.0        | 493.8          |       |
| 115 4-Isopropyltoluene          | 119 | 10.576    | 10.564        | 0.012         | 97 | 6612021  | 500.0        | 499.5          |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.621    | 10.621        | 0.000         | 93 | 332147   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.644    | 10.644        | 0.000         | 95 | 4691128  | 500.0        | 468.4          |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.656    | 10.655        | 0.001         | 97 | 7559244  | 500.0        | 478.7          |       |
| 119 Benzyl chloride             | 91  | 10.758    | 10.747        | 0.011         | 99 | 5323927  | 500.0        | 505.1          |       |
| 120 2,3-Dihydroindene           | 117 | 10.793    | 10.792        | 0.001         | 95 | 7812669  | 500.0        | 486.9          |       |
| 121 p-Diethylbenzene            | 119 | 10.838    | 10.838        | 0.000         | 91 | 3671662  | 500.0        | 525.7          |       |
| 122 n-Butylbenzene              | 92  | 10.861    | 10.861        | 0.000         | 99 | 3324293  | 500.0        | 506.8          |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.907    | 10.907        | 0.000         | 97 | 4477864  | 500.0        | 484.5          |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.341    | 11.340        | 0.001         | 98 | 6369122  | 500.0        | 499.5          |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.421    | 11.420        | 0.001         | 92 | 484127   | 500.0        | 488.0          |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.500    | 11.500        | 0.000         | 98 | 2797754  | 500.0        | 482.4          |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.866    | 11.877        | -0.011        | 94 | 2667704  | 500.0        | 482.0          |       |
| 128 Hexachlorobutadiene         | 225 | 11.934    | 11.934        | 0.000         | 98 | 876048   | 500.0        | 479.4          |       |
| 129 Naphthalene                 | 128 | 12.026    | 12.025        | 0.001         | 98 | 7048797  | 500.0        | 486.1          |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.174    | 12.185        | -0.011        | 96 | 2382068  | 500.0        | 472.1          |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0  |          | 1000.0       | 960.3          |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0  |          | 1000.0       | 1032.8         |       |
| S 133 Total BTEX                | 1   |           |               |               | 0  |          | 2500.0       | 2470.7         |       |

**QC Flag Legend**

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

|                   |                     |           |             |
|-------------------|---------------------|-----------|-------------|
| Ethanol mix_00019 | Amount Added: 40.00 | Units: uL |             |
| MIX 2 Hi_00074    | Amount Added: 50.00 | Units: uL |             |
| MIX I Hi_00097    | Amount Added: 50.00 | Units: uL |             |
| GAS Hi_00272      | Amount Added: 50.00 | Units: uL |             |
| ACROLEIN W_00080  | Amount Added: 50.00 | Units: uL |             |
| 8260ISNEW_00119   | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00181 | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75072.D

Injection Date: 20-Sep-2018 15:06:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD500

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

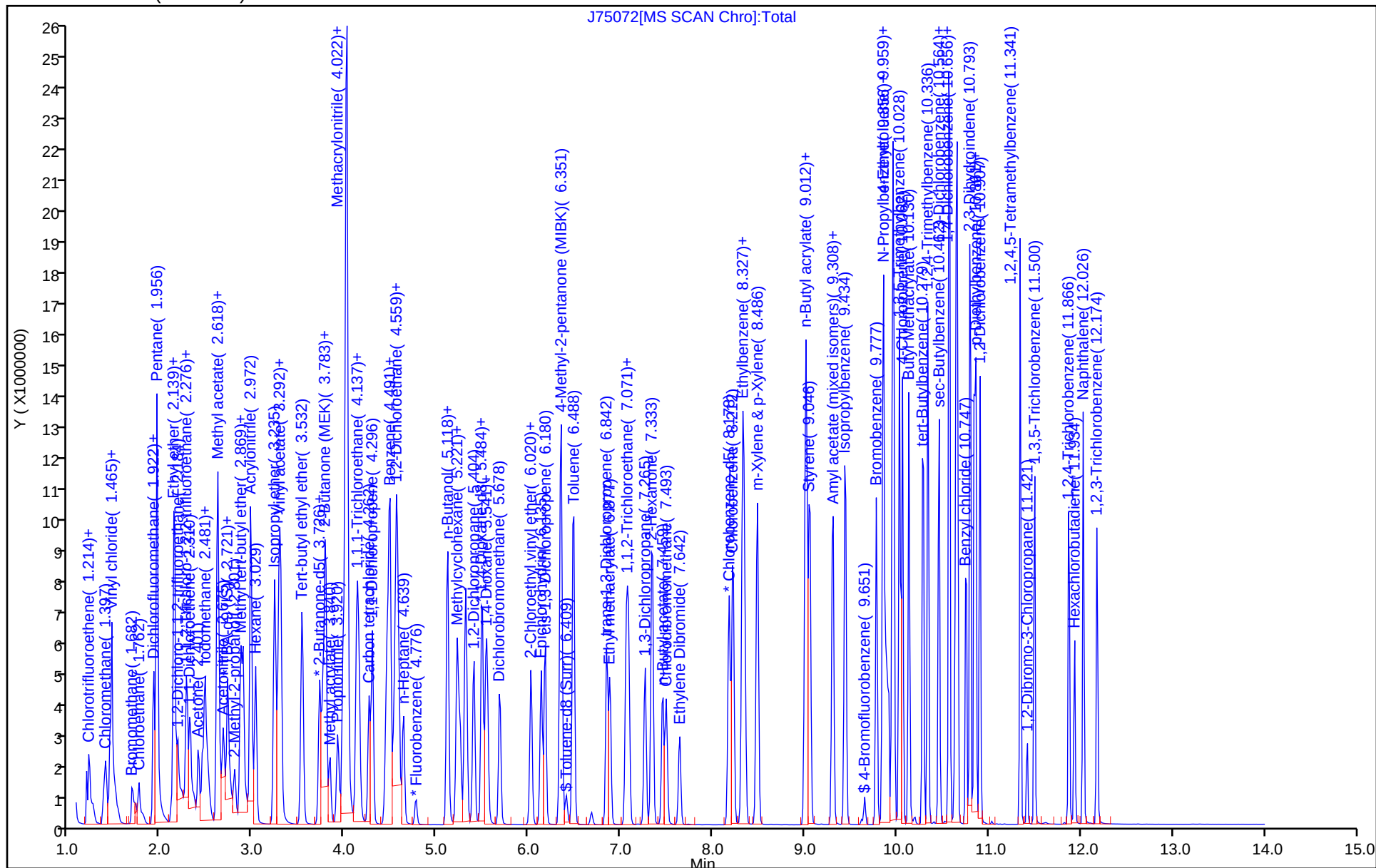
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75072.D

Injection Date: 20-Sep-2018 15:06:30

Instrument ID: CVOAMS8

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

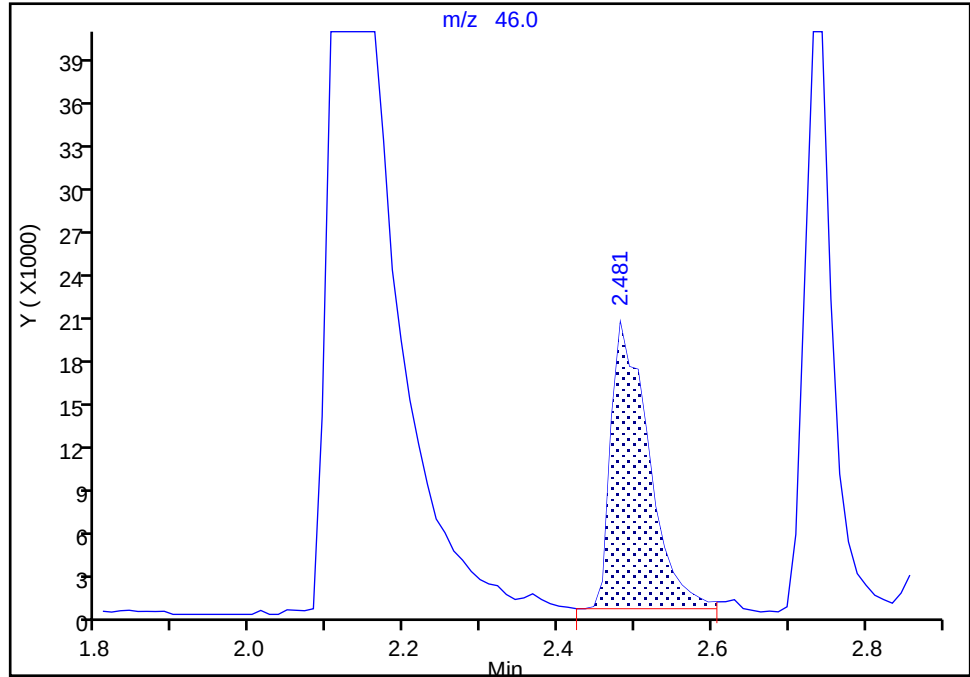
Detector: MS SCAN

**11 Ethanol, CAS: 64-17-5**

Signal: 1

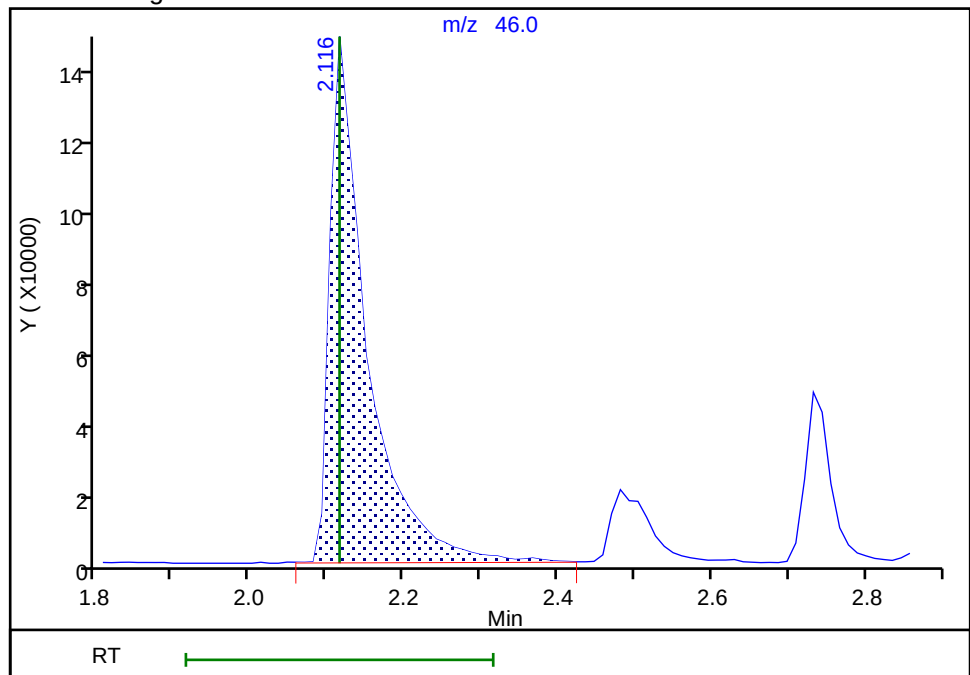
RT: 2.48  
Area: 68343  
Amount: 3222.5403  
Amount Units: ug/l

## Processing Integration Results



RT: 2.12  
Area: 488369  
Amount: 17600  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:43:16

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75072.D

Injection Date: 20-Sep-2018 15:06:30

Instrument ID: CVOAMS8

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

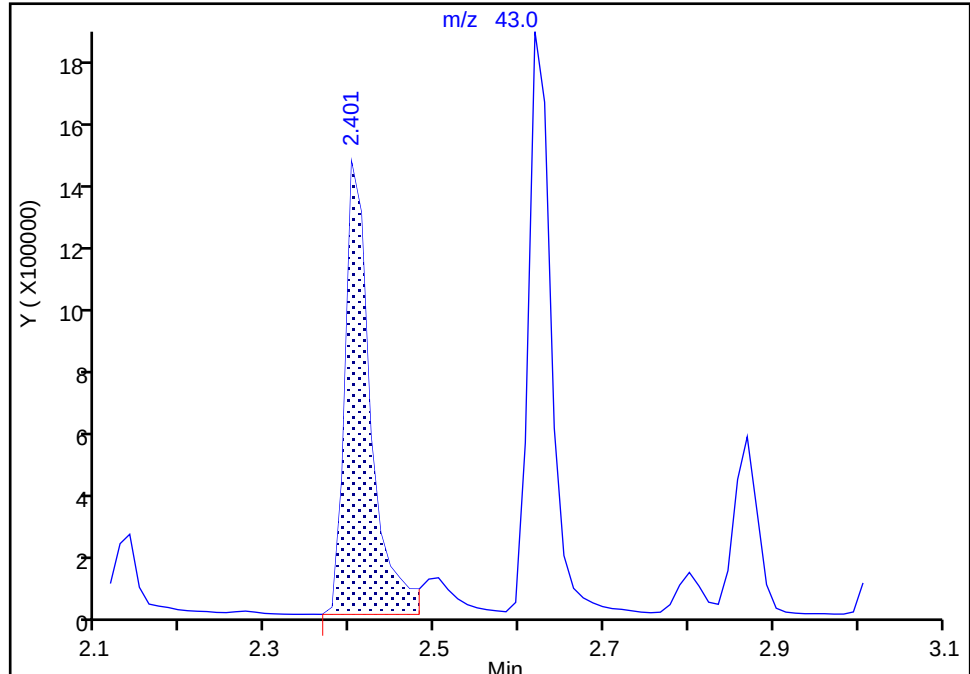
Detector: MS SCAN

**24 Methyl acetate, CAS: 79-20-9**

Signal: 1

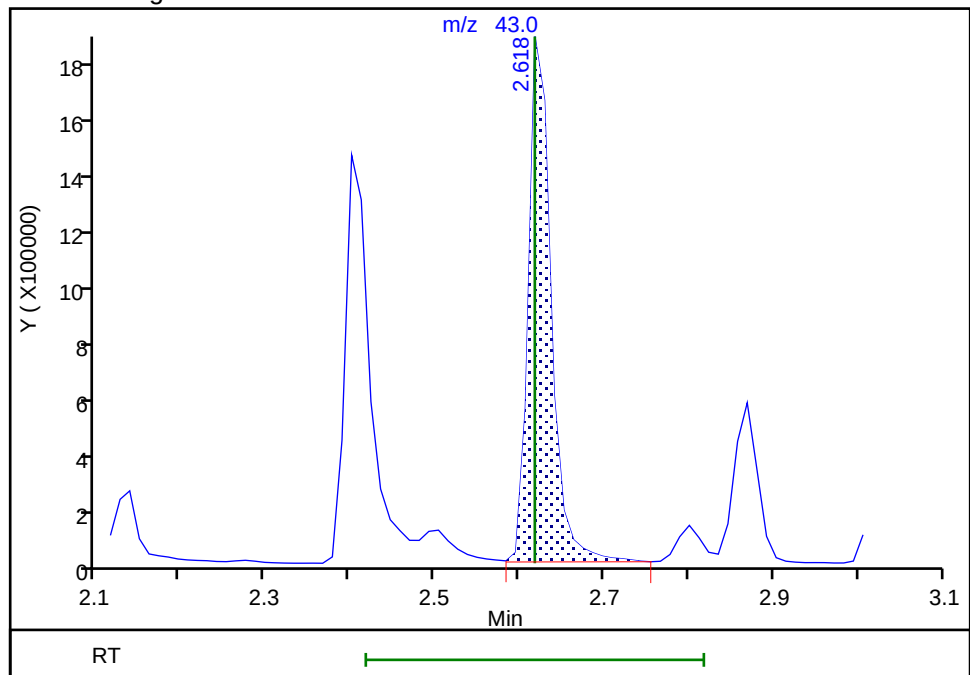
RT: 2.40  
Area: 2974154  
Amount: 999.6030  
Amount Units: ug/l

## Processing Integration Results



RT: 2.62  
Area: 3379193  
Amount: 850.7893  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:27:35

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75072.D

Injection Date: 20-Sep-2018 15:06:30

Instrument ID: CVOAMS8

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

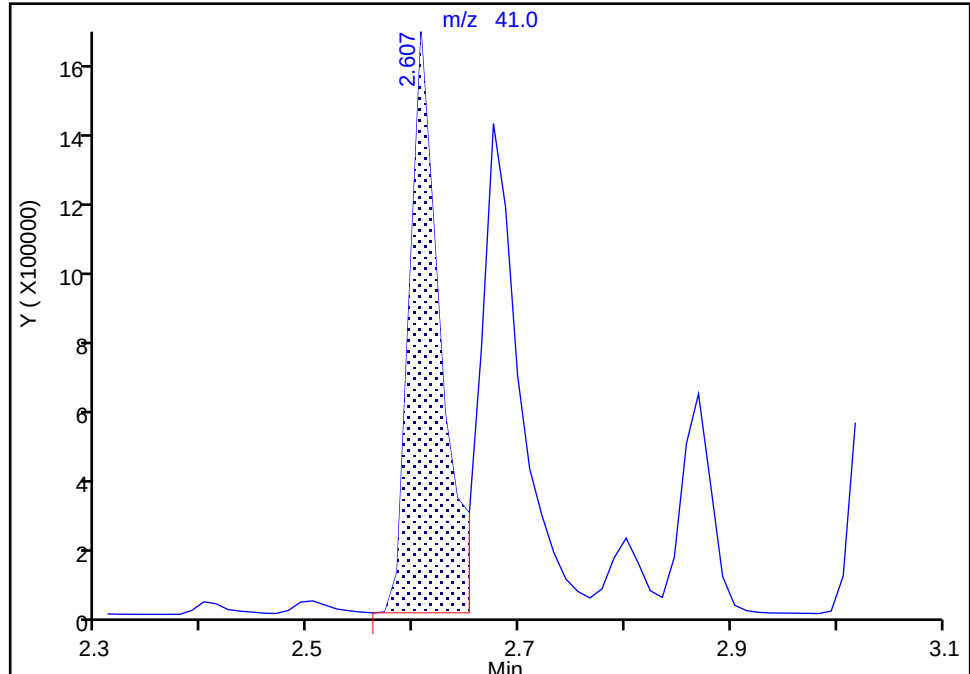
Detector: MS SCAN

**25 Acetonitrile, CAS: 75-05-8**

Signal: 1

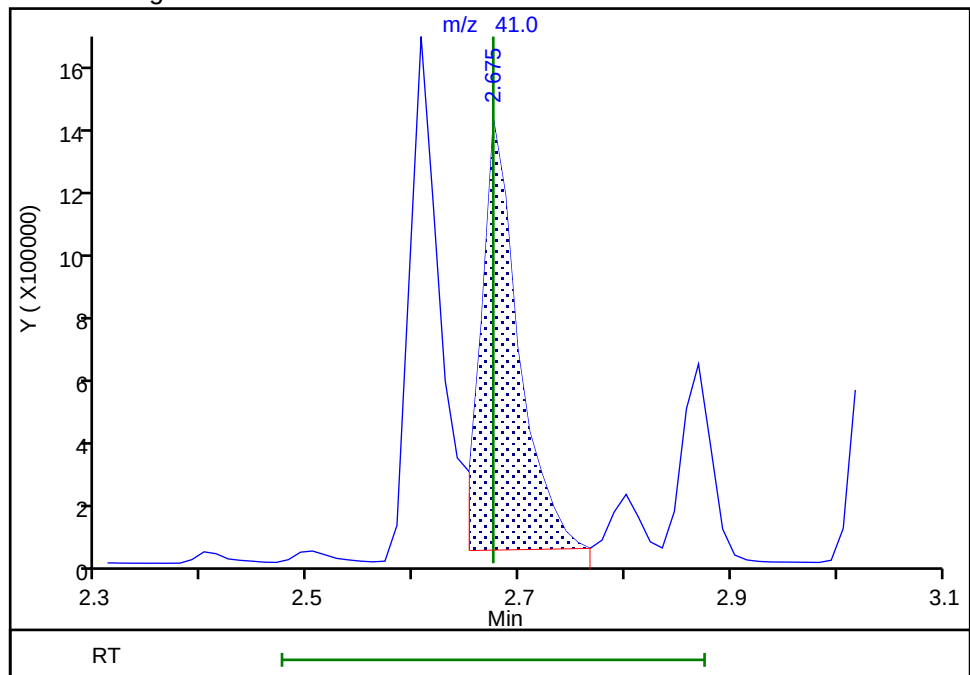
RT: 2.61  
Area: 3387686  
Amount: 4510.5262  
Amount Units: ug/l

## Processing Integration Results



RT: 2.68  
Area: 3335441  
Amount: 4755.7552  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:27:42

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75072.D

Injection Date: 20-Sep-2018 15:06:30

Instrument ID: CVOAMS8

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

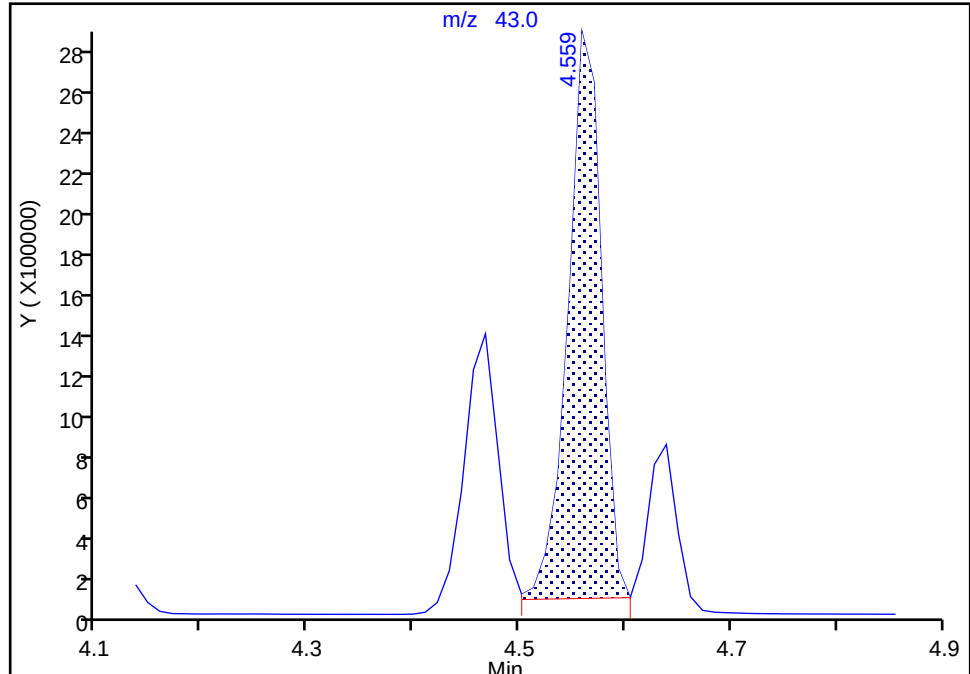
Detector: MS SCAN

**58 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

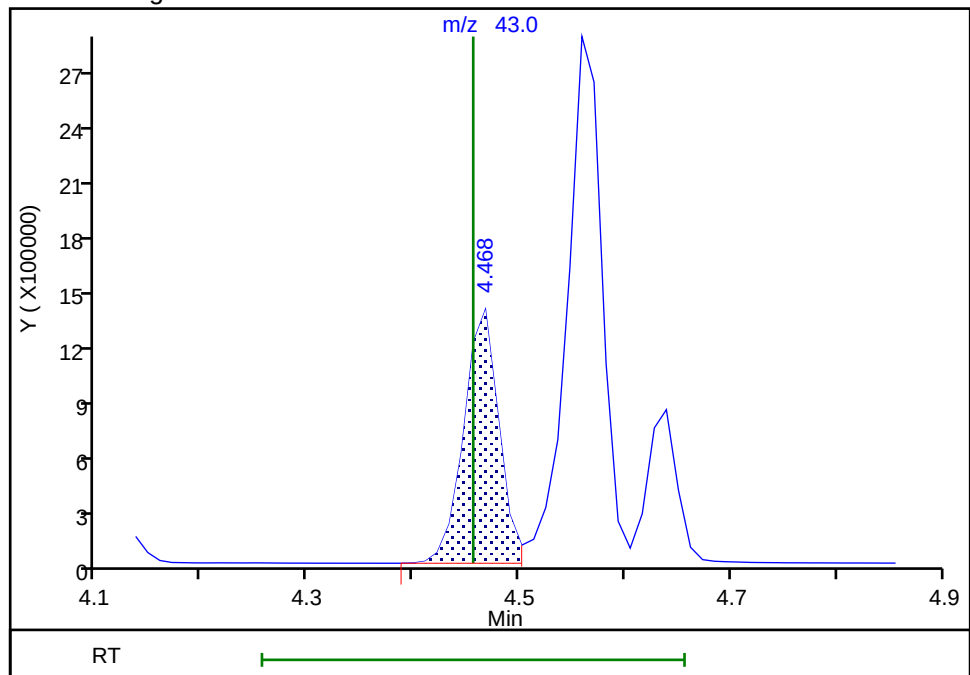
RT: 4.56  
Area: 6130034  
Amount: 12507  
Amount Units: ug/l

## Processing Integration Results



RT: 4.47  
Area: 3206490  
Amount: 13146  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:28:01

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75072.D

Injection Date: 20-Sep-2018 15:06:30

Instrument ID: CVOAMS8

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

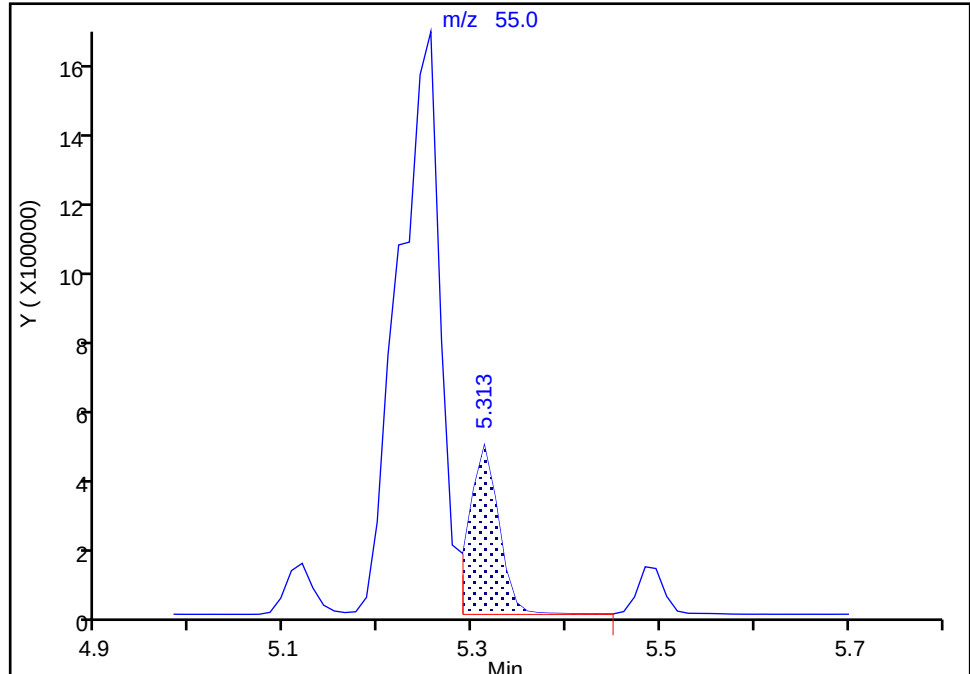
Detector: MS SCAN

**66 Ethyl acrylate, CAS: 140-88-5**

Signal: 1

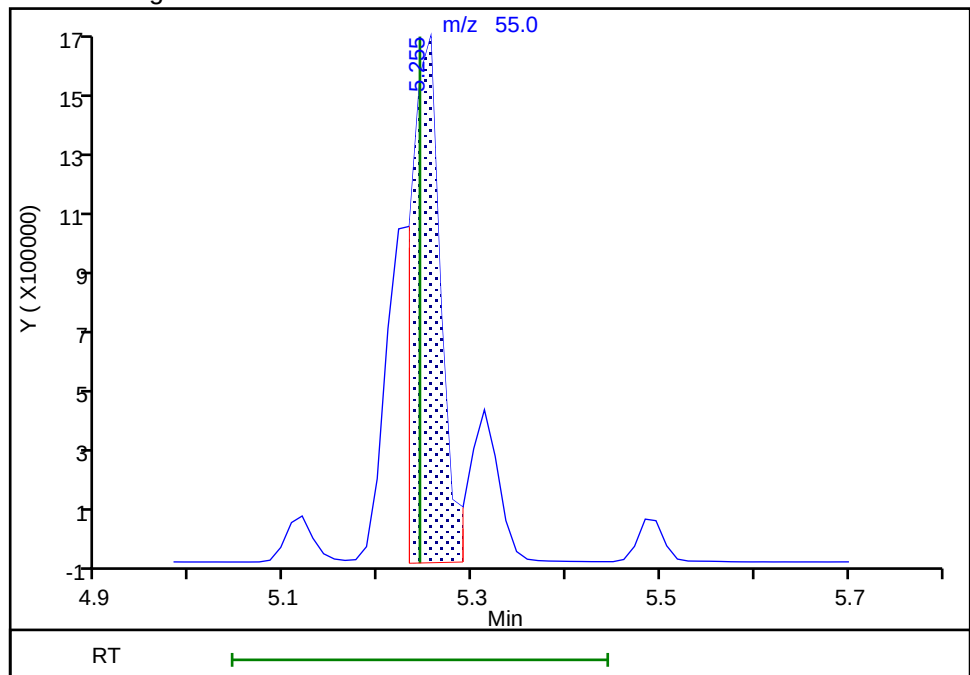
RT: 5.31  
Area: 1071923  
Amount: 179.7967  
Amount Units: ug/l

## Processing Integration Results



RT: 5.26  
Area: 3779460  
Amount: 554.2893  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:44:02

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75072.D

Injection Date: 20-Sep-2018 15:06:30

Instrument ID: CVOAMS8

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

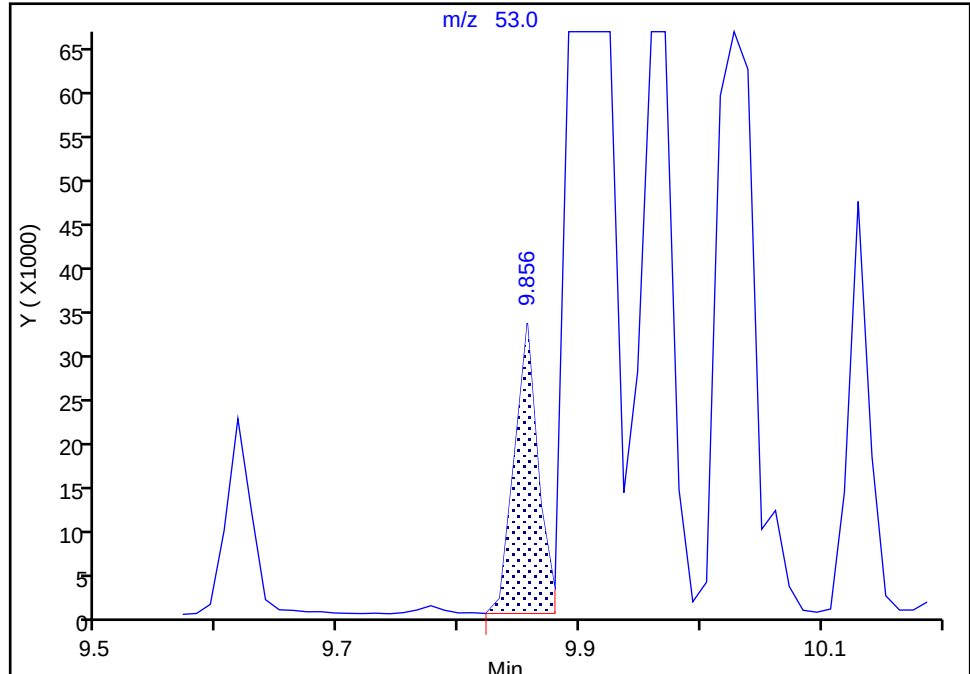
MS SCAN

**106 trans-1,4-Dichloro-2-butene, CAS: 110-57-6**

Signal: 1

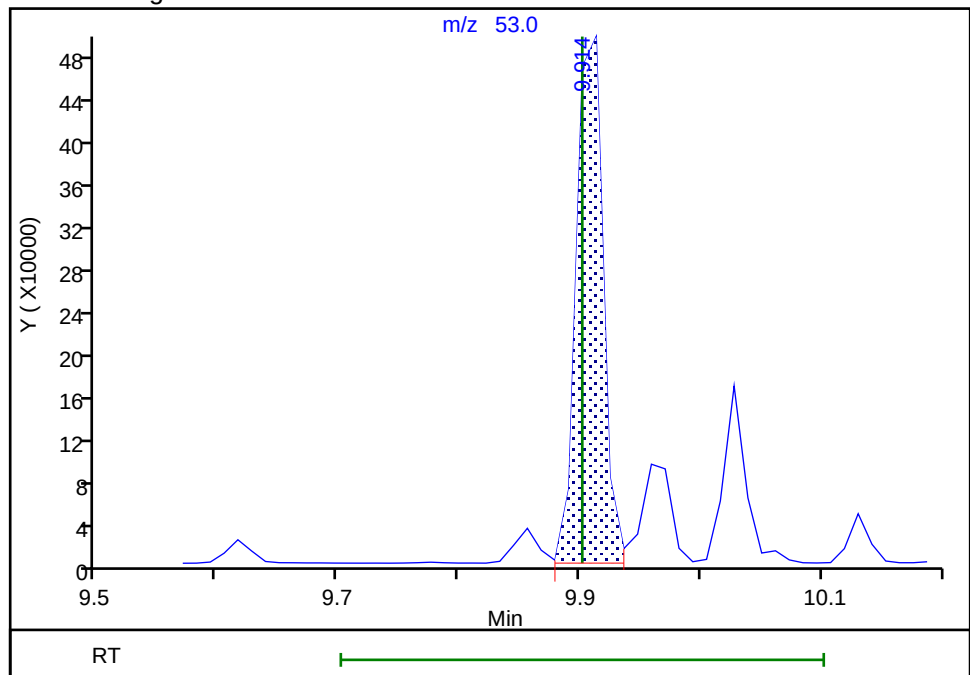
RT: 9.86  
Area: 45677  
Amount: 23.661875  
Amount Units: ug/l

## Processing Integration Results



RT: 9.91  
Area: 778861  
Amount: 469.7571  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:28:34

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75072.D

Injection Date: 20-Sep-2018 15:06:30

Instrument ID: CVOAMS8

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

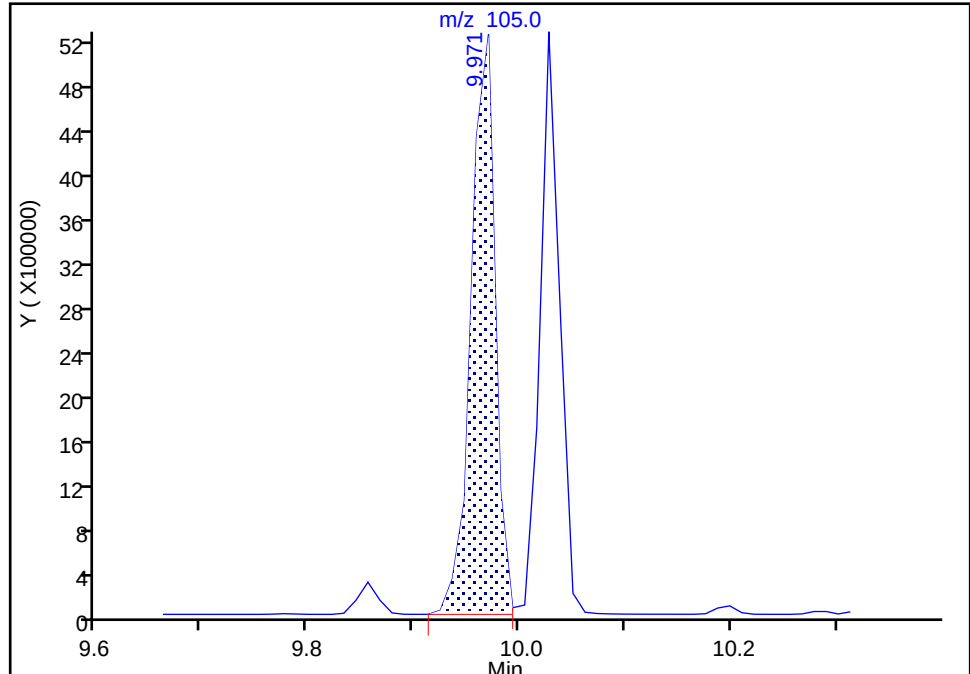
MS SCAN

**109 1,3,5-Trimethylbenzene, CAS: 108-67-8**

Signal: 1

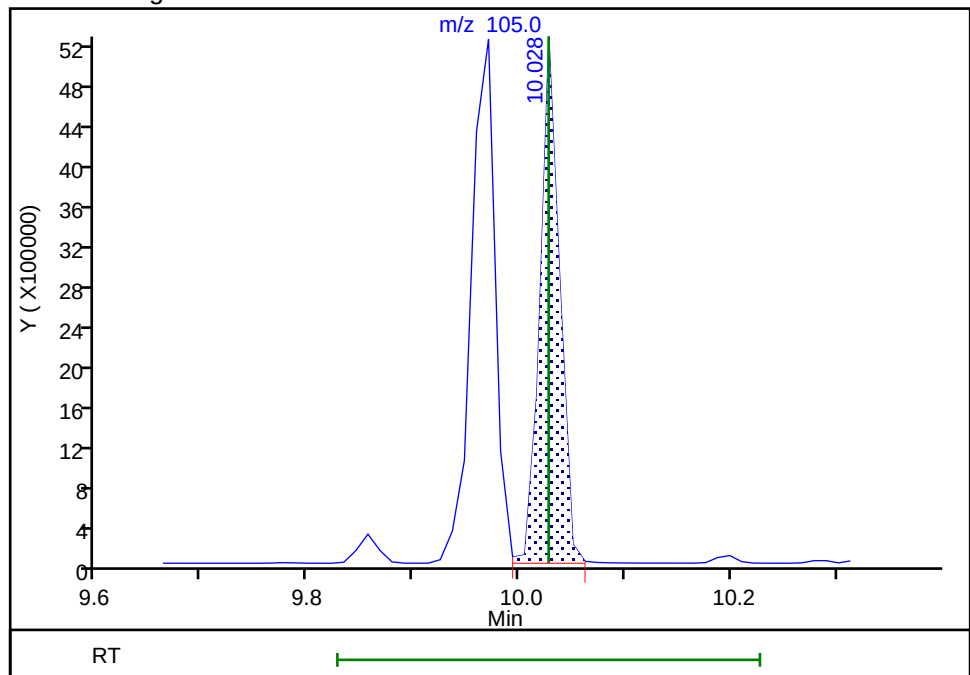
RT: 9.97  
Area: 8345677  
Amount: 580.1319  
Amount Units: ug/l

## Processing Integration Results



RT: 10.03  
Area: 6824121  
Amount: 523.1299  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 20-Sep-2018 17:28:50

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Lims ID: STD1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 20-Sep-2018 21:24:30 ALS Bottle#: 19 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: STD2  
 Misc. Info.: 460-0078971-015  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 21-Sep-2018 15:40:08 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK007

First Level Reviewer: boykink

Date: 20-Sep-2018 21:44:17

| Compound                      | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|-------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.192        | 1.191            | 0.001            | 82  | 586      | 1.00            | 1.03              |       |
| 2 Dichlorodifluoromethane     | 85  | 1.215        | 1.214            | 0.001            | 97  | 4008     | 1.00            | 0.9269            |       |
| 3 Chloromethane               | 50  | 1.397        | 1.408            | -0.011           | 99  | 4806     | 1.00            | 0.9450            |       |
| 4 Vinyl chloride              | 62  | 1.443        | 1.442            | 0.001            | 95  | 4953     | 1.00            | 1.04              |       |
| 5 Butadiene                   | 54  | 1.454        | 1.465            | -0.011           | 96  | 4212     | 1.00            | 1.05              |       |
| 6 Bromomethane                | 94  | 1.694        | 1.693            | 0.001            | 96  | 4046     | 1.00            | 1.00              |       |
| 7 Chloroethane                | 64  | 1.763        | 1.762            | 0.001            | 78  | 2737     | 1.00            | 1.17              |       |
| 9 Trichlorofluoromethane      | 101 | 1.923        | 1.922            | 0.001            | 95  | 4672     | 1.00            | 1.00              |       |
| 8 Dichlorofluoromethane       | 67  | 1.923        | 1.922            | 0.001            | 92  | 7638     | 1.00            | 1.17              |       |
| 10 Pentane                    | 72  | 1.957        | 1.956            | 0.001            | 94  | 801      | 2.00            | 1.81              |       |
| 11 Ethanol                    | 46  | 2.128        | 2.116            | 0.012            | 85  | 1021     | 40.0            | 46.4              |       |
| 12 Ethyl ether                | 59  | 2.139        | 2.138            | 0.001            | 94  | 2806     | 1.00            | 1.06              |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.151        | 2.150            | 0.001            | 94  | 2208     | 1.00            | 0.7593            |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.174        | 2.173            | 0.001            | 95  | 2383     | 1.00            | 0.9142            |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.276        | 2.275            | 0.001            | 96  | 2749     | 1.00            | 0.9309            |       |
| 16 Acrolein                   | 56  | 2.288        | 2.287            | 0.001            | 87  | 2850     | 4.00            | 4.32              |       |
| 17 1,1-Dichloroethene         | 96  | 2.311        | 2.310            | 0.001            | 96  | 2998     | 1.00            | 1.03              |       |
| 18 Acetone                    | 43  | 2.402        | 2.401            | 0.001            | 86  | 6377     | 5.00            | 5.66              |       |
| 19 Iodomethane                | 142 | 2.448        | 2.447            | 0.001            | 99  | 4833     | 1.00            | 1.04              |       |
| 20 Carbon disulfide           | 76  | 2.482        | 2.481            | 0.001            | 100 | 13422    | 1.00            | 1.16              |       |
| 21 Isopropyl alcohol          | 45  | 2.482        | 2.492            | -0.010           | 35  | 2836     | 10.0            | 11.4              |       |
| 22 3-Chloro-1-propene         | 76  | 2.608        | 2.607            | 0.001            | 93  | 2292     | 1.00            | 1.19              |       |
| 24 Methyl acetate             | 43  | 2.619        | 2.618            | 0.001            | 98  | 6275     | 2.00            | 2.03              |       |
| 23 Cyclopentene               | 67  | 2.619        | 2.618            | 0.001            | 90  | 6506     | 1.00            | 0.8152            |       |
| 25 Acetonitrile               | 41  | 2.676        | 2.675            | 0.001            | 79  | 5592     | 10.0            | 10.1              |       |
| 26 Methylene Chloride         | 84  | 2.722        | 2.721            | 0.001            | 31  | 5228     | 1.00            | 0.99              |       |
| * 27 TBA-d9 (IS)              | 65  | 2.722        | 2.732            | -0.010           | 0   | 307196   | 1000.0          | 1000.0            |       |
| 28 2-Methyl-2-propanol        | 59  | 2.790        | 2.801            | -0.011           | 4   | 4289     | 10.0            | 11.8              |       |
| 29 Methyl tert-butyl ether    | 73  | 2.870        | 2.869            | 0.001            | 97  | 8415     | 1.00            | 0.9725            |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.893        | 2.892            | 0.001            | 97  | 3487     | 1.00            | 1.05              |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 31 Acrylonitrile                 | 53  | 2.973     | 2.972         | 0.001         | 97  | 16667    | 10.0         | 10.8           |       |
| 32 Hexane                        | 57  | 3.030     | 3.029         | 0.001         | 91  | 3404     | 1.00         | 0.9766         |       |
| 33 Isopropyl ether               | 45  | 3.235     | 3.234         | 0.001         | 98  | 10869    | 1.00         | 0.9324         |       |
| 34 1,1-Dichloroethane            | 63  | 3.258     | 3.257         | 0.001         | 94  | 7013     | 1.00         | 1.10           |       |
| 35 Vinyl acetate                 | 43  | 3.281     | 3.280         | 0.001         | 100 | 15739    | 2.00         | 2.26           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.304     | 3.303         | 0.001         | 88  | 3112     | 1.00         | 1.04           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.532     | 3.531         | 0.001         | 86  | 8886     | 1.00         | 0.9094         |       |
| * 39 2-Butanone-d5               | 46  | 3.726     | 3.725         | 0.001         | 0   | 434417   | 250.0        | 250.0          |       |
| 38 2,2-Dichloropropane           | 79  | 3.726     | 3.725         | 0.001         | 45  | 2384     | 1.00         | 1.00           |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.761     | 3.760         | 0.001         | 94  | 3958     | 1.00         | 1.03           |       |
| 41 2-Butanone (MEK)              | 72  | 3.783     | 3.782         | 0.001         | 96  | 2500     | 5.00         | 5.57           |       |
| 42 Ethyl acetate                 | 70  | 3.783     | 3.782         | 0.001         | 94  | 925      | 2.00         | 2.11           |       |
| 43 Methyl acrylate               | 55  | 3.829     | 3.828         | 0.001         | 79  | 3989     | 1.00         | 1.12           |       |
| 44 Propionitrile                 | 54  | 3.909     | 3.908         | 0.001         | 97  | 6660     | 10.0         | 10.9           |       |
| 45 Tetrahydrofuran               | 72  | 3.966     | 3.977         | -0.011        | 53  | 766      | 2.00         | 1.67           |       |
| 46 Chlorobromomethane            | 128 | 3.966     | 3.977         | -0.011        | 90  | 2025     | 1.00         | 1.08           |       |
| 47 Methacrylonitrile             | 67  | 4.000     | 3.999         | 0.001         | 93  | 15125    | 10.0         | 9.96           |       |
| 48 Chloroform                    | 83  | 4.023     | 4.022         | 0.001         | 97  | 6157     | 1.00         | 1.05           |       |
| 49 Cyclohexane                   | 84  | 4.126     | 4.125         | 0.001         | 93  | 2965     | 1.00         | 0.7705         |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.149     | 4.148         | 0.001         | 98  | 4474     | 1.00         | 0.9563         |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.172     | 4.171         | 0.001         | 96  | 160311   | 50.0         | 52.7           |       |
| 52 Carbon tetrachloride          | 117 | 4.252     | 4.262         | -0.010        | 77  | 4114     | 1.00         | 1.00           |       |
| 53 1,1-Dichloropropene           | 75  | 4.297     | 4.296         | 0.001         | 96  | 3939     | 1.00         | 0.9383         |       |
| 54 Isooctane                     | 57  | 4.446     | 4.445         | 0.001         | 63  | 4680     | 1.00         | 0.8161         |       |
| 58 Isobutyl alcohol              | 43  | 4.457     | 4.456         | 0.001         | 79  | 4113     | 25.0         | 21.3           | a     |
| 55 Benzene                       | 78  | 4.491     | 4.490         | 0.001         | 91  | 12361    | 1.00         | 1.00           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.514     | 4.513         | 0.001         | 0   | 177983   | 50.0         | 53.6           |       |
| 59 Isopropyl acetate             | 43  | 4.560     | 4.559         | 0.001         | 91  | 8233     | 1.00         | 0.8483         |       |
| 57 Tert-amyl methyl ether        | 87  | 4.560     | 4.559         | 0.001         | 67  | 1685     | 1.00         | 1.01           |       |
| 60 1,2-Dichloroethane            | 62  | 4.583     | 4.582         | 0.001         | 95  | 5222     | 1.00         | 1.16           |       |
| 61 n-Heptane                     | 57  | 4.628     | 4.639         | -0.011        | 83  | 1360     | 1.00         | 1.03           |       |
| * 62 Fluorobenzene               | 96  | 4.765     | 4.764         | 0.001         | 98  | 564946   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.108     | 5.107         | 0.001         | 49  | 1779     | 25.0         | 20.5           |       |
| 64 Trichloroethene               | 95  | 5.108     | 5.118         | -0.010        | 97  | 3191     | 1.00         | 0.9607         |       |
| 65 Methylcyclohexane             | 83  | 5.222     | 5.221         | 0.001         | 86  | 2282     | 1.00         | 1.03           |       |
| 66 Ethyl acrylate                | 55  | 5.245     | 5.244         | 0.001         | 50  | 4278     | 1.00         | 0.8075         |       |
| 67 1,2-Dichloropropane           | 63  | 5.393     | 5.392         | 0.001         | 86  | 3476     | 1.00         | 0.9572         |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.473     | 5.472         | 0.001         | 0   | 28392    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.485     | 5.484         | 0.001         | 95  | 1360     | 2.00         | 1.67           |       |
| 71 Dibromomethane                | 93  | 5.530     | 5.529         | 0.001         | 93  | 2550     | 1.00         | 1.06           |       |
| 70 1,4-Dioxane                   | 88  | 5.519     | 5.529         | -0.010        | 52  | 1969     | 50.0         | 55.7           |       |
| 72 n-Propyl acetate              | 43  | 5.542     | 5.541         | 0.001         | 95  | 5587     | 1.00         | 1.01           |       |
| 73 Dichlorobromomethane          | 83  | 5.679     | 5.678         | 0.001         | 94  | 4633     | 1.00         | 0.99           |       |
| 74 2-Nitropropane                | 41  | 6.010     | 6.020         | -0.010        | 91  | 2428     | 2.00         | 2.50           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.021     | 6.020         | 0.001         | 55  | 1374     | 1.00         | 0.5596         |       |
| 76 Epichlorohydrin               | 57  | 6.124     | 6.123         | 0.001         | 97  | 5830     | 20.0         | 16.3           |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.170     | 6.169         | 0.001         | 92  | 4295     | 1.00         | 0.8728         |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.341     | 6.340         | 0.001         | 96  | 12364    | 5.00         | 5.10           |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.398     | 6.408         | -0.010        | 99  | 502359   | 50.0         | 50.9           |       |
| 80 Toluene                       | 91  | 6.478     | 6.477         | 0.001         | 91  | 13406    | 1.00         | 1.07           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.843     | 6.842         | 0.001         | 96  | 4192     | 1.00         | 0.9364         |       |
| 82 Ethyl methacrylate            | 69  | 6.877     | 6.876         | 0.001         | 83  | 2650     | 1.00         | 0.5733         |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 83 1,1,2-Trichloroethane        | 83  | 7.060     | 7.059         | 0.001         | 91 | 2842     | 1.00         | 1.03           |       |
| 84 Tetrachloroethene            | 166 | 7.083     | 7.082         | 0.001         | 95 | 3089     | 1.00         | 0.9766         |       |
| 85 1,3-Dichloropropane          | 76  | 7.266     | 7.265         | 0.001         | 96 | 4500     | 1.00         | 0.9531         |       |
| 86 2-Hexanone                   | 58  | 7.334     | 7.333         | 0.001         | 98 | 3218     | 5.00         | 5.14           |       |
| 87 n-Butyl acetate              | 43  | 7.448     | 7.447         | 0.001         | 86 | 3560     | 1.00         | 1.01           |       |
| 88 Chlorodibromomethane         | 129 | 7.483     | 7.493         | -0.011        | 95 | 3242     | 1.00         | 0.9324         |       |
| 89 Ethylene Dibromide           | 107 | 7.631     | 7.630         | 0.001         | 98 | 3094     | 1.00         | 0.9823         |       |
| * 90 Chlorobenzene-d5           | 117 | 8.179     | 8.178         | 0.001         | 86 | 413876   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.213     | 8.212         | 0.001         | 95 | 8550     | 1.00         | 1.02           |       |
| 92 Ethylbenzene                 | 106 | 8.316     | 8.315         | 0.001         | 97 | 3441     | 1.00         | 0.8531         |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.339     | 8.338         | 0.001         | 95 | 3087     | 1.00         | 1.00           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.476     | 8.475         | 0.001         | 0  | 3150     | 1.00         | 1.03           |       |
| 96 o-Xylene                     | 106 | 9.012     | 9.011         | 0.001         | 91 | 3063     | 1.00         | 1.03           |       |
| 95 n-Butyl acrylate             | 73  | 9.012     | 9.011         | 0.001         | 52 | 1204     | 1.00         | 0.4447         |       |
| 97 Styrene                      | 104 | 9.047     | 9.046         | 0.001         | 94 | 5485     | 1.00         | 1.03           |       |
| 99 Bromoform                    | 173 | 9.298     | 9.297         | 0.001         | 93 | 2243     | 1.00         | 0.9017         |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.298     | 9.297         | 0.001         | 90 | 3464     | 1.00         | 0.5601         |       |
| 100 Isopropylbenzene            | 105 | 9.435     | 9.434         | 0.001         | 96 | 7599     | 1.00         | 1.03           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.652     | 9.651         | 0.001         | 97 | 149997   | 50.0         | 48.1           |       |
| 102 Bromobenzene                | 156 | 9.777     | 9.776         | 0.001         | 96 | 3512     | 1.00         | 0.9528         |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.846     | 9.845         | 0.001         | 95 | 4692     | 1.00         | 1.06           |       |
| 104 N-Propylbenzene             | 91  | 9.857     | 9.856         | 0.001         | 99 | 10515    | 1.00         | 0.8045         |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.880     | 9.879         | 0.001         | 96 | 1255     | 1.00         | 1.16           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.914     | 9.902         | 0.012         | 64 | 1252     | 1.00         | 1.08           | a     |
| 107 2-Chlorotoluene             | 91  | 9.949     | 9.948         | 0.001         | 97 | 8396     | 1.00         | 0.8521         |       |
| 108 4-Ethyltoluene              | 105 | 9.960     | 9.959         | 0.001         | 98 | 8067     | 1.00         | 0.7241         |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.028    | 10.027        | 0.001         | 94 | 6602     | 1.00         | 0.7247         |       |
| 110 4-Chlorotoluene             | 91  | 10.051    | 10.062        | -0.011        | 98 | 7976     | 1.00         | 0.8481         |       |
| 111 Butyl Methacrylate          | 87  | 10.131    | 10.130        | 0.001         | 89 | 2243     | 1.00         | 0.5096         |       |
| 112 tert-Butylbenzene           | 119 | 10.280    | 10.279        | 0.001         | 91 | 5289     | 1.00         | 0.7407         |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.337    | 10.336        | 0.001         | 97 | 6443     | 1.00         | 1.02           |       |
| 114 sec-Butylbenzene            | 105 | 10.451    | 10.461        | -0.010        | 98 | 7172     | 1.00         | 0.7190         |       |
| 115 4-Isopropyltoluene          | 119 | 10.565    | 10.564        | 0.001         | 95 | 5561     | 1.00         | 0.5048         |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.565    | 10.564        | 0.001         | 94 | 6111     | 1.00         | 0.9319         |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.622    | 10.621        | 0.001         | 95 | 231972   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.645    | 10.644        | 0.001         | 93 | 7838     | 1.00         | 1.12           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.656    | 10.655        | 0.001         | 94 | 10045    | 1.00         | 0.9108         |       |
| 119 Benzyl chloride             | 91  | 10.748    | 10.747        | 0.001         | 98 | 6955     | 1.00         | 0.9448         |       |
| 120 2,3-Dihydroindene           | 117 | 10.793    | 10.792        | 0.001         | 90 | 9472     | 1.00         | 0.8453         |       |
| 121 p-Diethylbenzene            | 119 | 10.839    | 10.838        | 0.001         | 91 | 3957     | 1.00         | 0.8111         |       |
| 122 n-Butylbenzene              | 92  | 10.862    | 10.861        | 0.001         | 94 | 3668     | 1.00         | 0.8007         |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.908    | 10.907        | 0.001         | 97 | 6162     | 1.00         | 0.9547         |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.341    | 11.340        | 0.001         | 98 | 5444     | 1.00         | 0.5125         |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.410    | 11.420        | -0.010        | 92 | 710      | 1.00         | 1.02           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.490    | 11.500        | -0.010        | 97 | 3821     | 1.00         | 0.9434         |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.867    | 11.877        | -0.010        | 92 | 4118     | 1.00         | 1.07           |       |
| 128 Hexachlorobutadiene         | 225 | 11.924    | 11.934        | -0.010        | 92 | 1987     | 1.00         | 1.01           |       |
| 129 Naphthalene                 | 128 | 12.026    | 12.025        | 0.001         | 99 | 10223    | 1.00         | 1.01           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.175    | 12.185        | -0.010        | 94 | 4199     | 1.00         | 1.19           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0  |          | 2.00         | 2.08           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0  |          | 2.00         | 2.06           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0  |          | 5.00         | 4.98           |       |

**QC Flag Legend**

## Review Flags

a - User Assigned ID

**Reagents:**

|                   |                     |           |             |
|-------------------|---------------------|-----------|-------------|
| 14DIOXINTER_00088 | Amount Added: 30.00 | Units: uL |             |
| MIX I Hi_00097    | Amount Added: 1.00  | Units: uL |             |
| MIX 2 Hi_00074    | Amount Added: 1.00  | Units: uL |             |
| Ethanol mix_00019 | Amount Added: 1.00  | Units: uL |             |
| GAS Hi_00272      | Amount Added: 1.00  | Units: uL |             |
| ACROLEIN W_00080  | Amount Added: 4.00  | Units: uL |             |
| 8260ISNEW_00119   | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00181 | Amount Added: 1.00  | Units: uL | Run Reagent |



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20180920-78971.b\\J75078.D

Injection Date: 20-Sep-2018 21:24:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: STD1

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

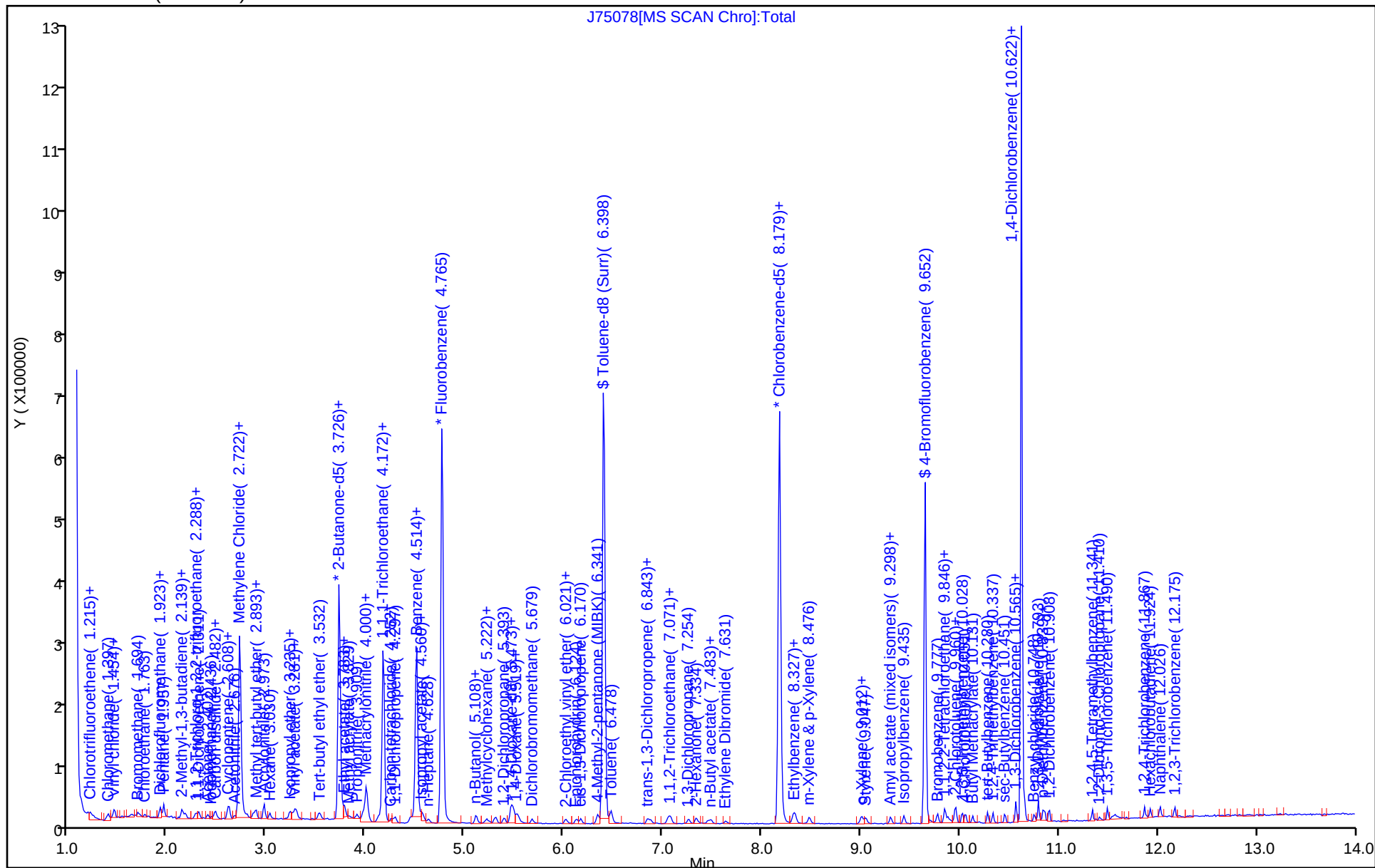
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D

Injection Date: 20-Sep-2018 21:24:30

Instrument ID: CVOAMS8

Lims ID: STD1

Client ID:

Operator ID:

ALS Bottle#:

19

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

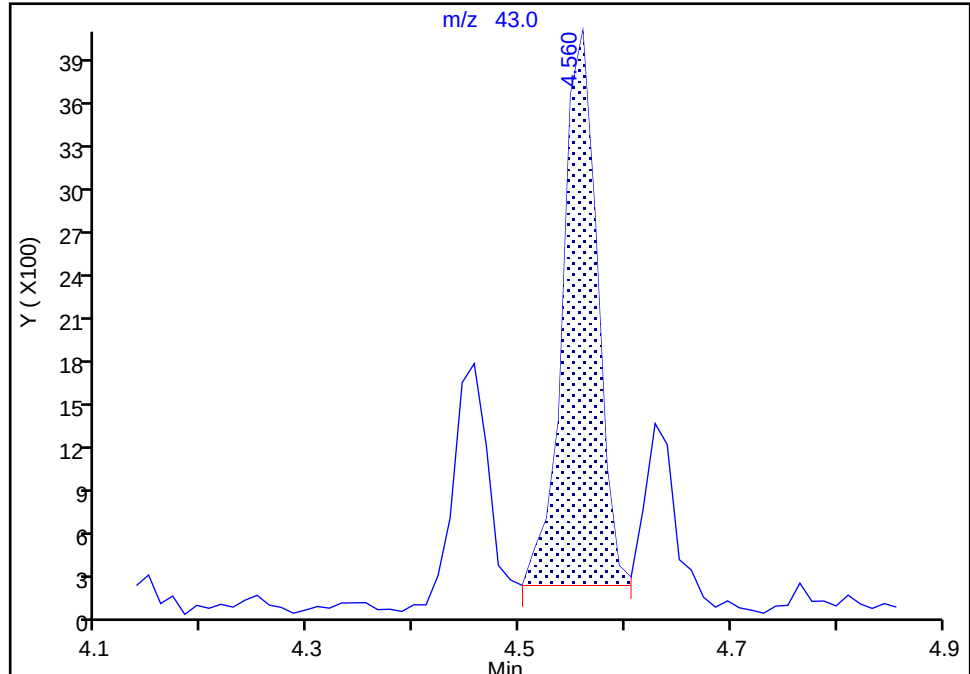
Detector: MS SCAN

**58 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

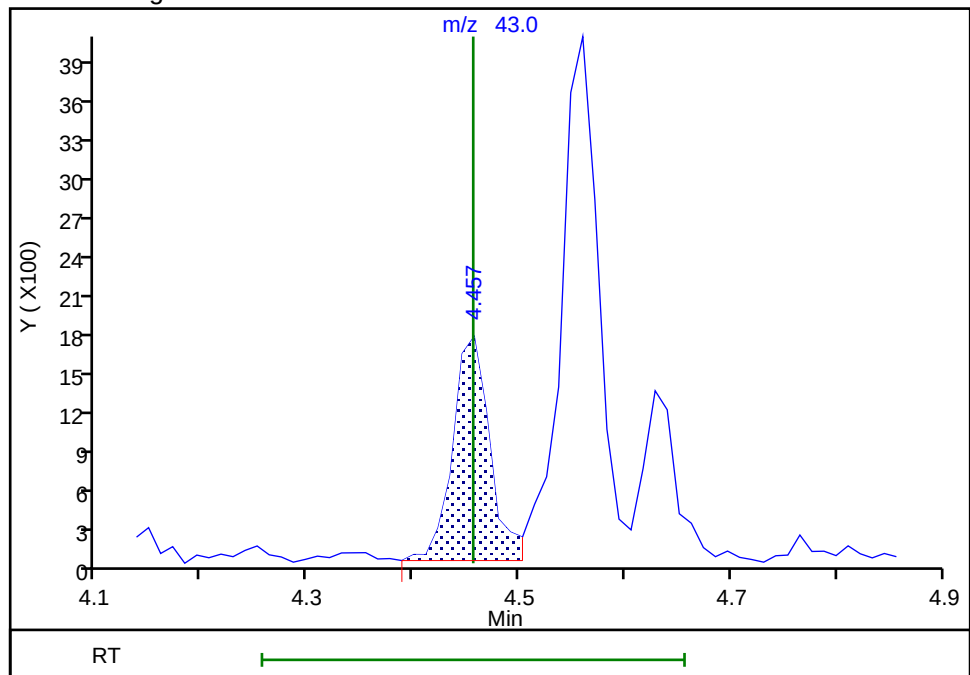
RT: 4.56  
Area: 8493  
Amount: 37.435840  
Amount Units: ug/l

## Processing Integration Results



RT: 4.46  
Area: 4113  
Amount: 21.261830  
Amount Units: ug/l

## Manual Integration Results



Reviewer: boykink, 20-Sep-2018 21:42:42

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D

Injection Date: 20-Sep-2018 21:24:30

Instrument ID: CVOAMS8

Lims ID: STD1

Client ID:

Operator ID:

ALS Bottle#:

19

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

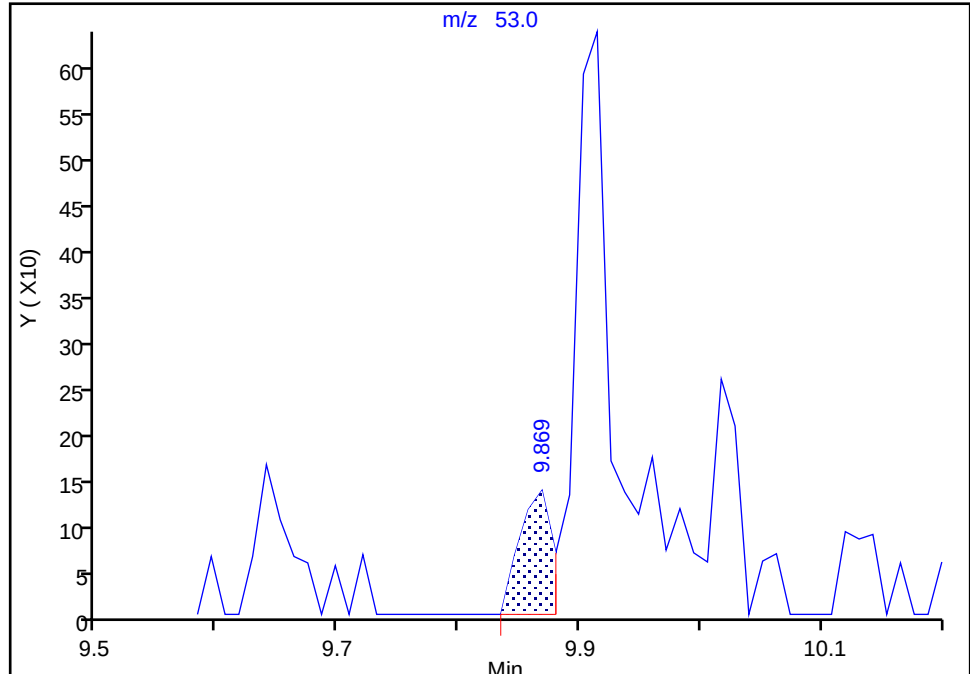
MS SCAN

**106 trans-1,4-Dichloro-2-butene, CAS: 110-57-6**

Signal: 1

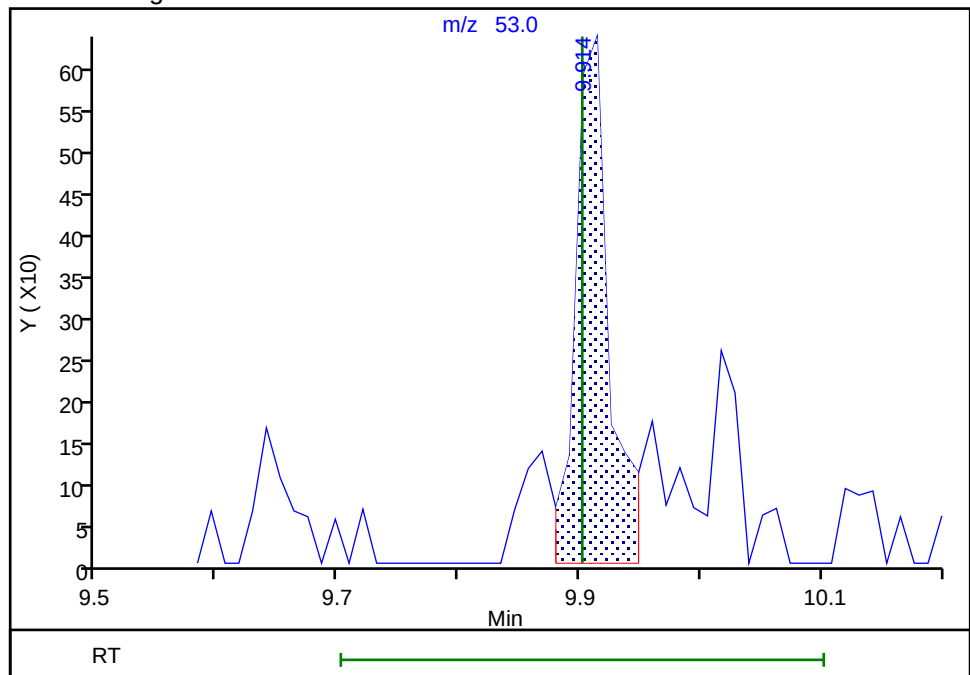
RT: 9.87  
Area: 260  
Amount: 0.219974  
Amount Units: ug/l

## Processing Integration Results



RT: 9.91  
Area: 1252  
Amount: 1.081216  
Amount Units: ug/l

## Manual Integration Results



Reviewer: pakanatir, 21-Sep-2018 10:16:22

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-558837/2 Calibration Date: 10/09/2018 19:38

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76037.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                               | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|---------------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Chlorotrifluoroethene                 | Ave        | 0.0506  | 0.0291 |         | 11.5        | 20.0         | -42.5* | 20.0   |
| Dichlorodifluoromethane               | Ave        | 0.3827  | 0.3470 | 0.1000  | 18.1        | 20.0         | -9.3   | 20.0   |
| Chloromethane                         | Ave        | 0.4501  | 0.3731 | 0.1000  | 16.6        | 20.0         | -17.1  | 20.0   |
| Vinyl chloride                        | Ave        | 0.4198  | 0.3768 | 0.1000  | 18.0        | 20.0         | -10.2  | 20.0   |
| Butadiene                             | Ave        | 0.3536  | 0.2745 |         | 15.5        | 20.0         | -22.4* | 20.0   |
| Bromomethane                          | Lin2       |         | 0.1251 | 0.1000  | 12.2        | 20.0         | -39.2  | 50.0   |
| Chloroethane                          | Ave        | 0.2065  | 0.2081 | 0.1000  | 20.2        | 20.0         | 0.8    | 50.0   |
| Trichlorofluoromethane                | Ave        | 0.4145  | 0.4746 | 0.1000  | 22.9        | 20.0         | 14.5   | 20.0   |
| Dichlorofluoromethane                 | Ave        | 0.5763  | 0.6462 |         | 22.4        | 20.0         | 12.1   | 20.0   |
| Pentane                               | Ave        | 1.440   | 1.369  |         | 38.0        | 40.0         | -4.9   | 20.0   |
| Ethanol                               | Ave        | 0.0716  | 0.0671 |         | 750         | 800          | -6.3   | 50.0   |
| Ethyl ether                           | Ave        | 0.2353  | 0.2068 |         | 17.6        | 20.0         | -12.1  | 20.0   |
| 2-Methyl-1,3-butadiene                | Ave        | 0.2574  | 0.1942 |         | 15.1        | 20.0         | -24.6* | 20.0   |
| 1,2-Dichloro-1,1,2-trifluoroethane    | Ave        | 0.2307  | 0.2371 |         | 20.6        | 20.0         | 2.8    | 20.0   |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave        | 0.2614  | 0.2473 | 0.1000  | 18.9        | 20.0         | -5.4   | 20.0   |
| Acrolein                              | Ave        | 2.150   | 2.162  |         | 40.2        | 40.0         | 0.6    | 50.0   |
| 1,1-Dichloroethene                    | Ave        | 0.2564  | 0.2525 | 0.1000  | 19.7        | 20.0         | -1.5   | 20.0   |
| Acetone                               | Ave        | 0.6485  | 0.7071 | 0.0500  | 109         | 100          | 9.0    | 50.0   |
| Iodomethane                           | Ave        | 0.4111  | 0.0588 |         | 2.86        | 20.0         | -85.7* | 20.0   |
| Carbon disulfide                      | Ave        | 1.023   | 0.9444 | 0.1000  | 18.5        | 20.0         | -7.7   | 50.0   |
| Isopropyl alcohol                     | Ave        | 0.8132  | 0.8197 |         | 202         | 200          | 0.8    | 50.0   |
| Allyl chloride                        | Ave        | 0.1712  | 0.1616 |         | 18.9        | 20.0         | -5.6   | 20.0   |
| Cyclopentene                          | Ave        | 0.7063  | 0.5667 |         | 16.0        | 20.0         | -19.8  | 20.0   |
| Methyl acetate                        | Ave        | 0.2731  | 0.2178 | 0.1000  | 31.9        | 40.0         | -20.3* | 20.0   |
| Acetonitrile                          | Ave        | 1.811   | 1.826  |         | 202         | 200          | 0.9    | 20.0   |
| Methylene Chloride                    | Lin2       |         | 0.3299 | 0.1000  | 20.4        | 20.0         | 2.2    | 20.0   |
| 2-Methyl-2-propanol                   | Ave        | 1.179   | 1.260  |         | 214         | 200          | 6.8    | 50.0   |
| Methyl tert-butyl ether               | Ave        | 0.7658  | 0.6966 | 0.1000  | 18.2        | 20.0         | -9.0   | 20.0   |
| trans-1,2-Dichloroethene              | Ave        | 0.2949  | 0.2960 | 0.1000  | 20.1        | 20.0         | 0.4    | 20.0   |
| Acrylonitrile                         | Ave        | 5.033   | 5.399  |         | 215         | 200          | 7.3    | 20.0   |
| Hexane                                | Ave        | 0.3085  | 0.2471 |         | 16.0        | 20.0         | -19.9  | 20.0   |
| Isopropyl ether                       | Ave        | 1.032   | 0.8048 |         | 15.6        | 20.0         | -22.0* | 20.0   |
| 1,1-Dichloroethane                    | Ave        | 0.5665  | 0.5209 | 0.2000  | 18.4        | 20.0         | -8.0   | 20.0   |
| Vinyl acetate                         | Ave        | 0.6162  | 0.5821 |         | 37.8        | 40.0         | -5.5   | 20.0   |
| 2-Chloro-1,3-butadiene                | Ave        | 0.2648  | 0.2466 |         | 18.6        | 20.0         | -6.9   | 20.0   |
| Tert-butyl ethyl ether                | Ave        | 0.8648  | 0.7142 |         | 16.5        | 20.0         | -17.4  | 20.0   |
| 2,2-Dichloropropane                   | Lin2       |         | 0.1330 |         | 19.7        | 20.0         | -1.7   | 20.0   |
| cis-1,2-Dichloroethene                | Ave        | 0.3388  | 0.3185 | 0.1000  | 18.8        | 20.0         | -6.0   | 20.0   |
| 2-Butanone (MEK)                      | Ave        | 0.2584  | 0.3115 | 0.0500  | 121         | 100          | 20.5   | 50.0   |
| Ethyl acetate                         | Ave        | 0.2526  | 0.2824 |         | 44.7        | 40.0         | 11.8   | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-558837/2 Calibration Date: 10/09/2018 19:38

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76037.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                     | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|-----------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Methyl acrylate             | Ave        | 0.3155  | 0.2367 |         | 15.0        | 20.0         | -25.0* | 20.0   |
| Propionitrile               | Ave        | 1.987   | 2.049  |         | 206         | 200          | 3.1    | 20.0   |
| Chlorobromomethane          | Ave        | 0.1658  | 0.1919 |         | 23.2        | 20.0         | 15.8   | 20.0   |
| Tetrahydrofuran             | Ave        | 0.2636  | 0.3111 |         | 47.2        | 40.0         | 18.0   | 20.0   |
| Methacrylonitrile           | Ave        | 0.1344  | 0.1281 |         | 191         | 200          | -4.7   | 20.0   |
| Chloroform                  | Ave        | 0.5187  | 0.5388 | 0.2000  | 20.8        | 20.0         | 3.9    | 20.0   |
| Cyclohexane                 | Ave        | 0.3406  | 0.3049 | 0.1000  | 17.9        | 20.0         | -10.5  | 50.0   |
| 1,1,1-Trichloroethane       | Ave        | 0.4141  | 0.4179 | 0.1000  | 20.2        | 20.0         | 0.9    | 20.0   |
| Carbon tetrachloride        | Ave        | 0.3628  | 0.3687 | 0.1000  | 20.3        | 20.0         | 1.6    | 20.0   |
| 1,1-Dichloropropene         | Ave        | 0.3715  | 0.3221 |         | 17.3        | 20.0         | -13.3  | 20.0   |
| 2,2,4-Trimethylpentane      | Ave        | 0.5075  | 0.4130 |         | 16.3        | 20.0         | -18.6  | 20.0   |
| Isobutyl alcohol            | Ave        | 0.6297  | 0.6228 |         | 495         | 500          | -1.1   | 50.0   |
| Benzene                     | Ave        | 1.489   | 1.458  | 0.5000  | 19.6        | 20.0         | -2.1   | 20.0   |
| Isopropyl acetate           | Ave        | 0.8590  | 0.6882 |         | 16.0        | 20.0         | -19.9  | 20.0   |
| Tert-amyl methyl ether      | Lin2       |         | 0.2093 |         | 17.9        | 20.0         | -10.6  | 20.0   |
| 1,2-Dichloroethane          | Ave        | 0.3974  | 0.3754 | 0.1000  | 18.9        | 20.0         | -5.6   | 20.0   |
| n-Heptane                   | Ave        | 0.1171  | 0.1015 |         | 17.3        | 20.0         | -13.3  | 20.0   |
| n-Butanol                   | Ave        | 0.2823  | 0.2501 |         | 443         | 500          | -11.4  | 50.0   |
| Trichloroethene             | Ave        | 0.2940  | 0.2904 | 0.2000  | 19.8        | 20.0         | -1.2   | 20.0   |
| Methylcyclohexane           | Lin2       |         | 0.3008 | 0.1000  | 17.2        | 20.0         | -13.8  | 50.0   |
| Ethyl acrylate              | Ave        | 0.4689  | 0.5538 |         | 23.6        | 20.0         | 18.1   | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.3214  | 0.2927 | 0.1000  | 18.2        | 20.0         | -8.9   | 20.0   |
| Methyl methacrylate         | Ave        | 0.0722  | 0.0737 |         | 40.8        | 40.0         | 2.0    | 20.0   |
| 1,4-Dioxane                 | Ave        | 1.245   | 1.293  |         | 415         | 400          | 3.8    | 50.0   |
| Dibromomethane              | Ave        | 0.2139  | 0.2216 |         | 20.7        | 20.0         | 3.6    | 20.0   |
| n-Propyl acetate            | Ave        | 0.4891  | 0.3825 |         | 15.6        | 20.0         | -21.8* | 20.0   |
| Dichlorobromomethane        | Ave        | 0.4128  | 0.4056 | 0.2000  | 19.7        | 20.0         | -1.7   | 20.0   |
| 2-Nitropropane              | Ave        | 3.162   | 3.179  |         | 40.2        | 40.0         | 0.5    | 20.0   |
| 2-Chloroethyl vinyl ether   | QuaF       |         | 0.1300 |         | 12.0        | 20.0         | -40.2* | 20.0   |
| Epichlorohydrin             | Ave        | 0.2060  | 0.5052 |         | 981         | 400          | 145.3* | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.5945  | 0.5684 | 0.2000  | 19.1        | 20.0         | -4.4   | 50.0   |
| 4-Methyl-2-pentanone (MIBK) | Lin2       |         | 2.281  | 0.0500  | 108         | 100          | 7.8    | 50.0   |
| Toluene                     | Ave        | 1.520   | 1.451  | 0.4000  | 19.1        | 20.0         | -4.5   | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5408  | 0.4631 | 0.1000  | 17.1        | 20.0         | -14.4  | 50.0   |
| Ethyl methacrylate          | QuaF       |         | 0.2677 |         | 13.1        | 20.0         | -34.4* | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3335  | 0.3114 | 0.1000  | 18.7        | 20.0         | -6.6   | 20.0   |
| Tetrachloroethene           | Ave        | 0.3821  | 0.4293 | 0.2000  | 22.5        | 20.0         | 12.3   | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5704  | 0.5086 |         | 17.8        | 20.0         | -10.8  | 20.0   |
| 2-Hexanone                  | Qua2       |         | 0.8032 | 0.0500  | 109         | 100          | 9.0    | 50.0   |
| n-Butyl acetate             | Lin2       |         | 0.4533 |         | 14.5        | 20.0         | -27.4* | 20.0   |
| Chlorodibromomethane        | Ave        | 0.4200  | 0.4554 | 0.1000  | 21.7        | 20.0         | 8.4    | 50.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-558837/2 Calibration Date: 10/09/2018 19:38

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76037.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Ethylene Dibromide           | Ave        | 0.3805  | 0.3779 | 0.1000  | 19.9        | 20.0         | -0.7   | 20.0   |
| Chlorobenzene                | Ave        | 1.018   | 1.033  | 0.5000  | 20.3        | 20.0         | 1.5    | 20.0   |
| Ethylbenzene                 | Ave        | 0.4873  | 0.4687 | 0.1000  | 19.2        | 20.0         | -3.8   | 20.0   |
| 1,1,1,2-Tetrachloroethane    | Ave        | 0.3732  | 0.3959 |         | 21.2        | 20.0         | 6.1    | 20.0   |
| m-Xylene & p-Xylene          | Lin2       |         | 0.5325 | 0.1000  | 18.1        | 20.0         | -9.3   | 20.0   |
| o-Xylene                     | Lin2       |         | 0.5031 | 0.3000  | 17.3        | 20.0         | -13.4  | 20.0   |
| n-Butyl acrylate             | QuaF       |         | 0.2067 |         | 12.6        | 20.0         | -36.8* | 20.0   |
| Styrene                      | Lin2       |         | 1.033  | 0.3000  | 19.6        | 20.0         | -1.9   | 20.0   |
| Amyl acetate (mixed isomers) | QuaF       |         | 0.7132 |         | 10.7        | 20.0         | -46.4* | 20.0   |
| Bromoform                    | Ave        | 0.3005  | 0.3246 | 0.1000  | 21.6        | 20.0         | 8.0    | 20.0   |
| Isopropylbenzene             | Lin2       |         | 1.309  | 0.1000  | 18.8        | 20.0         | -6.1   | 20.0   |
| Bromobenzene                 | Ave        | 0.7945  | 0.7882 |         | 19.8        | 20.0         | -0.8   | 20.0   |
| 1,1,2,2-Tetrachloroethane    | Ave        | 0.9579  | 0.8448 | 0.3000  | 17.6        | 20.0         | -11.8  | 20.0   |
| N-Propylbenzene              | Ave        | 2.817   | 2.454  |         | 17.4        | 20.0         | -12.9  | 20.0   |
| 1,2,3-Trichloropropane       | Ave        | 0.2331  | 0.2068 |         | 17.7        | 20.0         | -11.3  | 20.0   |
| trans-1,4-Dichloro-2-butene  | Ave        | 0.2496  | 0.1792 |         | 14.4        | 20.0         | -28.2* | 20.0   |
| 2-Chlorotoluene              | Ave        | 2.124   | 1.938  |         | 18.3        | 20.0         | -8.7   | 20.0   |
| 4-Ethyltoluene               | Ave        | 2.401   | 2.315  |         | 19.3        | 20.0         | -3.6   | 20.0   |
| 1,3,5-Trimethylbenzene       | Ave        | 1.964   | 1.801  |         | 18.3        | 20.0         | -8.3   | 20.0   |
| 4-Chlorotoluene              | Ave        | 2.027   | 1.883  |         | 18.6        | 20.0         | -7.1   | 20.0   |
| Butyl Methacrylate           | QuaF       |         | 0.6704 |         | 14.1        | 20.0         | -29.3* | 20.0   |
| tert-Butylbenzene            | Ave        | 1.539   | 1.430  |         | 18.6        | 20.0         | -7.1   | 20.0   |
| 1,2,4-Trimethylbenzene       | Lin2       |         | 1.976  |         | 17.9        | 20.0         | -10.5  | 20.0   |
| sec-Butylbenzene             | Ave        | 2.150   | 2.030  |         | 18.9        | 20.0         | -5.6   | 20.0   |
| 1,3-Dichlorobenzene          | Ave        | 1.413   | 1.484  | 0.6000  | 21.0        | 20.0         | 5.0    | 20.0   |
| 4-Isopropyltoluene           | QuaF       |         | 1.741  |         | 14.7        | 20.0         | -26.3* | 20.0   |
| 1,4-Dichlorobenzene          | Ave        | 1.508   | 1.513  | 0.5000  | 20.1        | 20.0         | 0.3    | 20.0   |
| 1,2,3-Trimethylbenzene       | Ave        | 2.377   | 2.249  |         | 18.9        | 20.0         | -5.4   | 20.0   |
| Benzyl chloride              | Ave        | 1.587   | 1.386  |         | 17.5        | 20.0         | -12.6  | 50.0   |
| Indan                        | Ave        | 2.415   | 2.339  |         | 19.4        | 20.0         | -3.2   | 20.0   |
| p-Diethylbenzene             | Ave        | 1.051   | 1.033  |         | 19.7        | 20.0         | -1.7   | 20.0   |
| n-Butylbenzene               | Ave        | 0.9874  | 0.9280 |         | 18.8        | 20.0         | -6.0   | 20.0   |
| 1,2-Dichlorobenzene          | Ave        | 1.391   | 1.453  | 0.4000  | 20.9        | 20.0         | 4.5    | 20.0   |
| 1,2,4,5-Tetramethylbenzene   | QuaF       |         | 1.568  |         | 13.8        | 20.0         | -31.2* | 20.0   |
| 1,2-Dibromo-3-Chloropropane  | Ave        | 0.1493  | 0.1365 | 0.0500  | 18.3        | 20.0         | -8.6   | 50.0   |
| 1,3,5-Trichlorobenzene       | Ave        | 0.8730  | 0.9044 |         | 20.7        | 20.0         | 3.6    | 20.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.8331  | 0.7740 | 0.2000  | 18.6        | 20.0         | -7.1   | 20.0   |
| Hexachlorobutadiene          | Lin2       |         | 0.3182 |         | 22.6        | 20.0         | 13.1   | 20.0   |
| Naphthalene                  | Ave        | 2.183   | 1.670  |         | 15.3        | 20.0         | -23.5  | 50.0   |
| 1,2,3-Trichlorobenzene       | Ave        | 0.7595  | 0.6784 |         | 17.9        | 20.0         | -10.7  | 20.0   |
| Dibromofluoromethane (Surr)  | Ave        | 0.2691  | 0.2732 |         | 50.8        | 50.0         | 1.5    | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCVIS 460-558837/2 Calibration Date: 10/09/2018 19:38  
Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25  
GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24  
Lab File ID: J76037.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.2941  | 0.2613 |         | 44.4           | 50.0            | -11.2 | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.192   | 1.123  |         | 47.1           | 50.0            | -5.8  | 20.0      |
| 4-Bromofluorobenzene         | Ave           | 0.3770  | 0.3971 |         | 52.7           | 50.0            | 5.3   | 20.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76037.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 09-Oct-2018 19:38:30 ALS Bottle#: 1 Worklist Smp#: 2  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 460-0080013-002  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:38:35 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0309

First Level Reviewer: parekhv

Date: 09-Oct-2018 20:05:27

| Compound                      | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|-------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.191        | 1.191            | 0.000            | 91  | 5065     | 20.0            | 11.5              |       |
| 2 Dichlorodifluoromethane     | 85  | 1.214        | 1.214            | 0.000            | 99  | 60415    | 20.0            | 18.1              |       |
| 3 Chloromethane               | 50  | 1.396        | 1.396            | 0.000            | 99  | 64954    | 20.0            | 16.6              |       |
| 4 Vinyl chloride              | 62  | 1.442        | 1.442            | 0.000            | 98  | 65603    | 20.0            | 18.0              |       |
| 5 Butadiene                   | 54  | 1.465        | 1.465            | 0.000            | 97  | 47788    | 20.0            | 15.5              |       |
| 6 Bromomethane                | 94  | 1.682        | 1.682            | 0.000            | 98  | 21784    | 20.0            | 12.2              |       |
| 7 Chloroethane                | 64  | 1.762        | 1.762            | 0.000            | 99  | 36237    | 20.0            | 20.2              |       |
| 9 Trichlorofluoromethane      | 101 | 1.910        | 1.910            | 0.000            | 99  | 82625    | 20.0            | 22.9              |       |
| 8 Dichlorofluoromethane       | 67  | 1.921        | 1.921            | 0.000            | 98  | 112497   | 20.0            | 22.4              |       |
| 10 Pentane                    | 72  | 1.956        | 1.956            | 0.000            | 94  | 10074    | 40.0            | 38.0              |       |
| 11 Ethanol                    | 46  | 2.116        | 2.116            | 0.000            | 98  | 9880     | 800.0           | 749.6             |       |
| 12 Ethyl ether                | 59  | 2.138        | 2.138            | 0.000            | 95  | 36010    | 20.0            | 17.6              |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.150        | 2.150            | 0.000            | 96  | 33805    | 20.0            | 15.1              |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.173        | 2.173            | 0.000            | 93  | 41282    | 20.0            | 20.6              |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.275        | 2.275            | 0.000            | 96  | 43052    | 20.0            | 18.9              |       |
| 16 Acrolein                   | 56  | 2.287        | 2.287            | 0.000            | 95  | 15913    | 40.0            | 40.2              |       |
| 17 1,1-Dichloroethene         | 96  | 2.310        | 2.310            | 0.000            | 95  | 43957    | 20.0            | 19.7              |       |
| 18 Acetone                    | 43  | 2.401        | 2.401            | 0.000            | 88  | 66699    | 100.0           | 109.0             |       |
| 19 Iodomethane                | 142 | 2.447        | 2.447            | 0.000            | 97  | 10234    | 20.0            | 2.86              |       |
| 20 Carbon disulfide           | 76  | 2.469        | 2.469            | 0.000            | 98  | 164419   | 20.0            | 18.5              |       |
| 21 Isopropyl alcohol          | 45  | 2.492        | 2.492            | 0.000            | 98  | 30163    | 200.0           | 201.6             |       |
| 22 3-Chloro-1-propene         | 76  | 2.595        | 2.595            | 0.000            | 92  | 28125    | 20.0            | 18.9              |       |
| 23 Cyclopentene               | 67  | 2.618        | 2.618            | 0.000            | 91  | 98665    | 20.0            | 16.0              |       |
| 24 Methyl acetate             | 43  | 2.618        | 2.618            | 0.000            | 100 | 75828    | 40.0            | 31.9              |       |
| 25 Acetonitrile               | 41  | 2.675        | 2.675            | 0.000            | 100 | 67207    | 200.0           | 201.7             |       |
| 26 Methylene Chloride         | 84  | 2.721        | 2.721            | 0.000            | 89  | 57433    | 20.0            | 20.4              |       |
| * 27 TBA-d9 (IS)              | 65  | 2.732        | 2.732            | 0.000            | 0   | 183993   | 1000.0          | 1000.0            |       |
| 28 2-Methyl-2-propanol        | 59  | 2.789        | 2.789            | 0.000            | 99  | 46354    | 200.0           | 213.7             |       |
| 29 Methyl tert-butyl ether    | 73  | 2.869        | 2.869            | 0.000            | 97  | 121267   | 20.0            | 18.2              |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.892        | 2.892            | 0.000            | 93  | 51539    | 20.0            | 20.1              |       |



| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 31 Acrylonitrile                 | 53  | 2.972     | 2.972         | 0.000         | 94  | 198659   | 200.0        | 214.5          |       |
| 32 Hexane                        | 57  | 3.029     | 3.029         | 0.000         | 93  | 43021    | 20.0         | 16.0           |       |
| 33 Isopropyl ether               | 45  | 3.234     | 3.234         | 0.000         | 98  | 140118   | 20.0         | 15.6           |       |
| 34 1,1-Dichloroethane            | 63  | 3.257     | 3.257         | 0.000         | 99  | 90687    | 20.0         | 18.4           |       |
| 35 Vinyl acetate                 | 43  | 3.280     | 3.280         | 0.000         | 100 | 202687   | 40.0         | 37.8           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.303     | 3.303         | 0.000         | 89  | 42930    | 20.0         | 18.6           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.531     | 3.531         | 0.000         | 90  | 124331   | 20.0         | 16.5           |       |
| 38 2,2-Dichloropropane           | 79  | 3.714     | 3.714         | 0.000         | 87  | 23159    | 20.0         | 19.7           |       |
| * 39 2-Butanone-d5               | 46  | 3.725     | 3.725         | 0.000         | 0   | 235810   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.748     | 3.748         | 0.000         | 99  | 55452    | 20.0         | 18.8           |       |
| 41 2-Butanone (MEK)              | 72  | 3.782     | 3.782         | 0.000         | 96  | 29383    | 100.0        | 120.5          |       |
| 42 Ethyl acetate                 | 70  | 3.782     | 3.782         | 0.000         | 95  | 10655    | 40.0         | 44.7           |       |
| 43 Methyl acrylate               | 55  | 3.828     | 3.828         | 0.000         | 100 | 41216    | 20.0         | 15.0           |       |
| 44 Propionitrile                 | 54  | 3.908     | 3.908         | 0.000         | 98  | 75416    | 200.0        | 206.2          |       |
| 46 Chlorobromomethane            | 128 | 3.965     | 3.965         | 0.000         | 89  | 33410    | 20.0         | 23.2           |       |
| 45 Tetrahydrofuran               | 72  | 3.976     | 3.976         | 0.000         | 92  | 11739    | 40.0         | 47.2           |       |
| 47 Methacrylonitrile             | 67  | 3.999     | 3.999         | 0.000         | 92  | 222979   | 200.0        | 190.6          |       |
| 48 Chloroform                    | 83  | 4.022     | 4.022         | 0.000         | 99  | 93794    | 20.0         | 20.8           |       |
| 49 Cyclohexane                   | 84  | 4.125     | 4.125         | 0.000         | 92  | 53079    | 20.0         | 17.9           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.148     | 4.148         | 0.000         | 98  | 72750    | 20.0         | 20.2           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.171     | 4.171         | 0.000         | 98  | 118885   | 50.0         | 50.8           |       |
| 52 Carbon tetrachloride          | 117 | 4.262     | 4.262         | 0.000         | 98  | 64188    | 20.0         | 20.3           |       |
| 53 1,1-Dichloropropene           | 75  | 4.296     | 4.296         | 0.000         | 97  | 56084    | 20.0         | 17.3           |       |
| 54 Isooctane                     | 57  | 4.445     | 4.445         | 0.000         | 93  | 71906    | 20.0         | 16.3           |       |
| 58 Isobutyl alcohol              | 43  | 4.456     | 4.456         | 0.000         | 95  | 57295    | 500.0        | 494.5          |       |
| 55 Benzene                       | 78  | 4.479     | 4.479         | 0.000         | 96  | 206281   | 20.0         | 19.6           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513     | 4.513         | 0.000         | 0   | 113732   | 50.0         | 44.4           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.559     | 4.559         | 0.000         | 92  | 36441    | 20.0         | 17.9           |       |
| 59 Isopropyl acetate             | 43  | 4.559     | 4.559         | 0.000         | 96  | 119816   | 20.0         | 16.0           |       |
| 60 1,2-Dichloroethane            | 62  | 4.582     | 4.582         | 0.000         | 97  | 65348    | 20.0         | 18.9           |       |
| 61 n-Heptane                     | 57  | 4.627     | 4.627         | 0.000         | 90  | 17674    | 20.0         | 17.3           |       |
| * 62 Fluorobenzene               | 96  | 4.764     | 4.764         | 0.000         | 99  | 435239   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.107     | 5.107         | 0.000         | 48  | 23006    | 500.0        | 442.9          |       |
| 64 Trichloroethene               | 95  | 5.107     | 5.107         | 0.000         | 96  | 50563    | 20.0         | 19.8           |       |
| 65 Methylcyclohexane             | 83  | 5.221     | 5.221         | 0.000         | 91  | 52363    | 20.0         | 17.2           |       |
| 66 Ethyl acrylate                | 55  | 5.244     | 5.244         | 0.000         | 98  | 96416    | 20.0         | 23.6           |       |
| 67 1,2-Dichloropropane           | 63  | 5.392     | 5.392         | 0.000         | 90  | 50953    | 20.0         | 18.2           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472     | 5.472         | 0.000         | 0   | 23980    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.483     | 5.483         | 0.000         | 88  | 25645    | 40.0         | 40.8           |       |
| 70 1,4-Dioxane                   | 88  | 5.518     | 5.518         | 0.000         | 34  | 12401    | 400.0        | 415.4          |       |
| 71 Dibromomethane                | 93  | 5.529     | 5.529         | 0.000         | 93  | 38584    | 20.0         | 20.7           |       |
| 72 n-Propyl acetate              | 43  | 5.541     | 5.541         | 0.000         | 99  | 66590    | 20.0         | 15.6           |       |
| 73 Dichlorobromomethane          | 83  | 5.678     | 5.678         | 0.000         | 99  | 70610    | 20.0         | 19.7           |       |
| 74 2-Nitropropane                | 41  | 6.009     | 6.009         | 0.000         | 85  | 23398    | 40.0         | 40.2           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.020     | 6.020         | 0.000         | 72  | 22626    | 20.0         | 12.0           |       |
| 76 Epichlorohydrin               | 57  | 6.123     | 6.123         | 0.000         | 100 | 190623   | 400.0        | 981.1          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.168     | 6.168         | 0.000         | 91  | 80418    | 20.0         | 19.1           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.340     | 6.340         | 0.000         | 97  | 215137   | 100.0        | 107.8          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.397     | 6.397         | 0.000         | 100 | 397110   | 50.0         | 47.1           |       |
| 80 Toluene                       | 91  | 6.477     | 6.477         | 0.000         | 93  | 205321   | 20.0         | 19.1           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.842     | 6.842         | 0.000         | 97  | 65526    | 20.0         | 17.1           |       |
| 82 Ethyl methacrylate            | 69  | 6.876     | 6.876         | 0.000         | 89  | 46603    | 20.0         | 13.1           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 83 1,1,2-Trichloroethane        | 83  | 7.048     | 7.048         | 0.000         | 96  | 44059    | 20.0         | 18.7           |       |
| 84 Tetrachloroethene            | 166 | 7.082     | 7.082         | 0.000         | 96  | 60733    | 20.0         | 22.5           |       |
| 85 1,3-Dichloropropane          | 76  | 7.253     | 7.253         | 0.000         | 94  | 71961    | 20.0         | 17.8           |       |
| 86 2-Hexanone                   | 58  | 7.333     | 7.333         | 0.000         | 97  | 75760    | 100.0        | 109.0          |       |
| 87 n-Butyl acetate              | 43  | 7.447     | 7.447         | 0.000         | 98  | 64133    | 20.0         | 14.5           |       |
| 88 Chlorodibromomethane         | 129 | 7.481     | 7.481         | 0.000         | 98  | 64427    | 20.0         | 21.7           |       |
| 89 Ethylene Dibromide           | 107 | 7.630     | 7.630         | 0.000         | 98  | 53463    | 20.0         | 19.9           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.178     | 8.178         | 0.000         | 84  | 353705   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.212     | 8.212         | 0.000         | 97  | 146191   | 20.0         | 20.3           |       |
| 92 Ethylbenzene                 | 106 | 8.315     | 8.315         | 0.000         | 98  | 66311    | 20.0         | 19.2           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.338     | 8.338         | 0.000         | 97  | 56007    | 20.0         | 21.2           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.475     | 8.475         | 0.000         | 0   | 75334    | 20.0         | 18.1           |       |
| 96 o-Xylene                     | 106 | 9.000     | 9.000         | 0.000         | 96  | 71181    | 20.0         | 17.3           |       |
| 95 n-Butyl acrylate             | 73  | 9.011     | 9.011         | 0.000         | 96  | 29247    | 20.0         | 12.6           |       |
| 97 Styrene                      | 104 | 9.046     | 9.046         | 0.000         | 97  | 146084   | 20.0         | 19.6           |       |
| 99 Bromoform                    | 173 | 9.297     | 9.297         | 0.000         | 98  | 45926    | 20.0         | 21.6           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.297     | 9.297         | 0.000         | 90  | 63900    | 20.0         | 10.7           |       |
| 100 Isopropylbenzene            | 105 | 9.434     | 9.434         | 0.000         | 95  | 185133   | 20.0         | 18.8           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.651     | 9.651         | 0.000         | 97  | 140438   | 50.0         | 52.7           |       |
| 102 Bromobenzene                | 156 | 9.776     | 9.776         | 0.000         | 87  | 70624    | 20.0         | 19.8           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.845     | 9.845         | 0.000         | 99  | 75693    | 20.0         | 17.6           |       |
| 104 N-Propylbenzene             | 91  | 9.856     | 9.856         | 0.000         | 99  | 219845   | 20.0         | 17.4           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.879     | 9.879         | 0.000         | 96  | 18531    | 20.0         | 17.7           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.902     | 9.902         | 0.000         | 76  | 16052    | 20.0         | 14.4           |       |
| 107 2-Chlorotoluene             | 91  | 9.947     | 9.947         | 0.000         | 97  | 173651   | 20.0         | 18.3           |       |
| 108 4-Ethyltoluene              | 105 | 9.959     | 9.959         | 0.000         | 98  | 207456   | 20.0         | 19.3           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.027    | 10.027        | 0.000         | 95  | 161413   | 20.0         | 18.3           |       |
| 110 4-Chlorotoluene             | 91  | 10.050    | 10.050        | 0.000         | 97  | 168724   | 20.0         | 18.6           |       |
| 111 Butyl Methacrylate          | 87  | 10.130    | 10.130        | 0.000         | 88  | 60071    | 20.0         | 14.1           |       |
| 112 tert-Butylbenzene           | 119 | 10.279    | 10.279        | 0.000         | 96  | 128167   | 20.0         | 18.6           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.336    | 10.336        | 0.000         | 96  | 177074   | 20.0         | 17.9           |       |
| 114 sec-Butylbenzene            | 105 | 10.450    | 10.450        | 0.000         | 99  | 181879   | 20.0         | 18.9           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.564    | 10.564        | 0.000         | 92  | 132997   | 20.0         | 21.0           |       |
| 115 4-Isopropyltoluene          | 119 | 10.564    | 10.564        | 0.000         | 98  | 156004   | 20.0         | 14.7           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.621    | 10.621        | 0.000         | 94  | 223999   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.632    | 10.632        | 0.000         | 98  | 135537   | 20.0         | 20.1           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.655    | 10.655        | 0.000         | 97  | 201519   | 20.0         | 18.9           |       |
| 119 Benzyl chloride             | 91  | 10.747    | 10.747        | 0.000         | 99  | 124213   | 20.0         | 17.5           |       |
| 120 2,3-Dihydroindene           | 117 | 10.792    | 10.792        | 0.000         | 94  | 209533   | 20.0         | 19.4           |       |
| 121 p-Diethylbenzene            | 119 | 10.838    | 10.838        | 0.000         | 94  | 92584    | 20.0         | 19.7           |       |
| 122 n-Butylbenzene              | 92  | 10.849    | 10.849        | 0.000         | 98  | 83146    | 20.0         | 18.8           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.895    | 10.895        | 0.000         | 99  | 130229   | 20.0         | 20.9           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.340    | 11.340        | 0.000         | 98  | 140528   | 20.0         | 13.8           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.420    | 11.420        | 0.000         | 90  | 12234    | 20.0         | 18.3           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.500    | 11.500        | 0.000         | 96  | 81036    | 20.0         | 20.7           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.877    | 11.877        | 0.000         | 93  | 69354    | 20.0         | 18.6           |       |
| 128 Hexachlorobutadiene         | 225 | 11.934    | 11.934        | 0.000         | 98  | 28506    | 20.0         | 22.6           |       |
| 129 Naphthalene                 | 128 | 12.025    | 12.025        | 0.000         | 100 | 149661   | 20.0         | 15.3           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.185    | 12.185        | 0.000         | 96  | 60786    | 20.0         | 17.9           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 38.9           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 35.5           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 93.4           |       |

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00280     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76037.D

Injection Date: 09-Oct-2018 19:38:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

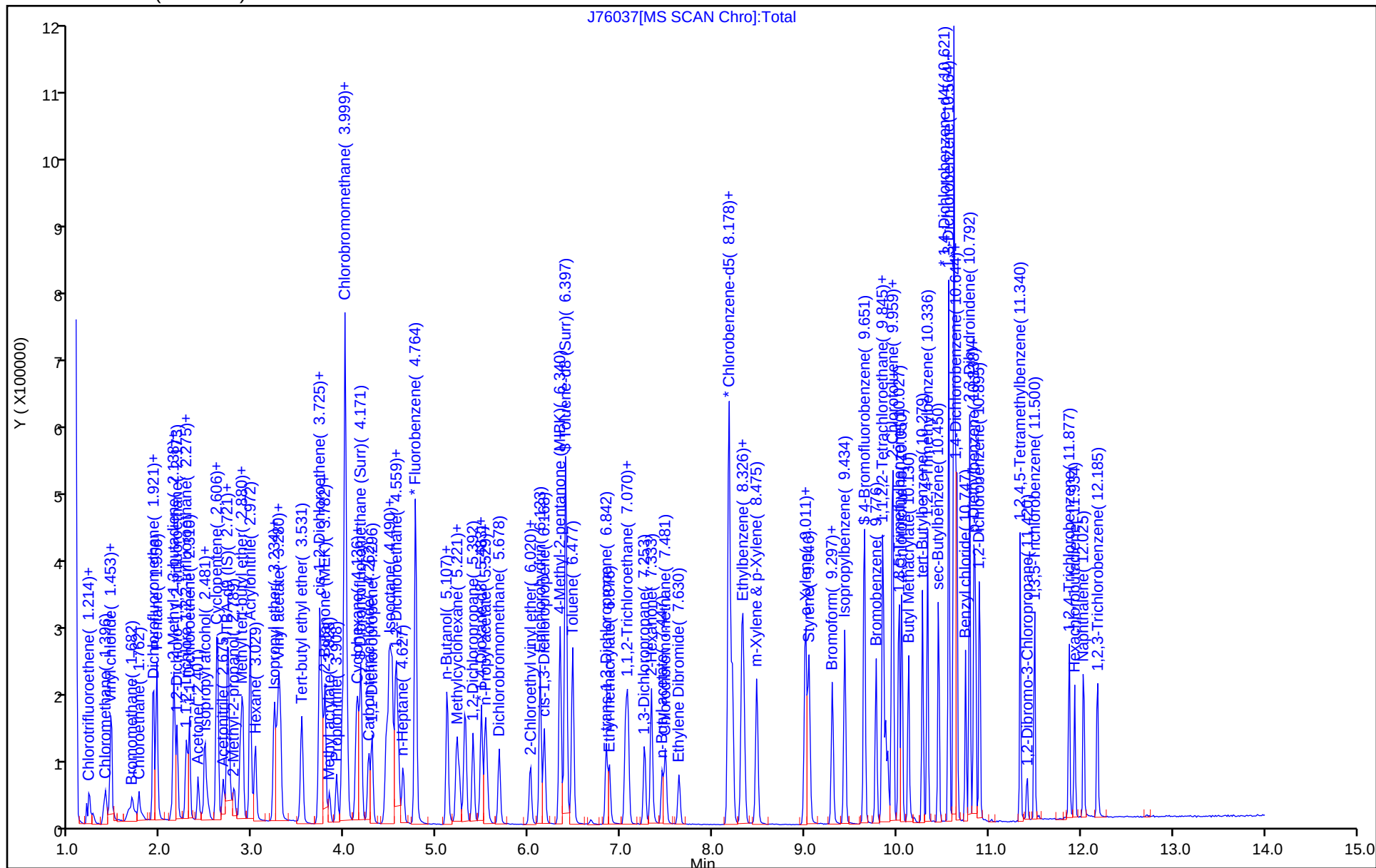
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-558952/3 Calibration Date: 10/10/2018 08:17

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76066.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                               | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|---------------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Chlorotrifluoroethene                 | Ave        | 0.0506  | 0.0364 |         | 14.4        | 20.0         | -28.0* | 20.0   |
| Dichlorodifluoromethane               | Ave        | 0.3827  | 0.3969 | 0.1000  | 20.7        | 20.0         | 3.7    | 20.0   |
| Chloromethane                         | Ave        | 0.4501  | 0.3534 | 0.1000  | 15.7        | 20.0         | -21.5* | 20.0   |
| Vinyl chloride                        | Ave        | 0.4198  | 0.3628 | 0.1000  | 17.3        | 20.0         | -13.6  | 20.0   |
| Butadiene                             | Ave        | 0.3536  | 0.2837 |         | 16.0        | 20.0         | -19.8  | 20.0   |
| Bromomethane                          | Lin2       |         | 0.1366 | 0.1000  | 13.4        | 20.0         | -33.2  | 50.0   |
| Chloroethane                          | Ave        | 0.2065  | 0.2113 | 0.1000  | 20.5        | 20.0         | 2.3    | 50.0   |
| Dichlorofluoromethane                 | Ave        | 0.5763  | 0.6020 |         | 20.9        | 20.0         | 4.5    | 20.0   |
| Trichlorofluoromethane                | Ave        | 0.4145  | 0.4836 | 0.1000  | 23.3        | 20.0         | 16.7   | 20.0   |
| Pentane                               | Ave        | 1.440   | 1.357  |         | 37.7        | 40.0         | -5.8   | 20.0   |
| Ethanol                               | Ave        | 0.0716  | 0.0637 |         | 712         | 800          | -11.0  | 50.0   |
| Ethyl ether                           | Ave        | 0.2353  | 0.1925 |         | 16.4        | 20.0         | -18.2  | 20.0   |
| 2-Methyl-1,3-butadiene                | Ave        | 0.2574  | 0.2011 |         | 15.6        | 20.0         | -21.9* | 20.0   |
| 1,2-Dichloro-1,1,2-trifluoroethane    | Ave        | 0.2307  | 0.2413 |         | 20.9        | 20.0         | 4.6    | 20.0   |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave        | 0.2614  | 0.2714 | 0.1000  | 20.8        | 20.0         | 3.9    | 20.0   |
| Acrolein                              | Ave        | 2.150   | 2.088  |         | 38.8        | 40.0         | -2.9   | 50.0   |
| 1,1-Dichloroethene                    | Ave        | 0.2564  | 0.2491 | 0.1000  | 19.4        | 20.0         | -2.9   | 20.0   |
| Acetone                               | Ave        | 0.6485  | 0.6583 | 0.0500  | 102         | 100          | 1.5    | 50.0   |
| Iodomethane                           | Ave        | 0.4111  | 0.1268 |         | 6.17        | 20.0         | -69.1* | 20.0   |
| Carbon disulfide                      | Ave        | 1.023   | 0.9260 | 0.1000  | 18.1        | 20.0         | -9.5   | 50.0   |
| Isopropyl alcohol                     | Ave        | 0.8132  | 0.7882 |         | 194         | 200          | -3.1   | 50.0   |
| Allyl chloride                        | Ave        | 0.1712  | 0.1532 |         | 17.9        | 20.0         | -10.5  | 20.0   |
| Cyclopentene                          | Ave        | 0.7063  | 0.5857 |         | 16.6        | 20.0         | -17.1  | 20.0   |
| Methyl acetate                        | Ave        | 0.2731  | 0.2009 | 0.1000  | 29.4        | 40.0         | -26.5* | 20.0   |
| Acetonitrile                          | Ave        | 1.811   | 1.718  |         | 190         | 200          | -5.1   | 20.0   |
| Methylene Chloride                    | Lin2       |         | 0.3112 | 0.1000  | 19.3        | 20.0         | -3.7   | 20.0   |
| 2-Methyl-2-propanol                   | Ave        | 1.179   | 1.131  |         | 192         | 200          | -4.1   | 50.0   |
| Methyl tert-butyl ether               | Ave        | 0.7658  | 0.6821 | 0.1000  | 17.8        | 20.0         | -10.9  | 20.0   |
| trans-1,2-Dichloroethene              | Ave        | 0.2949  | 0.2932 | 0.1000  | 19.9        | 20.0         | -0.6   | 20.0   |
| Acrylonitrile                         | Ave        | 5.033   | 4.864  |         | 193         | 200          | -3.4   | 20.0   |
| Hexane                                | Ave        | 0.3085  | 0.2567 |         | 16.6        | 20.0         | -16.8  | 20.0   |
| Isopropyl ether                       | Ave        | 1.032   | 0.7939 |         | 15.4        | 20.0         | -23.0* | 20.0   |
| 1,1-Dichloroethane                    | Ave        | 0.5665  | 0.4968 | 0.2000  | 17.5        | 20.0         | -12.3  | 20.0   |
| Vinyl acetate                         | Ave        | 0.6162  | 0.5518 |         | 35.8        | 40.0         | -10.5  | 20.0   |
| 2-Chloro-1,3-butadiene                | Ave        | 0.2648  | 0.2493 |         | 18.8        | 20.0         | -5.8   | 20.0   |
| Tert-butyl ethyl ether                | Ave        | 0.8648  | 0.6999 |         | 16.2        | 20.0         | -19.1  | 20.0   |
| 2,2-Dichloropropane                   | Lin2       |         | 0.1328 |         | 19.6        | 20.0         | -1.8   | 20.0   |
| cis-1,2-Dichloroethene                | Ave        | 0.3388  | 0.3208 | 0.1000  | 18.9        | 20.0         | -5.3   | 20.0   |
| 2-Butanone (MEK)                      | Ave        | 0.2584  | 0.2919 | 0.0500  | 113         | 100          | 12.9   | 50.0   |
| Ethyl acetate                         | Ave        | 0.2526  | 0.2797 |         | 44.3        | 40.0         | 10.7   | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-558952/3 Calibration Date: 10/10/2018 08:17

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76066.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                     | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|-----------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Methyl acrylate             | Ave        | 0.3155  | 0.2477 |         | 15.7        | 20.0         | -21.5* | 20.0   |
| Propionitrile               | Ave        | 1.987   | 1.966  |         | 198         | 200          | -1.1   | 20.0   |
| Chlorobromomethane          | Ave        | 0.1658  | 0.1800 |         | 21.7        | 20.0         | 8.6    | 20.0   |
| Tetrahydrofuran             | Ave        | 0.2636  | 0.2926 |         | 44.4        | 40.0         | 11.0   | 20.0   |
| Methacrylonitrile           | Ave        | 0.1344  | 0.1216 |         | 181         | 200          | -9.5   | 20.0   |
| Chloroform                  | Ave        | 0.5187  | 0.5143 | 0.2000  | 19.8        | 20.0         | -0.9   | 20.0   |
| Cyclohexane                 | Ave        | 0.3406  | 0.3230 | 0.1000  | 19.0        | 20.0         | -5.2   | 50.0   |
| 1,1,1-Trichloroethane       | Ave        | 0.4141  | 0.4129 | 0.1000  | 19.9        | 20.0         | -0.3   | 20.0   |
| Carbon tetrachloride        | Ave        | 0.3628  | 0.3681 | 0.1000  | 20.3        | 20.0         | 1.5    | 20.0   |
| 1,1-Dichloropropene         | Ave        | 0.3715  | 0.3065 |         | 16.5        | 20.0         | -17.5  | 20.0   |
| 2,2,4-Trimethylpentane      | Ave        | 0.5075  | 0.4437 |         | 17.5        | 20.0         | -12.6  | 20.0   |
| Isobutyl alcohol            | Ave        | 0.6297  | 0.6079 |         | 483         | 500          | -3.5   | 50.0   |
| Benzene                     | Ave        | 1.489   | 1.411  | 0.5000  | 18.9        | 20.0         | -5.3   | 20.0   |
| Isopropyl acetate           | Ave        | 0.8590  | 0.6808 |         | 15.9        | 20.0         | -20.7* | 20.0   |
| Tert-amyl methyl ether      | Lin2       |         | 0.1997 |         | 17.1        | 20.0         | -14.6  | 20.0   |
| 1,2-Dichloroethane          | Ave        | 0.3974  | 0.3555 | 0.1000  | 17.9        | 20.0         | -10.5  | 20.0   |
| n-Heptane                   | Ave        | 0.1171  | 0.1042 |         | 17.8        | 20.0         | -11.1  | 20.0   |
| n-Butanol                   | Ave        | 0.2823  | 0.2628 |         | 465         | 500          | -6.9   | 50.0   |
| Trichloroethene             | Ave        | 0.2940  | 0.2725 | 0.2000  | 18.5        | 20.0         | -7.3   | 20.0   |
| Methylcyclohexane           | Lin2       |         | 0.3082 | 0.1000  | 17.7        | 20.0         | -11.7  | 50.0   |
| Ethyl acrylate              | Ave        | 0.4689  | 0.5504 |         | 23.5        | 20.0         | 17.4   | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.3214  | 0.2868 | 0.1000  | 17.8        | 20.0         | -10.8  | 20.0   |
| Methyl methacrylate         | Ave        | 0.0722  | 0.0694 |         | 38.5        | 40.0         | -3.8   | 20.0   |
| 1,4-Dioxane                 | Ave        | 1.245   | 1.280  |         | 411         | 400          | 2.8    | 50.0   |
| Dibromomethane              | Ave        | 0.2139  | 0.2152 |         | 20.1        | 20.0         | 0.6    | 20.0   |
| n-Propyl acetate            | Ave        | 0.4891  | 0.3534 |         | 14.5        | 20.0         | -27.7* | 20.0   |
| Dichlorobromomethane        | Ave        | 0.4128  | 0.4019 | 0.2000  | 19.5        | 20.0         | -2.6   | 20.0   |
| 2-Chloroethyl vinyl ether   | QuaF       |         | 0.1244 |         | 11.5        | 20.0         | -42.7* | 20.0   |
| 2-Nitropropane              | Ave        | 3.162   | 3.031  |         | 38.3        | 40.0         | -4.1   | 20.0   |
| Epichlorohydrin             | Ave        | 0.2060  | 0.4659 |         | 905         | 400          | 126.2* | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.5945  | 0.5264 | 0.2000  | 17.7        | 20.0         | -11.5  | 50.0   |
| 4-Methyl-2-pentanone (MIBK) | Lin2       |         | 2.088  | 0.0500  | 98.9        | 100          | -1.1   | 50.0   |
| Toluene                     | Ave        | 1.520   | 1.391  | 0.4000  | 18.3        | 20.0         | -8.4   | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5408  | 0.4316 | 0.1000  | 16.0        | 20.0         | -20.2  | 50.0   |
| Ethyl methacrylate          | QuaF       |         | 0.2525 |         | 12.4        | 20.0         | -38.2* | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3335  | 0.3019 | 0.1000  | 18.1        | 20.0         | -9.5   | 20.0   |
| Tetrachloroethene           | Ave        | 0.3821  | 0.4321 | 0.2000  | 22.6        | 20.0         | 13.1   | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5704  | 0.4848 |         | 17.0        | 20.0         | -15.0  | 20.0   |
| 2-Hexanone                  | Qua2       |         | 0.7575 | 0.0500  | 103         | 100          | 3.0    | 50.0   |
| n-Butyl acetate             | Lin2       |         | 0.4052 |         | 13.0        | 20.0         | -35.0* | 20.0   |
| Chlorodibromomethane        | Ave        | 0.4200  | 0.4422 | 0.1000  | 21.1        | 20.0         | 5.3    | 50.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 460-558952/3 Calibration Date: 10/10/2018 08:17  
 Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25  
 GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24  
 Lab File ID: J76066.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Ethylene Dibromide           | Ave        | 0.3805  | 0.3611 | 0.1000  | 19.0        | 20.0         | -5.1   | 20.0   |
| Chlorobenzene                | Ave        | 1.018   | 0.9882 | 0.5000  | 19.4        | 20.0         | -2.9   | 20.0   |
| Ethylbenzene                 | Ave        | 0.4873  | 0.4428 | 0.1000  | 18.2        | 20.0         | -9.1   | 20.0   |
| 1,1,1,2-Tetrachloroethane    | Ave        | 0.3732  | 0.3844 |         | 20.6        | 20.0         | 3.0    | 20.0   |
| m-Xylene & p-Xylene          | Lin2       |         | 0.5205 | 0.1000  | 17.7        | 20.0         | -11.3  | 20.0   |
| o-Xylene                     | Lin2       |         | 0.5031 | 0.3000  | 17.3        | 20.0         | -13.4  | 20.0   |
| n-Butyl acrylate             | QuaF       |         | 0.2116 |         | 12.9        | 20.0         | -35.3* | 20.0   |
| Styrene                      | Lin2       |         | 1.018  | 0.3000  | 19.4        | 20.0         | -3.2   | 20.0   |
| Bromoform                    | Ave        | 0.3005  | 0.3211 | 0.1000  | 21.4        | 20.0         | 6.9    | 20.0   |
| Amyl acetate (mixed isomers) | QuaF       |         | 0.6754 |         | 10.1        | 20.0         | -49.3* | 20.0   |
| Isopropylbenzene             | Lin2       |         | 1.260  | 0.1000  | 18.1        | 20.0         | -9.5   | 20.0   |
| Bromobenzene                 | Ave        | 0.7945  | 0.7434 |         | 18.7        | 20.0         | -6.4   | 20.0   |
| 1,1,2,2-Tetrachloroethane    | Ave        | 0.9579  | 0.7587 | 0.3000  | 15.8        | 20.0         | -20.8* | 20.0   |
| N-Propylbenzene              | Ave        | 2.817   | 2.287  |         | 16.2        | 20.0         | -18.8  | 20.0   |
| 1,2,3-Trichloropropane       | Ave        | 0.2331  | 0.1963 |         | 16.8        | 20.0         | -15.8  | 20.0   |
| trans-1,4-Dichloro-2-butene  | Ave        | 0.2496  | 0.1718 |         | 13.8        | 20.0         | -31.2* | 20.0   |
| 2-Chlorotoluene              | Ave        | 2.124   | 1.851  |         | 17.4        | 20.0         | -12.8  | 20.0   |
| 4-Ethyltoluene               | Ave        | 2.401   | 2.230  |         | 18.6        | 20.0         | -7.1   | 20.0   |
| 1,3,5-Trimethylbenzene       | Ave        | 1.964   | 1.766  |         | 18.0        | 20.0         | -10.1  | 20.0   |
| 4-Chlorotoluene              | Ave        | 2.027   | 1.834  |         | 18.1        | 20.0         | -9.5   | 20.0   |
| Butyl Methacrylate           | QuaF       |         | 0.6479 |         | 13.7        | 20.0         | -31.7* | 20.0   |
| tert-Butylbenzene            | Ave        | 1.539   | 1.380  |         | 17.9        | 20.0         | -10.4  | 20.0   |
| 1,2,4-Trimethylbenzene       | Lin2       |         | 1.886  |         | 17.1        | 20.0         | -14.4  | 20.0   |
| sec-Butylbenzene             | Ave        | 2.150   | 1.949  |         | 18.1        | 20.0         | -9.4   | 20.0   |
| 1,3-Dichlorobenzene          | Ave        | 1.413   | 1.375  | 0.6000  | 19.5        | 20.0         | -2.7   | 20.0   |
| 4-Isopropyltoluene           | QuaF       |         | 1.698  |         | 14.4        | 20.0         | -28.2* | 20.0   |
| 1,4-Dichlorobenzene          | Ave        | 1.508   | 1.434  | 0.5000  | 19.0        | 20.0         | -4.9   | 20.0   |
| 1,2,3-Trimethylbenzene       | Ave        | 2.377   | 2.102  |         | 17.7        | 20.0         | -11.6  | 20.0   |
| Benzyl chloride              | Ave        | 1.587   | 1.260  |         | 15.9        | 20.0         | -20.6  | 50.0   |
| Indan                        | Ave        | 2.415   | 2.282  |         | 18.9        | 20.0         | -5.5   | 20.0   |
| p-Diethylbenzene             | Ave        | 1.051   | 0.997  |         | 19.0        | 20.0         | -5.2   | 20.0   |
| n-Butylbenzene               | Ave        | 0.9874  | 0.8883 |         | 18.0        | 20.0         | -10.0  | 20.0   |
| 1,2-Dichlorobenzene          | Ave        | 1.391   | 1.389  | 0.4000  | 20.0        | 20.0         | -0.2   | 20.0   |
| 1,2,4,5-Tetramethylbenzene   | QuaF       |         | 1.461  |         | 12.8        | 20.0         | -35.9* | 20.0   |
| 1,2-Dibromo-3-Chloropropane  | Ave        | 0.1493  | 0.1440 | 0.0500  | 19.3        | 20.0         | -3.6   | 50.0   |
| 1,3,5-Trichlorobenzene       | Ave        | 0.8730  | 0.8979 |         | 20.6        | 20.0         | 2.9    | 20.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.8331  | 0.7535 | 0.2000  | 18.1        | 20.0         | -9.5   | 20.0   |
| Hexachlorobutadiene          | Lin2       |         | 0.3290 |         | 23.4        | 20.0         | 17.0   | 20.0   |
| Naphthalene                  | Ave        | 2.183   | 1.970  |         | 18.1        | 20.0         | -9.7   | 50.0   |
| 1,2,3-Trichlorobenzene       | Ave        | 0.7595  | 0.7496 |         | 19.7        | 20.0         | -1.3   | 20.0   |
| Dibromofluoromethane (Surr)  | Ave        | 0.2691  | 0.2740 |         | 50.9        | 50.0         | 1.8    | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCVIS 460-558952/3 Calibration Date: 10/10/2018 08:17  
Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25  
GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24  
Lab File ID: J76066.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.2941  | 0.2629 |         | 44.7           | 50.0            | -10.6 | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.192   | 1.151  |         | 48.3           | 50.0            | -3.5  | 20.0      |
| 4-Bromofluorobenzene         | Ave           | 0.3770  | 0.3969 |         | 52.6           | 50.0            | 5.3   | 20.0      |



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76066.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 10-Oct-2018 08:17:30 ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 460-0080037-003  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:38:10 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0318

First Level Reviewer: moroneyc

Date: 10-Oct-2018 08:36:34

| Compound                      | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|-------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.191        | 1.191            | 0.000            | 92  | 6178     | 20.0            | 14.4              |       |
| 2 Dichlorodifluoromethane     | 85  | 1.225        | 1.225            | 0.000            | 99  | 67316    | 20.0            | 20.7              |       |
| 3 Chloromethane               | 50  | 1.397        | 1.397            | 0.000            | 98  | 59936    | 20.0            | 15.7              |       |
| 4 Vinyl chloride              | 62  | 1.442        | 1.442            | 0.000            | 98  | 61534    | 20.0            | 17.3              |       |
| 5 Butadiene                   | 54  | 1.465        | 1.465            | 0.000            | 95  | 48127    | 20.0            | 16.0              |       |
| 6 Bromomethane                | 94  | 1.693        | 1.693            | 0.000            | 99  | 23167    | 20.0            | 13.4              |       |
| 7 Chloroethane                | 64  | 1.773        | 1.773            | 0.000            | 100 | 35844    | 20.0            | 20.5              |       |
| 9 Trichlorofluoromethane      | 101 | 1.922        | 1.922            | 0.000            | 99  | 82029    | 20.0            | 23.3              |       |
| 8 Dichlorofluoromethane       | 67  | 1.922        | 1.922            | 0.000            | 85  | 102107   | 20.0            | 20.9              |       |
| 10 Pentane                    | 72  | 1.956        | 1.956            | 0.000            | 96  | 9813     | 40.0            | 37.7              |       |
| 11 Ethanol                    | 46  | 2.104        | 2.104            | 0.000            | 96  | 9218     | 800.0           | 711.7             | a     |
| 12 Ethyl ether                | 59  | 2.139        | 2.139            | 0.000            | 94  | 32657    | 20.0            | 16.4              |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.150        | 2.150            | 0.000            | 96  | 34104    | 20.0            | 15.6              |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.173        | 2.173            | 0.000            | 94  | 40921    | 20.0            | 20.9              |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.276        | 2.276            | 0.000            | 97  | 46040    | 20.0            | 20.8              |       |
| 16 Acrolein                   | 56  | 2.287        | 2.287            | 0.000            | 96  | 15097    | 40.0            | 38.8              |       |
| 17 1,1-Dichloroethene         | 96  | 2.310        | 2.310            | 0.000            | 97  | 42249    | 20.0            | 19.4              |       |
| 18 Acetone                    | 43  | 2.401        | 2.401            | 0.000            | 86  | 61971    | 100.0           | 101.5             |       |
| 19 Iodomethane                | 142 | 2.458        | 2.458            | 0.000            | 97  | 21513    | 20.0            | 6.17              |       |
| 20 Carbon disulfide           | 76  | 2.481        | 2.481            | 0.000            | 98  | 157057   | 20.0            | 18.1              |       |
| 21 Isopropyl alcohol          | 45  | 2.493        | 2.493            | 0.000            | 98  | 28501    | 200.0           | 193.9             |       |
| 22 3-Chloro-1-propene         | 76  | 2.607        | 2.607            | 0.000            | 93  | 25978    | 20.0            | 17.9              |       |
| 23 Cyclopentene               | 67  | 2.618        | 2.618            | 0.000            | 94  | 99343    | 20.0            | 16.6              |       |
| 24 Methyl acetate             | 43  | 2.618        | 2.618            | 0.000            | 99  | 68144    | 40.0            | 29.4              |       |
| 25 Acetonitrile               | 41  | 2.675        | 2.675            | 0.000            | 100 | 62125    | 200.0           | 189.8             |       |
| 26 Methylene Chloride         | 84  | 2.732        | 2.732            | 0.000            | 56  | 52790    | 20.0            | 19.3              |       |
| * 27 TBA-d9 (IS)              | 65  | 2.732        | 2.732            | 0.000            | 0   | 180795   | 1000.0          | 1000.0            |       |
| 28 2-Methyl-2-propanol        | 59  | 2.789        | 2.789            | 0.000            | 99  | 40886    | 200.0           | 191.8             |       |
| 29 Methyl tert-butyl ether    | 73  | 2.869        | 2.869            | 0.000            | 97  | 115692   | 20.0            | 17.8              |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.892        | 2.892            | 0.000            | 91  | 49728    | 20.0            | 19.9              |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 31 Acrylonitrile                 | 53  | 2.972     | 2.972         | 0.000         | 95  | 175867   | 200.0        | 193.3          |       |
| 32 Hexane                        | 57  | 3.029     | 3.029         | 0.000         | 93  | 43541    | 20.0         | 16.6           |       |
| 33 Isopropyl ether               | 45  | 3.235     | 3.235         | 0.000         | 97  | 134666   | 20.0         | 15.4           |       |
| 34 1,1-Dichloroethane            | 63  | 3.269     | 3.269         | 0.000         | 99  | 84267    | 20.0         | 17.5           |       |
| 35 Vinyl acetate                 | 43  | 3.280     | 3.280         | 0.000         | 100 | 187184   | 40.0         | 35.8           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.303     | 3.303         | 0.000         | 89  | 42284    | 20.0         | 18.8           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.532     | 3.532         | 0.000         | 89  | 118721   | 20.0         | 16.2           |       |
| 38 2,2-Dichloropropane           | 79  | 3.726     | 3.726         | 0.000         | 92  | 22529    | 20.0         | 19.6           |       |
| * 39 2-Butanone-d5               | 46  | 3.726     | 3.726         | 0.000         | 0   | 235341   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.760     | 3.760         | 0.000         | 97  | 54415    | 20.0         | 18.9           |       |
| 41 2-Butanone (MEK)              | 72  | 3.783     | 3.783         | 0.000         | 96  | 27477    | 100.0        | 112.9          |       |
| 42 Ethyl acetate                 | 70  | 3.783     | 3.783         | 0.000         | 95  | 10531    | 40.0         | 44.3           |       |
| 43 Methyl acrylate               | 55  | 3.840     | 3.840         | 0.000         | 100 | 42012    | 20.0         | 15.7           |       |
| 44 Propionitrile                 | 54  | 3.908     | 3.908         | 0.000         | 98  | 71091    | 200.0        | 197.9          |       |
| 46 Chlorobromomethane            | 128 | 3.977     | 3.977         | 0.000         | 82  | 30523    | 20.0         | 21.7           |       |
| 45 Tetrahydrofuran               | 72  | 3.977     | 3.977         | 0.000         | 95  | 11016    | 40.0         | 44.4           |       |
| 47 Methacrylonitrile             | 67  | 4.000     | 4.000         | 0.000         | 92  | 206299   | 200.0        | 181.0          |       |
| 48 Chloroform                    | 83  | 4.022     | 4.022         | 0.000         | 99  | 87229    | 20.0         | 19.8           |       |
| 49 Cyclohexane                   | 84  | 4.125     | 4.125         | 0.000         | 91  | 54793    | 20.0         | 19.0           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.148     | 4.148         | 0.000         | 98  | 70035    | 20.0         | 19.9           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.182     | 4.182         | 0.000         | 98  | 116192   | 50.0         | 50.9           |       |
| 52 Carbon tetrachloride          | 117 | 4.262     | 4.262         | 0.000         | 99  | 62436    | 20.0         | 20.3           |       |
| 53 1,1-Dichloropropene           | 75  | 4.296     | 4.296         | 0.000         | 95  | 51981    | 20.0         | 16.5           |       |
| 54 Isooctane                     | 57  | 4.456     | 4.456         | 0.000         | 72  | 75260    | 20.0         | 17.5           |       |
| 58 Isobutyl alcohol              | 43  | 4.456     | 4.456         | 0.000         | 80  | 54948    | 500.0        | 482.6          | a     |
| 55 Benzene                       | 78  | 4.491     | 4.491         | 0.000         | 94  | 195301   | 20.0         | 18.9           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513     | 4.513         | 0.000         | 0   | 111471   | 50.0         | 44.7           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.559     | 4.559         | 0.000         | 77  | 33878    | 20.0         | 17.1           |       |
| 59 Isopropyl acetate             | 43  | 4.559     | 4.559         | 0.000         | 93  | 115475   | 20.0         | 15.9           |       |
| 60 1,2-Dichloroethane            | 62  | 4.582     | 4.582         | 0.000         | 96  | 60303    | 20.0         | 17.9           |       |
| 61 n-Heptane                     | 57  | 4.639     | 4.639         | 0.000         | 90  | 17671    | 20.0         | 17.8           |       |
| * 62 Fluorobenzene               | 96  | 4.776     | 4.776         | 0.000         | 100 | 424044   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.107     | 5.107         | 0.000         | 88  | 23753    | 500.0        | 465.4          |       |
| 64 Trichloroethene               | 95  | 5.119     | 5.119         | 0.000         | 96  | 46225    | 20.0         | 18.5           |       |
| 65 Methylcyclohexane             | 83  | 5.221     | 5.221         | 0.000         | 93  | 52281    | 20.0         | 17.7           |       |
| 66 Ethyl acrylate                | 55  | 5.244     | 5.244         | 0.000         | 98  | 93350    | 20.0         | 23.5           |       |
| 67 1,2-Dichloropropane           | 63  | 5.393     | 5.393         | 0.000         | 93  | 48640    | 20.0         | 17.8           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472     | 5.472         | 0.000         | 0   | 24076    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.484     | 5.484         | 0.000         | 87  | 23553    | 40.0         | 38.5           |       |
| 70 1,4-Dioxane                   | 88  | 5.530     | 5.530         | 0.000         | 41  | 12331    | 400.0        | 411.4          |       |
| 71 Dibromomethane                | 93  | 5.530     | 5.530         | 0.000         | 93  | 36507    | 20.0         | 20.1           |       |
| 72 n-Propyl acetate              | 43  | 5.552     | 5.552         | 0.000         | 98  | 59946    | 20.0         | 14.5           |       |
| 73 Dichlorobromomethane          | 83  | 5.678     | 5.678         | 0.000         | 98  | 68171    | 20.0         | 19.5           |       |
| 74 2-Nitropropane                | 41  | 6.020     | 6.020         | 0.000         | 85  | 21922    | 40.0         | 38.3           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.020     | 6.020         | 0.000         | 72  | 21105    | 20.0         | 11.5           |       |
| 76 Epichlorohydrin               | 57  | 6.123     | 6.123         | 0.000         | 99  | 175441   | 400.0        | 904.7          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.169     | 6.169         | 0.000         | 91  | 72855    | 20.0         | 17.7           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.340     | 6.340         | 0.000         | 96  | 196563   | 100.0        | 98.9           |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.409     | 6.409         | 0.000         | 99  | 398121   | 50.0         | 48.3           |       |
| 80 Toluene                       | 91  | 6.477     | 6.477         | 0.000         | 95  | 192573   | 20.0         | 18.3           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.842     | 6.842         | 0.000         | 96  | 59729    | 20.0         | 16.0           |       |
| 82 Ethyl methacrylate            | 69  | 6.877     | 6.877         | 0.000         | 90  | 42833    | 20.0         | 12.4           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 83 1,1,2-Trichloroethane        | 83  | 7.059     | 7.059         | 0.000         | 97  | 41779    | 20.0         | 18.1           |       |
| 84 Tetrachloroethene            | 166 | 7.082     | 7.082         | 0.000         | 96  | 59805    | 20.0         | 22.6           |       |
| 85 1,3-Dichloropropane          | 76  | 7.265     | 7.265         | 0.000         | 94  | 67092    | 20.0         | 17.0           |       |
| 86 2-Hexanone                   | 58  | 7.333     | 7.333         | 0.000         | 98  | 71307    | 100.0        | 103.0          |       |
| 87 n-Butyl acetate              | 43  | 7.459     | 7.459         | 0.000         | 98  | 56083    | 20.0         | 13.0           |       |
| 88 Chlorodibromomethane         | 129 | 7.493     | 7.493         | 0.000         | 97  | 61208    | 20.0         | 21.1           |       |
| 89 Ethylene Dibromide           | 107 | 7.630     | 7.630         | 0.000         | 99  | 49978    | 20.0         | 19.0           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.178     | 8.178         | 0.000         | 85  | 346016   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.212     | 8.212         | 0.000         | 97  | 136774   | 20.0         | 19.4           |       |
| 92 Ethylbenzene                 | 106 | 8.327     | 8.327         | 0.000         | 98  | 61281    | 20.0         | 18.2           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.338     | 8.338         | 0.000         | 97  | 53203    | 20.0         | 20.6           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.486     | 8.486         | 0.000         | 0   | 72033    | 20.0         | 17.7           |       |
| 96 o-Xylene                     | 106 | 9.012     | 9.012         | 0.000         | 95  | 69635    | 20.0         | 17.3           |       |
| 95 n-Butyl acrylate             | 73  | 9.023     | 9.023         | 0.000         | 98  | 29289    | 20.0         | 12.9           |       |
| 97 Styrene                      | 104 | 9.046     | 9.046         | 0.000         | 98  | 140911   | 20.0         | 19.4           |       |
| 99 Bromoform                    | 173 | 9.297     | 9.297         | 0.000         | 98  | 44442    | 20.0         | 21.4           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.308     | 9.308         | 0.000         | 91  | 59825    | 20.0         | 10.1           |       |
| 100 Isopropylbenzene            | 105 | 9.434     | 9.434         | 0.000         | 95  | 174327   | 20.0         | 18.1           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.651     | 9.651         | 0.000         | 98  | 137323   | 50.0         | 52.6           |       |
| 102 Bromobenzene                | 156 | 9.777     | 9.777         | 0.000         | 86  | 65852    | 20.0         | 18.7           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.845     | 9.845         | 0.000         | 98  | 67206    | 20.0         | 15.8           |       |
| 104 N-Propylbenzene             | 91  | 9.856     | 9.856         | 0.000         | 100 | 202585   | 20.0         | 16.2           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.879     | 9.879         | 0.000         | 96  | 17386    | 20.0         | 16.8           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.902     | 9.902         | 0.000         | 71  | 15215    | 20.0         | 13.8           |       |
| 107 2-Chlorotoluene             | 91  | 9.948     | 9.948         | 0.000         | 97  | 163966   | 20.0         | 17.4           |       |
| 108 4-Ethyltoluene              | 105 | 9.959     | 9.959         | 0.000         | 98  | 197565   | 20.0         | 18.6           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.028    | 10.028        | 0.000         | 95  | 156458   | 20.0         | 18.0           |       |
| 110 4-Chlorotoluene             | 91  | 10.062    | 10.062        | 0.000         | 95  | 162429   | 20.0         | 18.1           |       |
| 111 Butyl Methacrylate          | 87  | 10.130    | 10.130        | 0.000         | 88  | 57392    | 20.0         | 13.7           |       |
| 112 tert-Butylbenzene           | 119 | 10.279    | 10.279        | 0.000         | 95  | 122205   | 20.0         | 17.9           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.336    | 10.336        | 0.000         | 97  | 167103   | 20.0         | 17.1           |       |
| 114 sec-Butylbenzene            | 105 | 10.462    | 10.462        | 0.000         | 99  | 172620   | 20.0         | 18.1           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.564    | 10.564        | 0.000         | 98  | 121803   | 20.0         | 19.5           |       |
| 115 4-Isopropyltoluene          | 119 | 10.564    | 10.564        | 0.000         | 98  | 150379   | 20.0         | 14.4           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.621    | 10.621        | 0.000         | 93  | 221456   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.644    | 10.644        | 0.000         | 97  | 126985   | 20.0         | 19.0           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.656    | 10.656        | 0.000         | 97  | 186237   | 20.0         | 17.7           |       |
| 119 Benzyl chloride             | 91  | 10.747    | 10.747        | 0.000         | 99  | 111585   | 20.0         | 15.9           |       |
| 120 2,3-Dihydroindene           | 117 | 10.793    | 10.793        | 0.000         | 94  | 202161   | 20.0         | 18.9           |       |
| 121 p-Diethylbenzene            | 119 | 10.838    | 10.838        | 0.000         | 94  | 88336    | 20.0         | 19.0           |       |
| 122 n-Butylbenzene              | 92  | 10.861    | 10.861        | 0.000         | 97  | 78690    | 20.0         | 18.0           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.907    | 10.907        | 0.000         | 99  | 123006   | 20.0         | 20.0           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.341    | 11.341        | 0.000         | 98  | 129379   | 20.0         | 12.8           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.421    | 11.421        | 0.000         | 90  | 12751    | 20.0         | 19.3           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.501    | 11.501        | 0.000         | 96  | 79538    | 20.0         | 20.6           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.866    | 11.866        | 0.000         | 93  | 66750    | 20.0         | 18.1           |       |
| 128 Hexachlorobutadiene         | 225 | 11.934    | 11.934        | 0.000         | 98  | 29145    | 20.0         | 23.4           |       |
| 129 Naphthalene                 | 128 | 12.026    | 12.026        | 0.000         | 99  | 174540   | 20.0         | 18.1           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.174    | 12.174        | 0.000         | 94  | 66402    | 20.0         | 19.7           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 38.8           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 35.1           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 90.5           |       |

**QC Flag Legend**

## Review Flags

a - User Assigned ID

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00281     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80037.b\\J76066.D

Injection Date: 10-Oct-2018 08:17:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

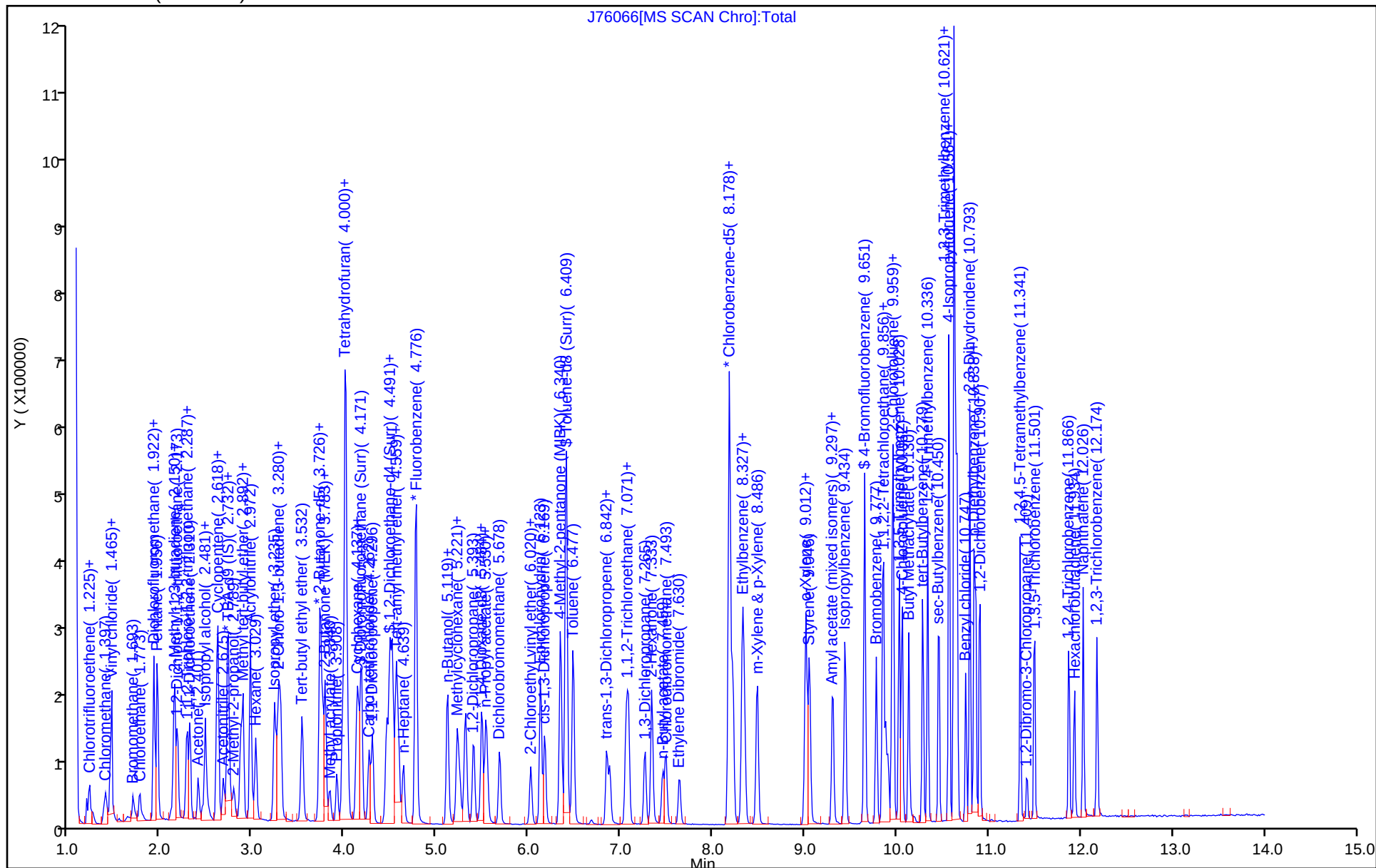
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76066.D

Injection Date: 10-Oct-2018 08:17:30

Instrument ID: CVOAMS8

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

Detector

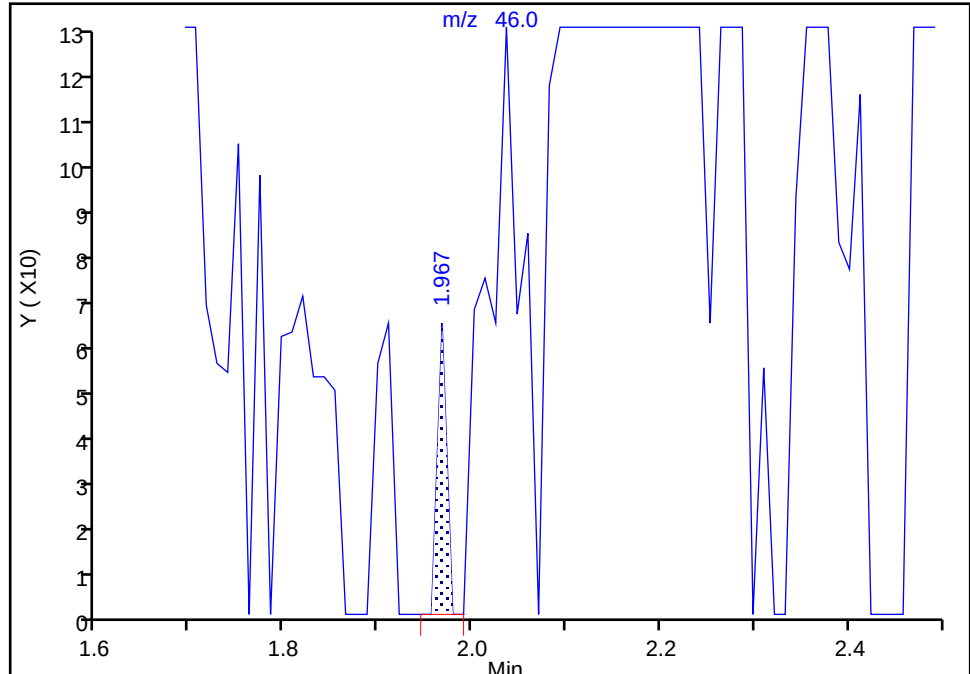
MS SCAN

**11 Ethanol, CAS: 64-17-5**

Signal: 1

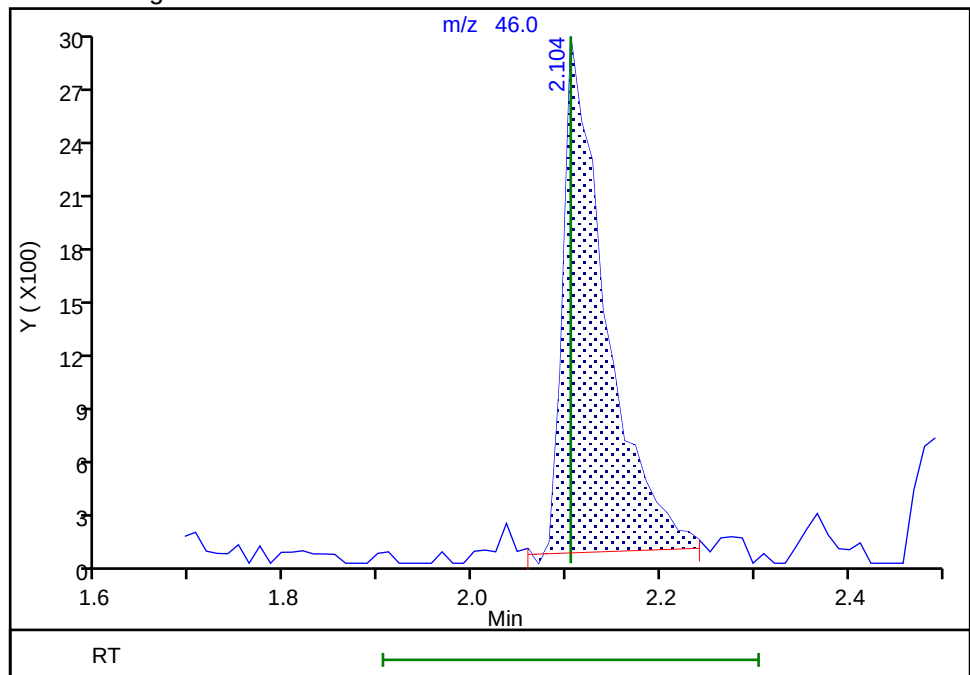
RT: 1.97  
Area: 45  
Amount: 3.474472  
Amount Units: ug/l

## Processing Integration Results



RT: 2.10  
Area: 9218  
Amount: 711.7264  
Amount Units: ug/l

## Manual Integration Results



Reviewer: moroneyc, 10-Oct-2018 09:34:54

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76066.D

Injection Date: 10-Oct-2018 08:17:30

Instrument ID: CVOAMS8

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

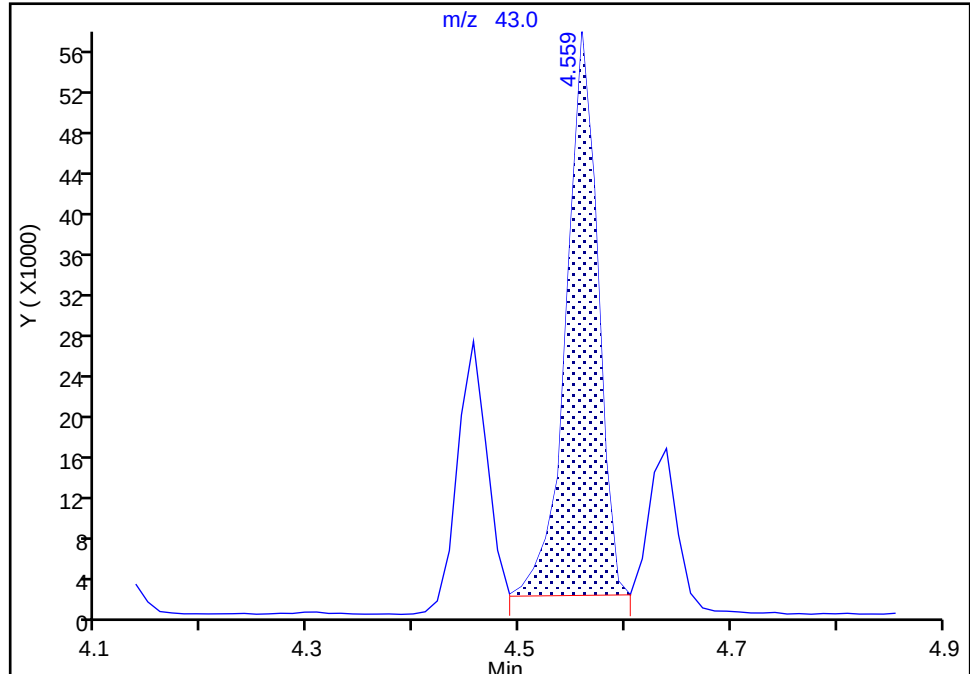
Detector: MS SCAN

**58 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

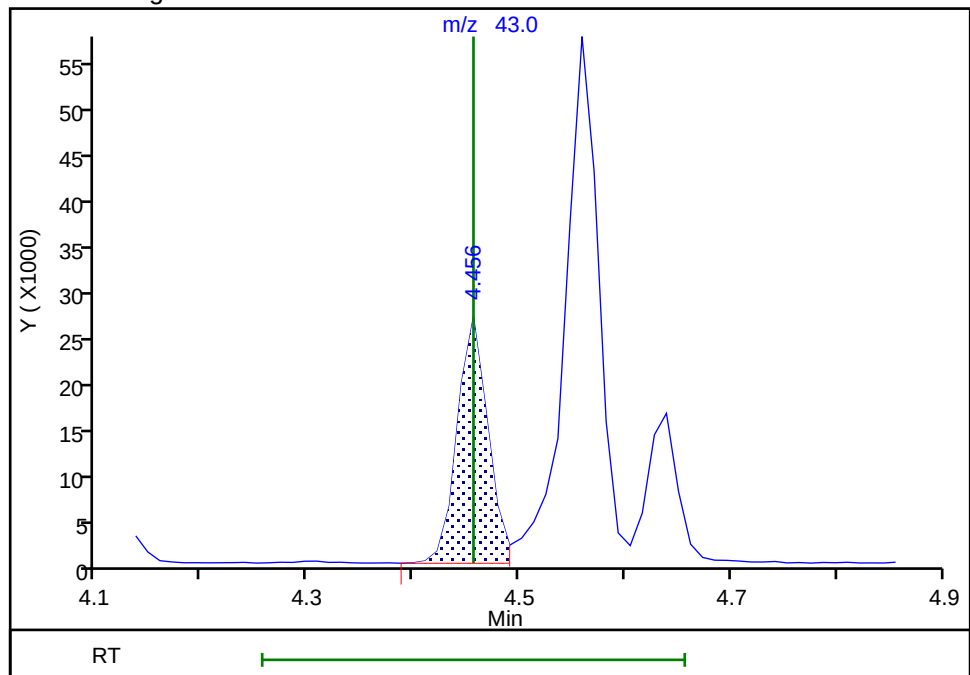
RT: 4.56  
Area: 115539  
Amount: 1014.8449  
Amount Units: ug/l

## Processing Integration Results



RT: 4.46  
Area: 54948  
Amount: 482.6396  
Amount Units: ug/l

## Manual Integration Results



Reviewer: moroneyc, 10-Oct-2018 09:35:39

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-559112/3 Calibration Date: 10/10/2018 19:33

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76066.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                               | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|---------------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Chlorotrifluoroethene                 | Ave        | 0.0506  | 0.0341 |         | 13.5        | 20.0         | -32.5* | 20.0   |
| Dichlorodifluoromethane               | Ave        | 0.3827  | 0.3497 | 0.1000  | 18.3        | 20.0         | -8.6   | 20.0   |
| Chloromethane                         | Ave        | 0.4501  | 0.3592 | 0.1000  | 16.0        | 20.0         | -20.2* | 20.0   |
| Vinyl chloride                        | Ave        | 0.4198  | 0.3665 | 0.1000  | 17.5        | 20.0         | -12.7  | 20.0   |
| Butadiene                             | Ave        | 0.3536  | 0.2711 |         | 15.3        | 20.0         | -23.3* | 20.0   |
| Bromomethane                          | Lin2       |         | 0.1192 | 0.1000  | 11.5        | 20.0         | -42.3  | 50.0   |
| Chloroethane                          | Ave        | 0.2065  | 0.2107 | 0.1000  | 20.4        | 20.0         | 2.1    | 50.0   |
| Dichlorofluoromethane                 | Ave        | 0.5763  | 0.6437 |         | 22.3        | 20.0         | 11.7   | 20.0   |
| Trichlorofluoromethane                | Ave        | 0.4145  | 0.4661 | 0.1000  | 22.5        | 20.0         | 12.5   | 20.0   |
| Pentane                               | Ave        | 1.440   | 1.448  |         | 40.2        | 40.0         | 0.6    | 20.0   |
| Ethanol                               | Ave        | 0.0716  | 0.0751 |         | 838         | 800          | 4.8    | 50.0   |
| Ethyl ether                           | Ave        | 0.2353  | 0.2116 |         | 18.0        | 20.0         | -10.1  | 20.0   |
| 2-Methyl-1,3-butadiene                | Ave        | 0.2574  | 0.2058 |         | 16.0        | 20.0         | -20.0  | 20.0   |
| 1,2-Dichloro-1,1,2-trifluoroethane    | Ave        | 0.2307  | 0.2541 |         | 22.0        | 20.0         | 10.1   | 20.0   |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave        | 0.2614  | 0.2688 | 0.1000  | 20.6        | 20.0         | 2.8    | 20.0   |
| Acrolein                              | Ave        | 2.150   | 2.040  |         | 38.0        | 40.0         | -5.1   | 50.0   |
| 1,1-Dichloroethene                    | Ave        | 0.2564  | 0.2557 | 0.1000  | 19.9        | 20.0         | -0.3   | 20.0   |
| Acetone                               | Ave        | 0.6485  | 0.7412 | 0.0500  | 114         | 100          | 14.3   | 50.0   |
| Iodomethane                           | Ave        | 0.4111  | 0.1607 |         | 7.82        | 20.0         | -60.9* | 20.0   |
| Carbon disulfide                      | Ave        | 1.023   | 0.9704 | 0.1000  | 19.0        | 20.0         | -5.1   | 50.0   |
| Isopropyl alcohol                     | Ave        | 0.8132  | 0.8079 |         | 199         | 200          | -0.6   | 50.0   |
| Allyl chloride                        | Ave        | 0.1712  | 0.1606 |         | 18.8        | 20.0         | -6.2   | 20.0   |
| Cyclopentene                          | Ave        | 0.7063  | 0.5775 |         | 16.4        | 20.0         | -18.2  | 20.0   |
| Methyl acetate                        | Ave        | 0.2731  | 0.2174 | 0.1000  | 31.8        | 40.0         | -20.4* | 20.0   |
| Acetonitrile                          | Ave        | 1.811   | 1.798  |         | 199         | 200          | -0.7   | 20.0   |
| Methylene Chloride                    | Lin2       |         | 0.3463 | 0.1000  | 21.5        | 20.0         | 7.4    | 20.0   |
| 2-Methyl-2-propanol                   | Ave        | 1.179   | 1.253  |         | 213         | 200          | 6.3    | 50.0   |
| Methyl tert-butyl ether               | Ave        | 0.7658  | 0.7459 | 0.1000  | 19.5        | 20.0         | -2.6   | 20.0   |
| trans-1,2-Dichloroethene              | Ave        | 0.2949  | 0.3139 | 0.1000  | 21.3        | 20.0         | 6.4    | 20.0   |
| Acrylonitrile                         | Ave        | 5.033   | 5.441  |         | 216         | 200          | 8.1    | 20.0   |
| Hexane                                | Ave        | 0.3085  | 0.2626 |         | 17.0        | 20.0         | -14.9  | 20.0   |
| Isopropyl ether                       | Ave        | 1.032   | 0.8500 |         | 16.5        | 20.0         | -17.6  | 20.0   |
| 1,1-Dichloroethane                    | Ave        | 0.5665  | 0.5394 | 0.2000  | 19.0        | 20.0         | -4.8   | 20.0   |
| Vinyl acetate                         | Ave        | 0.6162  | 0.6209 |         | 40.3        | 40.0         | 0.8    | 20.0   |
| 2-Chloro-1,3-butadiene                | Ave        | 0.2648  | 0.2569 |         | 19.4        | 20.0         | -3.0   | 20.0   |
| Tert-butyl ethyl ether                | Ave        | 0.8648  | 0.7684 |         | 17.8        | 20.0         | -11.1  | 20.0   |
| 2,2-Dichloropropane                   | Lin2       |         | 0.1459 |         | 21.6        | 20.0         | 8.1    | 20.0   |
| cis-1,2-Dichloroethene                | Ave        | 0.3388  | 0.3770 | 0.1000  | 22.3        | 20.0         | 11.3   | 20.0   |
| 2-Butanone (MEK)                      | Ave        | 0.2584  | 0.3015 | 0.0500  | 117         | 100          | 16.7   | 50.0   |
| Ethyl acetate                         | Ave        | 0.2526  | 0.3061 |         | 48.5        | 40.0         | 21.2*  | 20.0   |



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-559112/3 Calibration Date: 10/10/2018 19:33

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76066.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                     | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|-----------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Methyl acrylate             | Ave        | 0.3155  | 0.2447 |         | 15.5        | 20.0         | -22.4* | 20.0   |
| Propionitrile               | Ave        | 1.987   | 2.151  |         | 216         | 200          | 8.2    | 20.0   |
| Chlorobromomethane          | Ave        | 0.1658  | 0.2002 |         | 24.1        | 20.0         | 20.7*  | 20.0   |
| Tetrahydrofuran             | Ave        | 0.2636  | 0.3253 |         | 49.4        | 40.0         | 23.4*  | 20.0   |
| Methacrylonitrile           | Ave        | 0.1344  | 0.1315 |         | 196         | 200          | -2.2   | 20.0   |
| Chloroform                  | Ave        | 0.5187  | 0.5698 | 0.2000  | 22.0        | 20.0         | 9.9    | 20.0   |
| Cyclohexane                 | Ave        | 0.3406  | 0.3276 | 0.1000  | 19.2        | 20.0         | -3.8   | 50.0   |
| 1,1,1-Trichloroethane       | Ave        | 0.4141  | 0.4353 | 0.1000  | 21.0        | 20.0         | 5.1    | 20.0   |
| Carbon tetrachloride        | Ave        | 0.3628  | 0.3940 | 0.1000  | 21.7        | 20.0         | 8.6    | 20.0   |
| 1,1-Dichloropropene         | Ave        | 0.3715  | 0.3402 |         | 18.3        | 20.0         | -8.4   | 20.0   |
| 2,2,4-Trimethylpentane      | Ave        | 0.5075  | 0.4621 |         | 18.2        | 20.0         | -9.0   | 20.0   |
| Isobutyl alcohol            | Ave        | 0.6297  | 0.6737 |         | 535         | 500          | 7.0    | 50.0   |
| Benzene                     | Ave        | 1.489   | 1.524  | 0.5000  | 20.5        | 20.0         | 2.4    | 20.0   |
| Isopropyl acetate           | Ave        | 0.8590  | 0.7178 |         | 16.7        | 20.0         | -16.4  | 20.0   |
| Tert-amyl methyl ether      | Lin2       |         | 0.2244 |         | 19.1        | 20.0         | -4.3   | 20.0   |
| 1,2-Dichloroethane          | Ave        | 0.3974  | 0.3873 | 0.1000  | 19.5        | 20.0         | -2.6   | 20.0   |
| n-Heptane                   | Ave        | 0.1171  | 0.1069 |         | 18.3        | 20.0         | -8.7   | 20.0   |
| Trichloroethene             | Ave        | 0.2940  | 0.3035 | 0.2000  | 20.7        | 20.0         | 3.3    | 20.0   |
| Methylcyclohexane           | Lin2       |         | 0.3024 | 0.1000  | 17.3        | 20.0         | -13.3  | 50.0   |
| n-Butanol                   | Ave        | 0.2823  | 0.2445 |         | 433         | 500          | -13.4  | 50.0   |
| Ethyl acrylate              | Ave        | 0.4689  | 0.5781 |         | 24.7        | 20.0         | 23.3*  | 20.0   |
| 1,2-Dichloropropane         | Ave        | 0.3214  | 0.3091 | 0.1000  | 19.2        | 20.0         | -3.8   | 20.0   |
| Methyl methacrylate         | Ave        | 0.0722  | 0.0724 |         | 40.1        | 40.0         | 0.3    | 20.0   |
| 1,4-Dioxane                 | Ave        | 1.245   | 1.252  |         | 402         | 400          | 0.5    | 50.0   |
| Dibromomethane              | Ave        | 0.2139  | 0.2319 |         | 21.7        | 20.0         | 8.4    | 20.0   |
| n-Propyl acetate            | Ave        | 0.4891  | 0.3929 |         | 16.1        | 20.0         | -19.7  | 20.0   |
| Dichlorobromomethane        | Ave        | 0.4128  | 0.4391 | 0.2000  | 21.3        | 20.0         | 6.4    | 20.0   |
| 2-Nitropropane              | Ave        | 3.162   | 3.212  |         | 40.6        | 40.0         | 1.6    | 20.0   |
| 2-Chloroethyl vinyl ether   | QuaF       |         | 0.1404 |         | 12.9        | 20.0         | -35.4* | 20.0   |
| Epichlorohydrin             | Ave        | 0.2060  | 0.5058 |         | 982         | 400          | 145.5* | 20.0   |
| cis-1,3-Dichloropropene     | Ave        | 0.5945  | 0.5821 | 0.2000  | 19.6        | 20.0         | -2.1   | 50.0   |
| 4-Methyl-2-pentanone (MIBK) | Lin2       |         | 2.279  | 0.0500  | 108         | 100          | 7.8    | 50.0   |
| Toluene                     | Ave        | 1.520   | 1.503  | 0.4000  | 19.8        | 20.0         | -1.1   | 20.0   |
| trans-1,3-Dichloropropene   | Ave        | 0.5408  | 0.4737 | 0.1000  | 17.5        | 20.0         | -12.4  | 50.0   |
| Ethyl methacrylate          | QuaF       |         | 0.2787 |         | 13.7        | 20.0         | -31.7* | 20.0   |
| 1,1,2-Trichloroethane       | Ave        | 0.3335  | 0.3267 | 0.1000  | 19.6        | 20.0         | -2.1   | 20.0   |
| Tetrachloroethene           | Ave        | 0.3821  | 0.4515 | 0.2000  | 23.6        | 20.0         | 18.1   | 20.0   |
| 1,3-Dichloropropane         | Ave        | 0.5704  | 0.5359 |         | 18.8        | 20.0         | -6.1   | 20.0   |
| 2-Hexanone                  | Qua2       |         | 0.8144 | 0.0500  | 110         | 100          | 10.5   | 50.0   |
| n-Butyl acetate             | Lin2       |         | 0.4560 |         | 14.6        | 20.0         | -27.0* | 20.0   |
| Chlorodibromomethane        | Ave        | 0.4200  | 0.4712 | 0.1000  | 22.4        | 20.0         | 12.2   | 50.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-559112/3 Calibration Date: 10/10/2018 19:33

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76066.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Ethylene Dibromide           | Ave        | 0.3805  | 0.3895 | 0.1000  | 20.5        | 20.0         | 2.4    | 20.0   |
| Chlorobenzene                | Ave        | 1.018   | 1.089  | 0.5000  | 21.4        | 20.0         | 7.0    | 20.0   |
| Ethylbenzene                 | Ave        | 0.4873  | 0.4995 | 0.1000  | 20.5        | 20.0         | 2.5    | 20.0   |
| 1,1,1,2-Tetrachloroethane    | Ave        | 0.3732  | 0.4237 |         | 22.7        | 20.0         | 13.5   | 20.0   |
| m-Xylene & p-Xylene          | Lin2       |         | 0.5880 | 0.1000  | 20.0        | 20.0         | -0.1   | 20.0   |
| o-Xylene                     | Lin2       |         | 0.5498 | 0.3000  | 18.9        | 20.0         | -5.6   | 20.0   |
| n-Butyl acrylate             | QuaF       |         | 0.2344 |         | 14.3        | 20.0         | -28.3* | 20.0   |
| Styrene                      | Lin2       |         | 1.129  | 0.3000  | 21.4        | 20.0         | 7.1    | 20.0   |
| Amyl acetate (mixed isomers) | QuaF       |         | 0.7322 |         | 11.0        | 20.0         | -45.0* | 20.0   |
| Bromoform                    | Ave        | 0.3005  | 0.3330 | 0.1000  | 22.2        | 20.0         | 10.8   | 20.0   |
| Isopropylbenzene             | Lin2       |         | 1.368  | 0.1000  | 19.6        | 20.0         | -1.9   | 20.0   |
| Bromobenzene                 | Ave        | 0.7945  | 0.8342 |         | 21.0        | 20.0         | 5.0    | 20.0   |
| 1,1,2,2-Tetrachloroethane    | Ave        | 0.9579  | 0.8904 | 0.3000  | 18.6        | 20.0         | -7.0   | 20.0   |
| N-Propylbenzene              | Ave        | 2.817   | 2.690  |         | 19.1        | 20.0         | -4.5   | 20.0   |
| 1,2,3-Trichloropropane       | Ave        | 0.2331  | 0.2246 |         | 19.3        | 20.0         | -3.7   | 20.0   |
| trans-1,4-Dichloro-2-butene  | Ave        | 0.2496  | 0.1799 |         | 14.4        | 20.0         | -27.9* | 20.0   |
| 2-Chlorotoluene              | Ave        | 2.124   | 2.121  |         | 20.0        | 20.0         | -0.1   | 20.0   |
| 4-Ethyltoluene               | Ave        | 2.401   | 2.526  |         | 21.0        | 20.0         | 5.2    | 20.0   |
| 1,3,5-Trimethylbenzene       | Ave        | 1.964   | 2.039  |         | 20.8        | 20.0         | 3.8    | 20.0   |
| 4-Chlorotoluene              | Ave        | 2.027   | 1.989  |         | 19.6        | 20.0         | -1.9   | 20.0   |
| Butyl Methacrylate           | QuaF       |         | 0.7128 |         | 15.0        | 20.0         | -24.8* | 20.0   |
| tert-Butylbenzene            | Ave        | 1.539   | 1.537  |         | 20.0        | 20.0         | -0.1   | 20.0   |
| 1,2,4-Trimethylbenzene       | Lin2       |         | 2.128  |         | 19.3        | 20.0         | -3.7   | 20.0   |
| sec-Butylbenzene             | Ave        | 2.150   | 2.175  |         | 20.2        | 20.0         | 1.2    | 20.0   |
| 1,3-Dichlorobenzene          | Ave        | 1.413   | 1.588  | 0.6000  | 22.5        | 20.0         | 12.4   | 20.0   |
| 4-Isopropyltoluene           | QuaF       |         | 1.898  |         | 16.1        | 20.0         | -19.6  | 20.0   |
| 1,4-Dichlorobenzene          | Ave        | 1.508   | 1.659  | 0.5000  | 22.0        | 20.0         | 10.1   | 20.0   |
| 1,2,3-Trimethylbenzene       | Ave        | 2.377   | 2.388  |         | 20.1        | 20.0         | 0.5    | 20.0   |
| Benzyl chloride              | Ave        | 1.587   | 1.506  |         | 19.0        | 20.0         | -5.1   | 50.0   |
| Indan                        | Ave        | 2.415   | 2.545  |         | 21.1        | 20.0         | 5.4    | 20.0   |
| p-Diethylbenzene             | Ave        | 1.051   | 1.147  |         | 21.8        | 20.0         | 9.1    | 20.0   |
| n-Butylbenzene               | Ave        | 0.9874  | 1.046  |         | 21.2        | 20.0         | 6.0    | 20.0   |
| 1,2-Dichlorobenzene          | Ave        | 1.391   | 1.603  | 0.4000  | 23.0        | 20.0         | 15.2   | 20.0   |
| 1,2,4,5-Tetramethylbenzene   | QuaF       |         | 1.676  |         | 14.7        | 20.0         | -26.5* | 20.0   |
| 1,2-Dibromo-3-Chloropropane  | Ave        | 0.1493  | 0.1489 | 0.0500  | 19.9        | 20.0         | -0.3   | 50.0   |
| 1,3,5-Trichlorobenzene       | Ave        | 0.8730  | 1.032  |         | 23.6        | 20.0         | 18.2   | 20.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.8331  | 0.8885 | 0.2000  | 21.3        | 20.0         | 6.6    | 20.0   |
| Hexachlorobutadiene          | Lin2       |         | 0.3617 |         | 25.8        | 20.0         | 28.9*  | 20.0   |
| Naphthalene                  | Ave        | 2.183   | 2.169  |         | 19.9        | 20.0         | -0.7   | 50.0   |
| 1,2,3-Trichlorobenzene       | Ave        | 0.7595  | 0.8254 |         | 21.7        | 20.0         | 8.7    | 20.0   |
| Dibromofluoromethane (Surr)  | Ave        | 0.2691  | 0.2756 |         | 51.2        | 50.0         | 2.4    | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 460-559112/3 Calibration Date: 10/10/2018 19:33  
 Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25  
 GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24  
 Lab File ID: J76066.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.2941  | 0.2599 |         | 44.2           | 50.0            | -11.6 | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.192   | 1.137  |         | 47.7           | 50.0            | -4.6  | 20.0      |
| 4-Bromofluorobenzene         | Ave           | 0.3770  | 0.4003 |         | 53.1           | 50.0            | 6.2   | 20.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\J76066.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 10-Oct-2018 19:33:30 ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 460-0080066-003  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 08:26:43 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0317

First Level Reviewer: parekhv

Date: 10-Oct-2018 19:54:16

| Compound                      | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|-------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.193        | 1.193            | 0.000            | 92  | 5775     | 20.0            | 13.5              |       |
| 2 Dichlorodifluoromethane     | 85  | 1.228        | 1.228            | 0.000            | 99  | 59216    | 20.0            | 18.3              |       |
| 3 Chloromethane               | 50  | 1.399        | 1.399            | 0.000            | 99  | 60816    | 20.0            | 16.0              |       |
| 4 Vinyl chloride              | 62  | 1.445        | 1.445            | 0.000            | 99  | 62055    | 20.0            | 17.5              |       |
| 5 Butadiene                   | 54  | 1.467        | 1.467            | 0.000            | 95  | 45899    | 20.0            | 15.3              |       |
| 6 Bromomethane                | 94  | 1.696        | 1.696            | 0.000            | 97  | 20186    | 20.0            | 11.5              |       |
| 7 Chloroethane                | 64  | 1.764        | 1.764            | 0.000            | 100 | 35684    | 20.0            | 20.4              |       |
| 9 Trichlorofluoromethane      | 101 | 1.924        | 1.924            | 0.000            | 99  | 78926    | 20.0            | 22.5              |       |
| 8 Dichlorofluoromethane       | 67  | 1.924        | 1.924            | 0.000            | 87  | 108994   | 20.0            | 22.3              |       |
| 10 Pentane                    | 72  | 1.958        | 1.958            | 0.000            | 95  | 10347    | 40.0            | 40.2              |       |
| 11 Ethanol                    | 46  | 2.118        | 2.118            | 0.000            | 95  | 10729    | 800.0           | 838.4             |       |
| 12 Ethyl ether                | 59  | 2.141        | 2.141            | 0.000            | 95  | 35825    | 20.0            | 18.0              |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.153        | 2.153            | 0.000            | 86  | 34848    | 20.0            | 16.0              |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.187        | 2.187            | 0.000            | 93  | 43028    | 20.0            | 22.0              |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.290        | 2.290            | 0.000            | 99  | 45509    | 20.0            | 20.6              |       |
| 16 Acrolein                   | 56  | 2.301        | 2.301            | 0.000            | 94  | 14580    | 40.0            | 38.0              |       |
| 17 1,1-Dichloroethene         | 96  | 2.324        | 2.324            | 0.000            | 96  | 43296    | 20.0            | 19.9              |       |
| 18 Acetone                    | 43  | 2.415        | 2.415            | 0.000            | 87  | 70092    | 100.0           | 114.3             |       |
| 19 Iodomethane                | 142 | 2.461        | 2.461            | 0.000            | 97  | 27210    | 20.0            | 7.82              |       |
| 20 Carbon disulfide           | 76  | 2.484        | 2.484            | 0.000            | 98  | 164310   | 20.0            | 19.0              |       |
| 21 Isopropyl alcohol          | 45  | 2.506        | 2.506            | 0.000            | 98  | 28865    | 200.0           | 198.7             |       |
| 22 3-Chloro-1-propene         | 76  | 2.609        | 2.609            | 0.000            | 93  | 27196    | 20.0            | 18.8              |       |
| 23 Cyclopentene               | 67  | 2.621        | 2.621            | 0.000            | 95  | 97786    | 20.0            | 16.4              |       |
| 24 Methyl acetate             | 43  | 2.632        | 2.632            | 0.000            | 100 | 73626    | 40.0            | 31.8              |       |
| 25 Acetonitrile               | 41  | 2.689        | 2.689            | 0.000            | 98  | 64229    | 200.0           | 198.6             |       |
| 26 Methylene Chloride         | 84  | 2.735        | 2.735            | 0.000            | 88  | 58628    | 20.0            | 21.5              |       |
| * 27 TBA-d9 (IS)              | 65  | 2.735        | 2.735            | 0.000            | 0   | 178636   | 1000.0          | 1000.0            |       |
| 28 2-Methyl-2-propanol        | 59  | 2.803        | 2.803            | 0.000            | 99  | 44779    | 200.0           | 212.6             |       |
| 29 Methyl tert-butyl ether    | 73  | 2.872        | 2.872            | 0.000            | 97  | 126293   | 20.0            | 19.5              |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.895        | 2.895            | 0.000            | 94  | 53145    | 20.0            | 21.3              |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 31 Acrylonitrile                 | 53  | 2.975     | 2.975         | 0.000         | 95  | 194381   | 200.0        | 216.2          |       |
| 32 Hexane                        | 57  | 3.032     | 3.032         | 0.000         | 93  | 44471    | 20.0         | 17.0           |       |
| 33 Isopropyl ether               | 45  | 3.237     | 3.237         | 0.000         | 97  | 143931   | 20.0         | 16.5           |       |
| 34 1,1-Dichloroethane            | 63  | 3.271     | 3.271         | 0.000         | 99  | 91334    | 20.0         | 19.0           |       |
| 35 Vinyl acetate                 | 43  | 3.294     | 3.294         | 0.000         | 100 | 210257   | 40.0         | 40.3           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.306     | 3.306         | 0.000         | 88  | 43504    | 20.0         | 19.4           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.545     | 3.545         | 0.000         | 89  | 130107   | 20.0         | 17.8           |       |
| 38 2,2-Dichloropropane           | 79  | 3.728     | 3.728         | 0.000         | 93  | 24701    | 20.0         | 21.6           |       |
| * 39 2-Butanone-d5               | 46  | 3.739     | 3.739         | 0.000         | 0   | 236403   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.762     | 3.762         | 0.000         | 98  | 63833    | 20.0         | 22.3           |       |
| 41 2-Butanone (MEK)              | 72  | 3.797     | 3.797         | 0.000         | 96  | 28512    | 100.0        | 116.7          |       |
| 42 Ethyl acetate                 | 70  | 3.797     | 3.797         | 0.000         | 95  | 11578    | 40.0         | 48.5           |       |
| 43 Methyl acrylate               | 55  | 3.842     | 3.842         | 0.000         | 100 | 41428    | 20.0         | 15.5           |       |
| 44 Propionitrile                 | 54  | 3.922     | 3.922         | 0.000         | 98  | 76842    | 200.0        | 216.4          |       |
| 46 Chlorobromomethane            | 128 | 3.979     | 3.979         | 0.000         | 85  | 33891    | 20.0         | 24.1           |       |
| 45 Tetrahydrofuran               | 72  | 3.991     | 3.991         | 0.000         | 93  | 12305    | 40.0         | 49.4           |       |
| 47 Methacrylonitrile             | 67  | 4.013     | 4.013         | 0.000         | 92  | 222611   | 200.0        | 195.7          |       |
| 48 Chloroform                    | 83  | 4.036     | 4.036         | 0.000         | 99  | 96486    | 20.0         | 22.0           |       |
| 49 Cyclohexane                   | 84  | 4.139     | 4.139         | 0.000         | 91  | 55471    | 20.0         | 19.2           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.162     | 4.162         | 0.000         | 98  | 73703    | 20.0         | 21.0           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.185     | 4.185         | 0.000         | 97  | 116676   | 50.0         | 51.2           |       |
| 52 Carbon tetrachloride          | 117 | 4.265     | 4.265         | 0.000         | 98  | 66720    | 20.0         | 21.7           |       |
| 53 1,1-Dichloropropene           | 75  | 4.310     | 4.310         | 0.000         | 98  | 57595    | 20.0         | 18.3           |       |
| 54 Isooctane                     | 57  | 4.459     | 4.459         | 0.000         | 95  | 78239    | 20.0         | 18.2           |       |
| 58 Isobutyl alcohol              | 43  | 4.459     | 4.459         | 0.000         | 92  | 60169    | 500.0        | 534.9          | a     |
| 55 Benzene                       | 78  | 4.493     | 4.493         | 0.000         | 96  | 212803   | 20.0         | 20.5           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.516     | 4.516         | 0.000         | 0   | 110013   | 50.0         | 44.2           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.573     | 4.573         | 0.000         | 90  | 38001    | 20.0         | 19.1           |       |
| 59 Isopropyl acetate             | 43  | 4.573     | 4.573         | 0.000         | 94  | 121536   | 20.0         | 16.7           |       |
| 60 1,2-Dichloroethane            | 62  | 4.596     | 4.596         | 0.000         | 97  | 65570    | 20.0         | 19.5           |       |
| 61 n-Heptane                     | 57  | 4.641     | 4.641         | 0.000         | 91  | 18100    | 20.0         | 18.3           |       |
| * 62 Fluorobenzene               | 96  | 4.778     | 4.778         | 0.000         | 99  | 423309   | 50.0         | 50.0           |       |
| 64 Trichloroethene               | 95  | 5.121     | 5.121         | 0.000         | 96  | 51394    | 20.0         | 20.7           |       |
| 63 n-Butanol                     | 56  | 5.235     | 5.235         | 0.000         | 49  | 21840    | 500.0        | 433.1          |       |
| 65 Methylcyclohexane             | 83  | 5.235     | 5.235         | 0.000         | 90  | 51204    | 20.0         | 17.3           |       |
| 66 Ethyl acrylate                | 55  | 5.258     | 5.258         | 0.000         | 99  | 97893    | 20.0         | 24.7           |       |
| 67 1,2-Dichloropropane           | 63  | 5.406     | 5.406         | 0.000         | 91  | 52334    | 20.0         | 19.2           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.486     | 5.486         | 0.000         | 0   | 24244    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.498     | 5.498         | 0.000         | 89  | 24515    | 40.0         | 40.1           |       |
| 70 1,4-Dioxane                   | 88  | 5.532     | 5.532         | 0.000         | 34  | 12138    | 400.0        | 402.1          |       |
| 71 Dibromomethane                | 93  | 5.532     | 5.532         | 0.000         | 96  | 39266    | 20.0         | 21.7           |       |
| 72 n-Propyl acetate              | 43  | 5.555     | 5.555         | 0.000         | 98  | 66530    | 20.0         | 16.1           |       |
| 73 Dichlorobromomethane          | 83  | 5.692     | 5.692         | 0.000         | 98  | 74344    | 20.0         | 21.3           |       |
| 74 2-Nitropropane                | 41  | 6.023     | 6.023         | 0.000         | 86  | 22952    | 40.0         | 40.6           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.034     | 6.034         | 0.000         | 72  | 23768    | 20.0         | 12.9           |       |
| 76 Epichlorohydrin               | 57  | 6.137     | 6.137         | 0.000         | 100 | 191323   | 400.0        | 982.2          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.183     | 6.183         | 0.000         | 91  | 81263    | 20.0         | 19.6           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.354     | 6.354         | 0.000         | 97  | 215516   | 100.0        | 107.8          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.411     | 6.411         | 0.000         | 100 | 396792   | 50.0         | 47.7           |       |
| 80 Toluene                       | 91  | 6.491     | 6.491         | 0.000         | 94  | 209814   | 20.0         | 19.8           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.856     | 6.856         | 0.000         | 96  | 66125    | 20.0         | 17.5           |       |
| 82 Ethyl methacrylate            | 69  | 6.890     | 6.890         | 0.000         | 89  | 47193    | 20.0         | 13.7           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 83 1,1,2-Trichloroethane        | 83  | 7.062     | 7.062         | 0.000         | 96  | 45599    | 20.0         | 19.6           |       |
| 84 Tetrachloroethene            | 166 | 7.085     | 7.085         | 0.000         | 97  | 63019    | 20.0         | 23.6           |       |
| 85 1,3-Dichloropropane          | 76  | 7.267     | 7.267         | 0.000         | 93  | 74806    | 20.0         | 18.8           |       |
| 86 2-Hexanone                   | 58  | 7.347     | 7.347         | 0.000         | 96  | 77006    | 100.0        | 110.5          |       |
| 87 n-Butyl acetate              | 43  | 7.461     | 7.461         | 0.000         | 99  | 63660    | 20.0         | 14.6           |       |
| 88 Chlorodibromomethane         | 129 | 7.496     | 7.496         | 0.000         | 98  | 65769    | 20.0         | 22.4           |       |
| 89 Ethylene Dibromide           | 107 | 7.644     | 7.644         | 0.000         | 99  | 54372    | 20.0         | 20.5           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.192     | 8.192         | 0.000         | 83  | 348981   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.226     | 8.226         | 0.000         | 98  | 151954   | 20.0         | 21.4           |       |
| 92 Ethylbenzene                 | 106 | 8.329     | 8.329         | 0.000         | 98  | 69721    | 20.0         | 20.5           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.352     | 8.352         | 0.000         | 96  | 59144    | 20.0         | 22.7           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.489     | 8.489         | 0.000         | 0   | 82075    | 20.0         | 20.0           |       |
| 96 o-Xylene                     | 106 | 9.014     | 9.014         | 0.000         | 95  | 76743    | 20.0         | 18.9           |       |
| 95 n-Butyl acrylate             | 73  | 9.025     | 9.025         | 0.000         | 98  | 32713    | 20.0         | 14.3           |       |
| 97 Styrene                      | 104 | 9.060     | 9.060         | 0.000         | 97  | 157624   | 20.0         | 21.4           |       |
| 99 Bromoform                    | 173 | 9.311     | 9.311         | 0.000         | 97  | 46478    | 20.0         | 22.2           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.311     | 9.311         | 0.000         | 90  | 63263    | 20.0         | 11.0           |       |
| 100 Isopropylbenzene            | 105 | 9.448     | 9.448         | 0.000         | 95  | 191029   | 20.0         | 19.6           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.653     | 9.653         | 0.000         | 98  | 139680   | 50.0         | 53.1           |       |
| 102 Bromobenzene                | 156 | 9.790     | 9.790         | 0.000         | 89  | 72068    | 20.0         | 21.0           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.847     | 9.847         | 0.000         | 99  | 76930    | 20.0         | 18.6           |       |
| 104 N-Propylbenzene             | 91  | 9.859     | 9.859         | 0.000         | 99  | 232382   | 20.0         | 19.1           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.893     | 9.893         | 0.000         | 96  | 19407    | 20.0         | 19.3           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.916     | 9.916         | 0.000         | 84  | 15541    | 20.0         | 14.4           |       |
| 107 2-Chlorotoluene             | 91  | 9.962     | 9.962         | 0.000         | 97  | 183278   | 20.0         | 20.0           |       |
| 108 4-Ethyltoluene              | 105 | 9.973     | 9.973         | 0.000         | 98  | 218281   | 20.0         | 21.0           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.030    | 10.030        | 0.000         | 94  | 176164   | 20.0         | 20.8           |       |
| 110 4-Chlorotoluene             | 91  | 10.064    | 10.064        | 0.000         | 96  | 171886   | 20.0         | 19.6           |       |
| 111 Butyl Methacrylate          | 87  | 10.133    | 10.133        | 0.000         | 90  | 61583    | 20.0         | 15.0           |       |
| 112 tert-Butylbenzene           | 119 | 10.293    | 10.293        | 0.000         | 96  | 132832   | 20.0         | 20.0           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.338    | 10.338        | 0.000         | 97  | 183891   | 20.0         | 19.3           |       |
| 114 sec-Butylbenzene            | 105 | 10.464    | 10.464        | 0.000         | 99  | 187937   | 20.0         | 20.2           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.578    | 10.578        | 0.000         | 88  | 137227   | 20.0         | 22.5           |       |
| 115 4-Isopropyltoluene          | 119 | 10.578    | 10.578        | 0.000         | 98  | 164014   | 20.0         | 16.1           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.624    | 10.624        | 0.000         | 93  | 215993   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.647    | 10.647        | 0.000         | 97  | 143356   | 20.0         | 22.0           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.658    | 10.658        | 0.000         | 98  | 206349   | 20.0         | 20.1           |       |
| 119 Benzyl chloride             | 91  | 10.761    | 10.761        | 0.000         | 100 | 130155   | 20.0         | 19.0           |       |
| 120 2,3-Dihydroindene           | 117 | 10.795    | 10.795        | 0.000         | 94  | 219858   | 20.0         | 21.1           |       |
| 121 p-Diethylbenzene            | 119 | 10.841    | 10.841        | 0.000         | 95  | 99089    | 20.0         | 21.8           |       |
| 122 n-Butylbenzene              | 92  | 10.864    | 10.864        | 0.000         | 98  | 90411    | 20.0         | 21.2           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.909    | 10.909        | 0.000         | 99  | 138496   | 20.0         | 23.0           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.354    | 11.354        | 0.000         | 99  | 144764   | 20.0         | 14.7           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.423    | 11.423        | 0.000         | 89  | 12866    | 20.0         | 19.9           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.503    | 11.503        | 0.000         | 97  | 89124    | 20.0         | 23.6           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.880    | 11.880        | 0.000         | 93  | 76760    | 20.0         | 21.3           |       |
| 128 Hexachlorobutadiene         | 225 | 11.937    | 11.937        | 0.000         | 96  | 31252    | 20.0         | 25.8           |       |
| 129 Naphthalene                 | 128 | 12.039    | 12.039        | 0.000         | 100 | 187354   | 20.0         | 19.9           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.188    | 12.188        | 0.000         | 95  | 71316    | 20.0         | 21.7           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 43.5           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 38.9           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 99.6           |       |

**QC Flag Legend**

## Review Flags

a - User Assigned ID

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00281     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80066.b\\J76066.D

Injection Date: 10-Oct-2018 19:33:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

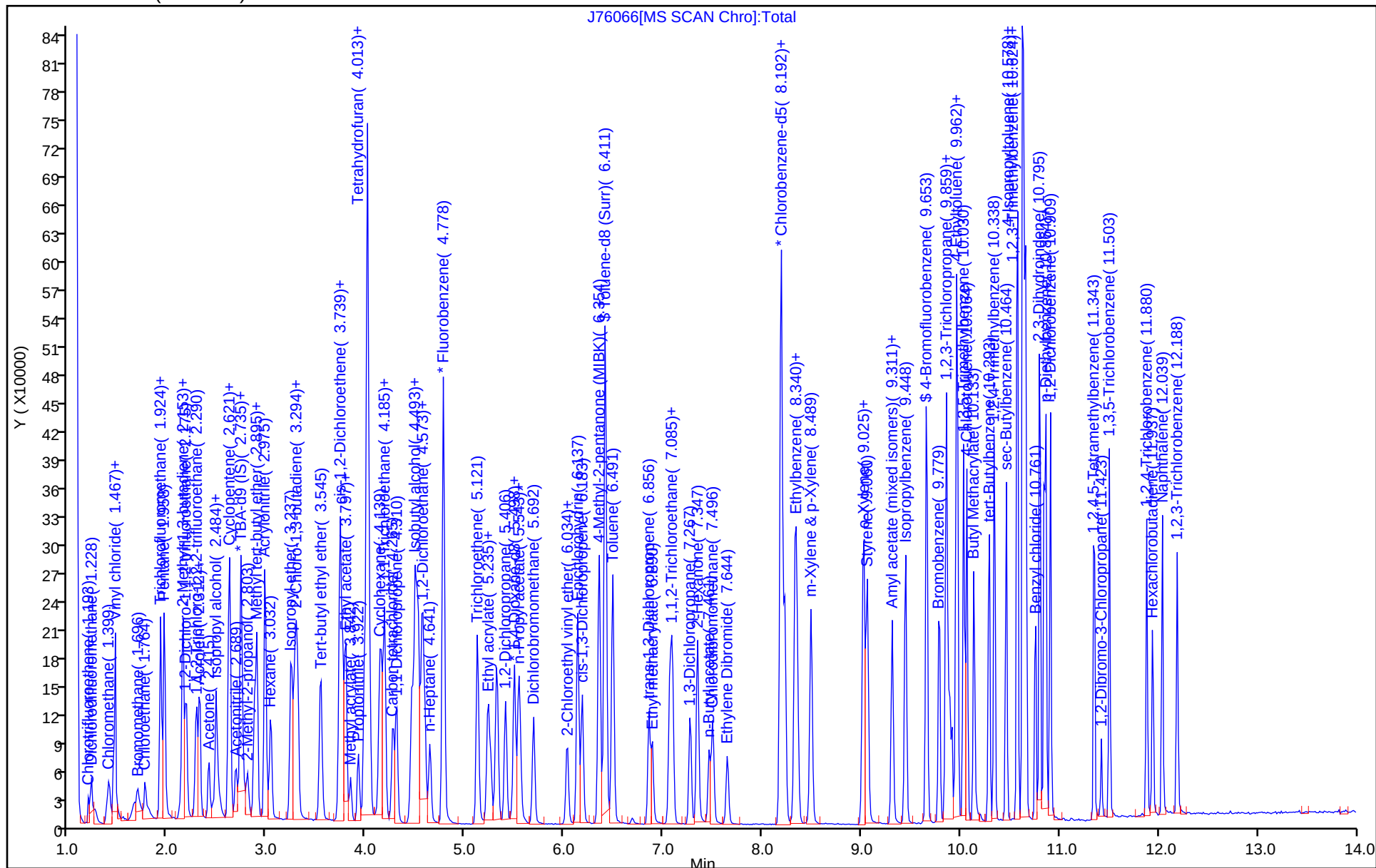
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)





## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\J76066.D

Injection Date: 10-Oct-2018 19:33:30

Instrument ID: CVOAMS8

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

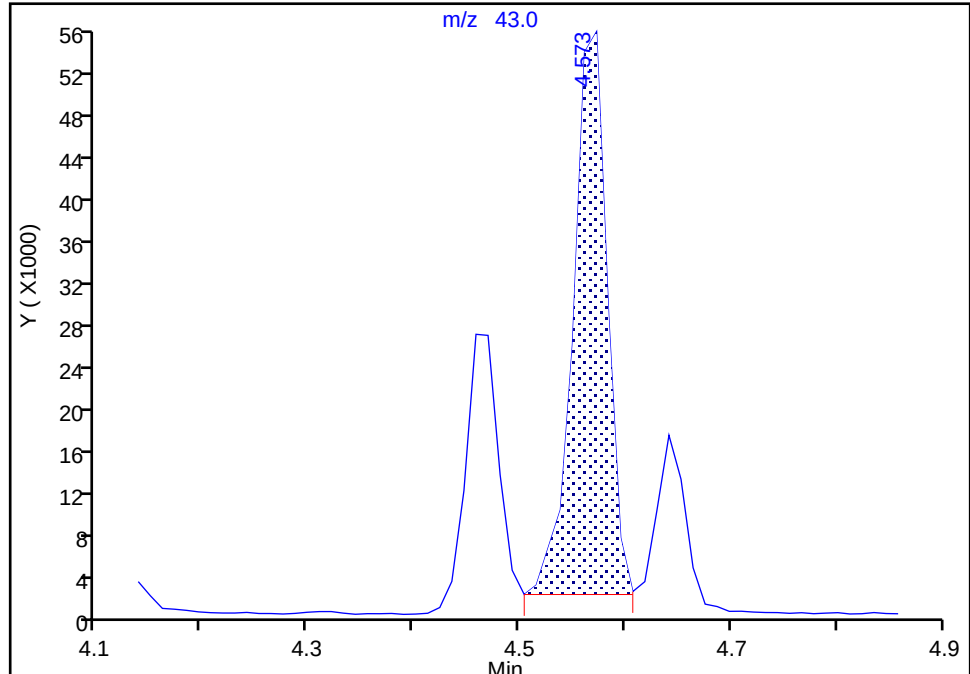
Detector: MS SCAN

**58 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

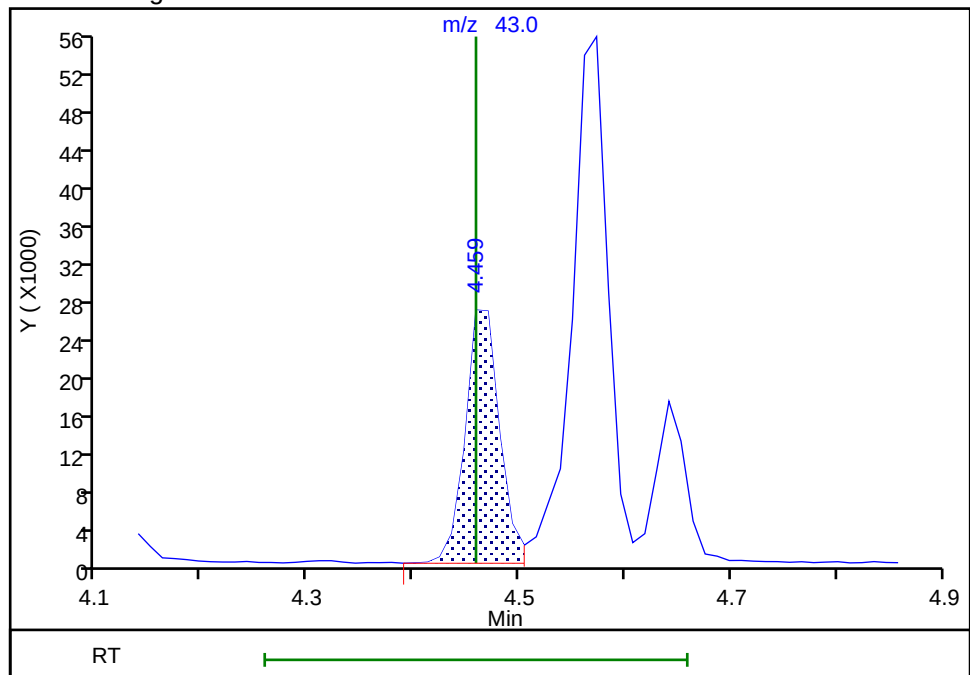
RT: 4.57  
Area: 119032  
Amount: 1058.1622  
Amount Units: ug/l

## Processing Integration Results



RT: 4.46  
Area: 60169  
Amount: 534.8861  
Amount Units: ug/l

## Manual Integration Results



Reviewer: moroneyc, 11-Oct-2018 08:17:55

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-559235/3 Calibration Date: 10/11/2018 08:03

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76116.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                               | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|---------------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Chlorotrifluoroethene                 | Ave        | 0.0506  | 0.0379 |         | 15.0        | 20.0         | -25.1* | 20.0   |
| Dichlorodifluoromethane               | Ave        | 0.3827  | 0.4363 | 0.1000  | 22.8        | 20.0         | 14.0   | 20.0   |
| Chloromethane                         | Ave        | 0.4501  | 0.4145 | 0.1000  | 18.4        | 20.0         | -7.9   | 20.0   |
| Vinyl chloride                        | Ave        | 0.4198  | 0.4215 | 0.1000  | 20.1        | 20.0         | 0.4    | 20.0   |
| Butadiene                             | Ave        | 0.3536  | 0.3167 |         | 17.9        | 20.0         | -10.5  | 20.0   |
| Bromomethane                          | Lin2       |         | 0.1584 | 0.1000  | 15.6        | 20.0         | -21.9  | 50.0   |
| Chloroethane                          | Ave        | 0.2065  | 0.2319 | 0.1000  | 22.5        | 20.0         | 12.3   | 50.0   |
| Dichlorofluoromethane                 | Ave        | 0.5763  | 0.6987 |         | 24.2        | 20.0         | 21.2*  | 20.0   |
| Trichlorofluoromethane                | Ave        | 0.4145  | 0.5517 | 0.1000  | 26.6        | 20.0         | 33.1*  | 20.0   |
| Pentane                               | Ave        | 1.440   | 1.228  |         | 34.1        | 40.0         | -14.7  | 20.0   |
| Ethanol                               | Ave        | 0.0716  | 0.0624 |         | 697         | 800          | -12.9  | 50.0   |
| Ethyl ether                           | Ave        | 0.2353  | 0.1995 |         | 17.0        | 20.0         | -15.2  | 20.0   |
| 2-Methyl-1,3-butadiene                | Ave        | 0.2574  | 0.2021 |         | 15.7        | 20.0         | -21.5* | 20.0   |
| 1,2-Dichloro-1,1,2-trifluoroethane    | Ave        | 0.2307  | 0.2412 |         | 20.9        | 20.0         | 4.5    | 20.0   |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave        | 0.2614  | 0.2775 | 0.1000  | 21.2        | 20.0         | 6.2    | 20.0   |
| Acrolein                              | Ave        | 2.150   | 2.135  |         | 39.7        | 40.0         | -0.7   | 50.0   |
| 1,1-Dichloroethene                    | Ave        | 0.2564  | 0.2547 | 0.1000  | 19.9        | 20.0         | -0.7   | 20.0   |
| Acetone                               | Ave        | 0.6485  | 0.6889 | 0.0500  | 106         | 100          | 6.2    | 50.0   |
| Iodomethane                           | Ave        | 0.4111  | 0.1238 |         | 6.02        | 20.0         | -69.9* | 20.0   |
| Carbon disulfide                      | Ave        | 1.023   | 0.9616 | 0.1000  | 18.8        | 20.0         | -6.0   | 50.0   |
| Isopropyl alcohol                     | Ave        | 0.8132  | 0.7683 |         | 189         | 200          | -5.5   | 50.0   |
| Allyl chloride                        | Ave        | 0.1712  | 0.1543 |         | 18.0        | 20.0         | -9.8   | 20.0   |
| Cyclopentene                          | Ave        | 0.7063  | 0.5984 |         | 16.9        | 20.0         | -15.3  | 20.0   |
| Methyl acetate                        | Ave        | 0.2731  | 0.2180 | 0.1000  | 31.9        | 40.0         | -20.2* | 20.0   |
| Acetonitrile                          | Ave        | 1.811   | 1.705  |         | 188         | 200          | -5.8   | 20.0   |
| Methylene Chloride                    | Lin2       |         | 0.3183 | 0.1000  | 19.7        | 20.0         | -1.5   | 20.0   |
| 2-Methyl-2-propanol                   | Ave        | 1.179   | 1.098  |         | 186         | 200          | -6.9   | 50.0   |
| Methyl tert-butyl ether               | Ave        | 0.7658  | 0.6920 | 0.1000  | 18.1        | 20.0         | -9.6   | 20.0   |
| trans-1,2-Dichloroethene              | Ave        | 0.2949  | 0.2978 | 0.1000  | 20.2        | 20.0         | 1.0    | 20.0   |
| Acrylonitrile                         | Ave        | 5.033   | 4.926  |         | 196         | 200          | -2.1   | 20.0   |
| Hexane                                | Ave        | 0.3085  | 0.2627 |         | 17.0        | 20.0         | -14.8  | 20.0   |
| Isopropyl ether                       | Ave        | 1.032   | 0.7984 |         | 15.5        | 20.0         | -22.6* | 20.0   |
| 1,1-Dichloroethane                    | Ave        | 0.5665  | 0.5079 | 0.2000  | 17.9        | 20.0         | -10.3  | 20.0   |
| Vinyl acetate                         | Ave        | 0.6162  | 0.5548 |         | 36.0        | 40.0         | -10.0  | 20.0   |
| 2-Chloro-1,3-butadiene                | Ave        | 0.2648  | 0.2571 |         | 19.4        | 20.0         | -2.9   | 20.0   |
| Tert-butyl ethyl ether                | Ave        | 0.8648  | 0.7102 |         | 16.4        | 20.0         | -17.9  | 20.0   |
| 2,2-Dichloropropane                   | Lin2       |         | 0.1331 |         | 19.7        | 20.0         | -1.6   | 20.0   |
| cis-1,2-Dichloroethene                | Ave        | 0.3388  | 0.3308 | 0.1000  | 19.5        | 20.0         | -2.4   | 20.0   |
| 2-Butanone (MEK)                      | Ave        | 0.2584  | 0.2774 | 0.0500  | 107         | 100          | 7.3    | 50.0   |
| Ethyl acetate                         | Ave        | 0.2526  | 0.2782 |         | 44.1        | 40.0         | 10.1   | 20.0   |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-559235/3 Calibration Date: 10/11/2018 08:03

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76116.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| Methyl acrylate             | Ave           | 0.3155  | 0.2541 |         | 16.1           | 20.0            | -19.5  | 20.0      |
| Propionitrile               | Ave           | 1.987   | 1.950  |         | 196            | 200             | -1.9   | 20.0      |
| Chlorobromomethane          | Ave           | 0.1658  | 0.1820 |         | 22.0           | 20.0            | 9.8    | 20.0      |
| Tetrahydrofuran             | Ave           | 0.2636  | 0.2709 |         | 41.1           | 40.0            | 2.8    | 20.0      |
| Methacrylonitrile           | Ave           | 0.1344  | 0.1266 |         | 188            | 200             | -5.8   | 20.0      |
| Chloroform                  | Ave           | 0.5187  | 0.5173 | 0.2000  | 19.9           | 20.0            | -0.3   | 20.0      |
| Cyclohexane                 | Ave           | 0.3406  | 0.3248 | 0.1000  | 19.1           | 20.0            | -4.6   | 50.0      |
| 1,1,1-Trichloroethane       | Ave           | 0.4141  | 0.4262 | 0.1000  | 20.6           | 20.0            | 2.9    | 20.0      |
| Carbon tetrachloride        | Ave           | 0.3628  | 0.3751 | 0.1000  | 20.7           | 20.0            | 3.4    | 20.0      |
| 1,1-Dichloropropene         | Ave           | 0.3715  | 0.3173 |         | 17.1           | 20.0            | -14.6  | 20.0      |
| 2,2,4-Trimethylpentane      | Ave           | 0.5075  | 0.4082 |         | 16.1           | 20.0            | -19.6  | 20.0      |
| Isobutyl alcohol            | Ave           | 0.6297  | 0.5627 |         | 447            | 500             | -10.6  | 50.0      |
| Benzene                     | Ave           | 1.489   | 1.408  | 0.5000  | 18.9           | 20.0            | -5.4   | 20.0      |
| Isopropyl acetate           | Ave           | 0.8590  | 0.6834 |         | 15.9           | 20.0            | -20.4* | 20.0      |
| Tert-amyl methyl ether      | Lin2          |         | 0.2086 |         | 17.8           | 20.0            | -10.9  | 20.0      |
| 1,2-Dichloroethane          | Ave           | 0.3974  | 0.3690 | 0.1000  | 18.6           | 20.0            | -7.1   | 20.0      |
| n-Heptane                   | Ave           | 0.1171  | 0.0984 |         | 16.8           | 20.0            | -16.0  | 20.0      |
| n-Butanol                   | Ave           | 0.2823  | 0.2366 |         | 419            | 500             | -16.2  | 50.0      |
| Trichloroethene             | Ave           | 0.2940  | 0.2848 | 0.2000  | 19.4           | 20.0            | -3.1   | 20.0      |
| Methylcyclohexane           | Lin2          |         | 0.3073 | 0.1000  | 17.6           | 20.0            | -11.9  | 50.0      |
| Ethyl acrylate              | Ave           | 0.4689  | 0.5662 |         | 24.2           | 20.0            | 20.8*  | 20.0      |
| 1,2-Dichloropropane         | Ave           | 0.3214  | 0.2844 | 0.1000  | 17.7           | 20.0            | -11.5  | 20.0      |
| Methyl methacrylate         | Ave           | 0.0722  | 0.0692 |         | 38.4           | 40.0            | -4.1   | 20.0      |
| 1,4-Dioxane                 | Ave           | 1.245   | 1.213  |         | 390            | 400             | -2.6   | 50.0      |
| Dibromomethane              | Ave           | 0.2139  | 0.2144 |         | 20.0           | 20.0            | 0.2    | 20.0      |
| n-Propyl acetate            | Ave           | 0.4891  | 0.3724 |         | 15.2           | 20.0            | -23.9* | 20.0      |
| Dichlorobromomethane        | Ave           | 0.4128  | 0.4005 | 0.2000  | 19.4           | 20.0            | -3.0   | 20.0      |
| 2-Nitropropane              | Ave           | 3.162   | 3.002  |         | 38.0           | 40.0            | -5.1   | 20.0      |
| 2-Chloroethyl vinyl ether   | QuaF          |         | 0.1297 |         | 11.9           | 20.0            | -40.3* | 20.0      |
| Epichlorohydrin             | Ave           | 0.2060  | 0.4481 |         | 870            | 400             | 117.5* | 20.0      |
| cis-1,3-Dichloropropene     | Ave           | 0.5945  | 0.5559 | 0.2000  | 18.7           | 20.0            | -6.5   | 50.0      |
| 4-Methyl-2-pentanone (MIBK) | Lin2          |         | 2.102  | 0.0500  | 99.5           | 100             | -0.5   | 50.0      |
| Toluene                     | Ave           | 1.520   | 1.421  | 0.4000  | 18.7           | 20.0            | -6.5   | 20.0      |
| trans-1,3-Dichloropropene   | Ave           | 0.5408  | 0.4235 | 0.1000  | 15.7           | 20.0            | -21.7  | 50.0      |
| Ethyl methacrylate          | QuaF          |         | 0.2606 |         | 12.8           | 20.0            | -36.2* | 20.0      |
| 1,1,2-Trichloroethane       | Ave           | 0.3335  | 0.3108 | 0.1000  | 18.6           | 20.0            | -6.8   | 20.0      |
| Tetrachloroethene           | Ave           | 0.3821  | 0.4303 | 0.2000  | 22.5           | 20.0            | 12.6   | 20.0      |
| 1,3-Dichloropropane         | Ave           | 0.5704  | 0.4988 |         | 17.5           | 20.0            | -12.6  | 20.0      |
| 2-Hexanone                  | Qua2          |         | 0.7343 | 0.0500  | 100            | 100             | -0.0   | 50.0      |
| n-Butyl acetate             | Lin2          |         | 0.4466 |         | 14.3           | 20.0            | -28.5* | 20.0      |
| Chlorodibromomethane        | Ave           | 0.4200  | 0.4351 | 0.1000  | 20.7           | 20.0            | 3.6    | 50.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-559235/3 Calibration Date: 10/11/2018 08:03

Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25

GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24

Lab File ID: J76116.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D     | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|--------|-----------|
| Ethylene Dibromide           | Ave           | 0.3805  | 0.3667 | 0.1000  | 19.3           | 20.0            | -3.6   | 20.0      |
| Chlorobenzene                | Ave           | 1.018   | 1.014  | 0.5000  | 19.9           | 20.0            | -0.3   | 20.0      |
| Ethylbenzene                 | Ave           | 0.4873  | 0.4637 | 0.1000  | 19.0           | 20.0            | -4.8   | 20.0      |
| 1,1,1,2-Tetrachloroethane    | Ave           | 0.3732  | 0.3864 |         | 20.7           | 20.0            | 3.5    | 20.0      |
| m-Xylene & p-Xylene          | Lin2          |         | 0.5221 | 0.1000  | 17.8           | 20.0            | -11.1  | 20.0      |
| o-Xylene                     | Lin2          |         | 0.4927 | 0.3000  | 17.0           | 20.0            | -15.2  | 20.0      |
| n-Butyl acrylate             | QuaF          |         | 0.2166 |         | 13.2           | 20.0            | -33.8* | 20.0      |
| Styrene                      | Lin2          |         | 1.005  | 0.3000  | 19.1           | 20.0            | -4.5   | 20.0      |
| Amyl acetate (mixed isomers) | QuaF          |         | 0.6822 |         | 10.2           | 20.0            | -48.8* | 20.0      |
| Bromoform                    | Ave           | 0.3005  | 0.3163 | 0.1000  | 21.0           | 20.0            | 5.2    | 20.0      |
| Isopropylbenzene             | Lin2          |         | 1.275  | 0.1000  | 18.3           | 20.0            | -8.4   | 20.0      |
| Bromobenzene                 | Ave           | 0.7945  | 0.7192 |         | 18.1           | 20.0            | -9.5   | 20.0      |
| 1,1,2,2-Tetrachloroethane    | Ave           | 0.9579  | 0.7741 | 0.3000  | 16.2           | 20.0            | -19.2  | 20.0      |
| N-Propylbenzene              | Ave           | 2.817   | 2.305  |         | 16.4           | 20.0            | -18.2  | 20.0      |
| 1,2,3-Trichloropropane       | Ave           | 0.2331  | 0.1945 |         | 16.7           | 20.0            | -16.6  | 20.0      |
| trans-1,4-Dichloro-2-butene  | Ave           | 0.2496  | 0.1645 |         | 13.2           | 20.0            | -34.1* | 20.0      |
| 2-Chlorotoluene              | Ave           | 2.124   | 1.836  |         | 17.3           | 20.0            | -13.5  | 20.0      |
| 4-Ethyltoluene               | Ave           | 2.401   | 2.213  |         | 18.4           | 20.0            | -7.8   | 20.0      |
| 1,3,5-Trimethylbenzene       | Ave           | 1.964   | 1.718  |         | 17.5           | 20.0            | -12.5  | 20.0      |
| 4-Chlorotoluene              | Ave           | 2.027   | 1.758  |         | 17.3           | 20.0            | -13.3  | 20.0      |
| Butyl Methacrylate           | QuaF          |         | 0.6263 |         | 13.2           | 20.0            | -34.0* | 20.0      |
| tert-Butylbenzene            | Ave           | 1.539   | 1.291  |         | 16.8           | 20.0            | -16.1  | 20.0      |
| 1,2,4-Trimethylbenzene       | Lin2          |         | 1.860  |         | 16.9           | 20.0            | -15.6  | 20.0      |
| sec-Butylbenzene             | Ave           | 2.150   | 1.886  |         | 17.5           | 20.0            | -12.3  | 20.0      |
| 1,3-Dichlorobenzene          | Ave           | 1.413   | 1.355  | 0.6000  | 19.2           | 20.0            | -4.1   | 20.0      |
| 4-Isopropyltoluene           | QuaF          |         | 1.673  |         | 14.2           | 20.0            | -29.2* | 20.0      |
| 1,4-Dichlorobenzene          | Ave           | 1.508   | 1.426  | 0.5000  | 18.9           | 20.0            | -5.4   | 20.0      |
| 1,2,3-Trimethylbenzene       | Ave           | 2.377   | 2.138  |         | 18.0           | 20.0            | -10.1  | 20.0      |
| Benzyl chloride              | Ave           | 1.587   | 1.263  |         | 15.9           | 20.0            | -20.4  | 50.0      |
| Indan                        | Ave           | 2.415   | 2.227  |         | 18.4           | 20.0            | -7.8   | 20.0      |
| p-Diethylbenzene             | Ave           | 1.051   | 0.9767 |         | 18.6           | 20.0            | -7.1   | 20.0      |
| n-Butylbenzene               | Ave           | 0.9874  | 0.8744 |         | 17.7           | 20.0            | -11.4  | 20.0      |
| 1,2-Dichlorobenzene          | Ave           | 1.391   | 1.329  | 0.4000  | 19.1           | 20.0            | -4.5   | 20.0      |
| 1,2,4,5-Tetramethylbenzene   | QuaF          |         | 1.413  |         | 12.4           | 20.0            | -38.0* | 20.0      |
| 1,2-Dibromo-3-Chloropropane  | Ave           | 0.1493  | 0.1355 | 0.0500  | 18.1           | 20.0            | -9.3   | 50.0      |
| 1,3,5-Trichlorobenzene       | Ave           | 0.8730  | 0.8403 |         | 19.3           | 20.0            | -3.7   | 20.0      |
| 1,2,4-Trichlorobenzene       | Ave           | 0.8331  | 0.6889 | 0.2000  | 16.5           | 20.0            | -17.3  | 20.0      |
| Hexachlorobutadiene          | Lin2          |         | 0.2862 |         | 20.3           | 20.0            | 1.4    | 20.0      |
| Naphthalene                  | Ave           | 2.183   | 1.626  |         | 14.9           | 20.0            | -25.5  | 50.0      |
| 1,2,3-Trichlorobenzene       | Ave           | 0.7595  | 0.6405 |         | 16.9           | 20.0            | -15.7  | 20.0      |
| Dibromofluoromethane (Surr)  | Ave           | 0.2691  | 0.2731 |         | 50.7           | 50.0            | 1.5    | 20.0      |

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCVIS 460-559235/3 Calibration Date: 10/11/2018 08:03  
Instrument ID: CVOAMS8 Calib Start Date: 09/20/2018 12:25  
GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 09/20/2018 21:24  
Lab File ID: J76116.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| 1,2-Dichloroethane-d4 (Surr) | Ave           | 0.2941  | 0.2691 |         | 45.7           | 50.0            | -8.5 | 20.0      |
| Toluene-d8 (Surr)            | Ave           | 1.192   | 1.131  |         | 47.4           | 50.0            | -5.1 | 20.0      |
| 4-Bromofluorobenzene         | Ave           | 0.3770  | 0.4053 |         | 53.8           | 50.0            | 7.5  | 20.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76116.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 11-Oct-2018 08:03:30 ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 460-0080093-003  
 Operator ID: Instrument ID: CVOAMS8  
 Sublist: chrom-8260\_W8\*sub49  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 09:21:07 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0317

First Level Reviewer: moroneyc

Date: 11-Oct-2018 08:28:59

| Compound                      | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.203     | 1.203         | 0.000         | 88  | 6347     | 20.0         | 15.0           |       |
| 2 Dichlorodifluoromethane     | 85  | 1.225     | 1.225         | 0.000         | 99  | 73110    | 20.0         | 22.8           |       |
| 3 Chloromethane               | 50  | 1.408     | 1.408         | 0.000         | 100 | 69460    | 20.0         | 18.4           |       |
| 4 Vinyl chloride              | 62  | 1.454     | 1.454         | 0.000         | 99  | 70639    | 20.0         | 20.1           |       |
| 5 Butadiene                   | 54  | 1.465     | 1.465         | 0.000         | 97  | 53065    | 20.0         | 17.9           |       |
| 6 Bromomethane                | 94  | 1.705     | 1.705         | 0.000         | 99  | 26540    | 20.0         | 15.6           |       |
| 7 Chloroethane                | 64  | 1.773     | 1.773         | 0.000         | 99  | 38861    | 20.0         | 22.5           |       |
| 9 Trichlorofluoromethane      | 101 | 1.933     | 1.933         | 0.000         | 98  | 92459    | 20.0         | 26.6           |       |
| 8 Dichlorofluoromethane       | 67  | 1.933     | 1.933         | 0.000         | 88  | 117094   | 20.0         | 24.2           |       |
| 10 Pentane                    | 72  | 1.968     | 1.968         | 0.000         | 95  | 9405     | 40.0         | 34.1           |       |
| 11 Ethanol                    | 46  | 2.116     | 2.116         | 0.000         | 68  | 9564     | 800.0        | 697.1          | a     |
| 12 Ethyl ether                | 59  | 2.150     | 2.150         | 0.000         | 96  | 33436    | 20.0         | 17.0           |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.162     | 2.162         | 0.000         | 96  | 33864    | 20.0         | 15.7           |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.184     | 2.184         | 0.000         | 94  | 40420    | 20.0         | 20.9           |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.287     | 2.287         | 0.000         | 99  | 46507    | 20.0         | 21.2           |       |
| 16 Acrolein                   | 56  | 2.299     | 2.299         | 0.000         | 92  | 16356    | 40.0         | 39.7           |       |
| 17 1,1-Dichloroethene         | 96  | 2.321     | 2.321         | 0.000         | 97  | 42689    | 20.0         | 19.9           |       |
| 18 Acetone                    | 43  | 2.413     | 2.413         | 0.000         | 86  | 69210    | 100.0        | 106.2          |       |
| 19 Iodomethane                | 142 | 2.470     | 2.470         | 0.000         | 97  | 20750    | 20.0         | 6.02           |       |
| 20 Carbon disulfide           | 76  | 2.493     | 2.493         | 0.000         | 99  | 161145   | 20.0         | 18.8           |       |
| 21 Isopropyl alcohol          | 45  | 2.504     | 2.504         | 0.000         | 97  | 29426    | 200.0        | 189.0          |       |
| 22 3-Chloro-1-propene         | 76  | 2.618     | 2.618         | 0.000         | 92  | 25863    | 20.0         | 18.0           |       |
| 23 Cyclopentene               | 67  | 2.630     | 2.630         | 0.000         | 91  | 100287   | 20.0         | 16.9           |       |
| 24 Methyl acetate             | 43  | 2.630     | 2.630         | 0.000         | 99  | 73059    | 40.0         | 31.9           |       |
| 25 Acetonitrile               | 41  | 2.687     | 2.687         | 0.000         | 99  | 65300    | 200.0        | 188.3          |       |
| * 27 TBA-d9 (IS)              | 65  | 2.744     | 2.744         | 0.000         | 0   | 191510   | 1000.0       | 1000.0         |       |
| 26 Methylene Chloride         | 84  | 2.744     | 2.744         | 0.000         | 54  | 53344    | 20.0         | 19.7           |       |
| 28 2-Methyl-2-propanol        | 59  | 2.801     | 2.801         | 0.000         | 99  | 42059    | 200.0        | 186.3          |       |
| 29 Methyl tert-butyl ether    | 73  | 2.881     | 2.881         | 0.000         | 98  | 115960   | 20.0         | 18.1           |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.904     | 2.904         | 0.000         | 93  | 49903    | 20.0         | 20.2           |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 31 Acrylonitrile                 | 53  | 2.984     | 2.984         | 0.000         | 94  | 188687   | 200.0        | 195.8          |       |
| 32 Hexane                        | 57  | 3.041     | 3.041         | 0.000         | 93  | 44020    | 20.0         | 17.0           |       |
| 33 Isopropyl ether               | 45  | 3.246     | 3.246         | 0.000         | 98  | 133791   | 20.0         | 15.5           |       |
| 34 1,1-Dichloroethane            | 63  | 3.280     | 3.280         | 0.000         | 100 | 85117    | 20.0         | 17.9           |       |
| 35 Vinyl acetate                 | 43  | 3.303     | 3.303         | 0.000         | 100 | 185946   | 40.0         | 36.0           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.315     | 3.315         | 0.000         | 89  | 43079    | 20.0         | 19.4           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.543     | 3.543         | 0.000         | 89  | 119016   | 20.0         | 16.4           |       |
| 38 2,2-Dichloropropane           | 79  | 3.737     | 3.737         | 0.000         | 93  | 22308    | 20.0         | 19.7           |       |
| * 39 2-Butanone-d5               | 46  | 3.749     | 3.749         | 0.000         | 0   | 251153   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.771     | 3.771         | 0.000         | 99  | 55434    | 20.0         | 19.5           |       |
| 41 2-Butanone (MEK)              | 72  | 3.794     | 3.794         | 0.000         | 96  | 27867    | 100.0        | 107.3          |       |
| 42 Ethyl acetate                 | 70  | 3.806     | 3.806         | 0.000         | 96  | 11178    | 40.0         | 44.1           |       |
| 43 Methyl acrylate               | 55  | 3.851     | 3.851         | 0.000         | 99  | 42583    | 20.0         | 16.1           |       |
| 44 Propionitrile                 | 54  | 3.931     | 3.931         | 0.000         | 98  | 74681    | 200.0        | 196.2          |       |
| 46 Chlorobromomethane            | 128 | 3.988     | 3.988         | 0.000         | 87  | 30502    | 20.0         | 22.0           |       |
| 45 Tetrahydrofuran               | 72  | 3.988     | 3.988         | 0.000         | 93  | 10886    | 40.0         | 41.1           |       |
| 47 Methacrylonitrile             | 67  | 4.023     | 4.023         | 0.000         | 92  | 212102   | 200.0        | 188.3          |       |
| 48 Chloroform                    | 83  | 4.045     | 4.045         | 0.000         | 99  | 86695    | 20.0         | 19.9           |       |
| 49 Cyclohexane                   | 84  | 4.148     | 4.148         | 0.000         | 92  | 54432    | 20.0         | 19.1           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.160     | 4.160         | 0.000         | 98  | 71429    | 20.0         | 20.6           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.194     | 4.194         | 0.000         | 98  | 114424   | 50.0         | 50.7           |       |
| 52 Carbon tetrachloride          | 117 | 4.274     | 4.274         | 0.000         | 98  | 62865    | 20.0         | 20.7           |       |
| 53 1,1-Dichloropropene           | 75  | 4.308     | 4.308         | 0.000         | 97  | 53170    | 20.0         | 17.1           |       |
| 54 Isooctane                     | 57  | 4.468     | 4.468         | 0.000         | 71  | 68402    | 20.0         | 16.1           |       |
| 58 Isobutyl alcohol              | 43  | 4.468     | 4.468         | 0.000         | 77  | 53879    | 500.0        | 446.8          | a     |
| 55 Benzene                       | 78  | 4.502     | 4.502         | 0.000         | 95  | 192321   | 20.0         | 18.9           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.525     | 4.525         | 0.000         | 0   | 112728   | 50.0         | 45.7           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.571     | 4.571         | 0.000         | 89  | 34952    | 20.0         | 17.8           |       |
| 59 Isopropyl acetate             | 43  | 4.571     | 4.571         | 0.000         | 96  | 114520   | 20.0         | 15.9           |       |
| 60 1,2-Dichloroethane            | 62  | 4.605     | 4.605         | 0.000         | 97  | 61840    | 20.0         | 18.6           |       |
| 61 n-Heptane                     | 57  | 4.650     | 4.650         | 0.000         | 90  | 16483    | 20.0         | 16.8           |       |
| * 62 Fluorobenzene               | 96  | 4.787     | 4.787         | 0.000         | 99  | 418960   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.119     | 5.119         | 0.000         | 93  | 22658    | 500.0        | 419.1          |       |
| 64 Trichloroethene               | 95  | 5.130     | 5.130         | 0.000         | 96  | 47729    | 20.0         | 19.4           |       |
| 65 Methylcyclohexane             | 83  | 5.244     | 5.244         | 0.000         | 94  | 51500    | 20.0         | 17.6           |       |
| 66 Ethyl acrylate                | 55  | 5.267     | 5.267         | 0.000         | 97  | 94886    | 20.0         | 24.2           |       |
| 67 1,2-Dichloropropane           | 63  | 5.415     | 5.415         | 0.000         | 91  | 47668    | 20.0         | 17.7           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.484     | 5.484         | 0.000         | 0   | 23914    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.507     | 5.507         | 0.000         | 87  | 23199    | 40.0         | 38.4           |       |
| 70 1,4-Dioxane                   | 88  | 5.541     | 5.541         | 0.000         | 46  | 11605    | 400.0        | 389.8          |       |
| 71 Dibromomethane                | 93  | 5.541     | 5.541         | 0.000         | 96  | 35923    | 20.0         | 20.0           |       |
| 72 n-Propyl acetate              | 43  | 5.564     | 5.564         | 0.000         | 98  | 62406    | 20.0         | 15.2           |       |
| 73 Dichlorobromomethane          | 83  | 5.701     | 5.701         | 0.000         | 99  | 67116    | 20.0         | 19.4           |       |
| 74 2-Nitropropane                | 41  | 6.032     | 6.032         | 0.000         | 89  | 22994    | 40.0         | 38.0           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.043     | 6.043         | 0.000         | 70  | 21729    | 20.0         | 11.9           |       |
| 76 Epichlorohydrin               | 57  | 6.146     | 6.146         | 0.000         | 100 | 180067   | 400.0        | 870.1          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.192     | 6.192         | 0.000         | 90  | 75911    | 20.0         | 18.7           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.363     | 6.363         | 0.000         | 97  | 211188   | 100.0        | 99.5           |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.420     | 6.420         | 0.000         | 99  | 386232   | 50.0         | 47.4           |       |
| 80 Toluene                       | 91  | 6.500     | 6.500         | 0.000         | 92  | 194078   | 20.0         | 18.7           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.865     | 6.865         | 0.000         | 97  | 57835    | 20.0         | 15.7           |       |
| 82 Ethyl methacrylate            | 69  | 6.900     | 6.900         | 0.000         | 89  | 43678    | 20.0         | 12.8           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 83 1,1,2-Trichloroethane        | 83  | 7.071     | 7.071         | 0.000         | 96  | 42434    | 20.0         | 18.6           |       |
| 84 Tetrachloroethene            | 166 | 7.105     | 7.105         | 0.000         | 95  | 58752    | 20.0         | 22.5           |       |
| 85 1,3-Dichloropropane          | 76  | 7.276     | 7.276         | 0.000         | 92  | 68108    | 20.0         | 17.5           |       |
| 86 2-Hexanone                   | 58  | 7.356     | 7.356         | 0.000         | 98  | 73767    | 100.0        | 100.0          |       |
| 87 n-Butyl acetate              | 43  | 7.470     | 7.470         | 0.000         | 99  | 60984    | 20.0         | 14.3           |       |
| 88 Chlorodibromomethane         | 129 | 7.505     | 7.505         | 0.000         | 97  | 59417    | 20.0         | 20.7           |       |
| 89 Ethylene Dibromide           | 107 | 7.653     | 7.653         | 0.000         | 98  | 50072    | 20.0         | 19.3           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.201     | 8.201         | 0.000         | 83  | 341381   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.235     | 8.235         | 0.000         | 97  | 138517   | 20.0         | 19.9           |       |
| 92 Ethylbenzene                 | 106 | 8.338     | 8.338         | 0.000         | 98  | 63318    | 20.0         | 19.0           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.361     | 8.361         | 0.000         | 97  | 52757    | 20.0         | 20.7           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.498     | 8.498         | 0.000         | 0   | 71289    | 20.0         | 17.8           |       |
| 96 o-Xylene                     | 106 | 9.023     | 9.023         | 0.000         | 95  | 67280    | 20.0         | 17.0           |       |
| 95 n-Butyl acrylate             | 73  | 9.035     | 9.035         | 0.000         | 96  | 29571    | 20.0         | 13.2           |       |
| 97 Styrene                      | 104 | 9.069     | 9.069         | 0.000         | 97  | 137167   | 20.0         | 19.1           |       |
| 99 Bromoform                    | 173 | 9.320     | 9.320         | 0.000         | 81  | 43186    | 20.0         | 21.0           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.320     | 9.320         | 0.000         | 92  | 59776    | 20.0         | 10.2           |       |
| 100 Isopropylbenzene            | 105 | 9.457     | 9.457         | 0.000         | 95  | 174118   | 20.0         | 18.3           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.662     | 9.662         | 0.000         | 96  | 138366   | 50.0         | 53.8           |       |
| 102 Bromobenzene                | 156 | 9.788     | 9.788         | 0.000         | 90  | 63020    | 20.0         | 18.1           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.857     | 9.857         | 0.000         | 98  | 67833    | 20.0         | 16.2           |       |
| 104 N-Propylbenzene             | 91  | 9.868     | 9.868         | 0.000         | 100 | 201957   | 20.0         | 16.4           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.891     | 9.891         | 0.000         | 94  | 17043    | 20.0         | 16.7           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.914     | 9.914         | 0.000         | 76  | 14414    | 20.0         | 13.2           |       |
| 107 2-Chlorotoluene             | 91  | 9.959     | 9.959         | 0.000         | 97  | 160910   | 20.0         | 17.3           |       |
| 108 4-Ethyltoluene              | 105 | 9.971     | 9.971         | 0.000         | 98  | 193950   | 20.0         | 18.4           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.039    | 10.039        | 0.000         | 95  | 150535   | 20.0         | 17.5           |       |
| 110 4-Chlorotoluene             | 91  | 10.073    | 10.073        | 0.000         | 95  | 154041   | 20.0         | 17.3           |       |
| 111 Butyl Methacrylate          | 87  | 10.142    | 10.142        | 0.000         | 89  | 54880    | 20.0         | 13.2           |       |
| 112 tert-Butylbenzene           | 119 | 10.290    | 10.290        | 0.000         | 95  | 113111   | 20.0         | 16.8           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.347    | 10.347        | 0.000         | 96  | 162992   | 20.0         | 16.9           |       |
| 114 sec-Butylbenzene            | 105 | 10.462    | 10.462        | 0.000         | 99  | 165261   | 20.0         | 17.5           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.576    | 10.576        | 0.000         | 90  | 118728   | 20.0         | 19.2           |       |
| 115 4-Isopropyltoluene          | 119 | 10.576    | 10.576        | 0.000         | 97  | 146562   | 20.0         | 14.2           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.633    | 10.633        | 0.000         | 92  | 219058   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.656    | 10.656        | 0.000         | 96  | 124929   | 20.0         | 18.9           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.667    | 10.667        | 0.000         | 97  | 187364   | 20.0         | 18.0           |       |
| 119 Benzyl chloride             | 91  | 10.758    | 10.758        | 0.000         | 100 | 110709   | 20.0         | 15.9           |       |
| 120 2,3-Dihydroindene           | 117 | 10.804    | 10.804        | 0.000         | 94  | 195143   | 20.0         | 18.4           |       |
| 121 p-Diethylbenzene            | 119 | 10.850    | 10.850        | 0.000         | 95  | 85578    | 20.0         | 18.6           |       |
| 122 n-Butylbenzene              | 92  | 10.861    | 10.861        | 0.000         | 98  | 76615    | 20.0         | 17.7           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.907    | 10.907        | 0.000         | 99  | 116432   | 20.0         | 19.1           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.352    | 11.352        | 0.000         | 98  | 123833   | 20.0         | 12.4           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.421    | 11.421        | 0.000         | 94  | 11870    | 20.0         | 18.1           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.501    | 11.501        | 0.000         | 98  | 73626    | 20.0         | 19.3           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.877    | 11.877        | 0.000         | 93  | 60363    | 20.0         | 16.5           |       |
| 128 Hexachlorobutadiene         | 225 | 11.946    | 11.946        | 0.000         | 98  | 25079    | 20.0         | 20.3           |       |
| 129 Naphthalene                 | 128 | 12.037    | 12.037        | 0.000         | 100 | 142516   | 20.0         | 14.9           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.186    | 12.186        | 0.000         | 95  | 56119    | 20.0         | 16.9           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 39.7           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 34.8           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 91.4           |       |



**QC Flag Legend**

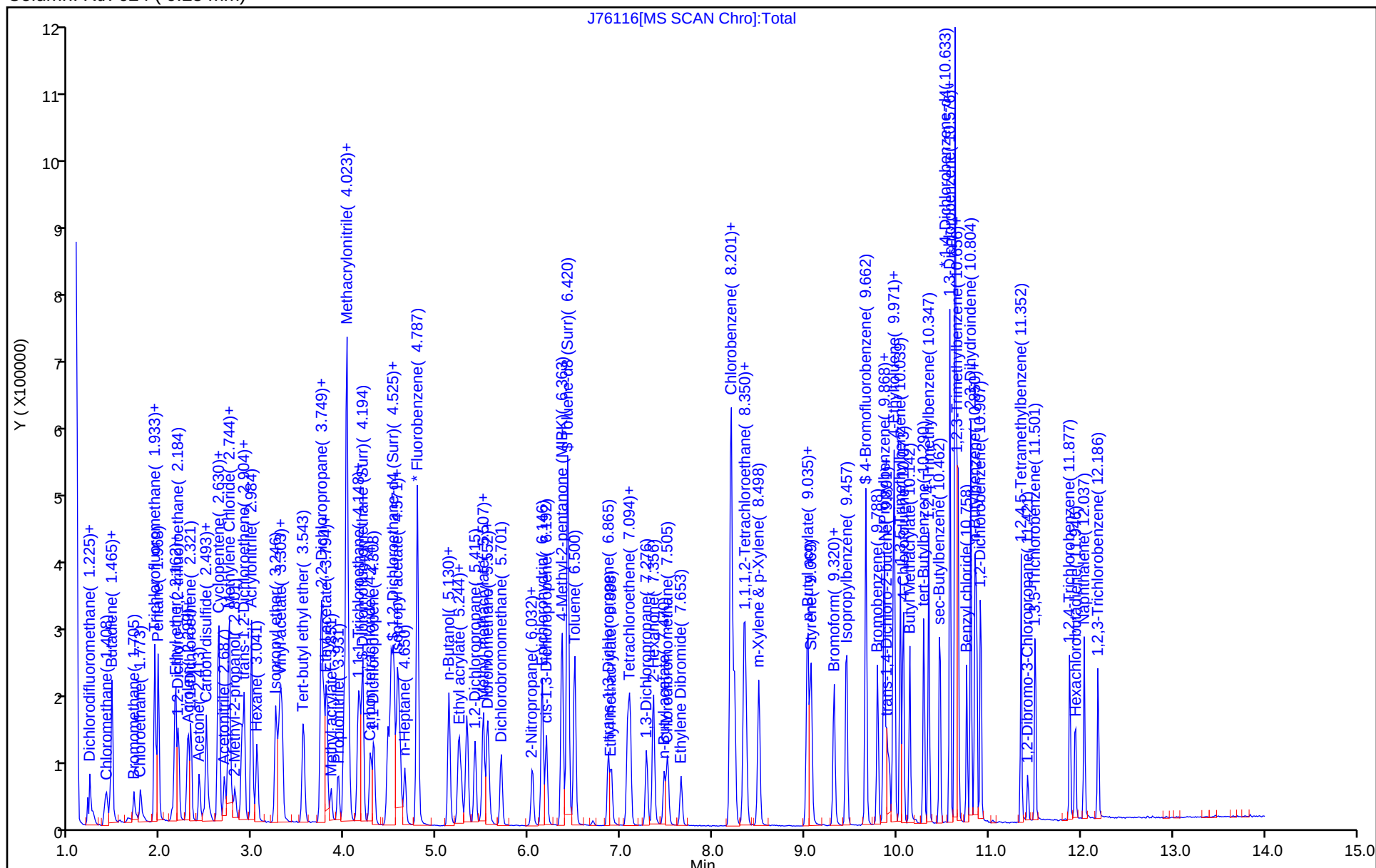
## Review Flags

a - User Assigned ID

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00281     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76116.D

Injection Date: 11-Oct-2018 08:03:30

Instrument ID: CVOAMS8

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

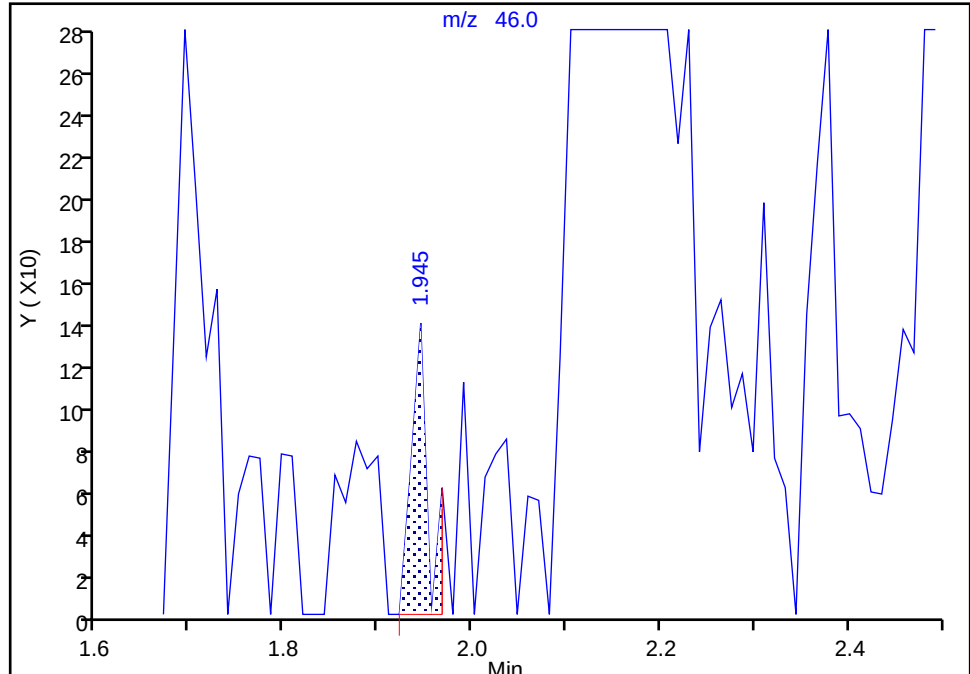
Detector: MS SCAN

**11 Ethanol, CAS: 64-17-5**

Signal: 1

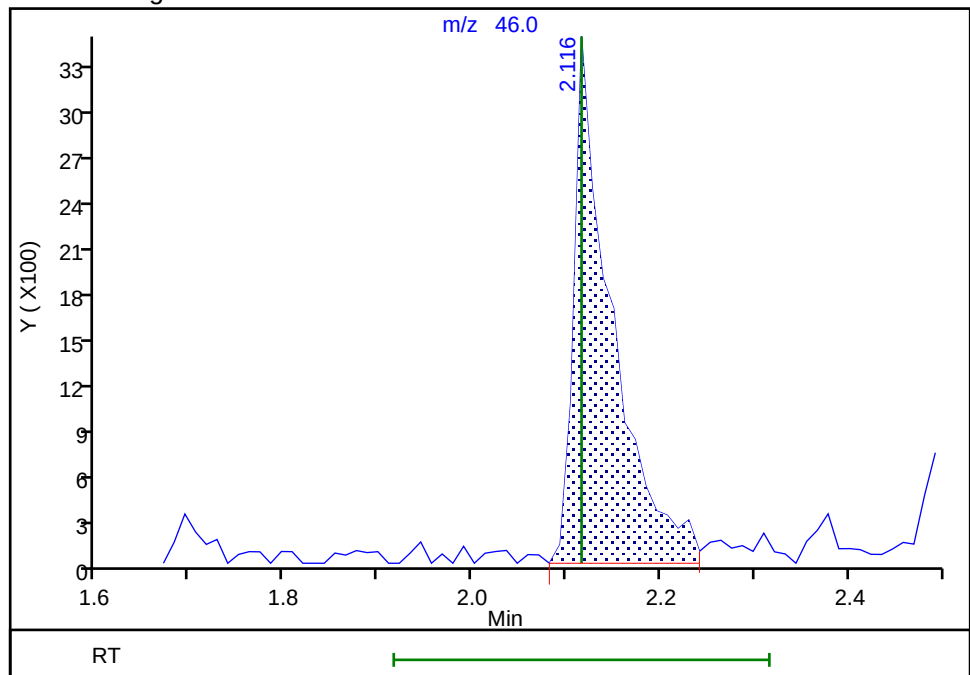
RT: 1.94  
Area: 180  
Amount: 13.120302  
Amount Units: ug/l

## Processing Integration Results



RT: 2.12  
Area: 9564  
Amount: 697.1254  
Amount Units: ug/l

## Manual Integration Results



Reviewer: moroneyc, 11-Oct-2018 09:17:58

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76116.D

Injection Date: 11-Oct-2018 08:03:30

Instrument ID: CVOAMS8

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)

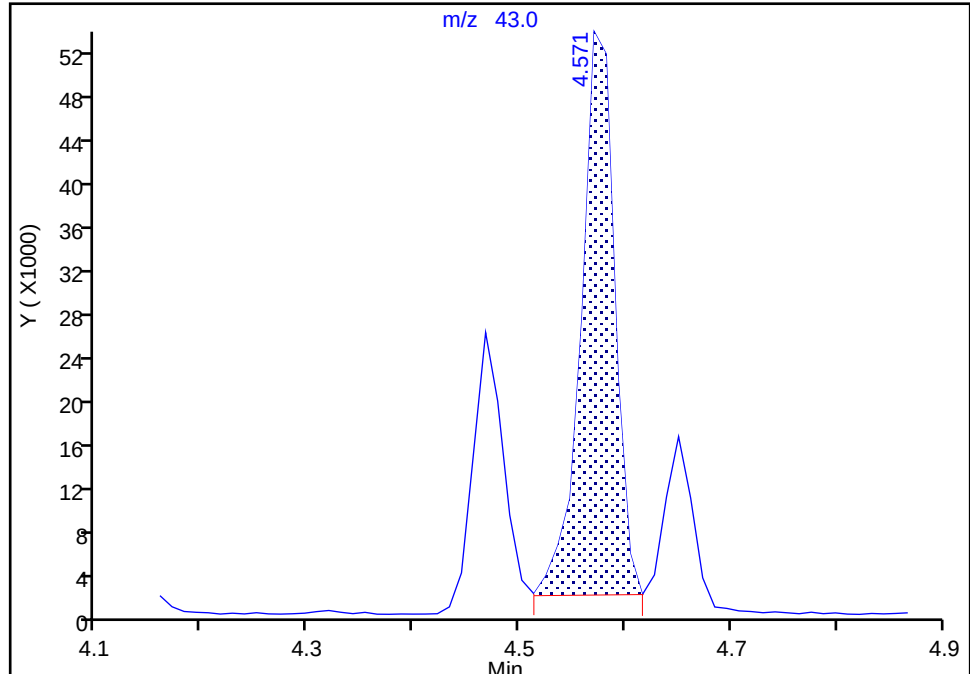
Detector: MS SCAN

**58 Isobutyl alcohol, CAS: 78-83-1**

Signal: 1

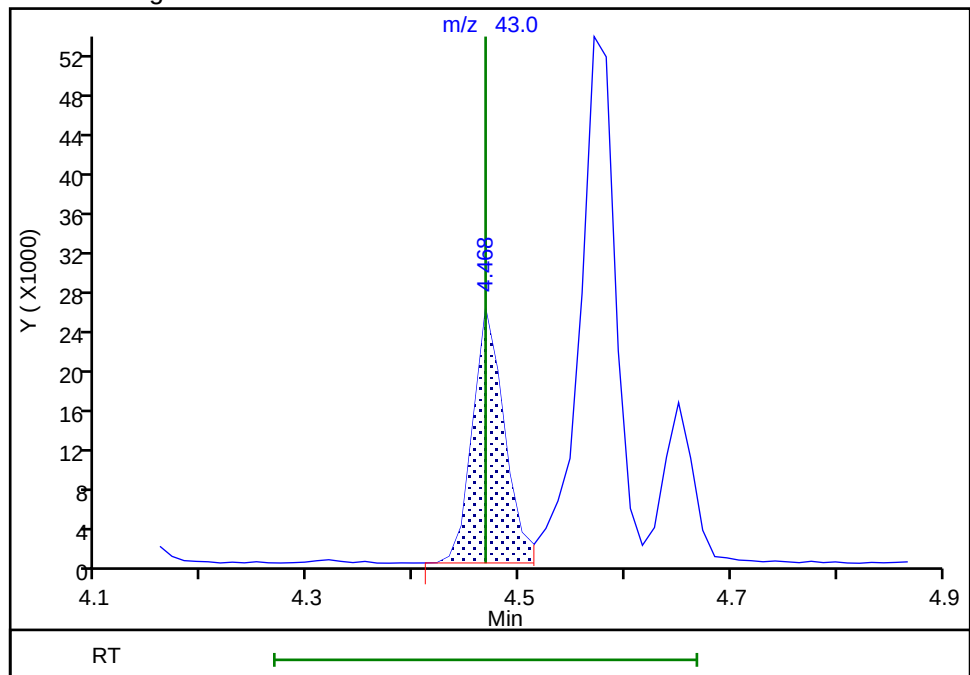
RT: 4.57  
Area: 113648  
Amount: 942.3838  
Amount Units: ug/l

## Processing Integration Results



RT: 4.47  
Area: 53879  
Amount: 446.7716  
Amount Units: ug/l

## Manual Integration Results



Reviewer: moroneyc, 11-Oct-2018 09:18:18

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75064.D  
Lims ID: BFB  
Client ID:  
Sample Type: BFB  
Inject. Date: 20-Sep-2018 11:34:30 ALS Bottle#: 99 Worklist Smp#: 1  
Injection Vol: 5.0 mL Dil. Factor: 1.0000  
Sample Info: BFB  
Misc. Info.: 460-0078971-001  
Operator ID: Instrument ID: CVOAMS8  
Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\8260\_W8.m  
Limit Group: VOA - 8260C Water and Solid  
Last Update: 21-Sep-2018 15:37:55 Calib Date: 20-Sep-2018 21:24:30  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
Process Host: XAWRK007

First Level Reviewer: moroneyc

Date: 20-Sep-2018 11:43:27

| Compound | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

|            |    |       |       |       |    |       |    |    |  |
|------------|----|-------|-------|-------|----|-------|----|----|--|
| \$ 135 BFB | 95 | 4.276 | 4.276 | 0.000 | 90 | 78822 | NR | NR |  |
|------------|----|-------|-------|-------|----|-------|----|----|--|

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

BFB\_00017

Amount Added: 1.00

Units: uL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75064.D

Injection Date: 20-Sep-2018 11:34:30

Instrument ID: CVOAMS8

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 99 Worklist Smp#: 1

Injection Vol: 5.0 mL

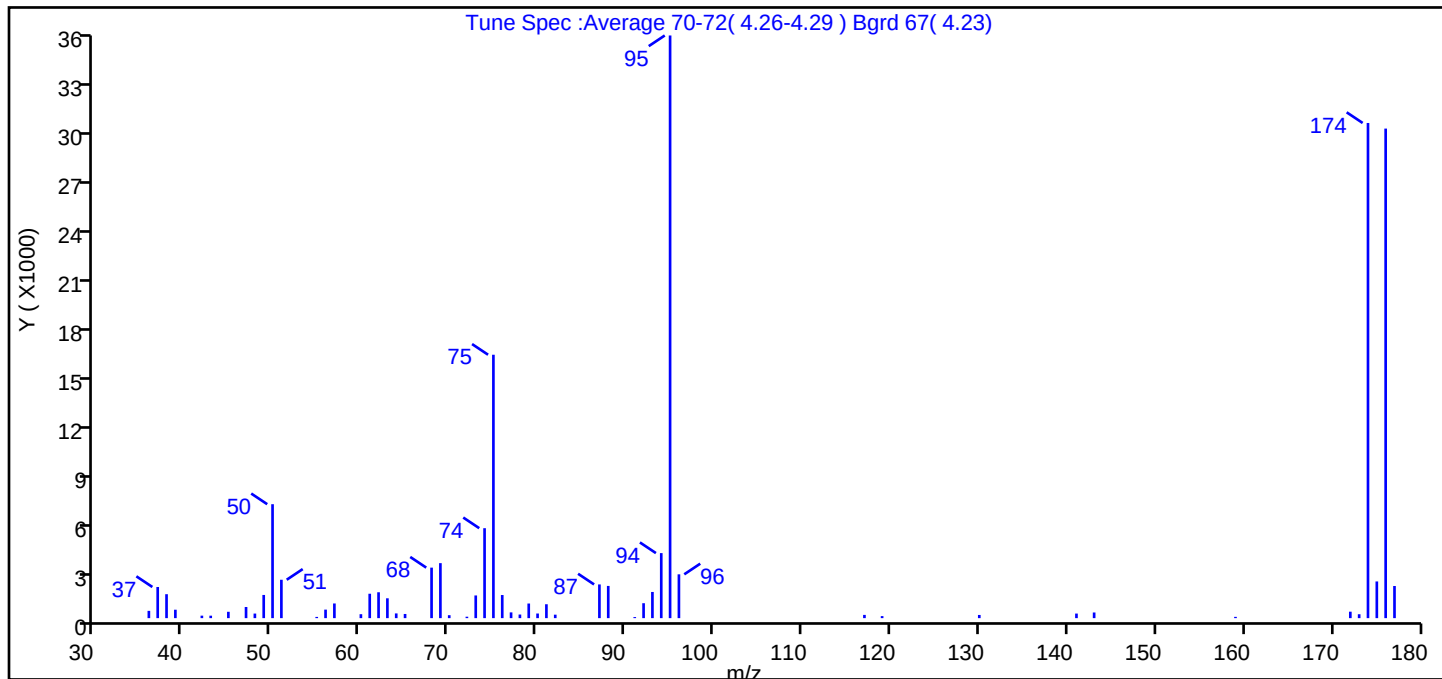
Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 135 BFB



| m/z | Ion Abundance Criteria                         | % Relative Abundance |
|-----|------------------------------------------------|----------------------|
| 95  | Base peak, 100% relative abundance             | 100.0                |
| 50  | 15 to 40% of m/z 95                            | 19.6                 |
| 75  | 30 to 60% of m/z 95                            | 45.2                 |
| 96  | 5 to 9% of m/z 95                              | 7.5                  |
| 173 | Less than 2% of m/z 174                        | 0.7 (0.8)            |
| 174 | 50 to 120% of m/z 95                           | 85.0                 |
| 175 | 5 to 9% of m/z 174                             | 6.3 (7.4)            |
| 176 | Greater than 95% but less than 101% of m/z 174 | 84.0 (98.9)          |
| 177 | 5 to 9% of m/z 176                             | 5.5 (6.6)            |

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75064.D\8260\_W8.rslt\spectra.d  
Injection Date: 20-Sep-2018 11:34:30  
Spectrum: Tune Spec :Average 70-72( 4.26-4.29 ) Bgrd 67( 4.23)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 55

| m/z   | Y    | m/z   | Y     | m/z   | Y     | m/z    | Y     |
|-------|------|-------|-------|-------|-------|--------|-------|
| 36.00 | 447  | 57.00 | 900   | 76.00 | 1418  | 96.00  | 2688  |
| 37.00 | 1911 | 60.00 | 242   | 77.00 | 353   | 117.00 | 199   |
| 38.00 | 1469 | 61.00 | 1497  | 78.00 | 222   | 119.00 | 125   |
| 39.00 | 517  | 62.00 | 1588  | 79.00 | 897   | 130.00 | 196   |
| 42.00 | 153  | 63.00 | 1218  | 80.00 | 284   | 141.00 | 281   |
| 43.00 | 151  | 64.00 | 290   | 81.00 | 853   | 143.00 | 347   |
| 45.00 | 390  | 65.00 | 256   | 82.00 | 213   | 159.00 | 79    |
| 47.00 | 684  | 68.00 | 3099  | 87.00 | 2068  | 172.00 | 396   |
| 48.00 | 281  | 69.00 | 3374  | 88.00 | 1976  | 173.00 | 240   |
| 49.00 | 1423 | 70.00 | 181   | 91.00 | 66    | 174.00 | 30376 |
| 50.00 | 6990 | 72.00 | 88    | 92.00 | 916   | 175.00 | 2251  |
| 51.00 | 2355 | 73.00 | 1392  | 93.00 | 1606  | 176.00 | 30032 |
| 55.00 | 76   | 74.00 | 5518  | 94.00 | 3990  | 177.00 | 1972  |
| 56.00 | 523  | 75.00 | 16159 | 95.00 | 35744 |        |       |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76036.D  
Lims ID: BFB  
Client ID:  
Sample Type: BFB  
Inject. Date: 09-Oct-2018 19:13:30 ALS Bottle#: 99 Worklist Smp#: 1  
Injection Vol: 5.0 mL Dil. Factor: 1.0000  
Sample Info: BFB  
Misc. Info.: 460-0080013-001  
Operator ID: Instrument ID: CVOAMS8  
Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
Limit Group: VOA - 8260C Water and Solid  
Last Update: 09-Oct-2018 22:44:31 Calib Date: 20-Sep-2018 21:24:30  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
Process Host: CTX0308

First Level Reviewer: parekhv

Date: 09-Oct-2018 19:24:31

| Compound | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

|            |    |       |       |       |    |       |    |    |  |
|------------|----|-------|-------|-------|----|-------|----|----|--|
| \$ 135 BFB | 95 | 4.264 | 4.264 | 0.000 | 91 | 47057 | NR | NR |  |
|------------|----|-------|-------|-------|----|-------|----|----|--|

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

BFB\_00017

Amount Added: 1.00

Units: uL



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76036.D

Injection Date: 09-Oct-2018 19:13:30

Instrument ID: CVOAMS8

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#:

99

Worklist Smp#:

1

Injection Vol: 5.0 mL

Dil. Factor:

1.0000

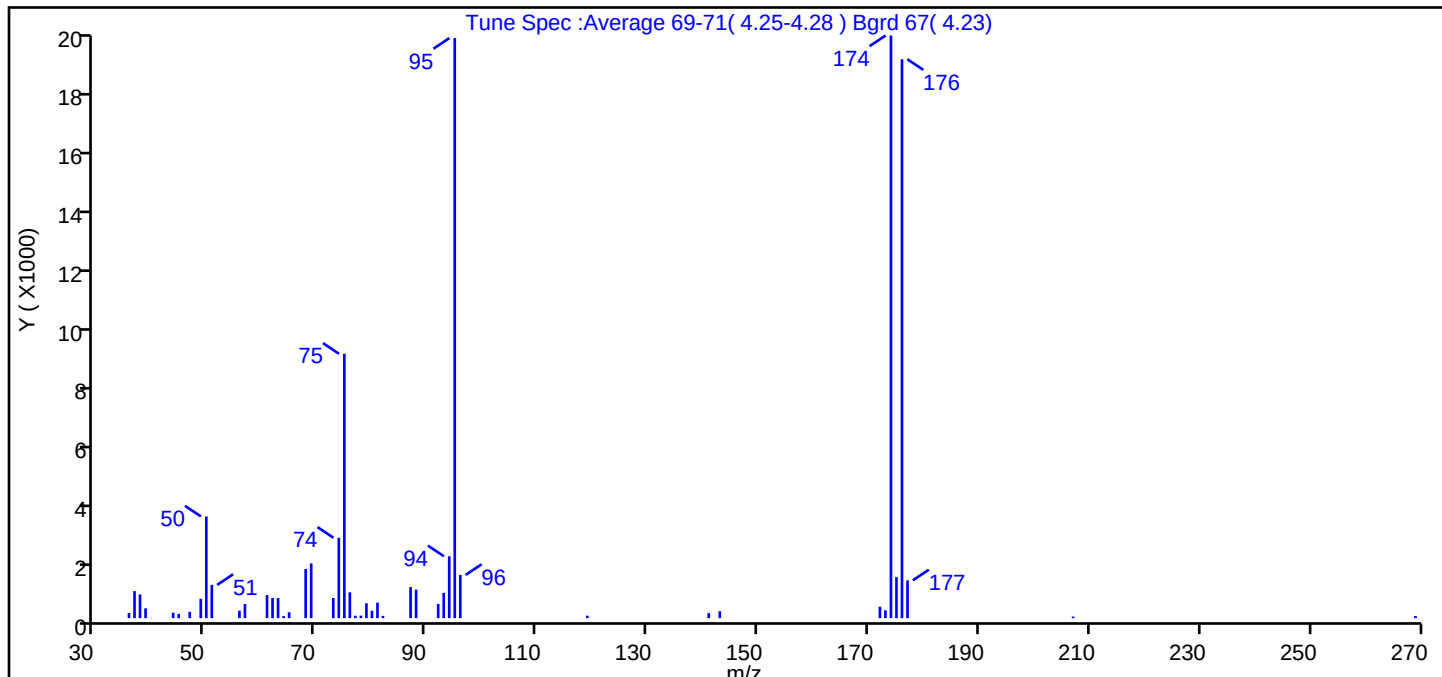
Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 135 BFB



| m/z | Ion Abundance Criteria                         | % Relative Abundance |
|-----|------------------------------------------------|----------------------|
| 95  | Base peak, 100% relative abundance             | 100.0                |
| 50  | 15 to 40% of m/z 95                            | 17.5                 |
| 75  | 30 to 60% of m/z 95                            | 45.6                 |
| 96  | 5 to 9% of m/z 95                              | 7.4                  |
| 173 | Less than 2% of m/z 174                        | 1.3 (1.3)            |
| 174 | 50 to 120% of m/z 95                           | 100.4                |
| 175 | 5 to 9% of m/z 174                             | 7.1 (7.0)            |
| 176 | Greater than 95% but less than 101% of m/z 174 | 96.4 (95.9)          |
| 177 | 5 to 9% of m/z 176                             | 6.5 (6.8)            |

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76036.D\8260\_W8.rslt\spectra.d  
Injection Date: 09-Oct-2018 19:13:30  
Spectrum: Tune Spec :Average 69-71( 4.25-4.28 ) Bgrd 67( 4.23)  
Base Peak: 174.00  
Minimum % Base Peak: 0  
Number of Points: 48

| m/z   | Y    | m/z   | Y    | m/z   | Y     | m/z    | Y     |
|-------|------|-------|------|-------|-------|--------|-------|
| 36.00 | 174  | 57.00 | 482  | 77.00 | 83    | 96.00  | 1470  |
| 37.00 | 919  | 61.00 | 786  | 78.00 | 85    | 119.00 | 83    |
| 38.00 | 807  | 62.00 | 685  | 79.00 | 506   | 141.00 | 170   |
| 39.00 | 334  | 63.00 | 682  | 80.00 | 250   | 143.00 | 234   |
| 40.00 | 10   | 64.00 | 68   | 81.00 | 529   | 172.00 | 390   |
| 44.00 | 185  | 65.00 | 201  | 82.00 | 77    | 173.00 | 266   |
| 45.00 | 144  | 68.00 | 1672 | 87.00 | 1058  | 174.00 | 19832 |
| 47.00 | 215  | 69.00 | 1863 | 88.00 | 973   | 175.00 | 1397  |
| 49.00 | 660  | 73.00 | 685  | 92.00 | 484   | 176.00 | 19024 |
| 50.00 | 3461 | 74.00 | 2736 | 93.00 | 858   | 177.00 | 1287  |
| 51.00 | 1131 | 75.00 | 8998 | 94.00 | 2106  | 207.00 | 52    |
| 56.00 | 254  | 76.00 | 880  | 95.00 | 19744 | 269.00 | 75    |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76064.D  
Lims ID: BFB  
Client ID:  
Sample Type: BFB  
Inject. Date: 10-Oct-2018 07:26:30 ALS Bottle#: 99 Worklist Smp#: 1  
Injection Vol: 5.0 mL Dil. Factor: 1.0000  
Sample Info: BFB  
Misc. Info.: 460-0080037-001  
Operator ID: Instrument ID: CVOAMS8  
Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\8260\_W8.m  
Limit Group: VOA - 8260C Water and Solid  
Last Update: 10-Oct-2018 09:39:49 Calib Date: 20-Sep-2018 21:24:30  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
Process Host: CTX0321

First Level Reviewer: moroneyc

Date: 10-Oct-2018 07:35:45

| Compound | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

|            |    |       |       |       |    |       |    |    |   |
|------------|----|-------|-------|-------|----|-------|----|----|---|
| \$ 135 BFB | 95 | 4.276 | 4.276 | 0.000 | 93 | 40081 | NR | NR | a |
|------------|----|-------|-------|-------|----|-------|----|----|---|

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

**Reagents:**

BFB\_00017

Amount Added: 1.00

Units: uL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76064.D

Injection Date: 10-Oct-2018 07:26:30

Instrument ID: CVOAMS8

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#:

99

Worklist Smp#:

1

Injection Vol: 5.0 mL

Dil. Factor:

1.0000

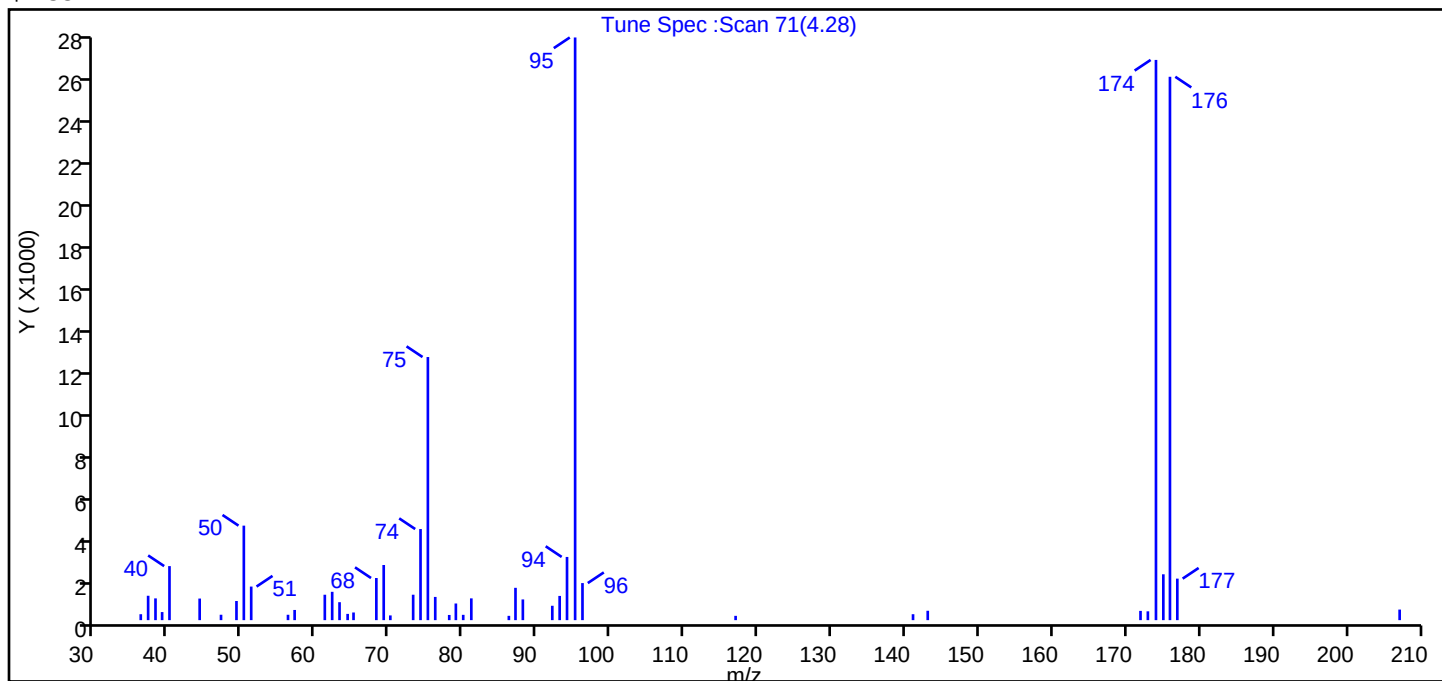
Method: 8260\_W8

Limit Group:

VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 135 BFB



| m/z | Ion Abundance Criteria                         | % Relative Abundance |
|-----|------------------------------------------------|----------------------|
| 95  | Base peak, 100% relative abundance             | 100.0                |
| 50  | 15 to 40% of m/z 95                            | 16.2                 |
| 75  | 30 to 60% of m/z 95                            | 45.2                 |
| 96  | 5 to 9% of m/z 95                              | 6.4                  |
| 173 | Less than 2% of m/z 174                        | 1.5 (1.6)            |
| 174 | 50 to 120% of m/z 95                           | 96.1                 |
| 175 | 5 to 9% of m/z 174                             | 7.9 (8.2)            |
| 176 | Greater than 95% but less than 101% of m/z 174 | 93.3 (97.0)          |
| 177 | 5 to 9% of m/z 176                             | 7.1 (7.6)            |

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76064.D\8260\_W8.rslt\spectra.d  
Injection Date: 10-Oct-2018 07:26:30  
Spectrum: Tune Spec :Scan 71(4.28)  
Base Peak: 95.10  
Minimum % Base Peak: 0  
Number of Points: 46

| m/z   | Y    | m/z   | Y     | m/z   | Y     | m/z    | Y     |
|-------|------|-------|-------|-------|-------|--------|-------|
| 36.10 | 279  | 61.10 | 1195  | 78.00 | 244   | 116.90 | 202   |
| 37.10 | 1147 | 62.10 | 1332  | 78.90 | 783   | 141.00 | 279   |
| 38.10 | 1023 | 63.10 | 844   | 79.90 | 250   | 143.00 | 441   |
| 39.00 | 380  | 64.20 | 294   | 81.00 | 1024  | 171.90 | 435   |
| 40.00 | 2541 | 65.00 | 360   | 86.10 | 202   | 172.90 | 415   |
| 44.10 | 1015 | 68.10 | 1981  | 87.00 | 1520  | 174.00 | 26344 |
| 47.00 | 254  | 69.10 | 2593  | 88.00 | 974   | 175.00 | 2156  |
| 49.10 | 900  | 70.00 | 222   | 92.00 | 676   | 175.90 | 25552 |
| 50.10 | 4444 | 73.10 | 1196  | 93.00 | 1139  | 176.90 | 1952  |
| 51.10 | 1579 | 74.10 | 4284  | 94.00 | 2972  | 207.10 | 497   |
| 56.10 | 253  | 75.10 | 12373 | 95.10 | 27400 |        |       |
| 57.00 | 479  | 76.10 | 1092  | 96.10 | 1743  |        |       |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\J76087.D  
Lims ID: BFB  
Client ID:  
Sample Type: BFB  
Inject. Date: 10-Oct-2018 18:29:30 ALS Bottle#: 99 Worklist Smp#: 1  
Injection Vol: 5.0 mL Dil. Factor: 1.0000  
Sample Info: BFB  
Misc. Info.: 460-0080066-001  
Operator ID: Instrument ID: CVOAMS8  
Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\8260\_W8.m  
Limit Group: VOA - 8260C Water and Solid  
Last Update: 11-Oct-2018 05:44:29 Calib Date: 20-Sep-2018 21:24:30  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
Process Host: CTX0317

First Level Reviewer: parekhv

Date: 10-Oct-2018 18:44:36

| Compound | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

|            |    |       |       |       |    |       |    |    |   |
|------------|----|-------|-------|-------|----|-------|----|----|---|
| \$ 135 BFB | 95 | 4.279 | 4.279 | 0.000 | 95 | 44502 | NR | NR | a |
|------------|----|-------|-------|-------|----|-------|----|----|---|

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

**Reagents:**

BFB\_00017

Amount Added: 1.00

Units: uL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\J76087.D

Injection Date: 10-Oct-2018 18:29:30

Instrument ID: CVOAMS8

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 99 Worklist Smp#: 1

Injection Vol: 5.0 mL

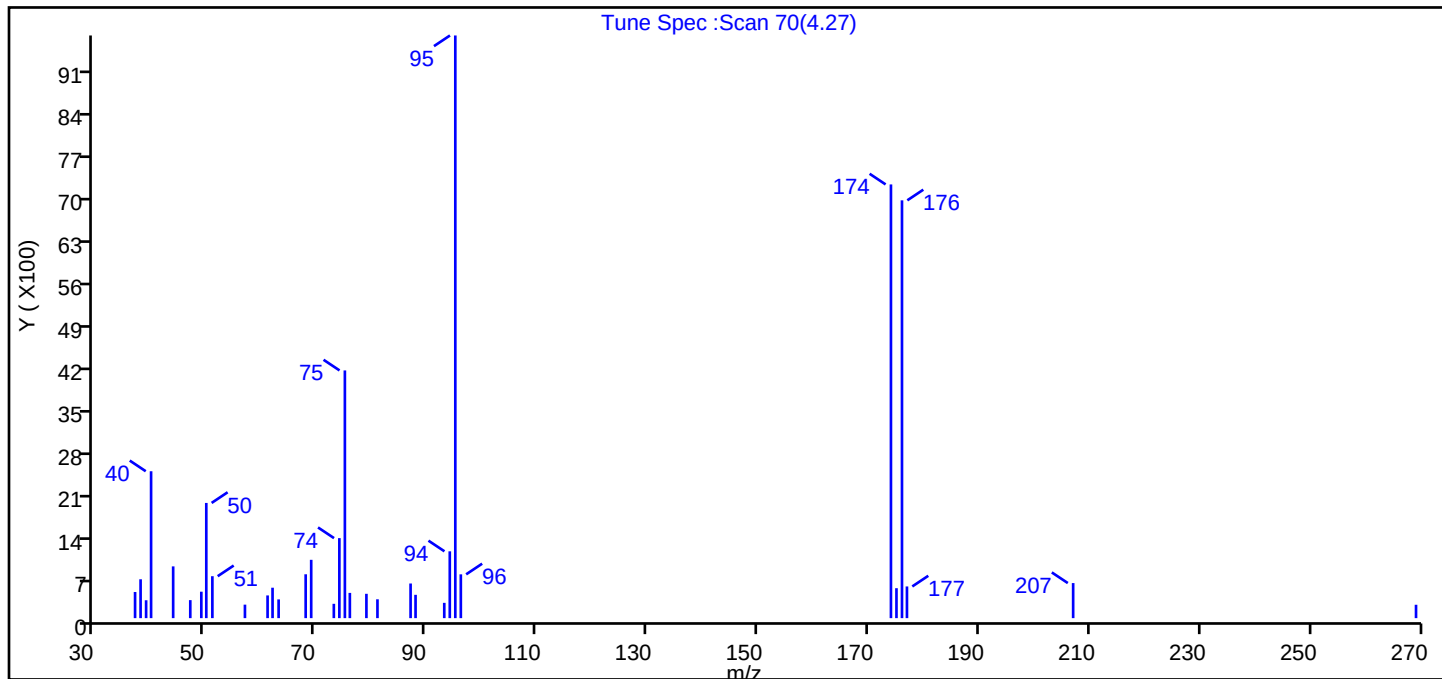
Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 135 BFB



| m/z | Ion Abundance Criteria                         | % Relative Abundance |
|-----|------------------------------------------------|----------------------|
| 95  | Base peak, 100% relative abundance             | 100.0                |
| 50  | 15 to 40% of m/z 95                            | 19.8                 |
| 75  | 30 to 60% of m/z 95                            | 42.5                 |
| 96  | 5 to 9% of m/z 95                              | 7.5                  |
| 173 | Less than 2% of m/z 174                        | 0.0 (0.0)            |
| 174 | 50 to 120% of m/z 95                           | 74.4                 |
| 175 | 5 to 9% of m/z 174                             | 5.1 (6.9)            |
| 176 | Greater than 95% but less than 101% of m/z 174 | 71.7 (96.3)          |
| 177 | 5 to 9% of m/z 176                             | 5.4 (7.6)            |

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\J76087.D\8260\_W8.rslt\spectra.d  
Injection Date: 10-Oct-2018 18:29:30  
Spectrum: Tune Spec :Scan 70(4.27)  
Base Peak: 95.10  
Minimum % Base Peak: 0  
Number of Points: 33

| m/z   | Y    | m/z   | Y    | m/z   | Y    | m/z    | Y    |
|-------|------|-------|------|-------|------|--------|------|
| 37.10 | 434  | 57.00 | 224  | 76.00 | 419  | 174.00 | 7198 |
| 38.10 | 645  | 61.10 | 377  | 79.00 | 404  | 175.00 | 497  |
| 39.10 | 297  | 62.00 | 505  | 81.00 | 313  | 176.00 | 6934 |
| 40.00 | 2438 | 63.10 | 311  | 87.00 | 575  | 176.90 | 526  |
| 44.00 | 859  | 68.00 | 728  | 87.90 | 387  | 207.00 | 582  |
| 47.10 | 299  | 69.00 | 968  | 93.10 | 254  | 269.10 | 222  |
| 49.10 | 439  | 73.10 | 238  | 94.10 | 1109 |        |      |
| 50.00 | 1912 | 74.10 | 1328 | 95.10 | 9670 |        |      |
| 51.10 | 696  | 75.10 | 4111 | 96.10 | 727  |        |      |



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76114.D  
Lims ID: BFB  
Client ID:  
Sample Type: BFB  
Inject. Date: 11-Oct-2018 07:13:30 ALS Bottle#: 99 Worklist Smp#: 1  
Injection Vol: 5.0 mL Dil. Factor: 1.0000  
Sample Info: BFB  
Misc. Info.: 460-0080093-001  
Operator ID: Instrument ID: CVOAMS8  
Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\8260\_W8.m  
Limit Group: VOA - 8260C Water and Solid  
Last Update: 11-Oct-2018 09:21:05 Calib Date: 20-Sep-2018 21:24:30  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Internal Standard Quant By: Initial Calibration  
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
Process Host: CTX0317

First Level Reviewer: moroneyc

Date: 11-Oct-2018 07:25:54

| Compound | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|

|            |    |       |       |       |    |       |    |    |  |
|------------|----|-------|-------|-------|----|-------|----|----|--|
| \$ 135 BFB | 95 | 4.298 | 4.298 | 0.000 | 93 | 38182 | NR | NR |  |
|------------|----|-------|-------|-------|----|-------|----|----|--|

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

BFB\_00017

Amount Added: 1.00

Units: uL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76114.D

Injection Date: 11-Oct-2018 07:13:30

Instrument ID: CVOAMS8

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 99 Worklist Smp#: 1

Injection Vol: 5.0 mL

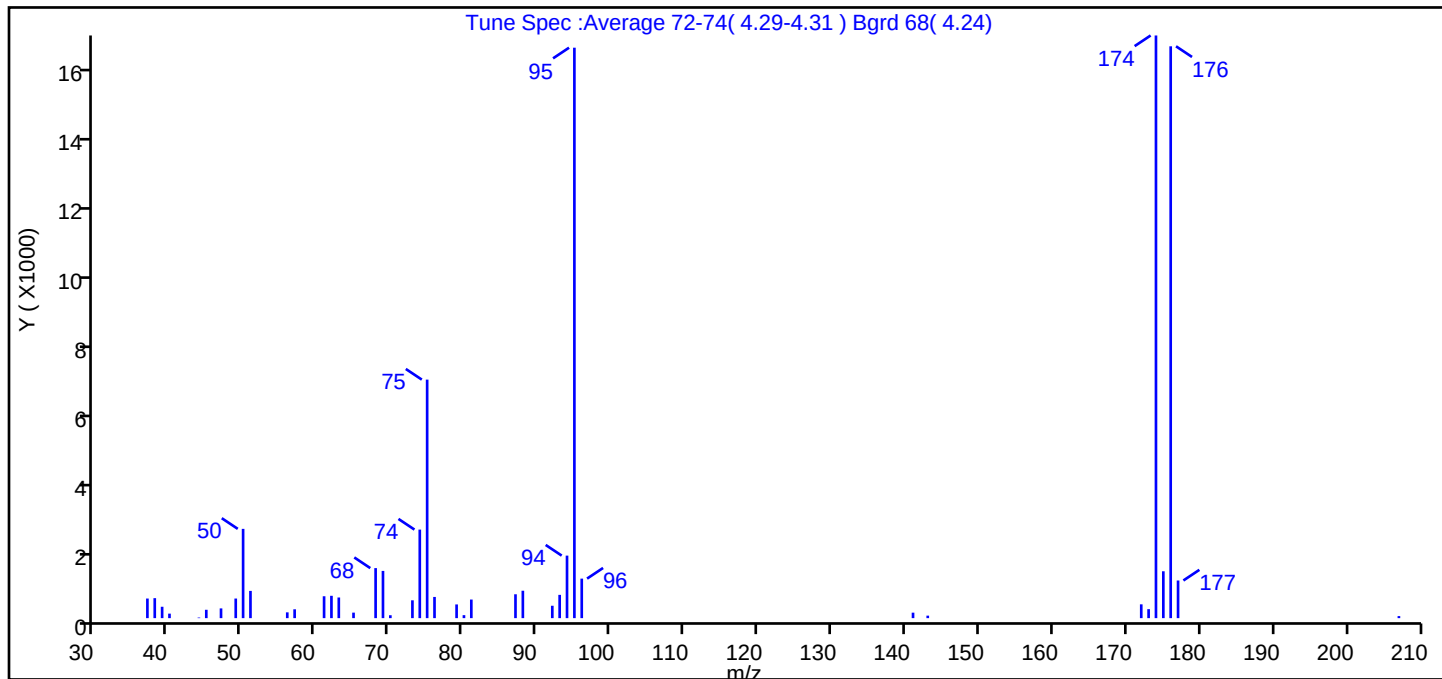
Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 135 BFB



| m/z | Ion Abundance Criteria                         | % Relative Abundance |
|-----|------------------------------------------------|----------------------|
| 95  | Base peak, 100% relative abundance             | 100.0                |
| 50  | 15 to 40% of m/z 95                            | 15.7                 |
| 75  | 30 to 60% of m/z 95                            | 41.8                 |
| 96  | 5 to 9% of m/z 95                              | 6.9                  |
| 173 | Less than 2% of m/z 174                        | 1.6 (1.5)            |
| 174 | 50 to 120% of m/z 95                           | 102.1                |
| 175 | 5 to 9% of m/z 174                             | 8.2 (8.0)            |
| 176 | Greater than 95% but less than 101% of m/z 174 | 100.2 (98.1)         |
| 177 | 5 to 9% of m/z 176                             | 6.6 (6.6)            |

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76114.D\8260\_W8.rslt\spectra.d  
Injection Date: 11-Oct-2018 07:13:30  
Spectrum: Tune Spec :Average 72-74( 4.29-4.31 ) Bgrd 68( 4.24)  
Base Peak: 174.00  
Minimum % Base Peak: 0  
Number of Points: 42

| m/z   | Y    | m/z   | Y    | m/z   | Y     | m/z    | Y     |
|-------|------|-------|------|-------|-------|--------|-------|
| 37.00 | 565  | 57.00 | 255  | 76.00 | 611   | 141.00 | 158   |
| 38.00 | 576  | 61.00 | 631  | 79.00 | 395   | 143.00 | 72    |
| 39.00 | 328  | 62.00 | 644  | 80.00 | 86    | 172.00 | 398   |
| 40.00 | 130  | 63.00 | 595  | 81.00 | 536   | 173.00 | 259   |
| 44.00 | 17   | 65.00 | 159  | 87.00 | 688   | 174.00 | 16792 |
| 45.00 | 241  | 68.00 | 1442 | 88.00 | 790   | 175.00 | 1351  |
| 47.00 | 281  | 69.00 | 1361 | 92.00 | 357   | 176.00 | 16480 |
| 49.00 | 565  | 70.00 | 84   | 93.00 | 671   | 177.00 | 1085  |
| 50.00 | 2573 | 73.00 | 514  | 94.00 | 1802  | 207.00 | 59    |
| 51.00 | 785  | 74.00 | 2552 | 95.00 | 16440 |        |       |
| 56.00 | 167  | 75.00 | 6874 | 96.00 | 1139  |        |       |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-558837/7

Matrix: Water Lab File ID: J76042.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2018 22:00

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.25   | U | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-558837/7  
Matrix: Water Lab File ID: J76042.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2018 22:00  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 91   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 96   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 106  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 91   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76042.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 09-Oct-2018 22:00:30 ALS Bottle#: 6 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 460-0080013-007  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 07:53:10 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: moroneyc

Date: 10-Oct-2018 07:47:54

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.723        | 2.732            | -0.009           | 0  | 184574   | 1000.0          | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.727        | 3.725            | 0.002            | 0  | 244463   | 250.0           | 250.0             |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.173        | 4.171            | 0.002            | 97 | 117555   | 50.0            | 53.2              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.504        | 4.513            | -0.009           | 0  | 109281   | 50.0            | 45.3              |       |
| * 62 Fluorobenzene               | 96  | 4.766        | 4.764            | 0.002            | 99 | 410253   | 50.0            | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.474        | 5.472            | 0.002            | 0  | 19642    | 1000.0          | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.399        | 6.397            | 0.002            | 99 | 343019   | 50.0            | 45.7              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.180        | 8.178            | 0.002            | 83 | 314440   | 50.0            | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.653        | 9.651            | 0.002            | 97 | 114246   | 50.0            | 48.2              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.623       | 10.621           | 0.002            | 92 | 173608   | 50.0            | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76042.D

Injection Date: 09-Oct-2018 22:00:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

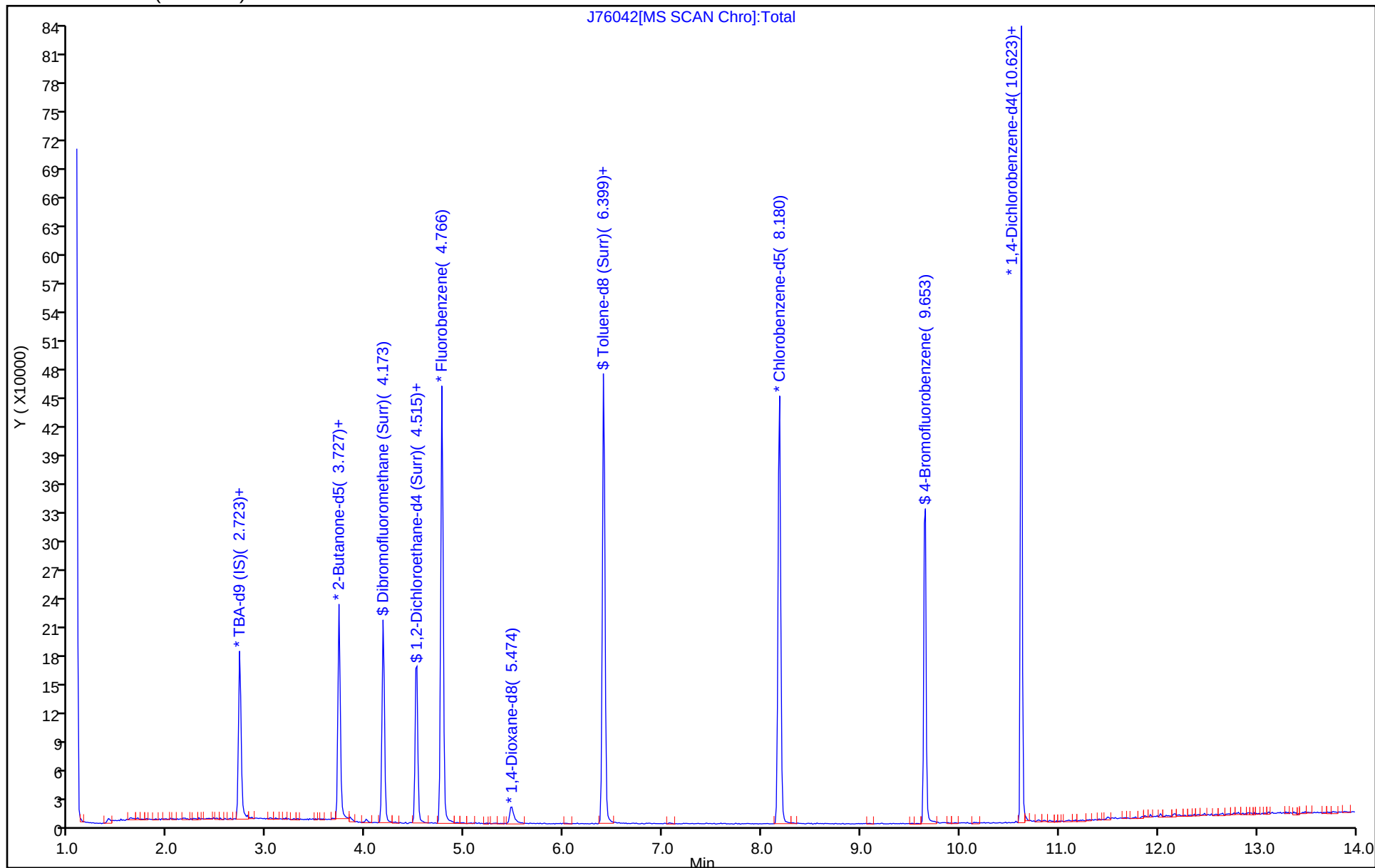
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-558952/10

Matrix: Water Lab File ID: J76073.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 11:25

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 558952 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.324  | J | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-558952/10  
Matrix: Water Lab File ID: J76073.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 11:25  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558952 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 94   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 101  |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 107  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76073.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 10-Oct-2018 11:25:30 ALS Bottle#: 9 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 460-0080037-010  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 09:59:31 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK024

First Level Reviewer: maheseep

Date: 11-Oct-2018 09:59:31

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|----|----------|-----------------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.732        | 2.732            | 0.000            | 0  | 186920   | 1000.0          | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.736        | 3.725            | 0.011            | 0  | 237886   | 250.0           | 250.0             |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.182        | 4.182            | 0.000            | 97 | 114697   | 50.0            | 53.6              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513        | 4.513            | 0.000            | 0  | 109560   | 50.0            | 46.9              |       |
| * 62 Fluorobenzene               | 96  | 4.775        | 4.776            | -0.001           | 99 | 397328   | 50.0            | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472        | 5.472            | 0.000            | 0  | 19787    | 1000.0          | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.408        | 6.408            | 0.000            | 99 | 333133   | 50.0            | 46.8              |       |
| 84 Tetrachloroethene             | 166 | 7.082        | 7.082            | 0.000            | 85 | 740      |                 | 0.3245            |       |
| * 90 Chlorobenzene-d5            | 117 | 8.178        | 8.178            | 0.000            | 83 | 298435   | 50.0            | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.650        | 9.651            | -0.001           | 98 | 113367   | 50.0            | 50.4              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.621       | 10.621           | 0.000            | 94 | 173325   | 50.0            | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80037.b\\J76073.D

Injection Date: 10-Oct-2018 11:25:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: MB

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

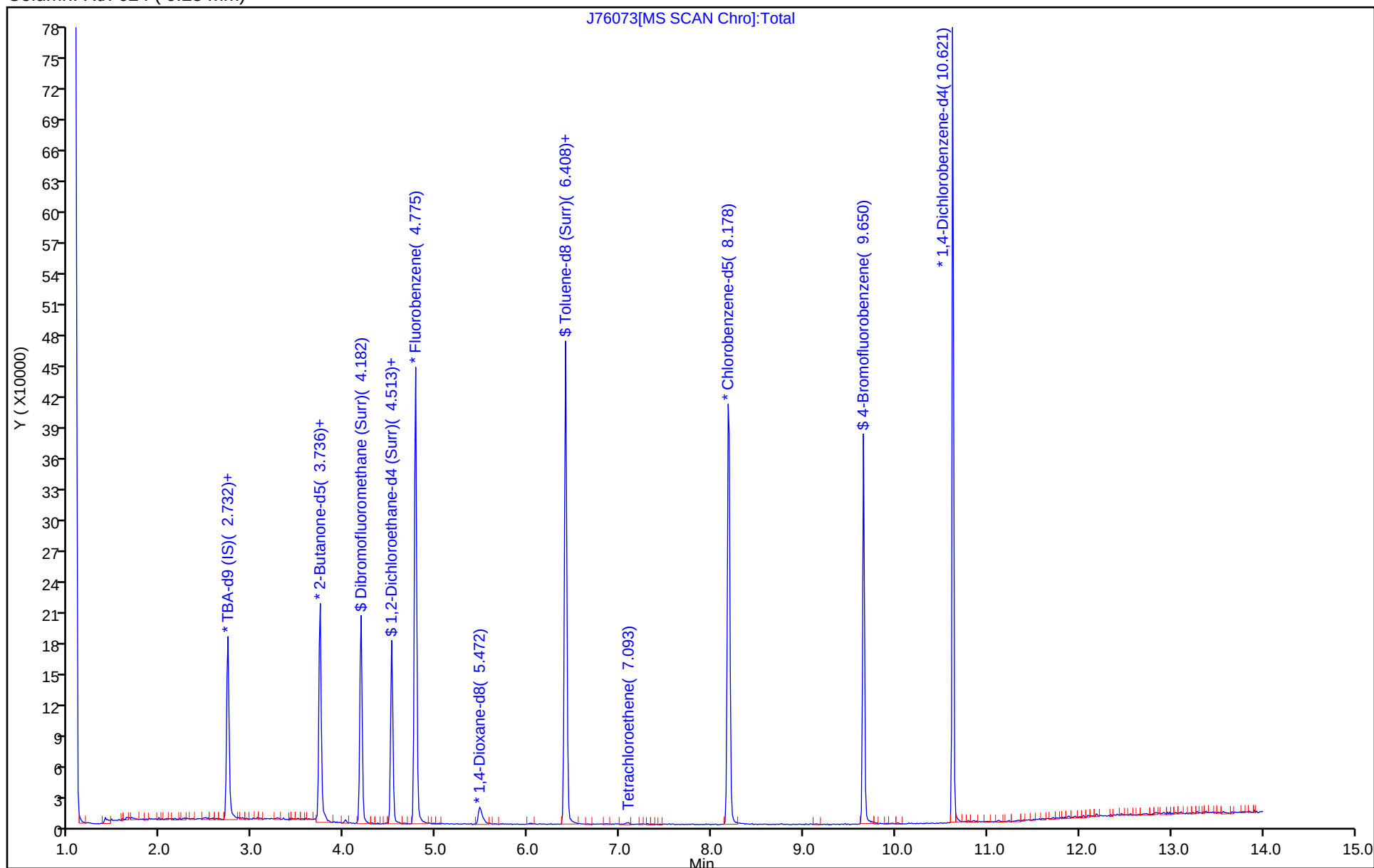
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80037.b\\J76073.D

Injection Date: 10-Oct-2018 11:25:30

Instrument ID: CVOAMS8

Lims ID: MB

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 10

Purge Vol: 5.000 mL

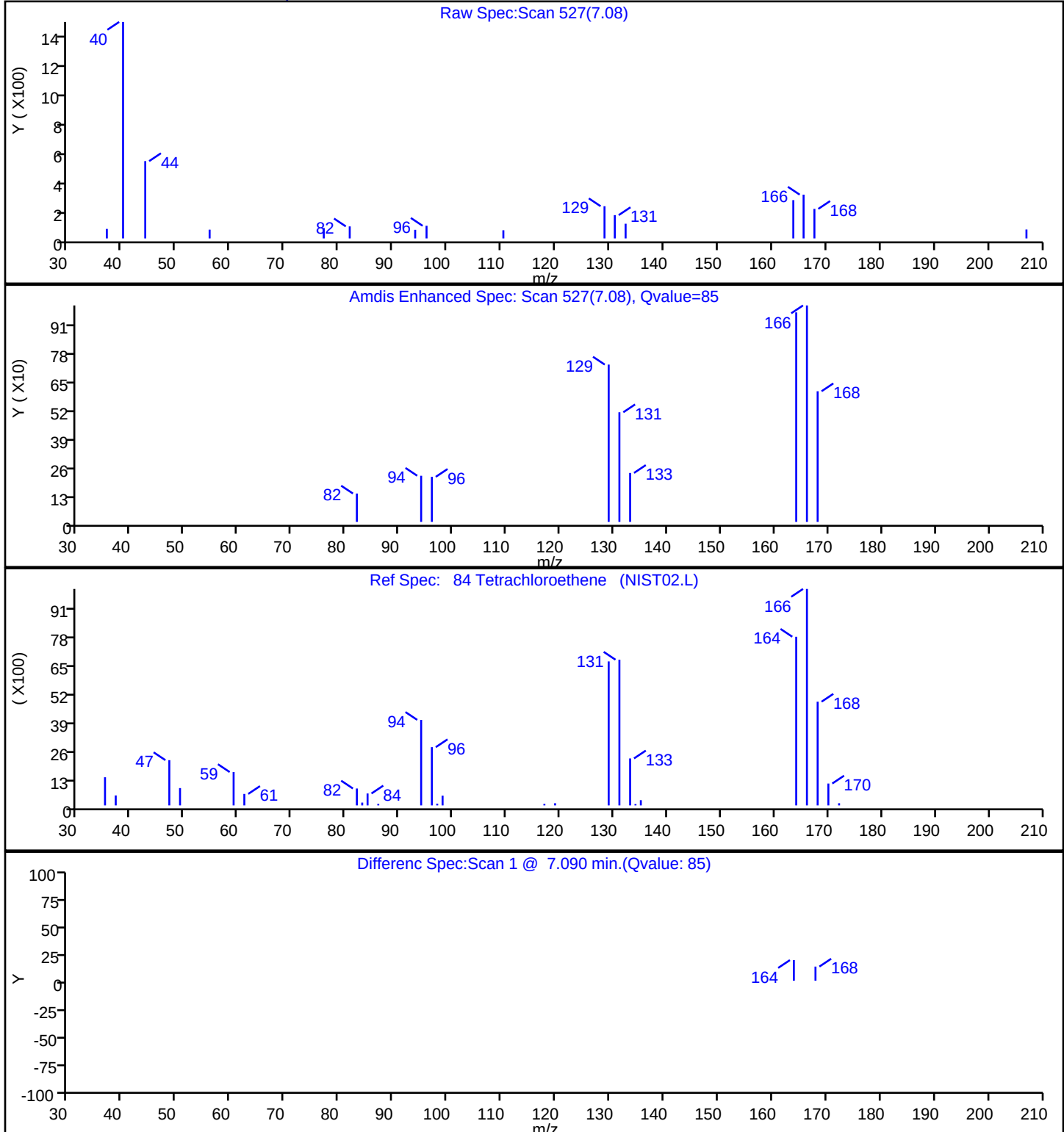
Dil. Factor: 1.0000

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

Detector: MS SCAN

**84 Tetrachloroethene, CAS: 127-18-4**

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-559112/8

Matrix: Water Lab File ID: J76071.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 21:57

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 559112 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.25   | U | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-559112/8  
Matrix: Water Lab File ID: J76071.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 21:57  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 559112 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 96   |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 104  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\J76071.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 10-Oct-2018 21:57:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 460-0080066-008  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 08:26:43 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0317

First Level Reviewer: parekhv

Date: 10-Oct-2018 22:28:40

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.731        | 2.735            | -0.004           | 0   | 189214   | 1000.0          | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.736        | 3.739            | -0.003           | 0   | 236405   | 250.0           | 250.0             |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.181        | 4.185            | -0.004           | 97  | 112632   | 50.0            | 51.9              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.524        | 4.516            | 0.008            | 0   | 105637   | 50.0            | 44.5              |       |
| * 62 Fluorobenzene               | 96  | 4.786        | 4.778            | 0.008            | 100 | 403447   | 50.0            | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.483        | 5.486            | -0.003           | 0   | 19114    | 1000.0          | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.419        | 6.411            | 0.008            | 99  | 333130   | 50.0            | 46.4              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.189        | 8.192            | -0.003           | 84  | 301395   | 50.0            | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.661        | 9.653            | 0.008            | 97  | 109544   | 50.0            | 48.2              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.632       | 10.624           | 0.008            | 92  | 176164   | 50.0            | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80066.b\\J76071.D

Injection Date: 10-Oct-2018 21:57:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

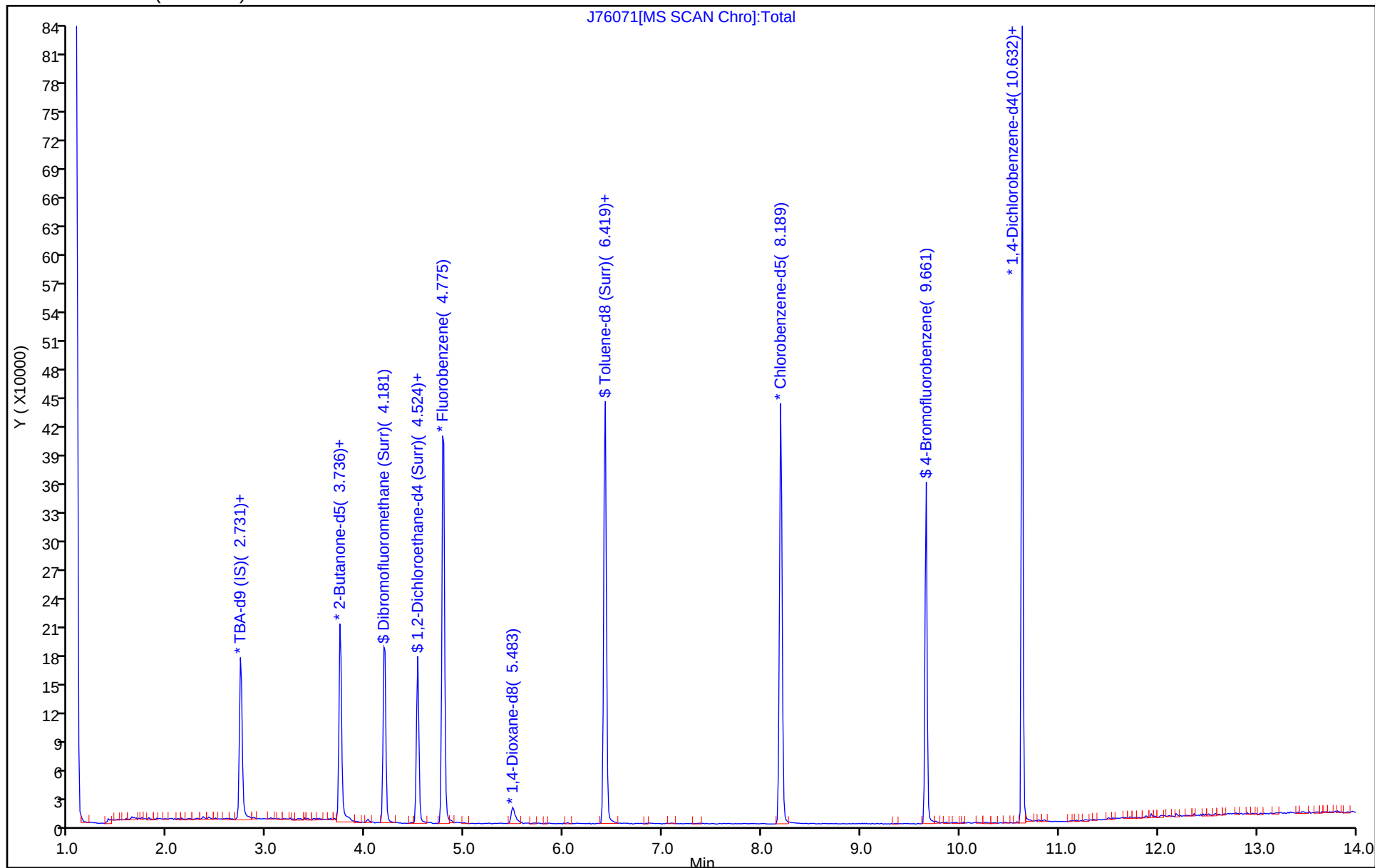
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)





FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-559235/8

Matrix: Water Lab File ID: J76121.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5(mL) Date Analyzed: 10/11/2018 10:22

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 559235 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 0.24   | U | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 0.37   | U | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 0.43   | U | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 0.26   | U | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 0.12   | U | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 0.43   | U | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 0.35   | U | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 1.9    | U | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 2.9    | U | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 2.7    | U | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 5.0    | U | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 0.43   | U | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 0.54   | U | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 1.0    | U | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 0.16   | U | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 0.21   | U | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 0.38   | U | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 0.41   | U | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 0.32   | U | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 0.33   | U | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 0.14   | U | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.22   | U | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 0.46   | U | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 0.30   | U | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 0.32   | U | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 0.42   | U | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 0.25   | U | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 0.38   | U | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 0.24   | U | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 0.49   | U | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 0.31   | U | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 0.17   | U | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 0.65   | U | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-559235/8  
Matrix: Water Lab File ID: J76121.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/11/2018 10:22  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 559235 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 100  |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 108  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 92   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76121.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 11-Oct-2018 10:22:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 460-0080093-008  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 10:40:34 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0317

First Level Reviewer: moroneyc

Date: 11-Oct-2018 10:40:34

| Compound                         | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|----------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| * 27 TBA-d9 (IS)                 | 65  | 2.735        | 2.744            | -0.009           | 0   | 185680   | 1000.0          | 1000.0            |       |
| * 39 2-Butanone-d5               | 46  | 3.751        | 3.749            | 0.002            | 0   | 240389   | 250.0           | 250.0             |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.197        | 4.194            | 0.003            | 98  | 115050   | 50.0            | 54.0              |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.528        | 4.525            | 0.003            | 0   | 107157   | 50.0            | 46.0              |       |
| * 62 Fluorobenzene               | 96  | 4.790        | 4.787            | 0.003            | 99  | 396175   | 50.0            | 50.0              |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.487        | 5.484            | 0.003            | 0   | 18105    | 1000.0          | 1000.0            |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.423        | 6.420            | 0.003            | 100 | 326531   | 50.0            | 46.1              |       |
| * 90 Chlorobenzene-d5            | 117 | 8.204        | 8.201            | 0.003            | 83  | 296824   | 50.0            | 50.0              |       |
| \$ 101 4-Bromofluorobenzene      | 174 | 9.665        | 9.662            | 0.003            | 97  | 111350   | 50.0            | 49.8              |       |
| * 117 1,4-Dichlorobenzene-d4     | 152 | 10.636       | 10.633           | 0.003            | 93  | 174206   | 50.0            | 50.0              |       |

**Reagents:**

|                   |                    |           |             |
|-------------------|--------------------|-----------|-------------|
| 8260ISNEW_00119   | Amount Added: 1.00 | Units: uL | Run Reagent |
| 8260SURR250_00183 | Amount Added: 1.00 | Units: uL | Run Reagent |

Report Date: 11-Oct-2018 10:40:40

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76121.D

Injection Date: 11-Oct-2018 10:22:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

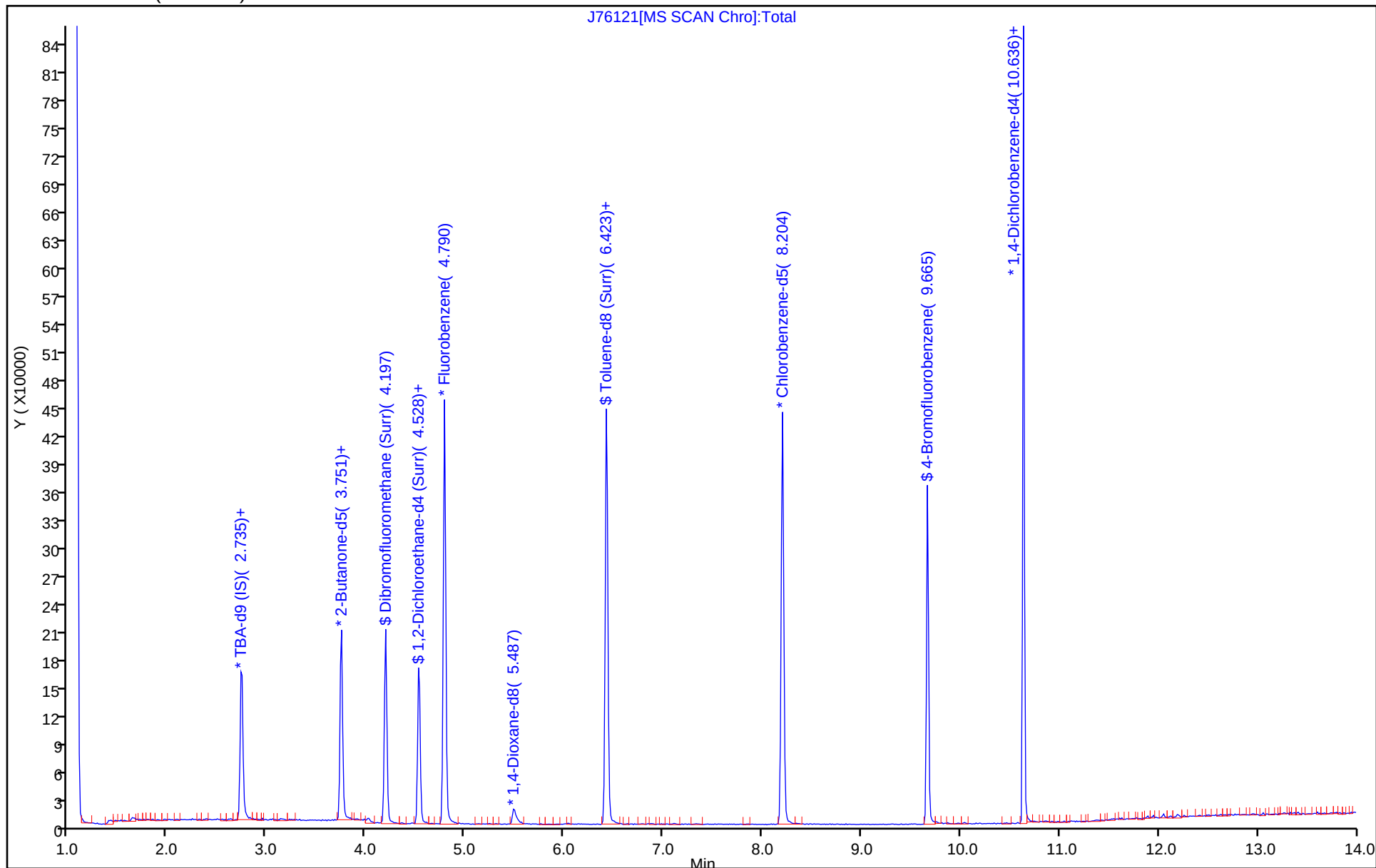
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-558837/3

Matrix: Water Lab File ID: J76038.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2018 20:13

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 20.4   |   | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 17.3   |   | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 19.0   |   | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 18.2   |   | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 19.6   |   | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 18.6   |   | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 18.5   |   | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 109    |   | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 106    |   | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 101    |   | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 107    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 20.1   |   | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 22.5   |   | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 12.0   |   | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 18.7   |   | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 21.1   |   | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 21.0   |   | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 21.7   |   | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 20.1   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 20.6   |   | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 17.0   |   | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 20.0   |   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 18.7   |   | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 20.0   |   | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 20.0   |   | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 20.5   |   | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 23.4   |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 20.1   |   | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 20.5   |   | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 17.3   |   | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 19.7   |   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 18.1   |   | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 37.3   |   | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-558837/3  
Matrix: Water Lab File ID: J76038.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2018 20:13  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 86   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 108  |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76038.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 09-Oct-2018 20:13:30 ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS  
 Misc. Info.: 460-0080013-003  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:38:35 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0309

First Level Reviewer: xuyvo

Date: 10-Oct-2018 16:39:09

| Compound                      | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|-------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.191        | 1.191            | 0.000            | 90  | 4527     | 20.0            | 10.2              |       |
| 2 Dichlorodifluoromethane     | 85  | 1.214        | 1.214            | 0.000            | 98  | 55771    | 20.0            | 16.6              |       |
| 3 Chloromethane               | 50  | 1.396        | 1.396            | 0.000            | 99  | 67218    | 20.0            | 17.0              |       |
| 4 Vinyl chloride              | 62  | 1.442        | 1.442            | 0.000            | 98  | 66453    | 20.0            | 18.1              |       |
| 5 Butadiene                   | 54  | 1.453        | 1.465            | -0.012           | 97  | 45668    | 20.0            | 14.7              |       |
| 6 Bromomethane                | 94  | 1.682        | 1.682            | 0.000            | 99  | 21649    | 20.0            | 12.0              |       |
| 7 Chloroethane                | 64  | 1.762        | 1.762            | 0.000            | 99  | 36325    | 20.0            | 20.1              |       |
| 9 Trichlorofluoromethane      | 101 | 1.910        | 1.910            | 0.000            | 100 | 81705    | 20.0            | 22.5              |       |
| 8 Dichlorofluoromethane       | 67  | 1.921        | 1.921            | 0.000            | 99  | 114257   | 20.0            | 22.6              |       |
| 10 Pentane                    | 72  | 1.956        | 1.956            | 0.000            | 95  | 8902     | 40.0            | 32.8              |       |
| 11 Ethanol                    | 46  | 2.104        | 2.116            | -0.012           | 96  | 10762    | 800.0           | 796.8             |       |
| 12 Ethyl ether                | 59  | 2.127        | 2.138            | -0.011           | 93  | 34852    | 20.0            | 16.9              |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.138        | 2.150            | -0.012           | 96  | 33178    | 20.0            | 14.7              |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.173        | 2.173            | 0.000            | 93  | 41971    | 20.0            | 20.7              |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.275        | 2.275            | 0.000            | 95  | 42717    | 20.0            | 18.6              |       |
| 16 Acrolein                   | 56  | 2.287        | 2.287            | 0.000            | 94  | 16533    | 40.0            | 40.8              |       |
| 17 1,1-Dichloroethene         | 96  | 2.310        | 2.310            | 0.000            | 96  | 44033    | 20.0            | 19.6              |       |
| 18 Acetone                    | 43  | 2.401        | 2.401            | 0.000            | 87  | 67283    | 100.0           | 107.1             |       |
| 19 Iodomethane                | 142 | 2.447        | 2.447            | 0.000            | 97  | 16976    | 20.0            | 4.71              |       |
| 20 Carbon disulfide           | 76  | 2.469        | 2.469            | 0.000            | 98  | 167962   | 20.0            | 18.7              |       |
| 21 Isopropyl alcohol          | 45  | 2.492        | 2.492            | 0.000            | 98  | 28697    | 200.0           | 187.2             |       |
| 22 3-Chloro-1-propene         | 76  | 2.595        | 2.595            | 0.000            | 93  | 28922    | 20.0            | 19.3              |       |
| 23 Cyclopentene               | 67  | 2.618        | 2.618            | 0.000            | 94  | 98401    | 20.0            | 15.9              |       |
| 24 Methyl acetate             | 43  | 2.618        | 2.618            | 0.000            | 100 | 73235    | 40.0            | 30.6              |       |
| 25 Acetonitrile               | 41  | 2.675        | 2.675            | 0.000            | 99  | 62862    | 200.0           | 184.1             |       |
| 26 Methylene Chloride         | 84  | 2.721        | 2.721            | 0.000            | 89  | 56658    | 20.0            | 20.0              |       |
| * 27 TBA-d9 (IS)              | 65  | 2.732        | 2.732            | 0.000            | 0   | 188548   | 1000.0          | 1000.0            |       |
| 28 2-Methyl-2-propanol        | 59  | 2.789        | 2.789            | 0.000            | 99  | 44714    | 200.0           | 201.1             |       |
| 29 Methyl tert-butyl ether    | 73  | 2.869        | 2.869            | 0.000            | 97  | 123103   | 20.0            | 18.3              |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.892        | 2.892            | 0.000            | 93  | 53027    | 20.0            | 20.5              |       |
| 31 Acrylonitrile              | 53  | 2.972        | 2.972            | 0.000            | 94  | 190546   | 200.0           | 200.8             |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 32 Hexane                        | 57  | 3.029     | 3.029         | 0.000         | 92  | 41245    | 20.0         | 15.2           |       |
| 33 Isopropyl ether               | 45  | 3.234     | 3.234         | 0.000         | 99  | 138931   | 20.0         | 15.4           |       |
| 34 1,1-Dichloroethane            | 63  | 3.257     | 3.257         | 0.000         | 99  | 90387    | 20.0         | 18.2           |       |
| 35 Vinyl acetate                 | 43  | 3.280     | 3.280         | 0.000         | 100 | 196669   | 40.0         | 36.4           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.303     | 3.303         | 0.000         | 88  | 44747    | 20.0         | 19.3           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.531     | 3.531         | 0.000         | 89  | 126686   | 20.0         | 16.7           |       |
| 38 2,2-Dichloropropane           | 79  | 3.714     | 3.714         | 0.000         | 90  | 24428    | 20.0         | 20.6           |       |
| * 39 2-Butanone-d5               | 46  | 3.725     | 3.725         | 0.000         | 0   | 242231   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.748     | 3.748         | 0.000         | 99  | 59349    | 20.0         | 20.0           |       |
| 41 2-Butanone (MEK)              | 72  | 3.782     | 3.782         | 0.000         | 96  | 27297    | 100.0        | 109.0          |       |
| 42 Ethyl acetate                 | 70  | 3.782     | 3.782         | 0.000         | 95  | 11224    | 40.0         | 45.9           |       |
| 43 Methyl acrylate               | 55  | 3.828     | 3.828         | 0.000         | 99  | 40296    | 20.0         | 14.6           |       |
| 44 Propionitrile                 | 54  | 3.908     | 3.908         | 0.000         | 98  | 73385    | 200.0        | 195.8          |       |
| 46 Chlorobromomethane            | 128 | 3.965     | 3.965         | 0.000         | 88  | 31531    | 20.0         | 21.7           |       |
| 45 Tetrahydrofuran               | 72  | 3.976     | 3.976         | 0.000         | 95  | 10763    | 40.0         | 42.1           |       |
| 47 Methacrylonitrile             | 67  | 3.999     | 3.999         | 0.000         | 91  | 218316   | 200.0        | 185.3          |       |
| 48 Chloroform                    | 83  | 4.022     | 4.022         | 0.000         | 99  | 93789    | 20.0         | 20.6           |       |
| 49 Cyclohexane                   | 84  | 4.125     | 4.125         | 0.000         | 92  | 53876    | 20.0         | 18.0           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.148     | 4.148         | 0.000         | 98  | 74022    | 20.0         | 20.4           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.171     | 4.171         | 0.000         | 97  | 117484   | 50.0         | 49.8           |       |
| 52 Carbon tetrachloride          | 117 | 4.262     | 4.262         | 0.000         | 98  | 67180    | 20.0         | 21.1           |       |
| 53 1,1-Dichloropropene           | 75  | 4.296     | 4.296         | 0.000         | 97  | 57661    | 20.0         | 17.7           |       |
| 54 Isooctane                     | 57  | 4.445     | 4.445         | 0.000         | 96  | 74290    | 20.0         | 16.7           |       |
| 58 Isobutyl alcohol              | 43  | 4.456     | 4.456         | 0.000         | 93  | 59183    | 500.0        | 498.5          |       |
| 55 Benzene                       | 78  | 4.479     | 4.479         | 0.000         | 96  | 208961   | 20.0         | 20.1           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513     | 4.513         | 0.000         | 0   | 110430   | 50.0         | 42.8           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.559     | 4.559         | 0.000         | 83  | 36678    | 20.0         | 17.9           |       |
| 59 Isopropyl acetate             | 43  | 4.559     | 4.559         | 0.000         | 94  | 115417   | 20.0         | 15.3           |       |
| 60 1,2-Dichloroethane            | 62  | 4.582     | 4.582         | 0.000         | 97  | 64884    | 20.0         | 18.6           |       |
| 61 n-Heptane                     | 57  | 4.627     | 4.627         | 0.000         | 92  | 16996    | 20.0         | 16.5           |       |
| * 62 Fluorobenzene               | 96  | 4.764     | 4.764         | 0.000         | 99  | 438426   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.107     | 5.107         | 0.000         | 47  | 24768    | 500.0        | 465.3          |       |
| 64 Trichloroethene               | 95  | 5.107     | 5.107         | 0.000         | 96  | 50712    | 20.0         | 19.7           |       |
| 65 Methylcyclohexane             | 83  | 5.221     | 5.221         | 0.000         | 92  | 50936    | 20.0         | 16.7           |       |
| 66 Ethyl acrylate                | 55  | 5.301     | 5.244         | 0.057         | 44  | 31617    | 20.0         | 7.69           |       |
| 67 1,2-Dichloropropane           | 63  | 5.392     | 5.392         | 0.000         | 91  | 52104    | 20.0         | 18.5           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472     | 5.472         | 0.000         | 0   | 25060    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.484     | 5.483         | 0.001         | 87  | 23385    | 40.0         | 36.9           |       |
| 70 1,4-Dioxane                   | 88  | 5.518     | 5.518         | 0.000         | 45  | 12949    | 400.0        | 415.0          |       |
| 71 Dibromomethane                | 93  | 5.529     | 5.529         | 0.000         | 93  | 37414    | 20.0         | 20.0           |       |
| 72 n-Propyl acetate              | 43  | 5.541     | 5.541         | 0.000         | 98  | 63905    | 20.0         | 14.9           |       |
| 73 Dichlorobromomethane          | 83  | 5.678     | 5.678         | 0.000         | 99  | 70971    | 20.0         | 19.6           |       |
| 74 2-Nitropropane                | 41  | 6.009     | 6.009         | 0.000         | 85  | 21950    | 40.0         | 36.8           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.020     | 6.020         | 0.000         | 72  | 23857    | 20.0         | 12.5           |       |
| 76 Epichlorohydrin               | 57  | 6.123     | 6.123         | 0.000         | 99  | 181415   | 400.0        | 908.9          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.169     | 6.168         | 0.000         | 91  | 77341    | 20.0         | 18.7           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.340     | 6.340         | 0.000         | 96  | 207697   | 100.0        | 101.5          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.397     | 6.397         | 0.000         | 99  | 398466   | 50.0         | 47.9           |       |
| 80 Toluene                       | 91  | 6.477     | 6.477         | 0.000         | 94  | 212464   | 20.0         | 20.1           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.842     | 6.842         | 0.000         | 96  | 65337    | 20.0         | 17.3           |       |
| 82 Ethyl methacrylate            | 69  | 6.876     | 6.876         | 0.000         | 90  | 47022    | 20.0         | 13.1           |       |
| 83 1,1,2-Trichloroethane         | 83  | 7.048     | 7.048         | 0.000         | 97  | 44245    | 20.0         | 19.0           |       |



| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 84 Tetrachloroethene            | 166 | 7.070     | 7.082         | -0.012        | 98  | 62348    | 20.0         | 23.4           |       |
| 85 1,3-Dichloropropane          | 76  | 7.253     | 7.253         | 0.000         | 93  | 72757    | 20.0         | 18.3           |       |
| 86 2-Hexanone                   | 58  | 7.333     | 7.333         | 0.000         | 97  | 75606    | 100.0        | 106.0          |       |
| 87 n-Butyl acetate              | 43  | 7.447     | 7.447         | 0.000         | 98  | 61678    | 20.0         | 14.2           |       |
| 88 Chlorodibromomethane         | 129 | 7.481     | 7.481         | 0.000         | 98  | 63204    | 20.0         | 21.6           |       |
| 89 Ethylene Dibromide           | 107 | 7.630     | 7.630         | 0.000         | 100 | 52504    | 20.0         | 19.8           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.178     | 8.178         | 0.000         | 83  | 348639   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.212     | 8.212         | 0.000         | 98  | 149201   | 20.0         | 21.0           |       |
| 92 Ethylbenzene                 | 106 | 8.315     | 8.315         | 0.000         | 98  | 67907    | 20.0         | 20.0           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.338     | 8.338         | 0.000         | 96  | 57794    | 20.0         | 22.2           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.475     | 8.475         | 0.000         | 0   | 78646    | 20.0         | 19.2           |       |
| 96 o-Xylene                     | 106 | 9.000     | 9.000         | 0.000         | 95  | 73582    | 20.0         | 18.1           |       |
| 95 n-Butyl acrylate             | 73  | 9.011     | 9.011         | 0.000         | 97  | 31613    | 20.0         | 13.9           |       |
| 97 Styrene                      | 104 | 9.046     | 9.046         | 0.000         | 97  | 150410   | 20.0         | 20.5           |       |
| 99 Bromoform                    | 173 | 9.297     | 9.297         | 0.000         | 98  | 47136    | 20.0         | 22.5           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.297     | 9.297         | 0.000         | 90  | 62110    | 20.0         | 10.6           |       |
| 100 Isopropylbenzene            | 105 | 9.434     | 9.434         | 0.000         | 95  | 195422   | 20.0         | 20.1           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.651     | 9.651         | 0.000         | 97  | 142338   | 50.0         | 54.2           |       |
| 102 Bromobenzene                | 156 | 9.776     | 9.776         | 0.000         | 88  | 71102    | 20.0         | 20.3           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.845     | 9.845         | 0.000         | 99  | 72739    | 20.0         | 17.3           |       |
| 104 N-Propylbenzene             | 91  | 9.856     | 9.856         | 0.000         | 99  | 232847   | 20.0         | 18.8           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.879     | 9.879         | 0.000         | 96  | 19357    | 20.0         | 18.9           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.902     | 9.902         | 0.000         | 89  | 15959    | 20.0         | 14.5           |       |
| 107 2-Chlorotoluene             | 91  | 9.947     | 9.947         | 0.000         | 97  | 177173   | 20.0         | 19.0           |       |
| 108 4-Ethyltoluene              | 105 | 9.959     | 9.959         | 0.000         | 98  | 214867   | 20.0         | 20.3           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.027    | 10.027        | 0.000         | 95  | 174550   | 20.0         | 20.2           |       |
| 110 4-Chlorotoluene             | 91  | 10.050    | 10.050        | 0.000         | 96  | 170777   | 20.0         | 19.1           |       |
| 111 Butyl Methacrylate          | 87  | 10.130    | 10.130        | 0.000         | 89  | 59019    | 20.0         | 14.1           |       |
| 112 tert-Butylbenzene           | 119 | 10.279    | 10.279        | 0.000         | 96  | 133227   | 20.0         | 19.7           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.336    | 10.336        | 0.000         | 96  | 180320   | 20.0         | 18.6           |       |
| 114 sec-Butylbenzene            | 105 | 10.450    | 10.450        | 0.000         | 99  | 185970   | 20.0         | 19.7           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.564    | 10.564        | 0.000         | 89  | 133368   | 20.0         | 21.4           |       |
| 115 4-Isopropyltoluene          | 119 | 10.564    | 10.564        | 0.000         | 98  | 166879   | 20.0         | 16.1           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.621    | 10.621        | 0.000         | 92  | 219991   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.632    | 10.632        | 0.000         | 98  | 134810   | 20.0         | 20.3           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.655    | 10.655        | 0.000         | 97  | 203669   | 20.0         | 19.5           |       |
| 119 Benzyl chloride             | 91  | 10.747    | 10.747        | 0.000         | 100 | 123976   | 20.0         | 17.8           |       |
| 120 2,3-Dihydroindene           | 117 | 10.792    | 10.792        | 0.000         | 95  | 218726   | 20.0         | 20.6           |       |
| 121 p-Diethylbenzene            | 119 | 10.838    | 10.838        | 0.000         | 95  | 98282    | 20.0         | 21.2           |       |
| 122 n-Butylbenzene              | 92  | 10.849    | 10.849        | 0.000         | 95  | 87624    | 20.0         | 20.2           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.895    | 10.895        | 0.000         | 99  | 132301   | 20.0         | 21.6           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.340    | 11.340        | 0.000         | 98  | 146553   | 20.0         | 14.6           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.409    | 11.420        | -0.011        | 97  | 12455    | 20.0         | 19.0           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.489    | 11.500        | -0.011        | 97  | 84626    | 20.0         | 22.0           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.865    | 11.877        | -0.012        | 94  | 71305    | 20.0         | 19.5           |       |
| 128 Hexachlorobutadiene         | 225 | 11.934    | 11.934        | 0.000         | 98  | 31361    | 20.0         | 25.4           |       |
| 129 Naphthalene                 | 128 | 12.025    | 12.025        | 0.000         | 99  | 184375   | 20.0         | 19.2           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.174    | 12.185        | -0.011        | 96  | 69096    | 20.0         | 20.7           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 40.5           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 37.3           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 97.5           |       |

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00280     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76038.D

Injection Date: 09-Oct-2018 20:13:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: LCS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

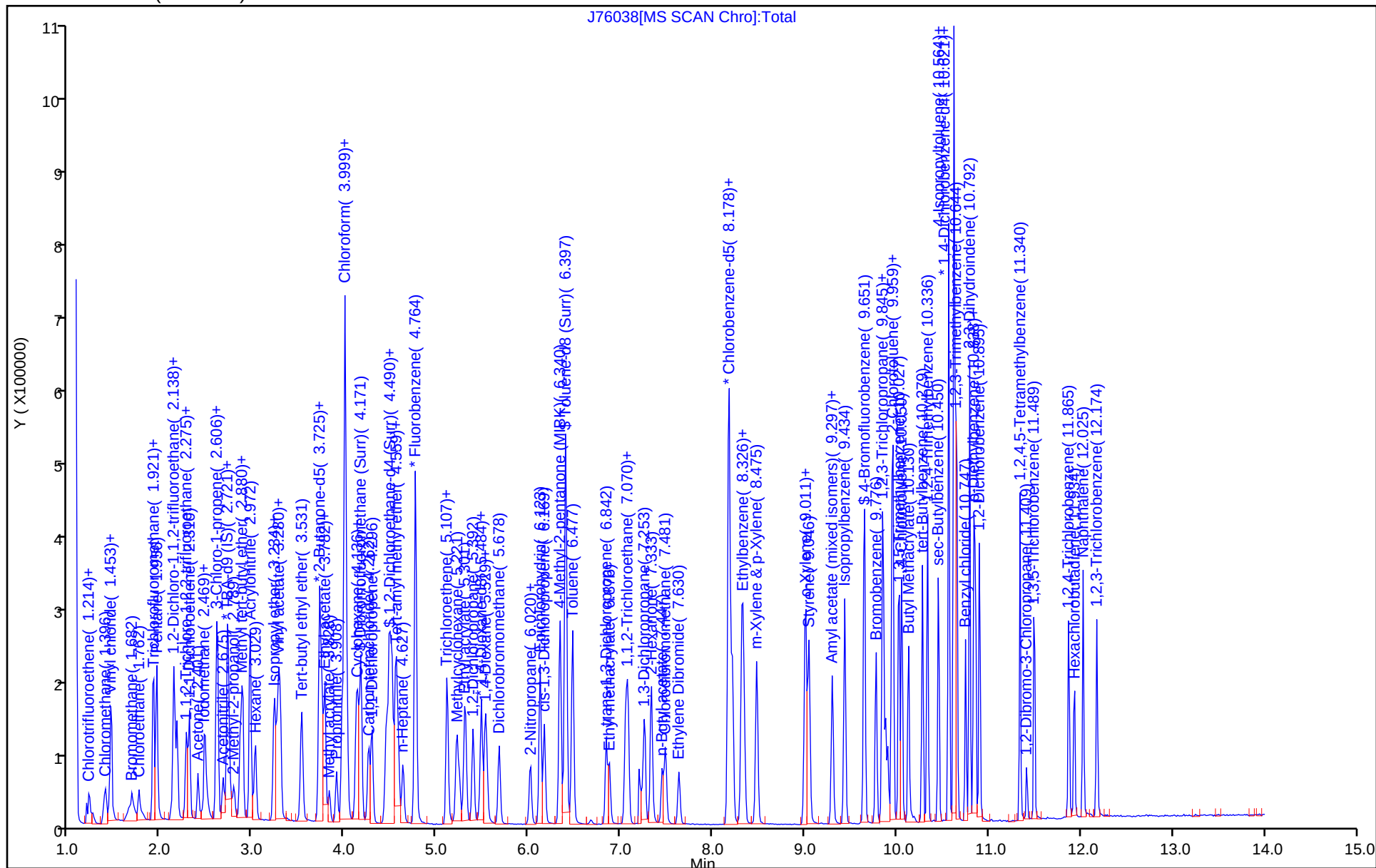
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-558952/4

Matrix: Water Lab File ID: J76067.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5(mL) Date Analyzed: 10/10/2018 08:44

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 558952 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 20.9   |   | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 17.5   |   | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 19.4   |   | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 18.4   |   | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 19.9   |   | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 18.7   |   | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 18.9   |   | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 124    |   | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 113    |   | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 109    |   | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 110    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 20.3   |   | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 23.4   |   | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 16.2   |   | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 19.0   |   | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 21.1   |   | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 21.2   |   | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 23.0   |   | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 20.5   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 20.7   |   | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 16.3   |   | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 20.1   |   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 19.4   |   | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 20.2   |   | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 20.1   |   | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 20.9   |   | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 24.0   |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 19.5   |   | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 20.9   |   | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 17.6   |   | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 20.6   |   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 18.1   |   | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 37.9   |   | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-558952/4  
Matrix: Water Lab File ID: J76067.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 08:44  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558952 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 87   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 107  |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76067.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 10-Oct-2018 08:44:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS  
 Misc. Info.: 460-0080037-004  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:38:10 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0318

First Level Reviewer: moroneyc

Date: 10-Oct-2018 09:37:12

| Compound                      | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.190     | 1.191         | -0.001        | 92  | 6741     | 20.0         | 15.4           |       |
| 2 Dichlorodifluoromethane     | 85  | 1.224     | 1.225         | -0.001        | 99  | 69306    | 20.0         | 20.9           |       |
| 3 Chloromethane               | 50  | 1.396     | 1.396         | 0.000         | 99  | 63804    | 20.0         | 16.3           |       |
| 4 Vinyl chloride              | 62  | 1.441     | 1.442         | -0.001        | 98  | 66074    | 20.0         | 18.1           |       |
| 5 Butadiene                   | 54  | 1.464     | 1.465         | -0.001        | 96  | 49293    | 20.0         | 16.1           |       |
| 6 Bromomethane                | 94  | 1.692     | 1.693         | -0.001        | 98  | 28386    | 20.0         | 16.2           |       |
| 7 Chloroethane                | 64  | 1.772     | 1.773         | -0.001        | 100 | 36748    | 20.0         | 20.5           |       |
| 9 Trichlorofluoromethane      | 101 | 1.921     | 1.921         | 0.000         | 98  | 85226    | 20.0         | 23.7           |       |
| 8 Dichlorofluoromethane       | 67  | 1.921     | 1.921         | 0.000         | 87  | 110568   | 20.0         | 22.1           |       |
| 10 Pentane                    | 72  | 1.955     | 1.956         | -0.001        | 96  | 9866     | 40.0         | 36.3           |       |
| 11 Ethanol                    | 46  | 2.103     | 2.104         | -0.001        | 98  | 10106    | 800.0        | 746.8          | a     |
| 12 Ethyl ether                | 59  | 2.138     | 2.138         | 0.000         | 94  | 35487    | 20.0         | 17.4           |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.149     | 2.150         | -0.001        | 91  | 35427    | 20.0         | 15.9           |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.183     | 2.173         | 0.010         | 90  | 43793    | 20.0         | 21.9           |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.286     | 2.275         | 0.011         | 97  | 48885    | 20.0         | 21.6           |       |
| 16 Acrolein                   | 56  | 2.298     | 2.287         | 0.011         | 96  | 15995    | 40.0         | 39.4           |       |
| 17 1,1-Dichloroethene         | 96  | 2.309     | 2.310         | -0.001        | 98  | 44299    | 20.0         | 19.9           |       |
| 18 Acetone                    | 43  | 2.400     | 2.401         | -0.001        | 87  | 67645    | 100.0        | 109.6          |       |
| 19 Iodomethane                | 142 | 2.457     | 2.458         | -0.001        | 96  | 26408    | 20.0         | 7.41           |       |
| 20 Carbon disulfide           | 76  | 2.480     | 2.481         | -0.001        | 98  | 168159   | 20.0         | 19.0           |       |
| 21 Isopropyl alcohol          | 45  | 2.492     | 2.492         | 0.000         | 98  | 29621    | 200.0        | 192.8          |       |
| 22 3-Chloro-1-propene         | 76  | 2.606     | 2.606         | 0.000         | 96  | 28062    | 20.0         | 18.9           |       |
| 23 Cyclopentene               | 67  | 2.617     | 2.618         | -0.001        | 95  | 104480   | 20.0         | 17.1           |       |
| 24 Methyl acetate             | 43  | 2.617     | 2.618         | -0.001        | 98  | 74305    | 40.0         | 31.4           |       |
| 25 Acetonitrile               | 41  | 2.674     | 2.675         | -0.001        | 99  | 64361    | 200.0        | 188.2          |       |
| 26 Methylene Chloride         | 84  | 2.731     | 2.732         | -0.001        | 55  | 56408    | 20.0         | 20.1           |       |
| * 27 TBA-d9 (IS)              | 65  | 2.731     | 2.732         | -0.001        | 0   | 188898   | 1000.0       | 1000.0         |       |
| 28 2-Methyl-2-propanol        | 59  | 2.788     | 2.789         | -0.001        | 98  | 45078    | 200.0        | 202.4          |       |
| 29 Methyl tert-butyl ether    | 73  | 2.868     | 2.869         | -0.001        | 97  | 123734   | 20.0         | 18.6           |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.891     | 2.892         | -0.001        | 92  | 53503    | 20.0         | 20.9           |       |
| 31 Acrylonitrile              | 53  | 2.971     | 2.972         | -0.001        | 95  | 193532   | 200.0        | 203.6          |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 32 Hexane                        | 57  | 3.028     | 3.029         | -0.001        | 93  | 45562    | 20.0         | 17.0           |       |
| 33 Isopropyl ether               | 45  | 3.234     | 3.234         | 0.000         | 98  | 140430   | 20.0         | 15.7           |       |
| 34 1,1-Dichloroethane            | 63  | 3.268     | 3.269         | -0.001        | 99  | 90254    | 20.0         | 18.4           |       |
| 35 Vinyl acetate                 | 43  | 3.279     | 3.280         | -0.001        | 100 | 201749   | 40.0         | 37.8           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.302     | 3.303         | -0.001        | 89  | 43427    | 20.0         | 18.9           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.531     | 3.531         | 0.000         | 89  | 128242   | 20.0         | 17.1           |       |
| 38 2,2-Dichloropropane           | 79  | 3.725     | 3.725         | 0.000         | 94  | 23703    | 20.0         | 20.2           |       |
| * 39 2-Butanone-d5               | 46  | 3.736     | 3.725         | 0.011         | 0   | 237878   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.759     | 3.759         | 0.000         | 99  | 59127    | 20.0         | 20.1           |       |
| 41 2-Butanone (MEK)              | 72  | 3.782     | 3.782         | 0.000         | 96  | 30508    | 100.0        | 124.1          |       |
| 42 Ethyl acetate                 | 70  | 3.793     | 3.782         | 0.011         | 96  | 11443    | 40.0         | 47.6           |       |
| 43 Methyl acrylate               | 55  | 3.839     | 3.828         | 0.011         | 99  | 43026    | 20.0         | 15.7           |       |
| 44 Propionitrile                 | 54  | 3.907     | 3.908         | -0.001        | 98  | 76104    | 200.0        | 202.7          |       |
| 46 Chlorobromomethane            | 128 | 3.976     | 3.976         | 0.000         | 82  | 33038    | 20.0         | 23.0           |       |
| 45 Tetrahydrofuran               | 72  | 3.976     | 3.976         | 0.000         | 75  | 11746    | 40.0         | 46.8           |       |
| 47 Methacrylonitrile             | 67  | 4.010     | 3.999         | 0.011         | 91  | 225044   | 200.0        | 193.1          |       |
| 48 Chloroform                    | 83  | 4.021     | 4.022         | -0.001        | 99  | 93059    | 20.0         | 20.7           |       |
| 49 Cyclohexane                   | 84  | 4.124     | 4.125         | -0.001        | 92  | 59466    | 20.0         | 20.1           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.147     | 4.148         | -0.001        | 99  | 75013    | 20.0         | 20.9           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.181     | 4.182         | -0.001        | 97  | 118128   | 50.0         | 50.6           |       |
| 52 Carbon tetrachloride          | 117 | 4.261     | 4.262         | -0.001        | 99  | 66460    | 20.0         | 21.1           |       |
| 53 1,1-Dichloropropene           | 75  | 4.295     | 4.296         | -0.001        | 97  | 59400    | 20.0         | 18.4           |       |
| 54 Isooctane                     | 57  | 4.455     | 4.456         | -0.001        | 91  | 80729    | 20.0         | 18.3           |       |
| 55 Benzene                       | 78  | 4.490     | 4.490         | 0.000         | 94  | 210135   | 20.0         | 20.3           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.512     | 4.513         | -0.001        | 0   | 111408   | 50.0         | 43.7           |       |
| 58 Isobutyl alcohol              | 43  | 4.455     | 4.559         | -0.104        | 93  | 60603    | 500.0        | 509.5          | a     |
| 57 Tert-amyl methyl ether        | 87  | 4.558     | 4.559         | -0.001        | 87  | 37670    | 20.0         | 18.5           |       |
| 59 Isopropyl acetate             | 43  | 4.558     | 4.559         | -0.001        | 95  | 122188   | 20.0         | 16.4           |       |
| 60 1,2-Dichloroethane            | 62  | 4.581     | 4.581         | 0.000         | 97  | 64382    | 20.0         | 18.7           |       |
| 61 n-Heptane                     | 57  | 4.638     | 4.639         | -0.001        | 91  | 17982    | 20.0         | 17.7           |       |
| * 62 Fluorobenzene               | 96  | 4.775     | 4.776         | -0.001        | 99  | 433574   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.106     | 5.107         | -0.001        | 87  | 27328    | 500.0        | 512.5          |       |
| 64 Trichloroethene               | 95  | 5.117     | 5.118         | -0.001        | 96  | 52496    | 20.0         | 20.6           |       |
| 65 Methylcyclohexane             | 83  | 5.220     | 5.221         | -0.001        | 94  | 57589    | 20.0         | 19.0           |       |
| 66 Ethyl acrylate                | 55  | 5.255     | 5.244         | 0.010         | 97  | 100801   | 20.0         | 24.8           | a     |
| 67 1,2-Dichloropropane           | 63  | 5.403     | 5.392         | 0.011         | 92  | 52653    | 20.0         | 18.9           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.471     | 5.472         | -0.001        | 0   | 24915    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.483     | 5.483         | 0.000         | 90  | 26349    | 40.0         | 42.1           |       |
| 70 1,4-Dioxane                   | 88  | 5.529     | 5.529         | -0.001        | 43  | 13829    | 400.0        | 445.8          |       |
| 71 Dibromomethane                | 93  | 5.529     | 5.529         | -0.001        | 94  | 39369    | 20.0         | 21.2           |       |
| 72 n-Propyl acetate              | 43  | 5.551     | 5.540         | 0.011         | 97  | 64689    | 20.0         | 15.3           |       |
| 73 Dichlorobromomethane          | 83  | 5.677     | 5.677         | 0.000         | 98  | 72850    | 20.0         | 20.4           |       |
| 74 2-Nitropropane                | 41  | 6.019     | 6.020         | -0.001        | 96  | 24354    | 40.0         | 40.8           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.019     | 6.020         | -0.001        | 92  | 24477    | 20.0         | 13.0           |       |
| 76 Epichlorohydrin               | 57  | 6.122     | 6.123         | -0.001        | 100 | 190688   | 400.0        | 972.9          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.168     | 6.168         | 0.000         | 91  | 80452    | 20.0         | 19.4           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.339     | 6.340         | -0.001        | 97  | 218570   | 100.0        | 108.6          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.408     | 6.408         | 0.000         | 99  | 399753   | 50.0         | 48.1           |       |
| 80 Toluene                       | 91  | 6.476     | 6.477         | -0.001        | 94  | 206483   | 20.0         | 19.5           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.841     | 6.842         | -0.001        | 97  | 66333    | 20.0         | 17.6           |       |
| 82 Ethyl methacrylate            | 69  | 6.876     | 6.876         | 0.000         | 89  | 48717    | 20.0         | 13.8           |       |
| 83 1,1,2-Trichloroethane         | 83  | 7.058     | 7.059         | -0.001        | 98  | 45061    | 20.0         | 19.4           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 84 Tetrachloroethene            | 166 | 7.081     | 7.082         | -0.001        | 96  | 63895    | 20.0         | 24.0           |       |
| 85 1,3-Dichloropropane          | 76  | 7.264     | 7.264         | 0.000         | 93  | 74379    | 20.0         | 18.7           |       |
| 86 2-Hexanone                   | 58  | 7.332     | 7.333         | -0.001        | 97  | 79311    | 100.0        | 113.0          |       |
| 87 n-Butyl acetate              | 43  | 7.458     | 7.459         | 0.000         | 99  | 63537    | 20.0         | 14.6           |       |
| 88 Chlorodibromomethane         | 129 | 7.492     | 7.493         | -0.001        | 97  | 64704    | 20.0         | 22.1           |       |
| 89 Ethylene Dibromide           | 107 | 7.641     | 7.641         | 0.000         | 100 | 53441    | 20.0         | 20.2           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.177     | 8.178         | -0.001        | 84  | 348184   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.211     | 8.212         | -0.001        | 98  | 150562   | 20.0         | 21.2           |       |
| 92 Ethylbenzene                 | 106 | 8.326     | 8.326         | 0.000         | 98  | 68695    | 20.0         | 20.2           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.337     | 8.338         | -0.001        | 95  | 57874    | 20.0         | 22.3           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.485     | 8.486         | -0.001        | 0   | 79812    | 20.0         | 19.5           |       |
| 96 o-Xylene                     | 106 | 9.011     | 9.011         | 0.000         | 95  | 74623    | 20.0         | 18.4           |       |
| 95 n-Butyl acrylate             | 73  | 9.022     | 9.023         | -0.001        | 97  | 32090    | 20.0         | 14.1           |       |
| 97 Styrene                      | 104 | 9.045     | 9.045         | 0.000         | 97  | 153280   | 20.0         | 20.9           |       |
| 99 Bromoform                    | 173 | 9.296     | 9.297         | -0.001        | 98  | 48965    | 20.0         | 23.4           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.307     | 9.297         | 0.010         | 90  | 64760    | 20.0         | 11.1           |       |
| 100 Isopropylbenzene            | 105 | 9.433     | 9.434         | -0.001        | 95  | 190414   | 20.0         | 19.6           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.650     | 9.651         | -0.001        | 98  | 139976   | 50.0         | 53.3           |       |
| 102 Bromobenzene                | 156 | 9.776     | 9.776         | 0.000         | 89  | 71043    | 20.0         | 20.3           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.844     | 9.845         | -0.001        | 99  | 73879    | 20.0         | 17.5           |       |
| 104 N-Propylbenzene             | 91  | 9.855     | 9.856         | -0.001        | 100 | 216596   | 20.0         | 17.5           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.878     | 9.879         | -0.001        | 96  | 18808    | 20.0         | 18.3           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.901     | 9.902         | -0.001        | 78  | 15887    | 20.0         | 14.5           |       |
| 107 2-Chlorotoluene             | 91  | 9.947     | 9.947         | 0.000         | 98  | 175785   | 20.0         | 18.8           |       |
| 108 4-Ethyltoluene              | 105 | 9.958     | 9.959         | -0.001        | 98  | 209482   | 20.0         | 19.8           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.027    | 10.027        | 0.000         | 94  | 167576   | 20.0         | 19.4           |       |
| 110 4-Chlorotoluene             | 91  | 10.061    | 10.062        | -0.001        | 95  | 167353   | 20.0         | 18.8           |       |
| 111 Butyl Methacrylate          | 87  | 10.129    | 10.130        | -0.001        | 89  | 60825    | 20.0         | 14.6           |       |
| 112 tert-Butylbenzene           | 119 | 10.278    | 10.278        | 0.000         | 96  | 132076   | 20.0         | 19.5           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.335    | 10.336        | -0.001        | 97  | 180857   | 20.0         | 18.6           |       |
| 114 sec-Butylbenzene            | 105 | 10.461    | 10.461        | 0.000         | 99  | 184479   | 20.0         | 19.5           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.563    | 10.564        | -0.001        | 96  | 132310   | 20.0         | 21.3           |       |
| 115 4-Isopropyltoluene          | 119 | 10.563    | 10.564        | -0.001        | 97  | 164816   | 20.0         | 15.9           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.620    | 10.621        | -0.001        | 92  | 220030   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.643    | 10.644        | -0.001        | 97  | 133707   | 20.0         | 20.2           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.655    | 10.655        | 0.000         | 97  | 200455   | 20.0         | 19.2           |       |
| 119 Benzyl chloride             | 91  | 10.746    | 10.747        | -0.001        | 99  | 121153   | 20.0         | 17.4           |       |
| 120 2,3-Dihydroindene           | 117 | 10.792    | 10.792        | 0.000         | 94  | 219918   | 20.0         | 20.7           |       |
| 121 p-Diethylbenzene            | 119 | 10.837    | 10.838        | -0.001        | 94  | 95530    | 20.0         | 20.6           |       |
| 122 n-Butylbenzene              | 92  | 10.860    | 10.861        | -0.001        | 98  | 84807    | 20.0         | 19.5           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.906    | 10.906        | 0.000         | 100 | 132877   | 20.0         | 21.7           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.340    | 11.340        | 0.000         | 98  | 143852   | 20.0         | 14.3           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.420    | 11.420        | 0.000         | 88  | 13552    | 20.0         | 20.6           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.499    | 11.500        | -0.001        | 96  | 85197    | 20.0         | 22.2           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.876    | 11.865        | 0.011         | 93  | 75760    | 20.0         | 20.7           |       |
| 128 Hexachlorobutadiene         | 225 | 11.933    | 11.934        | -0.001        | 98  | 30015    | 20.0         | 24.3           |       |
| 129 Naphthalene                 | 128 | 12.025    | 12.025        | 0.000         | 100 | 189870   | 20.0         | 19.8           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.184    | 12.174        | 0.010         | 95  | 71347    | 20.0         | 21.3           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 41.0           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 37.9           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 97.9           |       |



**QC Flag Legend**

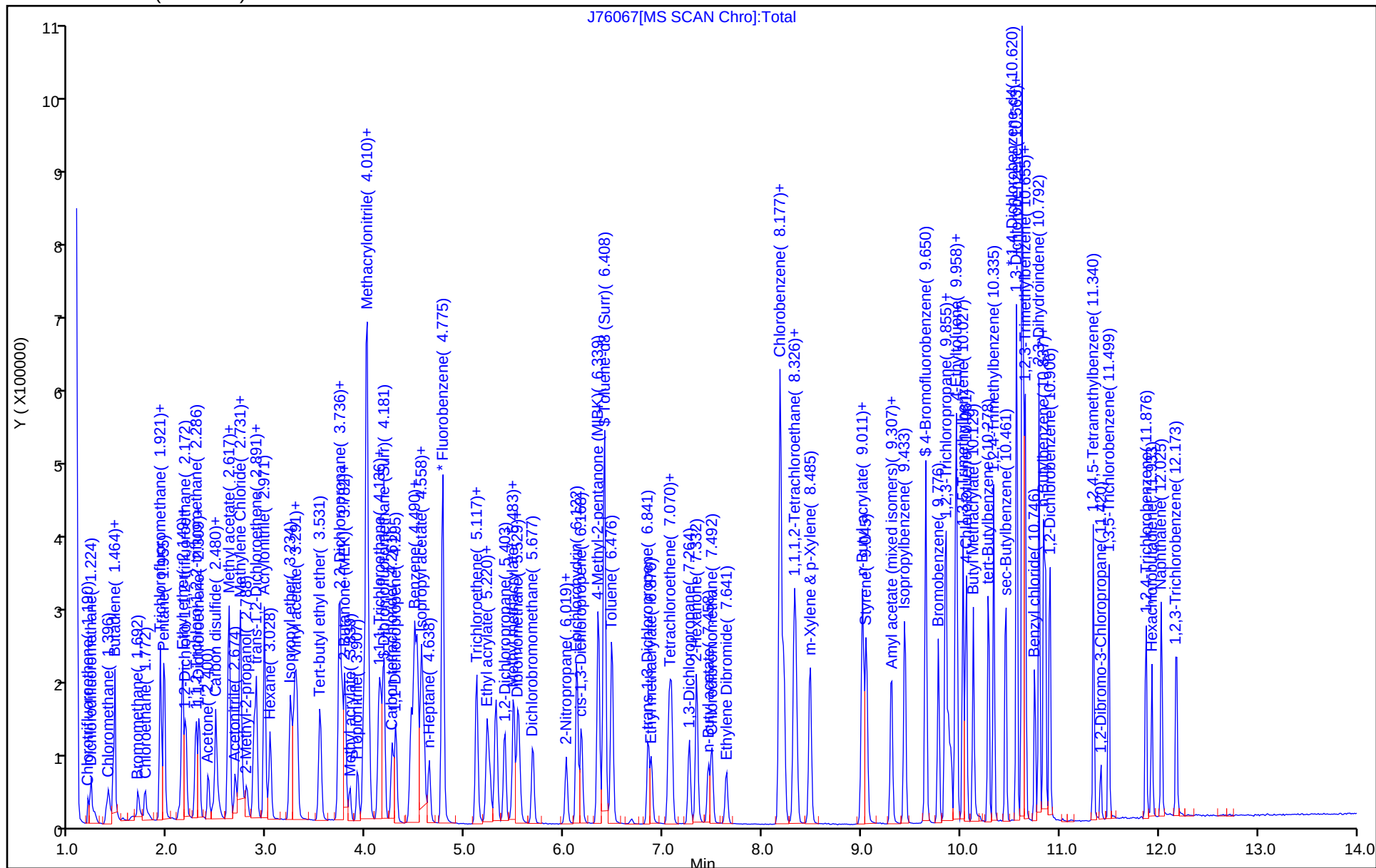
## Review Flags

a - User Assigned ID

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00281     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

Column: Rtx-624 ( 0.25 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-559112/4

Matrix: Water Lab File ID: J76067.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 20:08

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 559112 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 20.2   |   | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 17.4   |   | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 19.0   |   | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 18.5   |   | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 19.0   |   | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 19.3   |   | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 18.8   |   | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 127    |   | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 115    |   | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 111    |   | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 120    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 19.9   |   | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 22.5   |   | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 9.94   |   | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 17.8   |   | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 19.7   |   | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 20.9   |   | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 23.0   |   | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 18.9   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 20.6   |   | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 15.4   |   | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 20.3   |   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 19.4   |   | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 19.8   |   | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 20.7   |   | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 20.7   |   | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 23.4   |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 19.5   |   | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 20.4   |   | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 17.7   |   | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 20.0   |   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 16.6   |   | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 37.8   |   | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-559112/4  
Matrix: Water Lab File ID: J76067.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 20:08  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 559112 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 106  |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 101  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\J76067.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 10-Oct-2018 20:08:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS  
 Misc. Info.: 460-0080066-004  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 08:26:43 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0317

First Level Reviewer: moroneyc

Date: 11-Oct-2018 08:19:32

| Compound                      | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.202     | 1.193         | 0.009         | 83  | 5782     | 20.0         | 13.2           |       |
| 2 Dichlorodifluoromethane     | 85  | 1.225     | 1.228         | -0.003        | 99  | 57797    | 20.0         | 17.4           |       |
| 3 Chloromethane               | 50  | 1.396     | 1.399         | -0.003        | 99  | 60098    | 20.0         | 15.4           |       |
| 4 Vinyl chloride              | 62  | 1.442     | 1.445         | -0.003        | 98  | 60648    | 20.0         | 16.6           |       |
| 5 Butadiene                   | 54  | 1.465     | 1.467         | -0.002        | 95  | 45453    | 20.0         | 14.8           |       |
| 6 Bromomethane                | 94  | 1.693     | 1.696         | -0.003        | 98  | 18037    | 20.0         | 9.94           |       |
| 7 Chloroethane                | 64  | 1.762     | 1.764         | -0.002        | 100 | 33941    | 20.0         | 18.9           |       |
| 9 Trichlorofluoromethane      | 101 | 1.922     | 1.924         | -0.002        | 99  | 76019    | 20.0         | 21.1           |       |
| 8 Dichlorofluoromethane       | 67  | 1.922     | 1.924         | -0.002        | 84  | 106187   | 20.0         | 21.2           |       |
| 10 Pentane                    | 72  | 1.967     | 1.958         | 0.009         | 96  | 9187     | 40.0         | 35.8           |       |
| 11 Ethanol                    | 46  | 2.116     | 2.118         | -0.002        | 99  | 10572    | 800.0        | 827.9          |       |
| 12 Ethyl ether                | 59  | 2.139     | 2.141         | -0.002        | 96  | 36226    | 20.0         | 17.7           |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.150     | 2.153         | -0.002        | 96  | 32263    | 20.0         | 14.4           |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.184     | 2.187         | -0.003        | 92  | 41729    | 20.0         | 20.8           |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.287     | 2.290         | -0.003        | 97  | 43237    | 20.0         | 19.0           |       |
| 16 Acrolein                   | 56  | 2.298     | 2.301         | -0.003        | 94  | 14463    | 40.0         | 37.7           |       |
| 17 1,1-Dichloroethene         | 96  | 2.321     | 2.324         | -0.003        | 96  | 42294    | 20.0         | 19.0           |       |
| 18 Acetone                    | 43  | 2.413     | 2.415         | -0.002        | 87  | 70410    | 100.0        | 120.3          |       |
| 19 Iodomethane                | 142 | 2.458     | 2.461         | -0.003        | 98  | 29752    | 20.0         | 8.33           |       |
| 20 Carbon disulfide           | 76  | 2.481     | 2.484         | -0.003        | 98  | 158525   | 20.0         | 17.8           |       |
| 21 Isopropyl alcohol          | 45  | 2.504     | 2.506         | -0.002        | 98  | 29701    | 200.0        | 204.9          |       |
| 22 3-Chloro-1-propene         | 76  | 2.607     | 2.609         | -0.002        | 93  | 28674    | 20.0         | 19.3           |       |
| 23 Cyclopentene               | 67  | 2.618     | 2.621         | -0.003        | 94  | 94951    | 20.0         | 15.5           |       |
| 24 Methyl acetate             | 43  | 2.629     | 2.632         | -0.003        | 100 | 70550    | 40.0         | 29.7           |       |
| 25 Acetonitrile               | 41  | 2.687     | 2.689         | -0.002        | 100 | 64613    | 200.0        | 200.2          |       |
| 26 Methylene Chloride         | 84  | 2.732     | 2.735         | -0.003        | 87  | 57905    | 20.0         | 20.7           |       |
| * 27 TBA-d9 (IS)              | 65  | 2.744     | 2.735         | 0.009         | 0   | 178246   | 1000.0       | 1000.0         |       |
| 28 2-Methyl-2-propanol        | 59  | 2.801     | 2.803         | -0.002        | 99  | 44642    | 200.0        | 212.4          |       |
| 29 Methyl tert-butyl ether    | 73  | 2.881     | 2.872         | 0.009         | 97  | 129008   | 20.0         | 19.4           |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.903     | 2.895         | 0.008         | 91  | 52148    | 20.0         | 20.4           |       |
| 31 Acrylonitrile              | 53  | 2.983     | 2.975         | 0.009         | 94  | 193647   | 200.0        | 215.9          |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 32 Hexane                        | 57  | 3.040     | 3.032         | 0.008         | 93  | 42323    | 20.0         | 15.8           |       |
| 33 Isopropyl ether               | 45  | 3.246     | 3.237         | 0.009         | 98  | 143801   | 20.0         | 16.0           |       |
| 34 1,1-Dichloroethane            | 63  | 3.269     | 3.271         | -0.002        | 99  | 90841    | 20.0         | 18.5           |       |
| 35 Vinyl acetate                 | 43  | 3.292     | 3.294         | -0.002        | 100 | 200660   | 40.0         | 37.5           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.314     | 3.306         | 0.008         | 88  | 43966    | 20.0         | 19.1           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.543     | 3.545         | -0.002        | 90  | 127664   | 20.0         | 17.0           |       |
| 38 2,2-Dichloropropane           | 79  | 3.725     | 3.728         | -0.003        | 95  | 23006    | 20.0         | 19.6           |       |
| * 39 2-Butanone-d5               | 46  | 3.737     | 3.739         | -0.002        | 0   | 225587   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.760     | 3.762         | -0.002        | 99  | 59894    | 20.0         | 20.3           |       |
| 41 2-Butanone (MEK)              | 72  | 3.794     | 3.797         | -0.003        | 96  | 29534    | 100.0        | 126.6          |       |
| 42 Ethyl acetate                 | 70  | 3.794     | 3.797         | -0.003        | 95  | 11598    | 40.0         | 50.9           |       |
| 43 Methyl acrylate               | 55  | 3.840     | 3.842         | -0.002        | 100 | 42041    | 20.0         | 15.3           |       |
| 44 Propionitrile                 | 54  | 3.920     | 3.922         | -0.002        | 99  | 75748    | 200.0        | 213.8          |       |
| 46 Chlorobromomethane            | 128 | 3.977     | 3.979         | -0.002        | 87  | 33091    | 20.0         | 23.0           |       |
| 45 Tetrahydrofuran               | 72  | 3.988     | 3.991         | -0.003        | 90  | 11493    | 40.0         | 48.3           |       |
| 47 Methacrylonitrile             | 67  | 4.011     | 4.013         | -0.002        | 91  | 216747   | 200.0        | 185.6          |       |
| 48 Chloroform                    | 83  | 4.034     | 4.036         | -0.002        | 99  | 92843    | 20.0         | 20.6           |       |
| 49 Cyclohexane                   | 84  | 4.136     | 4.139         | -0.003        | 91  | 54892    | 20.0         | 18.5           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.159     | 4.162         | -0.003        | 98  | 72681    | 20.0         | 20.2           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.182     | 4.185         | -0.003        | 98  | 118539   | 50.0         | 50.7           |       |
| 52 Carbon tetrachloride          | 117 | 4.273     | 4.265         | 0.008         | 98  | 62193    | 20.0         | 19.7           |       |
| 53 1,1-Dichloropropene           | 75  | 4.308     | 4.310         | -0.002        | 97  | 57814    | 20.0         | 17.9           |       |
| 54 Isooctane                     | 57  | 4.456     | 4.459         | -0.003        | 92  | 75486    | 20.0         | 17.1           |       |
| 58 Isobutyl alcohol              | 43  | 4.468     | 4.459         | 0.009         | 94  | 56215    | 500.0        | 500.8          | a     |
| 55 Benzene                       | 78  | 4.490     | 4.493         | -0.003        | 96  | 210473   | 20.0         | 19.9           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.525     | 4.516         | 0.009         | 0   | 113328   | 50.0         | 44.3           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.570     | 4.573         | -0.003        | 79  | 38292    | 20.0         | 18.8           |       |
| 59 Isopropyl acetate             | 43  | 4.570     | 4.573         | -0.003        | 94  | 122111   | 20.0         | 16.4           |       |
| 60 1,2-Dichloroethane            | 62  | 4.593     | 4.596         | -0.003        | 97  | 66723    | 20.0         | 19.3           |       |
| 61 n-Heptane                     | 57  | 4.639     | 4.641         | -0.002        | 93  | 18481    | 20.0         | 18.2           |       |
| * 62 Fluorobenzene               | 96  | 4.776     | 4.778         | -0.002        | 99  | 434489   | 50.0         | 50.0           |       |
| 64 Trichloroethene               | 95  | 5.118     | 5.121         | -0.003        | 96  | 50974    | 20.0         | 20.0           |       |
| 63 n-Butanol                     | 56  | 5.232     | 5.235         | -0.003        | 43  | 21789    | 500.0        | 433.0          |       |
| 65 Methylcyclohexane             | 83  | 5.232     | 5.235         | -0.003        | 91  | 52148    | 20.0         | 17.2           |       |
| 66 Ethyl acrylate                | 55  | 5.255     | 5.258         | -0.003        | 98  | 96844    | 20.0         | 23.8           |       |
| 67 1,2-Dichloropropane           | 63  | 5.404     | 5.406         | -0.002        | 92  | 52554    | 20.0         | 18.8           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.484     | 5.486         | -0.002        | 0   | 24168    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.495     | 5.498         | -0.003        | 89  | 25854    | 40.0         | 41.2           |       |
| 70 1,4-Dioxane                   | 88  | 5.529     | 5.532         | -0.003        | 35  | 13551    | 400.0        | 450.4          |       |
| 71 Dibromomethane                | 93  | 5.541     | 5.532         | 0.009         | 93  | 41266    | 20.0         | 22.2           |       |
| 72 n-Propyl acetate              | 43  | 5.552     | 5.555         | -0.003        | 98  | 64980    | 20.0         | 15.3           |       |
| 73 Dichlorobromomethane          | 83  | 5.689     | 5.692         | -0.003        | 99  | 73721    | 20.0         | 20.6           |       |
| 74 2-Nitropropane                | 41  | 6.020     | 6.023         | -0.003        | 86  | 23647    | 40.0         | 42.0           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.032     | 6.034         | -0.002        | 72  | 24274    | 20.0         | 12.9           |       |
| 76 Epichlorohydrin               | 57  | 6.134     | 6.137         | -0.003        | 99  | 184879   | 400.0        | 994.6          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.180     | 6.183         | -0.003        | 91  | 81919    | 20.0         | 19.4           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.351     | 6.354         | -0.003        | 96  | 211447   | 100.0        | 110.7          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.408     | 6.411         | -0.003        | 100 | 394441   | 50.0         | 46.5           |       |
| 80 Toluene                       | 91  | 6.488     | 6.491         | -0.003        | 94  | 210244   | 20.0         | 19.5           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.854     | 6.856         | -0.002        | 96  | 68109    | 20.0         | 17.7           |       |
| 82 Ethyl methacrylate            | 69  | 6.888     | 6.890         | -0.002        | 89  | 49086    | 20.0         | 13.8           |       |
| 83 1,1,2-Trichloroethane         | 83  | 7.059     | 7.062         | -0.003        | 96  | 45047    | 20.0         | 19.0           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 84 Tetrachloroethene            | 166 | 7.093     | 7.085         | 0.008         | 95  | 63493    | 20.0         | 23.4           |       |
| 85 1,3-Dichloropropane          | 76  | 7.276     | 7.267         | 0.009         | 94  | 74957    | 20.0         | 18.5           |       |
| 86 2-Hexanone                   | 58  | 7.345     | 7.347         | -0.002        | 97  | 76483    | 100.0        | 114.9          |       |
| 87 n-Butyl acetate              | 43  | 7.459     | 7.461         | -0.002        | 99  | 63425    | 20.0         | 14.3           |       |
| 88 Chlorodibromomethane         | 129 | 7.493     | 7.496         | -0.003        | 98  | 67236    | 20.0         | 22.5           |       |
| 89 Ethylene Dibromide           | 107 | 7.641     | 7.644         | -0.003        | 99  | 55219    | 20.0         | 20.4           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.189     | 8.192         | -0.003        | 84  | 355566   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.224     | 8.226         | -0.002        | 98  | 151577   | 20.0         | 20.9           |       |
| 92 Ethylbenzene                 | 106 | 8.326     | 8.329         | -0.003        | 98  | 68676    | 20.0         | 19.8           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.349     | 8.352         | -0.003        | 96  | 58914    | 20.0         | 22.2           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.486     | 8.489         | -0.003        | 0   | 80205    | 20.0         | 19.2           |       |
| 96 o-Xylene                     | 106 | 9.023     | 9.014         | 0.009         | 95  | 77212    | 20.0         | 18.7           |       |
| 95 n-Butyl acrylate             | 73  | 9.023     | 9.025         | -0.002        | 99  | 32125    | 20.0         | 13.8           |       |
| 97 Styrene                      | 104 | 9.057     | 9.060         | -0.003        | 97  | 155291   | 20.0         | 20.7           |       |
| 99 Bromoform                    | 173 | 9.308     | 9.311         | -0.003        | 98  | 48069    | 20.0         | 22.5           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.308     | 9.311         | -0.003        | 90  | 64728    | 20.0         | 10.9           |       |
| 100 Isopropylbenzene            | 105 | 9.445     | 9.448         | -0.003        | 95  | 187062   | 20.0         | 18.9           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.662     | 9.653         | 0.009         | 98  | 142722   | 50.0         | 53.2           |       |
| 102 Bromobenzene                | 156 | 9.788     | 9.790         | -0.002        | 88  | 72195    | 20.0         | 20.5           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.845     | 9.847         | -0.002        | 98  | 74027    | 20.0         | 17.4           |       |
| 104 N-Propylbenzene             | 91  | 9.856     | 9.859         | -0.003        | 100 | 228000   | 20.0         | 18.2           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.891     | 9.893         | -0.002        | 95  | 19125    | 20.0         | 18.5           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.913     | 9.916         | -0.003        | 80  | 16259    | 20.0         | 14.7           |       |
| 107 2-Chlorotoluene             | 91  | 9.959     | 9.962         | -0.003        | 97  | 176339   | 20.0         | 18.7           |       |
| 108 4-Ethyltoluene              | 105 | 9.970     | 9.973         | -0.003        | 98  | 211005   | 20.0         | 19.8           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.028    | 10.030        | -0.002        | 94  | 169699   | 20.0         | 19.5           |       |
| 110 4-Chlorotoluene             | 91  | 10.062    | 10.064        | -0.002        | 96  | 182470   | 20.0         | 20.3           |       |
| 111 Butyl Methacrylate          | 87  | 10.130    | 10.133        | -0.003        | 91  | 60729    | 20.0         | 14.4           |       |
| 112 tert-Butylbenzene           | 119 | 10.290    | 10.293        | -0.003        | 96  | 130063   | 20.0         | 19.0           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.347    | 10.338        | 0.009         | 96  | 181491   | 20.0         | 18.5           |       |
| 114 sec-Butylbenzene            | 105 | 10.461    | 10.464        | -0.003        | 99  | 187285   | 20.0         | 19.6           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.576    | 10.578        | -0.002        | 85  | 134198   | 20.0         | 21.4           |       |
| 115 4-Isopropyltoluene          | 119 | 10.576    | 10.578        | -0.002        | 98  | 167387   | 20.0         | 15.9           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.633    | 10.624        | 0.009         | 92  | 222130   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.644    | 10.647        | -0.003        | 97  | 138052   | 20.0         | 20.6           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.655    | 10.658        | -0.003        | 98  | 201019   | 20.0         | 19.0           |       |
| 119 Benzyl chloride             | 91  | 10.758    | 10.761        | -0.003        | 100 | 128686   | 20.0         | 18.3           |       |
| 120 2,3-Dihydroindene           | 117 | 10.804    | 10.795        | 0.009         | 94  | 220622   | 20.0         | 20.6           |       |
| 121 p-Diethylbenzene            | 119 | 10.850    | 10.841        | 0.009         | 94  | 94368    | 20.0         | 20.2           |       |
| 122 n-Butylbenzene              | 92  | 10.861    | 10.864        | -0.003        | 97  | 85841    | 20.0         | 19.6           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.907    | 10.909        | -0.002        | 99  | 133683   | 20.0         | 21.6           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.352    | 11.354        | -0.002        | 98  | 150338   | 20.0         | 14.8           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.432    | 11.423        | 0.009         | 87  | 12822    | 20.0         | 19.3           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.512    | 11.503        | 0.009         | 97  | 88101    | 20.0         | 22.7           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.888    | 11.880        | 0.008         | 92  | 76755    | 20.0         | 20.7           |       |
| 128 Hexachlorobutadiene         | 225 | 11.946    | 11.937        | 0.009         | 97  | 32033    | 20.0         | 25.7           |       |
| 129 Naphthalene                 | 128 | 12.048    | 12.039        | 0.009         | 100 | 187807   | 20.0         | 19.4           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.197    | 12.188        | 0.009         | 96  | 75258    | 20.0         | 22.3           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 40.7           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 37.8           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 97.0           |       |

**QC Flag Legend**

## Review Flags

a - User Assigned ID

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00281     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80066.b\\J76067.D

Injection Date: 10-Oct-2018 20:08:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

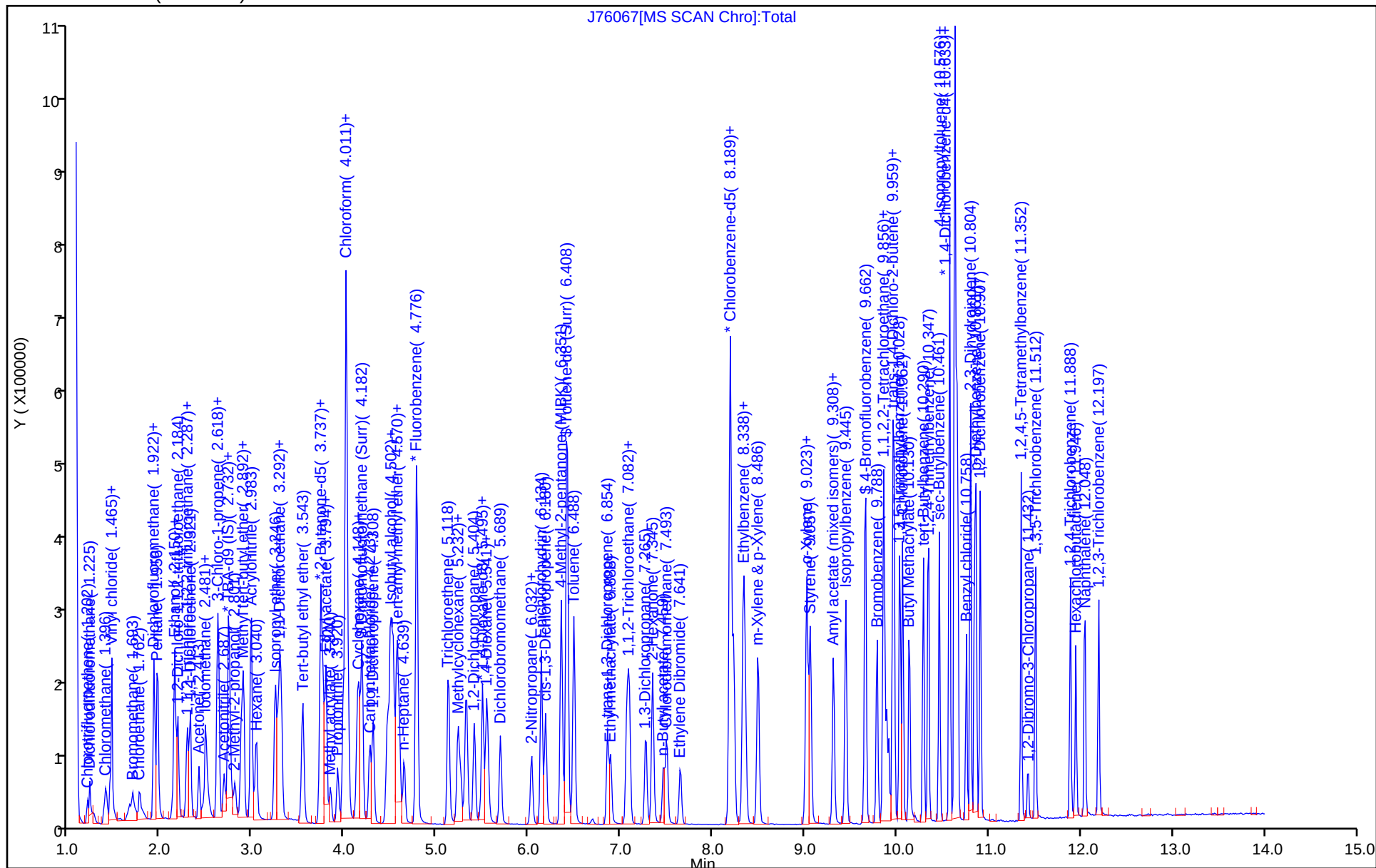
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-559235/4

Matrix: Water Lab File ID: J76117.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 10/11/2018 08:35

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 559235 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 21.1   |   | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 17.1   |   | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 18.5   |   | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 18.7   |   | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 20.4   |   | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 18.8   |   | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 18.4   |   | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 118    |   | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 108    |   | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 101    |   | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 115    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 19.9   |   | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 22.2   |   | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 15.2   |   | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 19.3   |   | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 21.3   |   | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 20.5   |   | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 22.6   |   | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 21.3   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 20.7   |   | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 17.0   |   | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 20.7   |   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 18.9   |   | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 19.2   |   | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 20.7   |   | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 20.0   |   | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 22.6   |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 19.0   |   | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 20.2   |   | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 17.0   |   | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 20.5   |   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 18.7   |   | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 37.7   |   | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-559235/4  
Matrix: Water Lab File ID: J76117.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/11/2018 08:35  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 559235 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 88   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 111  |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 103  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 93   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76117.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 11-Oct-2018 08:35:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS  
 Misc. Info.: 460-0080093-004  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 09:21:07 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0317

First Level Reviewer: moroneyc

Date: 11-Oct-2018 09:20:00

| Compound                      | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.202     | 1.203         | -0.001        | 93  | 6674     | 20.0         | 15.3           |       |
| 2 Dichlorodifluoromethane     | 85  | 1.225     | 1.225         | 0.000         | 99  | 72003    | 20.0         | 21.8           |       |
| 3 Chloromethane               | 50  | 1.407     | 1.408         | -0.001        | 99  | 66052    | 20.0         | 17.0           |       |
| 4 Vinyl chloride              | 62  | 1.453     | 1.454         | -0.001        | 98  | 67555    | 20.0         | 18.7           |       |
| 5 Butadiene                   | 54  | 1.476     | 1.465         | 0.011         | 97  | 49986    | 20.0         | 16.4           |       |
| 6 Bromomethane                | 94  | 1.704     | 1.705         | -0.001        | 98  | 26563    | 20.0         | 15.2           |       |
| 7 Chloroethane                | 64  | 1.784     | 1.773         | 0.011         | 99  | 37959    | 20.0         | 21.3           |       |
| 9 Trichlorofluoromethane      | 101 | 1.932     | 1.933         | -0.001        | 99  | 86857    | 20.0         | 24.3           |       |
| 8 Dichlorofluoromethane       | 67  | 1.932     | 1.933         | -0.001        | 92  | 110431   | 20.0         | 22.2           |       |
| 10 Pentane                    | 72  | 1.978     | 1.968         | 0.010         | 96  | 10817    | 40.0         | 39.3           |       |
| 11 Ethanol                    | 46  | 2.126     | 2.116         | 0.010         | 71  | 10724    | 800.0        | 782.4          | a     |
| 12 Ethyl ether                | 59  | 2.149     | 2.150         | -0.001        | 93  | 34886    | 20.0         | 17.2           |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.161     | 2.162         | -0.001        | 97  | 36765    | 20.0         | 16.6           |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.195     | 2.184         | 0.011         | 92  | 45238    | 20.0         | 22.7           |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.298     | 2.287         | 0.011         | 98  | 49334    | 20.0         | 21.9           |       |
| 16 Acrolein                   | 56  | 2.309     | 2.299         | 0.010         | 95  | 17405    | 40.0         | 42.3           |       |
| 17 1,1-Dichloroethene         | 96  | 2.332     | 2.321         | 0.011         | 96  | 45039    | 20.0         | 20.4           |       |
| 18 Acetone                    | 43  | 2.423     | 2.413         | 0.010         | 87  | 73379    | 100.0        | 115.2          |       |
| 19 Iodomethane                | 142 | 2.469     | 2.470         | -0.001        | 95  | 30380    | 20.0         | 8.57           |       |
| 20 Carbon disulfide           | 76  | 2.492     | 2.493         | -0.001        | 99  | 170046   | 20.0         | 19.3           |       |
| 21 Isopropyl alcohol          | 45  | 2.503     | 2.504         | -0.001        | 97  | 30140    | 200.0        | 193.7          |       |
| 22 3-Chloro-1-propene         | 76  | 2.617     | 2.618         | -0.001        | 92  | 28116    | 20.0         | 19.0           |       |
| 23 Cyclopentene               | 67  | 2.629     | 2.630         | -0.001        | 90  | 107674   | 20.0         | 17.7           |       |
| 24 Methyl acetate             | 43  | 2.640     | 2.630         | 0.010         | 100 | 72652    | 40.0         | 30.8           |       |
| 25 Acetonitrile               | 41  | 2.697     | 2.687         | 0.010         | 100 | 67240    | 200.0        | 194.1          |       |
| * 27 TBA-d9 (IS)              | 65  | 2.743     | 2.744         | -0.001        | 0   | 191323   | 1000.0       | 1000.0         |       |
| 26 Methylene Chloride         | 84  | 2.743     | 2.744         | -0.001        | 57  | 57630    | 20.0         | 20.7           |       |
| 28 2-Methyl-2-propanol        | 59  | 2.811     | 2.801         | 0.010         | 99  | 45468    | 200.0        | 201.6          |       |
| 29 Methyl tert-butyl ether    | 73  | 2.880     | 2.881         | -0.001        | 97  | 123062   | 20.0         | 18.6           |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.914     | 2.904         | 0.010         | 93  | 51331    | 20.0         | 20.2           |       |
| 31 Acrylonitrile              | 53  | 2.983     | 2.984         | -0.001        | 95  | 197244   | 200.0        | 204.9          |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 32 Hexane                        | 57  | 3.051     | 3.041         | 0.010         | 93  | 46942    | 20.0         | 17.6           |       |
| 33 Isopropyl ether               | 45  | 3.257     | 3.246         | 0.011         | 99  | 140713   | 20.0         | 15.8           |       |
| 34 1,1-Dichloroethane            | 63  | 3.280     | 3.280         | 0.000         | 99  | 91402    | 20.0         | 18.7           |       |
| 35 Vinyl acetate                 | 43  | 3.302     | 3.303         | -0.001        | 100 | 175233   | 40.0         | 33.0           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.325     | 3.315         | 0.010         | 88  | 43682    | 20.0         | 19.1           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.554     | 3.543         | 0.011         | 90  | 123930   | 20.0         | 16.6           |       |
| 38 2,2-Dichloropropane           | 79  | 3.736     | 3.737         | -0.001        | 88  | 24448    | 20.0         | 21.0           |       |
| * 39 2-Butanone-d5               | 46  | 3.748     | 3.749         | -0.001        | 0   | 245550   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.770     | 3.771         | -0.001        | 97  | 60516    | 20.0         | 20.7           |       |
| 41 2-Butanone (MEK)              | 72  | 3.805     | 3.794         | 0.011         | 96  | 29941    | 100.0        | 118.0          |       |
| 42 Ethyl acetate                 | 70  | 3.805     | 3.806         | -0.001        | 95  | 11383    | 40.0         | 45.9           |       |
| 43 Methyl acrylate               | 55  | 3.850     | 3.851         | -0.001        | 99  | 42085    | 20.0         | 15.5           |       |
| 44 Propionitrile                 | 54  | 3.930     | 3.931         | -0.001        | 98  | 75569    | 200.0        | 198.7          |       |
| 46 Chlorobromomethane            | 128 | 3.987     | 3.988         | -0.001        | 88  | 32331    | 20.0         | 22.6           |       |
| 45 Tetrahydrofuran               | 72  | 3.999     | 3.988         | 0.011         | 92  | 11880    | 40.0         | 45.9           |       |
| 47 Methacrylonitrile             | 67  | 4.022     | 4.023         | -0.001        | 92  | 221046   | 200.0        | 190.7          |       |
| 48 Chloroform                    | 83  | 4.044     | 4.045         | -0.001        | 99  | 92380    | 20.0         | 20.7           |       |
| 49 Cyclohexane                   | 84  | 4.147     | 4.148         | -0.001        | 92  | 58838    | 20.0         | 20.0           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.170     | 4.160         | 0.010         | 98  | 75229    | 20.0         | 21.1           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.193     | 4.194         | -0.001        | 98  | 119752   | 50.0         | 51.6           |       |
| 52 Carbon tetrachloride          | 117 | 4.284     | 4.274         | 0.010         | 98  | 66522    | 20.0         | 21.3           |       |
| 53 1,1-Dichloropropene           | 75  | 4.318     | 4.308         | 0.010         | 96  | 57702    | 20.0         | 18.0           |       |
| 54 Isooctane                     | 57  | 4.467     | 4.468         | -0.001        | 93  | 76593    | 20.0         | 17.5           |       |
| 58 Isobutyl alcohol              | 43  | 4.478     | 4.468         | 0.010         | 92  | 57992    | 500.0        | 481.3          | a     |
| 55 Benzene                       | 78  | 4.501     | 4.502         | -0.001        | 95  | 206000   | 20.0         | 19.9           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.535     | 4.525         | 0.010         | 0   | 111381   | 50.0         | 43.9           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.581     | 4.571         | 0.010         | 76  | 36391    | 20.0         | 18.0           |       |
| 59 Isopropyl acetate             | 43  | 4.581     | 4.571         | 0.010         | 92  | 114630   | 20.0         | 15.5           |       |
| 60 1,2-Dichloroethane            | 62  | 4.604     | 4.605         | -0.001        | 96  | 64343    | 20.0         | 18.8           |       |
| 61 n-Heptane                     | 57  | 4.650     | 4.650         | 0.000         | 91  | 17575    | 20.0         | 17.4           |       |
| * 62 Fluorobenzene               | 96  | 4.787     | 4.787         | 0.000         | 99  | 431202   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.129     | 5.119         | 0.010         | 95  | 26228    | 500.0        | 485.6          |       |
| 64 Trichloroethene               | 95  | 5.129     | 5.130         | -0.001        | 96  | 52016    | 20.0         | 20.5           |       |
| 65 Methylcyclohexane             | 83  | 5.243     | 5.244         | -0.001        | 92  | 56850    | 20.0         | 18.9           |       |
| 66 Ethyl acrylate                | 55  | 5.266     | 5.267         | -0.001        | 98  | 98128    | 20.0         | 24.3           |       |
| 67 1,2-Dichloropropane           | 63  | 5.414     | 5.415         | -0.001        | 92  | 51032    | 20.0         | 18.4           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.494     | 5.484         | 0.010         | 0   | 24759    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.506     | 5.507         | -0.001        | 88  | 24631    | 40.0         | 39.6           |       |
| 70 1,4-Dioxane                   | 88  | 5.540     | 5.541         | -0.001        | 38  | 13175    | 400.0        | 427.4          |       |
| 71 Dibromomethane                | 93  | 5.551     | 5.541         | 0.010         | 92  | 36661    | 20.0         | 19.9           |       |
| 72 n-Propyl acetate              | 43  | 5.563     | 5.564         | -0.001        | 98  | 62783    | 20.0         | 14.9           |       |
| 73 Dichlorobromomethane          | 83  | 5.700     | 5.701         | -0.001        | 98  | 71731    | 20.0         | 20.1           |       |
| 74 2-Nitropropane                | 41  | 6.031     | 6.032         | -0.001        | 86  | 22789    | 40.0         | 37.7           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.042     | 6.043         | -0.001        | 71  | 23392    | 20.0         | 12.5           |       |
| 76 Epichlorohydrin               | 57  | 6.145     | 6.146         | -0.001        | 99  | 181624   | 400.0        | 897.7          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.191     | 6.192         | -0.001        | 91  | 77976    | 20.0         | 18.9           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.362     | 6.363         | -0.001        | 96  | 210386   | 100.0        | 101.4          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.419     | 6.420         | -0.001        | 100 | 386311   | 50.0         | 46.6           |       |
| 80 Toluene                       | 91  | 6.499     | 6.500         | -0.001        | 93  | 200964   | 20.0         | 19.0           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.864     | 6.865         | -0.001        | 96  | 63806    | 20.0         | 17.0           |       |
| 82 Ethyl methacrylate            | 69  | 6.899     | 6.900         | -0.001        | 89  | 46282    | 20.0         | 13.1           |       |
| 83 1,1,2-Trichloroethane         | 83  | 7.070     | 7.071         | -0.001        | 96  | 42860    | 20.0         | 18.5           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 84 Tetrachloroethene            | 166 | 7.104     | 7.105         | -0.001        | 96  | 60068    | 20.0         | 22.6           |       |
| 85 1,3-Dichloropropane          | 76  | 7.275     | 7.276         | -0.001        | 94  | 72067    | 20.0         | 18.2           |       |
| 86 2-Hexanone                   | 58  | 7.355     | 7.356         | -0.001        | 97  | 77946    | 100.0        | 107.8          |       |
| 87 n-Butyl acetate              | 43  | 7.470     | 7.470         | 0.000         | 98  | 62075    | 20.0         | 14.3           |       |
| 88 Chlorodibromomethane         | 129 | 7.504     | 7.505         | -0.001        | 98  | 63609    | 20.0         | 21.8           |       |
| 89 Ethylene Dibromide           | 107 | 7.652     | 7.653         | -0.001        | 97  | 53153    | 20.0         | 20.1           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.200     | 8.201         | -0.001        | 83  | 347340   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.234     | 8.235         | -0.001        | 97  | 145204   | 20.0         | 20.5           |       |
| 92 Ethylbenzene                 | 106 | 8.337     | 8.338         | -0.001        | 98  | 64996    | 20.0         | 19.2           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.360     | 8.361         | -0.001        | 97  | 55369    | 20.0         | 21.4           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.497     | 8.498         | -0.001        | 0   | 77882    | 20.0         | 19.1           |       |
| 96 o-Xylene                     | 106 | 9.034     | 9.023         | 0.011         | 96  | 75235    | 20.0         | 18.6           |       |
| 95 n-Butyl acrylate             | 73  | 9.034     | 9.035         | -0.001        | 97  | 31294    | 20.0         | 13.8           |       |
| 97 Styrene                      | 104 | 9.068     | 9.069         | -0.001        | 97  | 146276   | 20.0         | 20.0           |       |
| 99 Bromoform                    | 173 | 9.319     | 9.320         | -0.001        | 83  | 46251    | 20.0         | 22.2           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.319     | 9.320         | -0.001        | 91  | 64350    | 20.0         | 11.1           |       |
| 100 Isopropylbenzene            | 105 | 9.456     | 9.457         | -0.001        | 95  | 189838   | 20.0         | 19.6           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.662     | 9.662         | 0.000         | 97  | 144783   | 50.0         | 55.3           |       |
| 102 Bromobenzene                | 156 | 9.799     | 9.788         | 0.011         | 89  | 68843    | 20.0         | 20.0           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.856     | 9.857         | -0.001        | 99  | 70895    | 20.0         | 17.1           |       |
| 104 N-Propylbenzene             | 91  | 9.867     | 9.868         | -0.001        | 100 | 221567   | 20.0         | 18.1           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.890     | 9.891         | -0.001        | 96  | 19253    | 20.0         | 19.1           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.924     | 9.914         | 0.010         | 83  | 16101    | 20.0         | 14.9           | a     |
| 107 2-Chlorotoluene             | 91  | 9.970     | 9.959         | 0.011         | 97  | 172163   | 20.0         | 18.7           |       |
| 108 4-Ethyltoluene              | 105 | 9.970     | 9.971         | -0.001        | 98  | 209304   | 20.0         | 20.1           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.038    | 10.039        | -0.001        | 94  | 164714   | 20.0         | 19.4           |       |
| 110 4-Chlorotoluene             | 91  | 10.073    | 10.073        | 0.000         | 95  | 163919   | 20.0         | 18.7           |       |
| 111 Butyl Methacrylate          | 87  | 10.141    | 10.142        | -0.001        | 90  | 58558    | 20.0         | 14.2           |       |
| 112 tert-Butylbenzene           | 119 | 10.289    | 10.290        | -0.001        | 96  | 128538   | 20.0         | 19.3           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.347    | 10.347        | 0.000         | 96  | 170684   | 20.0         | 17.8           |       |
| 114 sec-Butylbenzene            | 105 | 10.472    | 10.462        | 0.010         | 99  | 178340   | 20.0         | 19.1           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.575    | 10.576        | -0.001        | 92  | 125484   | 20.0         | 20.5           |       |
| 115 4-Isopropyltoluene          | 119 | 10.575    | 10.576        | -0.001        | 98  | 153419   | 20.0         | 15.0           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.632    | 10.633        | -0.001        | 93  | 216734   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.655    | 10.656        | -0.001        | 97  | 131557   | 20.0         | 20.1           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.666    | 10.667        | -0.001        | 97  | 195817   | 20.0         | 19.0           |       |
| 119 Benzyl chloride             | 91  | 10.758    | 10.758        | 0.000         | 100 | 116347   | 20.0         | 16.9           |       |
| 120 2,3-Dihydroindene           | 117 | 10.803    | 10.804        | -0.001        | 94  | 210596   | 20.0         | 20.1           |       |
| 121 p-Diethylbenzene            | 119 | 10.849    | 10.850        | -0.001        | 95  | 90518    | 20.0         | 19.9           |       |
| 122 n-Butylbenzene              | 92  | 10.872    | 10.861        | 0.011         | 98  | 82463    | 20.0         | 19.3           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.917    | 10.907        | 0.010         | 100 | 126020   | 20.0         | 20.9           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.351    | 11.352        | -0.001        | 98  | 144046   | 20.0         | 14.6           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.431    | 11.421        | 0.010         | 89  | 12617    | 20.0         | 19.5           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.511    | 11.501        | 0.010         | 97  | 80922    | 20.0         | 21.4           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.876    | 11.877        | -0.001        | 93  | 70769    | 20.0         | 19.6           |       |
| 128 Hexachlorobutadiene         | 225 | 11.945    | 11.946        | -0.001        | 98  | 29673    | 20.0         | 24.4           |       |
| 129 Naphthalene                 | 128 | 12.036    | 12.037        | -0.001        | 100 | 181736   | 20.0         | 19.2           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.185    | 12.186        | -0.001        | 96  | 67941    | 20.0         | 20.6           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 40.9           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 37.7           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 95.8           |       |

**QC Flag Legend**

## Review Flags

a - User Assigned ID

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00281     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181011-80093.b\\J76117.D

Injection Date: 11-Oct-2018 08:35:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

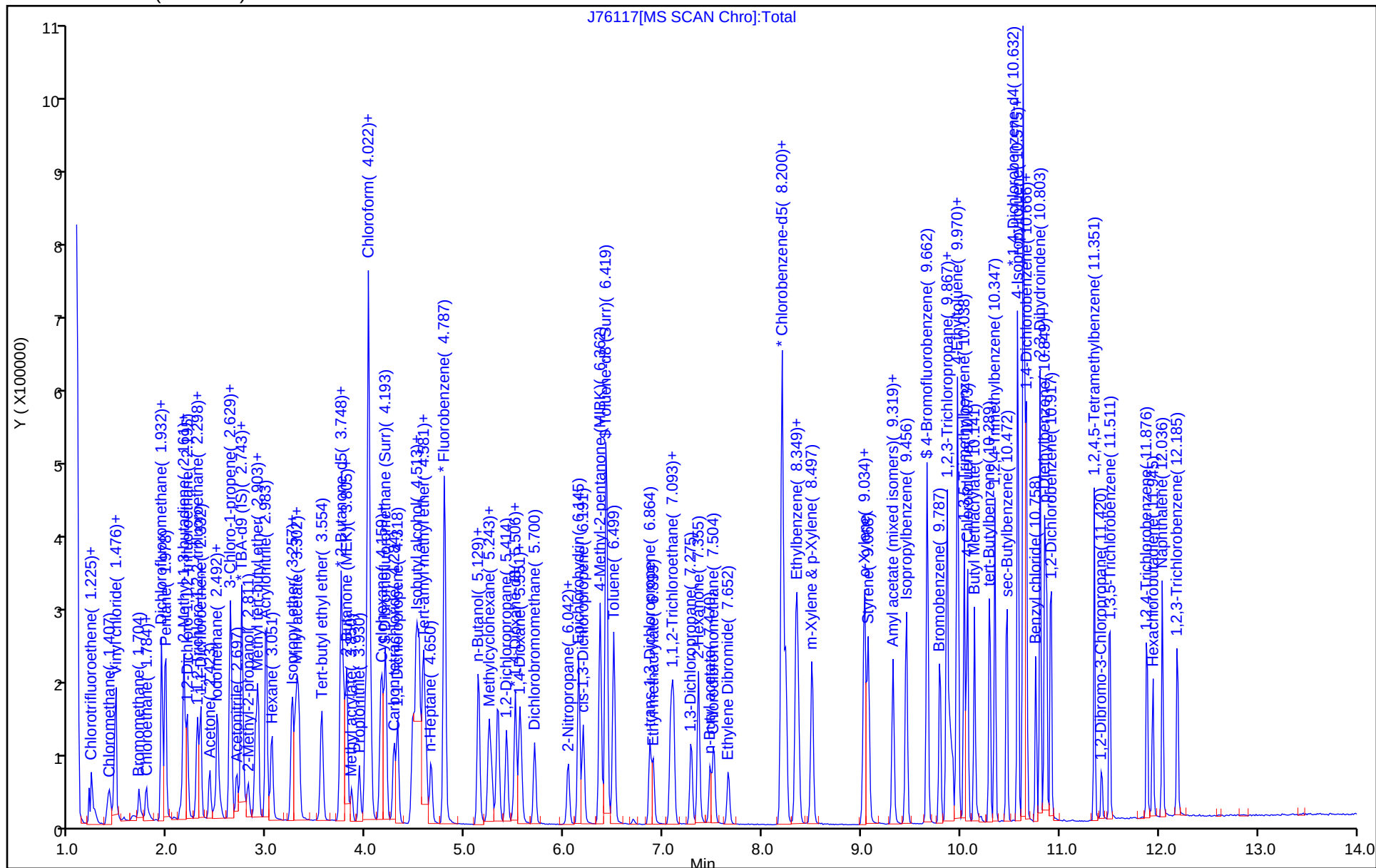
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)





FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 460-558837/4

Matrix: Water Lab File ID: J76039.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5(mL) Date Analyzed: 10/09/2018 20:40

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 19.2   |   | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 16.4   |   | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 18.5   |   | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 17.2   |   | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 18.2   |   | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 18.3   |   | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 17.6   |   | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 113    |   | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 108    |   | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 103    |   | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 109    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 19.4   |   | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 21.5   |   | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 11.4   |   | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 17.5   |   | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 19.7   |   | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 19.9   |   | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 21.7   |   | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 18.7   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 19.6   |   | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 16.1   |   | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 20.0   |   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 18.4   |   | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 19.5   |   | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 19.9   |   | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 20.0   |   | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 21.8   |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 18.7   |   | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 19.4   |   | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 16.6   |   | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 19.0   |   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 17.0   |   | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 37.4   |   | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 460-558837/4  
Matrix: Water Lab File ID: J76039.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/09/2018 20:40  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558837 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 89   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 108  |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\J76039.D  
 Lims ID: LCSD  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 09-Oct-2018 20:40:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCSD  
 Misc. Info.: 460-0080013-004  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181009-80013.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:38:35 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0309

First Level Reviewer: parekhv

Date: 09-Oct-2018 21:22:02

| Compound                      | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|-------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.191        | 1.191            | 0.000            | 92  | 4603     | 20.0            | 10.3              |       |
| 2 Dichlorodifluoromethane     | 85  | 1.214        | 1.214            | 0.000            | 99  | 51779    | 20.0            | 15.3              |       |
| 3 Chloromethane               | 50  | 1.396        | 1.396            | 0.000            | 99  | 63801    | 20.0            | 16.1              |       |
| 4 Vinyl chloride              | 62  | 1.442        | 1.442            | 0.000            | 98  | 63013    | 20.0            | 17.0              |       |
| 5 Butadiene                   | 54  | 1.465        | 1.465            | 0.000            | 95  | 45257    | 20.0            | 14.5              |       |
| 6 Bromomethane                | 94  | 1.682        | 1.682            | 0.000            | 97  | 20767    | 20.0            | 11.4              |       |
| 7 Chloroethane                | 64  | 1.762        | 1.762            | 0.000            | 100 | 33967    | 20.0            | 18.7              |       |
| 9 Trichlorofluoromethane      | 101 | 1.910        | 1.910            | 0.000            | 99  | 80160    | 20.0            | 21.9              |       |
| 8 Dichlorofluoromethane       | 67  | 1.922        | 1.921            | 0.001            | 98  | 111349   | 20.0            | 21.9              |       |
| 10 Pentane                    | 72  | 1.956        | 1.956            | 0.000            | 95  | 7612     | 40.0            | 28.0              |       |
| 11 Ethanol                    | 46  | 2.116        | 2.116            | 0.000            | 93  | 10333    | 800.0           | 764.1             |       |
| 12 Ethyl ether                | 59  | 2.127        | 2.138            | -0.011           | 89  | 32148    | 20.0            | 15.5              |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.138        | 2.150            | -0.012           | 94  | 31898    | 20.0            | 14.1              |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.173        | 2.173            | 0.000            | 92  | 40793    | 20.0            | 20.1              |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.275        | 2.275            | 0.000            | 98  | 41656    | 20.0            | 18.1              |       |
| 16 Acrolein                   | 56  | 2.287        | 2.287            | 0.000            | 95  | 15887    | 40.0            | 39.2              |       |
| 17 1,1-Dichloroethene         | 96  | 2.310        | 2.310            | 0.000            | 95  | 41261    | 20.0            | 18.2              |       |
| 18 Acetone                    | 43  | 2.401        | 2.401            | 0.000            | 87  | 68678    | 100.0           | 109.3             |       |
| 19 Iodomethane                | 142 | 2.447        | 2.447            | 0.000            | 98  | 22612    | 20.0            | 6.24              |       |
| 20 Carbon disulfide           | 76  | 2.470        | 2.469            | 0.001            | 99  | 157443   | 20.0            | 17.5              |       |
| 21 Isopropyl alcohol          | 45  | 2.492        | 2.492            | 0.000            | 98  | 28405    | 200.0           | 185.0             |       |
| 22 3-Chloro-1-propene         | 76  | 2.595        | 2.595            | 0.000            | 93  | 26947    | 20.0            | 17.9              |       |
| 23 Cyclopentene               | 67  | 2.618        | 2.618            | 0.000            | 93  | 94369    | 20.0            | 15.1              |       |
| 24 Methyl acetate             | 43  | 2.618        | 2.618            | 0.000            | 100 | 70196    | 40.0            | 29.1              |       |
| 25 Acetonitrile               | 41  | 2.675        | 2.675            | 0.000            | 98  | 63826    | 200.0           | 186.7             |       |
| 26 Methylene Chloride         | 84  | 2.721        | 2.721            | 0.000            | 87  | 56573    | 20.0            | 19.9              |       |
| * 27 TBA-d9 (IS)              | 65  | 2.732        | 2.732            | 0.000            | 0   | 188770   | 1000.0          | 1000.0            |       |
| 28 2-Methyl-2-propanol        | 59  | 2.789        | 2.789            | 0.000            | 99  | 43801    | 200.0           | 196.8             |       |
| 29 Methyl tert-butyl ether    | 73  | 2.869        | 2.869            | 0.000            | 97  | 119739   | 20.0            | 17.7              |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.892        | 2.892            | 0.000            | 92  | 50515    | 20.0            | 19.4              |       |
| 31 Acrylonitrile              | 53  | 2.972        | 2.972            | 0.000            | 96  | 190991   | 200.0           | 201.0             |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 32 Hexane                        | 57  | 3.029     | 3.029         | 0.000         | 92  | 40492    | 20.0         | 14.9           |       |
| 33 Isopropyl ether               | 45  | 3.235     | 3.234         | 0.000         | 99  | 139036   | 20.0         | 15.3           |       |
| 34 1,1-Dichloroethane            | 63  | 3.257     | 3.257         | 0.000         | 99  | 86119    | 20.0         | 17.2           |       |
| 35 Vinyl acetate                 | 43  | 3.280     | 3.280         | 0.000         | 100 | 196075   | 40.0         | 36.1           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.303     | 3.303         | 0.000         | 88  | 42111    | 20.0         | 18.0           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.531     | 3.531         | 0.000         | 89  | 125090   | 20.0         | 16.4           |       |
| 38 2,2-Dichloropropane           | 79  | 3.725     | 3.714         | 0.011         | 94  | 23615    | 20.0         | 19.8           |       |
| * 39 2-Butanone-d5               | 46  | 3.725     | 3.725         | 0.000         | 0   | 242258   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.748     | 3.748         | 0.000         | 97  | 59635    | 20.0         | 20.0           |       |
| 41 2-Butanone (MEK)              | 72  | 3.783     | 3.782         | 0.001         | 96  | 28408    | 100.0        | 113.4          |       |
| 42 Ethyl acetate                 | 70  | 3.783     | 3.782         | 0.001         | 95  | 10774    | 40.0         | 44.0           |       |
| 43 Methyl acrylate               | 55  | 3.828     | 3.828         | 0.000         | 100 | 43019    | 20.0         | 15.5           |       |
| 44 Propionitrile                 | 54  | 3.908     | 3.908         | 0.000         | 98  | 72641    | 200.0        | 193.6          |       |
| 46 Chlorobromomethane            | 128 | 3.965     | 3.965         | 0.000         | 85  | 31714    | 20.0         | 21.7           |       |
| 45 Tetrahydrofuran               | 72  | 3.977     | 3.976         | 0.001         | 88  | 11580    | 40.0         | 45.3           |       |
| 47 Methacrylonitrile             | 67  | 3.999     | 3.999         | 0.000         | 91  | 216097   | 200.0        | 182.3          |       |
| 48 Chloroform                    | 83  | 4.022     | 4.022         | 0.000         | 99  | 89765    | 20.0         | 19.6           |       |
| 49 Cyclohexane                   | 84  | 4.125     | 4.125         | 0.000         | 90  | 52179    | 20.0         | 17.4           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.148     | 4.148         | 0.000         | 98  | 70107    | 20.0         | 19.2           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.171     | 4.171         | 0.000         | 98  | 117542   | 50.0         | 49.5           |       |
| 52 Carbon tetrachloride          | 117 | 4.262     | 4.262         | 0.000         | 96  | 62914    | 20.0         | 19.7           |       |
| 53 1,1-Dichloropropene           | 75  | 4.296     | 4.296         | 0.000         | 96  | 55691    | 20.0         | 17.0           |       |
| 54 Isooctane                     | 57  | 4.445     | 4.445         | 0.000         | 94  | 70239    | 20.0         | 15.7           |       |
| 58 Isobutyl alcohol              | 43  | 4.456     | 4.456         | 0.000         | 92  | 56227    | 500.0        | 473.0          |       |
| 55 Benzene                       | 78  | 4.479     | 4.479         | 0.000         | 95  | 205663   | 20.0         | 19.4           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.513     | 4.513         | 0.000         | 0   | 114776   | 50.0         | 44.3           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.559     | 4.559         | 0.000         | 82  | 37093    | 20.0         | 18.0           |       |
| 59 Isopropyl acetate             | 43  | 4.559     | 4.559         | 0.000         | 94  | 118352   | 20.0         | 15.6           |       |
| 60 1,2-Dichloroethane            | 62  | 4.582     | 4.582         | 0.000         | 97  | 64245    | 20.0         | 18.3           |       |
| 61 n-Heptane                     | 57  | 4.627     | 4.627         | 0.000         | 92  | 16313    | 20.0         | 15.8           |       |
| * 62 Fluorobenzene               | 96  | 4.764     | 4.764         | 0.000         | 99  | 440937   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.107     | 5.107         | 0.000         | 92  | 26201    | 500.0        | 491.7          |       |
| 64 Trichloroethene               | 95  | 5.107     | 5.107         | 0.000         | 96  | 49231    | 20.0         | 19.0           |       |
| 65 Methylcyclohexane             | 83  | 5.221     | 5.221         | 0.000         | 91  | 49939    | 20.0         | 16.3           |       |
| 66 Ethyl acrylate                | 55  | 5.244     | 5.244         | 0.000         | 98  | 94137    | 20.0         | 22.8           |       |
| 67 1,2-Dichloropropane           | 63  | 5.392     | 5.392         | 0.000         | 91  | 49982    | 20.0         | 17.6           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.472     | 5.472         | 0.000         | 0   | 25705    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.484     | 5.483         | 0.001         | 89  | 24119    | 40.0         | 37.9           |       |
| 70 1,4-Dioxane                   | 88  | 5.518     | 5.518         | 0.000         | 44  | 12891    | 400.0        | 402.8          |       |
| 71 Dibromomethane                | 93  | 5.518     | 5.529         | -0.011        | 97  | 37309    | 20.0         | 19.8           |       |
| 72 n-Propyl acetate              | 43  | 5.541     | 5.541         | 0.000         | 97  | 62911    | 20.0         | 14.6           |       |
| 73 Dichlorobromomethane          | 83  | 5.678     | 5.678         | 0.000         | 99  | 71361    | 20.0         | 19.6           |       |
| 74 2-Nitropropane                | 41  | 6.009     | 6.009         | 0.000         | 81  | 22843    | 40.0         | 38.3           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.020     | 6.020         | 0.000         | 75  | 23695    | 20.0         | 12.4           |       |
| 76 Epichlorohydrin               | 57  | 6.123     | 6.123         | 0.000         | 100 | 185262   | 400.0        | 928.1          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.169     | 6.168         | 0.001         | 90  | 78017    | 20.0         | 18.4           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.340     | 6.340         | 0.000         | 97  | 211511   | 100.0        | 103.3          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.397     | 6.397         | 0.000         | 100 | 401175   | 50.0         | 47.2           |       |
| 80 Toluene                       | 91  | 6.477     | 6.477         | 0.000         | 93  | 202567   | 20.0         | 18.7           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.842     | 6.842         | 0.000         | 96  | 63978    | 20.0         | 16.6           |       |
| 82 Ethyl methacrylate            | 69  | 6.876     | 6.876         | 0.000         | 89  | 46675    | 20.0         | 13.0           |       |
| 83 1,1,2-Trichloroethane         | 83  | 7.048     | 7.048         | 0.000         | 96  | 43842    | 20.0         | 18.5           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 84 Tetrachloroethene            | 166 | 7.071     | 7.082         | -0.011        | 98  | 59463    | 20.0         | 21.8           |       |
| 85 1,3-Dichloropropane          | 76  | 7.253     | 7.253         | 0.000         | 93  | 73718    | 20.0         | 18.1           |       |
| 86 2-Hexanone                   | 58  | 7.333     | 7.333         | 0.000         | 96  | 76943    | 100.0        | 107.8          |       |
| 87 n-Butyl acetate              | 43  | 7.447     | 7.447         | 0.000         | 98  | 61744    | 20.0         | 13.9           |       |
| 88 Chlorodibromomethane         | 129 | 7.482     | 7.481         | 0.001         | 98  | 62206    | 20.0         | 20.8           |       |
| 89 Ethylene Dibromide           | 107 | 7.630     | 7.630         | 0.000         | 100 | 53844    | 20.0         | 19.9           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.178     | 8.178         | 0.000         | 83  | 356203   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.212     | 8.212         | 0.000         | 98  | 144040   | 20.0         | 19.9           |       |
| 92 Ethylbenzene                 | 106 | 8.315     | 8.315         | 0.000         | 98  | 67808    | 20.0         | 19.5           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.338     | 8.338         | 0.000         | 97  | 54508    | 20.0         | 20.5           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.475     | 8.475         | 0.000         | 0   | 80141    | 20.0         | 19.1           |       |
| 96 o-Xylene                     | 106 | 9.000     | 9.000         | 0.000         | 95  | 75656    | 20.0         | 18.3           |       |
| 95 n-Butyl acrylate             | 73  | 9.011     | 9.011         | 0.000         | 98  | 31462    | 20.0         | 13.5           |       |
| 97 Styrene                      | 104 | 9.046     | 9.046         | 0.000         | 96  | 149814   | 20.0         | 20.0           |       |
| 99 Bromoform                    | 173 | 9.297     | 9.297         | 0.000         | 98  | 46000    | 20.0         | 21.5           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.297     | 9.297         | 0.000         | 91  | 63982    | 20.0         | 10.6           |       |
| 100 Isopropylbenzene            | 105 | 9.434     | 9.434         | 0.000         | 95  | 191348   | 20.0         | 19.3           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.651     | 9.651         | 0.000         | 97  | 144657   | 50.0         | 53.9           |       |
| 102 Bromobenzene                | 156 | 9.776     | 9.776         | 0.000         | 88  | 71610    | 20.0         | 19.9           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.845     | 9.845         | 0.000         | 99  | 70831    | 20.0         | 16.4           |       |
| 104 N-Propylbenzene             | 91  | 9.856     | 9.856         | 0.000         | 100 | 219616   | 20.0         | 17.2           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.879     | 9.879         | 0.000         | 98  | 18335    | 20.0         | 17.4           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.902     | 9.902         | 0.000         | 78  | 16509    | 20.0         | 14.6           |       |
| 107 2-Chlorotoluene             | 91  | 9.948     | 9.947         | 0.001         | 97  | 174002   | 20.0         | 18.1           |       |
| 108 4-Ethyltoluene              | 105 | 9.959     | 9.959         | 0.000         | 98  | 210890   | 20.0         | 19.4           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.028    | 10.027        | 0.001         | 94  | 166515   | 20.0         | 18.8           |       |
| 110 4-Chlorotoluene             | 91  | 10.050    | 10.050        | 0.000         | 96  | 168620   | 20.0         | 18.4           |       |
| 111 Butyl Methacrylate          | 87  | 10.130    | 10.130        | 0.000         | 88  | 60689    | 20.0         | 14.2           |       |
| 112 tert-Butylbenzene           | 119 | 10.279    | 10.279        | 0.000         | 96  | 127781   | 20.0         | 18.4           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.336    | 10.336        | 0.000         | 96  | 178058   | 20.0         | 17.8           |       |
| 114 sec-Butylbenzene            | 105 | 10.450    | 10.450        | 0.000         | 99  | 178165   | 20.0         | 18.3           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.564    | 10.564        | 0.000         | 90  | 132203   | 20.0         | 20.7           |       |
| 115 4-Isopropyltoluene          | 119 | 10.564    | 10.564        | 0.000         | 98  | 163823   | 20.0         | 15.3           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.621    | 10.621        | 0.000         | 92  | 226016   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.633    | 10.632        | 0.001         | 96  | 132453   | 20.0         | 19.4           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.655    | 10.655        | 0.000         | 97  | 195523   | 20.0         | 18.2           |       |
| 119 Benzyl chloride             | 91  | 10.747    | 10.747        | 0.000         | 100 | 122463   | 20.0         | 17.1           |       |
| 120 2,3-Dihydroindene           | 117 | 10.792    | 10.792        | 0.000         | 95  | 207212   | 20.0         | 19.0           |       |
| 121 p-Diethylbenzene            | 119 | 10.838    | 10.838        | 0.000         | 93  | 92271    | 20.0         | 19.4           |       |
| 122 n-Butylbenzene              | 92  | 10.850    | 10.849        | 0.001         | 95  | 85590    | 20.0         | 19.2           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.895    | 10.895        | 0.000         | 99  | 131128   | 20.0         | 20.9           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.340    | 11.340        | 0.000         | 98  | 145979   | 20.0         | 14.2           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.409    | 11.420        | -0.011        | 93  | 12731    | 20.0         | 18.9           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.489    | 11.500        | -0.011        | 97  | 84456    | 20.0         | 21.4           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.866    | 11.877        | -0.011        | 93  | 73565    | 20.0         | 19.5           |       |
| 128 Hexachlorobutadiene         | 225 | 11.923    | 11.934        | -0.011        | 97  | 29786    | 20.0         | 23.4           |       |
| 129 Naphthalene                 | 128 | 12.025    | 12.025        | 0.000         | 100 | 188194   | 20.0         | 19.1           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.174    | 12.185        | -0.011        | 95  | 69566    | 20.0         | 20.3           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 39.4           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 37.4           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 95.0           |       |

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00280     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181009-80013.b\\J76039.D

Injection Date: 09-Oct-2018 20:40:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: LCSD

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

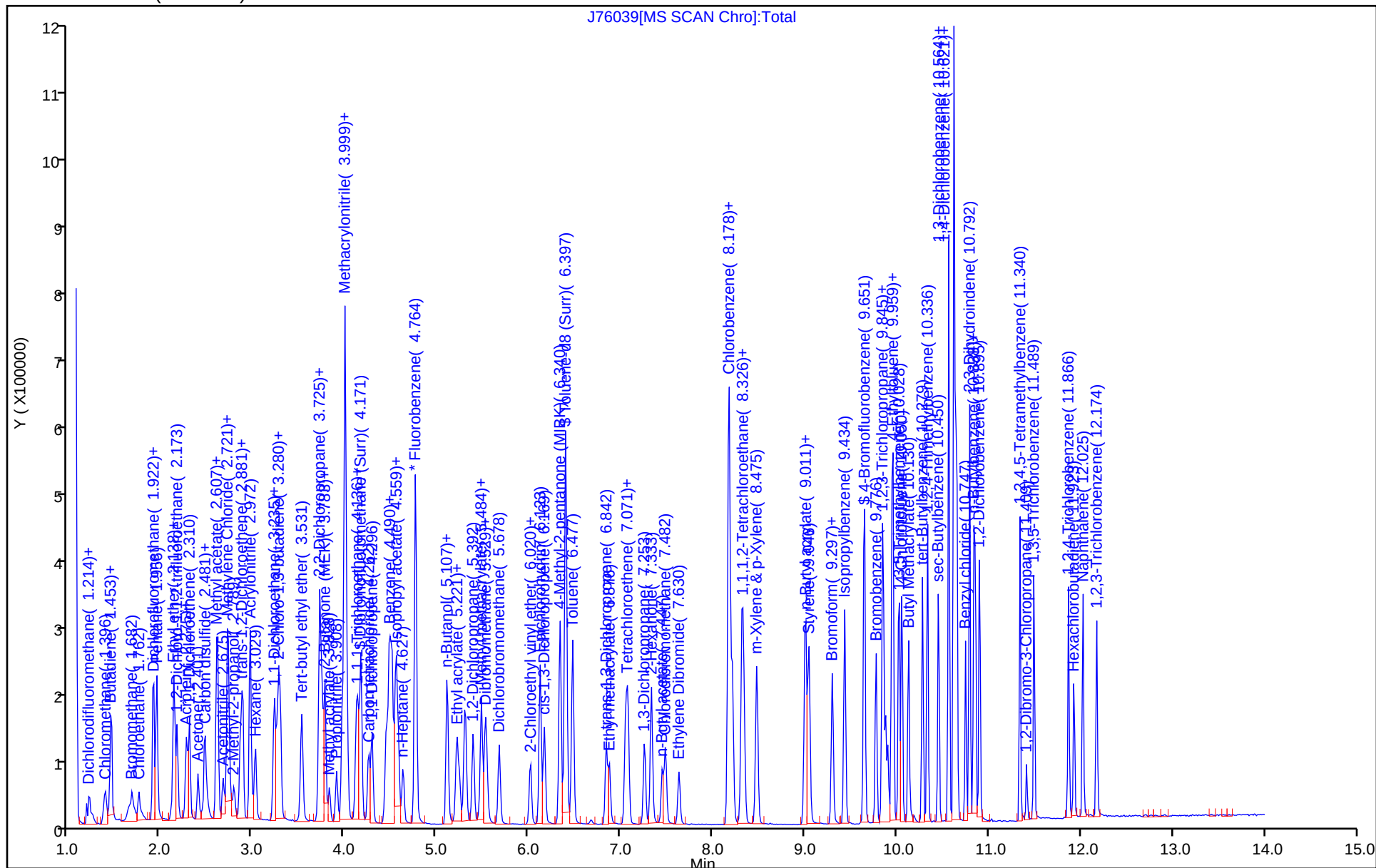
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 460-558952/5

Matrix: Water Lab File ID: J76068.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5(mL) Date Analyzed: 10/10/2018 09:11

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 558952 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 20.2   |   | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 17.1   |   | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 18.5   |   | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 17.8   |   | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 20.0   |   | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 18.4   |   | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 18.2   |   | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 121    |   | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 113    |   | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 105    |   | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 109    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 19.0   |   | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 22.5   |   | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 15.4   |   | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 18.4   |   | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 21.1   |   | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 20.4   |   | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 22.0   |   | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 20.2   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 19.4   |   | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 16.6   |   | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 19.9   |   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 18.3   |   | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 19.6   |   | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 18.8   |   | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 19.6   |   | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 23.5   |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 19.1   |   | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 20.5   |   | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 16.7   |   | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 19.8   |   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 18.7   |   | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 37.7   |   | 2.0 | 0.65 |



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 460-558952/5  
Matrix: Water Lab File ID: J76068.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 09:11  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 558952 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 84   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 107  |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 94   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\J76068.D  
 Lims ID: LCSD  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 10-Oct-2018 09:11:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCSD  
 Misc. Info.: 460-0080037-005  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80037.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 10-Oct-2018 16:38:10 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0318

First Level Reviewer: moroneyc

Date: 10-Oct-2018 09:33:36

| Compound                      | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.191     | 1.191         | 0.000         | 93  | 7458     | 20.0         | 16.7           |       |
| 2 Dichlorodifluoromethane     | 85  | 1.225     | 1.225         | 0.000         | 99  | 73994    | 20.0         | 21.9           |       |
| 3 Chloromethane               | 50  | 1.397     | 1.396         | 0.001         | 98  | 65755    | 20.0         | 16.6           |       |
| 4 Vinyl chloride              | 62  | 1.442     | 1.442         | 0.000         | 99  | 69391    | 20.0         | 18.7           |       |
| 5 Butadiene                   | 54  | 1.465     | 1.465         | 0.000         | 96  | 52591    | 20.0         | 16.9           |       |
| 6 Bromomethane                | 94  | 1.694     | 1.693         | 0.001         | 98  | 27606    | 20.0         | 15.4           |       |
| 7 Chloroethane                | 64  | 1.762     | 1.773         | -0.011        | 99  | 36824    | 20.0         | 20.2           |       |
| 9 Trichlorofluoromethane      | 101 | 1.922     | 1.921         | 0.001         | 99  | 91913    | 20.0         | 25.2           |       |
| 8 Dichlorofluoromethane       | 67  | 1.922     | 1.921         | 0.001         | 86  | 112137   | 20.0         | 22.1           |       |
| 10 Pentane                    | 72  | 1.956     | 1.956         | 0.000         | 96  | 10548    | 40.0         | 37.4           |       |
| 11 Ethanol                    | 46  | 2.105     | 2.104         | 0.001         | 71  | 10367    | 800.0        | 739.7          | a     |
| 12 Ethyl ether                | 59  | 2.139     | 2.138         | 0.001         | 92  | 33262    | 20.0         | 16.0           |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.150     | 2.150         | 0.000         | 97  | 36437    | 20.0         | 16.1           |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.173     | 2.173         | 0.000         | 95  | 45156    | 20.0         | 22.2           |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.276     | 2.275         | 0.001         | 99  | 49420    | 20.0         | 21.4           |       |
| 16 Acrolein                   | 56  | 2.287     | 2.287         | 0.000         | 95  | 16336    | 40.0         | 38.8           |       |
| 17 1,1-Dichloroethene         | 96  | 2.310     | 2.310         | 0.000         | 98  | 45324    | 20.0         | 20.0           |       |
| 18 Acetone                    | 43  | 2.401     | 2.401         | 0.000         | 87  | 68777    | 100.0        | 108.6          |       |
| 19 Iodomethane                | 142 | 2.458     | 2.458         | 0.000         | 96  | 26438    | 20.0         | 7.30           |       |
| 20 Carbon disulfide           | 76  | 2.481     | 2.481         | 0.000         | 100 | 165541   | 20.0         | 18.4           |       |
| 21 Isopropyl alcohol          | 45  | 2.493     | 2.492         | 0.001         | 99  | 30985    | 200.0        | 194.8          |       |
| 22 3-Chloro-1-propene         | 76  | 2.607     | 2.606         | 0.001         | 92  | 28338    | 20.0         | 18.8           |       |
| 23 Cyclopentene               | 67  | 2.618     | 2.618         | 0.000         | 92  | 104768   | 20.0         | 16.8           |       |
| 24 Methyl acetate             | 43  | 2.618     | 2.618         | 0.000         | 99  | 71558    | 40.0         | 29.7           |       |
| 25 Acetonitrile               | 41  | 2.675     | 2.675         | 0.000         | 100 | 62778    | 200.0        | 177.2          |       |
| 26 Methylene Chloride         | 84  | 2.721     | 2.732         | -0.011        | 54  | 53584    | 20.0         | 18.8           |       |
| * 27 TBA-d9 (IS)              | 65  | 2.732     | 2.732         | 0.000         | 0   | 195638   | 1000.0       | 1000.0         |       |
| 28 2-Methyl-2-propanol        | 59  | 2.790     | 2.789         | 0.001         | 99  | 45479    | 200.0        | 197.2          |       |
| 29 Methyl tert-butyl ether    | 73  | 2.869     | 2.869         | 0.000         | 97  | 124826   | 20.0         | 18.5           |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.892     | 2.892         | 0.000         | 92  | 53312    | 20.0         | 20.5           |       |
| 31 Acrylonitrile              | 53  | 2.972     | 2.972         | 0.000         | 95  | 189353   | 200.0        | 192.3          |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 32 Hexane                        | 57  | 3.029     | 3.029         | 0.000         | 92  | 46792    | 20.0         | 17.2           |       |
| 33 Isopropyl ether               | 45  | 3.235     | 3.234         | 0.001         | 97  | 138025   | 20.0         | 15.2           |       |
| 34 1,1-Dichloroethane            | 63  | 3.269     | 3.269         | 0.000         | 100 | 88975    | 20.0         | 17.8           |       |
| 35 Vinyl acetate                 | 43  | 3.280     | 3.280         | 0.000         | 100 | 195516   | 40.0         | 36.0           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.303     | 3.303         | 0.000         | 89  | 44365    | 20.0         | 19.0           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.532     | 3.531         | 0.001         | 89  | 127872   | 20.0         | 16.8           |       |
| 38 2,2-Dichloropropane           | 79  | 3.726     | 3.725         | 0.001         | 93  | 23759    | 20.0         | 19.9           |       |
| * 39 2-Butanone-d5               | 46  | 3.726     | 3.725         | 0.001         | 0   | 244204   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.760     | 3.759         | 0.001         | 98  | 59328    | 20.0         | 19.9           |       |
| 41 2-Butanone (MEK)              | 72  | 3.783     | 3.782         | 0.001         | 96  | 30669    | 100.0        | 121.5          |       |
| 42 Ethyl acetate                 | 70  | 3.783     | 3.782         | 0.001         | 95  | 11403    | 40.0         | 46.2           |       |
| 43 Methyl acrylate               | 55  | 3.840     | 3.828         | 0.012         | 100 | 43216    | 20.0         | 15.5           |       |
| 44 Propionitrile                 | 54  | 3.908     | 3.908         | 0.000         | 98  | 73176    | 200.0        | 188.2          |       |
| 46 Chlorobromomethane            | 128 | 3.977     | 3.976         | 0.001         | 82  | 32096    | 20.0         | 22.0           |       |
| 45 Tetrahydrofuran               | 72  | 3.977     | 3.976         | 0.001         | 93  | 12056    | 40.0         | 46.8           |       |
| 47 Methacrylonitrile             | 67  | 4.000     | 3.999         | 0.001         | 91  | 222143   | 200.0        | 187.5          |       |
| 48 Chloroform                    | 83  | 4.023     | 4.022         | 0.001         | 99  | 88663    | 20.0         | 19.4           |       |
| 49 Cyclohexane                   | 84  | 4.125     | 4.125         | 0.000         | 91  | 59681    | 20.0         | 19.9           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.148     | 4.148         | 0.000         | 98  | 73698    | 20.0         | 20.2           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.182     | 4.182         | 0.000         | 97  | 118403   | 50.0         | 49.9           |       |
| 52 Carbon tetrachloride          | 117 | 4.262     | 4.262         | 0.000         | 99  | 67544    | 20.0         | 21.1           |       |
| 53 1,1-Dichloropropene           | 75  | 4.297     | 4.296         | 0.001         | 97  | 59314    | 20.0         | 18.1           |       |
| 54 Isooctane                     | 57  | 4.456     | 4.456         | 0.000         | 93  | 84518    | 20.0         | 18.9           |       |
| 55 Benzene                       | 78  | 4.491     | 4.490         | 0.001         | 94  | 201656   | 20.0         | 19.0           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.514     | 4.513         | 0.001         | 0   | 109099   | 50.0         | 42.1           |       |
| 58 Isobutyl alcohol              | 43  | 4.456     | 4.559         | -0.103        | 93  | 61163    | 500.0        | 496.5          | a     |
| 57 Tert-amyl methyl ether        | 87  | 4.559     | 4.559         | 0.000         | 78  | 37154    | 20.0         | 18.0           |       |
| 59 Isopropyl acetate             | 43  | 4.559     | 4.559         | 0.000         | 93  | 123045   | 20.0         | 16.2           |       |
| 60 1,2-Dichloroethane            | 62  | 4.582     | 4.581         | 0.001         | 96  | 64332    | 20.0         | 18.4           |       |
| 61 n-Heptane                     | 57  | 4.639     | 4.639         | 0.000         | 92  | 19586    | 20.0         | 19.0           |       |
| * 62 Fluorobenzene               | 96  | 4.776     | 4.776         | 0.000         | 100 | 440767   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.107     | 5.107         | 0.000         | 87  | 26479    | 500.0        | 479.4          |       |
| 64 Trichloroethene               | 95  | 5.119     | 5.118         | 0.001         | 96  | 51211    | 20.0         | 19.8           |       |
| 65 Methylcyclohexane             | 83  | 5.221     | 5.221         | 0.000         | 94  | 60397    | 20.0         | 19.6           |       |
| 66 Ethyl acrylate                | 55  | 5.244     | 5.244         | 0.000         | 98  | 101472   | 20.0         | 24.6           |       |
| 67 1,2-Dichloropropane           | 63  | 5.393     | 5.392         | 0.001         | 92  | 51664    | 20.0         | 18.2           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.473     | 5.472         | 0.001         | 0   | 26593    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.484     | 5.483         | 0.001         | 87  | 27101    | 40.0         | 42.6           |       |
| 70 1,4-Dioxane                   | 88  | 5.530     | 5.529         | 0.001         | 41  | 14086    | 400.0        | 425.4          |       |
| 71 Dibromomethane                | 93  | 5.530     | 5.529         | 0.001         | 93  | 37769    | 20.0         | 20.0           |       |
| 72 n-Propyl acetate              | 43  | 5.541     | 5.540         | 0.001         | 98  | 65808    | 20.0         | 15.3           |       |
| 73 Dichlorobromomethane          | 83  | 5.678     | 5.677         | 0.001         | 99  | 70721    | 20.0         | 19.4           |       |
| 74 2-Nitropropane                | 41  | 6.021     | 6.020         | 0.001         | 82  | 21898    | 40.0         | 35.4           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.021     | 6.020         | 0.001         | 71  | 24580    | 20.0         | 12.8           |       |
| 76 Epichlorohydrin               | 57  | 6.123     | 6.123         | 0.000         | 99  | 189291   | 400.0        | 940.7          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.169     | 6.168         | 0.001         | 91  | 77341    | 20.0         | 18.3           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.340     | 6.340         | 0.000         | 96  | 216619   | 100.0        | 104.9          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.409     | 6.408         | 0.001         | 99  | 400338   | 50.0         | 47.2           |       |
| 80 Toluene                       | 91  | 6.477     | 6.477         | 0.000         | 94  | 206713   | 20.0         | 19.1           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.843     | 6.842         | 0.001         | 97  | 64361    | 20.0         | 16.7           |       |
| 82 Ethyl methacrylate            | 69  | 6.877     | 6.876         | 0.001         | 89  | 48809    | 20.0         | 13.6           |       |
| 83 1,1,2-Trichloroethane         | 83  | 7.059     | 7.059         | 0.000         | 96  | 43835    | 20.0         | 18.5           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 84 Tetrachloroethene            | 166 | 7.082     | 7.082         | 0.000         | 96  | 63924    | 20.0         | 23.5           |       |
| 85 1,3-Dichloropropane          | 76  | 7.265     | 7.264         | 0.001         | 93  | 71118    | 20.0         | 17.5           |       |
| 86 2-Hexanone                   | 58  | 7.333     | 7.333         | 0.000         | 96  | 81170    | 100.0        | 112.7          |       |
| 87 n-Butyl acetate              | 43  | 7.448     | 7.459         | -0.010        | 98  | 65496    | 20.0         | 14.7           |       |
| 88 Chlorodibromomethane         | 129 | 7.493     | 7.493         | 0.000         | 98  | 63465    | 20.0         | 21.2           |       |
| 89 Ethylene Dibromide           | 107 | 7.630     | 7.641         | -0.011        | 99  | 52013    | 20.0         | 19.2           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.178     | 8.178         | 0.000         | 84  | 355921   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.213     | 8.212         | 0.001         | 97  | 147793   | 20.0         | 20.4           |       |
| 92 Ethylbenzene                 | 106 | 8.315     | 8.326         | -0.011        | 98  | 67980    | 20.0         | 19.6           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.338     | 8.338         | 0.000         | 97  | 56338    | 20.0         | 21.2           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.487     | 8.486         | 0.001         | 0   | 79785    | 20.0         | 19.1           |       |
| 96 o-Xylene                     | 106 | 9.012     | 9.011         | 0.001         | 96  | 77332    | 20.0         | 18.7           |       |
| 95 n-Butyl acrylate             | 73  | 9.012     | 9.023         | -0.011        | 98  | 32452    | 20.0         | 13.9           |       |
| 97 Styrene                      | 104 | 9.046     | 9.045         | 0.001         | 96  | 146839   | 20.0         | 19.6           |       |
| 99 Bromoform                    | 173 | 9.297     | 9.297         | 0.000         | 96  | 48137    | 20.0         | 22.5           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.297     | 9.297         | 0.000         | 91  | 64470    | 20.0         | 10.8           |       |
| 100 Isopropylbenzene            | 105 | 9.434     | 9.434         | 0.000         | 95  | 192380   | 20.0         | 19.4           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.651     | 9.651         | 0.000         | 97  | 143422   | 50.0         | 53.4           |       |
| 102 Bromobenzene                | 156 | 9.777     | 9.776         | 0.001         | 88  | 70530    | 20.0         | 19.8           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.845     | 9.845         | 0.000         | 99  | 73242    | 20.0         | 17.1           |       |
| 104 N-Propylbenzene             | 91  | 9.857     | 9.856         | 0.001         | 100 | 222672   | 20.0         | 17.6           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.879     | 9.879         | 0.000         | 96  | 19054    | 20.0         | 18.2           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.902     | 9.902         | 0.000         | 76  | 17536    | 20.0         | 15.7           |       |
| 107 2-Chlorotoluene             | 91  | 9.948     | 9.947         | 0.001         | 97  | 173971   | 20.0         | 18.3           |       |
| 108 4-Ethyltoluene              | 105 | 9.959     | 9.959         | 0.000         | 98  | 205642   | 20.0         | 19.1           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.028    | 10.027        | 0.001         | 94  | 167781   | 20.0         | 19.1           |       |
| 110 4-Chlorotoluene             | 91  | 10.062    | 10.062        | 0.000         | 95  | 167602   | 20.0         | 18.5           |       |
| 111 Butyl Methacrylate          | 87  | 10.131    | 10.130        | 0.001         | 87  | 61299    | 20.0         | 14.4           |       |
| 112 tert-Butylbenzene           | 119 | 10.279    | 10.278        | 0.001         | 96  | 135734   | 20.0         | 19.7           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.336    | 10.336        | 0.000         | 96  | 176489   | 20.0         | 17.8           |       |
| 114 sec-Butylbenzene            | 105 | 10.450    | 10.461        | -0.011        | 100 | 186088   | 20.0         | 19.3           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.564    | 10.564        | 0.000         | 93  | 133861   | 20.0         | 21.1           |       |
| 115 4-Isopropyltoluene          | 119 | 10.564    | 10.564        | 0.000         | 98  | 165493   | 20.0         | 15.6           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.621    | 10.621        | 0.000         | 92  | 224053   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.644    | 10.644        | 0.000         | 97  | 132806   | 20.0         | 19.7           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.656    | 10.655        | 0.001         | 97  | 200057   | 20.0         | 18.8           |       |
| 119 Benzyl chloride             | 91  | 10.747    | 10.747        | 0.000         | 100 | 125692   | 20.0         | 17.7           |       |
| 120 2,3-Dihydroindene           | 117 | 10.793    | 10.792        | 0.001         | 94  | 214540   | 20.0         | 19.8           |       |
| 121 p-Diethylbenzene            | 119 | 10.838    | 10.838        | 0.000         | 96  | 96122    | 20.0         | 20.4           |       |
| 122 n-Butylbenzene              | 92  | 10.861    | 10.861        | 0.000         | 98  | 86916    | 20.0         | 19.6           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.907    | 10.906        | 0.001         | 100 | 130276   | 20.0         | 20.9           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.341    | 11.340        | 0.001         | 98  | 148233   | 20.0         | 14.5           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.421    | 11.420        | 0.001         | 89  | 13812    | 20.0         | 20.6           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.501    | 11.500        | 0.001         | 96  | 85849    | 20.0         | 21.9           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.866    | 11.865        | 0.001         | 94  | 74426    | 20.0         | 19.9           |       |
| 128 Hexachlorobutadiene         | 225 | 11.934    | 11.934        | 0.000         | 98  | 31523    | 20.0         | 25.1           |       |
| 129 Naphthalene                 | 128 | 12.026    | 12.025        | 0.001         | 100 | 197591   | 20.0         | 20.2           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.174    | 12.174        | 0.000         | 95  | 71292    | 20.0         | 20.9           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 40.4           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 37.7           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 95.5           |       |

**QC Flag Legend**

## Review Flags

a - User Assigned ID

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00281     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80037.b\\J76068.D

Injection Date: 10-Oct-2018 09:11:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

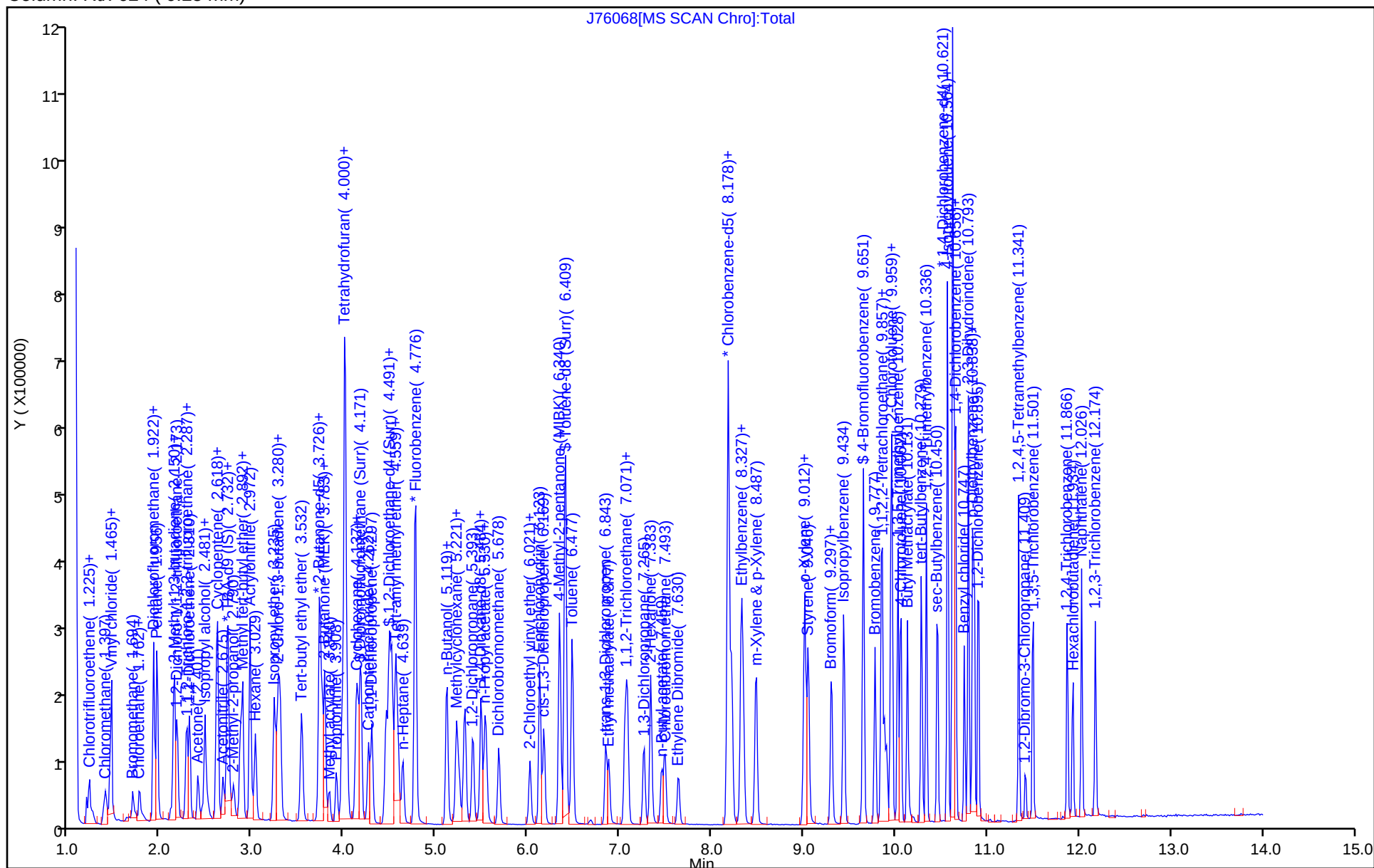
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 460-559112/5

Matrix: Water Lab File ID: J76068.D

Analysis Method: 8260C Date Collected: \_\_\_\_\_

Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 20:35

Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1

Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)

% Moisture: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 559112 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 21.5   |   | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 18.4   |   | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 20.6   |   | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 19.5   |   | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 20.3   |   | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 19.8   |   | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 19.6   |   | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 121    |   | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 117    |   | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 111    |   | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 115    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 21.2   |   | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 23.7   |   | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 12.5   |   | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 19.3   |   | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 22.0   |   | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 22.0   |   | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 24.0   |   | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 20.0   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 21.3   |   | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 16.4   |   | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 22.1   |   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 20.2   |   | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 21.6   |   | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 21.5   |   | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 22.1   |   | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 24.6   |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 20.7   |   | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 21.3   |   | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 18.4   |   | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 20.7   |   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 17.7   |   | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 41.5   |   | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 460-559112/5  
Matrix: Water Lab File ID: J76068.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/10/2018 20:35  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 559112 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 86   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 109  |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 99   |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 95   |   | 80-120 |



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\J76068.D  
 Lims ID: LCSD  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 10-Oct-2018 20:35:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCSD  
 Misc. Info.: 460-0080066-005  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181010-80066.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 08:26:43 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0317

First Level Reviewer: moroneyc

Date: 11-Oct-2018 08:20:43

| Compound                      | Sig | RT<br>(min.) | Exp RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/l | OnCol Amt<br>ug/l | Flags |
|-------------------------------|-----|--------------|------------------|------------------|-----|----------|-----------------|-------------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.193        | 1.193            | 0.000            | 95  | 6352     | 20.0            | 14.4              |       |
| 2 Dichlorodifluoromethane     | 85  | 1.227        | 1.228            | -0.001           | 99  | 60792    | 20.0            | 18.2              |       |
| 3 Chloromethane               | 50  | 1.398        | 1.399            | -0.001           | 99  | 64614    | 20.0            | 16.4              |       |
| 4 Vinyl chloride              | 62  | 1.444        | 1.445            | -0.001           | 99  | 64763    | 20.0            | 17.7              |       |
| 5 Butadiene                   | 54  | 1.467        | 1.467            | 0.000            | 96  | 47573    | 20.0            | 15.4              |       |
| 6 Bromomethane                | 94  | 1.695        | 1.696            | -0.001           | 97  | 22481    | 20.0            | 12.5              |       |
| 7 Chloroethane                | 64  | 1.764        | 1.764            | 0.000            | 100 | 36132    | 20.0            | 20.0              |       |
| 9 Trichlorofluoromethane      | 101 | 1.923        | 1.924            | -0.001           | 99  | 80229    | 20.0            | 22.2              |       |
| 8 Dichlorofluoromethane       | 67  | 1.923        | 1.924            | -0.001           | 87  | 111491   | 20.0            | 22.1              |       |
| 10 Pentane                    | 72  | 1.958        | 1.958            | 0.000            | 95  | 10316    | 40.0            | 37.0              |       |
| 11 Ethanol                    | 46  | 2.118        | 2.118            | 0.000            | 95  | 11126    | 800.0           | 802.1             |       |
| 12 Ethyl ether                | 59  | 2.140        | 2.141            | -0.001           | 97  | 38557    | 20.0            | 18.8              |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.152        | 2.153            | 0.000            | 96  | 34992    | 20.0            | 15.6              |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.186        | 2.187            | -0.001           | 91  | 44320    | 20.0            | 22.0              |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.289        | 2.290            | -0.001           | 98  | 46331    | 20.0            | 20.3              |       |
| 16 Acrolein                   | 56  | 2.300        | 2.301            | -0.001           | 98  | 15040    | 40.0            | 36.1              |       |
| 17 1,1-Dichloroethene         | 96  | 2.323        | 2.324            | -0.001           | 95  | 45454    | 20.0            | 20.3              |       |
| 18 Acetone                    | 43  | 2.414        | 2.415            | -0.001           | 88  | 72219    | 100.0           | 115.1             |       |
| 19 Iodomethane                | 142 | 2.460        | 2.461            | -0.001           | 97  | 28367    | 20.0            | 7.90              |       |
| 20 Carbon disulfide           | 76  | 2.483        | 2.484            | -0.001           | 99  | 172890   | 20.0            | 19.3              |       |
| 21 Isopropyl alcohol          | 45  | 2.506        | 2.506            | 0.000            | 99  | 31357    | 200.0           | 199.2             |       |
| 22 3-Chloro-1-propene         | 76  | 2.608        | 2.609            | -0.001           | 92  | 29354    | 20.0            | 19.6              |       |
| 23 Cyclopentene               | 67  | 2.620        | 2.621            | -0.001           | 94  | 105016   | 20.0            | 17.0              |       |
| 24 Methyl acetate             | 43  | 2.631        | 2.632            | -0.001           | 99  | 74042    | 40.0            | 31.0              |       |
| 25 Acetonitrile               | 41  | 2.688        | 2.689            | -0.001           | 98  | 65414    | 200.0           | 186.6             |       |
| 26 Methylene Chloride         | 84  | 2.734        | 2.735            | -0.001           | 89  | 60435    | 20.0            | 21.5              |       |
| * 27 TBA-d9 (IS)              | 65  | 2.734        | 2.735            | -0.001           | 0   | 193623   | 1000.0          | 1000.0            |       |
| 28 2-Methyl-2-propanol        | 59  | 2.803        | 2.803            | 0.000            | 99  | 46990    | 200.0           | 205.8             |       |
| 29 Methyl tert-butyl ether    | 73  | 2.871        | 2.872            | -0.001           | 97  | 133189   | 20.0            | 19.9              |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.894        | 2.895            | -0.001           | 94  | 54795    | 20.0            | 21.3              |       |
| 31 Acrylonitrile              | 53  | 2.974        | 2.975            | 0.000            | 95  | 203129   | 200.0           | 208.5             |       |

| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 32 Hexane                        | 57  | 3.031     | 3.032         | -0.001        | 92  | 44821    | 20.0         | 16.6           |       |
| 33 Isopropyl ether               | 45  | 3.248     | 3.237         | 0.011         | 97  | 147051   | 20.0         | 16.3           |       |
| 34 1,1-Dichloroethane            | 63  | 3.271     | 3.271         | 0.000         | 99  | 96290    | 20.0         | 19.5           |       |
| 35 Vinyl acetate                 | 43  | 3.293     | 3.294         | -0.001        | 100 | 216512   | 40.0         | 40.2           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.316     | 3.306         | 0.010         | 89  | 47482    | 20.0         | 20.5           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.545     | 3.545         | 0.000         | 89  | 137281   | 20.0         | 18.2           |       |
| 38 2,2-Dichloropropane           | 79  | 3.727     | 3.728         | -0.001        | 93  | 25340    | 20.0         | 21.5           |       |
| * 39 2-Butanone-d5               | 46  | 3.739     | 3.739         | 0.000         | 0   | 241867   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.762     | 3.762         | 0.000         | 98  | 65300    | 20.0         | 22.1           |       |
| 41 2-Butanone (MEK)              | 72  | 3.796     | 3.797         | -0.001        | 96  | 30176    | 100.0        | 120.7          |       |
| 42 Ethyl acetate                 | 70  | 3.796     | 3.797         | -0.001        | 95  | 12448    | 40.0         | 50.9           |       |
| 43 Methyl acrylate               | 55  | 3.841     | 3.842         | -0.001        | 100 | 46181    | 20.0         | 16.8           |       |
| 44 Propionitrile                 | 54  | 3.921     | 3.922         | -0.001        | 98  | 78849    | 200.0        | 204.9          |       |
| 46 Chlorobromomethane            | 128 | 3.978     | 3.979         | -0.001        | 85  | 34778    | 20.0         | 24.0           |       |
| 45 Tetrahydrofuran               | 72  | 3.990     | 3.991         | -0.001        | 86  | 13245    | 40.0         | 51.9           |       |
| 47 Methacrylonitrile             | 67  | 4.013     | 4.013         | 0.000         | 91  | 235540   | 200.0        | 200.6          |       |
| 48 Chloroform                    | 83  | 4.036     | 4.036         | 0.000         | 99  | 96645    | 20.0         | 21.3           |       |
| 49 Cyclohexane                   | 84  | 4.138     | 4.139         | -0.001        | 90  | 57924    | 20.0         | 19.5           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.161     | 4.162         | -0.001        | 99  | 77804    | 20.0         | 21.5           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.184     | 4.185         | -0.001        | 97  | 116529   | 50.0         | 49.6           |       |
| 52 Carbon tetrachloride          | 117 | 4.275     | 4.265         | 0.010         | 97  | 69738    | 20.0         | 22.0           |       |
| 53 1,1-Dichloropropene           | 75  | 4.310     | 4.310         | 0.000         | 98  | 63527    | 20.0         | 19.6           |       |
| 54 Isooctane                     | 57  | 4.458     | 4.459         | -0.001        | 93  | 79525    | 20.0         | 17.9           |       |
| 58 Isobutyl alcohol              | 43  | 4.469     | 4.459         | 0.010         | 94  | 62571    | 500.0        | 513.2          | a     |
| 55 Benzene                       | 78  | 4.492     | 4.493         | -0.001        | 96  | 222780   | 20.0         | 21.2           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.526     | 4.516         | 0.010         | 0   | 110588   | 50.0         | 43.0           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.572     | 4.573         | -0.001        | 89  | 39212    | 20.0         | 19.1           |       |
| 59 Isopropyl acetate             | 43  | 4.572     | 4.573         | -0.001        | 94  | 124560   | 20.0         | 16.6           |       |
| 60 1,2-Dichloroethane            | 62  | 4.595     | 4.596         | -0.001        | 97  | 68893    | 20.0         | 19.8           |       |
| 61 n-Heptane                     | 57  | 4.641     | 4.641         | 0.000         | 87  | 18089    | 20.0         | 17.7           |       |
| * 62 Fluorobenzene               | 96  | 4.778     | 4.778         | 0.000         | 99  | 436826   | 50.0         | 50.0           |       |
| 64 Trichloroethene               | 95  | 5.120     | 5.121         | -0.001        | 95  | 53274    | 20.0         | 20.7           |       |
| 63 n-Butanol                     | 56  | 5.234     | 5.235         | -0.001        | 44  | 23489    | 500.0        | 429.7          | a     |
| 65 Methylcyclohexane             | 83  | 5.234     | 5.235         | -0.001        | 92  | 57318    | 20.0         | 18.8           |       |
| 66 Ethyl acrylate                | 55  | 5.257     | 5.258         | -0.001        | 98  | 103177   | 20.0         | 25.2           |       |
| 67 1,2-Dichloropropane           | 63  | 5.406     | 5.406         | 0.000         | 93  | 55017    | 20.0         | 19.6           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.485     | 5.486         | -0.001        | 0   | 26418    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.497     | 5.498         | -0.001        | 88  | 27315    | 40.0         | 43.3           |       |
| 70 1,4-Dioxane                   | 88  | 5.531     | 5.532         | -0.001        | 44  | 14090    | 400.0        | 428.4          |       |
| 71 Dibromomethane                | 93  | 5.543     | 5.532         | 0.011         | 92  | 40769    | 20.0         | 21.8           |       |
| 72 n-Propyl acetate              | 43  | 5.554     | 5.555         | -0.001        | 97  | 69738    | 20.0         | 16.3           |       |
| 73 Dichlorobromomethane          | 83  | 5.691     | 5.692         | -0.001        | 98  | 76297    | 20.0         | 21.2           |       |
| 74 2-Nitropropane                | 41  | 6.022     | 6.023         | -0.001        | 85  | 24608    | 40.0         | 40.2           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.033     | 6.034         | -0.001        | 76  | 25030    | 20.0         | 13.2           |       |
| 76 Epichlorohydrin               | 57  | 6.136     | 6.137         | -0.001        | 99  | 197789   | 400.0        | 992.5          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.182     | 6.183         | -0.001        | 90  | 84820    | 20.0         | 20.2           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.353     | 6.354         | -0.001        | 96  | 227333   | 100.0        | 111.0          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.410     | 6.411         | -0.001        | 100 | 400312   | 50.0         | 47.6           |       |
| 80 Toluene                       | 91  | 6.490     | 6.491         | -0.001        | 94  | 221920   | 20.0         | 20.7           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.856     | 6.856         | 0.000         | 96  | 70202    | 20.0         | 18.4           |       |
| 82 Ethyl methacrylate            | 69  | 6.890     | 6.890         | 0.000         | 88  | 52923    | 20.0         | 14.8           |       |
| 83 1,1,2-Trichloroethane         | 83  | 7.061     | 7.062         | -0.001        | 97  | 48429    | 20.0         | 20.6           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 84 Tetrachloroethene            | 166 | 7.095     | 7.085         | 0.010         | 96  | 66431    | 20.0         | 24.6           |       |
| 85 1,3-Dichloropropane          | 76  | 7.267     | 7.267         | -0.001        | 93  | 77730    | 20.0         | 19.3           |       |
| 86 2-Hexanone                   | 58  | 7.346     | 7.347         | -0.001        | 96  | 83653    | 100.0        | 117.1          |       |
| 87 n-Butyl acetate              | 43  | 7.461     | 7.461         | 0.000         | 99  | 66000    | 20.0         | 15.0           |       |
| 88 Chlorodibromomethane         | 129 | 7.495     | 7.496         | -0.001        | 98  | 68566    | 20.0         | 23.1           |       |
| 89 Ethylene Dibromide           | 107 | 7.643     | 7.644         | -0.001        | 99  | 57061    | 20.0         | 21.2           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.191     | 8.192         | -0.001        | 83  | 352925   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.226     | 8.226         | 0.000         | 98  | 158330   | 20.0         | 22.0           |       |
| 92 Ethylbenzene                 | 106 | 8.328     | 8.329         | -0.001        | 98  | 74377    | 20.0         | 21.6           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.351     | 8.352         | -0.001        | 98  | 60206    | 20.0         | 22.9           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.488     | 8.489         | -0.001        | 0   | 86238    | 20.0         | 20.7           |       |
| 96 o-Xylene                     | 106 | 9.013     | 9.014         | -0.001        | 96  | 85276    | 20.0         | 20.7           |       |
| 95 n-Butyl acrylate             | 73  | 9.025     | 9.025         | 0.000         | 98  | 35177    | 20.0         | 15.2           |       |
| 97 Styrene                      | 104 | 9.059     | 9.060         | -0.001        | 98  | 164852   | 20.0         | 22.1           |       |
| 99 Bromoform                    | 173 | 9.310     | 9.311         | -0.001        | 98  | 50309    | 20.0         | 23.7           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.310     | 9.311         | -0.001        | 91  | 66792    | 20.0         | 11.4           |       |
| 100 Isopropylbenzene            | 105 | 9.447     | 9.448         | -0.001        | 95  | 205372   | 20.0         | 20.8           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.664     | 9.653         | 0.011         | 96  | 145293   | 50.0         | 54.6           |       |
| 102 Bromobenzene                | 156 | 9.790     | 9.790         | 0.000         | 88  | 75769    | 20.0         | 21.8           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.847     | 9.847         | 0.000         | 99  | 77098    | 20.0         | 18.4           |       |
| 104 N-Propylbenzene             | 91  | 9.858     | 9.859         | -0.001        | 100 | 240378   | 20.0         | 19.5           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.892     | 9.893         | -0.001        | 95  | 19400    | 20.0         | 19.0           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.915     | 9.916         | -0.001        | 80  | 16161    | 20.0         | 14.8           |       |
| 107 2-Chlorotoluene             | 91  | 9.961     | 9.962         | -0.001        | 97  | 191862   | 20.0         | 20.6           |       |
| 108 4-Ethyltoluene              | 105 | 9.972     | 9.973         | -0.001        | 98  | 232033   | 20.0         | 22.0           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.029    | 10.030        | -0.001        | 95  | 185687   | 20.0         | 21.6           |       |
| 110 4-Chlorotoluene             | 91  | 10.064    | 10.064        | 0.000         | 96  | 194572   | 20.0         | 21.9           |       |
| 111 Butyl Methacrylate          | 87  | 10.132    | 10.133        | -0.001        | 90  | 64134    | 20.0         | 15.4           |       |
| 112 tert-Butylbenzene           | 119 | 10.292    | 10.293        | -0.001        | 97  | 142372   | 20.0         | 21.1           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.338    | 10.338        | 0.000         | 97  | 196431   | 20.0         | 20.2           |       |
| 114 sec-Butylbenzene            | 105 | 10.463    | 10.464        | -0.001        | 99  | 205442   | 20.0         | 21.8           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.577    | 10.578        | -0.001        | 85  | 143618   | 20.0         | 23.2           |       |
| 115 4-Isopropyltoluene          | 119 | 10.577    | 10.578        | -0.001        | 98  | 180597   | 20.0         | 17.4           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.634    | 10.624        | 0.010         | 91  | 219203   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.646    | 10.647        | -0.001        | 97  | 148342   | 20.0         | 22.4           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.657    | 10.658        | -0.001        | 98  | 217807   | 20.0         | 20.9           |       |
| 119 Benzyl chloride             | 91  | 10.760    | 10.761        | -0.001        | 100 | 130000   | 20.0         | 18.7           |       |
| 120 2,3-Dihydroindene           | 117 | 10.794    | 10.795        | -0.001        | 94  | 234311   | 20.0         | 22.1           |       |
| 121 p-Diethylbenzene            | 119 | 10.840    | 10.841        | -0.001        | 94  | 102718   | 20.0         | 22.3           |       |
| 122 n-Butylbenzene              | 92  | 10.863    | 10.864        | -0.001        | 97  | 93117    | 20.0         | 21.5           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.908    | 10.909        | -0.001        | 100 | 140530   | 20.0         | 23.0           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.342    | 11.354        | -0.012        | 99  | 154802   | 20.0         | 15.5           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.422    | 11.423        | -0.001        | 89  | 14045    | 20.0         | 21.5           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.502    | 11.503        | -0.001        | 96  | 93618    | 20.0         | 24.5           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.879    | 11.880        | -0.001        | 93  | 81349    | 20.0         | 22.3           |       |
| 128 Hexachlorobutadiene         | 225 | 11.936    | 11.937        | -0.001        | 97  | 33977    | 20.0         | 27.7           |       |
| 129 Naphthalene                 | 128 | 12.039    | 12.039        | 0.000         | 100 | 203511   | 20.0         | 21.3           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.187    | 12.188        | -0.001        | 95  | 79042    | 20.0         | 23.7           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 43.3           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 41.5           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 105.0          |       |

**QC Flag Legend**

## Review Flags

a - User Assigned ID

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00281     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181010-80066.b\\J76068.D

Injection Date: 10-Oct-2018 20:35:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

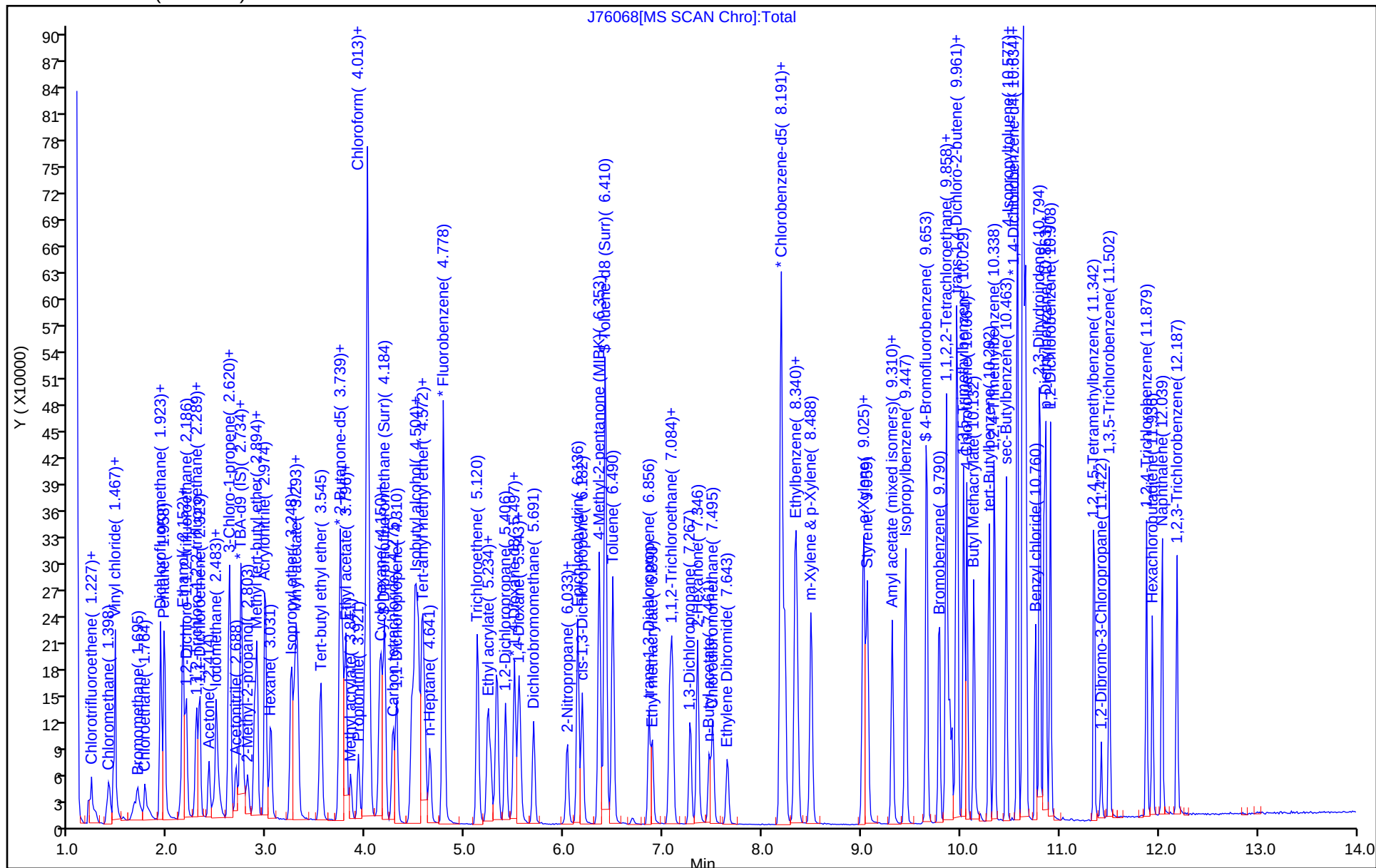
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 460-559235/5  
 Matrix: Water Lab File ID: J76118.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 10/11/2018 09:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 559235 Units: ug/L

| CAS NO.    | COMPOUND NAME               | RESULT | Q | RL  | MDL  |
|------------|-----------------------------|--------|---|-----|------|
| 71-55-6    | 1,1,1-Trichloroethane       | 20.6   |   | 1.0 | 0.24 |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 16.9   |   | 1.0 | 0.37 |
| 79-00-5    | 1,1,2-Trichloroethane       | 19.0   |   | 1.0 | 0.43 |
| 75-34-3    | 1,1-Dichloroethane          | 17.7   |   | 1.0 | 0.26 |
| 75-35-4    | 1,1-Dichloroethene          | 19.9   |   | 1.0 | 0.12 |
| 107-06-2   | 1,2-Dichloroethane          | 18.1   |   | 1.0 | 0.43 |
| 78-87-5    | 1,2-Dichloropropane         | 17.7   |   | 1.0 | 0.35 |
| 78-93-3    | 2-Butanone (MEK)            | 119    |   | 5.0 | 1.9  |
| 591-78-6   | 2-Hexanone                  | 108    |   | 5.0 | 2.9  |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 105    |   | 5.0 | 2.7  |
| 67-64-1    | Acetone                     | 110    |   | 5.0 | 5.0  |
| 71-43-2    | Benzene                     | 19.6   |   | 1.0 | 0.43 |
| 75-25-2    | Bromoform                   | 22.3   |   | 1.0 | 0.54 |
| 74-83-9    | Bromomethane                | 17.1   |   | 1.0 | 1.0  |
| 75-15-0    | Carbon disulfide            | 18.6   |   | 1.0 | 0.16 |
| 56-23-5    | Carbon tetrachloride        | 21.0   |   | 1.0 | 0.21 |
| 108-90-7   | Chlorobenzene               | 20.9   |   | 1.0 | 0.38 |
| 74-97-5    | Chlorobromomethane          | 22.2   |   | 1.0 | 0.41 |
| 75-00-3    | Chloroethane                | 20.4   |   | 1.0 | 0.32 |
| 67-66-3    | Chloroform                  | 19.5   |   | 1.0 | 0.33 |
| 74-87-3    | Chloromethane               | 16.5   |   | 1.0 | 0.14 |
| 156-59-2   | cis-1,2-Dichloroethene      | 19.9   |   | 1.0 | 0.22 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 19.3   |   | 1.0 | 0.46 |
| 100-41-4   | Ethylbenzene                | 20.3   |   | 1.0 | 0.30 |
| 75-09-2    | Methylene Chloride          | 20.0   |   | 1.0 | 0.32 |
| 100-42-5   | Styrene                     | 20.1   |   | 1.0 | 0.42 |
| 127-18-4   | Tetrachloroethene           | 23.3   |   | 1.0 | 0.25 |
| 108-88-3   | Toluene                     | 19.3   |   | 1.0 | 0.38 |
| 156-60-5   | trans-1,2-Dichloroethene    | 19.9   |   | 1.0 | 0.24 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 17.2   |   | 1.0 | 0.49 |
| 79-01-6    | Trichloroethene             | 20.5   |   | 1.0 | 0.31 |
| 75-01-4    | Vinyl chloride              | 18.2   |   | 1.0 | 0.17 |
| 1330-20-7  | Xylenes, Total              | 38.2   |   | 2.0 | 0.65 |

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 460-559235/5  
Matrix: Water Lab File ID: J76118.D  
Analysis Method: 8260C Date Collected: \_\_\_\_\_  
Sample wt/vol: 5 (mL) Date Analyzed: 10/11/2018 09:02  
Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
Soil Extract Vol.: \_\_\_\_\_ GC Column: Rtx-624 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 559235 Units: ug/L

| CAS NO.    | SURROGATE                    | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 84   |   | 74-132 |
| 460-00-4   | 4-Bromofluorobenzene         | 110  |   | 77-124 |
| 1868-53-7  | Dibromofluoromethane (Surr)  | 100  |   | 72-131 |
| 2037-26-5  | Toluene-d8 (Surr)            | 96   |   | 80-120 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\J76118.D  
 Lims ID: LCSD  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 11-Oct-2018 09:02:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCSD  
 Misc. Info.: 460-0080093-005  
 Operator ID: Instrument ID: CVOAMS8  
 Method: \\ChromNA\Edison\ChromData\CVOAMS8\20181011-80093.b\8260\_W8.m  
 Limit Group: VOA - 8260C Water and Solid  
 Last Update: 11-Oct-2018 12:35:54 Calib Date: 20-Sep-2018 21:24:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180920-78971.b\J75078.D  
 Column 1 : Rtx-624 ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX0317

First Level Reviewer: moroneyc

Date: 11-Oct-2018 12:35:19

| Compound                      | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 1 Chlorotrifluoroethene       | 66  | 1.205     | 1.203         | 0.002         | 89  | 6883     | 20.0         | 15.5           |       |
| 2 Dichlorodifluoromethane     | 85  | 1.228     | 1.225         | 0.003         | 99  | 71317    | 20.0         | 21.2           |       |
| 3 Chloromethane               | 50  | 1.399     | 1.408         | -0.009        | 99  | 65093    | 20.0         | 16.5           |       |
| 4 Vinyl chloride              | 62  | 1.456     | 1.454         | 0.002         | 98  | 66977    | 20.0         | 18.2           |       |
| 5 Butadiene                   | 54  | 1.467     | 1.465         | 0.002         | 94  | 54120    | 20.0         | 17.4           |       |
| 6 Bromomethane                | 94  | 1.707     | 1.705         | 0.002         | 96  | 30300    | 20.0         | 17.1           |       |
| 7 Chloroethane                | 64  | 1.776     | 1.773         | 0.003         | 100 | 37090    | 20.0         | 20.4           |       |
| 9 Trichlorofluoromethane      | 101 | 1.935     | 1.933         | 0.002         | 99  | 86803    | 20.0         | 23.8           |       |
| 8 Dichlorofluoromethane       | 67  | 1.935     | 1.933         | 0.002         | 91  | 110035   | 20.0         | 21.7           |       |
| 10 Pentane                    | 72  | 1.970     | 1.968         | 0.002         | 96  | 10268    | 40.0         | 36.7           |       |
| 11 Ethanol                    | 46  | 2.118     | 2.116         | 0.002         | 97  | 10406    | 800.0        | 746.9          |       |
| 12 Ethyl ether                | 59  | 2.141     | 2.150         | -0.009        | 98  | 35120    | 20.0         | 17.0           |       |
| 13 2-Methyl-1,3-butadiene     | 53  | 2.164     | 2.162         | 0.002         | 95  | 36658    | 20.0         | 16.2           |       |
| 14 1,2-Dichloro-1,1,2-trifluo | 117 | 2.187     | 2.184         | 0.003         | 92  | 43302    | 20.0         | 21.4           |       |
| 15 1,1,2-Trichloro-1,2,2-trif | 101 | 2.289     | 2.287         | 0.002         | 98  | 49658    | 20.0         | 21.6           |       |
| 16 Acrolein                   | 56  | 2.301     | 2.299         | 0.002         | 96  | 15601    | 40.0         | 37.3           |       |
| 17 1,1-Dichloroethene         | 96  | 2.324     | 2.321         | 0.003         | 97  | 44765    | 20.0         | 19.9           |       |
| 18 Acetone                    | 43  | 2.415     | 2.413         | 0.002         | 88  | 70995    | 100.0        | 110.4          |       |
| 19 Iodomethane                | 142 | 2.472     | 2.470         | 0.002         | 95  | 36333    | 20.0         | 10.1           |       |
| 20 Carbon disulfide           | 76  | 2.495     | 2.493         | 0.002         | 99  | 166854   | 20.0         | 18.6           |       |
| 21 Isopropyl alcohol          | 45  | 2.506     | 2.504         | 0.002         | 98  | 30039    | 200.0        | 189.9          |       |
| 22 3-Chloro-1-propene         | 76  | 2.620     | 2.618         | 0.002         | 96  | 28270    | 20.0         | 18.8           |       |
| 23 Cyclopentene               | 67  | 2.632     | 2.630         | 0.002         | 92  | 104817   | 20.0         | 16.9           |       |
| 24 Methyl acetate             | 43  | 2.632     | 2.630         | 0.002         | 100 | 75708    | 40.0         | 31.5           |       |
| 25 Acetonitrile               | 41  | 2.689     | 2.687         | 0.002         | 99  | 65881    | 200.0        | 187.1          |       |
| * 27 TBA-d9 (IS)              | 65  | 2.735     | 2.744         | -0.009        | 0   | 194489   | 1000.0       | 1000.0         |       |
| 26 Methylene Chloride         | 84  | 2.735     | 2.744         | -0.009        | 56  | 56804    | 20.0         | 20.0           |       |
| 28 2-Methyl-2-propanol        | 59  | 2.803     | 2.801         | 0.002         | 99  | 46204    | 200.0        | 201.5          |       |
| 29 Methyl tert-butyl ether    | 73  | 2.883     | 2.881         | 0.002         | 97  | 123015   | 20.0         | 18.3           |       |
| 30 trans-1,2-Dichloroethene   | 96  | 2.906     | 2.904         | 0.002         | 92  | 51581    | 20.0         | 19.9           |       |
| 31 Acrylonitrile              | 53  | 2.986     | 2.984         | 0.002         | 94  | 193539   | 200.0        | 197.7          |       |



| Compound                         | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 32 Hexane                        | 57  | 3.043     | 3.041         | 0.002         | 92  | 45775    | 20.0         | 16.9           |       |
| 33 Isopropyl ether               | 45  | 3.248     | 3.246         | 0.002         | 98  | 139179   | 20.0         | 15.4           |       |
| 34 1,1-Dichloroethane            | 63  | 3.283     | 3.280         | 0.003         | 100 | 88046    | 20.0         | 17.7           |       |
| 35 Vinyl acetate                 | 43  | 3.294     | 3.303         | -0.009        | 100 | 175722   | 40.0         | 32.5           |       |
| 36 2-Chloro-1,3-butadiene        | 88  | 3.317     | 3.315         | 0.002         | 89  | 45040    | 20.0         | 19.4           |       |
| 37 Tert-butyl ethyl ether        | 59  | 3.545     | 3.543         | 0.002         | 89  | 125835   | 20.0         | 16.6           |       |
| 38 2,2-Dichloropropane           | 79  | 3.739     | 3.737         | 0.002         | 95  | 23053    | 20.0         | 19.4           |       |
| * 39 2-Butanone-d5               | 46  | 3.751     | 3.749         | 0.002         | 0   | 247852   | 250.0        | 250.0          |       |
| 40 cis-1,2-Dichloroethene        | 96  | 3.774     | 3.771         | 0.003         | 98  | 59248    | 20.0         | 19.9           |       |
| 41 2-Butanone (MEK)              | 72  | 3.796     | 3.794         | 0.002         | 97  | 30482    | 100.0        | 119.0          |       |
| 42 Ethyl acetate                 | 70  | 3.808     | 3.806         | 0.002         | 96  | 11594    | 40.0         | 46.3           |       |
| 43 Methyl acrylate               | 55  | 3.853     | 3.851         | 0.002         | 99  | 43834    | 20.0         | 15.8           |       |
| 44 Propionitrile                 | 54  | 3.922     | 3.931         | -0.009        | 99  | 76276    | 200.0        | 197.3          |       |
| 46 Chlorobromomethane            | 128 | 3.991     | 3.988         | 0.002         | 83  | 32386    | 20.0         | 22.2           |       |
| 45 Tetrahydrofuran               | 72  | 3.991     | 3.988         | 0.002         | 92  | 12367    | 40.0         | 47.3           |       |
| 47 Methacrylonitrile             | 67  | 4.025     | 4.023         | 0.002         | 91  | 222867   | 200.0        | 188.7          |       |
| 48 Chloroform                    | 83  | 4.048     | 4.045         | 0.003         | 99  | 88709    | 20.0         | 19.5           |       |
| 49 Cyclohexane                   | 84  | 4.150     | 4.148         | 0.002         | 91  | 61625    | 20.0         | 20.6           |       |
| 50 1,1,1-Trichloroethane         | 97  | 4.162     | 4.160         | 0.002         | 98  | 74914    | 20.0         | 20.6           |       |
| \$ 51 Dibromofluoromethane (Surr | 113 | 4.196     | 4.194         | 0.002         | 97  | 118635   | 50.0         | 50.2           |       |
| 52 Carbon tetrachloride          | 117 | 4.276     | 4.274         | 0.002         | 97  | 67027    | 20.0         | 21.0           |       |
| 53 1,1-Dichloropropene           | 75  | 4.310     | 4.308         | 0.002         | 98  | 57928    | 20.0         | 17.7           |       |
| 54 Isooctane                     | 57  | 4.470     | 4.468         | 0.002         | 73  | 80484    | 20.0         | 18.0           |       |
| 58 Isobutyl alcohol              | 43  | 4.470     | 4.468         | 0.002         | 82  | 59712    | 500.0        | 487.6          | a     |
| 55 Benzene                       | 78  | 4.504     | 4.502         | 0.002         | 94  | 201660   | 20.0         | 19.6           |       |
| \$ 56 1,2-Dichloroethane-d4 (Sur | 65  | 4.527     | 4.525         | 0.002         | 0   | 108259   | 50.0         | 41.9           |       |
| 57 Tert-amyl methyl ether        | 87  | 4.573     | 4.571         | 0.002         | 91  | 36261    | 20.0         | 17.6           |       |
| 59 Isopropyl acetate             | 43  | 4.573     | 4.571         | 0.002         | 96  | 121194   | 20.0         | 16.1           |       |
| 60 1,2-Dichloroethane            | 62  | 4.607     | 4.605         | 0.002         | 97  | 63202    | 20.0         | 18.1           |       |
| 61 n-Heptane                     | 57  | 4.653     | 4.650         | 0.003         | 90  | 18318    | 20.0         | 17.8           |       |
| * 62 Fluorobenzene               | 96  | 4.790     | 4.787         | 0.003         | 99  | 439304   | 50.0         | 50.0           |       |
| 63 n-Butanol                     | 56  | 5.121     | 5.119         | 0.002         | 95  | 26198    | 500.0        | 477.2          |       |
| 64 Trichloroethene               | 95  | 5.132     | 5.130         | 0.002         | 97  | 52823    | 20.0         | 20.5           |       |
| 65 Methylcyclohexane             | 83  | 5.246     | 5.244         | 0.002         | 94  | 57954    | 20.0         | 18.9           |       |
| 66 Ethyl acrylate                | 55  | 5.269     | 5.267         | 0.002         | 98  | 103736   | 20.0         | 25.2           |       |
| 67 1,2-Dichloropropane           | 63  | 5.418     | 5.415         | 0.003         | 92  | 50115    | 20.0         | 17.7           |       |
| * 68 1,4-Dioxane-d8              | 96  | 5.498     | 5.484         | 0.014         | 0   | 26592    | 1000.0       | 1000.0         |       |
| 69 Methyl methacrylate           | 100 | 5.509     | 5.507         | 0.002         | 88  | 26094    | 40.0         | 41.1           |       |
| 70 1,4-Dioxane                   | 88  | 5.543     | 5.541         | 0.002         | 44  | 13274    | 400.0        | 400.9          |       |
| 71 Dibromomethane                | 93  | 5.543     | 5.541         | 0.002         | 96  | 37359    | 20.0         | 19.9           |       |
| 72 n-Propyl acetate              | 43  | 5.566     | 5.564         | 0.002         | 98  | 66205    | 20.0         | 15.4           |       |
| 73 Dichlorobromomethane          | 83  | 5.703     | 5.701         | 0.002         | 99  | 70686    | 20.0         | 19.5           |       |
| 74 2-Nitropropane                | 41  | 6.034     | 6.032         | 0.002         | 87  | 23949    | 40.0         | 38.9           |       |
| 75 2-Chloroethyl vinyl ether     | 63  | 6.046     | 6.043         | 0.003         | 75  | 24020    | 20.0         | 12.6           |       |
| 76 Epichlorohydrin               | 57  | 6.148     | 6.146         | 0.002         | 99  | 189246   | 400.0        | 926.7          |       |
| 77 cis-1,3-Dichloropropene       | 75  | 6.194     | 6.192         | 0.002         | 90  | 79561    | 20.0         | 19.3           |       |
| 78 4-Methyl-2-pentanone (MIBK    | 43  | 6.365     | 6.363         | 0.002         | 96  | 219739   | 100.0        | 104.8          |       |
| \$ 79 Toluene-d8 (Surr)          | 98  | 6.422     | 6.420         | 0.002         | 100 | 394918   | 50.0         | 47.8           |       |
| 80 Toluene                       | 91  | 6.502     | 6.500         | 0.002         | 94  | 203293   | 20.0         | 19.3           |       |
| 81 trans-1,3-Dichloropropene     | 75  | 6.868     | 6.865         | 0.003         | 98  | 64272    | 20.0         | 17.2           |       |
| 82 Ethyl methacrylate            | 69  | 6.902     | 6.900         | 0.002         | 91  | 48430    | 20.0         | 13.5           |       |
| 83 1,1,2-Trichloroethane         | 83  | 7.073     | 7.071         | 0.002         | 96  | 43793    | 20.0         | 19.0           |       |

| Compound                        | Sig | RT (min.) | Exp RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/l | OnCol Amt ug/l | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 84 Tetrachloroethene            | 166 | 7.096     | 7.105         | -0.009        | 97  | 61725    | 20.0         | 23.3           |       |
| 85 1,3-Dichloropropane          | 76  | 7.279     | 7.276         | 0.003         | 94  | 70181    | 20.0         | 17.8           |       |
| 86 2-Hexanone                   | 58  | 7.358     | 7.356         | 0.002         | 96  | 78728    | 100.0        | 107.8          |       |
| 87 n-Butyl acetate              | 43  | 7.473     | 7.470         | 0.003         | 98  | 65630    | 20.0         | 15.2           |       |
| 88 Chlorodibromomethane         | 129 | 7.507     | 7.505         | 0.002         | 97  | 63810    | 20.0         | 21.9           |       |
| 89 Ethylene Dibromide           | 107 | 7.655     | 7.653         | 0.002         | 97  | 52907    | 20.0         | 20.1           |       |
| * 90 Chlorobenzene-d5           | 117 | 8.203     | 8.201         | 0.002         | 84  | 346194   | 50.0         | 50.0           |       |
| 91 Chlorobenzene                | 112 | 8.238     | 8.235         | 0.003         | 98  | 146981   | 20.0         | 20.9           |       |
| 92 Ethylbenzene                 | 106 | 8.340     | 8.338         | 0.002         | 98  | 68434    | 20.0         | 20.3           |       |
| 93 1,1,1,2-Tetrachloroethane    | 131 | 8.363     | 8.361         | 0.002         | 96  | 55281    | 20.0         | 21.4           |       |
| 94 m-Xylene & p-Xylene          | 106 | 8.500     | 8.498         | 0.002         | 0   | 78231    | 20.0         | 19.2           |       |
| 96 o-Xylene                     | 106 | 9.025     | 9.023         | 0.002         | 95  | 76446    | 20.0         | 19.0           |       |
| 95 n-Butyl acrylate             | 73  | 9.037     | 9.035         | 0.002         | 96  | 31324    | 20.0         | 13.8           |       |
| 97 Styrene                      | 104 | 9.071     | 9.069         | 0.002         | 97  | 146636   | 20.0         | 20.1           |       |
| 99 Bromoform                    | 173 | 9.322     | 9.320         | 0.002         | 98  | 46415    | 20.0         | 22.3           |       |
| 98 Amyl acetate (mixed isomer   | 43  | 9.322     | 9.320         | 0.002         | 90  | 66038    | 20.0         | 11.2           |       |
| 100 Isopropylbenzene            | 105 | 9.448     | 9.457         | -0.009        | 96  | 189206   | 20.0         | 19.6           |       |
| \$ 101 4-Bromofluorobenzene     | 174 | 9.665     | 9.662         | 0.003         | 97  | 143508   | 50.0         | 55.0           |       |
| 102 Bromobenzene                | 156 | 9.790     | 9.788         | 0.002         | 89  | 69080    | 20.0         | 19.7           |       |
| 103 1,1,2,2-Tetrachloroethane   | 83  | 9.859     | 9.857         | 0.002         | 99  | 71358    | 20.0         | 16.9           |       |
| 104 N-Propylbenzene             | 91  | 9.870     | 9.868         | 0.002         | 100 | 220284   | 20.0         | 17.7           |       |
| 105 1,2,3-Trichloropropane      | 110 | 9.893     | 9.891         | 0.002         | 96  | 18559    | 20.0         | 18.0           |       |
| 106 trans-1,4-Dichloro-2-buten  | 53  | 9.916     | 9.914         | 0.002         | 77  | 15737    | 20.0         | 14.3           |       |
| 107 2-Chlorotoluene             | 91  | 9.961     | 9.959         | 0.002         | 97  | 168394   | 20.0         | 17.9           |       |
| 108 4-Ethyltoluene              | 105 | 9.973     | 9.971         | 0.002         | 98  | 203998   | 20.0         | 19.2           |       |
| 109 1,3,5-Trimethylbenzene      | 105 | 10.041    | 10.039        | 0.002         | 95  | 164973   | 20.0         | 19.0           |       |
| 110 4-Chlorotoluene             | 91  | 10.064    | 10.073        | -0.009        | 95  | 169829   | 20.0         | 19.0           |       |
| 111 Butyl Methacrylate          | 87  | 10.144    | 10.142        | 0.002         | 88  | 60829    | 20.0         | 14.5           |       |
| 112 tert-Butylbenzene           | 119 | 10.293    | 10.290        | 0.003         | 95  | 128505   | 20.0         | 18.9           |       |
| 113 1,2,4-Trimethylbenzene      | 105 | 10.350    | 10.347        | 0.003         | 96  | 177250   | 20.0         | 18.2           |       |
| 114 sec-Butylbenzene            | 105 | 10.464    | 10.462        | 0.002         | 99  | 183224   | 20.0         | 19.3           |       |
| 116 1,3-Dichlorobenzene         | 146 | 10.578    | 10.576        | 0.002         | 87  | 130554   | 20.0         | 20.9           |       |
| 115 4-Isopropyltoluene          | 119 | 10.578    | 10.576        | 0.002         | 98  | 161683   | 20.0         | 15.5           |       |
| * 117 1,4-Dichlorobenzene-d4    | 152 | 10.635    | 10.633        | 0.002         | 92  | 220966   | 50.0         | 50.0           |       |
| 118 1,4-Dichlorobenzene         | 146 | 10.647    | 10.656        | -0.010        | 96  | 131497   | 20.0         | 19.7           |       |
| 134 1,2,3-Trimethylbenzene      | 105 | 10.669    | 10.667        | 0.002         | 97  | 199367   | 20.0         | 19.0           |       |
| 119 Benzyl chloride             | 91  | 10.761    | 10.758        | 0.003         | 100 | 116136   | 20.0         | 16.6           |       |
| 120 2,3-Dihydroindene           | 117 | 10.806    | 10.804        | 0.002         | 94  | 204987   | 20.0         | 19.2           |       |
| 121 p-Diethylbenzene            | 119 | 10.852    | 10.850        | 0.002         | 96  | 91648    | 20.0         | 19.7           |       |
| 122 n-Butylbenzene              | 92  | 10.863    | 10.861        | 0.002         | 97  | 84298    | 20.0         | 19.3           |       |
| 123 1,2-Dichlorobenzene         | 146 | 10.909    | 10.907        | 0.002         | 99  | 127827   | 20.0         | 20.8           |       |
| 124 1,2,4,5-Tetramethylbenzene  | 119 | 11.354    | 11.352        | 0.002         | 98  | 140496   | 20.0         | 13.9           |       |
| 125 1,2-Dibromo-3-Chloropropan  | 155 | 11.423    | 11.421        | 0.002         | 93  | 13399    | 20.0         | 20.3           |       |
| 126 1,3,5-Trichlorobenzene      | 180 | 11.503    | 11.501        | 0.002         | 97  | 82513    | 20.0         | 21.4           |       |
| 127 1,2,4-Trichlorobenzene      | 180 | 11.880    | 11.877        | 0.003         | 93  | 71761    | 20.0         | 19.5           |       |
| 128 Hexachlorobutadiene         | 225 | 11.937    | 11.946        | -0.009        | 97  | 30572    | 20.0         | 24.6           |       |
| 129 Naphthalene                 | 128 | 12.039    | 12.037        | 0.002         | 100 | 186927   | 20.0         | 19.4           |       |
| 130 1,2,3-Trichlorobenzene      | 180 | 12.188    | 12.186        | 0.002         | 96  | 69407    | 20.0         | 20.7           |       |
| S 131 1,2-Dichloroethene, Total | 100 |           |               |               | 0   |          | 40.0         | 39.8           |       |
| S 132 Xylenes, Total            | 100 |           |               |               | 0   |          | 40.0         | 38.2           |       |
| S 133 Total BTEX                | 1   |           |               |               | 0   |          | 100.0        | 97.3           |       |

**QC Flag Legend**

## Review Flags

a - User Assigned ID

**Reagents:**

|                    |                     |           |             |
|--------------------|---------------------|-----------|-------------|
| 8260MIX1COMB_00087 | Amount Added: 20.00 | Units: uL |             |
| ACROLEIN W_00081   | Amount Added: 4.00  | Units: uL |             |
| GASES Li_00281     | Amount Added: 20.00 | Units: uL |             |
| 8260ISNEW_00119    | Amount Added: 1.00  | Units: uL | Run Reagent |
| 8260SURR250_00183  | Amount Added: 1.00  | Units: uL | Run Reagent |

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS8\\20181011-80093.b\\J76118.D

Injection Date: 11-Oct-2018 09:02:30

Instrument ID: CVOAMS8

Operator ID:

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

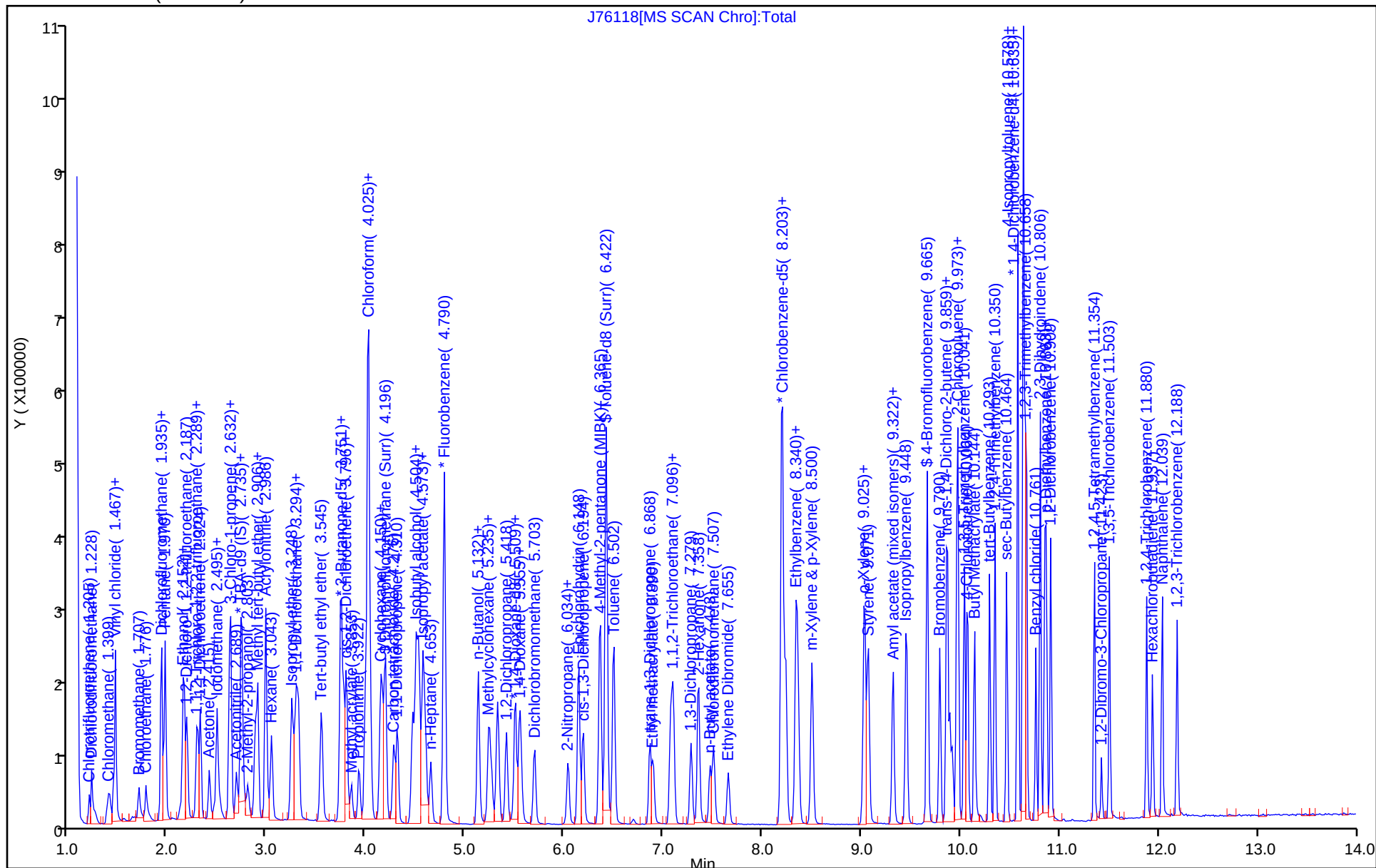
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260\_W8

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 ( 0.25 mm)



## GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 Start Date: 09/20/2018 11:34Analysis Batch Number: 553713 End Date: 09/20/2018 22:31

| LAB SAMPLE ID              | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID         |
|----------------------------|------------------|------------------|--------------------|-------------|-------------------|
| BFB 460-553713/1           |                  | 09/20/2018 11:34 | 1                  | J75064.D    | Rtx-624 0.25 (mm) |
| STD7 460-553713/3 IC       |                  | 09/20/2018 12:25 | 1                  | J75066.D    | Rtx-624 0.25 (mm) |
| STD5 460-553713/5 IC       |                  | 09/20/2018 13:19 | 1                  | J75068.D    | Rtx-624 0.25 (mm) |
| STD20 460-553713/6<br>ICIS |                  | 09/20/2018 13:46 | 1                  | J75069.D    | Rtx-624 0.25 (mm) |
| STD50 460-553713/7<br>IC   |                  | 09/20/2018 14:13 | 1                  | J75070.D    | Rtx-624 0.25 (mm) |
| STD200 460-553713/8<br>IC  |                  | 09/20/2018 14:39 | 1                  | J75071.D    | Rtx-624 0.25 (mm) |
| STD500 460-553713/9<br>IC  |                  | 09/20/2018 15:06 | 1                  | J75072.D    | Rtx-624 0.25 (mm) |
| STD1 460-553713/15<br>IC   |                  | 09/20/2018 21:24 | 1                  | J75078.D    | Rtx-624 0.25 (mm) |
| ICV 460-553713/17          |                  | 09/20/2018 22:31 | 1                  |             | Rtx-624 0.25 (mm) |

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 Start Date: 10/09/2018 19:13Analysis Batch Number: 558837 End Date: 10/10/2018 06:30

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID         |
|--------------------|------------------|------------------|--------------------|-------------|-------------------|
| BFB 460-558837/1   |                  | 10/09/2018 19:13 | 1                  | J76036.D    | Rtx-624 0.25 (mm) |
| CCVIS 460-558837/2 |                  | 10/09/2018 19:38 | 1                  | J76037.D    | Rtx-624 0.25 (mm) |
| LCS 460-558837/3   |                  | 10/09/2018 20:13 | 1                  | J76038.D    | Rtx-624 0.25 (mm) |
| LCSD 460-558837/4  |                  | 10/09/2018 20:40 | 1                  | J76039.D    | Rtx-624 0.25 (mm) |
| MB 460-558837/7    |                  | 10/09/2018 22:00 | 1                  | J76042.D    | Rtx-624 0.25 (mm) |
| ZZZZZ              |                  | 10/09/2018 22:27 | 1                  |             | Rtx-624 0.25 (mm) |
| 460-165769-4       |                  | 10/09/2018 22:54 | 1                  | J76044.D    | Rtx-624 0.25 (mm) |
| 460-165769-5       |                  | 10/09/2018 23:21 | 1                  | J76045.D    | Rtx-624 0.25 (mm) |
| 460-165769-8       |                  | 10/09/2018 23:47 | 1                  | J76046.D    | Rtx-624 0.25 (mm) |
| 460-165769-9       |                  | 10/10/2018 00:14 | 1                  | J76047.D    | Rtx-624 0.25 (mm) |
| 460-165769-12      |                  | 10/10/2018 00:41 | 1                  | J76048.D    | Rtx-624 0.25 (mm) |
| 460-165769-13      |                  | 10/10/2018 01:08 | 1                  | J76049.D    | Rtx-624 0.25 (mm) |
| 460-165769-14      |                  | 10/10/2018 01:35 | 1                  | J76050.D    | Rtx-624 0.25 (mm) |
| ZZZZZ              |                  | 10/10/2018 03:49 | 1                  |             | Rtx-624 0.25 (mm) |
| 460-165769-3       |                  | 10/10/2018 05:10 | 1                  | J76058.D    | Rtx-624 0.25 (mm) |
| ZZZZZ              |                  | 10/10/2018 05:36 | 1                  |             | Rtx-624 0.25 (mm) |
| 460-165769-7       |                  | 10/10/2018 06:03 | 1                  | J76060.D    | Rtx-624 0.25 (mm) |
| 460-165769-10      |                  | 10/10/2018 06:30 | 1                  | J76061.D    | Rtx-624 0.25 (mm) |

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 Start Date: 10/10/2018 07:26Analysis Batch Number: 558952 End Date: 10/10/2018 14:07

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID         |
|--------------------|------------------|------------------|--------------------|-------------|-------------------|
| BFB 460-558952/1   |                  | 10/10/2018 07:26 | 1                  | J76064.D    | Rtx-624 0.25 (mm) |
| CCVIS 460-558952/3 |                  | 10/10/2018 08:17 | 1                  | J76066.D    | Rtx-624 0.25 (mm) |
| LCS 460-558952/4   |                  | 10/10/2018 08:44 | 1                  | J76067.D    | Rtx-624 0.25 (mm) |
| LCSD 460-558952/5  |                  | 10/10/2018 09:11 | 1                  | J76068.D    | Rtx-624 0.25 (mm) |
| MB 460-558952/10   |                  | 10/10/2018 11:25 | 1                  | J76073.D    | Rtx-624 0.25 (mm) |
| ZZZZZ              |                  | 10/10/2018 11:53 | 1                  |             | Rtx-624 0.25 (mm) |
| ZZZZZ              |                  | 10/10/2018 12:19 | 1                  |             | Rtx-624 0.25 (mm) |
| ZZZZZ              |                  | 10/10/2018 12:46 | 1                  |             | Rtx-624 0.25 (mm) |
| ZZZZZ              |                  | 10/10/2018 13:13 | 1                  |             | Rtx-624 0.25 (mm) |
| 460-165769-2       |                  | 10/10/2018 13:40 | 5                  | J76078.D    | Rtx-624 0.25 (mm) |
| 460-165769-1       |                  | 10/10/2018 14:07 | 20                 | J76079.D    | Rtx-624 0.25 (mm) |

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 Start Date: 10/10/2018 18:29Analysis Batch Number: 559112 End Date: 10/11/2018 01:06

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID         |
|--------------------|------------------|------------------|--------------------|-------------|-------------------|
| BFB 460-559112/1   |                  | 10/10/2018 18:29 | 1                  | J76087.D    | Rtx-624 0.25 (mm) |
| CCVIS 460-559112/3 |                  | 10/10/2018 19:33 | 1                  | J76066.D    | Rtx-624 0.25 (mm) |
| LCS 460-559112/4   |                  | 10/10/2018 20:08 | 1                  | J76067.D    | Rtx-624 0.25 (mm) |
| LCSD 460-559112/5  |                  | 10/10/2018 20:35 | 1                  | J76068.D    | Rtx-624 0.25 (mm) |
| MB 460-559112/8    |                  | 10/10/2018 21:57 | 1                  | J76071.D    | Rtx-624 0.25 (mm) |
| 460-165769-11      |                  | 10/11/2018 01:06 | 1                  | J76100.D    | Rtx-624 0.25 (mm) |



## GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Instrument ID: CVOAMS8 Start Date: 10/11/2018 07:13Analysis Batch Number: 559235 End Date: 10/11/2018 18:31

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID         |
|--------------------|------------------|------------------|--------------------|-------------|-------------------|
| BFB 460-559235/1   |                  | 10/11/2018 07:13 | 1                  | J76114.D    | Rtx-624 0.25 (mm) |
| CCVIS 460-559235/3 |                  | 10/11/2018 08:03 | 1                  | J76116.D    | Rtx-624 0.25 (mm) |
| LCS 460-559235/4   |                  | 10/11/2018 08:35 | 1                  | J76117.D    | Rtx-624 0.25 (mm) |
| LCSD 460-559235/5  |                  | 10/11/2018 09:02 | 1                  | J76118.D    | Rtx-624 0.25 (mm) |
| MB 460-559235/8    |                  | 10/11/2018 10:22 | 1                  | J76121.D    | Rtx-624 0.25 (mm) |
| 460-165769-6       |                  | 10/11/2018 11:49 | 1                  | J76124.D    | Rtx-624 0.25 (mm) |
| ZZZZZ              |                  | 10/11/2018 13:36 | 1                  |             | Rtx-624 0.25 (mm) |
| ZZZZZ              |                  | 10/11/2018 18:31 | 1                  |             | Rtx-624 0.25 (mm) |

## GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 558837 Batch Start Date: 10/09/18 19:13 Batch Analyst: Parekh, Vyomesh BBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID     | Method Chain | Basis | InitialAmount | FinalAmount | 8260ISNEW 00119 | 8260MIX1COMB<br>00087 | 8260SURR250<br>00183 | ACROLEIN W<br>00081 |
|-----------------------|----------------------|--------------|-------|---------------|-------------|-----------------|-----------------------|----------------------|---------------------|
| BFB<br>460-558837/1   |                      | 8260C        |       | 5 mL          | 5 mL        |                 |                       |                      |                     |
| CCVIS<br>460-558837/2 |                      | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                 | 4 uL                |
| LCS<br>460-558837/3   |                      | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                 | 4 uL                |
| LCSD<br>460-558837/4  |                      | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                 | 4 uL                |
| MB 460-558837/7       |                      | 8260C        |       | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-A-4        | EB1 092618           | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-A-5        | FB1 09262018         | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-B-8        | EB2 09272018         | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-A-9        | FB2 09272018         | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-A-12       | EB3 09282018         | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-A-13       | FB3 09282018         | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-A-14       | TB1 09262018         | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-A-3        | FSMW-13A<br>09262018 | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-A-7        | FSMW-1A 09272018     | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-A-10       | FSMW-4A 09282018     | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | BFB 00017 | GASES Li 00280 |  |  |  |  |
|-----------------------|------------------|--------------|-------|-----------|----------------|--|--|--|--|
| BFB<br>460-558837/1   |                  | 8260C        |       | 1 uL      |                |  |  |  |  |
| CCVIS<br>460-558837/2 |                  | 8260C        |       |           | 20 uL          |  |  |  |  |
| LCS<br>460-558837/3   |                  | 8260C        |       |           | 20 uL          |  |  |  |  |
| LCSD<br>460-558837/4  |                  | 8260C        |       |           | 20 uL          |  |  |  |  |
| MB 460-558837/7       |                  | 8260C        |       |           |                |  |  |  |  |
| 460-165769-A-4        | EB1 092618       | 8260C        | T     |           |                |  |  |  |  |
| 460-165769-A-5        | FB1 09262018     | 8260C        | T     |           |                |  |  |  |  |
| 460-165769-B-8        | EB2 09272018     | 8260C        | T     |           |                |  |  |  |  |
| 460-165769-A-9        | FB2 09272018     | 8260C        | T     |           |                |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

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## GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 558837 Batch Start Date: 10/09/18 19:13 Batch Analyst: Parekh, Vyomesh BBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID   | Client Sample ID     | Method Chain | Basis | BFB 00017 | GASES Li 00280 |  |  |  |  |
|-----------------|----------------------|--------------|-------|-----------|----------------|--|--|--|--|
| 460-165769-A-12 | EB3 09282018         | 8260C        | T     |           |                |  |  |  |  |
| 460-165769-A-13 | FB3 09282018         | 8260C        | T     |           |                |  |  |  |  |
| 460-165769-A-14 | TB1 09262018         | 8260C        | T     |           |                |  |  |  |  |
| 460-165769-A-3  | FSMW-13A<br>09262018 | 8260C        | T     |           |                |  |  |  |  |
| 460-165769-A-7  | FSMW-1A 09272018     | 8260C        | T     |           |                |  |  |  |  |
| 460-165769-A-10 | FSMW-4A 09282018     | 8260C        | T     |           |                |  |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 558952 Batch Start Date: 10/10/18 07:26 Batch Analyst: Moroney, Christopher JBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID     | Method Chain | Basis | InitialAmount | FinalAmount | 8260ISNEW 00119 | 8260MIX1COMB<br>00087 | 8260SURRE250<br>00183 | ACROLEIN W<br>00081 |
|-----------------------|----------------------|--------------|-------|---------------|-------------|-----------------|-----------------------|-----------------------|---------------------|
| BFB<br>460-558952/1   |                      | 8260C        |       | 5 mL          | 5 mL        |                 |                       |                       |                     |
| CCVIS<br>460-558952/3 |                      | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                  | 4 uL                |
| LCS<br>460-558952/4   |                      | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                  | 4 uL                |
| LCSD<br>460-558952/5  |                      | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                  | 4 uL                |
| MB<br>460-558952/10   |                      | 8260C        |       | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                  |                     |
| 460-165769-C-2        | FSMW-14B<br>09262018 | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                  |                     |
| 460-165769-B-1        | FSMW-14A<br>09262018 | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                  |                     |

| Lab Sample ID         | Client Sample ID     | Method Chain | Basis | BFB 00017 | GASES Li 00281 |  |  |  |  |
|-----------------------|----------------------|--------------|-------|-----------|----------------|--|--|--|--|
| BFB<br>460-558952/1   |                      | 8260C        |       | 1 uL      |                |  |  |  |  |
| CCVIS<br>460-558952/3 |                      | 8260C        |       |           | 20 uL          |  |  |  |  |
| LCS<br>460-558952/4   |                      | 8260C        |       |           | 20 uL          |  |  |  |  |
| LCSD<br>460-558952/5  |                      | 8260C        |       |           | 20 uL          |  |  |  |  |
| MB<br>460-558952/10   |                      | 8260C        |       |           |                |  |  |  |  |
| 460-165769-C-2        | FSMW-14B<br>09262018 | 8260C        | T     |           |                |  |  |  |  |
| 460-165769-B-1        | FSMW-14A<br>09262018 | 8260C        | T     |           |                |  |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

## GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 559112 Batch Start Date: 10/10/18 18:29 Batch Analyst: Parekh, Vyomesh BBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | 8260ISNEW 00119 | 8260MIX1COMB<br>00087 | 8260SURR250<br>00183 | ACROLEIN W<br>00081 |
|-----------------------|------------------|--------------|-------|---------------|-------------|-----------------|-----------------------|----------------------|---------------------|
| BFB<br>460-559112/1   |                  | 8260C        |       | 5 mL          | 5 mL        |                 |                       |                      |                     |
| CCVIS<br>460-559112/3 |                  | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                 | 4 uL                |
| LCS<br>460-559112/4   |                  | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                 | 4 uL                |
| LCSD<br>460-559112/5  |                  | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                 | 4 uL                |
| MB 460-559112/8       |                  | 8260C        |       | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |
| 460-165769-C-11       | FSMW-2B 09282018 | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                 |                     |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | BFB 00017 | GASES Li 00281 |  |  |  |  |
|-----------------------|------------------|--------------|-------|-----------|----------------|--|--|--|--|
| BFB<br>460-559112/1   |                  | 8260C        |       | 1 uL      |                |  |  |  |  |
| CCVIS<br>460-559112/3 |                  | 8260C        |       |           | 20 uL          |  |  |  |  |
| LCS<br>460-559112/4   |                  | 8260C        |       |           | 20 uL          |  |  |  |  |
| LCSD<br>460-559112/5  |                  | 8260C        |       |           | 20 uL          |  |  |  |  |
| MB 460-559112/8       |                  | 8260C        |       |           |                |  |  |  |  |
| 460-165769-C-11       | FSMW-2B 09282018 | 8260C        | T     |           |                |  |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |
|             |  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 559235 Batch Start Date: 10/11/18 07:13 Batch Analyst: Moroney, Christopher JBatch Method: 8260C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | 8260ISNEW 00119 | 8260MIX1COMB<br>00087 | 8260SURRE250<br>00183 | ACROLEIN W<br>00081 |
|-----------------------|------------------|--------------|-------|---------------|-------------|-----------------|-----------------------|-----------------------|---------------------|
| BFB<br>460-559235/1   |                  | 8260C        |       | 5 mL          | 5 mL        |                 |                       |                       |                     |
| CCVIS<br>460-559235/3 |                  | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                  | 4 uL                |
| LCS<br>460-559235/4   |                  | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                  | 4 uL                |
| LCSD<br>460-559235/5  |                  | 8260C        |       | 5 mL          | 5 mL        | 1 uL            | 20 uL                 | 1 uL                  | 4 uL                |
| MB 460-559235/8       |                  | 8260C        |       | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                  |                     |
| 460-165769-B-6        | FSMW-8A 09272018 | 8260C        | T     | 5 mL          | 5 mL        | 1 uL            |                       | 1 uL                  |                     |

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | BFB 00017 | GASES Li 00281 |  |  |  |  |
|-----------------------|------------------|--------------|-------|-----------|----------------|--|--|--|--|
| BFB<br>460-559235/1   |                  | 8260C        |       | 1 uL      |                |  |  |  |  |
| CCVIS<br>460-559235/3 |                  | 8260C        |       |           | 20 uL          |  |  |  |  |
| LCS<br>460-559235/4   |                  | 8260C        |       |           | 20 uL          |  |  |  |  |
| LCSD<br>460-559235/5  |                  | 8260C        |       |           | 20 uL          |  |  |  |  |
| MB 460-559235/8       |                  | 8260C        |       |           |                |  |  |  |  |
| 460-165769-B-6        | FSMW-8A 09272018 | 8260C        | T     |           |                |  |  |  |  |

| Batch Notes |  |
|-------------|--|
|             |  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

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# 8270D\_SIM\_MS\_ID

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Semivolatile Organic Compounds  
(GC/MS SIM / Isotope Dilution)

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison

Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Matrix: Water

Level: Low

GC Column (1): Rtxi-5Sil M ID: 0.25 (mm)

| Client Sample ID  | Lab Sample ID           | DXE # |
|-------------------|-------------------------|-------|
| FSMW-14A 09262018 | 460-165769-1            | 40    |
| EB1 092618        | 460-165769-4            | 45    |
| FB1 09262018      | 460-165769-5            | 42    |
| FSMW-8A 09272018  | 460-165769-6            | 40    |
| FSMW-1A 09272018  | 460-165769-7            | 40    |
| EB2 09272018      | 460-165769-8            | 47    |
| FB2 09272018      | 460-165769-9            | 39    |
|                   | MB<br>460-556636/1-A    | 30    |
|                   | MB<br>460-557439/1-A    | 47    |
|                   | 460-165755-A-1-A<br>MS  | 35    |
|                   | 460-165951-E-6-A<br>MS  | 48    |
|                   | 460-165755-A-1-B<br>MSD | 34    |
|                   | 460-165951-E-6-B<br>MSD | 50    |

DXE = 1,4-Dioxane-d8

QC LIMITS  
10-150

# Column to be used to flag recovery values

FORM II 8270D SIM ID



FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison

Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Matrix: Water

Level: Low

GC Column (1): Rtxi-5Sil M ID: 0.25 (mm)

| Client Sample ID | Lab Sample ID         | DXE # |
|------------------|-----------------------|-------|
|                  | LCS<br>460-556636/2-A | 35    |
|                  | LCS<br>460-557439/2-A | 55    |

DXE = 1,4-Dioxane-d8

QC LIMITS  
10-200

# Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: C31555.D  
Lab ID: LCS 460-556636/2-A Client ID: \_\_\_\_\_

| COMPOUND       | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|----------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,4-Dioxane    | 1.60                     | 1.74                           | 109             | 10-200              |   |
| 1,4-Dioxane-d8 | 32.0                     | 11.2                           | 35              | 10-200              |   |

# Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: C31608.D  
Lab ID: LCS 460-557439/2-A Client ID: \_\_\_\_\_

| COMPOUND       | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|----------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,4-Dioxane    | 1.60                     | 1.44                           | 90              | 10-200              |   |
| 1,4-Dioxane-d8 | 32.0                     | 17.7                           | 55              | 10-200              |   |

# Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: C31556.D  
Lab ID: 460-165755-A-1-A MS Client ID: \_\_\_\_\_

| COMPOUND       | SPIKE<br>ADDED<br>(ug/L) | SAMPLE<br>CONCENTRATION<br>(ug/L) | MS<br>CONCENTRATION<br>(ug/L) | MS<br>%<br>REC | QC<br>LIMITS<br>REC | #  |
|----------------|--------------------------|-----------------------------------|-------------------------------|----------------|---------------------|----|
| 1,4-Dioxane    | 1.60                     | 0.016 U                           | 3.75                          | 234            | 70-130              | F1 |
| 1,4-Dioxane-d8 | 32.0                     | 11                                | 11.2                          | 35             | 10-150              |    |

# Column to be used to flag recovery and RPD values  
FORM III 8270D SIM ID

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: C31610.D  
Lab ID: 460-165951-E-6-A MS Client ID: \_\_\_\_\_

| COMPOUND       | SPIKE<br>ADDED<br>(ug/L) | SAMPLE<br>CONCENTRATION<br>(ug/L) | MS<br>CONCENTRATION<br>(ug/L) | MS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|----------------|--------------------------|-----------------------------------|-------------------------------|----------------|---------------------|---|
| 1,4-Dioxane    | 1.60                     | 0.17 J                            | 1.54                          | 86             | 70-130              |   |
| 1,4-Dioxane-d8 | 32.0                     | 14                                | 15.4                          | 48             | 10-150              |   |

# Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: C31557.D  
 Lab ID: 460-165755-A-1-B MSD Client ID: \_\_\_\_\_

| COMPOUND       | SPIKE<br>ADDED<br>(ug/L) | MSD<br>CONCENTRATION<br>(ug/L) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | #  |
|----------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|----|
|                |                          |                                |                 |          | RPD       | REC    |    |
| 1,4-Dioxane    | 1.63                     | 3.72                           | 228             | 1        | 20        | 70-130 | F1 |
| 1,4-Dioxane-d8 | 32.7                     | 11.0                           | 34              |          |           | 10-150 |    |

# Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: C31611.D  
 Lab ID: 460-165951-E-6-B MSD Client ID: \_\_\_\_\_

| COMPOUND       | SPIKE<br>ADDED<br>(ug/L) | MSD<br>CONCENTRATION<br>(ug/L) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|----------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|---|
|                |                          |                                |                 |          | RPD       | REC    |   |
| 1,4-Dioxane    | 1.60                     | 1.58                           | 88              | 2        | 20        | 70-130 |   |
| 1,4-Dioxane-d8 | 32.0                     | 16.1                           | 50              |          |           | 10-150 |   |

# Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: C31554.D Lab Sample ID: MB 460-556636/1-A  
 Matrix: Water Date Extracted: 10/01/2018 23:59  
 Instrument ID: CBNAMS13 Date Analyzed: 10/02/2018 15:14  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID  | LAB SAMPLE ID        | LAB<br>FILE ID | DATE ANALYZED    |
|-------------------|----------------------|----------------|------------------|
|                   | LCS 460-556636/2-A   | C31555.D       | 10/02/2018 15:31 |
|                   | 460-165755-A-1-A MS  | C31556.D       | 10/02/2018 15:49 |
|                   | 460-165755-A-1-B MSD | C31557.D       | 10/02/2018 16:06 |
| FSMW-14A 09262018 | 460-165769-1         | C31563.D       | 10/02/2018 17:50 |
| EB1 092618        | 460-165769-4         | C31564.D       | 10/02/2018 18:07 |
| FB1 09262018      | 460-165769-5         | C31565.D       | 10/02/2018 18:25 |
| FSMW-8A 09272018  | 460-165769-6         | C31566.D       | 10/02/2018 18:42 |
| FSMW-1A 09272018  | 460-165769-7         | C31567.D       | 10/02/2018 18:59 |
| FB2 09272018      | 460-165769-9         | C31568.D       | 10/02/2018 19:17 |



FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab File ID: C31607.D Lab Sample ID: MB 460-557439/1-A  
Matrix: Water Date Extracted: 10/04/2018 16:08  
Instrument ID: CBNAMS13 Date Analyzed: 10/05/2018 06:25  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID        | LAB<br>FILE ID | DATE ANALYZED    |
|------------------|----------------------|----------------|------------------|
|                  | LCS 460-557439/2-A   | C31608.D       | 10/05/2018 06:42 |
|                  | 460-165951-E-6-A MS  | C31610.D       | 10/05/2018 07:17 |
|                  | 460-165951-E-6-B MSD | C31611.D       | 10/05/2018 07:34 |
| EB2 09272018     | 460-165769-8         | C31618.D       | 10/05/2018 09:36 |

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab File ID: C28985.D DFTPP Injection Date: 05/11/2018  
Instrument ID: CBNAMS13 DFTPP Injection Time: 12:33  
Analysis Batch No.: 518314

| M/E | ION ABUNDANCE CRITERIA              | % RELATIVE ABUNDANCE |
|-----|-------------------------------------|----------------------|
| 51  | 30.0 - 60.0 % of mass 198           | 42.1                 |
| 68  | Less than 2.0 % of mass 69          | 0.7 (1.8) 1          |
| 69  | Mass 69 relative abundance          | 40.1                 |
| 70  | Less than 2.0 % of mass 69          | 0.2 (0.4) 1          |
| 127 | 40.0 - 60.0 % of mass 198           | 47.0                 |
| 197 | Less than 1.0 % of mass 198         | 0.0                  |
| 198 | Base Peak, 100 % relative abundance | 100.0                |
| 199 | 5.0- 9.0 % of mass 198              | 6.7                  |
| 275 | 10.0 - 30.0 % of mass 198           | 26.5                 |
| 365 | Greater than 1.0 % of mass 198      | 3.4                  |
| 441 | Present but less than mass 443      | 15.2 (79.7) 3        |
| 442 | Greater than 40.0 % of mass 198     | 94.8                 |
| 443 | 17.0 - 23.0 % of mass 442           | 19.1 (20.1) 2        |

1-Value is % mass 69                      2-Value is % mass 442                      3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID     | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|-------------------|-------------|---------------|---------------|
|                  | ICIS 460-518314/2 | C28986.D    | 05/11/2018    | 12:48         |
|                  | STD8 460-518314/3 | C28987.D    | 05/11/2018    | 13:08         |
|                  | STD7 460-518314/4 | C28988.D    | 05/11/2018    | 13:27         |
|                  | STD6 460-518314/5 | C28989.D    | 05/11/2018    | 14:16         |
|                  | STD4 460-518314/6 | C28990.D    | 05/11/2018    | 14:35         |
|                  | STD3 460-518314/7 | C28991.D    | 05/11/2018    | 15:44         |
|                  | STD2 460-518314/8 | C28992.D    | 05/11/2018    | 16:02         |
|                  | STD1 460-518314/9 | C28993.D    | 05/11/2018    | 17:20         |

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab File ID: C31529.D DFTPP Injection Date: 10/02/2018  
Instrument ID: CBNAMS13 DFTPP Injection Time: 07:30  
Analysis Batch No.: 556593

| M/E | ION ABUNDANCE CRITERIA              | % RELATIVE ABUNDANCE |
|-----|-------------------------------------|----------------------|
| 51  | 30.0 - 60.0 % of mass 198           | 35.1                 |
| 68  | Less than 2.0 % of mass 69          | 0.6 (1.7) 1          |
| 69  | Mass 69 relative abundance          | 35.6                 |
| 70  | Less than 2.0 % of mass 69          | 0.2 (0.6) 1          |
| 127 | 40.0 - 60.0 % of mass 198           | 46.4                 |
| 197 | Less than 1.0 % of mass 198         | 0.6                  |
| 198 | Base Peak, 100 % relative abundance | 100.0                |
| 199 | 5.0- 9.0 % of mass 198              | 7.1                  |
| 275 | 10.0 - 30.0 % of mass 198           | 26.6                 |
| 365 | Greater than 1.0 % of mass 198      | 3.2                  |
| 441 | Present but less than mass 443      | 14.3 (80.1) 3        |
| 442 | Greater than 40.0 % of mass 198     | 92.3                 |
| 443 | 17.0 - 23.0 % of mass 442           | 17.9 (19.4) 2        |

1-Value is % mass 69                      2-Value is % mass 442                      3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID  | LAB SAMPLE ID        | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-------------------|----------------------|-------------|---------------|---------------|
|                   | CCVIS 460-556593/2   | C31530.D    | 10/02/2018    | 08:13         |
|                   | MB 460-556636/1-A    | C31554.D    | 10/02/2018    | 15:14         |
|                   | LCS 460-556636/2-A   | C31555.D    | 10/02/2018    | 15:31         |
|                   | 460-165755-A-1-A MS  | C31556.D    | 10/02/2018    | 15:49         |
|                   | 460-165755-A-1-B MSD | C31557.D    | 10/02/2018    | 16:06         |
| FSMW-14A 09262018 | 460-165769-1         | C31563.D    | 10/02/2018    | 17:50         |
| EB1 092618        | 460-165769-4         | C31564.D    | 10/02/2018    | 18:07         |
| FB1 09262018      | 460-165769-5         | C31565.D    | 10/02/2018    | 18:25         |
| FSMW-8A 09272018  | 460-165769-6         | C31566.D    | 10/02/2018    | 18:42         |
| FSMW-1A 09272018  | 460-165769-7         | C31567.D    | 10/02/2018    | 18:59         |
| FB2 09272018      | 460-165769-9         | C31568.D    | 10/02/2018    | 19:17         |

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab File ID: C31605.D DFTPP Injection Date: 10/05/2018  
Instrument ID: CBNAMS13 DFTPP Injection Time: 05:37  
Analysis Batch No.: 557609

| M/E | ION ABUNDANCE CRITERIA              | % RELATIVE ABUNDANCE |
|-----|-------------------------------------|----------------------|
| 51  | 30.0 - 60.0 % of mass 198           | 34.7                 |
| 68  | Less than 2.0 % of mass 69          | 0.5 (1.5) 1          |
| 69  | Mass 69 relative abundance          | 35.4                 |
| 70  | Less than 2.0 % of mass 69          | 0.2 (0.5) 1          |
| 127 | 40.0 - 60.0 % of mass 198           | 45.8                 |
| 197 | Less than 1.0 % of mass 198         | 0.6                  |
| 198 | Base Peak, 100 % relative abundance | 100.0                |
| 199 | 5.0- 9.0 % of mass 198              | 7.0                  |
| 275 | 10.0 - 30.0 % of mass 198           | 26.3                 |
| 365 | Greater than 1.0 % of mass 198      | 3.0                  |
| 441 | Present but less than mass 443      | 14.3 (79.3) 3        |
| 442 | Greater than 40.0 % of mass 198     | 93.3                 |
| 443 | 17.0 - 23.0 % of mass 442           | 18.0 (19.3) 2        |

1-Value is % mass 69                      2-Value is % mass 442                      3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID        | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|----------------------|-------------|---------------|---------------|
|                  | CCVIS 460-557609/2   | C31606.D    | 10/05/2018    | 05:58         |
|                  | MB 460-557439/1-A    | C31607.D    | 10/05/2018    | 06:25         |
|                  | LCS 460-557439/2-A   | C31608.D    | 10/05/2018    | 06:42         |
|                  | 460-165951-E-6-A MS  | C31610.D    | 10/05/2018    | 07:17         |
|                  | 460-165951-E-6-B MSD | C31611.D    | 10/05/2018    | 07:34         |
| EB2 09272018     | 460-165769-8         | C31618.D    | 10/05/2018    | 09:36         |

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-556593/2 Date Analyzed: 10/02/2018 08:13  
 Instrument ID: CBNAMS13 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): C31530.D Heated Purge: (Y/N) N  
 Calibration ID: 68479

|                      |                   | DCBd4  |      |        |      |        |      |
|----------------------|-------------------|--------|------|--------|------|--------|------|
|                      |                   | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD       |                   | 441778 | 5.67 |        |      |        |      |
| UPPER LIMIT          |                   |        |      |        |      |        |      |
| LOWER LIMIT          |                   |        |      |        |      |        |      |
| LAB SAMPLE ID        | CLIENT SAMPLE ID  |        |      |        |      |        |      |
| MB 460-556636/1-A    |                   | 414887 | 5.67 |        |      |        |      |
| LCS 460-556636/2-A   |                   | 385635 | 5.66 |        |      |        |      |
| 460-165755-A-1-A MS  |                   | 399237 | 5.67 |        |      |        |      |
| 460-165755-A-1-B MSD |                   | 398836 | 5.67 |        |      |        |      |
| 460-165769-1         | FSMW-14A 09262018 | 375719 | 5.67 |        |      |        |      |
| 460-165769-4         | EB1 092618        | 381702 | 5.67 |        |      |        |      |
| 460-165769-5         | FB1 09262018      | 367737 | 5.67 |        |      |        |      |
| 460-165769-6         | FSMW-8A 09272018  | 383136 | 5.67 |        |      |        |      |
| 460-165769-7         | FSMW-1A 09272018  | 378086 | 5.67 |        |      |        |      |
| 460-165769-9         | FB2 09272018      | 351953 | 5.67 |        |      |        |      |

# Column used to flag values outside QC limits

FORM VIII  
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-557609/2 Date Analyzed: 10/05/2018 05:58  
 Instrument ID: CBNAMS13 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): C31606.D Heated Purge: (Y/N) N  
 Calibration ID: 68479

|                      |                  | DCBd4  |      |        |      |        |      |
|----------------------|------------------|--------|------|--------|------|--------|------|
|                      |                  | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD       |                  | 423576 | 5.67 |        |      |        |      |
| UPPER LIMIT          |                  |        |      |        |      |        |      |
| LOWER LIMIT          |                  |        |      |        |      |        |      |
| LAB SAMPLE ID        | CLIENT SAMPLE ID |        |      |        |      |        |      |
| MB 460-557439/1-A    |                  | 347921 | 5.67 |        |      |        |      |
| LCS 460-557439/2-A   |                  | 354262 | 5.67 |        |      |        |      |
| 460-165951-E-6-A MS  |                  | 365960 | 5.66 |        |      |        |      |
| 460-165951-E-6-B MSD |                  | 353443 | 5.67 |        |      |        |      |
| 460-165769-8         | EB2 09272018     | 341835 | 5.66 |        |      |        |      |

# Column used to flag values outside QC limits

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: FSMW-14A 09262018 Lab Sample ID: 460-165769-1  
 Matrix: Water Lab File ID: C31563.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/26/2018 11:05  
 Extract. Method: 3510C Date Extracted: 10/01/2018 23:59  
 Sample wt/vol: 245 (mL) Date Analyzed: 10/02/2018 17:50  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 5 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 556593 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 0.26   |   | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 40   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31563.D  
 Lims ID: 460-165769-F-1-A  
 Client ID: FSMW-14A 09262018  
 Sample Type: Client  
 Inject. Date: 02-Oct-2018 17:50:30 ALS Bottle#: 35 Worklist Smp#: 35  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079574-035  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK014

First Level Reviewer: khlungprakhons

Date: 03-Oct-2018 16:26:43

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/ml | %Rec | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|--------------------|------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.952        | 2.952            | 0.000            | 0  | 1192770  | 1.61               | 40.2 |       |
| 2 1,4-Dioxane              | 88  | 2.980        | 2.980            | 0.000            | 85 | 12313    | 0.0319             |      |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 97 | 375719   | 0.2000             |      |       |

**Reagents:**

SM\_iso\_d4istd\_00003                      Amount Added: 20.00                      Units: uL                      Run Reagent



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31563.D

Injection Date: 02-Oct-2018 17:50:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165769-F-1-A

Lab Sample ID: 460-165769-1

Worklist Smp#: 35

Client ID: FSMW-14A 09262018

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

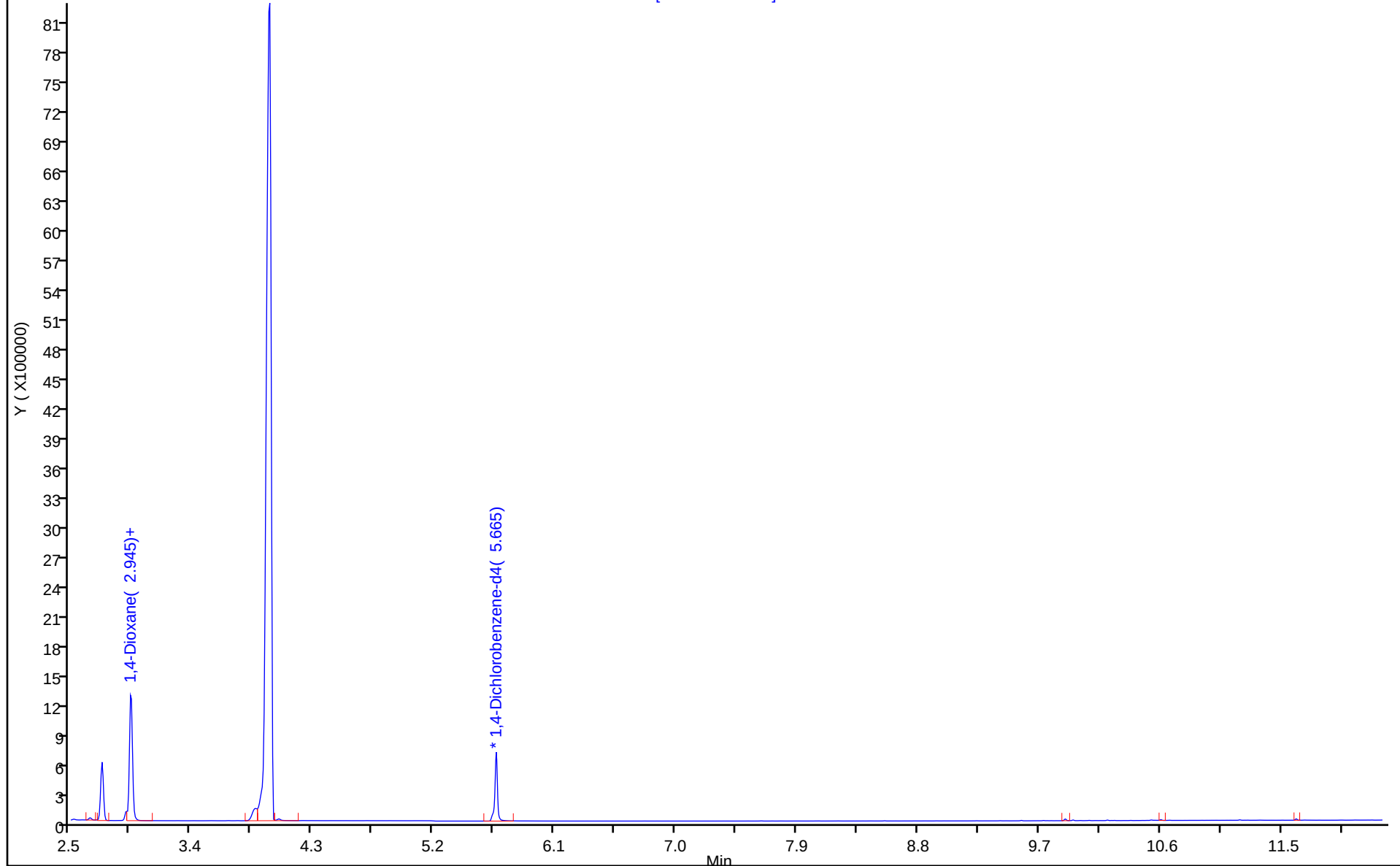
ALS Bottle#: 35

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

C31563[MS SCAN Chro]:Total



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31563.D

Injection Date: 02-Oct-2018 17:50:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-F-1-A

Lab Sample ID: 460-165769-1

Client ID: FSMW-14A 09262018

Operator ID:

ALS Bottle#:

35

Worklist Smp#:

35

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

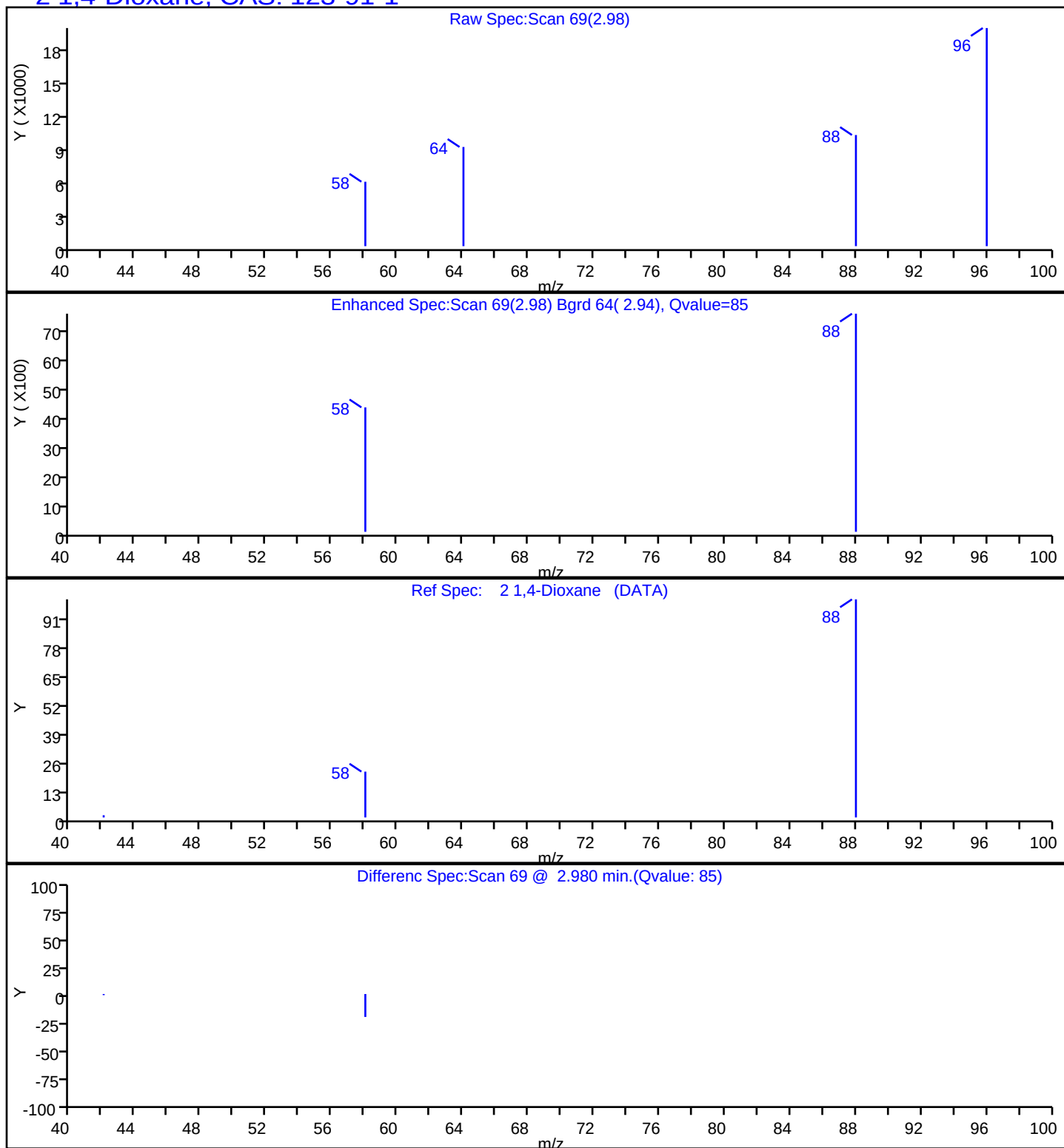
Limit Group:

MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

Detector

MS SCAN

**2 1,4-Dioxane, CAS: 123-91-1**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31563.D

Injection Date: 02-Oct-2018 17:50:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-F-1-A

Lab Sample ID: 460-165769-1

Client ID: FSMW-14A 09262018

Operator ID:

ALS Bottle#:

35

Worklist Smp#:

35

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

Limit Group:

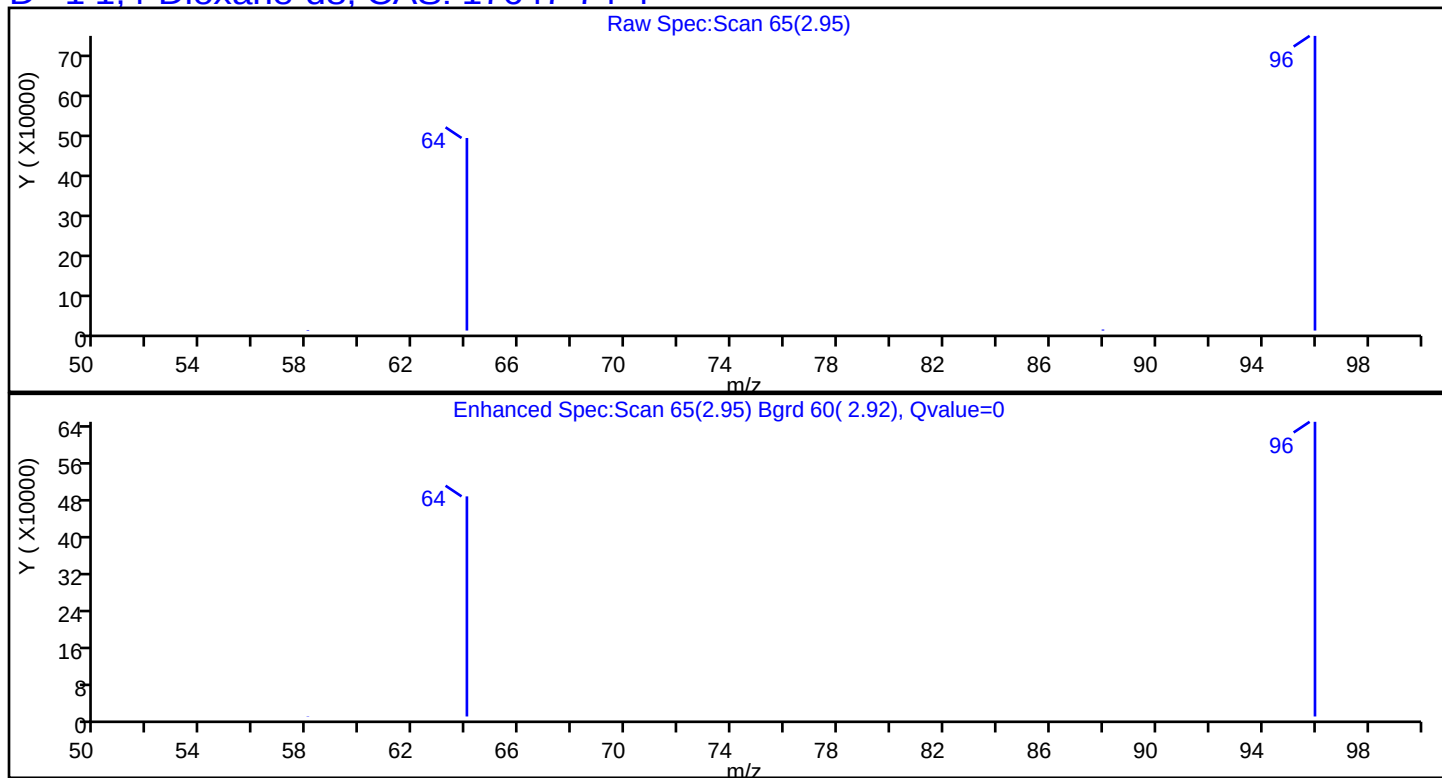
MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

## D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EB1 092618 Lab Sample ID: 460-165769-4  
Matrix: Water Lab File ID: C31564.D  
Analysis Method: 8270D SIM ID Date Collected: 09/26/2018 11:20  
Extract. Method: 3510C Date Extracted: 10/01/2018 23:59  
Sample wt/vol: 245 (mL) Date Analyzed: 10/02/2018 18:07  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 556593 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 0.016  | U | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 45   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31564.D  
 Lims ID: 460-165769-G-4-A  
 Client ID: EB1 092618  
 Sample Type: Client  
 Inject. Date: 02-Oct-2018 18:07:30 ALS Bottle#: 36 Worklist Smp#: 36  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079574-036  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK014

First Level Reviewer: khlungprakhons

Date: 03-Oct-2018 16:27:01

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | OnCol Amt<br>ug/ml | %Rec | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|--------------------|------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|--------------------|------|-------|

|     |                        |     |       |       |        |    |         |        |      |
|-----|------------------------|-----|-------|-------|--------|----|---------|--------|------|
| D 1 | 1,4-Dioxane-d8         | 96  | 2.945 | 2.952 | -0.007 | 0  | 1354947 | 1.80   | 44.9 |
| * 4 | 1,4-Dichlorobenzene-d4 | 152 | 5.665 | 5.665 | 0.000  | 97 | 381702  | 0.2000 |      |

**Reagents:**

SM\_iso\_d4istd\_00003                      Amount Added: 20.00                      Units: uL                      Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31564.D

Injection Date: 02-Oct-2018 18:07:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165769-G-4-A

Lab Sample ID: 460-165769-4

Worklist Smp#: 36

Client ID: EB1 092618

Injection Vol: 5.0 ul

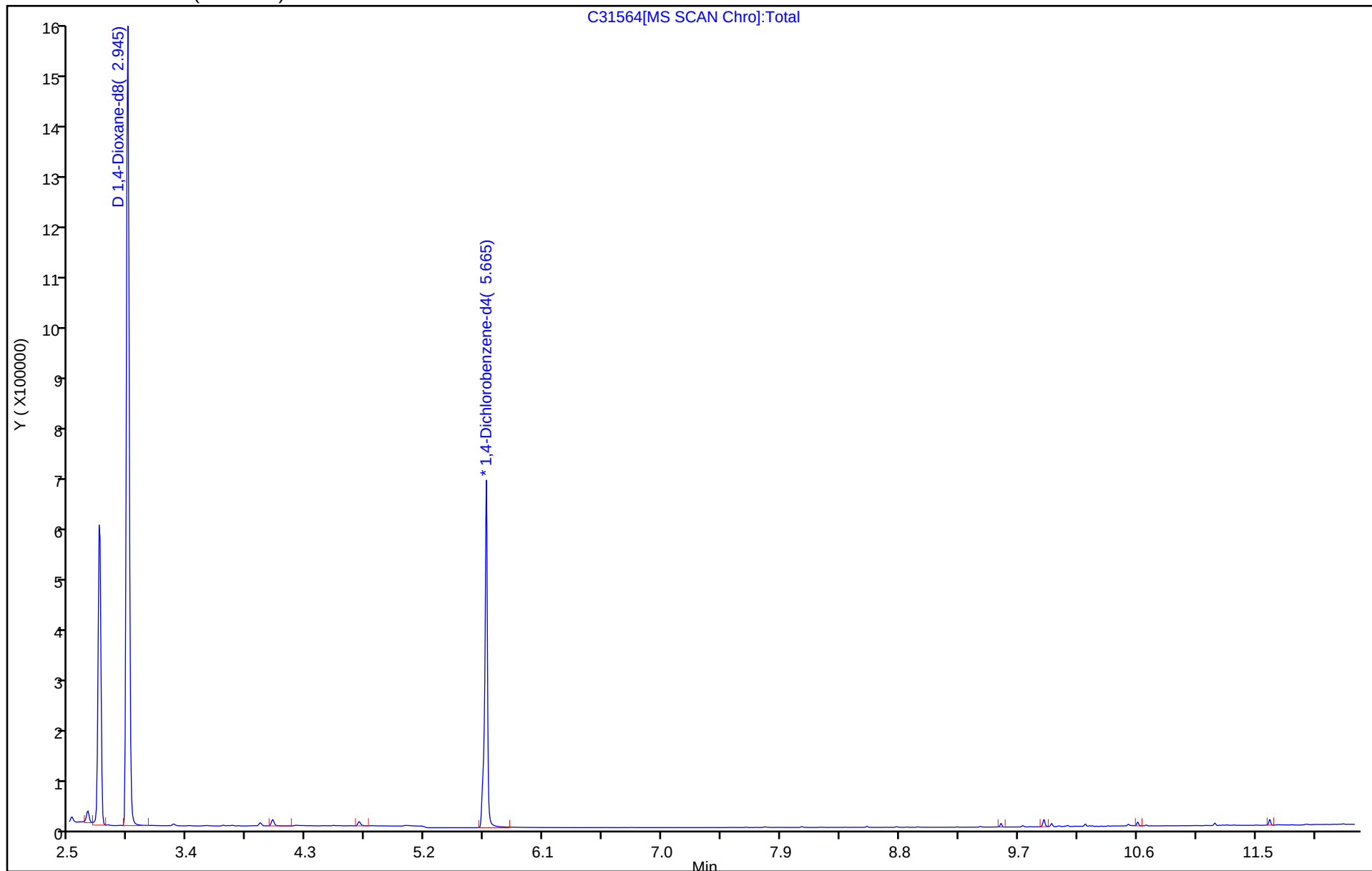
Dil. Factor: 1.0000

ALS Bottle#: 36

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31564.D

Injection Date: 02-Oct-2018 18:07:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-G-4-A

Lab Sample ID: 460-165769-4

Client ID: EB1 092618

Operator ID:

ALS Bottle#:

36

Worklist Smp#:

36

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

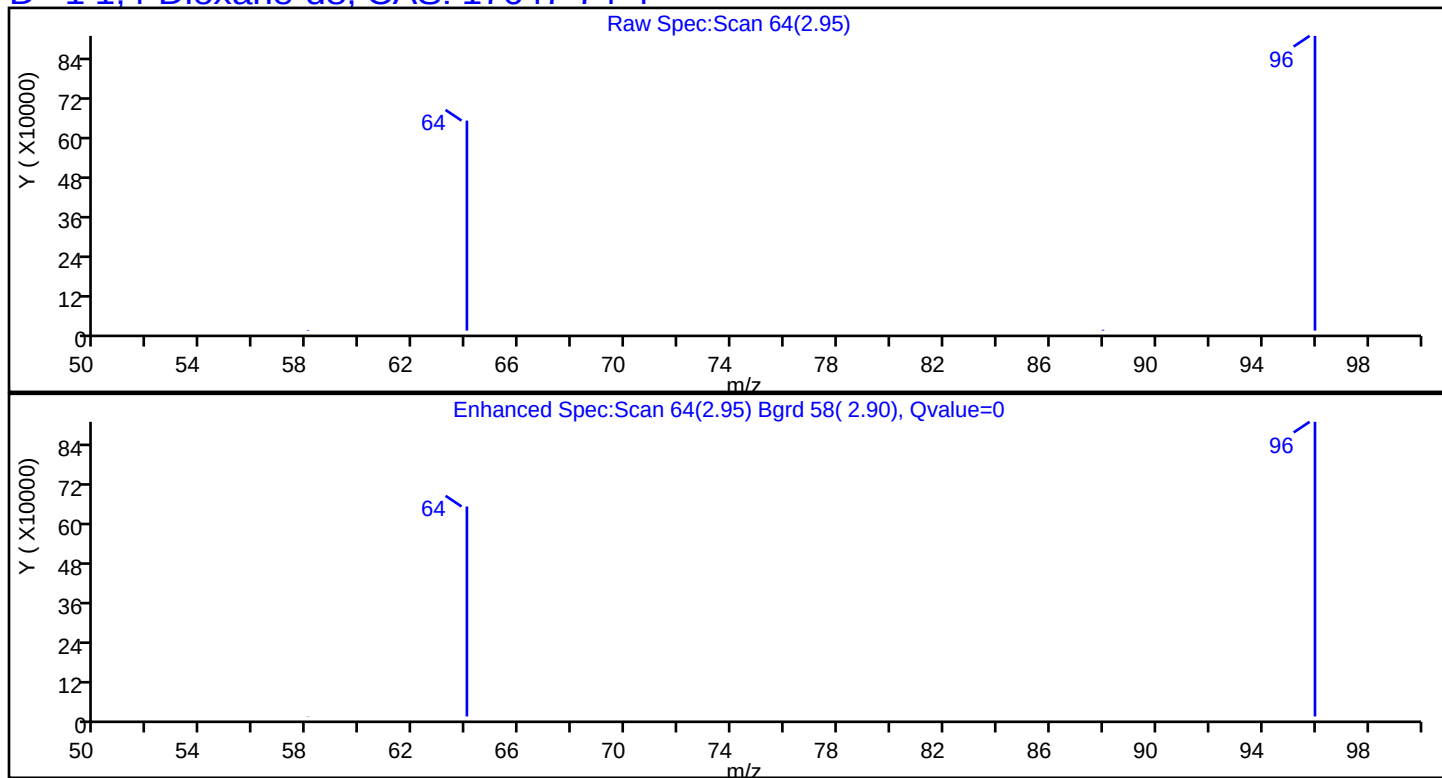
Limit Group:

MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31564.D

Injection Date: 02-Oct-2018 18:07:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-G-4-A

Lab Sample ID: 460-165769-4

Client ID: EB1 092618

Operator ID:

ALS Bottle#:

36

Worklist Smp#: 36

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

Limit Group:

MSS 8270 Isotope Dilution IS

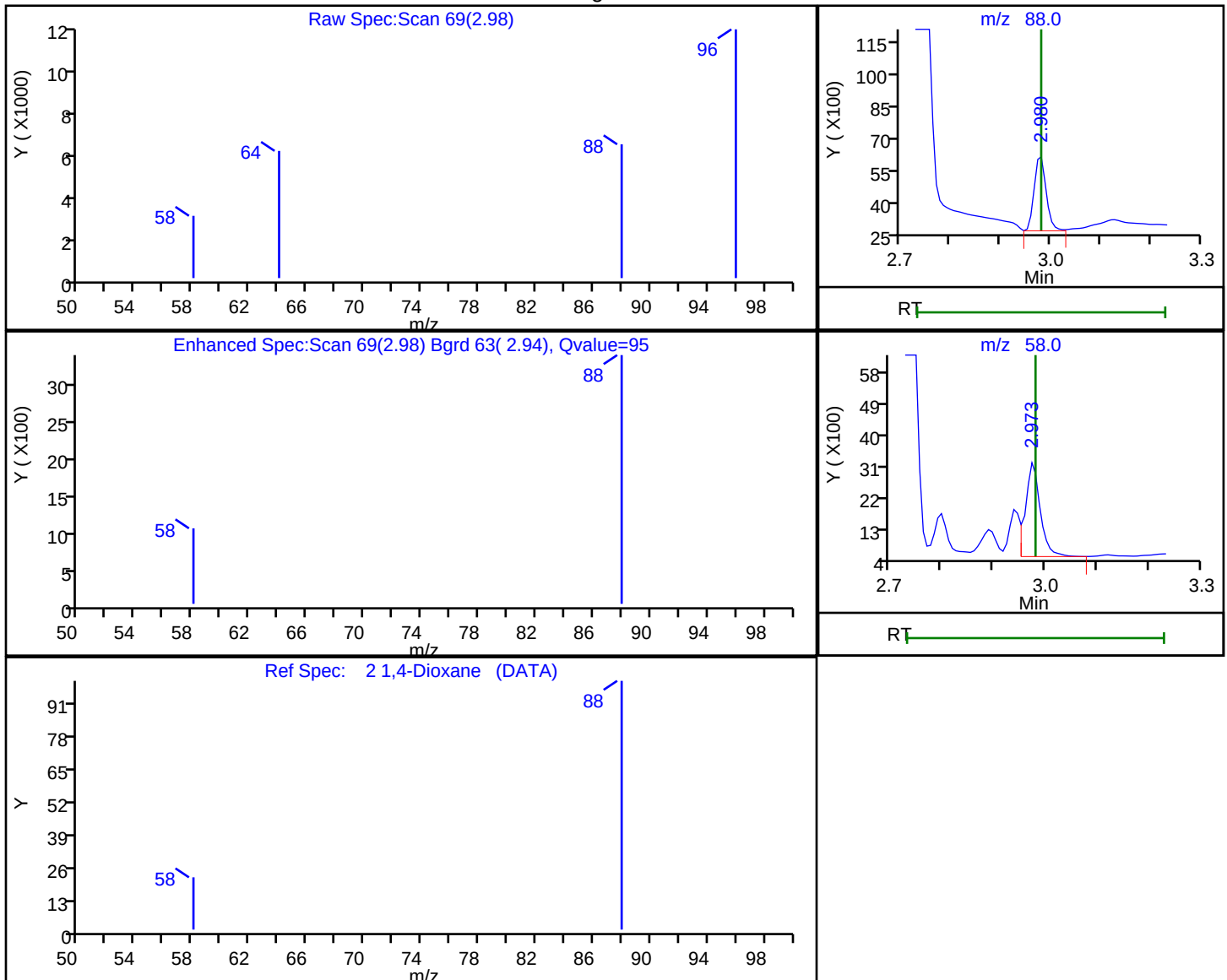
Column: Rtxi-5Sil MS ( 0.25 mm)

Detector

MS SCAN

## 2 1,4-Dioxane, CAS: 123-91-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.98 | 88.00 | 5917     | 0.013491 |
| 2.97 | 58.00 | 5422     |          |

Reviewer: khlungprakhons, 03-Oct-2018 16:26:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FB1 09262018 Lab Sample ID: 460-165769-5  
Matrix: Water Lab File ID: C31565.D  
Analysis Method: 8270D SIM ID Date Collected: 09/26/2018 13:00  
Extract. Method: 3510C Date Extracted: 10/01/2018 23:59  
Sample wt/vol: 245 (mL) Date Analyzed: 10/02/2018 18:25  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 556593 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 0.016  | U | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 42   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31565.D  
Lims ID: 460-165769-E-5-A  
Client ID: FB1 09262018  
Sample Type: Client  
Inject. Date: 02-Oct-2018 18:25:30 ALS Bottle#: 37 Worklist Smp#: 37  
Injection Vol: 5.0 ul Dil. Factor: 1.0000  
Sample Info: 460-0079574-037  
Operator ID: Instrument ID: CBNAMS13  
Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
Limit Group: MSS 8270 Isotope Dilution IS  
Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
Integrator: RTE ID Type: RT Order ID  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
Process Host: XAWRK014

First Level Reviewer: khlungprakhons

Date: 03-Oct-2018 16:27:19

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/ml | %Rec | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|--------------------|------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.945        | 2.952            | -0.007           | 0  | 1211626  | 1.67               | 41.7 |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 97 | 367737   | 0.2000             |      |       |

## Reagents:

SM\_iso\_d4istd\_00003 Amount Added: 20.00 Units: uL Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31565.D

Injection Date: 02-Oct-2018 18:25:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165769-E-5-A

Lab Sample ID: 460-165769-5

Worklist Smp#: 37

Client ID: FB1 09262018

Injection Vol: 5.0 ul

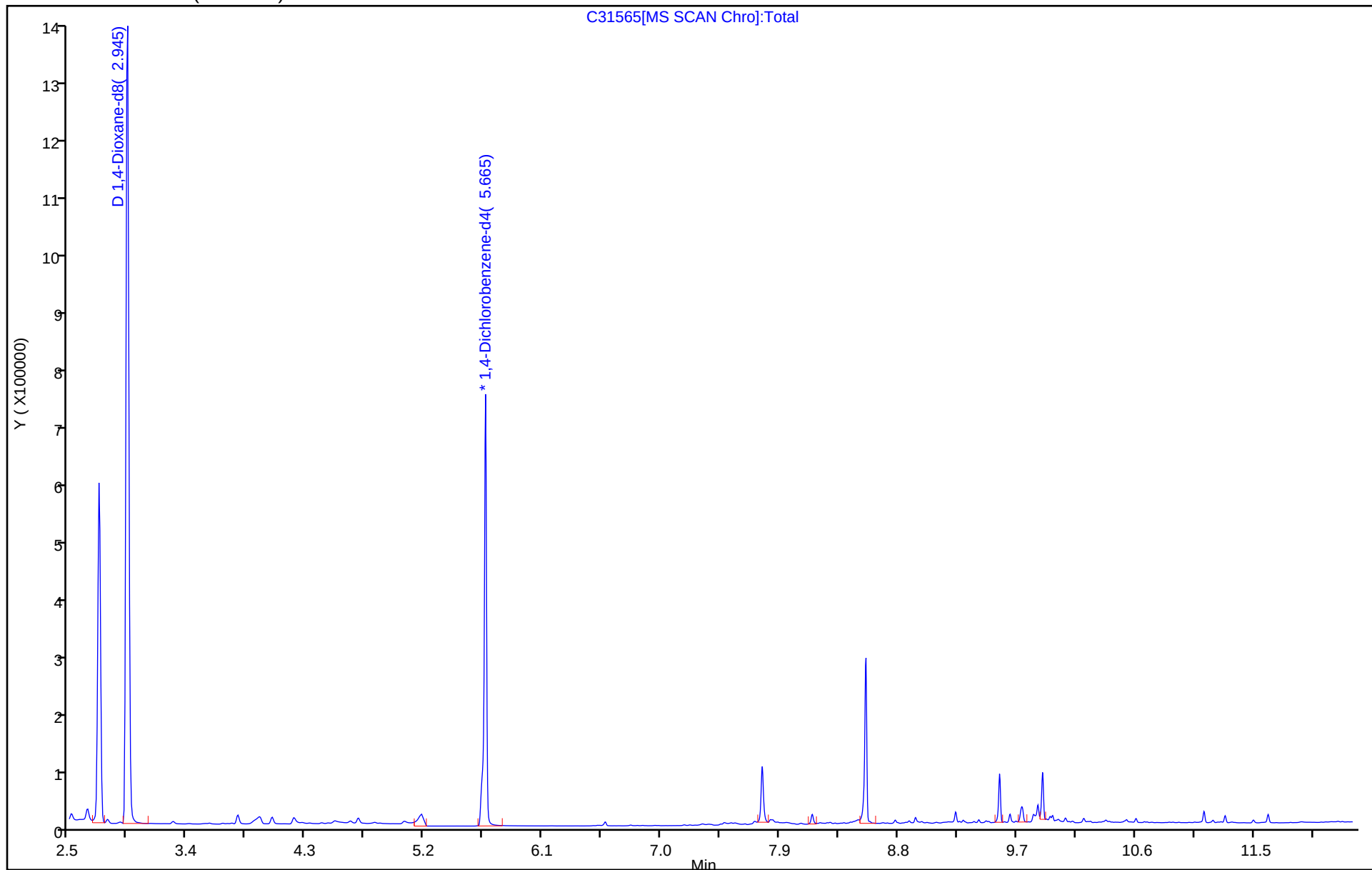
Dil. Factor: 1.0000

ALS Bottle#: 37

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31565.D

Injection Date: 02-Oct-2018 18:25:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-E-5-A

Lab Sample ID: 460-165769-5

Client ID: FB1 09262018

Operator ID:

ALS Bottle#:

37

Worklist Smp#:

37

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

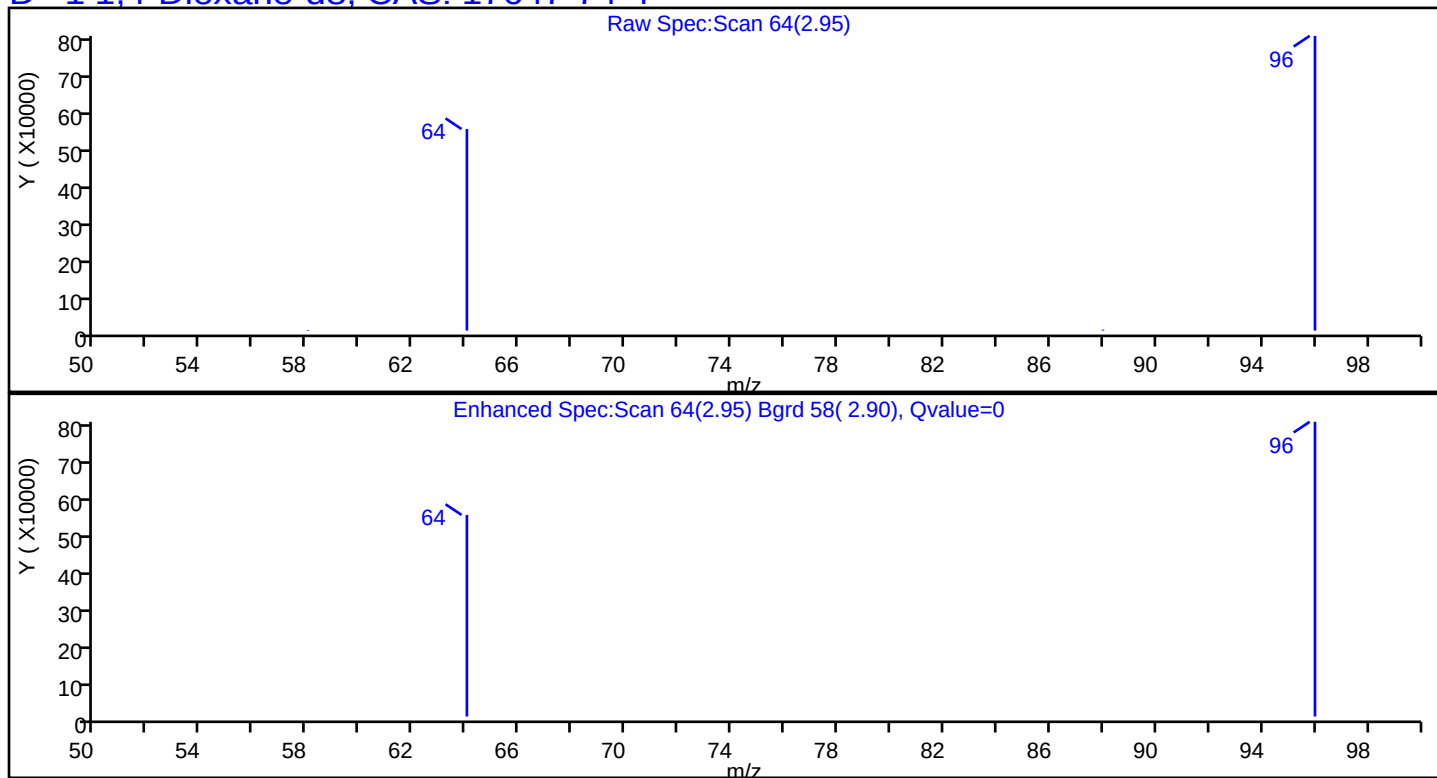
Limit Group:

MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31565.D

Injection Date: 02-Oct-2018 18:25:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-E-5-A

Lab Sample ID: 460-165769-5

Client ID: FB1 09262018

Operator ID:

ALS Bottle#:

37

Worklist Smp#: 37

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270\_Isotope

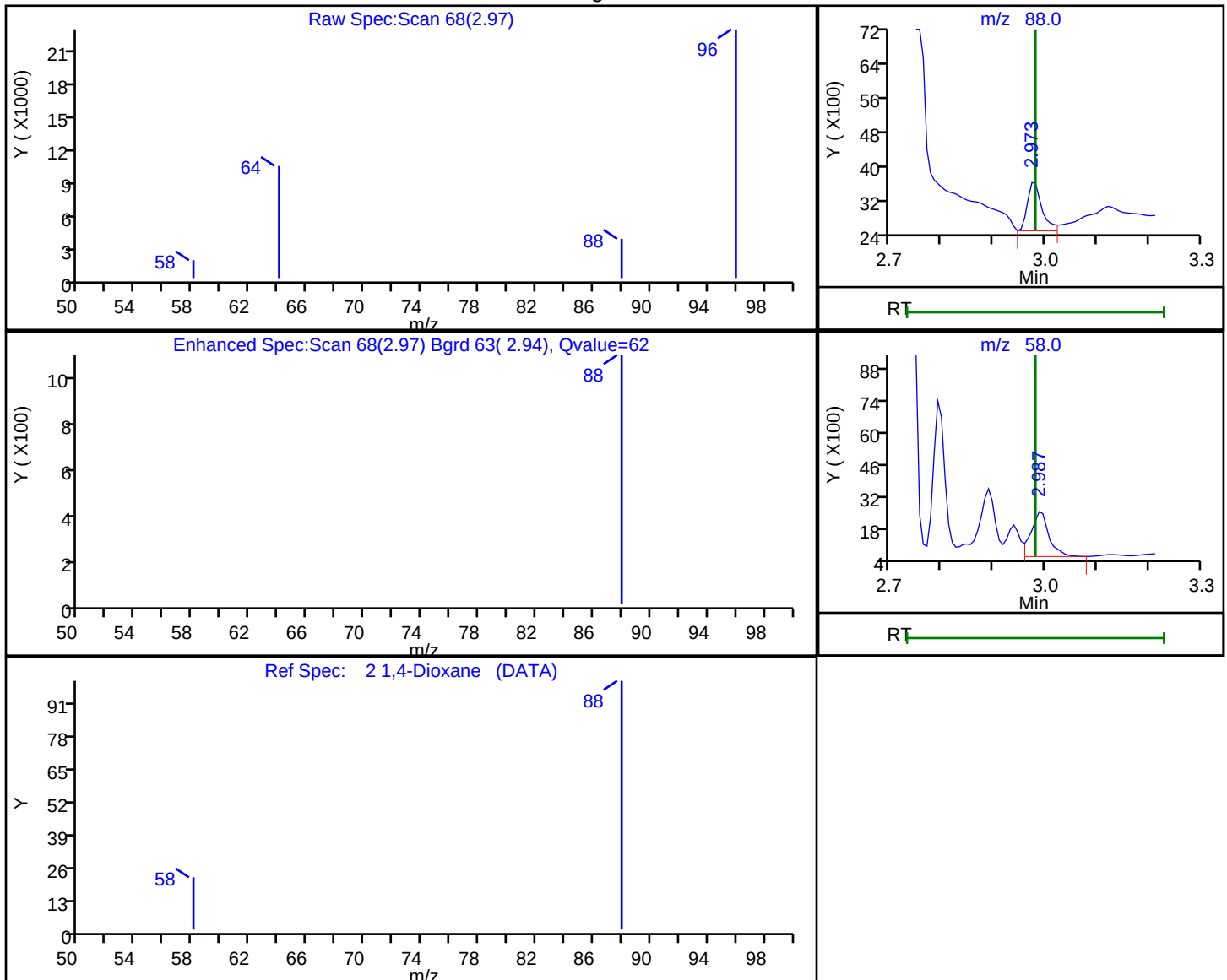
Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

## 2 1,4-Dioxane, CAS: 123-91-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.97 | 88.00 | 2234     | 0.005696 |
| 2.99 | 58.00 | 4778     |          |

Reviewer: khlungprakhons, 03-Oct-2018 16:27:18

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: FSMW-8A 09272018 Lab Sample ID: 460-165769-6  
 Matrix: Water Lab File ID: C31566.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/27/2018 11:00  
 Extract. Method: 3510C Date Extracted: 10/01/2018 23:59  
 Sample wt/vol: 245 (mL) Date Analyzed: 10/02/2018 18:42  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 5 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 556593 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 0.016  | U | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 40   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31566.D  
 Lims ID: 460-165769-F-6-A  
 Client ID: FSMW-8A 09272018  
 Sample Type: Client  
 Inject. Date: 02-Oct-2018 18:42:30 ALS Bottle#: 38 Worklist Smp#: 38  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079574-038  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK014

First Level Reviewer: khlungprakhons

Date: 03-Oct-2018 16:27:37

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | OnCol Amt<br>ug/ml | %Rec | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|--------------------|------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|--------------------|------|-------|

|     |                        |     |       |       |        |    |         |        |      |
|-----|------------------------|-----|-------|-------|--------|----|---------|--------|------|
| D 1 | 1,4-Dioxane-d8         | 96  | 2.945 | 2.952 | -0.007 | 0  | 1216034 | 1.61   | 40.1 |
| * 4 | 1,4-Dichlorobenzene-d4 | 152 | 5.665 | 5.665 | 0.000  | 97 | 383136  | 0.2000 |      |

**Reagents:**

SM\_iso\_d4istd\_00003                      Amount Added: 20.00                      Units: uL                      Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31566.D

Injection Date: 02-Oct-2018 18:42:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165769-F-6-A

Lab Sample ID: 460-165769-6

Worklist Smp#: 38

Client ID: FSMW-8A 09272018

Injection Vol: 5.0 ul

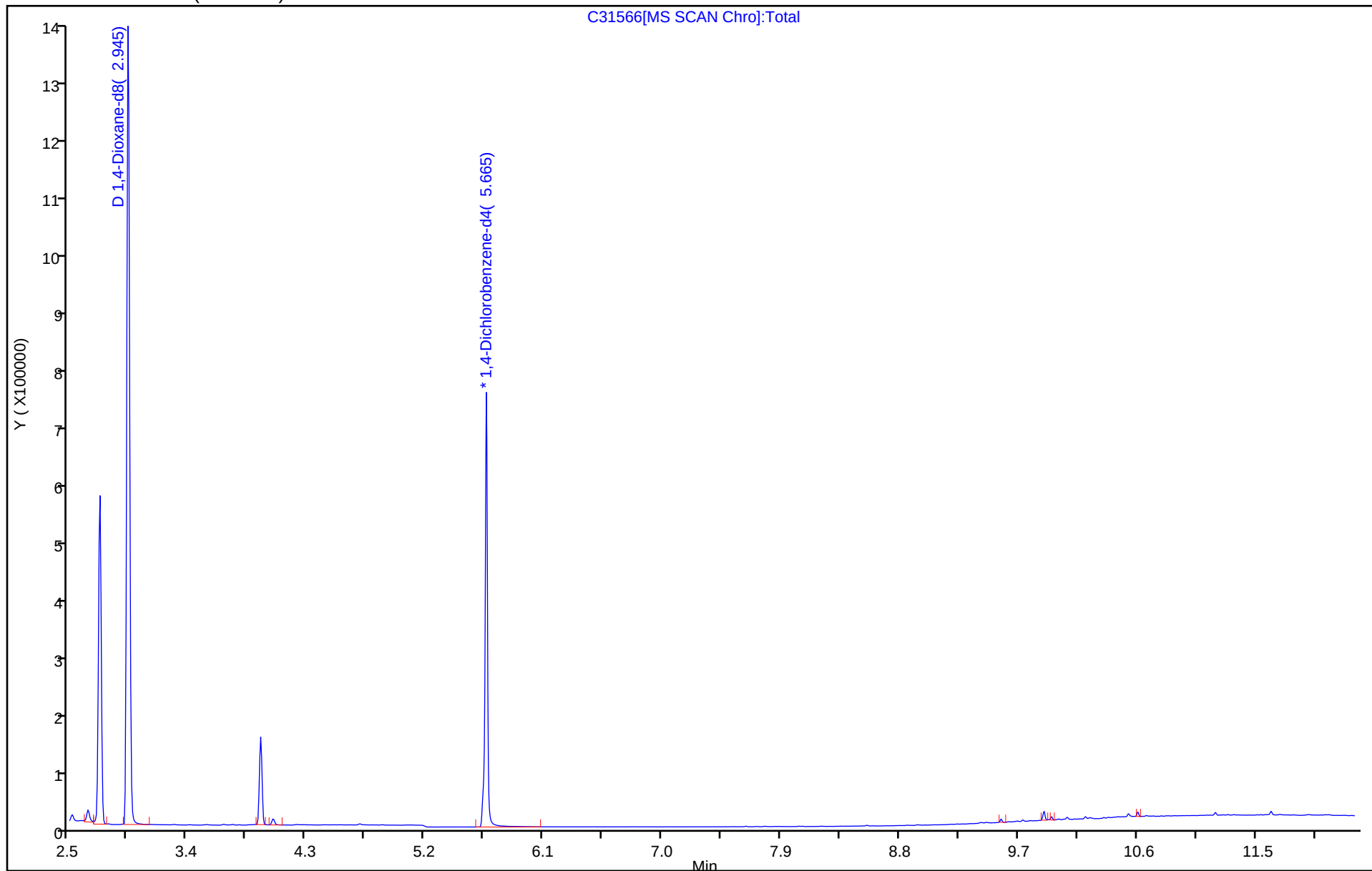
Dil. Factor: 1.0000

ALS Bottle#: 38

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)





## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31566.D

Injection Date: 02-Oct-2018 18:42:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-F-6-A

Lab Sample ID: 460-165769-6

Client ID: FSMW-8A 09272018

Operator ID:

ALS Bottle#:

38

Worklist Smp#:

38

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

Limit Group:

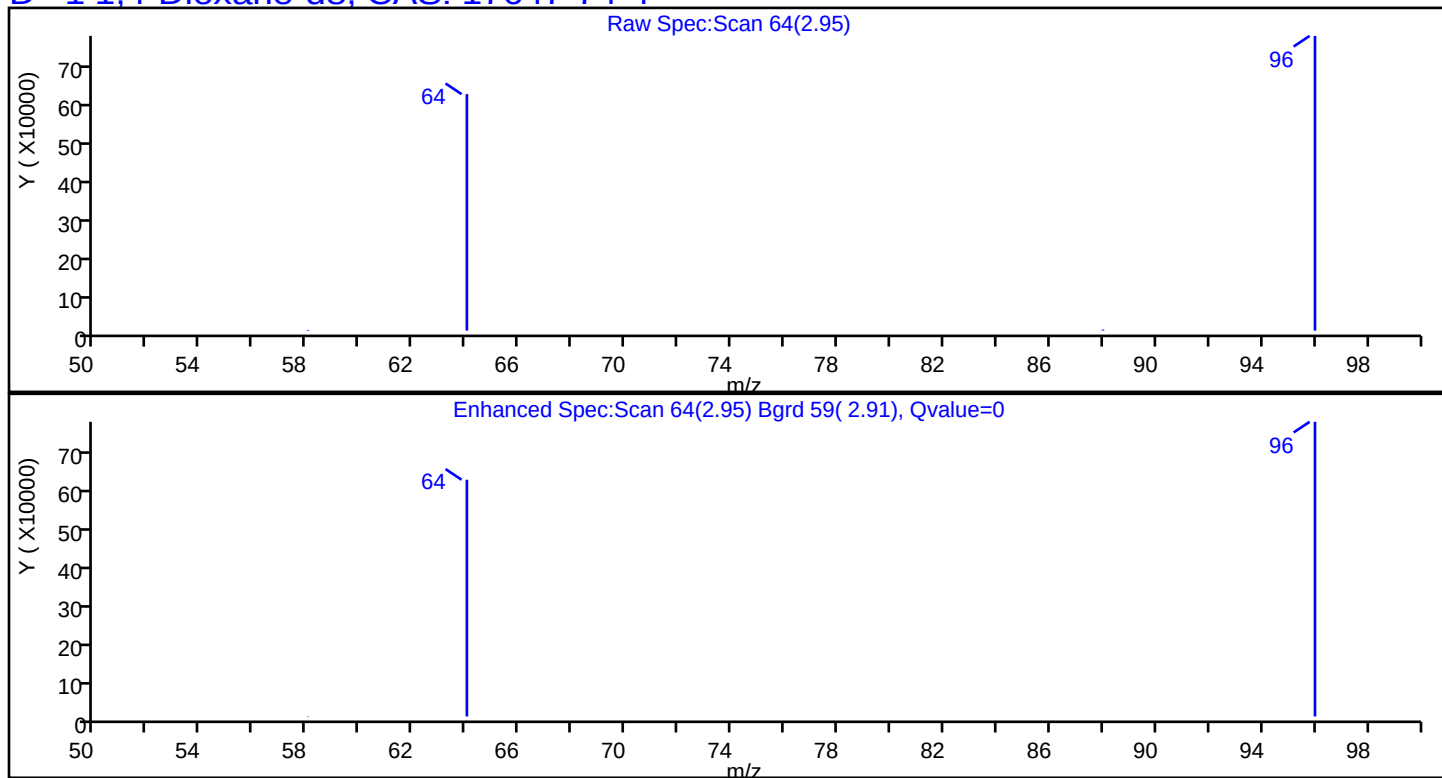
MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

Detector

MS SCAN

## D 1 1,4-Dioxane-d8, CAS: 17647-74-4



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31566.D

Injection Date: 02-Oct-2018 18:42:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-F-6-A

Lab Sample ID: 460-165769-6

Client ID: FSMW-8A 09272018

Operator ID:

ALS Bottle#:

38

Worklist Smp#: 38

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270\_Isotope

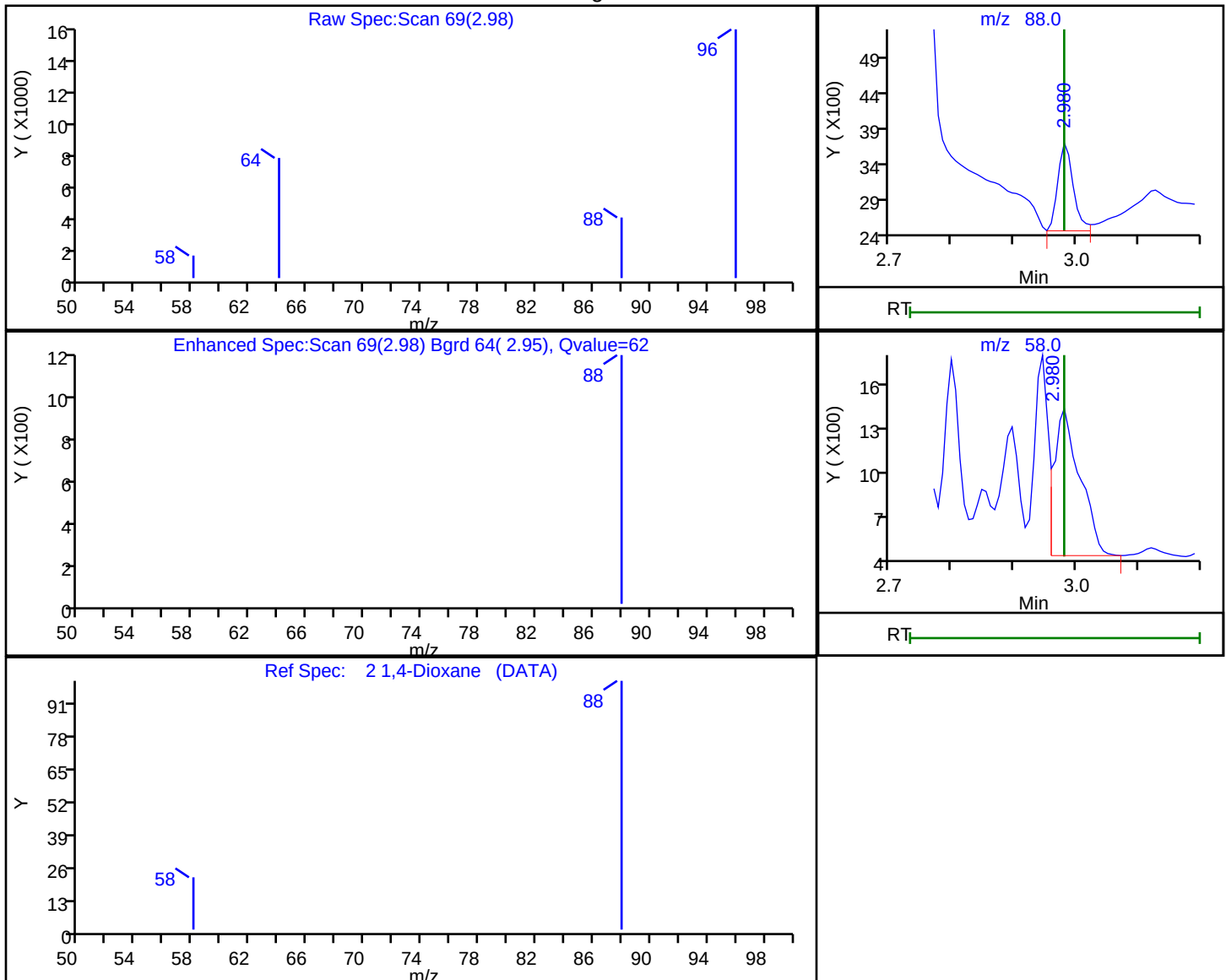
Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

## 2 1,4-Dioxane, CAS: 123-91-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.98 | 88.00 | 2139     | 0.005434 |
| 2.98 | 58.00 | 2683     |          |

Reviewer: khlungprakhons, 03-Oct-2018 16:27:35

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FSMW-1A 09272018 Lab Sample ID: 460-165769-7  
Matrix: Water Lab File ID: C31567.D  
Analysis Method: 8270D SIM ID Date Collected: 09/27/2018 14:20  
Extract. Method: 3510C Date Extracted: 10/01/2018 23:59  
Sample wt/vol: 245 (mL) Date Analyzed: 10/02/2018 18:59  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 556593 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 0.016  | U | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 40   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31567.D  
 Lims ID: 460-165769-F-7-A  
 Client ID: FSMW-1A 09272018  
 Sample Type: Client  
 Inject. Date: 02-Oct-2018 18:59:30 ALS Bottle#: 39 Worklist Smp#: 39  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079574-039  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK014

First Level Reviewer: khlungprakhons

Date: 03-Oct-2018 16:27:58

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/ml | %Rec | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|--------------------|------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.952        | 2.952            | 0.000            | 0  | 1189786  | 1.59               | 39.8 |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 97 | 378086   | 0.2000             |      |       |

**Reagents:**

SM\_iso\_d4istd\_00003                      Amount Added: 20.00                      Units: uL                      Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31567.D

Injection Date: 02-Oct-2018 18:59:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165769-F-7-A

Lab Sample ID: 460-165769-7

Worklist Smp#: 39

Client ID: FSMW-1A 09272018

Injection Vol: 5.0 ul

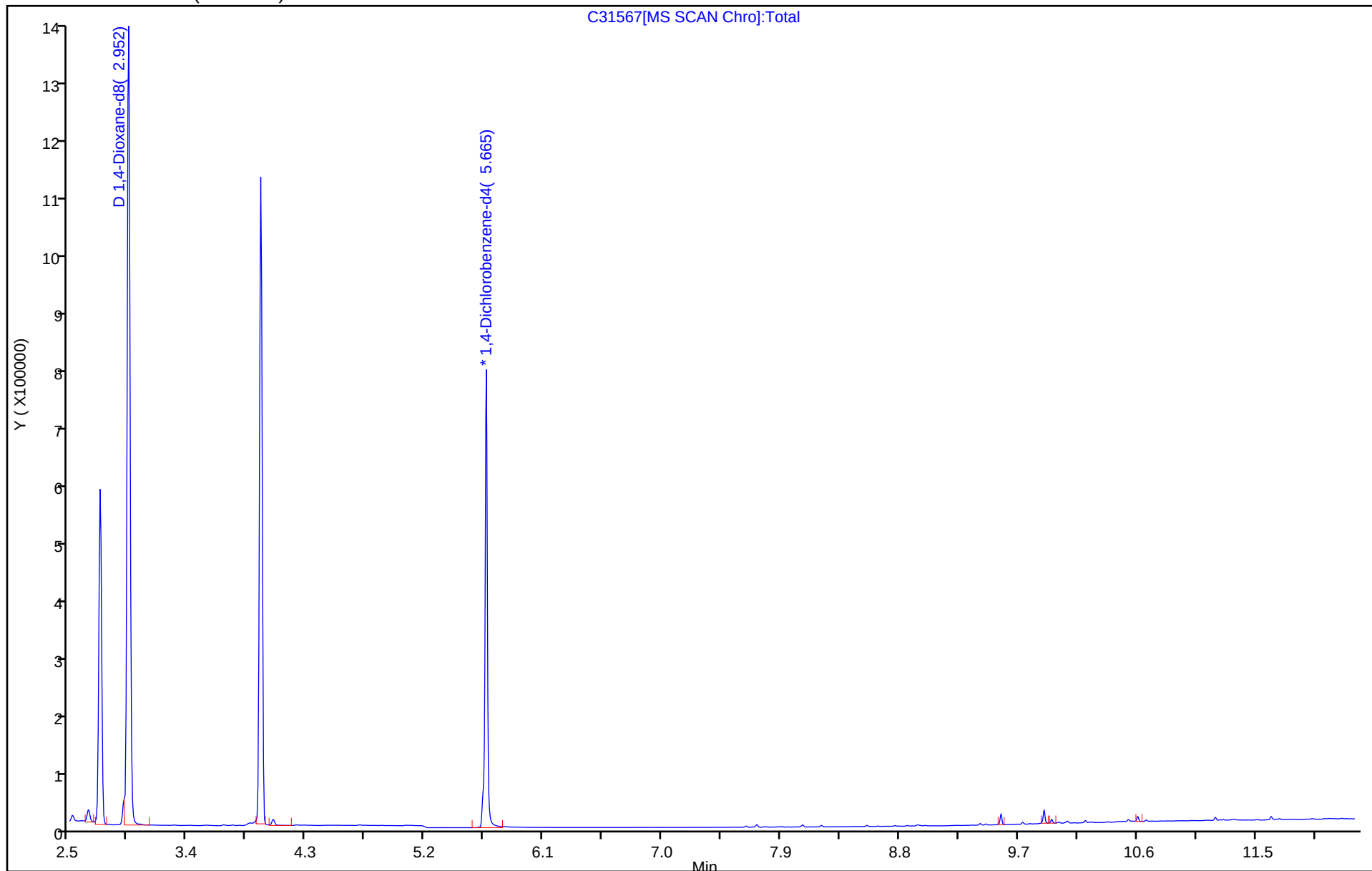
Dil. Factor: 1.0000

ALS Bottle#: 39

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31567.D

Injection Date: 02-Oct-2018 18:59:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-F-7-A

Lab Sample ID: 460-165769-7

Client ID: FSMW-1A 09272018

Operator ID:

ALS Bottle#: 39 Worklist Smp#: 39

Injection Vol: 5.0 ul

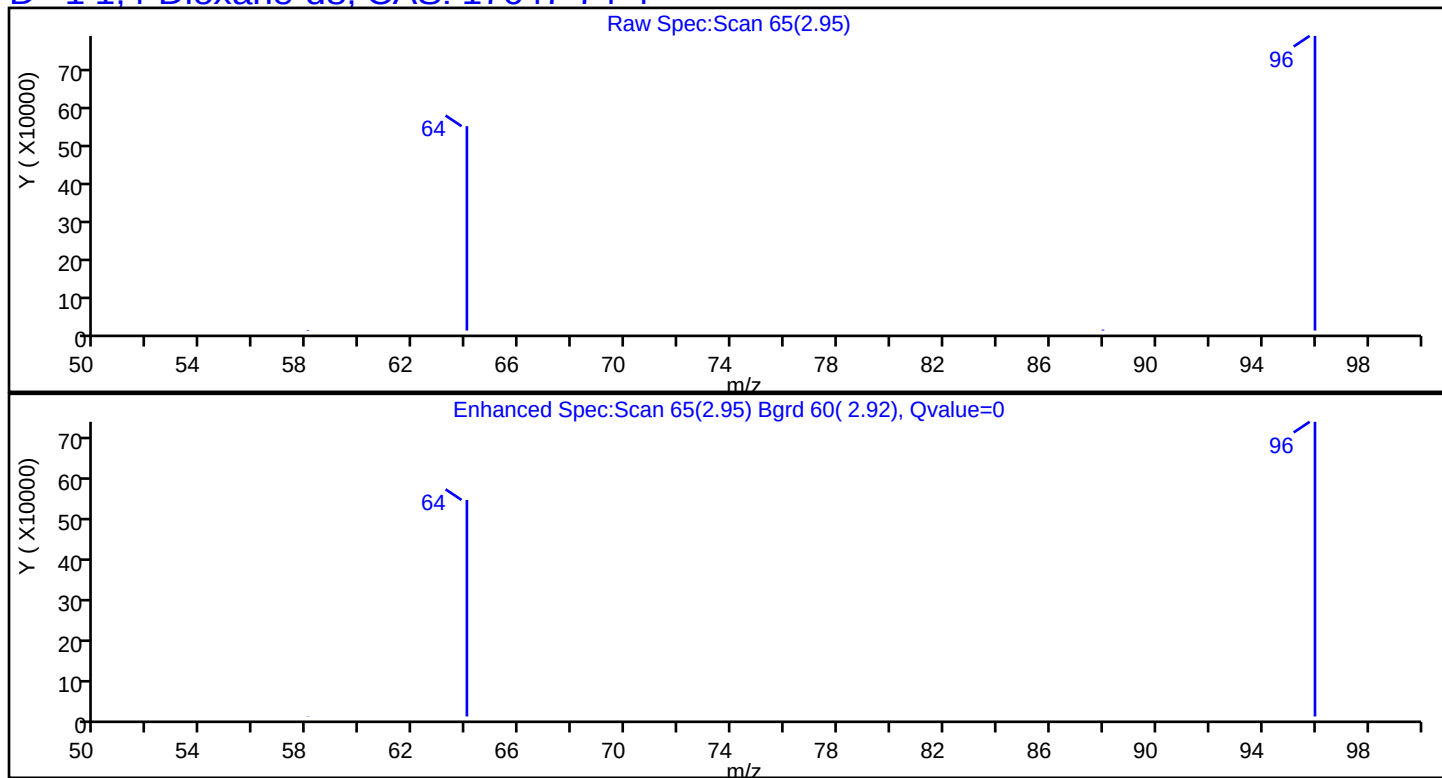
Dil. Factor: 1.0000

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31567.D

Injection Date: 02-Oct-2018 18:59:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-F-7-A

Lab Sample ID: 460-165769-7

Client ID: FSMW-1A 09272018

Operator ID:

ALS Bottle#:

39

Worklist Smp#: 39

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270\_Isotope

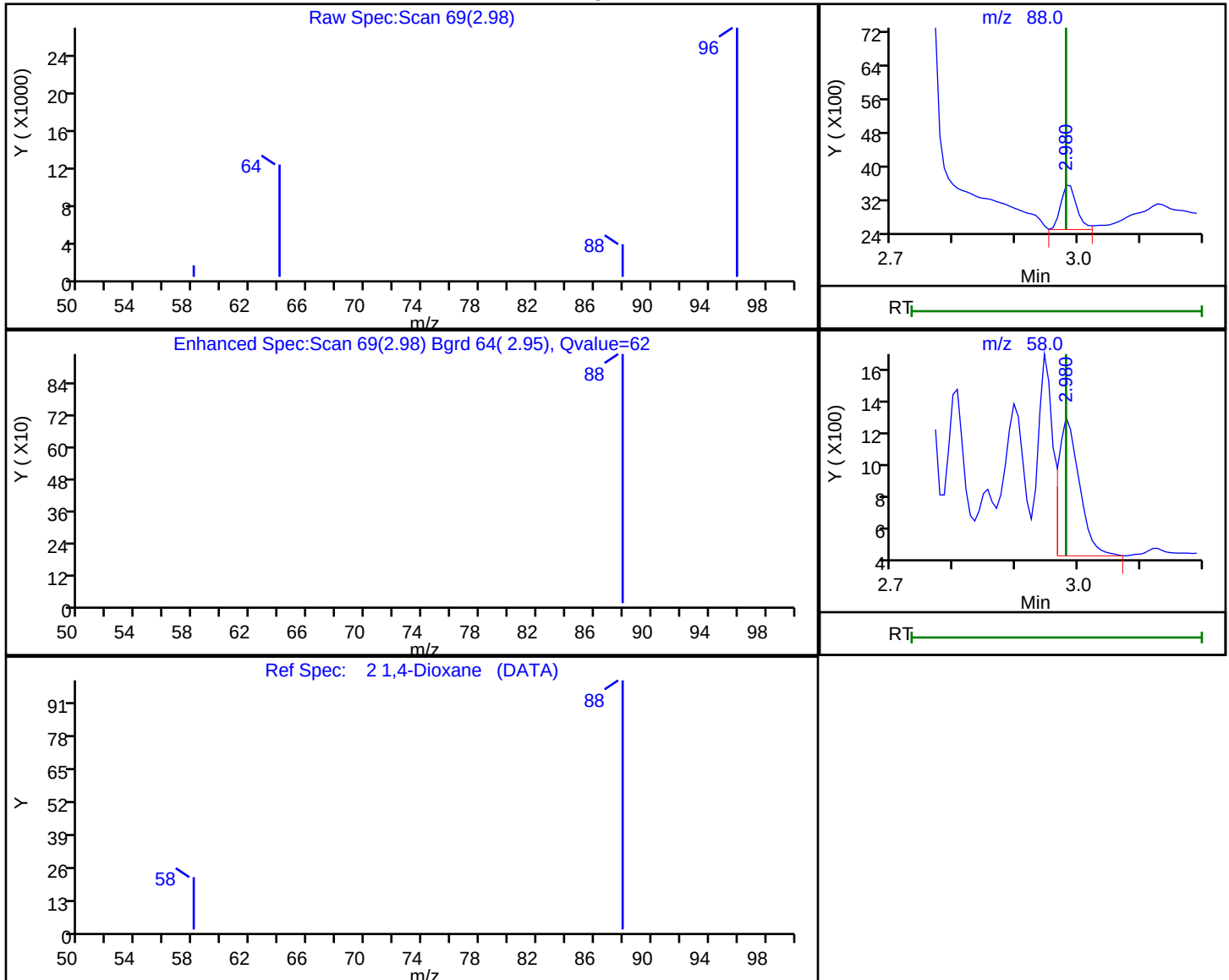
Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

Detector MS SCAN

## 2 1,4-Dioxane, CAS: 123-91-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.98 | 88.00 | 1876     | 0.004871 |
| 2.98 | 58.00 | 1935     |          |

Reviewer: khlungprakhons, 03-Oct-2018 16:27:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: EB2 09272018 Lab Sample ID: 460-165769-8  
Matrix: Water Lab File ID: C31618.D  
Analysis Method: 8270D SIM ID Date Collected: 09/27/2018 11:30  
Extract. Method: 3510C Date Extracted: 10/04/2018 22:46  
Sample wt/vol: 250 (mL) Date Analyzed: 10/05/2018 09:36  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 557609 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 0.016  | U | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 47   |   | 10-150 |



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31618.D  
 Lims ID: 460-165769-F-8-A  
 Client ID: EB2 09272018  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 09:36:30 ALS Bottle#: 14 Worklist Smp#: 14  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079770-014  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 08-Oct-2018 08:15:45 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK020

First Level Reviewer: zhaoc

Date: 05-Oct-2018 09:53:30

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | OnCol Amt<br>ug/ml | %Rec | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|--------------------|------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|--------------------|------|-------|

|     |                        |     |       |       |        |    |         |        |      |
|-----|------------------------|-----|-------|-------|--------|----|---------|--------|------|
| D 1 | 1,4-Dioxane-d8         | 96  | 2.938 | 2.929 | 0.007  | 0  | 1283083 | 1.90   | 47.5 |
| * 4 | 1,4-Dichlorobenzene-d4 | 152 | 5.661 | 5.665 | -0.004 | 97 | 341835  | 0.2000 |      |

**Reagents:**

SM\_iso\_d4istd\_00003                      Amount Added: 20.00                      Units: uL                      Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31618.D

Injection Date: 05-Oct-2018 09:36:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165769-F-8-A

Lab Sample ID: 460-165769-8

Worklist Smp#: 14

Client ID: EB2 09272018

Injection Vol: 5.0 ul

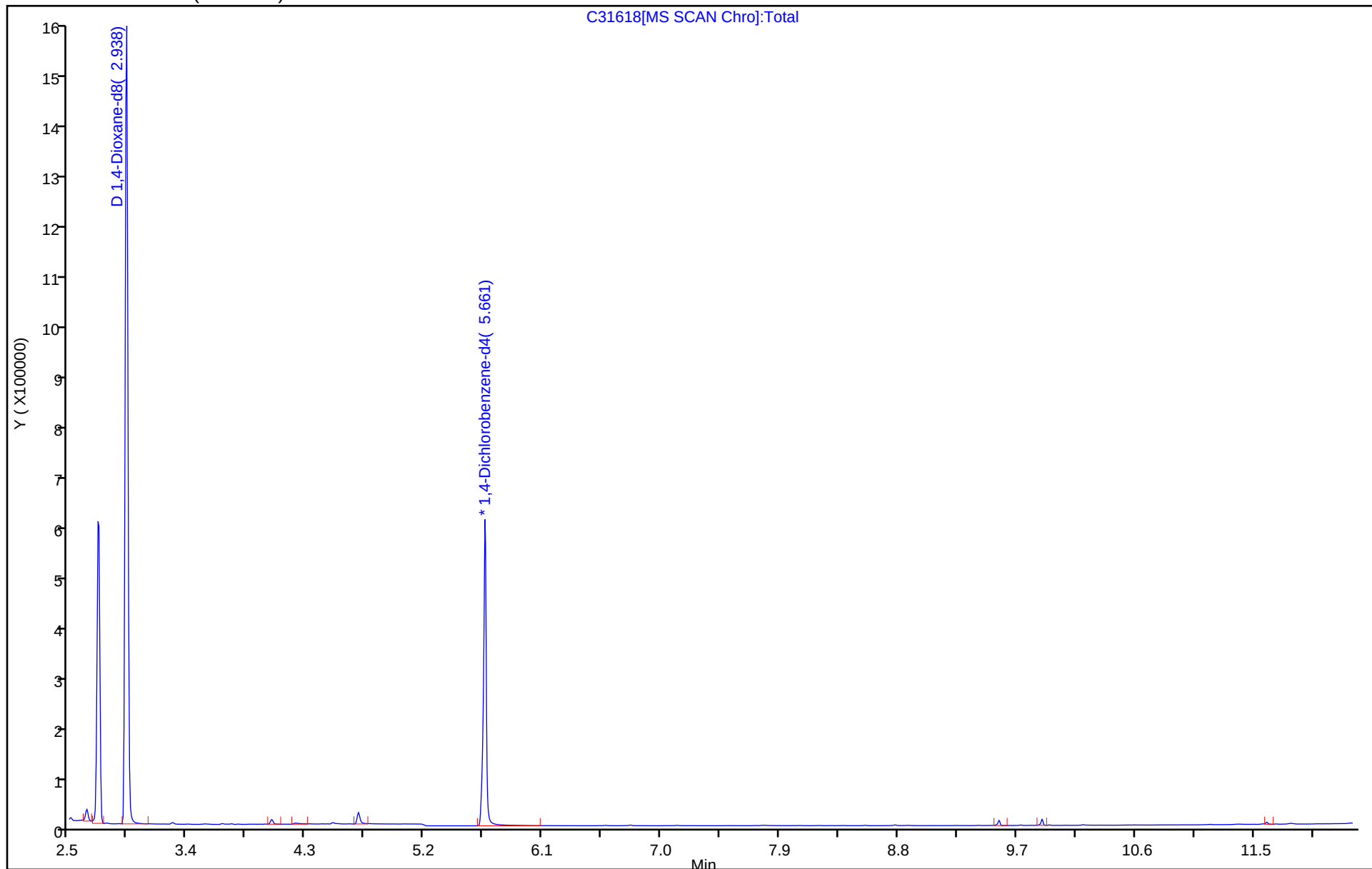
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181005-79770.b\\C31618.D

Injection Date: 05-Oct-2018 09:36:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-F-8-A

Lab Sample ID: 460-165769-8

Client ID: EB2 09272018

Operator ID:

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 5.0 ul

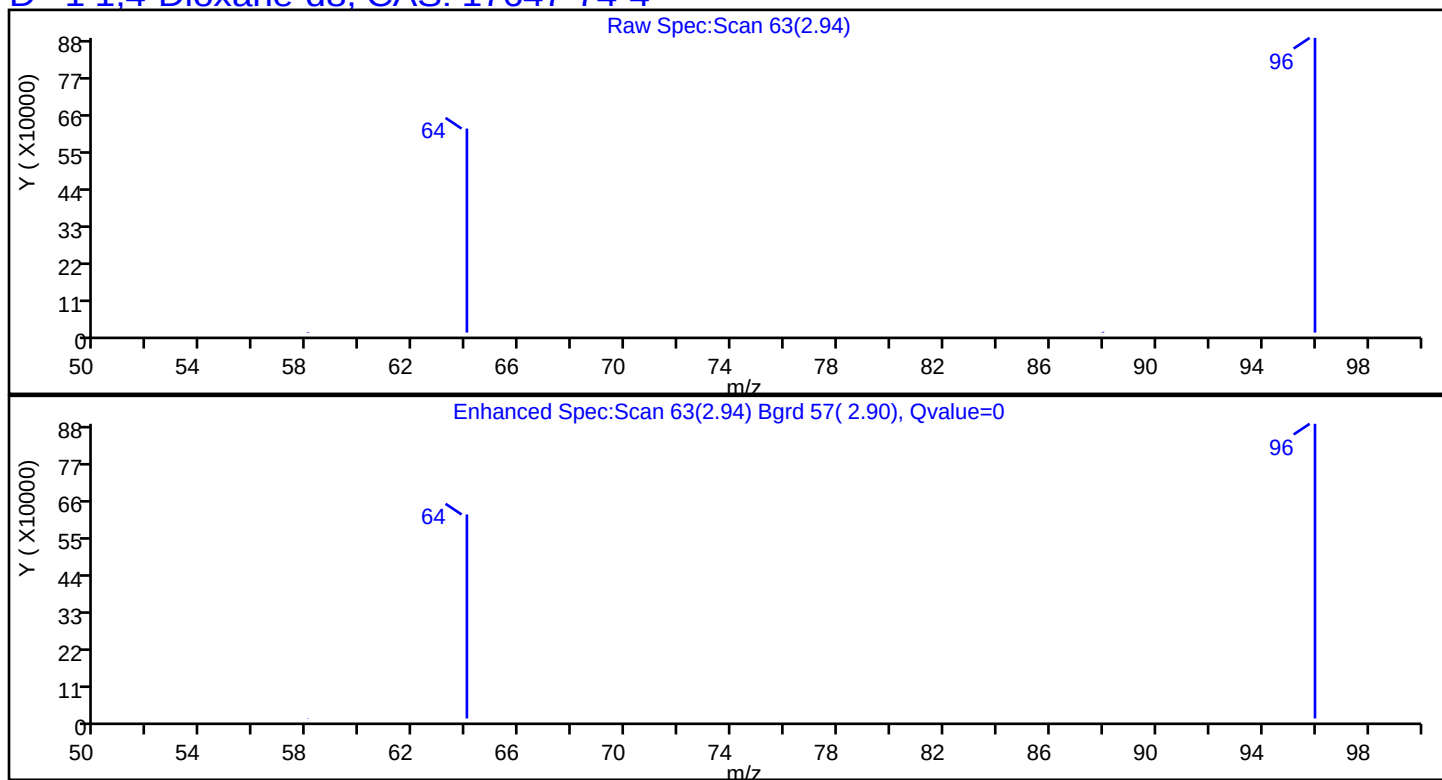
Dil. Factor: 1.0000

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181005-79770.b\\C31618.D

Injection Date: 05-Oct-2018 09:36:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-F-8-A

Lab Sample ID: 460-165769-8

Client ID: EB2 09272018

Operator ID:

ALS Bottle#:

14

Worklist Smp#: 14

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270\_Isotope

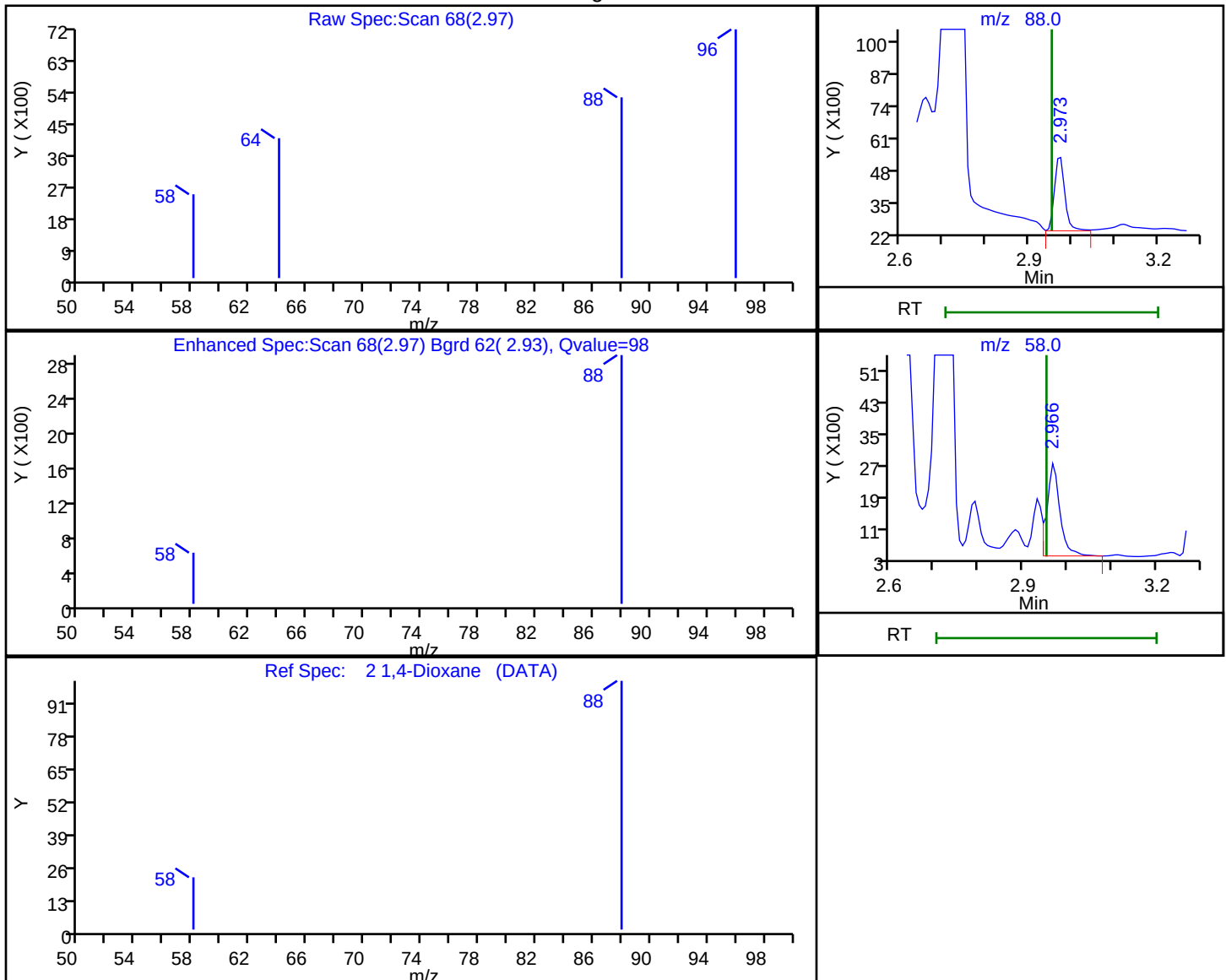
Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

Detector: MS SCAN

## 2 1,4-Dioxane, CAS: 123-91-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.97 | 88.00 | 5091     | 0.012258 |
| 2.97 | 58.00 | 4672     |          |

Reviewer: khlungprakhons, 08-Oct-2018 08:15:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: FB2 09272018 Lab Sample ID: 460-165769-9  
Matrix: Water Lab File ID: C31568.D  
Analysis Method: 8270D SIM ID Date Collected: 09/27/2018 13:00  
Extract. Method: 3510C Date Extracted: 10/01/2018 23:59  
Sample wt/vol: 245 (mL) Date Analyzed: 10/02/2018 19:17  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 556593 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 0.016  | U | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 39   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31568.D  
 Lims ID: 460-165769-F-9-A  
 Client ID: FB2 09272018  
 Sample Type: Client  
 Inject. Date: 02-Oct-2018 19:17:30 ALS Bottle#: 40 Worklist Smp#: 40  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079574-040  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK014

First Level Reviewer: khlungprakhons

Date: 03-Oct-2018 16:28:19

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | OnCol Amt<br>ug/ml | %Rec | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|--------------------|------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.952        | 2.952            | 0.000            | 0  | 1088664  | 1.56               | 39.1 |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 99 | 351953   | 0.2000             |      |       |

**Reagents:**

SM\_iso\_d4istd\_00003                      Amount Added: 20.00                      Units: uL                      Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31568.D

Injection Date: 02-Oct-2018 19:17:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165769-F-9-A

Lab Sample ID: 460-165769-9

Worklist Smp#: 40

Client ID: FB2 09272018

Injection Vol: 5.0 ul

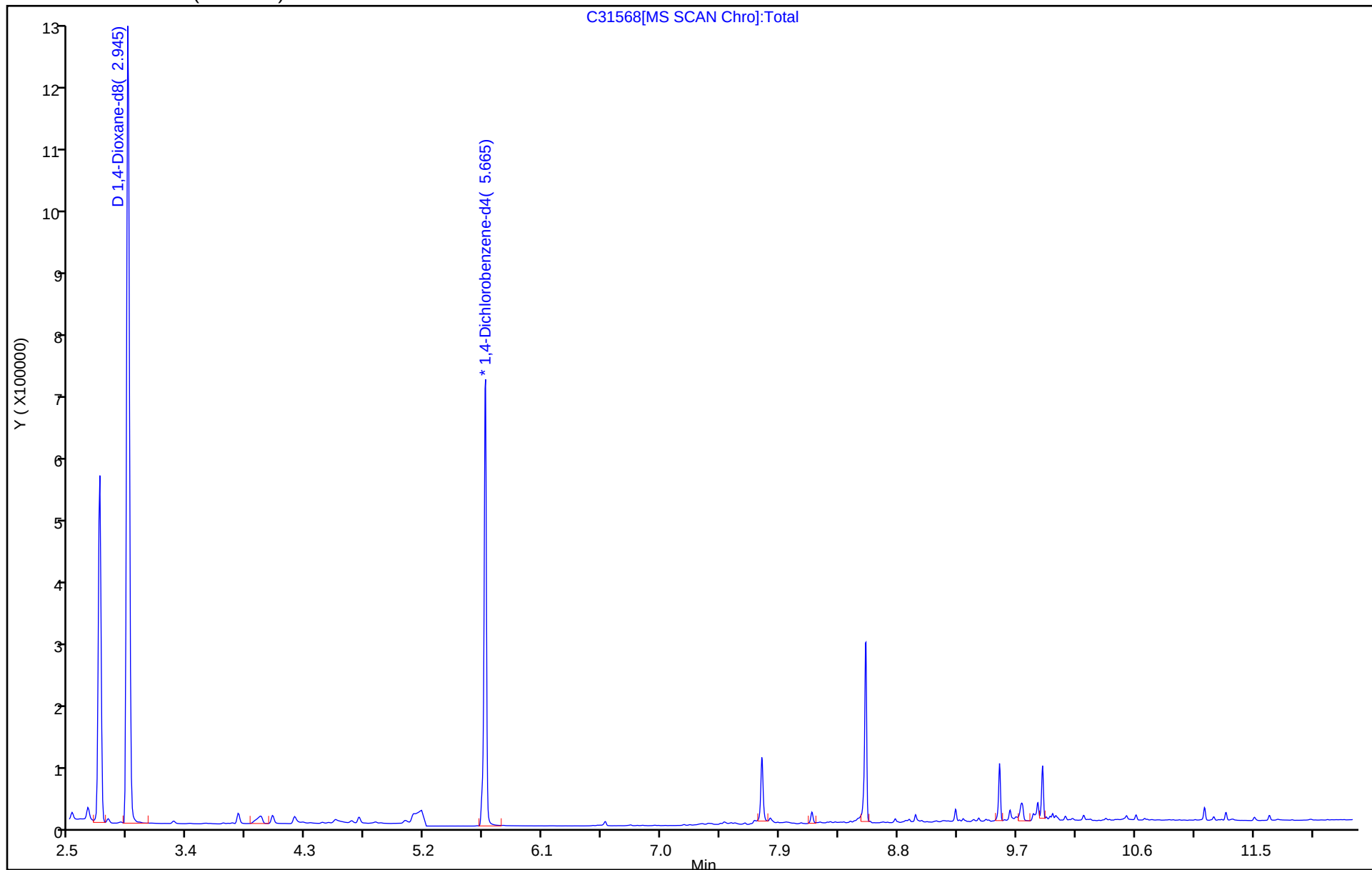
Dil. Factor: 1.0000

ALS Bottle#: 40

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31568.D

Injection Date: 02-Oct-2018 19:17:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-F-9-A

Lab Sample ID: 460-165769-9

Client ID: FB2 09272018

Operator ID:

ALS Bottle#:

40

Worklist Smp#:

40

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

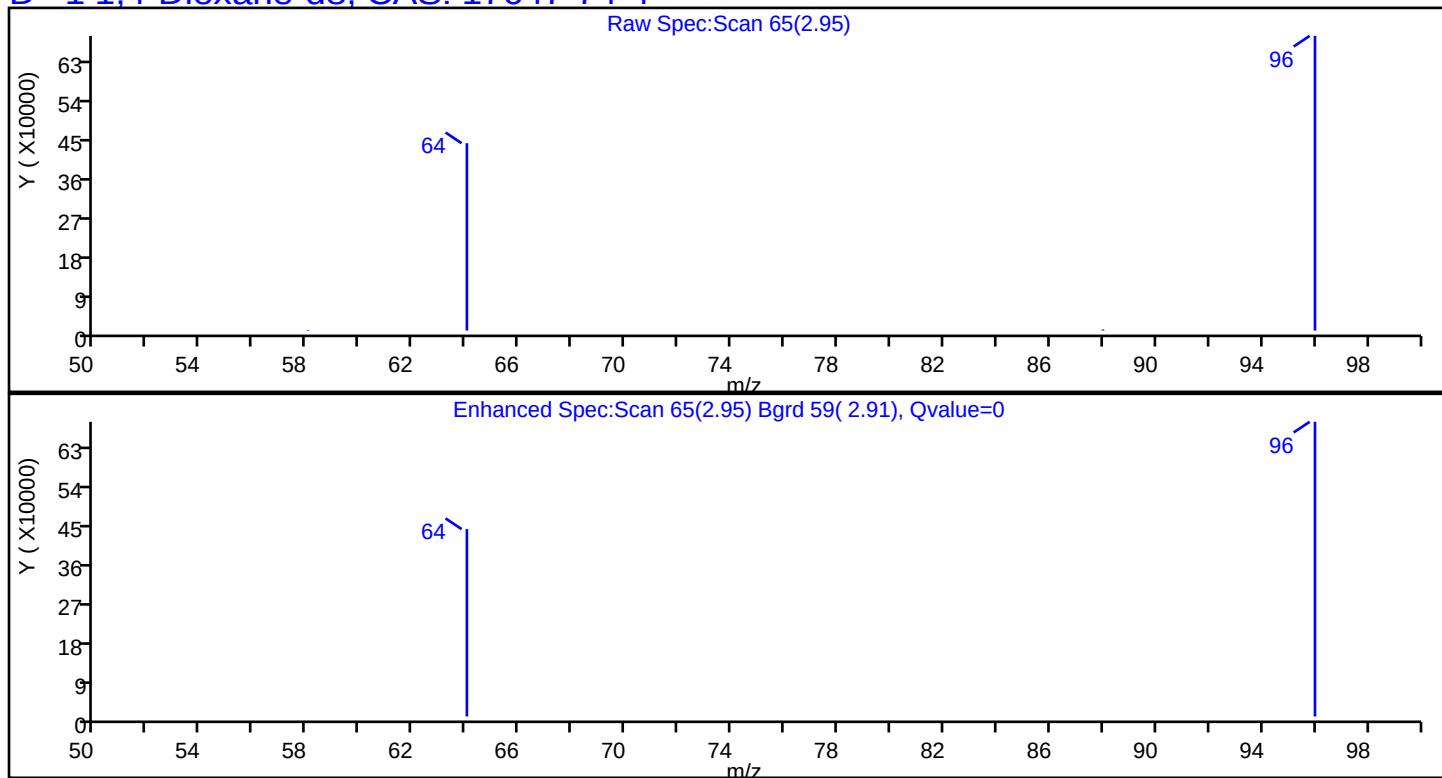
Limit Group:

MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31568.D

Injection Date: 02-Oct-2018 19:17:30

Instrument ID: CBNAMS13

Lims ID: 460-165769-F-9-A

Lab Sample ID: 460-165769-9

Client ID: FB2 09272018

Operator ID:

ALS Bottle#:

40

Worklist Smp#: 40

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270\_Isotope

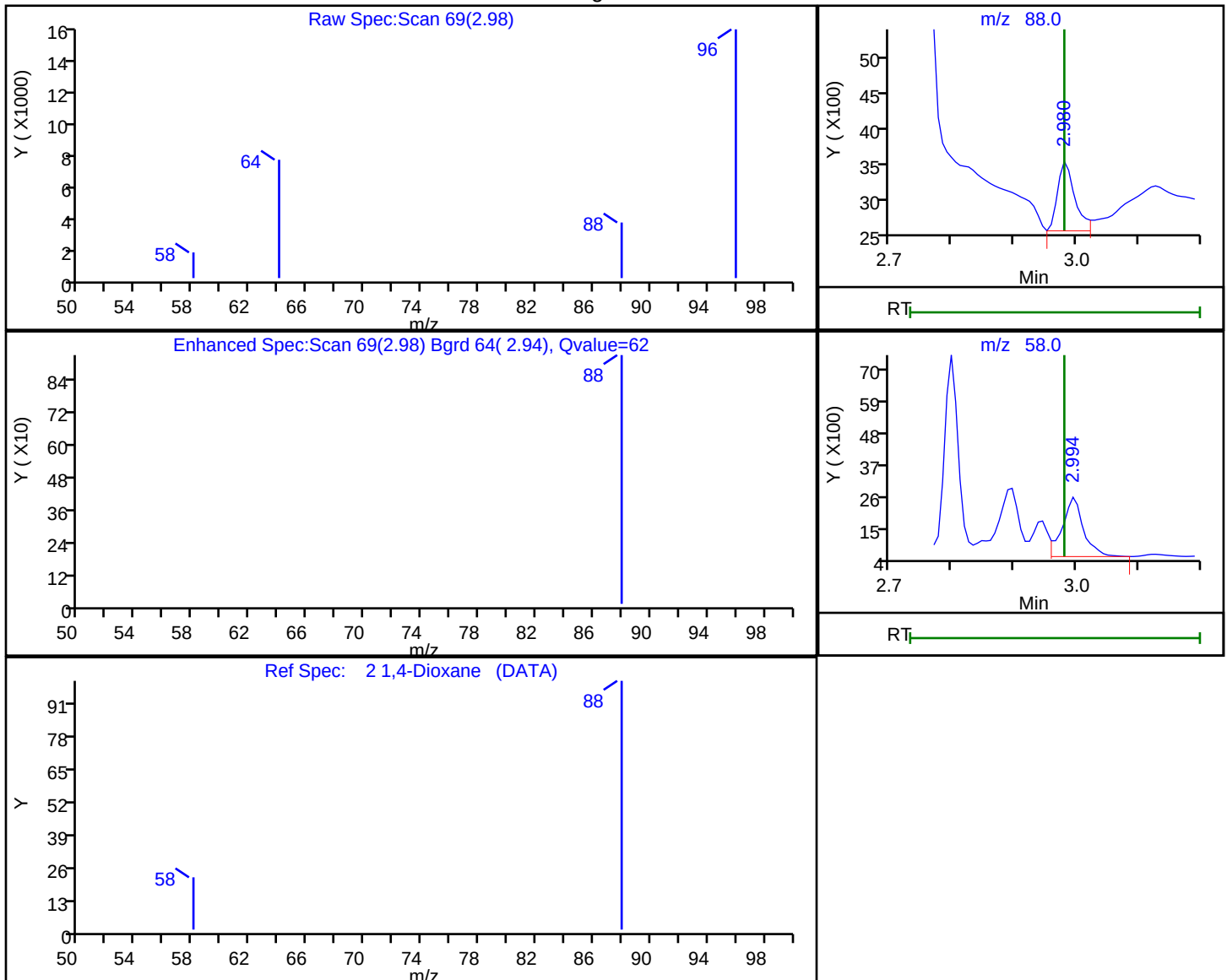
Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

Detector MS SCAN

## 2 1,4-Dioxane, CAS: 123-91-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.98 | 88.00 | 1933     | 0.005485 |
| 2.99 | 58.00 | 4900     |          |

Reviewer: khlungprakhons, 03-Oct-2018 16:28:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 518314

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS13 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 12:48 Calibration End Date: 05/11/2018 17:20 Calibration ID: 68479

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | STD1 460-518314/9 | C28993.D     |
| Level 2 | STD2 460-518314/8 | C28992.D     |
| Level 3 | STD3 460-518314/7 | C28991.D     |
| Level 4 | ICIS 460-518314/2 | C28986.D     |
| Level 5 | STD8 460-518314/3 | C28987.D     |
| Level 6 | STD7 460-518314/4 | C28988.D     |
| Level 7 | STD6 460-518314/5 | C28989.D     |
| Level 8 | STD4 460-518314/6 | C28990.D     |

| ANALYTE        | RRF              |                  |                  |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|----------------|------------------|------------------|------------------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| 1,4-Dioxane    | 1.4707<br>1.1835 | 1.4974<br>1.2114 | 1.3755<br>1.3268 | 1.2864 | 1.0062 | AveID         |             | 1.2947 |    |   |         | 12.5 |   | 50.0        |               |   |                   |
| 1,4-Dioxane-d8 | 0.4001<br>0.3970 | 0.3939<br>0.3945 | 0.3865<br>0.3964 | 0.3977 | 0.3963 | Ave           |             | 0.3953 |    |   |         | 1.0  |   | 50.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-165769-1 Analy Batch No.: 518314

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS13 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2018 12:48 Calibration End Date: 05/11/2018 17:20 Calibration ID: 68479

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:    | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | STD1 460-518314/9 | C28993.D     |
| Level 2 | STD2 460-518314/8 | C28992.D     |
| Level 3 | STD3 460-518314/7 | C28991.D     |
| Level 4 | ICIS 460-518314/2 | C28986.D     |
| Level 5 | STD8 460-518314/3 | C28987.D     |
| Level 6 | STD7 460-518314/4 | C28988.D     |
| Level 7 | STD6 460-518314/5 | C28989.D     |
| Level 8 | STD4 460-518314/6 | C28990.D     |

| ANALYTE        | IS<br>REF | CURVE<br>TYPE | RESPONSE           |                    |                    |         |         | CONCENTRATION (UG/ML) |                |                |       |       |
|----------------|-----------|---------------|--------------------|--------------------|--------------------|---------|---------|-----------------------|----------------|----------------|-------|-------|
|                |           |               | LVL 1<br>LVL 6     | LVL 2<br>LVL 7     | LVL 3<br>LVL 8     | LVL 4   | LVL 5   | LVL 1<br>LVL 6        | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4 | LVL 5 |
| 1,4-Dioxane    |           | AveID         | 19118<br>1516533   | 40300<br>779650    | 88487<br>176553    | 413818  | 6531196 | 0.0200<br>2.00        | 0.0400<br>1.00 | 0.100<br>0.200 | 0.500 | 10.0  |
| 1,4-Dioxane-d8 | DCBd<br>4 | Ave           | 2599863<br>2562721 | 2691312<br>2574395 | 2573218<br>2661308 | 2573458 | 2596349 | 4.00<br>4.00          | 4.00<br>4.00   | 4.00<br>4.00   | 4.00  | 4.00  |

Curve Type Legend:

Ave = Average ISTD  
AveID = Average isotope dilution

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28986.D  
 Lims ID: icis  
 Client ID:  
 Sample Type: ICIS Calib Level: 5  
 Inject. Date: 11-May-2018 12:48:30 ALS Bottle#: 9 Worklist Smp#: 2  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0071845-002  
 Operator ID: Instrument ID: CBNAMS13  
 Sublist: chrom-8270\_Isotope\*sub1  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 14-May-2018 12:12:25 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 11-May-2018 13:27:37

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.400        | 3.400            | 0.000            | 0  | 2573458  | 4.00             | 4.02               | a     |
| 2 1,4-Dioxane              | 88  | 3.428        | 3.428            | 0.000            | 79 | 413818   | 0.5000           | 0.4968             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.952        | 5.952            | 0.000            | 98 | 323558   | 0.2000           | 0.2000             |       |

**QC Flag Legend**

Review Flags

a - User Assigned ID

**Reagents:**

SM\_ISOTOPL5\_00001

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28986.D

Injection Date: 11-May-2018 12:48:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: icis

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

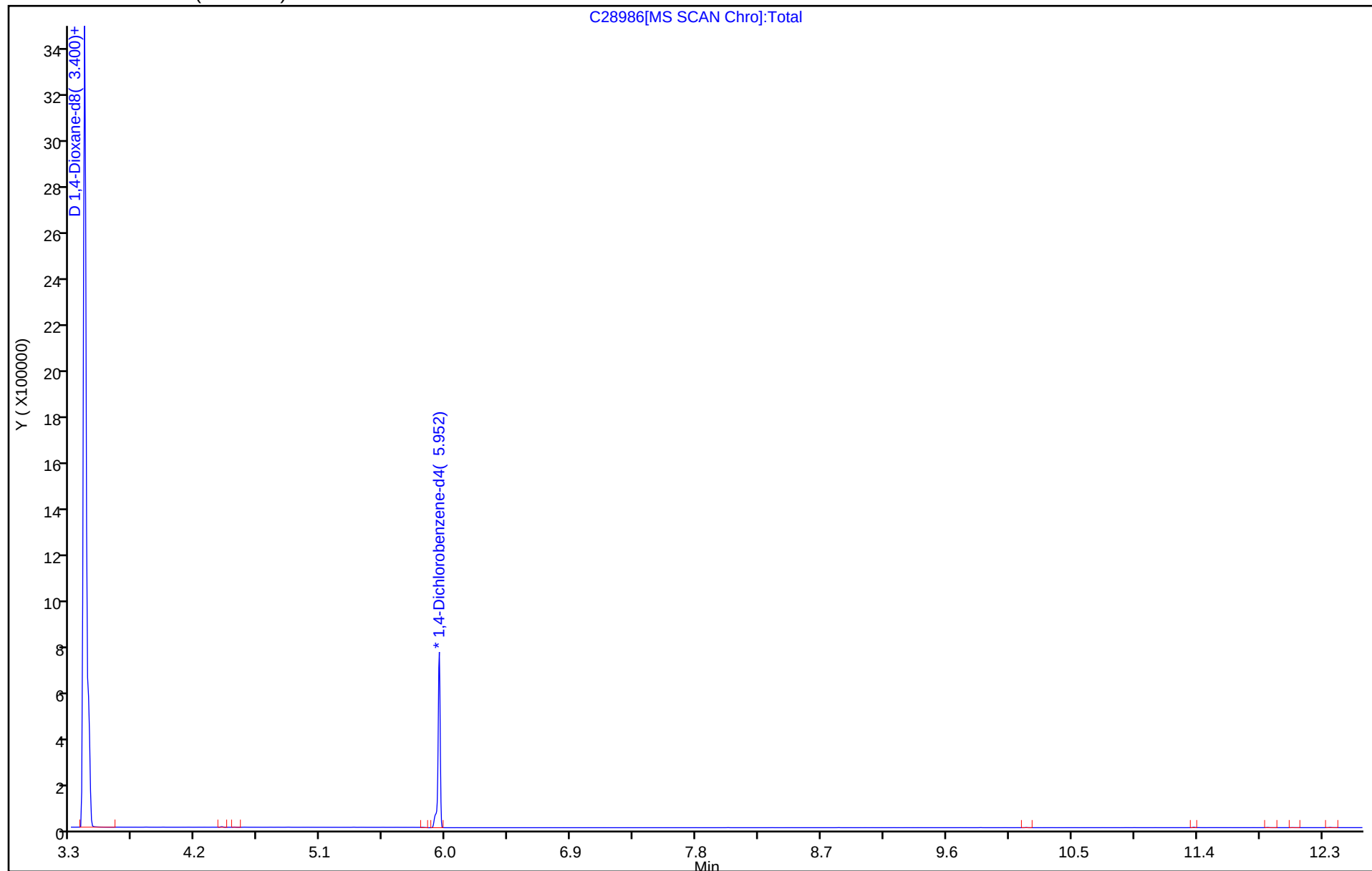
ALS Bottle#: 9

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

C28986[MS SCAN Chro]:Total



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28986.D

Injection Date: 11-May-2018 12:48:30

Instrument ID: CBNAMS13

Lims ID: icis

Client ID:

Operator ID:

ALS Bottle#:

9

Worklist Smp#: 2

Injection Vol: 5.0 ul

Dil. Factor: 1.0000

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

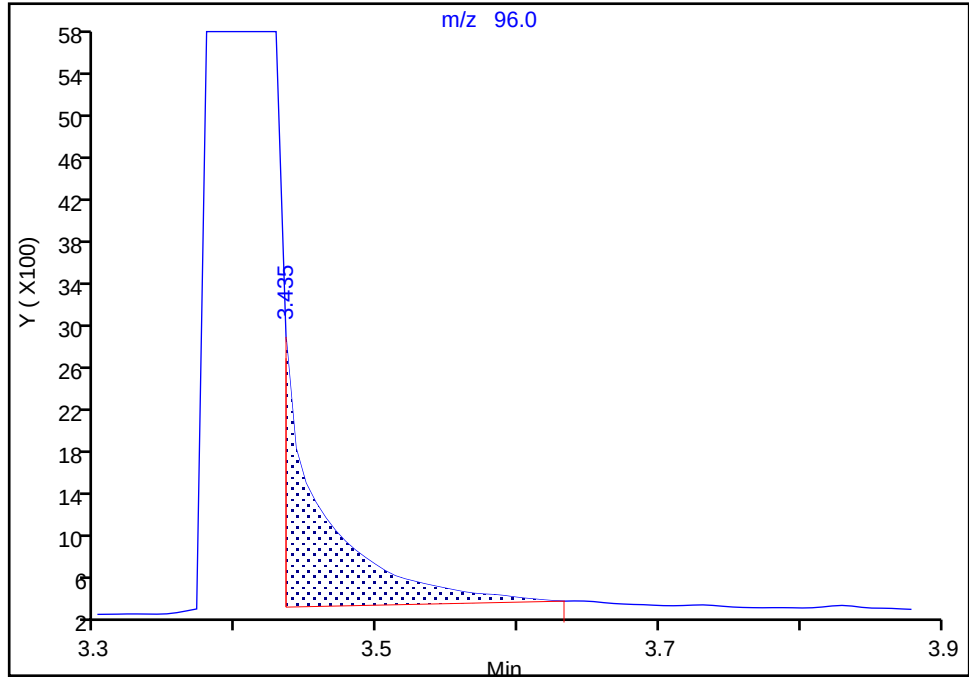
Detector: MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**

Signal: 1

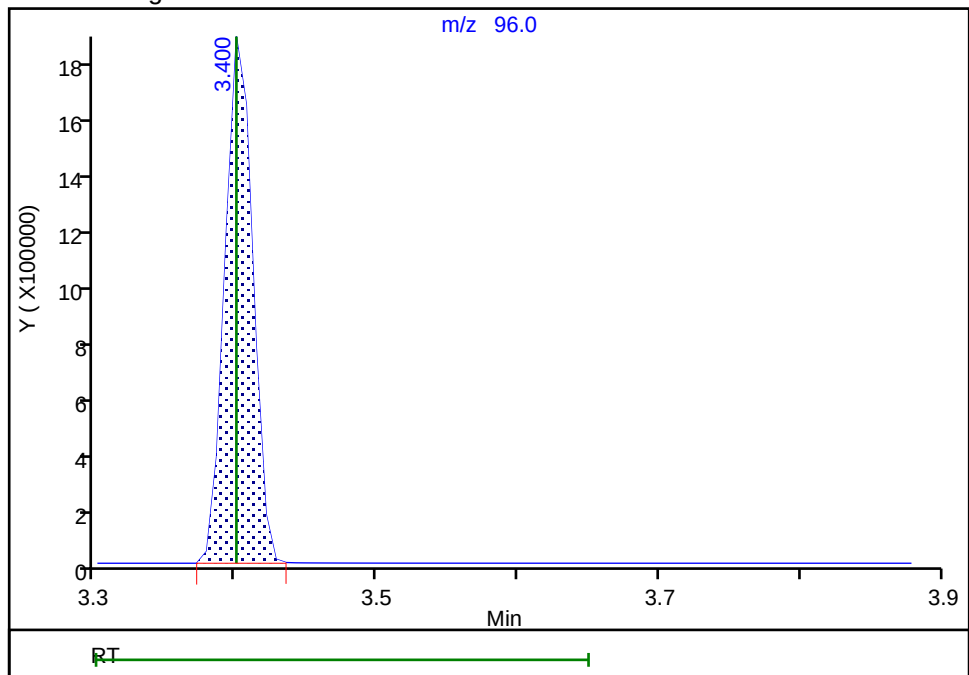
RT: 3.43  
Area: 5015  
Amount: 4.029831  
Amount Units: ug/ml

## Processing Integration Results



RT: 3.40  
Area: 2573458  
Amount: 4.024073  
Amount Units: ug/ml

## Manual Integration Results



Reviewer: johnstonm1, 11-May-2018 13:27:27

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28987.D  
 Lims ID: STD8  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 11-May-2018 13:08:30 ALS Bottle#: 10 Worklist Smp#: 3  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0071845-003  
 Operator ID: Instrument ID: CBNAMS13  
 Sublist: chrom-8270\_Isotope\*sub1  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 14-May-2018 12:12:25 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 11-May-2018 13:28:03

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.392        | 3.400            | -0.008           | 0  | 2596349  | 4.00             | 4.01               | a     |
| 2 1,4-Dioxane              | 88  | 3.421        | 3.428            | -0.007           | 78 | 6531196  | 10.0             | 7.77               |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.944        | 5.952            | -0.008           | 97 | 327569   | 0.2000           | 0.2000             |       |

**QC Flag Legend**

Review Flags

a - User Assigned ID

**Reagents:**

SM\_ISOTOPL8\_00001

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28987.D

Injection Date: 11-May-2018 13:08:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD8

Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul

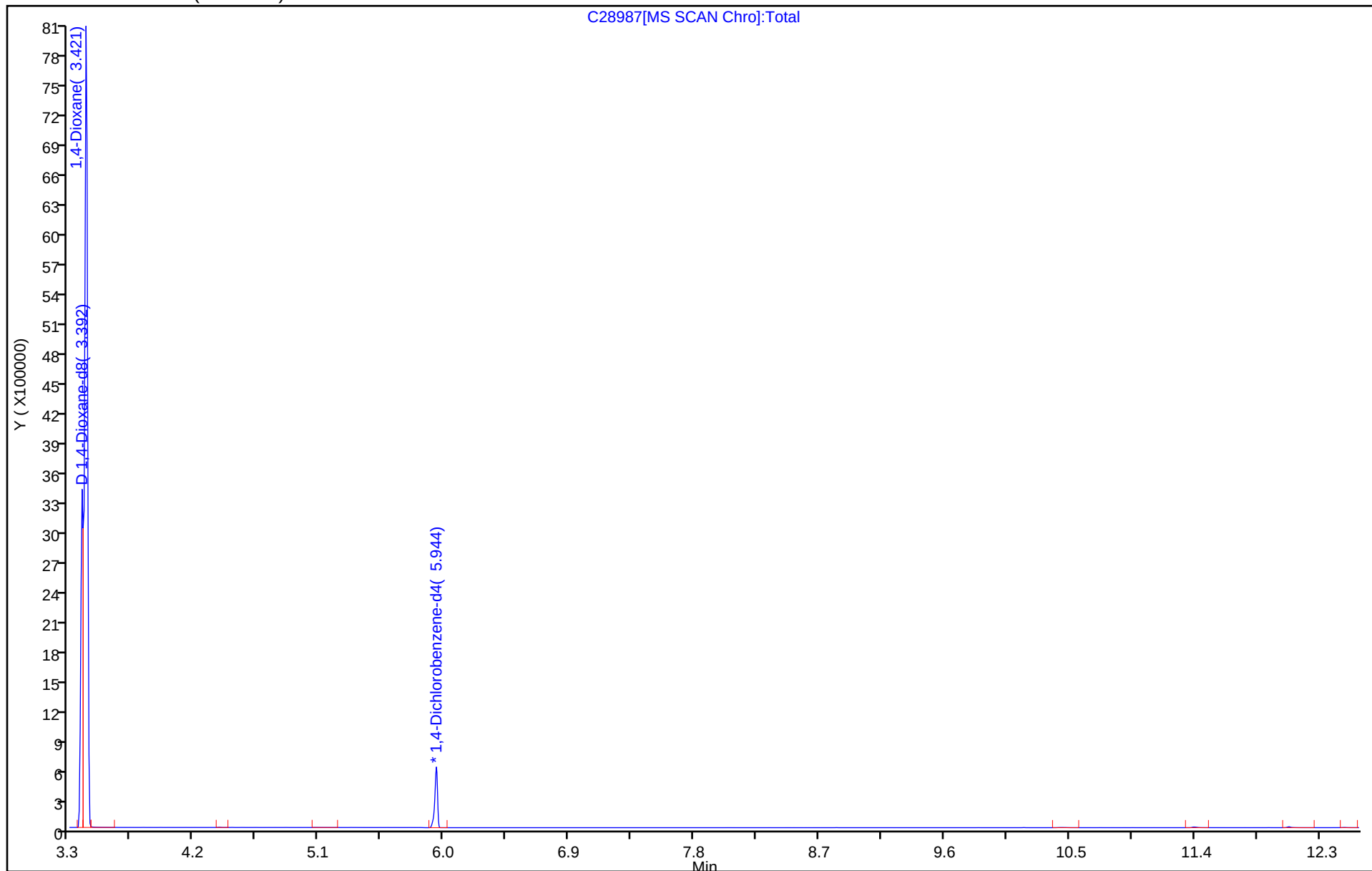
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)





## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28987.D

Injection Date: 11-May-2018 13:08:30

Instrument ID: CBNAMS13

Lims ID: STD8

Client ID:

Operator ID:

ALS Bottle#:

10

Worklist Smp#:

3

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

Limit Group:

MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

Detector

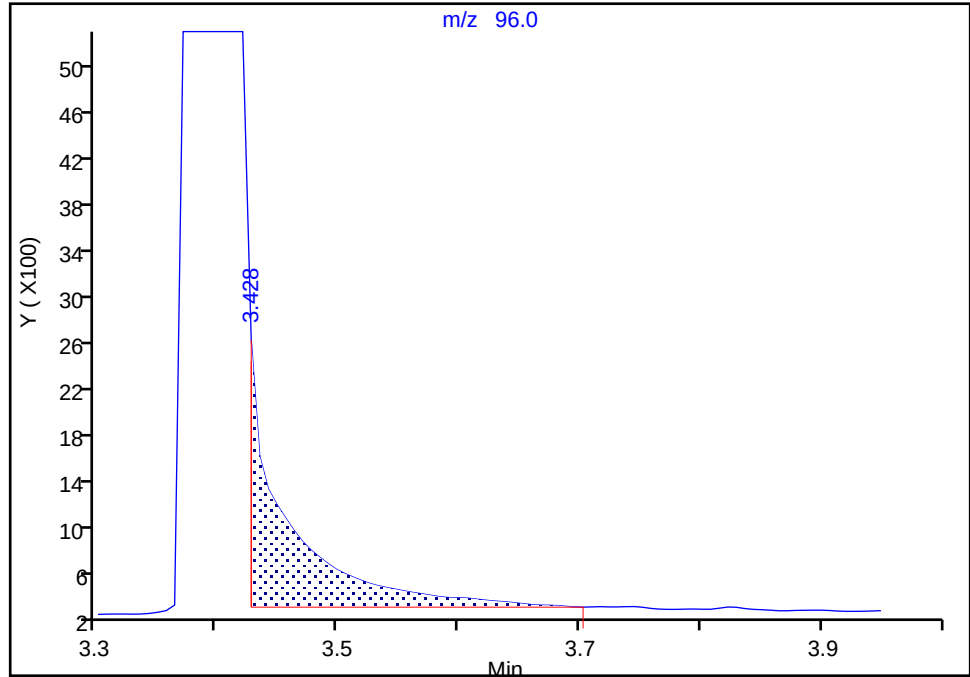
MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**

Signal: 1

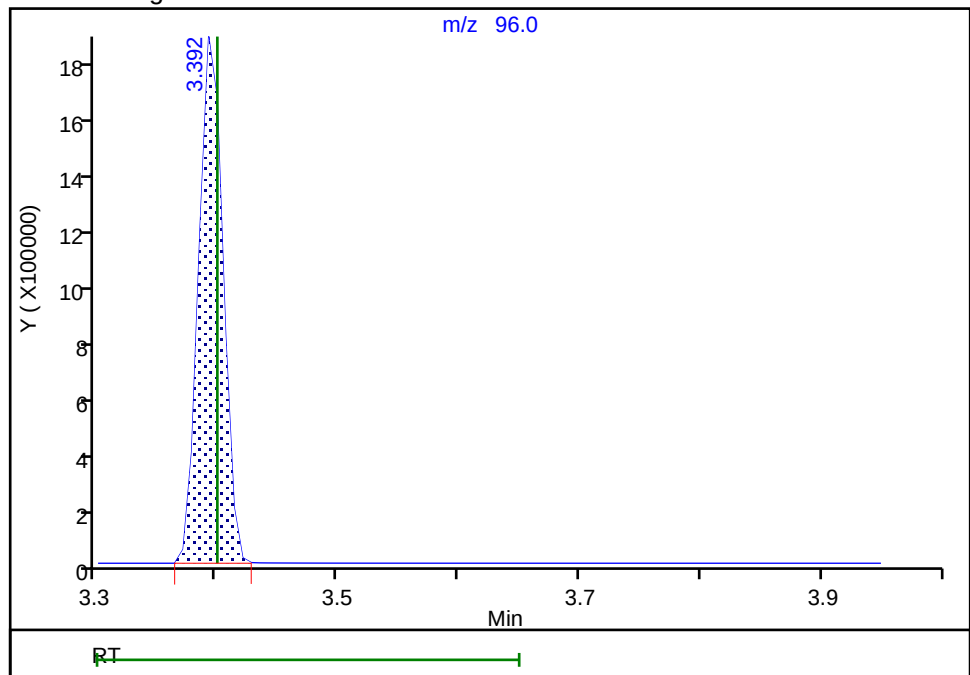
RT: 3.43  
Area: 5002  
Amount: 0.015330  
Amount Units: ug/ml

## Processing Integration Results



RT: 3.39  
Area: 2596349  
Amount: 4.010155  
Amount Units: ug/ml

## Manual Integration Results



Reviewer: johnstonm1, 11-May-2018 13:27:45

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28988.D  
 Lims ID: STD7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 11-May-2018 13:27:30 ALS Bottle#: 11 Worklist Smp#: 4  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0071845-004  
 Operator ID: Instrument ID: CBNAMS13  
 Sublist: chrom-8270\_Isotope\*sub1  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 14-May-2018 12:12:26 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:21

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.400        | 3.400            | 0.000            | 0  | 2562721  | 4.00             | 4.02               |       |
| 2 1,4-Dioxane              | 88  | 3.428        | 3.428            | 0.000            | 79 | 1516533  | 2.00             | 1.83               |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.948        | 5.952            | -0.004           | 99 | 322762   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_ISOTOPL7\_00001

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28988.D

Injection Date: 11-May-2018 13:27:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD7

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul

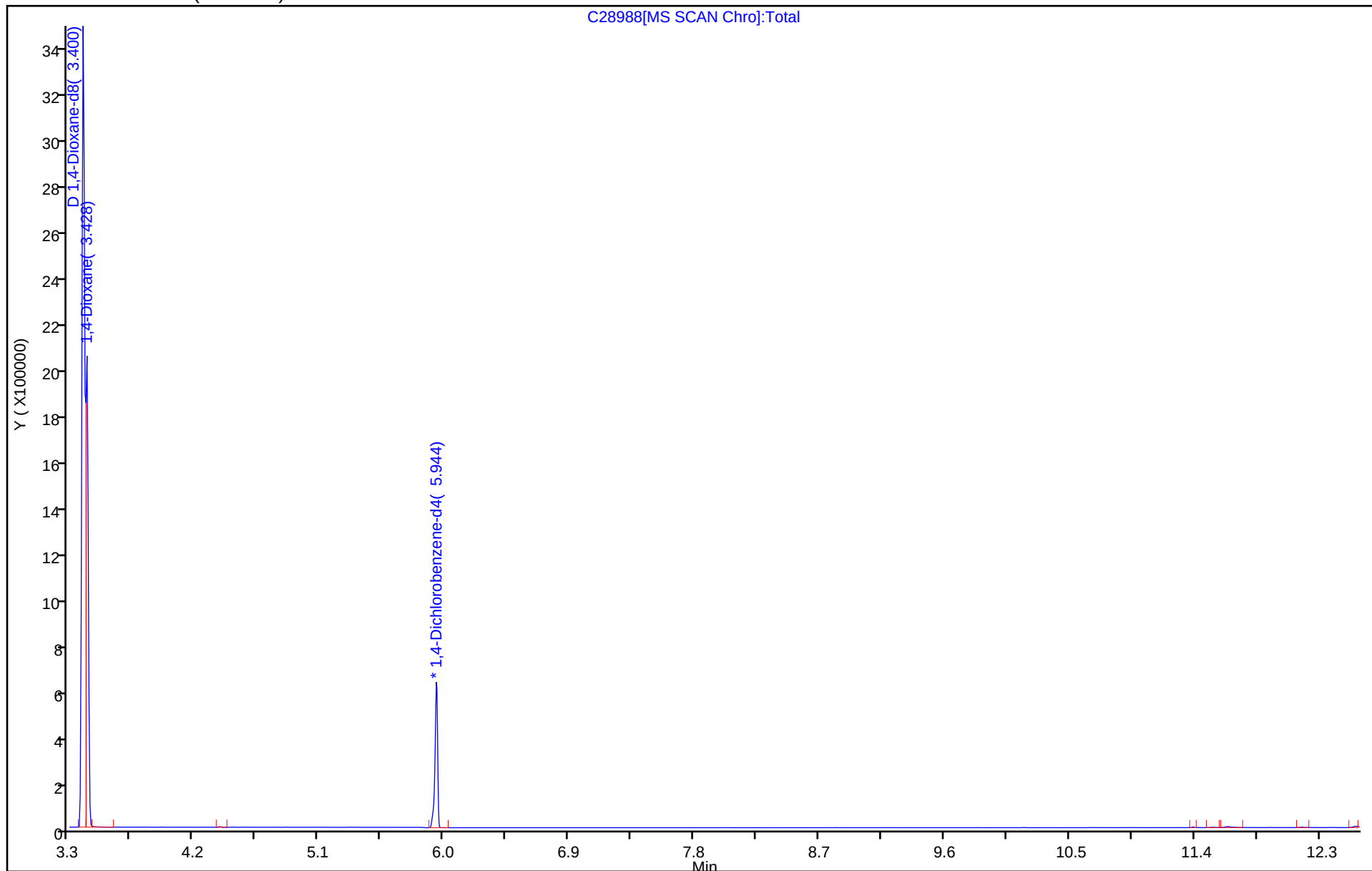
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28989.D  
 Lims ID: STD6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 11-May-2018 14:16:30 ALS Bottle#: 12 Worklist Smp#: 5  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0071845-005  
 Operator ID: Instrument ID: CBNAMS13  
 Sublist: chrom-8270\_Isotope\*sub1  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 14-May-2018 12:12:27 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:26

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.400        | 3.400            | 0.000            | 0  | 2574395  | 4.00             | 3.99               |       |
| 2 1,4-Dioxane              | 88  | 3.428        | 3.428            | 0.000            | 82 | 779650   | 1.00             | 0.9356             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.948        | 5.952            | -0.004           | 97 | 326300   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_ISOTOPL6\_00001

Amount Added: 1.00

Units: mL

Report Date: 14-May-2018 12:12:27

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28989.D

Injection Date: 11-May-2018 14:16:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD6

Worklist Smp#: 5

Client ID:

Injection Vol: 5.0 ul

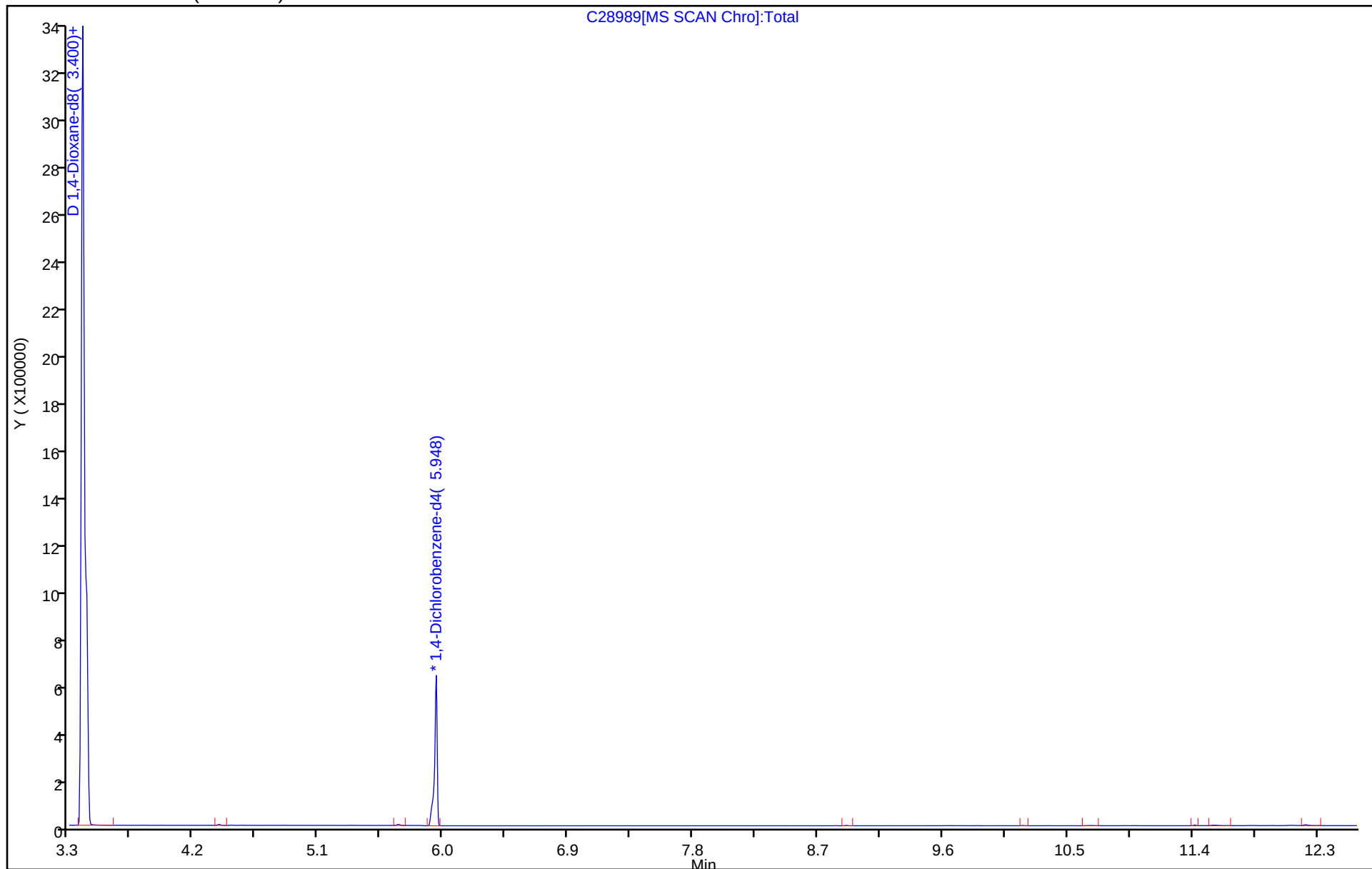
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28990.D  
 Lims ID: STD4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 11-May-2018 14:35:30 ALS Bottle#: 13 Worklist Smp#: 6  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0071845-006  
 Operator ID: Instrument ID: CBNAMS13  
 Sublist: chrom-8270\_Isotope\*sub1  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 14-May-2018 12:12:28 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:33

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.399        | 3.400            | -0.001           | 0  | 2661308  | 4.00             | 4.01               |       |
| 2 1,4-Dioxane              | 88  | 3.428        | 3.428            | 0.000            | 79 | 176553   | 0.2000           | 0.2050             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.944        | 5.952            | -0.008           | 96 | 335668   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_ISOTOPL4\_00001

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28990.D

Injection Date: 11-May-2018 14:35:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD4

Worklist Smp#: 6

Client ID:

Injection Vol: 5.0 ul

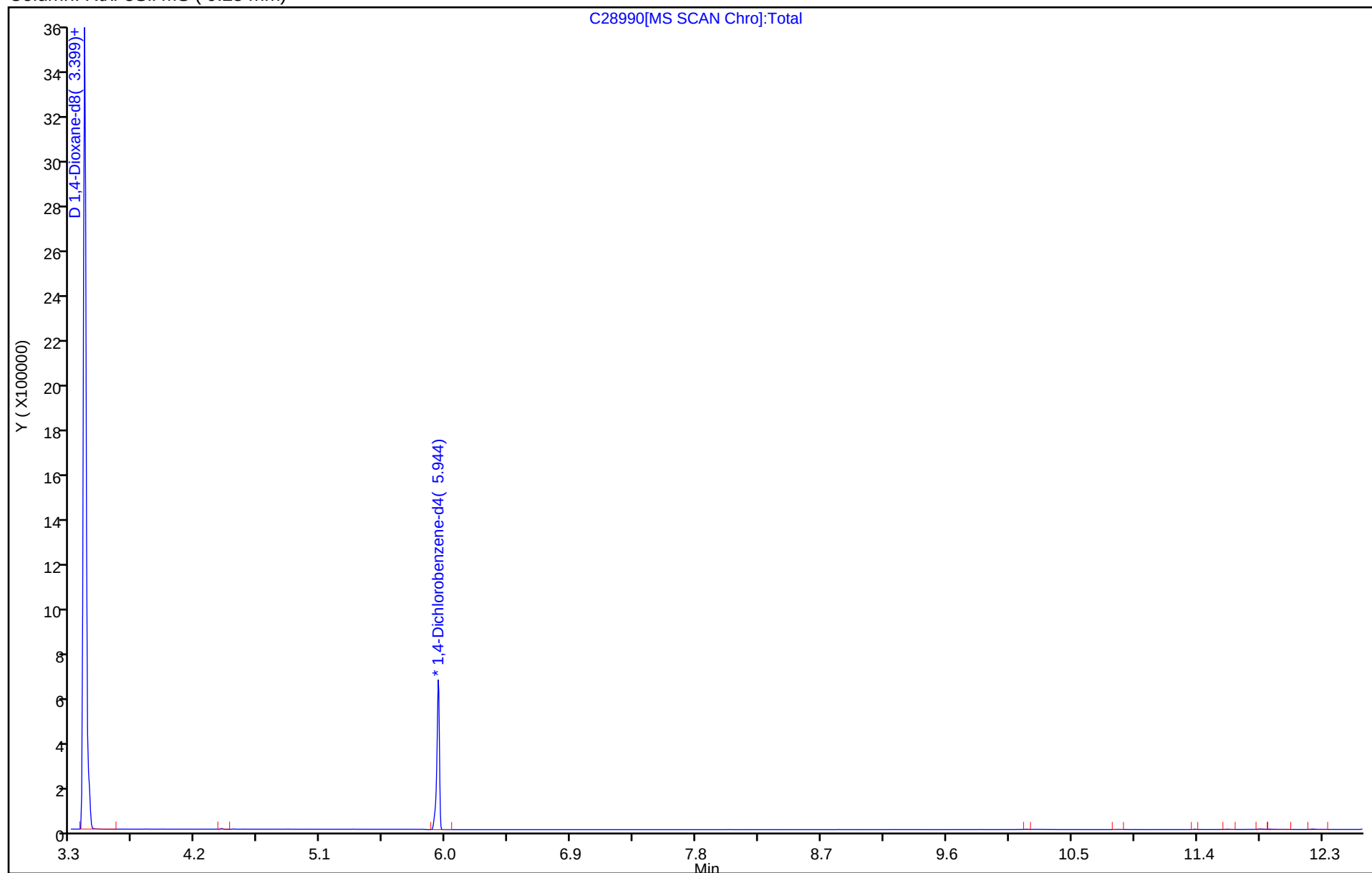
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28991.D  
 Lims ID: STD3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 11-May-2018 15:44:30 ALS Bottle#: 14 Worklist Smp#: 7  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0071845-007  
 Operator ID: Instrument ID: CBNAMS13  
 Sublist: chrom-8270\_Isotope\*sub1  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 14-May-2018 12:12:28 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:37

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.400        | 3.400            | 0.000            | 0  | 2573218  | 4.00             | 3.91               |       |
| 2 1,4-Dioxane              | 88  | 3.428        | 3.428            | 0.000            | 81 | 88487    | 0.1000           | 0.1062             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.948        | 5.948            | 0.000            | 97 | 332866   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_ISOTOPL3\_00001

Amount Added: 1.00

Units: mL



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28991.D

Injection Date: 11-May-2018 15:44:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD3

Worklist Smp#: 7

Client ID:

Injection Vol: 5.0 ul

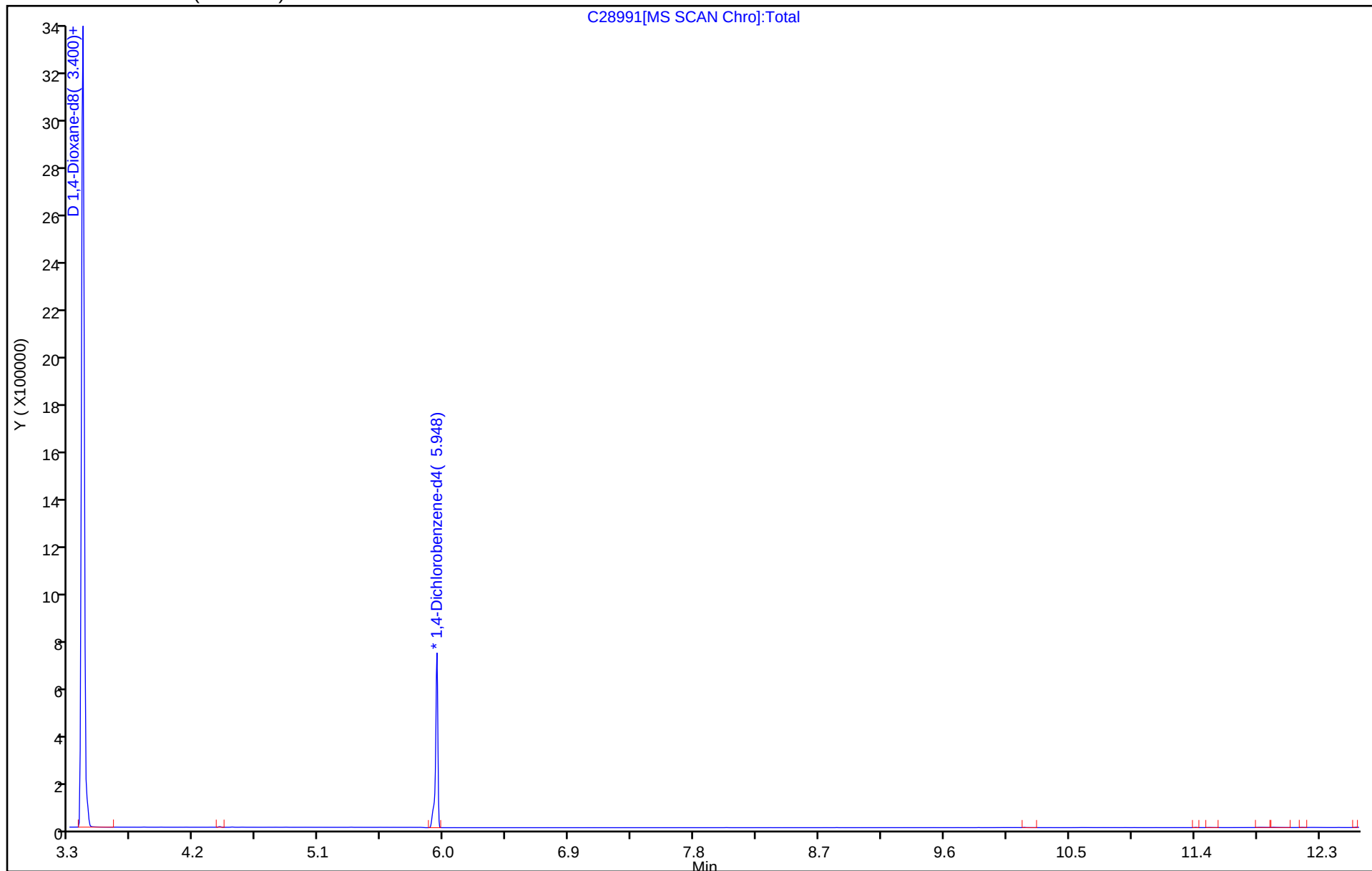
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28992.D  
 Lims ID: STD2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 11-May-2018 16:02:30 ALS Bottle#: 15 Worklist Smp#: 8  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0071845-008  
 Operator ID: Instrument ID: CBNAMS13  
 Sublist: chrom-8270\_Isotope\*sub1  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 14-May-2018 12:12:29 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:44

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.400        | 3.400            | 0.000            | 0  | 2691312  | 4.00             | 3.99               |       |
| 2 1,4-Dioxane              | 88  | 3.435        | 3.428            | 0.007            | 85 | 40300    | 0.0400           | 0.0463             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.948        | 5.948            | 0.000            | 97 | 341640   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_ISOTOPL2\_00001

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28992.D

Injection Date: 11-May-2018 16:02:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD2

Worklist Smp#: 8

Client ID:

Injection Vol: 5.0 ul

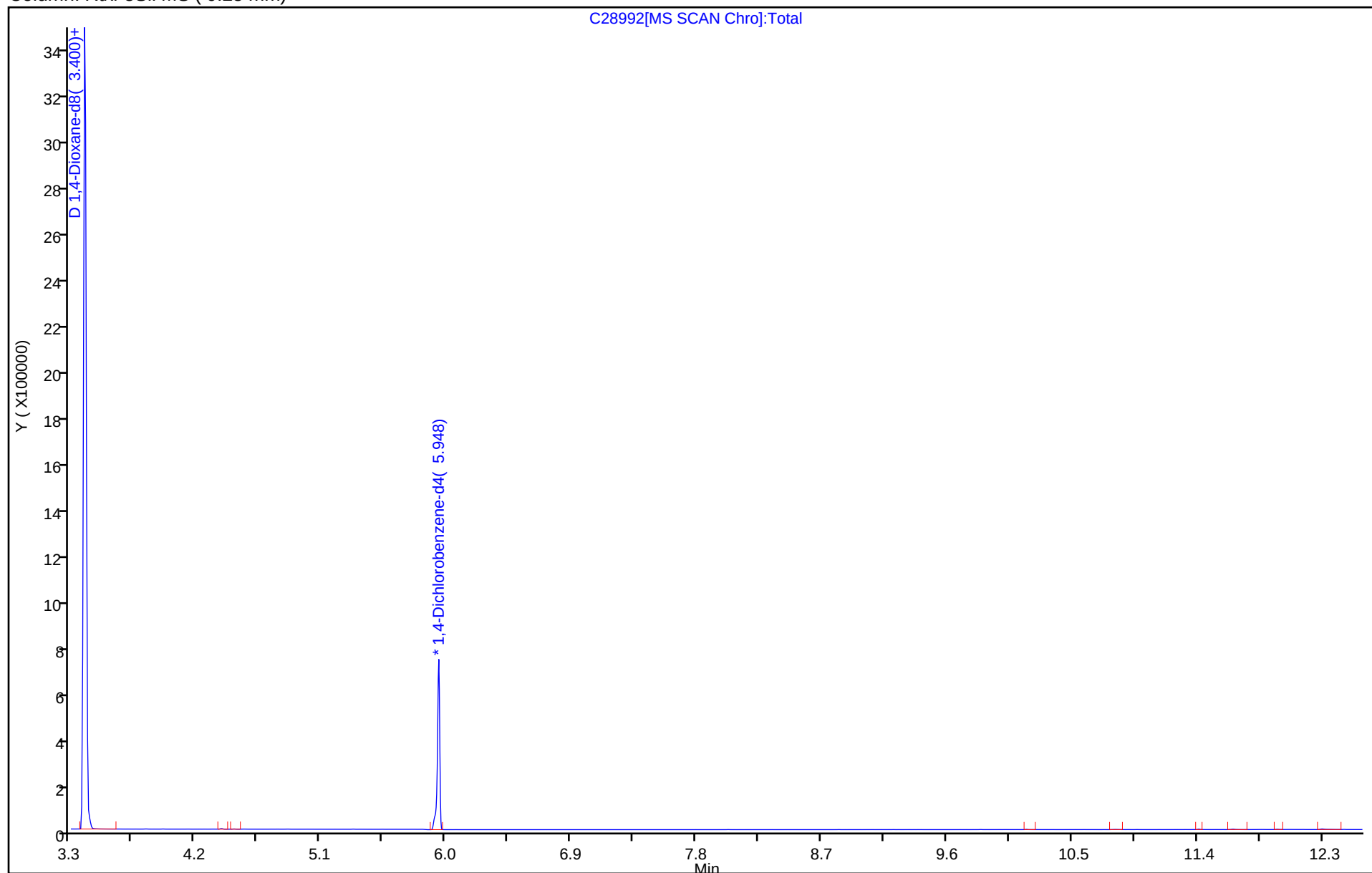
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Lims ID: STD1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 11-May-2018 17:20:30 ALS Bottle#: 16 Worklist Smp#: 9  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0071845-009  
 Operator ID: Instrument ID: CBNAMS13  
 Sublist: chrom-8270\_Isotope\*sub1  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 14-May-2018 12:12:30 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK013

First Level Reviewer: johnstonm1

Date: 14-May-2018 08:54:50

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 3.400        | 3.400            | 0.000            | 0  | 2599863  | 4.00             | 4.05               |       |
| 2 1,4-Dioxane              | 88  | 3.428        | 3.428            | 0.000            | 87 | 19118    | 0.0200           | 0.0227             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.948        | 5.948            | 0.000            | 98 | 324883   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_ISOTOPL1\_00001

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D

Injection Date: 11-May-2018 17:20:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: STD1

Worklist Smp#: 9

Client ID:

Injection Vol: 5.0 ul

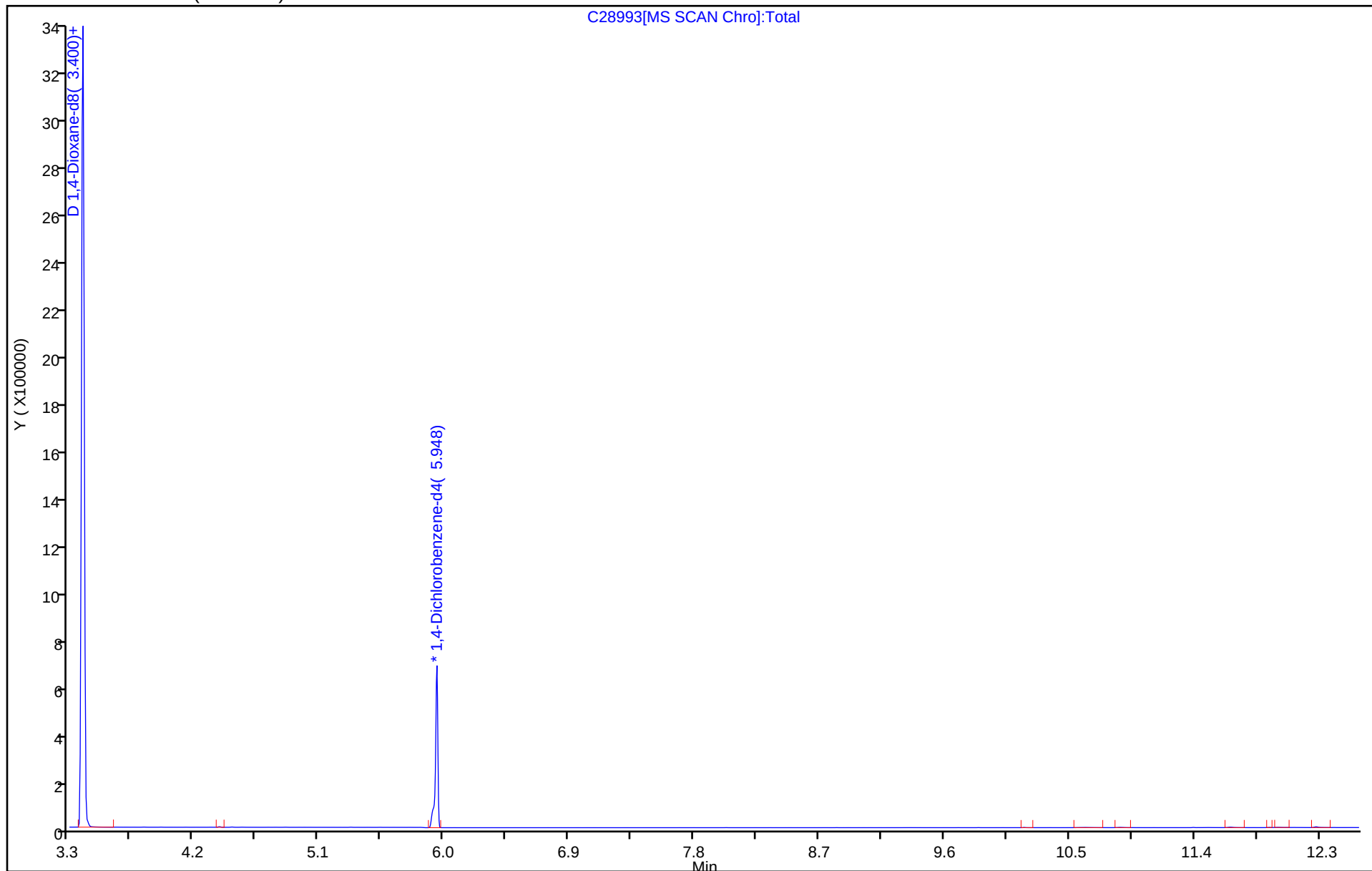
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCVIS 460-556593/2 Calibration Date: 10/02/2018 08:13  
Instrument ID: CBNAMS13 Calib Start Date: 05/11/2018 12:48  
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 05/11/2018 17:20  
Lab File ID: C31530.D Conc. Units: ug/L

| ANALYTE        | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|----------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| 1,4-Dioxane    | AveID         | 1.295   | 1.289  |         | 498            | 500             | -0.5 |           |
| 1,4-Dioxane-d8 | Ave           | 0.3953  | 0.3676 |         | 3720           | 4000            | -7.0 | 50.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31530.D  
 Lims ID: ccvis  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 02-Oct-2018 08:13:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079574-002  
 Operator ID: Instrument ID: CBNAMS13  
 Sublist: chrom-8270\_Isotope\*sub1  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK014

First Level Reviewer: nimerd

Date: 02-Oct-2018 08:25:59

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.952        | 2.952            | 0.000            | 0  | 3247811  | 4.00             | 3.72               |       |
| 2 1,4-Dioxane              | 88  | 2.980        | 2.980            | 0.000            | 83 | 523167   | 0.5000           | 0.4977             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 96 | 441778   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_ISOTOPL5\_00002

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31530.D

Injection Date: 02-Oct-2018 08:13:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

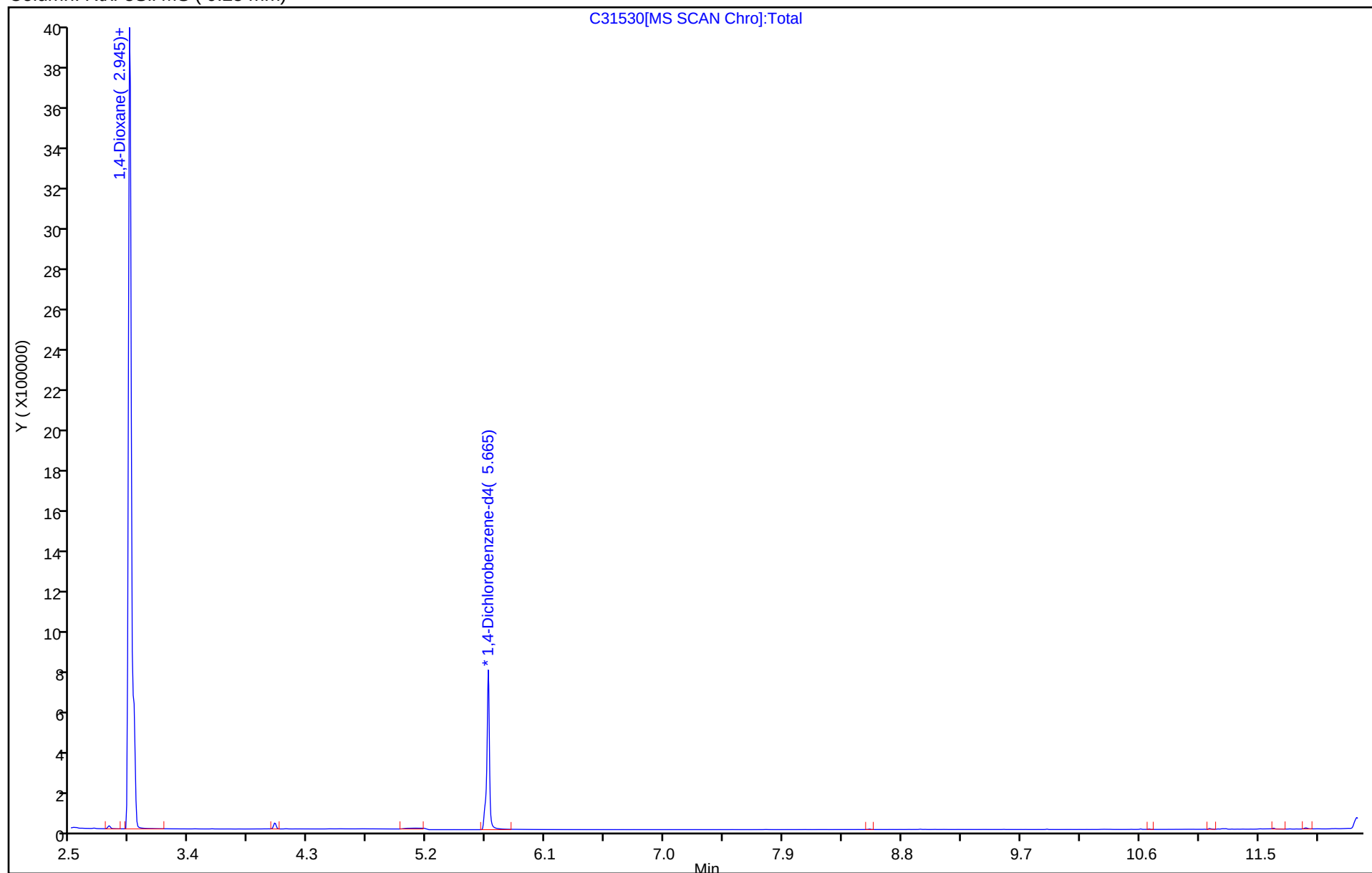
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)





FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCVIS 460-557609/2 Calibration Date: 10/05/2018 05:58  
Instrument ID: CBNAMS13 Calib Start Date: 05/11/2018 12:48  
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 05/11/2018 17:20  
Lab File ID: C31606.D Conc. Units: ug/L

| ANALYTE        | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|----------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| 1,4-Dioxane    | AveID         | 1.295   | 1.282  |         | 495            | 500             | -1.0 |           |
| 1,4-Dioxane-d8 | Ave           | 0.3953  | 0.3572 |         | 3610           | 4000            | -9.6 | 50.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31606.D  
 Lims ID: ccvis  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 05-Oct-2018 05:58:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079770-002  
 Operator ID: Instrument ID: CBNAMS13  
 Sublist: chrom-8270\_Isotope\*sub1  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 05-Oct-2018 10:05:26 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK019

First Level Reviewer: zhaoc

Date: 05-Oct-2018 08:50:57

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.924        | 2.929            | -0.007           | 0  | 3026106  | 4.00             | 3.61               |       |
| 2 1,4-Dioxane              | 88  | 2.952        | 2.952            | 0.000            | 83 | 485050   | 0.5000           | 0.4952             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 98 | 423576   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_ISOTOPL5\_00002

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31606.D

Injection Date: 05-Oct-2018 05:58:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: ccvis

Worklist Smp#: 2

Client ID:

Injection Vol: 5.0 ul

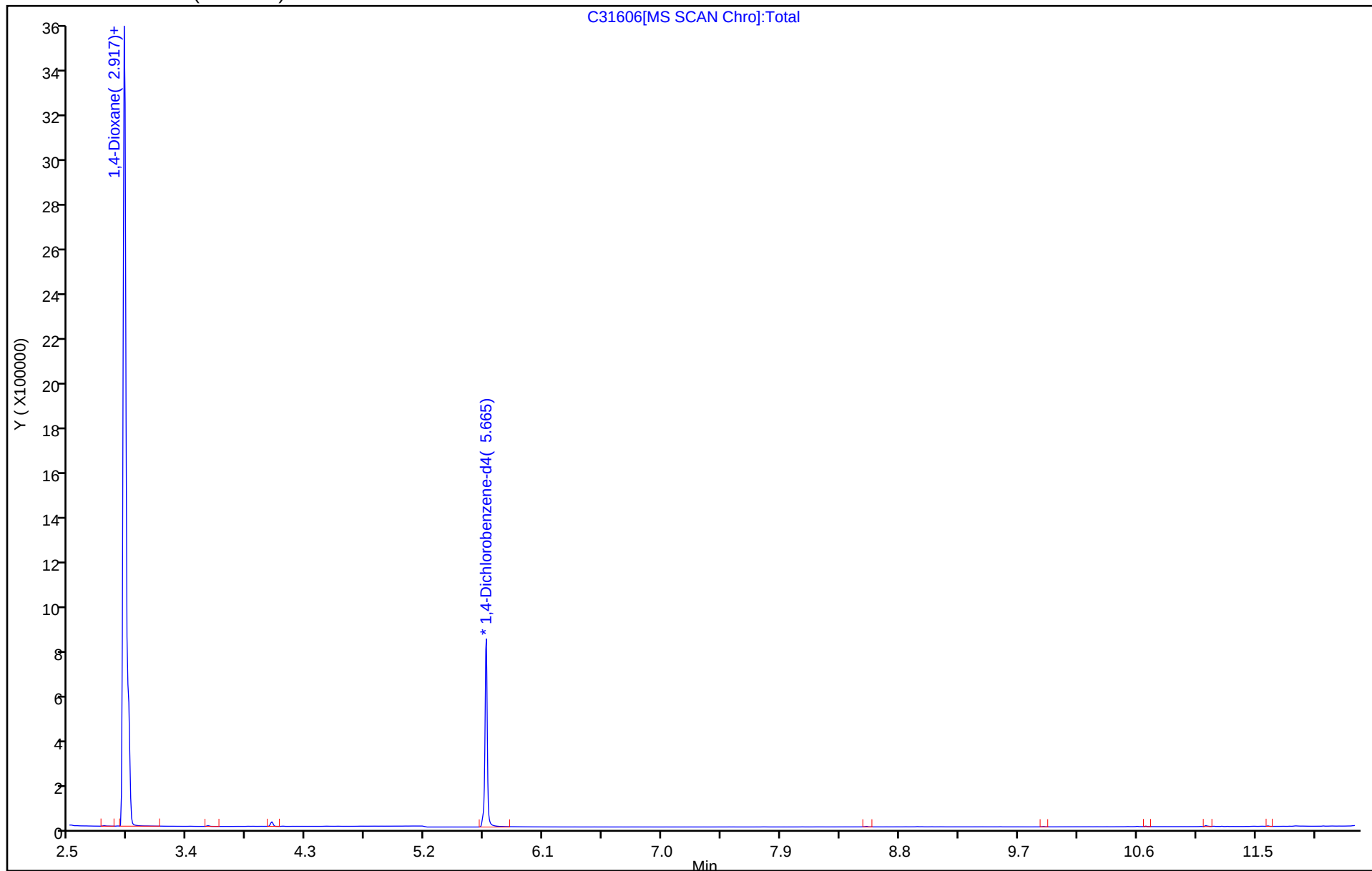
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28985.D  
Lims ID: DFTPP  
Client ID:  
Sample Type: DFTPP  
Inject. Date: 11-May-2018 12:33:30 ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 5.0 ul Dil. Factor: 1.0000  
Sample Info: 460-0071845-001  
Operator ID: Instrument ID: CBNAMS13  
Method: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\8270\_Isotope.m  
Limit Group: MSS 8270 Isotope Dilution IS  
Last Update: 14-May-2018 12:12:23 Calib Date: 11-May-2018 17:20:30  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
Process Host: XAWRK013

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|------------------|--------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|------------------|--------------------|-------|

3 DFTPP

**Reagents:**

SMDFTP\_CH\_00024

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20180511-71845.b\\C28985.D

Injection Date: 11-May-2018 12:33:30

Instrument ID: CBNAMS13

Lims ID: DFTPP

Client ID:

Operator ID:

ALS Bottle#:

1

Worklist Smp#:

1

Injection Vol: 5.0 ul

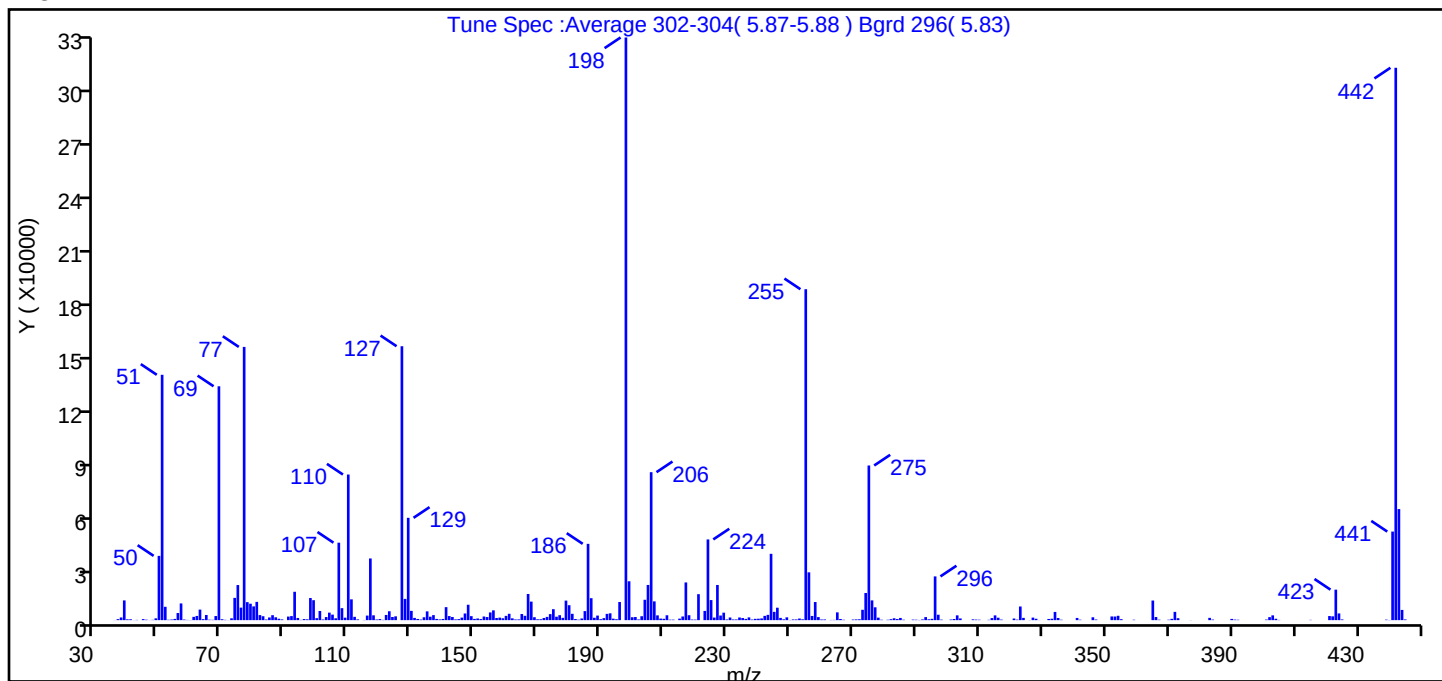
Dil. Factor: 1.0000

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Tune Method: DFTPP Method 8270

## 3 DFTPP



| m/z | Ion Abundance Criteria             | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 198 | Base peak, 100% relative abundance | 100.0                |
| 51  | 30-60% of mass 198                 | 42.1                 |
| 68  | <2% of mass 69                     | 0.7 (1.8)            |
| 69  | Present                            | 40.1                 |
| 70  | <2% of mass 69                     | 0.2 (0.4)            |
| 127 | 40-60% of mass 198                 | 47.0                 |
| 197 | <1% of mass 198                    | 0.0                  |
| 199 | 5-9% of mass 198                   | 6.7                  |
| 275 | 10-30% of mass 198                 | 26.5                 |
| 365 | >1% of mass 198                    | 3.4                  |
| 441 | Present but less than mass 443     | 15.2 (79.7)          |
| 442 | >40% of mass 198                   | 94.8                 |
| 443 | 17-23% of mass 442                 | 19.1 (20.1)          |

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28985.D\8270\_Isotope.rsl\spectra.d  
Injection Date: 11-May-2018 12:33:30  
Spectrum: Tune Spec :Average 302-304( 5.87-5.88 ) Bgrd 296( 5.83)  
Base Peak: 198.00  
Minimum % Base Peak: 0  
Number of Points: 315

| m/z   | Y      | m/z    | Y      | m/z    | Y     | m/z    | Y     |
|-------|--------|--------|--------|--------|-------|--------|-------|
| 36.00 | 49     | 118.00 | 2662   | 199.00 | 21424 | 284.00 | 629   |
| 37.00 | 560    | 119.00 | 356    | 200.00 | 1603  | 285.00 | 1209  |
| 38.00 | 1472   | 120.00 | 579    | 201.00 | 1724  | 286.00 | 232   |
| 39.00 | 10876  | 121.00 | 155    | 202.00 | 387   | 289.00 | 295   |
| 40.00 | 455    | 122.00 | 2863   | 203.00 | 2164  | 290.00 | 241   |
| 41.00 | 481    | 123.00 | 4900   | 204.00 | 11226 | 291.00 | 106   |
| 42.00 | 39     | 124.00 | 1725   | 205.00 | 19392 | 292.00 | 398   |
| 43.00 | 136    | 125.00 | 2104   | 206.00 | 81552 | 293.00 | 1687  |
| 45.00 | 569    | 127.00 | 150976 | 207.00 | 10345 | 294.00 | 477   |
| 46.00 | 256    | 128.00 | 11721  | 208.00 | 2633  | 295.00 | 726   |
| 47.00 | 48     | 129.00 | 56400  | 209.00 | 858   | 296.00 | 24112 |
| 48.00 | 154    | 130.00 | 5115   | 210.00 | 754   | 297.00 | 2986  |
| 49.00 | 996    | 131.00 | 1239   | 211.00 | 2693  | 298.00 | 280   |
| 50.00 | 35424  | 132.00 | 659    | 212.00 | 261   | 301.00 | 344   |
| 51.00 | 135232 | 133.00 | 329    | 213.00 | 275   | 302.00 | 633   |
| 52.00 | 7359   | 134.00 | 1590   | 215.00 | 837   | 303.00 | 2643  |
| 53.00 | 210    | 135.00 | 4840   | 216.00 | 2019  | 304.00 | 933   |
| 54.00 | 335    | 136.00 | 1900   | 217.00 | 20784 | 308.00 | 434   |
| 55.00 | 677    | 137.00 | 2771   | 218.00 | 2720  | 309.00 | 311   |
| 56.00 | 3922   | 138.00 | 678    | 219.00 | 327   | 310.00 | 233   |
| 57.00 | 9214   | 139.00 | 389    | 220.00 | 311   | 313.00 | 174   |
| 58.00 | 331    | 140.00 | 654    | 221.00 | 14315 | 314.00 | 1138  |
| 59.00 | 120    | 141.00 | 7166   | 223.00 | 5085  | 315.00 | 2625  |
| 60.00 | 90     | 142.00 | 2254   | 224.00 | 44488 | 316.00 | 1335  |
| 61.00 | 1811   | 143.00 | 1719   | 225.00 | 11061 | 317.00 | 300   |
| 62.00 | 2317   | 144.00 | 426    | 226.00 | 1424  | 321.00 | 894   |
| 63.00 | 5816   | 145.00 | 563    | 227.00 | 19384 | 322.00 | 294   |
| 64.00 | 555    | 146.00 | 1400   | 228.00 | 2545  | 323.00 | 7522  |
| 65.00 | 2842   | 147.00 | 3667   | 229.00 | 4119  | 324.00 | 1244  |
| 66.00 | 251    | 148.00 | 8479   | 230.00 | 384   | 326.00 | 59    |
| 67.00 | 178    | 149.00 | 2193   | 231.00 | 1459  | 327.00 | 1399  |
| 68.00 | 2257   | 150.00 | 689    | 232.00 | 385   | 328.00 | 759   |
| 69.00 | 128904 | 151.00 | 917    | 233.00 | 373   | 329.00 | 56    |

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28985.D\8270\_Isotope.rslt\spectra.d

Injection Date: 11-May-2018 12:33:30

Spectrum: Tune Spec :Average 302-304( 5.87-5.88 ) Bgrd 296( 5.83)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 315

| m/z    | Y      | m/z    | Y     | m/z    | Y      | m/z    | Y     |
|--------|--------|--------|-------|--------|--------|--------|-------|
| 70.00  | 507    | 152.00 | 605   | 234.00 | 1468   | 332.00 | 652   |
| 71.00  | 162    | 153.00 | 1996  | 235.00 | 1159   | 333.00 | 788   |
| 72.00  | 53     | 154.00 | 1704  | 236.00 | 695    | 334.00 | 4537  |
| 73.00  | 1010   | 155.00 | 4248  | 237.00 | 1514   | 335.00 | 1179  |
| 74.00  | 12272  | 156.00 | 5394  | 238.00 | 342    | 336.00 | 228   |
| 75.00  | 19344  | 157.00 | 1184  | 239.00 | 721    | 341.00 | 1210  |
| 76.00  | 6896   | 158.00 | 1388  | 240.00 | 795    | 342.00 | 233   |
| 77.00  | 150592 | 159.00 | 1030  | 241.00 | 946    | 346.00 | 1584  |
| 78.00  | 9919   | 160.00 | 2360  | 242.00 | 2348   | 347.00 | 356   |
| 79.00  | 9058   | 161.00 | 3502  | 243.00 | 2909   | 352.00 | 2034  |
| 80.00  | 7582   | 162.00 | 993   | 244.00 | 36560  | 353.00 | 1993  |
| 81.00  | 10071  | 163.00 | 375   | 245.00 | 4562   | 354.00 | 2402  |
| 82.00  | 2783   | 164.00 | 408   | 246.00 | 6853   | 355.00 | 538   |
| 83.00  | 2157   | 165.00 | 3389  | 247.00 | 1236   | 359.00 | 225   |
| 84.00  | 351    | 166.00 | 2398  | 248.00 | 451    | 365.00 | 10809 |
| 85.00  | 1479   | 167.00 | 14423 | 249.00 | 1549   | 366.00 | 1720  |
| 86.00  | 2732   | 168.00 | 10214 | 250.00 | 103    | 367.00 | 253   |
| 87.00  | 1579   | 169.00 | 1613  | 251.00 | 388    | 370.00 | 225   |
| 88.00  | 770    | 170.00 | 482   | 252.00 | 391    | 371.00 | 728   |
| 89.00  | 398    | 171.00 | 499   | 253.00 | 887    | 372.00 | 4559  |
| 91.00  | 1966   | 172.00 | 1186  | 254.00 | 465    | 373.00 | 1064  |
| 92.00  | 2232   | 173.00 | 1788  | 255.00 | 182400 | 377.00 | 50    |
| 93.00  | 15636  | 174.00 | 3316  | 256.00 | 26352  | 383.00 | 1257  |
| 94.00  | 1209   | 175.00 | 6051  | 257.00 | 2312   | 384.00 | 308   |
| 95.00  | 145    | 176.00 | 1886  | 258.00 | 9992   | 390.00 | 678   |
| 96.00  | 595    | 177.00 | 2731  | 259.00 | 1687   | 391.00 | 307   |
| 97.00  | 457    | 178.00 | 1265  | 260.00 | 360    | 392.00 | 218   |
| 98.00  | 12185  | 179.00 | 10767 | 261.00 | 375    | 401.00 | 324   |
| 99.00  | 10997  | 180.00 | 8233  | 263.00 | 112    | 402.00 | 1656  |
| 100.00 | 1090   | 181.00 | 3487  | 264.00 | 144    | 403.00 | 2639  |
| 101.00 | 5050   | 182.00 | 613   | 265.00 | 4290   | 404.00 | 756   |
| 102.00 | 377    | 183.00 | 260   | 266.00 | 632    | 405.00 | 123   |
| 103.00 | 1699   | 184.00 | 916   | 267.00 | 207    | 415.00 | 151   |
| 104.00 | 4132   | 185.00 | 4991  | 270.00 | 335    | 421.00 | 2267  |

Report Date: 14-May-2018 12:12:24

Chrom Revision: 2.2 11-May-2018 08:54:46

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28985.D\8270\_Isotope.rsl\spectra.d

Injection Date: 11-May-2018 12:33:30

Spectrum: Tune Spec :Average 302-304( 5.87-5.88 ) Bgrd 296( 5.83)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 315

| m/z    | Y     | m/z    | Y      | m/z    | Y     | m/z    | Y      |
|--------|-------|--------|--------|--------|-------|--------|--------|
| 105.00 | 3036  | 186.00 | 42056  | 271.00 | 409   | 422.00 | 2101   |
| 106.00 | 1022  | 187.00 | 12106  | 272.00 | 486   | 423.00 | 16800  |
| 107.00 | 42696 | 188.00 | 1318   | 273.00 | 5701  | 424.00 | 3696   |
| 108.00 | 6612  | 189.00 | 2517   | 274.00 | 14971 | 425.00 | 385    |
| 109.00 | 1360  | 190.00 | 518    | 275.00 | 85240 | 439.00 | 278    |
| 110.00 | 80256 | 191.00 | 1108   | 276.00 | 10891 | 440.00 | 84     |
| 111.00 | 11459 | 192.00 | 3454   | 277.00 | 7084  | 441.00 | 48816  |
| 112.00 | 1823  | 193.00 | 3761   | 278.00 | 1373  | 442.00 | 304448 |
| 113.00 | 420   | 194.00 | 809    | 279.00 | 229   | 443.00 | 61224  |
| 115.00 | 100   | 195.00 | 507    | 281.00 | 211   | 444.00 | 5633   |
| 116.00 | 2517  | 196.00 | 9992   | 282.00 | 541   | 445.00 | 392    |
| 117.00 | 33992 | 198.00 | 321152 | 283.00 | 1038  |        |        |



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31529.D  
Lims ID: DFTPP  
Client ID:  
Sample Type: DFTPP  
Inject. Date: 02-Oct-2018 07:30:30 ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 5.0 ul Dil. Factor: 1.0000  
Sample Info: 460-0079574-001  
Misc. Info.: DFTPP  
Operator ID: Instrument ID: CBNAMS13  
Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
Limit Group: MSS 8270 Isotope Dilution IS  
Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
Process Host: XAWRK014

First Level Reviewer: nimerd

Date: 02-Oct-2018 08:02:23

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|------------------|--------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|------------------|--------------------|-------|

3 DFTPP

**Reagents:**

SMDFTP\_CH\_00025

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31529.D

Injection Date: 02-Oct-2018 07:30:30

Instrument ID: CBNAMS13

Lims ID: DFTPP

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 5.0 ul

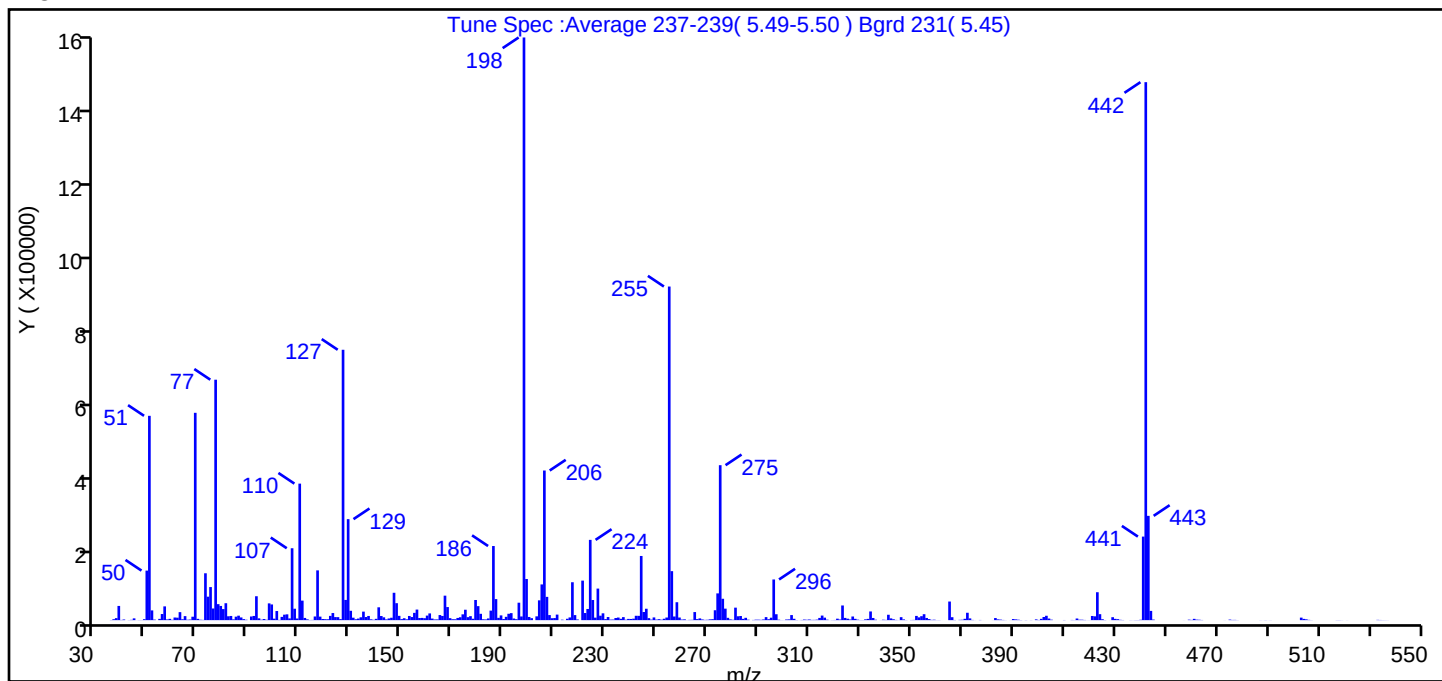
Dil. Factor: 1.0000

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Tune Method: DFTPP Method 8270

## 3 DFTPP



| m/z | Ion Abundance Criteria             | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 198 | Base peak, 100% relative abundance | 100.0                |
| 51  | 30-60% of mass 198                 | 35.1                 |
| 68  | <2% of mass 69                     | 0.6 (1.7)            |
| 69  | Present                            | 35.6                 |
| 70  | <2% of mass 69                     | 0.2 (0.6)            |
| 127 | 40-60% of mass 198                 | 46.4                 |
| 197 | <1% of mass 198                    | 0.6                  |
| 199 | 5-9% of mass 198                   | 7.1                  |
| 275 | 10-30% of mass 198                 | 26.6                 |
| 365 | >1% of mass 198                    | 3.2                  |
| 441 | Present but less than mass 443     | 14.3 (80.1)          |
| 442 | >40% of mass 198                   | 92.3                 |
| 443 | 17-23% of mass 442                 | 17.9 (19.4)          |

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31529.D\8270\_Isotope.rsl\spectra.d  
Injection Date: 02-Oct-2018 07:30:30  
Spectrum: Tune Spec :Average 237-239( 5.49-5.50 ) Bgrd 231( 5.45)  
Base Peak: 198.00  
Minimum % Base Peak: 0  
Number of Points: 413

| m/z   | Y      | m/z    | Y     | m/z    | Y      | m/z    | Y     |
|-------|--------|--------|-------|--------|--------|--------|-------|
| 36.00 | 376    | 143.00 | 7523  | 250.00 | 1490   | 357.00 | 2770  |
| 37.00 | 2484   | 144.00 | 2000  | 251.00 | 2604   | 358.00 | 757   |
| 38.00 | 5366   | 145.00 | 4516  | 252.00 | 1234   | 359.00 | 1196  |
| 39.00 | 38080  | 146.00 | 6400  | 253.00 | 3731   | 360.00 | 258   |
| 40.00 | 549    | 147.00 | 73376 | 254.00 | 6991   | 361.00 | 281   |
| 41.00 | 1740   | 148.00 | 45464 | 255.00 | 894400 | 362.00 | 53    |
| 43.00 | 299    | 149.00 | 11525 | 256.00 | 131328 | 365.00 | 49912 |
| 44.00 | 829    | 150.00 | 2738  | 257.00 | 9768   | 366.00 | 7893  |
| 45.00 | 4762   | 151.00 | 5137  | 258.00 | 48032  | 367.00 | 483   |
| 46.00 | 148    | 152.00 | 2230  | 259.00 | 7024   | 369.00 | 788   |
| 47.00 | 318    | 153.00 | 11178 | 260.00 | 1596   | 370.00 | 1074  |
| 48.00 | 298    | 154.00 | 8271  | 261.00 | 2183   | 371.00 | 3581  |
| 49.00 | 2522   | 155.00 | 19504 | 262.00 | 236    | 372.00 | 19792 |
| 50.00 | 132800 | 156.00 | 28352 | 263.00 | 714    | 373.00 | 4656  |
| 51.00 | 547776 | 157.00 | 5683  | 264.00 | 888    | 374.00 | 578   |
| 52.00 | 26120  | 158.00 | 6003  | 265.00 | 21664  | 375.00 | 110   |
| 53.00 | 1500   | 159.00 | 5197  | 266.00 | 2780   | 377.00 | 497   |
| 55.00 | 3381   | 160.00 | 12165 | 267.00 | 4672   | 378.00 | 50    |
| 56.00 | 16400  | 161.00 | 18056 | 268.00 | 1865   | 382.00 | 123   |
| 57.00 | 36904  | 162.00 | 4194  | 269.00 | 744    | 383.00 | 5621  |
| 58.00 | 1890   | 163.00 | 1869  | 270.00 | 1009   | 384.00 | 2086  |
| 59.00 | 3459   | 164.00 | 1929  | 271.00 | 2095   | 385.00 | 1449  |
| 60.00 | 867    | 165.00 | 13651 | 272.00 | 2579   | 386.00 | 552   |
| 61.00 | 7055   | 166.00 | 11178 | 273.00 | 26544  | 387.00 | 182   |
| 62.00 | 6589   | 167.00 | 65616 | 274.00 | 71736  | 389.00 | 159   |
| 63.00 | 21464  | 168.00 | 35072 | 275.00 | 415424 | 390.00 | 2944  |
| 64.00 | 2409   | 169.00 | 5282  | 276.00 | 57304  | 391.00 | 2105  |
| 65.00 | 10771  | 170.00 | 2449  | 277.00 | 30824  | 392.00 | 1218  |
| 66.00 | 1109   | 171.00 | 2344  | 278.00 | 6204   | 393.00 | 374   |
| 67.00 | 1600   | 172.00 | 5891  | 279.00 | 2014   | 395.00 | 308   |
| 68.00 | 9183   | 173.00 | 7748  | 280.00 | 1045   | 397.00 | 256   |
| 69.00 | 555840 | 174.00 | 15588 | 281.00 | 33480  | 399.00 | 2044  |
| 70.00 | 3486   | 175.00 | 27920 | 282.00 | 10366  | 400.00 | 517   |

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31529.D\8270\_Isotope.rsl\spectra.d

Injection Date: 02-Oct-2018 07:30:30

Spectrum: Tune Spec :Average 237-239( 5.49-5.50 ) Bgrd 231( 5.45)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 413

| m/z    | Y      | m/z    | Y       | m/z    | Y      | m/z    | Y       |
|--------|--------|--------|---------|--------|--------|--------|---------|
| 71.00  | 1087   | 176.00 | 7960    | 283.00 | 11071  | 401.00 | 3486    |
| 72.00  | 729    | 177.00 | 10711   | 284.00 | 3449   | 402.00 | 8417    |
| 73.00  | 125664 | 178.00 | 3724    | 285.00 | 6256   | 403.00 | 11730   |
| 74.00  | 62888  | 179.00 | 54024   | 286.00 | 1255   | 404.00 | 4277    |
| 75.00  | 88672  | 180.00 | 37536   | 288.00 | 545    | 405.00 | 1261    |
| 76.00  | 31256  | 181.00 | 16976   | 289.00 | 1279   | 410.00 | 406     |
| 77.00  | 644608 | 182.00 | 2311    | 290.00 | 1259   | 413.00 | 528     |
| 78.00  | 42888  | 183.00 | 1889    | 291.00 | 886    | 414.00 | 303     |
| 79.00  | 38088  | 184.00 | 4549    | 292.00 | 1846   | 415.00 | 4382    |
| 80.00  | 29624  | 185.00 | 25528   | 293.00 | 8102   | 416.00 | 1172    |
| 81.00  | 45384  | 186.00 | 198720  | 294.00 | 2510   | 417.00 | 1144    |
| 82.00  | 10367  | 187.00 | 56432   | 295.00 | 6516   | 418.00 | 532     |
| 83.00  | 11199  | 188.00 | 6121    | 296.00 | 109032 | 419.00 | 166     |
| 84.00  | 2094   | 189.00 | 12744   | 297.00 | 15823  | 420.00 | 184     |
| 85.00  | 9343   | 190.00 | 2979    | 298.00 | 1211   | 421.00 | 11167   |
| 86.00  | 11977  | 191.00 | 8904    | 299.00 | 260    | 422.00 | 10256   |
| 87.00  | 7230   | 192.00 | 17112   | 300.00 | 187    | 423.00 | 74840   |
| 88.00  | 2721   | 193.00 | 18800   | 301.00 | 1733   | 424.00 | 16022   |
| 89.00  | 1033   | 194.00 | 4335    | 302.00 | 2048   | 425.00 | 2458    |
| 91.00  | 9764   | 195.00 | 2528    | 303.00 | 13593  | 426.00 | 377     |
| 92.00  | 11242  | 196.00 | 46768   | 304.00 | 3642   | 428.00 | 102     |
| 93.00  | 64096  | 197.00 | 9843    | 305.00 | 368    | 429.00 | 7878    |
| 94.00  | 4798   | 198.00 | 1562112 | 306.00 | 115    | 430.00 | 3478    |
| 95.00  | 1158   | 199.00 | 110320  | 307.00 | 506    | 431.00 | 2643    |
| 96.00  | 3029   | 200.00 | 8500    | 308.00 | 1604   | 432.00 | 887     |
| 97.00  | 1006   | 201.00 | 5251    | 309.00 | 1088   | 433.00 | 428     |
| 98.00  | 44960  | 203.00 | 10186   | 310.00 | 1765   | 436.00 | 248     |
| 99.00  | 42072  | 204.00 | 53120   | 311.00 | 689    | 437.00 | 144     |
| 100.00 | 3963   | 205.00 | 95768   | 312.00 | 761    | 438.00 | 346     |
| 101.00 | 24432  | 206.00 | 401152  | 313.00 | 1361   | 439.00 | 361     |
| 102.00 | 631    | 207.00 | 62400   | 314.00 | 5935   | 440.00 | 1042    |
| 103.00 | 8715   | 208.00 | 13621   | 315.00 | 12261  | 441.00 | 224000  |
| 104.00 | 14677  | 209.00 | 5127    | 316.00 | 6702   | 442.00 | 1442304 |
| 105.00 | 15552  | 210.00 | 5546    | 317.00 | 1289   | 443.00 | 279616  |

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31529.D\8270\_Isotope.rsl\spectra.d

Injection Date: 02-Oct-2018 07:30:30

Spectrum: Tune Spec :Average 237-239( 5.49-5.50 ) Bgrd 231( 5.45)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 413

| m/z    | Y      | m/z    | Y      | m/z    | Y     | m/z    | Y     |
|--------|--------|--------|--------|--------|-------|--------|-------|
| 106.00 | 4604   | 211.00 | 14862  | 318.00 | 122   | 444.00 | 24792 |
| 107.00 | 192768 | 213.00 | 1220   | 319.00 | 272   | 445.00 | 1510  |
| 108.00 | 30616  | 214.00 | 148    | 320.00 | 527   | 457.00 | 105   |
| 109.00 | 4357   | 215.00 | 3686   | 321.00 | 3934  | 459.00 | 1280  |
| 110.00 | 366016 | 216.00 | 7240   | 322.00 | 1674  | 460.00 | 657   |
| 111.00 | 52328  | 217.00 | 101608 | 323.00 | 39328 | 461.00 | 3476  |
| 112.00 | 5933   | 218.00 | 13518  | 324.00 | 5984  | 462.00 | 1371  |
| 113.00 | 2155   | 219.00 | 1852   | 325.00 | 3839  | 463.00 | 1063  |
| 114.00 | 432    | 221.00 | 105968 | 326.00 | 1768  | 464.00 | 478   |
| 115.00 | 606    | 222.00 | 19088  | 327.00 | 9780  | 473.00 | 127   |
| 116.00 | 9828   | 223.00 | 29920  | 328.00 | 3511  | 475.00 | 1505  |
| 117.00 | 133440 | 224.00 | 215232 | 329.00 | 1296  | 476.00 | 590   |
| 118.00 | 9415   | 225.00 | 53952  | 330.00 | 354   | 477.00 | 676   |
| 119.00 | 3040   | 226.00 | 6683   | 331.00 | 363   | 478.00 | 247   |
| 120.00 | 2566   | 227.00 | 84608  | 332.00 | 2174  | 487.00 | 196   |
| 121.00 | 2382   | 228.00 | 11896  | 333.00 | 3393  | 488.00 | 57    |
| 122.00 | 11402  | 229.00 | 18328  | 334.00 | 23296 | 489.00 | 254   |
| 123.00 | 19048  | 230.00 | 2796   | 335.00 | 5843  | 490.00 | 79    |
| 124.00 | 8171   | 231.00 | 8364   | 336.00 | 1168  | 491.00 | 176   |
| 125.00 | 8016   | 232.00 | 1402   | 338.00 | 182   | 503.00 | 6746  |
| 126.00 | 2753   | 233.00 | 1582   | 339.00 | 1187  | 504.00 | 3366  |
| 127.00 | 724864 | 234.00 | 5732   | 340.00 | 691   | 505.00 | 2180  |
| 128.00 | 54168  | 235.00 | 6970   | 341.00 | 14453 | 506.00 | 763   |
| 129.00 | 270784 | 236.00 | 3626   | 342.00 | 4689  | 507.00 | 253   |
| 130.00 | 25072  | 237.00 | 8097   | 343.00 | 2377  | 517.00 | 286   |
| 131.00 | 6583   | 238.00 | 1165   | 344.00 | 595   | 518.00 | 295   |
| 132.00 | 2376   | 239.00 | 3338   | 345.00 | 209   | 519.00 | 165   |
| 133.00 | 4184   | 240.00 | 3150   | 346.00 | 7983  | 521.00 | 132   |
| 134.00 | 7656   | 241.00 | 3918   | 347.00 | 1991  | 533.00 | 766   |
| 135.00 | 22824  | 242.00 | 11686  | 348.00 | 314   | 534.00 | 504   |
| 136.00 | 8338   | 243.00 | 11549  | 350.00 | 450   | 535.00 | 289   |
| 137.00 | 11223  | 244.00 | 172032 | 351.00 | 707   | 536.00 | 234   |
| 138.00 | 2223   | 245.00 | 21800  | 352.00 | 11339 | 537.00 | 157   |
| 139.00 | 995    | 246.00 | 30560  | 353.00 | 7423  | 550.00 | 72    |

Report Date: 03-Oct-2018 06:28:33

Chrom Revision: 2.3 19-Jul-2018 15:14:50

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31529.D\8270\_Isotope.rslt\spectra.d

Injection Date: 02-Oct-2018 07:30:30

Spectrum: Tune Spec :Average 237-239( 5.49-5.50 ) Bgrd 231( 5.45)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 413

| m/z    | Y     | m/z    | Y    | m/z    | Y     | m/z | Y |
|--------|-------|--------|------|--------|-------|-----|---|
| 140.00 | 3500  | 247.00 | 5317 | 354.00 | 10589 |     |   |
| 141.00 | 34408 | 248.00 | 1458 | 355.00 | 15914 |     |   |
| 142.00 | 11018 | 249.00 | 7270 | 356.00 | 5834  |     |   |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31605.D  
Lims ID: DFTPP  
Client ID:  
Sample Type: DFTPP  
Inject. Date: 05-Oct-2018 05:37:30 ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 5.0 ul Dil. Factor: 1.0000  
Sample Info: 460-0079770-001  
Misc. Info.: DFTPP  
Operator ID: Instrument ID: CBNAMS13  
Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\8270\_Isotope.m  
Limit Group: MSS 8270 Isotope Dilution IS  
Last Update: 05-Oct-2018 10:05:25 Calib Date: 11-May-2018 17:20:30  
Integrator: RTE ID Type: Deconvolution ID  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
Process Host: XAWRK019

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|------------------|--------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|------------------|--------------------|-------|

3 DFTPP

## Reagents:

SMDFTP\_CH\_00025

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31605.D

Injection Date: 05-Oct-2018 05:37:30

Instrument ID: CBNAMS13

Lims ID: DFTPP

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 5.0 ul

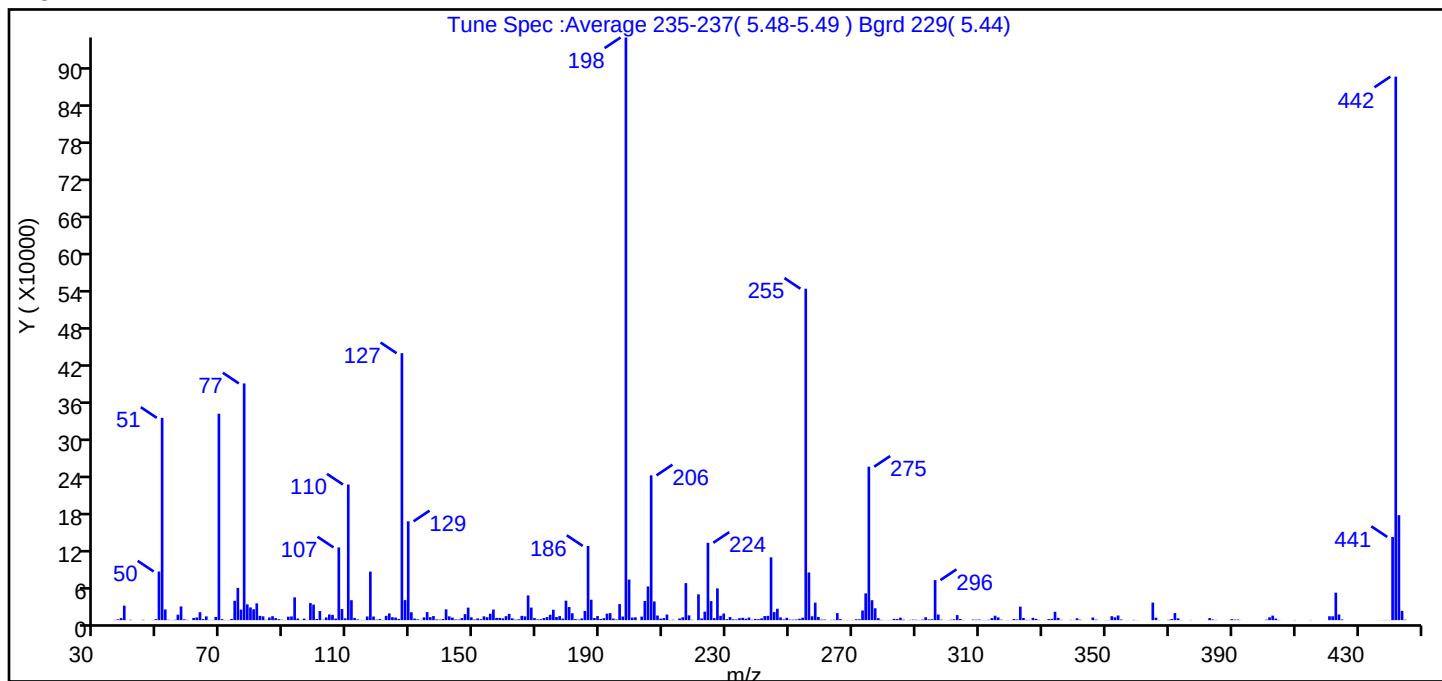
Dil. Factor: 1.0000

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Tune Method: DFTPP Method 8270

## 3 DFTPP



| m/z | Ion Abundance Criteria             | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 198 | Base peak, 100% relative abundance | 100.0                |
| 51  | 30-60% of mass 198                 | 34.7                 |
| 68  | <2% of mass 69                     | 0.5 (1.5)            |
| 69  | Present                            | 35.4                 |
| 70  | <2% of mass 69                     | 0.2 (0.5)            |
| 127 | 40-60% of mass 198                 | 45.8                 |
| 197 | <1% of mass 198                    | 0.6                  |
| 199 | 5-9% of mass 198                   | 7.0                  |
| 275 | 10-30% of mass 198                 | 26.3                 |
| 365 | >1% of mass 198                    | 3.0                  |
| 441 | Present but less than mass 443     | 14.3 (79.3)          |
| 442 | >40% of mass 198                   | 93.3                 |
| 443 | 17-23% of mass 442                 | 18.0 (19.3)          |



Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31605.D\8270\_Isotope.rsl\spectra.d  
Injection Date: 05-Oct-2018 05:37:30  
Spectrum: Tune Spec :Average 235-237( 5.48-5.49 ) Bgrd 229( 5.44)  
Base Peak: 198.00  
Minimum % Base Peak: 0  
Number of Points: 346

| m/z   | Y      | m/z    | Y     | m/z    | Y      | m/z    | Y     |
|-------|--------|--------|-------|--------|--------|--------|-------|
| 36.00 | 499    | 130.00 | 12846 | 218.00 | 7770   | 309.00 | 755   |
| 37.00 | 1288   | 131.00 | 2575  | 219.00 | 555    | 310.00 | 965   |
| 38.00 | 3299   | 132.00 | 1219  | 221.00 | 41920  | 311.00 | 227   |
| 39.00 | 23592  | 133.00 | 481   | 222.00 | 2725   | 312.00 | 305   |
| 41.00 | 659    | 134.00 | 4532  | 223.00 | 13817  | 313.00 | 614   |
| 45.00 | 592    | 135.00 | 13045 | 224.00 | 125824 | 314.00 | 3281  |
| 48.00 | 181    | 136.00 | 4962  | 225.00 | 30968  | 315.00 | 7224  |
| 49.00 | 1629   | 137.00 | 6657  | 226.00 | 3239   | 316.00 | 4418  |
| 50.00 | 79104  | 138.00 | 1256  | 227.00 | 51656  | 317.00 | 746   |
| 51.00 | 328960 | 139.00 | 809   | 228.00 | 7026   | 318.00 | 59    |
| 52.00 | 17416  | 140.00 | 1796  | 229.00 | 10789  | 319.00 | 191   |
| 53.00 | 547    | 141.00 | 17616 | 230.00 | 1528   | 320.00 | 261   |
| 54.00 | 169    | 142.00 | 6175  | 231.00 | 5036   | 321.00 | 1836  |
| 55.00 | 604    | 143.00 | 4052  | 232.00 | 1303   | 322.00 | 1076  |
| 56.00 | 8858   | 144.00 | 1068  | 233.00 | 1002   | 323.00 | 21976 |
| 57.00 | 22288  | 145.00 | 979   | 234.00 | 3174   | 324.00 | 3542  |
| 58.00 | 1343   | 146.00 | 3347  | 235.00 | 3765   | 325.00 | 455   |
| 59.00 | 503    | 147.00 | 9753  | 236.00 | 2319   | 326.00 | 439   |
| 61.00 | 3545   | 148.00 | 20320 | 237.00 | 4238   | 327.00 | 3811  |
| 62.00 | 4372   | 149.00 | 4674  | 238.00 | 701    | 328.00 | 2039  |
| 63.00 | 12942  | 150.00 | 1046  | 239.00 | 2015   | 329.00 | 415   |
| 64.00 | 1717   | 151.00 | 2795  | 240.00 | 1571   | 331.00 | 52    |
| 65.00 | 6112   | 152.00 | 1514  | 241.00 | 2939   | 332.00 | 1712  |
| 66.00 | 368    | 153.00 | 6221  | 242.00 | 6648   | 333.00 | 2064  |
| 67.00 | 304    | 154.00 | 4734  | 243.00 | 6968   | 334.00 | 13648 |
| 68.00 | 5195   | 155.00 | 10480 | 244.00 | 102104 | 335.00 | 3728  |
| 69.00 | 335680 | 156.00 | 17240 | 245.00 | 13092  | 336.00 | 460   |
| 70.00 | 1623   | 157.00 | 3685  | 246.00 | 18512  | 339.00 | 457   |
| 71.00 | 262    | 158.00 | 3561  | 247.00 | 4507   | 340.00 | 282   |
| 72.00 | 368    | 159.00 | 2945  | 248.00 | 1188   | 341.00 | 2992  |
| 73.00 | 1917   | 160.00 | 6500  | 249.00 | 3888   | 342.00 | 684   |
| 74.00 | 31520  | 161.00 | 10205 | 250.00 | 807    | 343.00 | 58    |
| 75.00 | 52424  | 162.00 | 2961  | 251.00 | 821    | 346.00 | 4326  |

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31605.D\8270\_Isotope.rsl\spectra.d

Injection Date: 05-Oct-2018 05:37:30

Spectrum: Tune Spec :Average 235-237( 5.48-5.49 ) Bgrd 229( 5.44)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 346

| m/z    | Y      | m/z    | Y      | m/z    | Y      | m/z    | Y     |
|--------|--------|--------|--------|--------|--------|--------|-------|
| 76.00  | 17144  | 163.00 | 797    | 252.00 | 1020   | 347.00 | 874   |
| 77.00  | 384960 | 164.00 | 1314   | 253.00 | 2208   | 348.00 | 112   |
| 78.00  | 25672  | 165.00 | 6976   | 254.00 | 4012   | 350.00 | 205   |
| 79.00  | 20744  | 166.00 | 6201   | 255.00 | 538944 | 351.00 | 321   |
| 80.00  | 17720  | 167.00 | 40184  | 256.00 | 77488  | 352.00 | 6416  |
| 81.00  | 27264  | 168.00 | 20416  | 257.00 | 6294   | 353.00 | 4606  |
| 82.00  | 6937   | 169.00 | 3350   | 258.00 | 28456  | 354.00 | 7613  |
| 83.00  | 6189   | 170.00 | 1238   | 259.00 | 5175   | 355.00 | 1087  |
| 84.00  | 540    | 171.00 | 1455   | 260.00 | 865    | 357.00 | 157   |
| 85.00  | 4288   | 172.00 | 3411   | 261.00 | 934    | 358.00 | 114   |
| 86.00  | 6392   | 173.00 | 4987   | 263.00 | 438    | 359.00 | 525   |
| 87.00  | 3349   | 174.00 | 8798   | 264.00 | 743    | 360.00 | 128   |
| 88.00  | 1544   | 175.00 | 16936  | 265.00 | 11424  | 361.00 | 118   |
| 89.00  | 627    | 176.00 | 5038   | 266.00 | 1644   | 365.00 | 28592 |
| 90.00  | 244    | 177.00 | 6596   | 267.00 | 155    | 366.00 | 4012  |
| 91.00  | 5626   | 178.00 | 2450   | 268.00 | 239    | 367.00 | 280   |
| 92.00  | 6029   | 179.00 | 31664  | 269.00 | 154    | 370.00 | 600   |
| 93.00  | 37032  | 180.00 | 21280  | 270.00 | 389    | 371.00 | 1748  |
| 94.00  | 2595   | 181.00 | 11150  | 271.00 | 1409   | 372.00 | 11548 |
| 95.00  | 359    | 182.00 | 1606   | 272.00 | 1378   | 373.00 | 2979  |
| 96.00  | 2467   | 183.00 | 987    | 273.00 | 15669  | 374.00 | 232   |
| 97.00  | 343    | 184.00 | 2772   | 274.00 | 43488  | 377.00 | 338   |
| 98.00  | 27808  | 185.00 | 14857  | 275.00 | 249536 | 378.00 | 52    |
| 99.00  | 25224  | 186.00 | 120664 | 276.00 | 32432  | 383.00 | 3289  |
| 100.00 | 1852   | 187.00 | 33160  | 277.00 | 19320  | 384.00 | 1041  |
| 101.00 | 14788  | 188.00 | 3394   | 278.00 | 3174   | 385.00 | 341   |
| 102.00 | 674    | 189.00 | 6582   | 279.00 | 550    | 390.00 | 1668  |
| 103.00 | 4394   | 190.00 | 1810   | 280.00 | 162    | 391.00 | 925   |
| 104.00 | 9260   | 191.00 | 3163   | 281.00 | 195    | 392.00 | 972   |
| 105.00 | 8573   | 192.00 | 10599  | 282.00 | 324    | 393.00 | 114   |
| 106.00 | 2542   | 193.00 | 11373  | 283.00 | 2099   | 401.00 | 807   |
| 107.00 | 118288 | 194.00 | 2543   | 284.00 | 1714   | 402.00 | 4626  |
| 108.00 | 18072  | 195.00 | 1083   | 285.00 | 4050   | 403.00 | 7308  |
| 109.00 | 2922   | 196.00 | 26112  | 286.00 | 814    | 404.00 | 2504  |

Report Date: 05-Oct-2018 10:05:26

Chrom Revision: 2.3 19-Jul-2018 15:14:50

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31605.D\8270\_Isotope.rsl\spectra.d

Injection Date: 05-Oct-2018 05:37:30

Spectrum: Tune Spec :Average 235-237( 5.48-5.49 ) Bgrd 229( 5.44)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 346

| m/z    | Y      | m/z    | Y      | m/z    | Y     | m/z    | Y      |
|--------|--------|--------|--------|--------|-------|--------|--------|
| 110.00 | 220544 | 197.00 | 5816   | 287.00 | 147   | 405.00 | 418    |
| 111.00 | 32440  | 198.00 | 947520 | 288.00 | 358   | 410.00 | 320    |
| 112.00 | 3577   | 199.00 | 66000  | 289.00 | 773   | 415.00 | 341    |
| 113.00 | 1153   | 200.00 | 4244   | 290.00 | 713   | 421.00 | 6351   |
| 114.00 | 381    | 201.00 | 4555   | 291.00 | 275   | 422.00 | 6299   |
| 115.00 | 336    | 203.00 | 5757   | 292.00 | 950   | 423.00 | 44664  |
| 116.00 | 5945   | 204.00 | 31240  | 293.00 | 4734  | 424.00 | 9156   |
| 117.00 | 78944  | 205.00 | 54800  | 294.00 | 1196  | 425.00 | 1103   |
| 118.00 | 5849   | 206.00 | 235456 | 295.00 | 1491  | 436.00 | 106    |
| 119.00 | 789    | 207.00 | 30344  | 296.00 | 65160 | 437.00 | 73     |
| 120.00 | 1754   | 208.00 | 7551   | 297.00 | 9093  | 438.00 | 183    |
| 121.00 | 449    | 209.00 | 2442   | 298.00 | 777   | 439.00 | 339    |
| 122.00 | 7050   | 210.00 | 3250   | 300.00 | 187   | 440.00 | 328    |
| 123.00 | 10915  | 211.00 | 9138   | 301.00 | 693   | 441.00 | 135296 |
| 124.00 | 4795   | 212.00 | 406    | 302.00 | 1373  | 442.00 | 883840 |
| 125.00 | 4178   | 213.00 | 575    | 303.00 | 8182  | 443.00 | 170688 |
| 126.00 | 1820   | 214.00 | 56     | 304.00 | 1828  | 444.00 | 15125  |
| 127.00 | 434112 | 215.00 | 2689   | 305.00 | 186   | 445.00 | 715    |
| 128.00 | 32576  | 216.00 | 4639   | 307.00 | 54    |        |        |
| 129.00 | 160704 | 217.00 | 60184  | 308.00 | 860   |        |        |

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-556636/1-A  
Matrix: Water Lab File ID: C31554.D  
Analysis Method: 8270D SIM ID Date Collected: \_\_\_\_\_  
Extract. Method: 3510C Date Extracted: 10/01/2018 23:59  
Sample wt/vol: 250 (mL) Date Analyzed: 10/02/2018 15:14  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 556593 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 0.016  | U | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 30   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31554.D  
Lims ID: MB 460-556636/1-A  
Client ID:  
Sample Type: MB  
Inject. Date: 02-Oct-2018 15:14:30 ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 5.0 ul Dil. Factor: 1.0000  
Sample Info: 460-0079574-026  
Operator ID: Instrument ID: CBNAMS13  
Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
Limit Group: MSS 8270 Isotope Dilution IS  
Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
Integrator: RTE ID Type: RT Order ID  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
Process Host: XAWRK014

First Level Reviewer: zhaoc

Date: 02-Oct-2018 15:41:46

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.945        | 2.952            | -0.007           | 0  | 989352   | 4.00             | 1.21               |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 97 | 414887   | 0.2000           | 0.2000             |       |

## Reagents:

SM\_iso\_d4istd\_00003 Amount Added: 20.00 Units: uL Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31554.D

Injection Date: 02-Oct-2018 15:14:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: MB 460-556636/1-A

Worklist Smp#: 26

Client ID:

Injection Vol: 5.0 ul

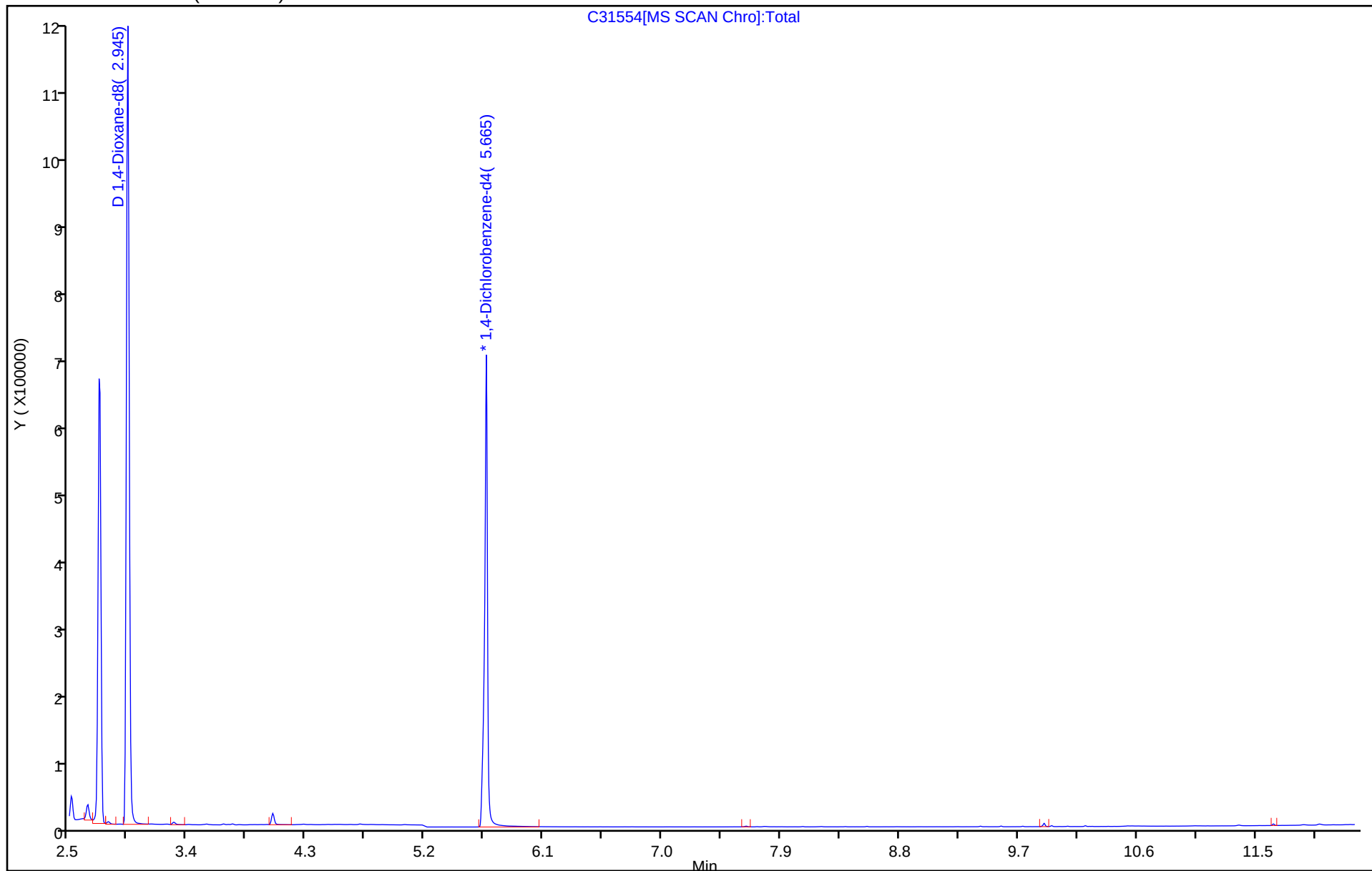
Dil. Factor: 1.0000

ALS Bottle#: 26

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31554.D

Injection Date: 02-Oct-2018 15:14:30

Instrument ID: CBNAMS13

Lims ID: MB 460-556636/1-A

Client ID:

Operator ID:

ALS Bottle#:

26

Worklist Smp#:

26

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

Limit Group:

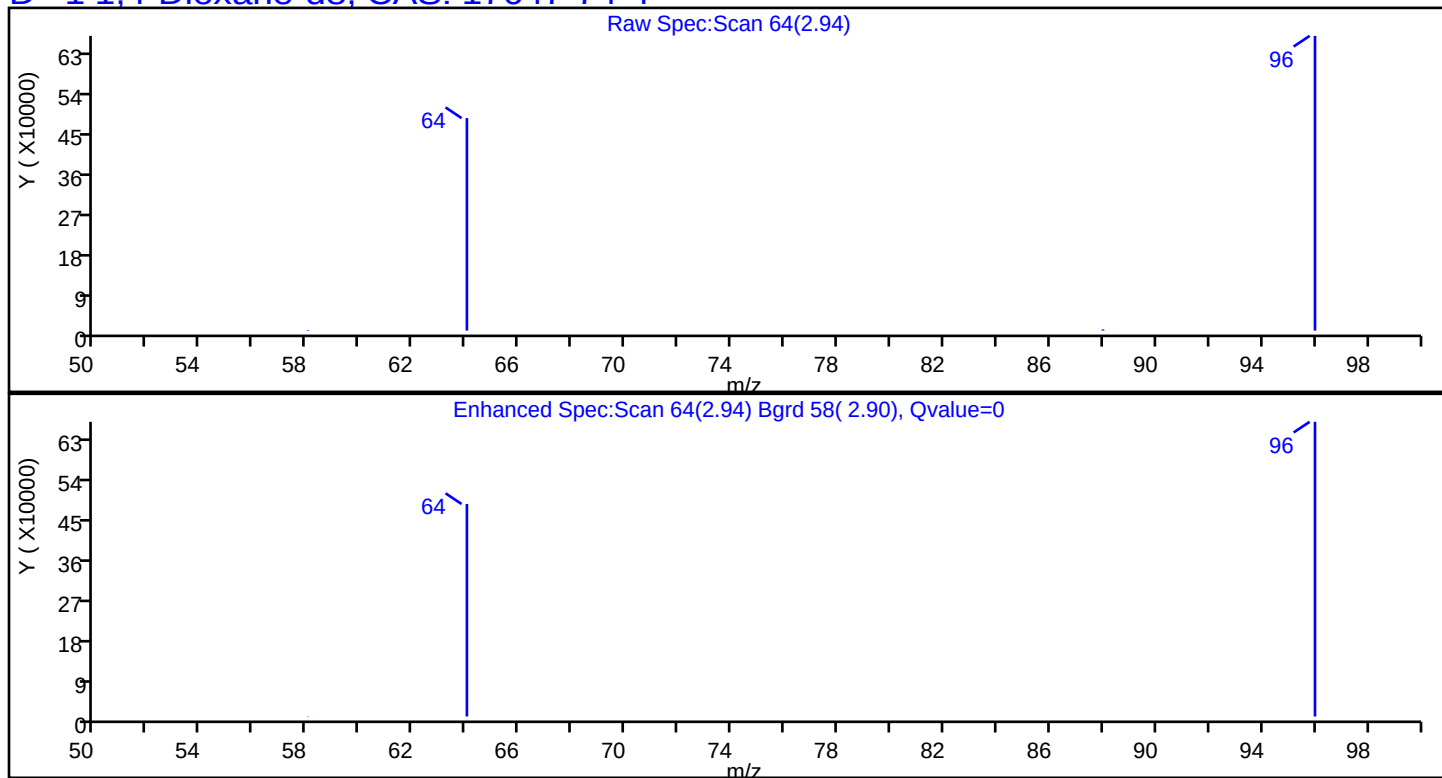
MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)

Detector

MS SCAN

## D 1 1,4-Dioxane-d8, CAS: 17647-74-4



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31554.D

Injection Date: 02-Oct-2018 15:14:30

Instrument ID: CBNAMS13

Lims ID: MB 460-556636/1-A

Client ID:

Operator ID:

ALS Bottle#:

26

Worklist Smp#: 26

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

Limit Group:

MSS 8270 Isotope Dilution IS

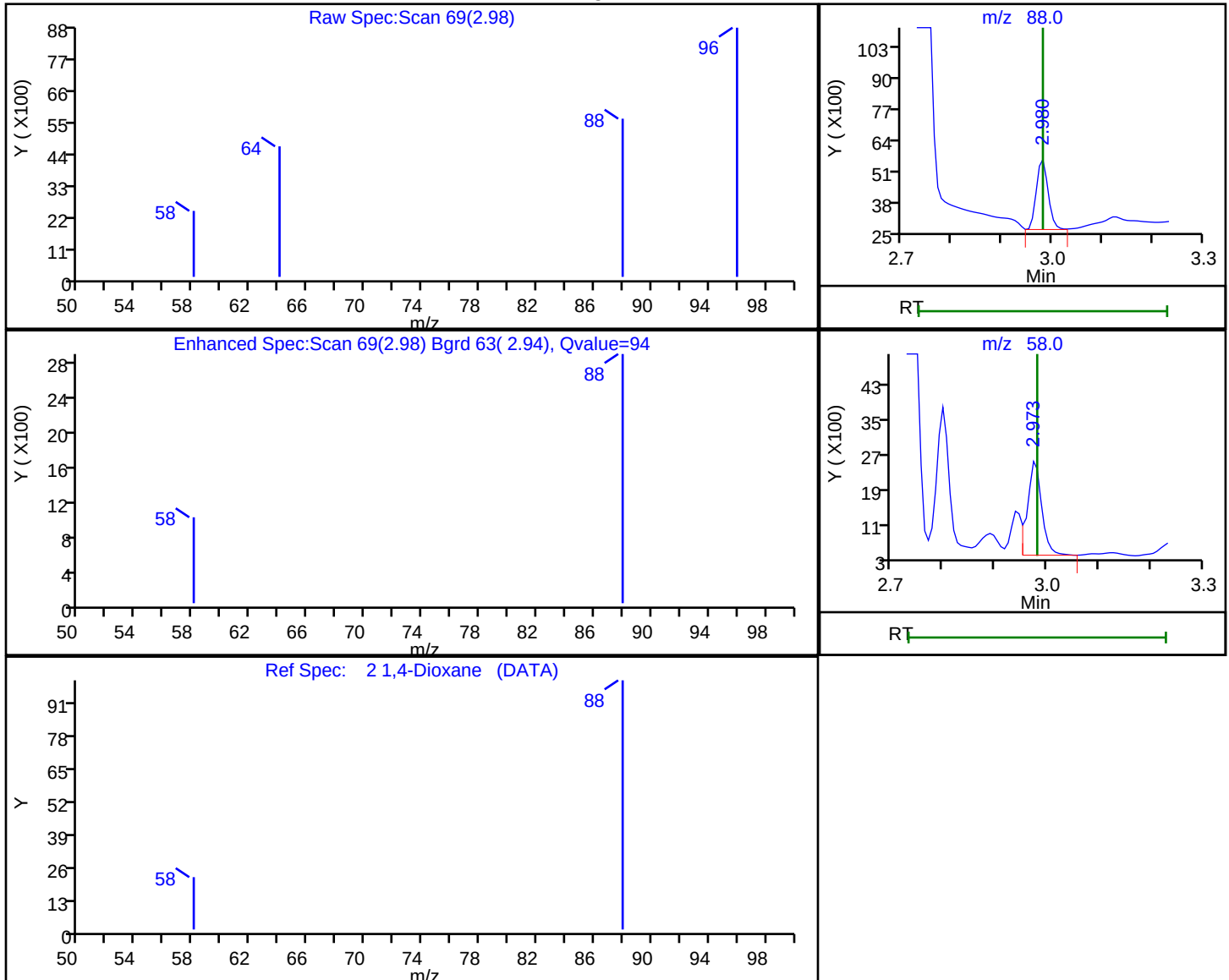
Column: Rtxi-5Sil MS ( 0.25 mm)

Detector

MS SCAN

## 2 1,4-Dioxane, CAS: 123-91-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.98 | 88.00 | 4839     | 0.015111 |
| 2.97 | 58.00 | 4167     |          |

Reviewer: khlungprakhons, 03-Oct-2018 16:24:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-557439/1-A  
Matrix: Water Lab File ID: C31607.D  
Analysis Method: 8270D SIM ID Date Collected: \_\_\_\_\_  
Extract. Method: 3510C Date Extracted: 10/04/2018 16:08  
Sample wt/vol: 250 (mL) Date Analyzed: 10/05/2018 06:25  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 557609 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 0.016  | U | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 47   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31607.D  
 Lims ID: MB 460-557439/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 05-Oct-2018 06:25:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079770-003  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 08-Oct-2018 08:11:50 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK020

First Level Reviewer: khlungprakhons

Date: 08-Oct-2018 08:11:50

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|------------------|--------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|------------------|--------------------|-------|

|     |                        |     |       |       |       |    |         |        |        |
|-----|------------------------|-----|-------|-------|-------|----|---------|--------|--------|
| D 1 | 1,4-Dioxane-d8         | 96  | 2.945 | 2.929 | 0.014 | 0  | 1296757 | 4.00   | 1.89   |
| * 4 | 1,4-Dichlorobenzene-d4 | 152 | 5.665 | 5.665 | 0.000 | 99 | 347921  | 0.2000 | 0.2000 |

**Reagents:**

SM\_iso\_d4istd\_00003                      Amount Added: 20.00                      Units: uL                      Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31607.D

Injection Date: 05-Oct-2018 06:25:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: MB 460-557439/1-A

Worklist Smp#: 3

Client ID:

Injection Vol: 5.0 ul

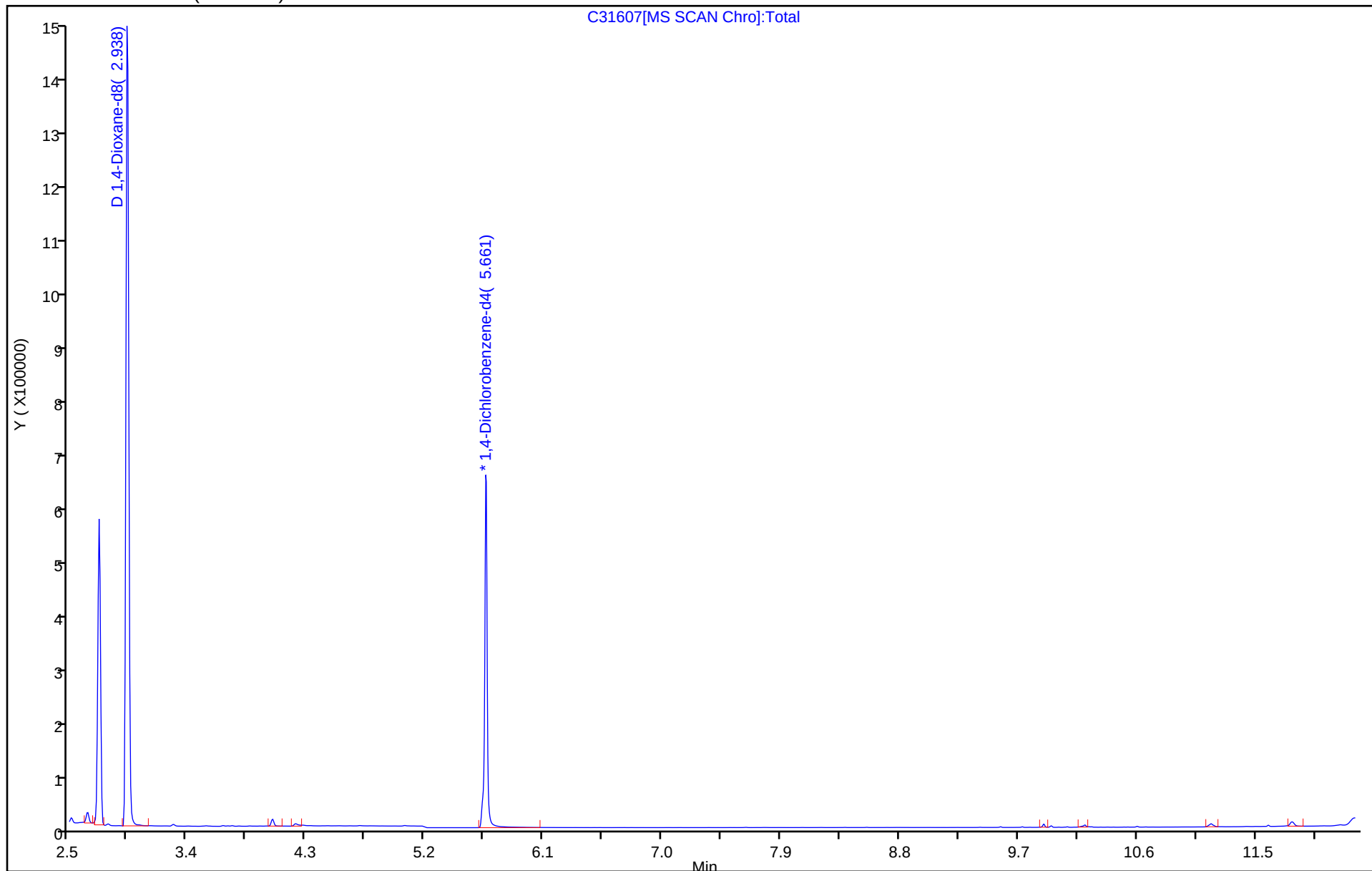
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181005-79770.b\\C31607.D

Injection Date: 05-Oct-2018 06:25:30

Instrument ID: CBNAMS13

Lims ID: MB 460-557439/1-A

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#:

3

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

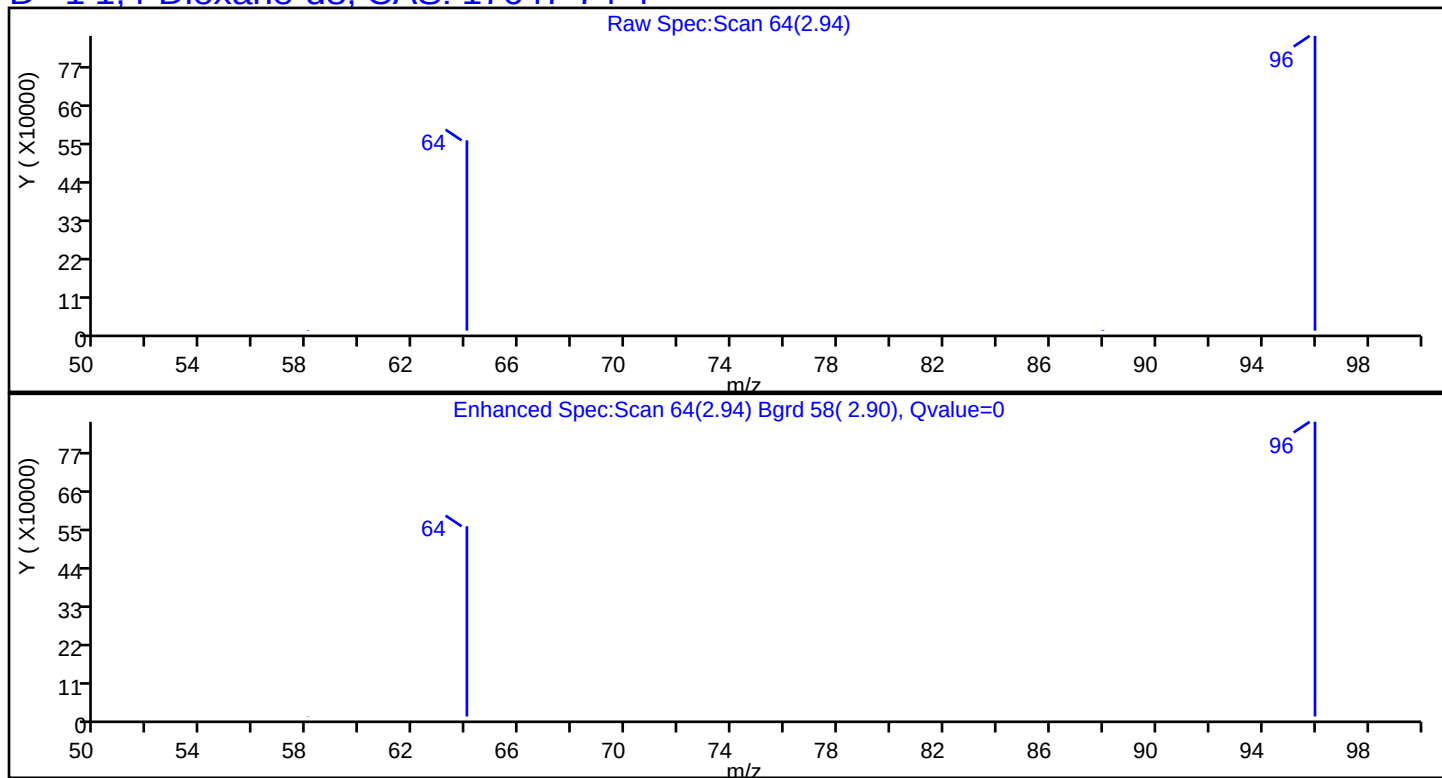
Limit Group:

MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**D 1 1,4-Dioxane-d8, CAS: 17647-74-4**

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181005-79770.b\\C31607.D

Injection Date: 05-Oct-2018 06:25:30

Instrument ID: CBNAMS13

Lims ID: MB 460-557439/1-A

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 5.0 ul

Dil. Factor:

1.0000

Method: 8270\_Isotope

Limit Group:

MSS 8270 Isotope Dilution IS

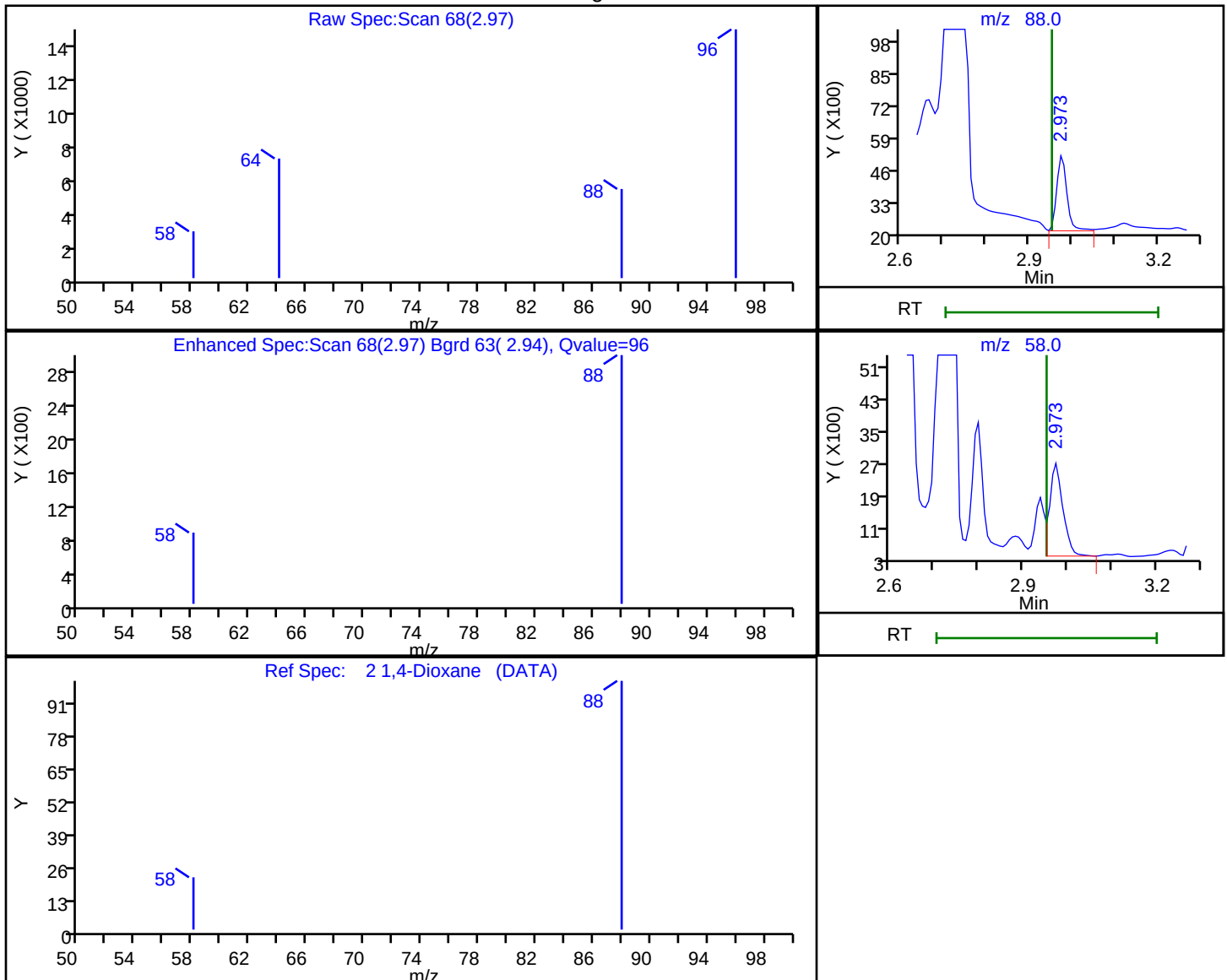
Column: Rtxi-5Sil MS ( 0.25 mm)

Detector

MS SCAN

## 2 1,4-Dioxane, CAS: 123-91-1

## Processing Results



| RT   | Mass  | Response | Amount   |
|------|-------|----------|----------|
| 2.97 | 88.00 | 5074     | 0.012088 |
| 2.97 | 58.00 | 4806     |          |

Reviewer: khlungprakhons, 08-Oct-2018 08:11:48

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-556636/2-A  
Matrix: Water Lab File ID: C31555.D  
Analysis Method: 8270D SIM ID Date Collected: \_\_\_\_\_  
Extract. Method: 3510C Date Extracted: 10/01/2018 23:59  
Sample wt/vol: 250 (mL) Date Analyzed: 10/02/2018 15:31  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 556593 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 1.74   |   | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 35   |   | 10-200 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31555.D  
 Lims ID: LCS 460-556636/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 02-Oct-2018 15:31:30 ALS Bottle#: 27 Worklist Smp#: 27  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079574-027  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK014

First Level Reviewer: zhaoc

Date: 02-Oct-2018 15:43:04

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.945        | 2.952            | -0.007           | 0  | 1065580  | 4.00             | 1.40               |       |
| 2 1,4-Dioxane              | 88  | 2.980        | 2.980            | 0.000            | 82 | 75109    | 0.2000           | 0.2178             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.664        | 5.665            | -0.001           | 97 | 385635   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_iso\_d4istd\_00003      Amount Added: 20.00      Units: uL      Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31555.D

Injection Date: 02-Oct-2018 15:31:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: LCS 460-556636/2-A

Worklist Smp#: 27

Client ID:

Injection Vol: 5.0 ul

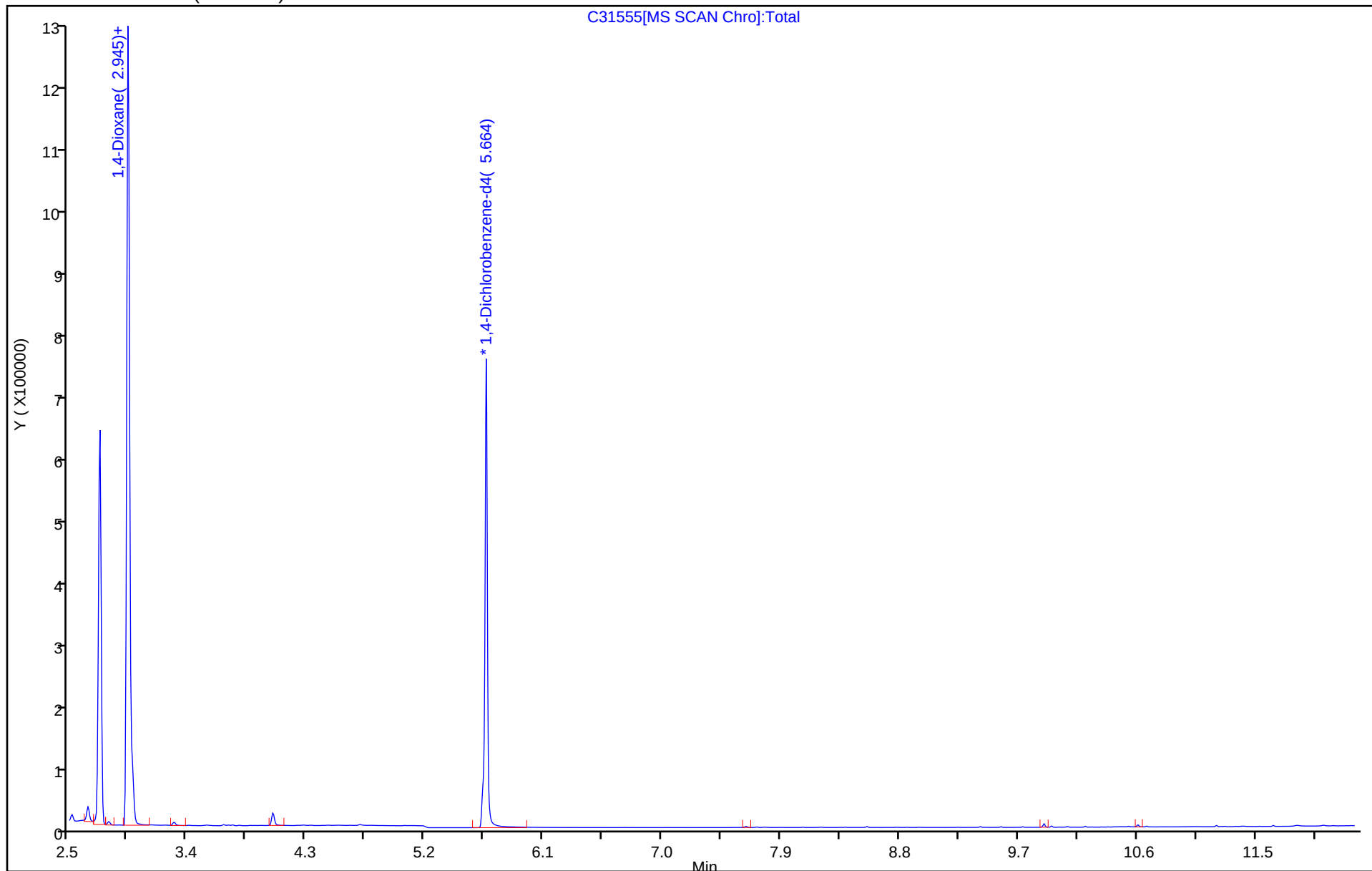
Dil. Factor: 1.0000

ALS Bottle#: 27

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)





FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-557439/2-A  
 Matrix: Water Lab File ID: C31608.D  
 Analysis Method: 8270D SIM ID Date Collected: \_\_\_\_\_  
 Extract. Method: 3510C Date Extracted: 10/04/2018 16:08  
 Sample wt/vol: 250 (mL) Date Analyzed: 10/05/2018 06:42  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 5 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 557609 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 1.44   |   | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 55   |   | 10-200 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31608.D  
 Lims ID: LCS 460-557439/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 05-Oct-2018 06:42:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079770-004  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 05-Oct-2018 10:05:26 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK019

First Level Reviewer: zhaoc

Date: 05-Oct-2018 08:52:16

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.938        | 2.929            | 0.007            | 0  | 1550905  | 4.00             | 2.21               |       |
| 2 1,4-Dioxane              | 88  | 2.973        | 2.952            | 0.021            | 83 | 90593    | 0.2000           | 0.1805             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 98 | 354262   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_iso\_d4istd\_00003

Amount Added: 20.00

Units: uL

Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31608.D

Injection Date: 05-Oct-2018 06:42:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: LCS 460-557439/2-A

Worklist Smp#: 4

Client ID:

Injection Vol: 5.0 ul

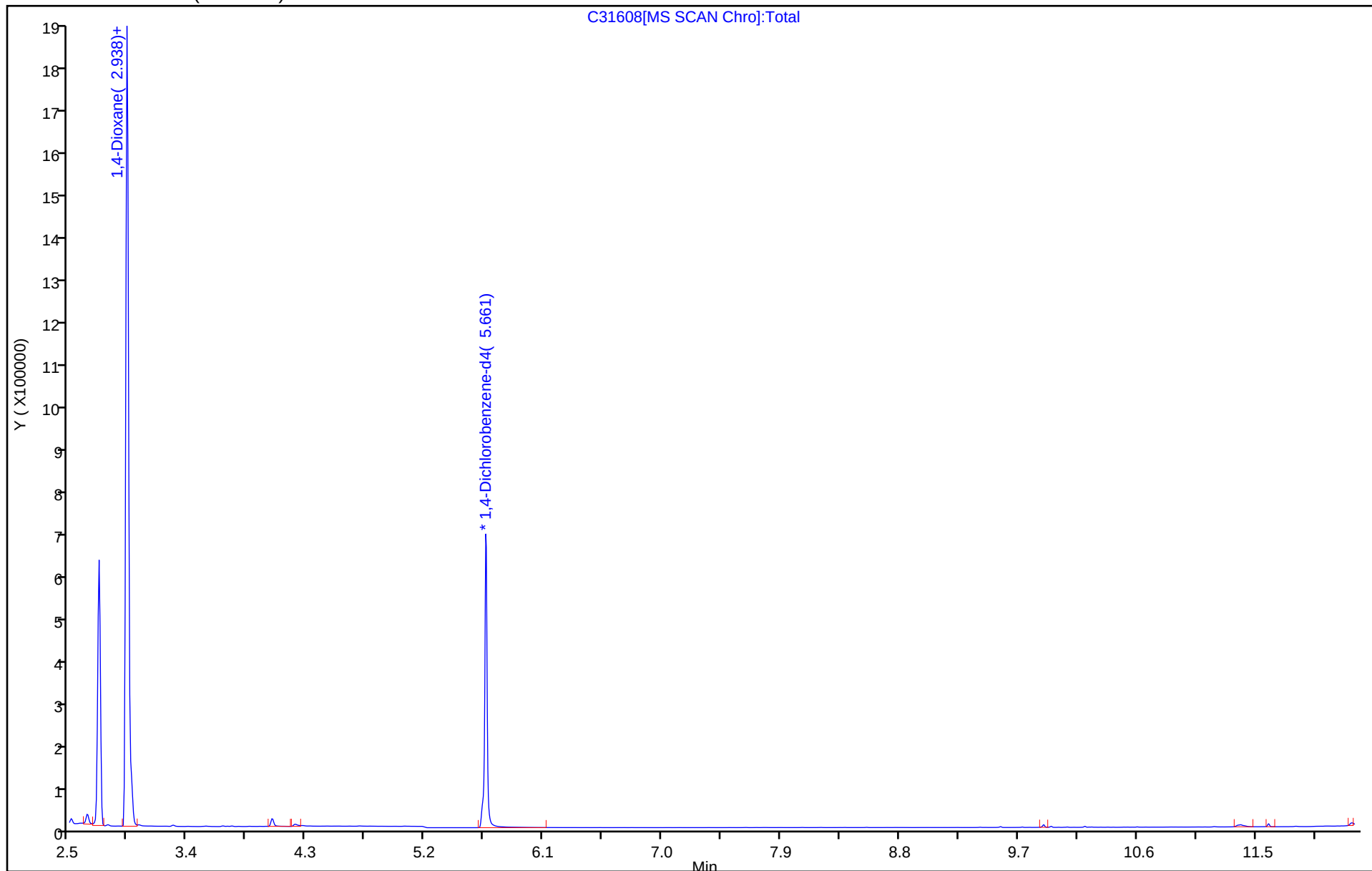
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: 460-165755-A-1-A MS  
Matrix: Water Lab File ID: C31556.D  
Analysis Method: 8270D SIM ID Date Collected: 09/27/2018 12:18  
Extract. Method: 3510C Date Extracted: 10/01/2018 23:59  
Sample wt/vol: 250 (mL) Date Analyzed: 10/02/2018 15:49  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 556593 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 3.75   |   | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 35   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31556.D  
 Lims ID: 460-165755-A-1-A MS  
 Client ID: MW-2  
 Sample Type: MS  
 Inject. Date: 02-Oct-2018 15:49:30 ALS Bottle#: 28 Worklist Smp#: 28  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079574-028  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK014

First Level Reviewer: zhaoc

Date: 02-Oct-2018 16:02:12

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.945        | 2.952            | -0.007           | 0  | 1104296  | 4.00             | 1.40               |       |
| 2 1,4-Dioxane              | 88  | 2.973        | 2.980            | -0.007           | 79 | 167516   | 0.2000           | 0.4686             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 97 | 399237   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_iso\_d4istd\_00003      Amount Added: 20.00      Units: uL      Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31556.D

Injection Date: 02-Oct-2018 15:49:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165755-A-1-A MS

Worklist Smp#: 28

Client ID: MW-2

Injection Vol: 5.0 ul

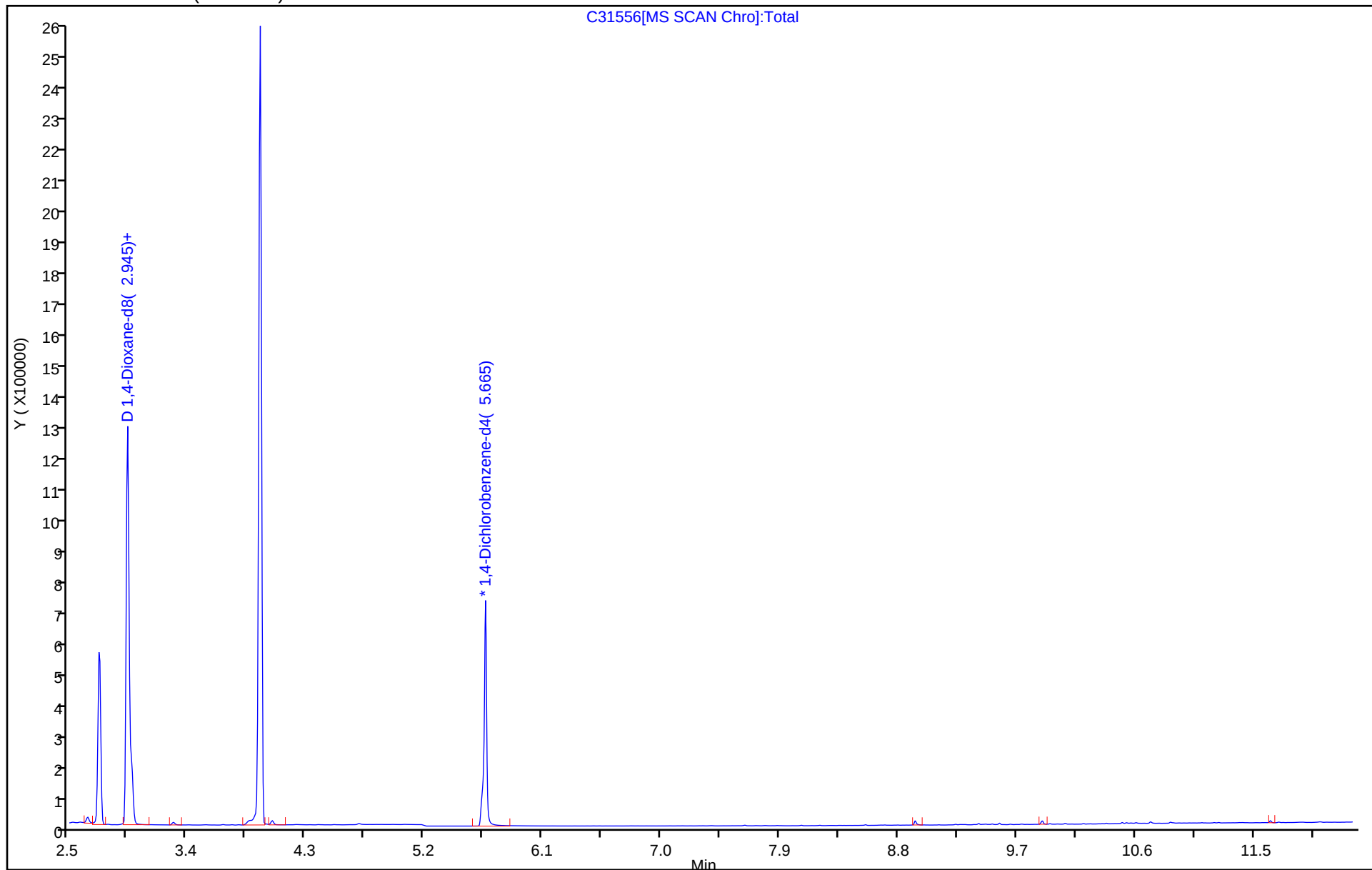
Dil. Factor: 1.0000

ALS Bottle#: 28

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: 460-165951-E-6-A MS  
 Matrix: Water Lab File ID: C31610.D  
 Analysis Method: 8270D SIM ID Date Collected: 10/01/2018 11:30  
 Extract. Method: 3510C Date Extracted: 10/04/2018 16:08  
 Sample wt/vol: 250 (mL) Date Analyzed: 10/05/2018 07:17  
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
 Injection Volume: 5 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 557609 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 1.54   |   | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 48   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31610.D  
 Lims ID: 460-165951-E-6-A MS  
 Client ID: MW-2  
 Sample Type: MS  
 Inject. Date: 05-Oct-2018 07:17:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079770-006  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 05-Oct-2018 10:05:26 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK019

First Level Reviewer: zhaoc

Date: 05-Oct-2018 08:52:58

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.938        | 2.929            | 0.007            | 0  | 1394709  | 4.00             | 1.93               |       |
| 2 1,4-Dioxane              | 88  | 2.966        | 2.952            | 0.014            | 80 | 87149    | 0.2000           | 0.1930             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.661        | 5.665            | -0.004           | 98 | 365960   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_iso\_d4istd\_00003      Amount Added: 20.00      Units: uL      Run Reagent



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181005-79770.b\\C31610.D

Injection Date: 05-Oct-2018 07:17:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165951-E-6-A MS

Worklist Smp#: 6

Client ID: MW-2

Injection Vol: 5.0 ul

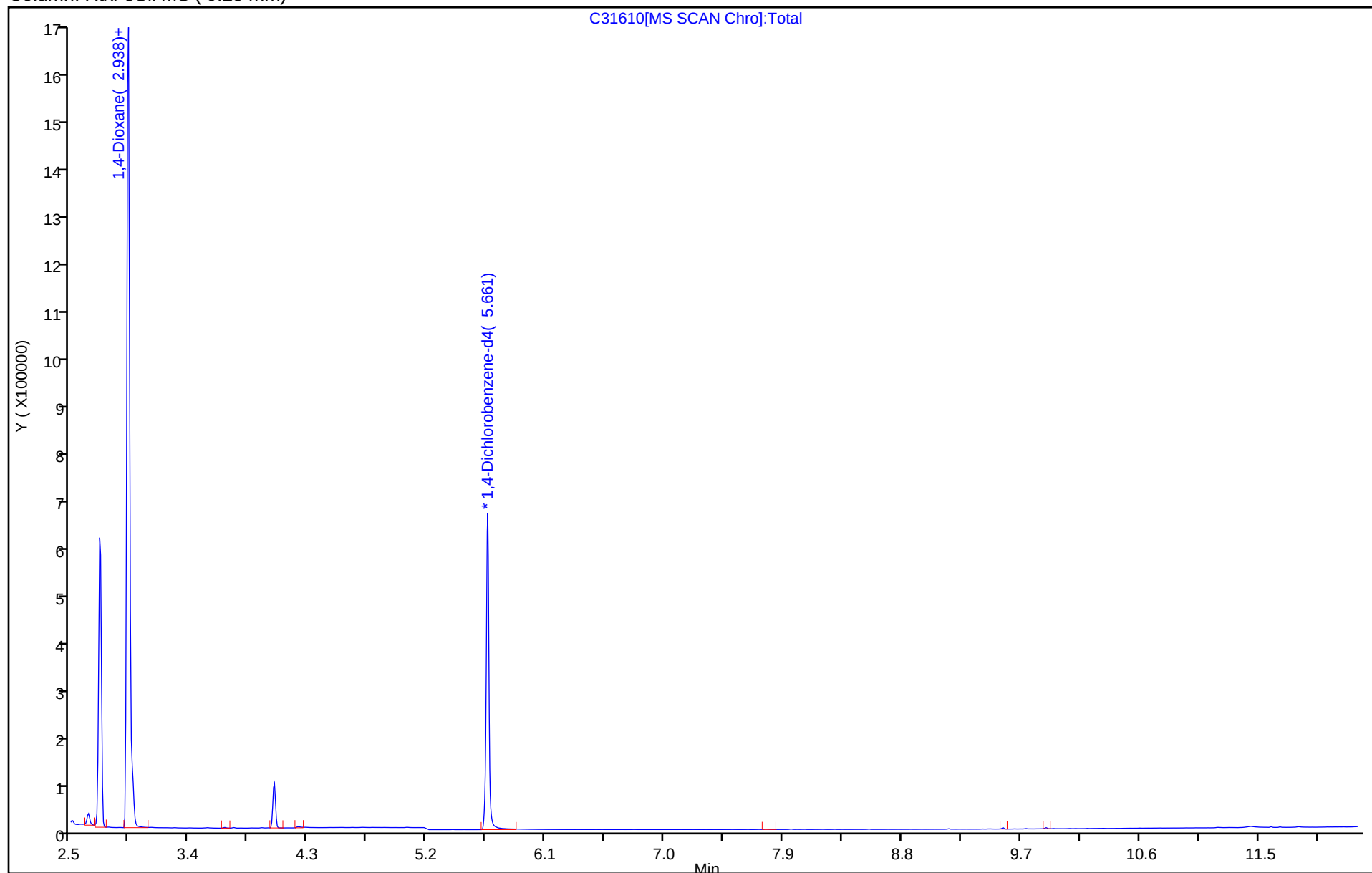
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: 460-165755-A-1-B MSD  
Matrix: Water Lab File ID: C31557.D  
Analysis Method: 8270D SIM ID Date Collected: 09/27/2018 12:18  
Extract. Method: 3510C Date Extracted: 10/01/2018 23:59  
Sample wt/vol: 245 (mL) Date Analyzed: 10/02/2018 16:06  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 556593 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 3.72   |   | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 34   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\C31557.D  
 Lims ID: 460-165755-A-1-B MSD  
 Client ID: MW-2  
 Sample Type: MSD  
 Inject. Date: 02-Oct-2018 16:06:30 ALS Bottle#: 29 Worklist Smp#: 29  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079574-029  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181001-79574.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 03-Oct-2018 06:28:33 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK014

First Level Reviewer: zhaoc

Date: 02-Oct-2018 16:22:20

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.945        | 2.952            | -0.007           | 0  | 1064643  | 4.00             | 1.35               |       |
| 2 1,4-Dioxane              | 88  | 2.980        | 2.980            | 0.000            | 84 | 157247   | 0.2000           | 0.4563             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 97 | 398836   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_iso\_d4istd\_00003      Amount Added: 20.00      Units: uL      Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS13\\20181001-79574.b\\C31557.D

Injection Date: 02-Oct-2018 16:06:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165755-A-1-B MSD

Worklist Smp#: 29

Client ID: MW-2

Injection Vol: 5.0 ul

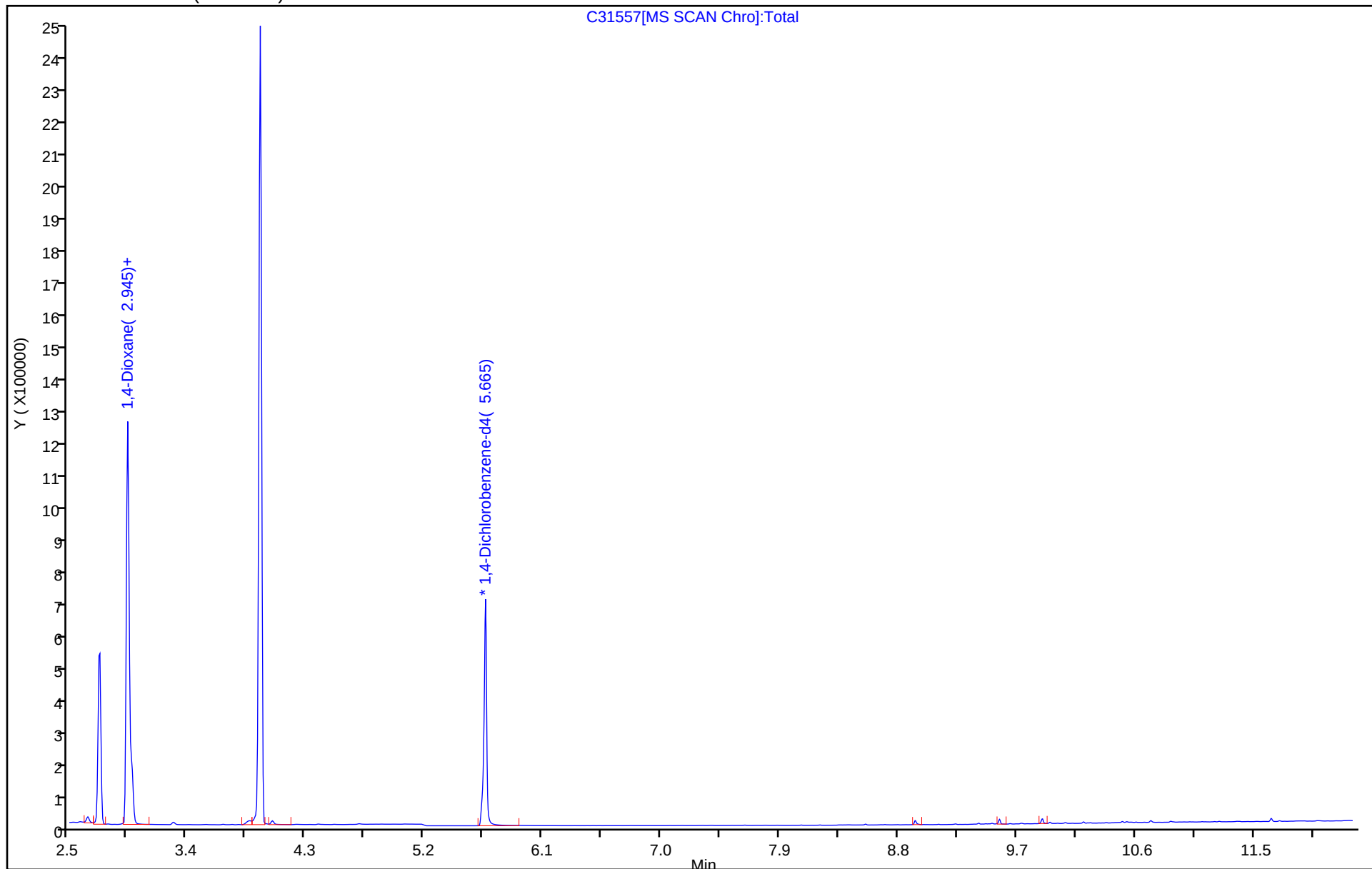
Dil. Factor: 1.0000

ALS Bottle#: 29

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: 460-165951-E-6-B MSD  
Matrix: Water Lab File ID: C31611.D  
Analysis Method: 8270D SIM ID Date Collected: 10/01/2018 11:30  
Extract. Method: 3510C Date Extracted: 10/04/2018 16:08  
Sample wt/vol: 250 (mL) Date Analyzed: 10/05/2018 07:34  
Con. Extract Vol.: 2 (mL) Dilution Factor: 1  
Injection Volume: 5 (uL) Level: (low/med) Low  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 557609 Units: ug/L

| CAS NO.  | COMPOUND NAME | RESULT | Q | RL   | MDL   |
|----------|---------------|--------|---|------|-------|
| 123-91-1 | 1,4-Dioxane   | 1.58   |   | 0.20 | 0.016 |

| CAS NO.    | ISOTOPE DILUTION | %REC | Q | LIMITS |
|------------|------------------|------|---|--------|
| 17647-74-4 | 1,4-Dioxane-d8   | 50   |   | 10-150 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31611.D  
 Lims ID: 460-165951-E-6-B MSD  
 Client ID: MW-2  
 Sample Type: MSD  
 Inject. Date: 05-Oct-2018 07:34:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 5.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0079770-007  
 Operator ID: Instrument ID: CBNAMS13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\8270\_Isotope.m  
 Limit Group: MSS 8270 Isotope Dilution IS  
 Last Update: 05-Oct-2018 10:05:26 Calib Date: 11-May-2018 17:20:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS13\20180511-71845.b\C28993.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK019

First Level Reviewer: zhaoc

Date: 05-Oct-2018 08:53:17

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| D 1 1,4-Dioxane-d8         | 96  | 2.938        | 2.929            | 0.007            | 0  | 1405416  | 4.00             | 2.01               |       |
| 2 1,4-Dioxane              | 88  | 2.973        | 2.952            | 0.021            | 82 | 89981    | 0.2000           | 0.1978             |       |
| * 4 1,4-Dichlorobenzene-d4 | 152 | 5.665        | 5.665            | 0.000            | 98 | 353443   | 0.2000           | 0.2000             |       |

**Reagents:**

SM\_iso\_d4istd\_00003                      Amount Added: 20.00                      Units: uL                      Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS13\20181005-79770.b\C31611.D

Injection Date: 05-Oct-2018 07:34:30

Instrument ID: CBNAMS13

Operator ID:

Lims ID: 460-165951-E-6-B MSD

Worklist Smp#: 7

Client ID: MW-2

Injection Vol: 5.0 ul

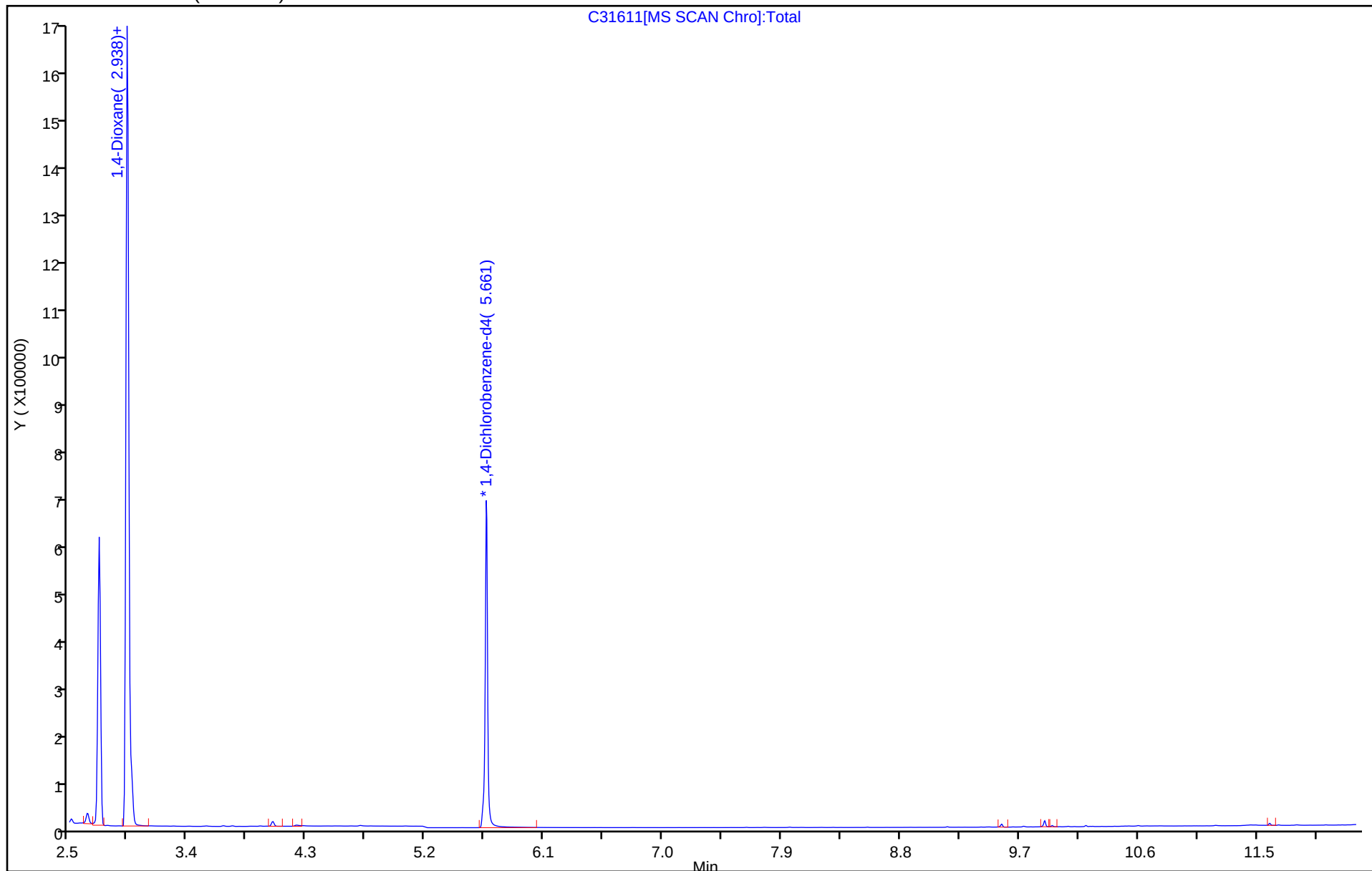
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8270\_Isotope

Limit Group: MSS 8270 Isotope Dilution IS

Column: Rtxi-5Sil MS ( 0.25 mm)



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS13 Start Date: 05/11/2018 12:33Analysis Batch Number: 518314 End Date: 05/11/2018 17:43

| LAB SAMPLE ID        | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID              |
|----------------------|------------------|------------------|--------------------|-------------|------------------------|
| DFTPP 460-518314/1   |                  | 05/11/2018 12:33 | 1                  | C28985.D    | Rtxi-5Sil MS 0.25 (mm) |
| ICIS 460-518314/2    |                  | 05/11/2018 12:48 | 1                  | C28986.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD8 460-518314/3 IC |                  | 05/11/2018 13:08 | 1                  | C28987.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD7 460-518314/4 IC |                  | 05/11/2018 13:27 | 1                  | C28988.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD6 460-518314/5 IC |                  | 05/11/2018 14:16 | 1                  | C28989.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD4 460-518314/6 IC |                  | 05/11/2018 14:35 | 1                  | C28990.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD3 460-518314/7 IC |                  | 05/11/2018 15:44 | 1                  | C28991.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD2 460-518314/8 IC |                  | 05/11/2018 16:02 | 1                  | C28992.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD1 460-518314/9 IC |                  | 05/11/2018 17:20 | 1                  | C28993.D    | Rtxi-5Sil MS 0.25 (mm) |
| ICV 460-518314/10    |                  | 05/11/2018 17:43 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-165769-1

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS13Start Date: 10/02/2018 07:30Analysis Batch Number: 556593End Date: 10/02/2018 19:17

| LAB SAMPLE ID        | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID              |
|----------------------|------------------|------------------|--------------------|-------------|------------------------|
| DFTPP 460-556593/1   |                  | 10/02/2018 07:30 | 1                  | C31529.D    | Rtxi-5Sil MS 0.25 (mm) |
| CCVIS 460-556593/2   |                  | 10/02/2018 08:13 | 1                  | C31530.D    | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 08:35 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 08:52 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 09:10 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 09:27 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 09:44 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 10:02 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 10:19 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 10:37 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 10:54 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 11:11 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 11:29 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 11:46 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 12:03 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 12:21 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 12:38 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 12:55 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 13:13 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 13:30 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 13:47 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 14:05 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 14:22 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 14:39 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 14:57 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| MB 460-556636/1-A    |                  | 10/02/2018 15:14 | 1                  | C31554.D    | Rtxi-5Sil MS 0.25 (mm) |
| LCS 460-556636/2-A   |                  | 10/02/2018 15:31 | 1                  | C31555.D    | Rtxi-5Sil MS 0.25 (mm) |
| 460-165755-A-1-A MS  |                  | 10/02/2018 15:49 | 1                  | C31556.D    | Rtxi-5Sil MS 0.25 (mm) |
| 460-165755-A-1-B MSD |                  | 10/02/2018 16:06 | 1                  | C31557.D    | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 16:23 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 16:41 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 16:58 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 17:15 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/02/2018 17:33 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| 460-165769-1         |                  | 10/02/2018 17:50 | 1                  | C31563.D    | Rtxi-5Sil MS 0.25 (mm) |
| 460-165769-4         |                  | 10/02/2018 18:07 | 1                  | C31564.D    | Rtxi-5Sil MS 0.25 (mm) |
| 460-165769-5         |                  | 10/02/2018 18:25 | 1                  | C31565.D    | Rtxi-5Sil MS 0.25 (mm) |
| 460-165769-6         |                  | 10/02/2018 18:42 | 1                  | C31566.D    | Rtxi-5Sil MS 0.25 (mm) |
| 460-165769-7         |                  | 10/02/2018 18:59 | 1                  | C31567.D    | Rtxi-5Sil MS 0.25 (mm) |
| 460-165769-9         |                  | 10/02/2018 19:17 | 1                  | C31568.D    | Rtxi-5Sil MS 0.25 (mm) |

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS13 Start Date: 10/05/2018 05:37Analysis Batch Number: 557609 End Date: 10/05/2018 09:36

| LAB SAMPLE ID        | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID              |
|----------------------|------------------|------------------|--------------------|-------------|------------------------|
| DFTPP 460-557609/1   |                  | 10/05/2018 05:37 | 1                  | C31605.D    | Rtxi-5Sil MS 0.25 (mm) |
| CCVIS 460-557609/2   |                  | 10/05/2018 05:58 | 1                  | C31606.D    | Rtxi-5Sil MS 0.25 (mm) |
| MB 460-557439/1-A    |                  | 10/05/2018 06:25 | 1                  | C31607.D    | Rtxi-5Sil MS 0.25 (mm) |
| LCS 460-557439/2-A   |                  | 10/05/2018 06:42 | 1                  | C31608.D    | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/05/2018 06:59 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| 460-165951-E-6-A MS  |                  | 10/05/2018 07:17 | 1                  | C31610.D    | Rtxi-5Sil MS 0.25 (mm) |
| 460-165951-E-6-B MSD |                  | 10/05/2018 07:34 | 1                  | C31611.D    | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/05/2018 07:51 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/05/2018 08:09 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/05/2018 08:26 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/05/2018 08:43 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/05/2018 09:01 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                |                  | 10/05/2018 09:18 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| 460-165769-8         |                  | 10/05/2018 09:36 | 1                  | C31618.D    | Rtxi-5Sil MS 0.25 (mm) |

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 556636 Batch Start Date: 10/01/18 23:58 Batch Analyst: Yallabandi, Gopichand XBatch Method: 3510C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID     | Method Chain           | Basis | InitialAmount | FinalAmount | ReceivedpH | FirstAdjustpH | SecondAdjustpH | OP_1,4-DX_SP<br>00003 |
|-----------------------|----------------------|------------------------|-------|---------------|-------------|------------|---------------|----------------|-----------------------|
| MB 460-556636/1       |                      | 3510C, 8270D<br>SIM ID |       | 250 mL        | 2 mL        | 7 SU       | <2 SU         | >12 SU         |                       |
| LCS<br>460-556636/2   |                      | 3510C, 8270D<br>SIM ID |       | 250 mL        | 2 mL        | 7 SU       | <2 SU         | >12 SU         | 200 uL                |
| 460-165755-A-1<br>MS  |                      | 3510C, 8270D<br>SIM ID | T     | 250 mL        | 2 mL        | 8 SU       | <2 SU         | >12 SU         | 200 uL                |
| 460-165755-A-1<br>MSD |                      | 3510C, 8270D<br>SIM ID | T     | 245 mL        | 2 mL        | 8 SU       | <2 SU         | >12 SU         | 200 uL                |
| 460-165769-F-1        | FSMW-14A<br>09262018 | 3510C, 8270D<br>SIM ID | T     | 245 mL        | 2 mL        | 8 SU       | <2 SU         | >12 SU         |                       |
| 460-165769-G-4        | EB1 092618           | 3510C, 8270D<br>SIM ID | T     | 245 mL        | 2 mL        | 8 SU       | <2 SU         | >12 SU         |                       |
| 460-165769-E-5        | FB1 09262018         | 3510C, 8270D<br>SIM ID | T     | 245 mL        | 2 mL        | 8 SU       | <2 SU         | >12 SU         |                       |
| 460-165769-F-6        | FSMW-8A 09272018     | 3510C, 8270D<br>SIM ID | T     | 245 mL        | 2 mL        | 8 SU       | <2 SU         | >12 SU         |                       |
| 460-165769-F-7        | FSMW-1A 09272018     | 3510C, 8270D<br>SIM ID | T     | 245 mL        | 2 mL        | 5 SU       | <2 SU         | >12 SU         |                       |
| 460-165769-F-9        | FB2 09272018         | 3510C, 8270D<br>SIM ID | T     | 245 mL        | 2 mL        | 5 SU       | <2 SU         | >12 SU         |                       |

| Lab Sample ID         | Client Sample ID     | Method Chain           | Basis | OP_14-DX surr<br>00004 |  |  |  |  |  |
|-----------------------|----------------------|------------------------|-------|------------------------|--|--|--|--|--|
| MB 460-556636/1       |                      | 3510C, 8270D<br>SIM ID |       | 20 uL                  |  |  |  |  |  |
| LCS<br>460-556636/2   |                      | 3510C, 8270D<br>SIM ID |       | 20 uL                  |  |  |  |  |  |
| 460-165755-A-1<br>MS  |                      | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |
| 460-165755-A-1<br>MSD |                      | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |
| 460-165769-F-1        | FSMW-14A<br>09262018 | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |
| 460-165769-G-4        | EB1 092618           | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |
| 460-165769-E-5        | FB1 09262018         | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |
| 460-165769-F-6        | FSMW-8A 09272018     | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |
| 460-165769-F-7        | FSMW-1A 09272018     | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D SIM ID

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## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 556636 Batch Start Date: 10/01/18 23:58 Batch Analyst: Yallabandi, Gopichand XBatch Method: 3510C Batch End Date: \_\_\_\_\_

| Lab Sample ID  | Client Sample ID | Method Chain           | Basis | OP_14-DX_surr<br>00004 |  |  |  |  |  |
|----------------|------------------|------------------------|-------|------------------------|--|--|--|--|--|
| 460-165769-F-9 | FB2 09272018     | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |

| Batch Notes                    |                      |
|--------------------------------|----------------------|
| Acid Used for pH Adjustment ID | 161554               |
| Base Used to Adjust pH ID      | OP2208               |
| Batch Comment                  | 3510 LVi bna isotope |
| Analyst ID - Concentration     | gy                   |
| Exchange Solvent ID            | 209513 mecl          |
| Analyst ID - Extraction        | gy                   |
| Method/Fraction                | bna water isotope    |
| Prep Solvent ID                | 181383               |
| Prep Solvent Volume Used       | 60 mL                |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 557439 Batch Start Date: 10/04/18 16:08 Batch Analyst: Safraz, Muhammed IBatch Method: 3510C Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain           | Basis | InitialAmount | FinalAmount | ReceivedpH | FirstAdjustpH | SecondAdjustpH | OP_1,4-DX_SP<br>00003 |
|-----------------------|------------------|------------------------|-------|---------------|-------------|------------|---------------|----------------|-----------------------|
| MB 460-557439/1       |                  | 3510C, 8270D<br>SIM ID |       | 250 mL        | 2 mL        | 7 SU       | <2 SU         | >12 SU         |                       |
| LCS<br>460-557439/2   |                  | 3510C, 8270D<br>SIM ID |       | 250 mL        | 2 mL        | 7 SU       | <2 SU         | >12 SU         | 200 uL                |
| 460-165951-E-6<br>MS  |                  | 3510C, 8270D<br>SIM ID | T     | 250 mL        | 2 mL        | 6 SU       | <2 SU         | >12 SU         | 200 uL                |
| 460-165951-E-6<br>MSD |                  | 3510C, 8270D<br>SIM ID | T     | 250 mL        | 2 mL        | 6 SU       | <2 SU         | >12 SU         | 200 uL                |
| 460-165769-F-8        | EB2 09272018     | 3510C, 8270D<br>SIM ID | T     | 250 mL        | 2 mL        | 7 SU       | <2 SU         | >12 SU         |                       |

| Lab Sample ID         | Client Sample ID | Method Chain           | Basis | OP_14-DX_surr<br>00004 |  |  |  |  |  |
|-----------------------|------------------|------------------------|-------|------------------------|--|--|--|--|--|
| MB 460-557439/1       |                  | 3510C, 8270D<br>SIM ID |       | 20 uL                  |  |  |  |  |  |
| LCS<br>460-557439/2   |                  | 3510C, 8270D<br>SIM ID |       | 20 uL                  |  |  |  |  |  |
| 460-165951-E-6<br>MS  |                  | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |
| 460-165951-E-6<br>MSD |                  | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |
| 460-165769-F-8        | EB2 09272018     | 3510C, 8270D<br>SIM ID | T     | 20 uL                  |  |  |  |  |  |

| Batch Notes                        |                                      |
|------------------------------------|--------------------------------------|
| Acid Used for pH Adjustment ID     | 161554                               |
| Base Used to Adjust pH ID          | OP2689                               |
| Batch Comment                      | 3510 LVI_8270D_SIM_MS_ID 1.4 dioxane |
| Analyst ID - Extraction            | SZ                                   |
| Method/Fraction                    | BNA Water SIM ISOTOPE                |
| Prep Solvent ID                    | 207560 mecl2                         |
| Prep Solvent Volume Used           | 120 mL                               |
| Analyst ID - Spike Analyst         | SZ                                   |
| Analyst ID - Spike Witness Analyst | FW                                   |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270D SIM ID

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## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 557439 Batch Start Date: 10/04/18 16:08 Batch Analyst: Safraz, Muhammed IBatch Method: 3510C Batch End Date: \_\_\_\_\_

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Method PFC IDA

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Fluorinated Hydrocarbons by Method  
PFAS IDA

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low  
 GC Column (1): C-18 ID: 4.6 (mm)

| Client Sample ID  | Lab Sample ID           | PFBA # | PFPeA # | PFBS # | PFHxA # | PFHpA # | PFHxS # | M262FTS # | PFOA # |
|-------------------|-------------------------|--------|---------|--------|---------|---------|---------|-----------|--------|
| FSMW-14A 09262018 | 460-165769-1            | 43     | 53      | 65     | 54      | 78      | 73      | 169 *     | 88     |
| EB1 092618        | 460-165769-4            | 82     | 80      | 80     | 87      | 96      | 79      | 105       | 100    |
| FB1 09262018      | 460-165769-5            | 91     | 90      | 74     | 79      | 94      | 70      | 102       | 99     |
| FSMW-8A 09272018  | 460-165769-6            | 22 *   | 39      | 70     | 45      | 76      | 88      | 217 *     | 100    |
| FSMW-1A 09272018  | 460-165769-7            | 29     | 41      | 66     | 53      | 75      | 89      | 201 *     | 88     |
| EB2 09272018      | 460-165769-8            | 84     | 83      | 93     | 88      | 89      | 89      | 87        | 95     |
| FB2 09272018      | 460-165769-9            | 75     | 77      | 85     | 83      | 90      | 76      | 94        | 94     |
|                   | MB<br>200-134904/1-A    | 80     | 87      | 83     | 88      | 86      | 82      | 111       | 98     |
|                   | LCS<br>200-134904/2-A   | 75     | 83      | 83     | 84      | 85      | 78      | 97        | 92     |
|                   | 460-165718-A-3-B<br>MS  | 38     | 40      | 54     | 45      | 74      | 78      | 171 *     | 94     |
|                   | 460-165718-A-3-C<br>MSD | 36     | 44      | 58     | 41      | 69      | 77      | 187 *     | 86     |

|                      |                  |
|----------------------|------------------|
|                      | <u>QC LIMITS</u> |
| PFBA = 13C4 PFBA     | 25-150           |
| PFPeA = 13C5 PFPeA   | 25-150           |
| PFBS = 13C3 PFBS     | 25-150           |
| PFHxA = 13C2 PFHxA   | 25-150           |
| PFHpA = 13C4 PFHpA   | 25-150           |
| PFHxS = 18O2 PFHxS   | 25-150           |
| M262FTS = M2-6:2 FTS | 25-150           |
| PFOA = 13C4 PFOA     | 25-150           |

# Column to be used to flag recovery values

FORM II 537 (modified)



FORM II  
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low  
 GC Column (1): C-18 ID: 4.6 (mm)

| Client Sample ID  | Lab Sample ID           | PFNA # | PFOS # | M282FTS # | PFDA # | d3NMFOS # | d5NEFOS # | PFUnA # | PFOSA # |
|-------------------|-------------------------|--------|--------|-----------|--------|-----------|-----------|---------|---------|
| FSMW-14A 09262018 | 460-165769-1            | 88     | 73     | 118       | 84     | 67        | 70        | 88      | 39      |
| EB1 092618        | 460-165769-4            | 104    | 72     | 105       | 98     | 74        | 93        | 103     | 54      |
| FB1 09262018      | 460-165769-5            | 97     | 71     | 102       | 101    | 70        | 89        | 97      | 52      |
| FSMW-8A 09272018  | 460-165769-6            | 103    | 92     | 209 *     | 107    | 83        | 91        | 111     | 67      |
| FSMW-1A 09272018  | 460-165769-7            | 95     | 85     | 166 *     | 96     | 74        | 80        | 92      | 56      |
| EB2 09272018      | 460-165769-8            | 92     | 84     | 89        | 92     | 77        | 84        | 94      | 52      |
| FB2 09272018      | 460-165769-9            | 88     | 77     | 93        | 83     | 73        | 80        | 92      | 45      |
|                   | MB<br>200-134904/1-A    | 96     | 78     | 110       | 95     | 70        | 87        | 103     | 45      |
|                   | LCS<br>200-134904/2-A   | 94     | 74     | 105       | 97     | 79        | 87        | 97      | 50      |
|                   | 460-165718-A-3-B<br>MS  | 109    | 70     | 325 *     | 138    | 88        | 100       | 112     | 57      |
|                   | 460-165718-A-3-C<br>MSD | 105    | 75     | 341 *     | 126    | 90        | 95        | 110     | 42      |

QC LIMITS

|                       |        |
|-----------------------|--------|
| PFNA = 13C5 PFNA      | 25-150 |
| PFOS = 13C4 PFOS      | 25-150 |
| M282FTS = M2-8:2 FTS  | 25-150 |
| PFDA = 13C2 PFDA      | 25-150 |
| d3NMFOS = d3-NMeFOSAA | 25-150 |
| d5NEFOS = d5-NEtFOSAA | 25-150 |
| PFUnA = 13C2 PFUnA    | 25-150 |
| PFOSA = 13C8 FOSA     | 25-150 |

# Column to be used to flag recovery values

FORM II 537 (modified)

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low  
GC Column (1): C-18 ID: 4.6 (mm)

| Client Sample ID  | Lab Sample ID           | PFD <sub>o</sub> A # | PFTD <sub>A</sub> # |
|-------------------|-------------------------|----------------------|---------------------|
| FSMW-14A 09262018 | 460-165769-1            | 78                   | 60                  |
| EB1 092618        | 460-165769-4            | 98                   | 64                  |
| FB1 09262018      | 460-165769-5            | 89                   | 86                  |
| FSMW-8A 09272018  | 460-165769-6            | 99                   | 104                 |
| FSMW-1A 09272018  | 460-165769-7            | 89                   | 92                  |
| EB2 09272018      | 460-165769-8            | 88                   | 86                  |
| FB2 09272018      | 460-165769-9            | 84                   | 85                  |
|                   | MB<br>200-134904/1-A    | 93                   | 61                  |
|                   | LCS<br>200-134904/2-A   | 89                   | 89                  |
|                   | 460-165718-A-3-B<br>MS  | 122                  | 118                 |
|                   | 460-165718-A-3-C<br>MSD | 114                  | 120                 |

|                                              |               |
|----------------------------------------------|---------------|
| PFD <sub>o</sub> A = 13C2 PFD <sub>o</sub> A | QC LIMITS     |
| PFTD <sub>A</sub> = 13C2 PFTeD <sub>A</sub>  | <u>25-150</u> |
|                                              | 25-150        |

# Column to be used to flag recovery values

FORM II 537 (modified)

FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: PF101218A18.d  
Lab ID: LCS 200-134904/2-A Client ID: \_\_\_\_\_

| COMPOUND                                                     | SPIKE<br>ADDED<br>(ng/L) | LCS<br>CONCENTRATION<br>(ng/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|--------------------------------------------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| Perfluorobutanoic acid (PFBA)                                | 40.0                     | 51.55                          | 129             | 50-150              |   |
| Perfluoropentanoic acid<br>(PFPeA)                           | 40.0                     | 43.99                          | 110             | 50-150              |   |
| Perfluorohexanoic acid (PFHxA)                               | 40.0                     | 38.63                          | 97              | 50-150              |   |
| Perfluoroheptanoic acid<br>(PFHpA)                           | 40.0                     | 40.85                          | 102             | 50-150              |   |
| Perfluorooctanoic acid (PFOA)                                | 40.0                     | 40.62                          | 102             | 50-150              |   |
| Perfluorononanoic acid (PFNA)                                | 40.0                     | 39.99                          | 100             | 50-150              |   |
| Perfluorodecanoic acid (PFDA)                                | 40.0                     | 42.59                          | 106             | 50-150              |   |
| Perfluoroundecanoic acid<br>(PFUnA)                          | 40.0                     | 38.53                          | 96              | 50-150              |   |
| Perfluorododecanoic acid<br>(PFDoA)                          | 40.0                     | 40.54                          | 101             | 50-150              |   |
| Perfluorotridecanoic acid<br>(PFTriA)                        | 40.0                     | 39.41                          | 99              | 50-150              |   |
| Perfluorotetradecanoic acid<br>(PFTeA)                       | 40.0                     | 37.67                          | 94              | 50-150              |   |
| Perfluorobutanesulfonic acid<br>(PFBS)                       | 40.0                     | 39.57                          | 99              | 50-150              |   |
| Perfluorohexanesulfonic acid<br>(PFHxS)                      | 40.0                     | 38.75                          | 97              | 50-150              |   |
| Perfluoroheptanesulfonic Acid<br>(PFHpS)                     | 40.0                     | 43.02                          | 108             | 50-150              |   |
| Perfluorooctanesulfonic acid<br>(PFOS)                       | 40.0                     | 40.66                          | 102             | 50-150              |   |
| Perfluorodecanesulfonic acid<br>(PFDS)                       | 40.0                     | 38.57                          | 96              | 50-150              |   |
| Perfluorooctanesulfonamide<br>(PFOSA)                        | 40.0                     | 39.44                          | 99              | 50-150              |   |
| N-methylperfluorooctanesulfona<br>midoacetic acid (NMeFOSAA) | 40.0                     | 39.55                          | 99              | 50-150              |   |
| N-ethylperfluorooctanesulfonam<br>idoacetic acid (NEtFOSAA)  | 40.0                     | 41.66                          | 104             | 50-150              |   |
| 1H,1H,2H,2H-perfluorooctanesul<br>fonic acid (6:2)           | 40.0                     | 49.47                          | 124             | 50-150              |   |
| 1H,1H,2H,2H-perfluorodecanesul<br>fonic acid (8:2)           | 40.0                     | 43.68                          | 109             | 50-150              |   |
| 18O2 PFHxS                                                   | 94.6                     | 73.42                          | 78              | 25-150              |   |
| 13C4 PFHpA                                                   | 100                      | 85.08                          | 85              | 25-150              |   |
| 13C4 PFOA                                                    | 100                      | 92.15                          | 92              | 25-150              |   |
| 13C4 PFOS                                                    | 95.6                     | 70.63                          | 74              | 25-150              |   |
| 13C5 PFNA                                                    | 100                      | 93.74                          | 94              | 25-150              |   |
| 13C4 PFBA                                                    | 100                      | 74.95                          | 75              | 25-150              |   |
| 13C2 PFHxA                                                   | 100                      | 83.69                          | 84              | 25-150              |   |
| 13C2 PFDA                                                    | 100                      | 96.54                          | 97              | 25-150              |   |
| 13C2 PFUnA                                                   | 100                      | 96.83                          | 97              | 25-150              |   |

# Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: PF101218A18.d  
 Lab ID: LCS 200-134904/2-A Client ID: \_\_\_\_\_

| COMPOUND    | SPIKE<br>ADDED<br>(ng/L) | LCS<br>CONCENTRATION<br>(ng/L) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 13C2 PFDoA  | 100                      | 88.50                          | 89              | 25-150              |   |
| 13C8 FOSA   | 100                      | 49.58                          | 50              | 25-150              |   |
| 13C5 PFPeA  | 100                      | 83.14                          | 83              | 25-150              |   |
| 13C2 PFTeDA | 100                      | 89.29                          | 89              | 25-150              |   |
| d3-NMeFOSAA | 100                      | 78.89                          | 79              | 25-150              |   |
| d5-NEtFOSAA | 100                      | 87.42                          | 87              | 25-150              |   |
| M2-6:2 FTS  | 95.0                     | 92.35                          | 97              | 25-150              |   |
| M2-8:2 FTS  | 95.8                     | 100.4                          | 105             | 25-150              |   |
| 13C3 PFBS   | 93.0                     | 77.35                          | 83              | 25-150              |   |

# Column to be used to flag recovery and RPD values  
 FORM III 537 (modified)

FORM III  
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: PF101218A30.d  
Lab ID: 460-165718-A-3-B MS Client ID: \_\_\_\_\_

| COMPOUND                                                 | SPIKE<br>ADDED<br>(ng/L) | SAMPLE<br>CONCENTRATION<br>(ng/L) | MS<br>CONCENTRATION<br>(ng/L) | MS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|----------------------------------------------------------|--------------------------|-----------------------------------|-------------------------------|----------------|---------------------|---|
| Perfluorobutanoic acid (PFBA)                            | 32.7                     | 9.14                              | 52.58                         | 133            | 40-160              |   |
| Perfluoropentanoic acid (PFPeA)                          | 32.7                     | 8.41                              | 38.95                         | 93             | 40-160              |   |
| Perfluorohexanoic acid (PFHxA)                           | 32.7                     | 5.43                              | 36.96                         | 96             | 40-160              |   |
| Perfluoroheptanoic acid (PFHpA)                          | 32.7                     | 5.52                              | 38.31                         | 100            | 40-160              |   |
| Perfluorooctanoic acid (PFOA)                            | 32.7                     | 18.3                              | 51.84                         | 103            | 40-160              |   |
| Perfluorononanoic acid (PFNA)                            | 32.7                     | 1.72                              | 34.27                         | 99             | 40-160              |   |
| Perfluorodecanoic acid (PFDA)                            | 32.7                     | 0.33 U                            | 33.46                         | 102            | 40-160              |   |
| Perfluoroundecanoic acid (PFUnA)                         | 32.7                     | 0.21 U                            | 29.75                         | 91             | 40-160              |   |
| Perfluorododecanoic acid (PFDoA)                         | 32.7                     | 0.30 U                            | 32.67                         | 100            | 40-160              |   |
| Perfluorotridecanoic acid (PFTriA)                       | 32.7                     | 0.21 U                            | 29.41                         | 90             | 40-160              |   |
| Perfluorotetradecanoic acid (PFTeA)                      | 32.7                     | 0.38 U                            | 30.67                         | 94             | 40-160              |   |
| Perfluorobutanesulfonic acid (PFBS)                      | 32.7                     | 8.92                              | 38.30                         | 90             | 40-160              |   |
| Perfluorohexanesulfonic acid (PFHxS)                     | 32.7                     | 1.66 J                            | 31.95                         | 93             | 40-160              |   |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 32.7                     | 0.70 U                            | 36.63                         | 112            | 40-160              |   |
| Perfluorooctanesulfonic acid (PFOS)                      | 32.7                     | 9.25                              | 45.03                         | 109            | 40-160              |   |
| Perfluorodecanesulfonic acid (PFDS)                      | 32.7                     | 0.45 U                            | 34.98                         | 107            | 40-160              |   |
| Perfluorooctanesulfonamide (PFOSA)                       | 32.7                     | 0.48 U                            | 33.80                         | 103            | 40-160              |   |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 32.7                     | 0.38 U                            | 33.37                         | 102            | 40-160              |   |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 32.7                     | 0.60 U                            | 33.86                         | 103            | 40-160              |   |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 32.7                     | 0.86 U                            | 32.37                         | 99             | 40-160              |   |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 32.7                     | 0.48 U                            | 32.93                         | 101            | 40-160              |   |
| 18O2 PFHxS                                               | 77.4                     | 54.4                              | 60.01                         | 78             | 25-150              |   |
| 13C4 PFHpA                                               | 81.8                     | 63.4                              | 60.37                         | 74             | 25-150              |   |
| 13C4 PFOA                                                | 81.8                     | 76.0                              | 76.62                         | 94             | 25-150              |   |
| 13C4 PFOS                                                | 78.2                     | 62.2                              | 55.07                         | 70             | 25-150              |   |
| 13C5 PFNA                                                | 81.8                     | 90.8                              | 89.33                         | 109            | 25-150              |   |
| 13C4 PFBA                                                | 81.8                     | 27.6                              | 31.33                         | 38             | 25-150              |   |
| 13C2 PFHxA                                               | 81.8                     | 37.4                              | 37.18                         | 45             | 25-150              |   |
| 13C2 PFDA                                                | 81.8                     | 106                               | 112.6                         | 138            | 25-150              |   |
| 13C2 PFUnA                                               | 81.8                     | 84.4                              | 91.68                         | 112            | 25-150              |   |

# Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III  
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: PF101218A30.d  
 Lab ID: 460-165718-A-3-B MS Client ID: \_\_\_\_\_

| COMPOUND    | SPIKE<br>ADDED<br>(ng/L) | SAMPLE<br>CONCENTRATION<br>(ng/L) | MS<br>CONCENTRATION<br>(ng/L) | MS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|-------------|--------------------------|-----------------------------------|-------------------------------|----------------|---------------------|---|
| 13C2 PFDoA  | 81.8                     | 102                               | 100.2                         | 122            | 25-150              |   |
| 13C8 FOSA   | 81.8                     | 39.4                              | 46.89                         | 57             | 25-150              |   |
| 13C5 PFPeA  | 81.8                     | 26.3                              | 32.71                         | 40             | 25-150              |   |
| 13C2 PFTeDA | 81.8                     | 68.5                              | 96.35                         | 118            | 25-150              |   |
| d3-NMeFOSAA | 81.8                     | 71.0                              | 72.26                         | 88             | 25-150              |   |
| d5-NEtFOSAA | 81.8                     | 75.6                              | 81.49                         | 100            | 25-150              |   |
| M2-6:2 FTS  | 77.7                     | 140                               | 132.9                         | 171            | 25-150              | * |
| M2-8:2 FTS  | 78.3                     | 224                               | 254.9                         | 325            | 25-150              | * |
| 13C3 PFBS   | 76.1                     | 43.0                              | 41.34                         | 54             | 25-150              |   |

# Column to be used to flag recovery and RPD values  
 FORM III 537 (modified)

FORM III  
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
SDG No.: \_\_\_\_\_  
Matrix: Water Level: Low Lab File ID: PF101218A31.d  
Lab ID: 460-165718-A-3-C MSD Client ID: \_\_\_\_\_

| COMPOUND                                                 | SPIKE<br>ADDED<br>(ng/L) | MSD<br>CONCENTRATION<br>(ng/L) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|----------------------------------------------------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|---|
|                                                          |                          |                                |                 |          | RPD       | REC    |   |
| Perfluorobutanoic acid (PFBA)                            | 32.6                     | 50.43                          | 127             | 4        | 30        | 40-160 |   |
| Perfluoropentanoic acid (PFPeA)                          | 32.6                     | 38.00                          | 91              | 2        | 30        | 40-160 |   |
| Perfluorohexanoic acid (PFHxA)                           | 32.6                     | 39.80                          | 105             | 7        | 30        | 40-160 |   |
| Perfluoroheptanoic acid (PFHpA)                          | 32.6                     | 39.60                          | 104             | 3        | 30        | 40-160 |   |
| Perfluorooctanoic acid (PFOA)                            | 32.6                     | 55.44                          | 114             | 7        | 30        | 40-160 |   |
| Perfluorononanoic acid (PFNA)                            | 32.6                     | 35.61                          | 104             | 4        | 30        | 40-160 |   |
| Perfluorodecanoic acid (PFDA)                            | 32.6                     | 34.84                          | 107             | 4        | 30        | 40-160 |   |
| Perfluoroundecanoic acid (PFUnA)                         | 32.6                     | 30.99                          | 95              | 4        | 30        | 40-160 |   |
| Perfluorododecanoic acid (PFDoA)                         | 32.6                     | 33.65                          | 103             | 3        | 30        | 40-160 |   |
| Perfluorotridecanoic acid (PFTriA)                       | 32.6                     | 27.27                          | 84              | 8        | 30        | 40-160 |   |
| Perfluorotetradecanoic acid (PFTeA)                      | 32.6                     | 31.44                          | 96              | 2        | 30        | 40-160 |   |
| Perfluorobutanesulfonic acid (PFBS)                      | 32.6                     | 43.83                          | 107             | 13       | 30        | 40-160 |   |
| Perfluorohexanesulfonic acid (PFHxS)                     | 32.6                     | 34.38                          | 100             | 7        | 30        | 40-160 |   |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 32.6                     | 35.32                          | 108             | 4        | 30        | 40-160 |   |
| Perfluorooctanesulfonic acid (PFOS)                      | 32.6                     | 42.90                          | 103             | 5        | 30        | 40-160 |   |
| Perfluorodecanesulfonic acid (PFDS)                      | 32.6                     | 30.49                          | 93              | 14       | 30        | 40-160 |   |
| Perfluorooctanesulfonamide (PFOSA)                       | 32.6                     | 34.33                          | 105             | 2        | 30        | 40-160 |   |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 32.6                     | 32.87                          | 101             | 2        | 30        | 40-160 |   |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 32.6                     | 32.92                          | 101             | 3        | 30        | 40-160 |   |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 32.6                     | 32.77                          | 100             | 1        | 30        | 40-160 |   |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 32.6                     | 36.99                          | 113             | 12       | 30        | 40-160 |   |
| 18O2 PFHxS                                               | 77.2                     | 59.49                          | 77              |          |           | 25-150 |   |
| 13C4 PFHpA                                               | 81.6                     | 56.38                          | 69              |          |           | 25-150 |   |
| 13C4 PFOA                                                | 81.6                     | 69.99                          | 86              |          |           | 25-150 |   |
| 13C4 PFOS                                                | 78.0                     | 58.16                          | 75              |          |           | 25-150 |   |
| 13C5 PFNA                                                | 81.6                     | 85.64                          | 105             |          |           | 25-150 |   |
| 13C4 PFBA                                                | 81.6                     | 28.99                          | 36              |          |           | 25-150 |   |
| 13C2 PFHxA                                               | 81.6                     | 33.08                          | 41              |          |           | 25-150 |   |
| 13C2 PFDA                                                | 81.6                     | 102.7                          | 126             |          |           | 25-150 |   |
| 13C2 PFUnA                                               | 81.6                     | 90.07                          | 110             |          |           | 25-150 |   |

# Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III  
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: PF101218A31.d  
 Lab ID: 460-165718-A-3-C MSD Client ID: \_\_\_\_\_

| COMPOUND    | SPIKE<br>ADDED<br>(ng/L) | MSD<br>CONCENTRATION<br>(ng/L) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|-------------|--------------------------|--------------------------------|-----------------|----------|-----------|--------|---|
|             |                          |                                |                 |          | RPD       | REC    |   |
| 13C2 PFDoA  | 81.6                     | 92.78                          | 114             |          |           | 25-150 |   |
| 13C8 FOSA   | 81.6                     | 34.20                          | 42              |          |           | 25-150 |   |
| 13C5 PFPeA  | 81.6                     | 35.72                          | 44              |          |           | 25-150 |   |
| 13C2 PFTeDA | 81.6                     | 98.00                          | 120             |          |           | 25-150 |   |
| d3-NMeFOSAA | 81.6                     | 73.55                          | 90              |          |           | 25-150 |   |
| d5-NEtFOSAA | 81.6                     | 77.68                          | 95              |          |           | 25-150 |   |
| M2-6:2 FTS  | 77.5                     | 144.9                          | 187             |          |           | 25-150 | * |
| M2-8:2 FTS  | 78.2                     | 266.2                          | 341             |          |           | 25-150 | * |
| 13C3 PFBS   | 75.9                     | 43.92                          | 58              |          |           | 25-150 |   |

# Column to be used to flag recovery and RPD values  
 FORM III 537 (modified)



FORM IV  
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: PF101218A17.d Lab Sample ID: MB 200-134904/1-A  
 Matrix: Water Date Extracted: 10/05/2018 12:20  
 Instrument ID: LC410 Date Analyzed: 10/12/2018 20:23  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID  | LAB SAMPLE ID        | LAB<br>FILE ID    | DATE ANALYZED    |
|-------------------|----------------------|-------------------|------------------|
|                   | LCS 200-134904/2-A   | PF101218A18<br>.d | 10/12/2018 20:39 |
| FSMW-14A 09262018 | 460-165769-1         | PF101218A19<br>.d | 10/12/2018 20:55 |
| EB1 092618        | 460-165769-4         | PF101218A20<br>.d | 10/12/2018 21:11 |
| FB1 09262018      | 460-165769-5         | PF101218A21<br>.d | 10/12/2018 21:26 |
| FSMW-8A 09272018  | 460-165769-6         | PF101218A22<br>.d | 10/12/2018 21:42 |
| FSMW-1A 09272018  | 460-165769-7         | PF101218A23<br>.d | 10/12/2018 21:58 |
| EB2 09272018      | 460-165769-8         | PF101218A24<br>.d | 10/12/2018 22:14 |
| FB2 09272018      | 460-165769-9         | PF101218A25<br>.d | 10/12/2018 22:30 |
|                   | 460-165718-A-3-B MS  | PF101218A30<br>.d | 10/12/2018 23:50 |
|                   | 460-165718-A-3-C MSD | PF101218A31<br>.d | 10/13/2018 00:05 |

FORM VIII  
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-135180/10 Date Analyzed: 10/12/2018 18:32  
 Instrument ID: LC410 GC Column: C-18 ID: 4.6 (mm)  
 Lab File ID (Standard): PF101218A10.d Heated Purge: (Y/N) N  
 Calibration ID: 40207

|                               |                   | 13PFOA  |      |        |      |        |      |
|-------------------------------|-------------------|---------|------|--------|------|--------|------|
|                               |                   | AREA #  | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT |                   | 800290  | 4.39 |        |      |        |      |
| UPPER LIMIT                   |                   | 1200435 | 4.59 |        |      |        |      |
| LOWER LIMIT                   |                   | 400145  | 4.19 |        |      |        |      |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID  |         |      |        |      |        |      |
| ICB 200-135180/15             |                   | 733866  | 4.41 |        |      |        |      |
| ICV 200-135180/16             |                   | 715841  | 4.41 |        |      |        |      |
| MB 200-134904/1-A             |                   | 811042  | 4.39 |        |      |        |      |
| LCS 200-134904/2-A            |                   | 812925  | 4.39 |        |      |        |      |
| 460-165769-1                  | FSMW-14A 09262018 | 840119  | 4.39 |        |      |        |      |
| 460-165769-4                  | EB1 092618        | 793503  | 4.41 |        |      |        |      |
| 460-165769-5                  | FB1 09262018      | 722524  | 4.41 |        |      |        |      |
| 460-165769-6                  | FSMW-8A 09272018  | 623106  | 4.36 |        |      |        |      |
| 460-165769-7                  | FSMW-1A 09272018  | 666846  | 4.37 |        |      |        |      |
| 460-165769-8                  | EB2 09272018      | 888755  | 4.39 |        |      |        |      |
| 460-165769-9                  | FB2 09272018      | 897571  | 4.39 |        |      |        |      |
| CCV 200-135180/28             |                   | 858264  | 4.37 |        |      |        |      |
| 460-165718-A-3-B MS           |                   | 615288  | 4.34 |        |      |        |      |
| 460-165718-A-3-C MSD          |                   | 682216  | 4.34 |        |      |        |      |
| CCV 200-135180/40             |                   | 752095  | 4.39 |        |      |        |      |

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area  
 RT Limit =  $\pm$  0.2 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u>    | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                             |                                            |
| Client Sample ID: <u>FSMW-14A 09262018</u> | Lab Sample ID: <u>460-165769-1</u>         |
| Matrix: <u>Water</u>                       | Lab File ID: <u>PF101218A19.d</u>          |
| Analysis Method: <u>537 (modified)</u>     | Date Collected: <u>09/26/2018 11:05</u>    |
| Extraction Method: <u>3535</u>             | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>299.4 (mL)</u>           | Date Analyzed: <u>10/12/2018 20:55</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>         | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>           | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                          | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>          | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q   | RL   | MDL  |
|------------|----------------------------------------------------------|--------|-----|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 7.41   | B   | 1.67 | 0.34 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 5.30   |     | 1.67 | 0.63 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 5.08   |     | 1.67 | 0.20 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 8.60   |     | 1.67 | 0.27 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 14.8   |     | 1.67 | 0.27 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 2.06   |     | 1.67 | 0.32 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 2.77   |     | 1.67 | 0.32 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 1.22   | J B | 1.67 | 0.21 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 0.29   | U   | 1.67 | 0.29 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 0.20   | U   | 1.67 | 0.20 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 0.38   | U   | 1.67 | 0.38 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 2.73   |     | 1.67 | 0.37 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 1.58   | J B | 1.67 | 0.22 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.68   | U   | 1.67 | 0.68 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 8.29   |     | 1.67 | 0.63 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 0.44   | U   | 1.67 | 0.44 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 0.47   | U   | 1.67 | 0.47 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.38   | U   | 16.7 | 0.38 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.58   | U   | 16.7 | 0.58 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 2.24   | J   | 16.7 | 0.84 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.47   | U   | 16.7 | 0.47 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u>    | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                             |                                            |
| Client Sample ID: <u>FSMW-14A 09262018</u> | Lab Sample ID: <u>460-165769-1</u>         |
| Matrix: <u>Water</u>                       | Lab File ID: <u>PF101218A19.d</u>          |
| Analysis Method: <u>537 (modified)</u>     | Date Collected: <u>09/26/2018 11:05</u>    |
| Extraction Method: <u>3535</u>             | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>299.4 (mL)</u>           | Date Analyzed: <u>10/12/2018 20:55</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>         | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>           | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                          | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>          | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 73   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 78   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 88   |   | 25-150 |
| STL00991 | 13C4 PFOS        | 73   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 88   |   | 25-150 |
| STL00992 | 13C4 PFBA        | 43   |   | 25-150 |
| STL00993 | 13C2 PFHxA       | 54   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 84   |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 88   |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 78   |   | 25-150 |
| STL01056 | 13C8 FOSA        | 39   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 53   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 60   |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 67   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 70   |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 169  | * | 25-150 |
| STL02280 | M2-8:2 FTS       | 118  |   | 25-150 |
| STL02337 | 13C3 PFBS        | 65   |   | 25-150 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A19.d  
 Lims ID: 460-165769-D-1-A  
 Client ID: FSMW-14A 09262018  
 Sample Type: Client  
 Inject. Date: 12-Oct-2018 20:55:16 ALS Bottle#: 0 Worklist Smp#: 19  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-019 769-1  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:43:45 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
 Column 1 : Det: F1:MRM  
 Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:30:15

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |        |        |        |          |              |               |      |      |       |
| 216.9 > 171.5                         | 2.338 | 2.326  | 0.012  | 1.000  | 194713   | 21.5         |               | 43.0 | 165  |       |
| 2 Perfluorobutanoic acid              |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                         | 2.334 | 2.344  | -0.010 | 0.998  | 16557    | 4.44         |               |      | 25.3 | M     |
| D 3 13C5 PFPeA                        |       |        |        |        |          |              |               |      |      |       |
| 267.7 > 222.6                         | 2.750 | 2.763  | -0.013 | 1.000  | 57847    | 26.6         |               | 53.2 | 175  |       |
| 4 Perfluoropentanoic acid             |       |        |        |        |          |              |               |      |      | M     |
| 262.9 > 218.8                         | 2.750 | 2.763  | -0.013 | 1.000  | 24862    | 3.17         |               |      | 31.6 | M     |
| D 6 13C3 PFBS                         |       |        |        |        |          |              |               |      |      |       |
| 302.0 > 79.8                          | 2.801 | 2.829  | -0.028 | 1.000  | 95430    | 30.0         |               | 64.5 | 365  |       |
| 5 Perfluorobutanesulfonic acid        |       |        |        |        |          |              |               |      |      | M     |
| 298.9 > 80.0                          | 2.818 | 2.830  | -0.012 | 1.006  | 6814     | 1.63         |               |      | 6.8  | M     |
| D 7 13C2 PFHxA                        |       |        |        |        |          |              |               |      |      | M     |
| 314.8 > 269.6                         | 3.164 | 3.188  | -0.024 | 1.000  | 178136   | 26.9         |               | 53.8 | 470  | M     |
| 8 Perfluorohexanoic acid              |       |        |        |        |          |              |               |      |      |       |
| 312.8 > 268.6                         | 3.164 | 3.189  | -0.025 | 1.000  | 11518    | 3.04         |               |      | 29.1 |       |
| D 9 13C4 PFHpA                        |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                         | 3.703 | 3.725  | -0.022 | 1.000  | 754680   | 38.9         |               | 77.9 | 1262 |       |
| 10 Perfluoroheptanoic acid            |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                         | 3.703 | 3.728  | -0.025 | 1.000  | 78120    | 5.15         |               |      | 127  |       |
| 12 Perfluorohexanesulfonic acid       |       |        |        |        |          |              |               |      |      | M     |
| 399.0 > 80.0                          | 3.759 | 3.769  | -0.010 | 1.003  | 4929     | 0.9450       |               |      | 18.7 | M     |
| D 11 18O2 PFHxS                       |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                          | 3.748 | 3.770  | -0.022 | 1.000  | 132213   | 34.5         |               | 72.9 | 973  |       |
| D 13 M2-6:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                         | 4.330 | 4.353  | -0.023 | 1.000  | 56116    | 80.2         |               | 169  | 418  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 426.6 > 406.6                         | 4.342 | 4.355  | -0.013 | 1.003  | 1637     | 1.34         |               |      | 22.9 |       |

| Signal                          | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| * 15 13C2 PFOA                  |       |           |           |           |          |                 |               |      |      |       |
| 414.9 > 369.8                   | 4.393 | 4.401     | -0.008    |           | 840119   | 50.0            |               |      | 3112 |       |
| D 17 13C4 PFOA                  |       |           |           |           |          |                 |               |      |      |       |
| 416.9 > 371.8                   | 4.393 | 4.407     | -0.014    | 1.000     | 680992   | 43.8            |               | 87.6 | 3095 |       |
| 16 Perfluorooctanoic acid       |       |           |           |           |          |                 |               |      |      |       |
| 412.9 > 368.8                   | 4.393 | 4.409     | -0.016    | 1.000     | 126303   | 8.86            |               |      | 603  |       |
| D 20 13C5 PFNA                  |       |           |           |           |          |                 |               |      |      |       |
| 467.8 > 422.8                   | 5.154 | 5.171     | -0.017    | 1.000     | 878767   | 44.2            |               | 88.3 | 1261 |       |
| 19 Perfluorononanoic acid       |       |           |           |           |          |                 |               |      |      |       |
| 462.8 > 418.8                   | 5.154 | 5.175     | -0.021    | 1.000     | 32608    | 1.24            |               |      | 180  |       |
| D 22 13C4 PFOS                  |       |           |           |           |          |                 |               |      |      |       |
| 502.8 > 79.8                    | 5.181 | 5.195     | -0.014    | 1.000     | 112167   | 34.9            |               | 73.0 | 494  |       |
| 21 Perfluorooctanesulfonic acid |       |           |           |           |          |                 |               |      |      |       |
| 498.8 > 79.8                    | 5.168 | 5.197     | -0.029    | 0.997     | 12037    | 4.97            |               |      | 64.1 | M     |
| D 24 M2-8:2 FTS                 |       |           |           |           |          |                 |               |      |      |       |
| 528.8 > 508.8                   | 5.902 | 5.929     | -0.027    | 1.000     | 296231   | 56.3            |               | 118  | 534  |       |
| D 26 13C2 PFDA                  |       |           |           |           |          |                 |               |      |      |       |
| 514.9 > 469.5                   | 5.926 | 5.950     | -0.024    | 1.000     | 918300   | 42.1            |               | 84.2 | 1307 |       |
| 25 Perfluorodecanoic acid       |       |           |           |           |          |                 |               |      |      |       |
| 512.9 > 468.5                   | 5.926 | 5.956     | -0.030    | 1.000     | 29871    | 1.66            |               |      | 104  |       |
| D 27 d3-NMeFOSAA                |       |           |           |           |          |                 |               |      |      |       |
| 572.8 > 418.8                   | 6.277 | 6.311     | -0.034    | 1.000     | 205114   | 33.4            |               | 66.8 | 752  |       |
| D 29 d5-NEtFOSAA                |       |           |           |           |          |                 |               |      |      |       |
| 588.9 > 418.8                   | 6.652 | 6.674     | -0.022    | 1.000     | 185626   | 34.8            |               | 69.6 | 812  |       |
| D 32 13C2 PFUnA                 |       |           |           |           |          |                 |               |      |      |       |
| 564.8 > 519.8                   | 6.688 | 6.720     | -0.032    | 1.000     | 1100675  | 44.0            |               | 88.1 | 2583 |       |
| 33 Perfluoroundecanoic acid     |       |           |           |           |          |                 |               |      |      |       |
| 562.8 > 518.6                   | 6.706 | 6.720     | -0.014    | 1.003     | 14191    | 0.7277          |               |      | 62.6 |       |
| D 35 13C8 FOSA                  |       |           |           |           |          |                 |               |      |      |       |
| 505.8 > 77.8                    | 6.959 | 6.973     | -0.014    | 1.000     | 110277   | 19.3            |               | 38.7 | 713  |       |
| D 37 13C2 PFDoA                 |       |           |           |           |          |                 |               |      |      |       |
| 614.8 > 569.6                   | 7.362 | 7.402     | -0.040    | 1.000     | 1065741  | 38.9            |               | 77.8 | 3090 |       |
| 36 Perfluorododecanoic acid     |       |           |           |           |          |                 |               |      |      |       |
| 612.8 > 568.6                   | 7.362 | 7.407     | -0.045    | 1.000     | 1322     | 0.0717          |               |      | 9.9  | M     |
| 38 Perfluorotridecanoic acid    |       |           |           |           |          |                 |               |      |      |       |
| 662.8 > 618.6                   | 8.029 | 8.020     | 0.009     | 0.940     | 575      | 0.0389          |               |      | 3.4  | M     |
| D 40 13C2 PFTeDA                |       |           |           |           |          |                 |               |      |      |       |
| 714.8 > 669.6                   | 8.545 | 8.563     | -0.018    | 1.000     | 794870   | 29.9            |               | 59.7 | 911  |       |

## QC Flag Legend

Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A19.d

Injection Date: 12-Oct-2018 20:55:16

Instrument ID: LC410

Lims ID: 460-165769-D-1-A

Lab Sample ID: 200-165769-1

Client ID: FSMW-14A 09262018

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 19

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

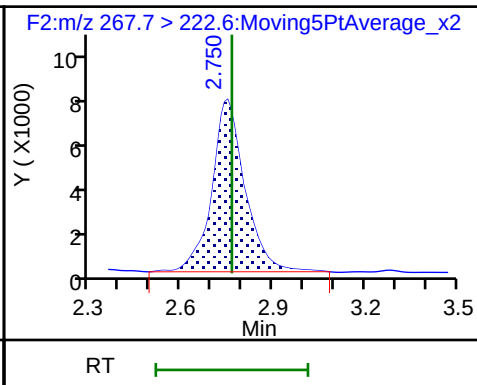
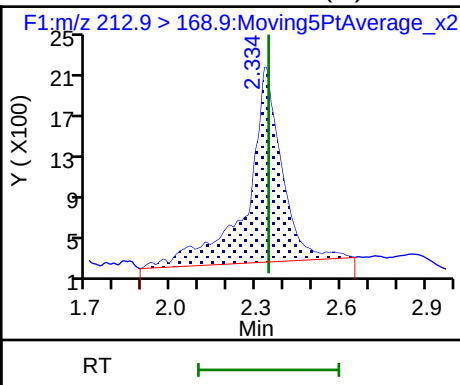
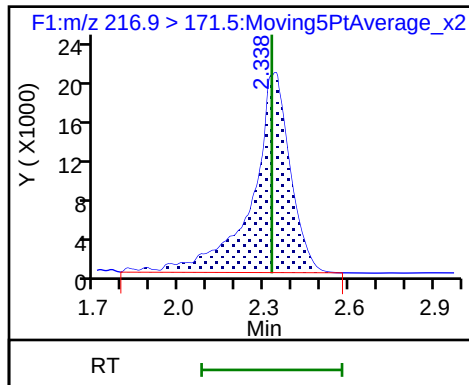
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

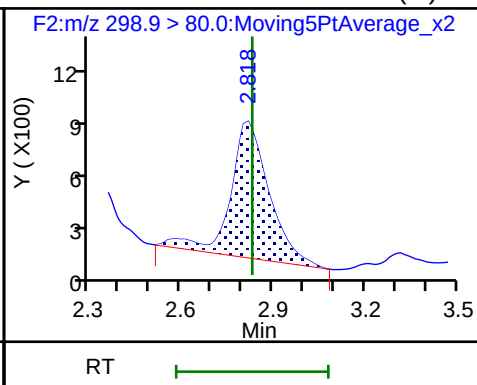
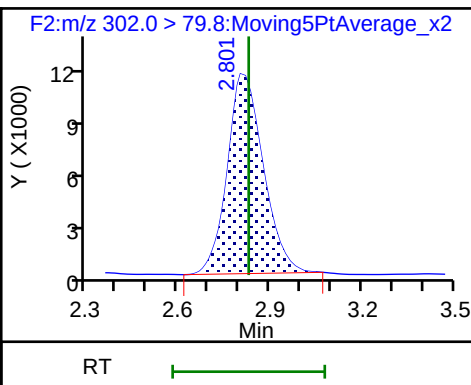
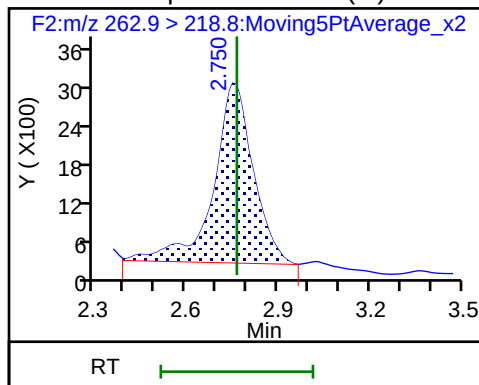
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS

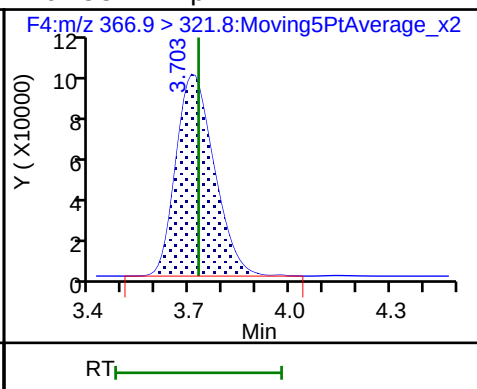
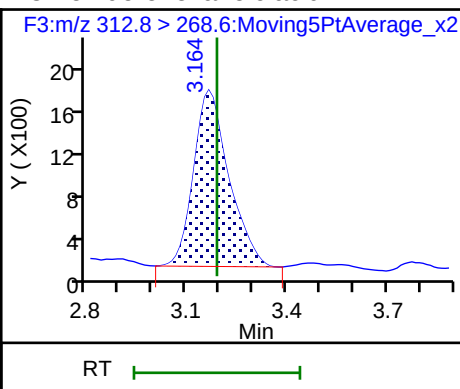
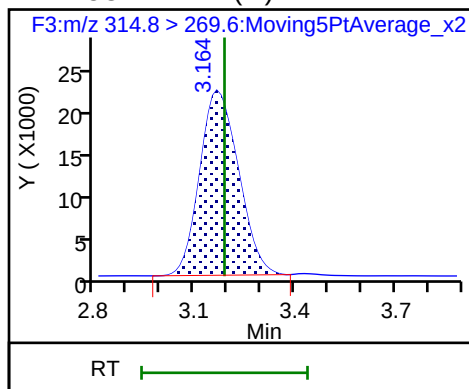
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA (M)

8 Perfluorohexanoic acid

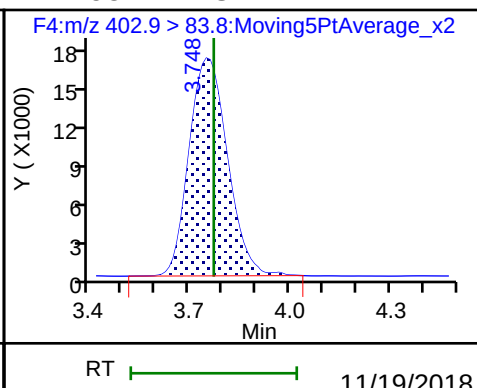
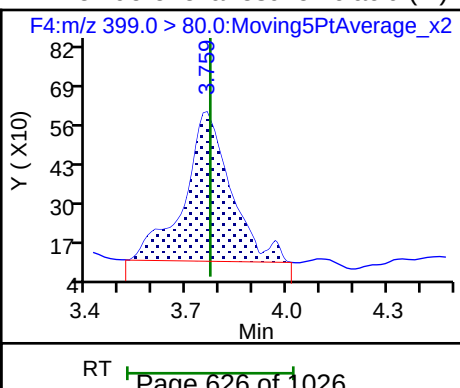
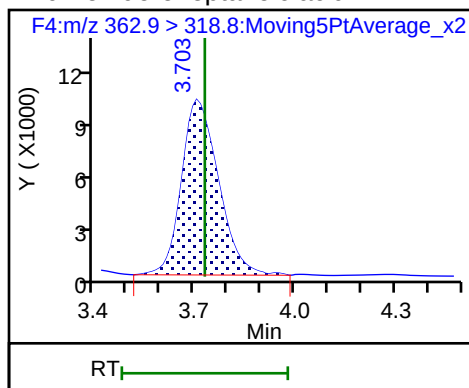
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid (M)

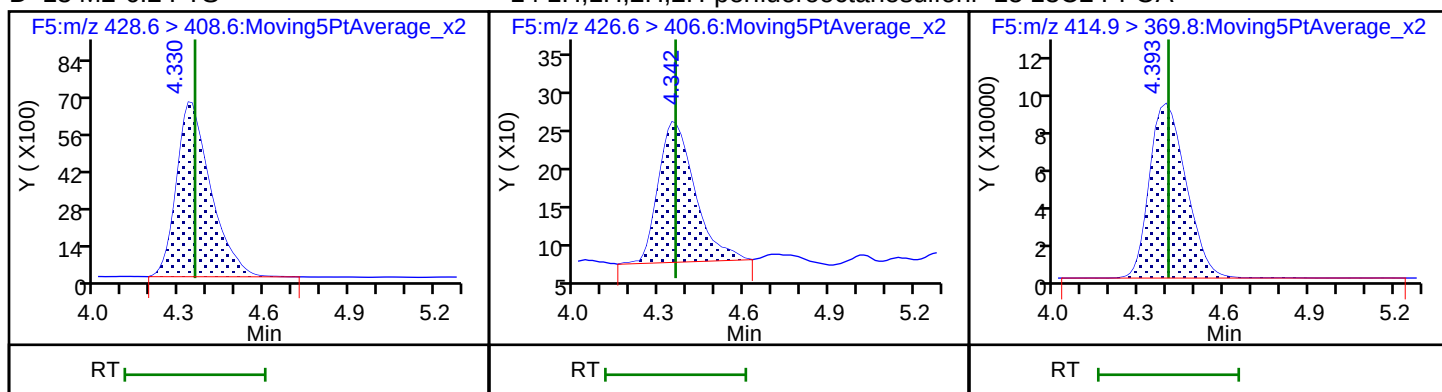
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

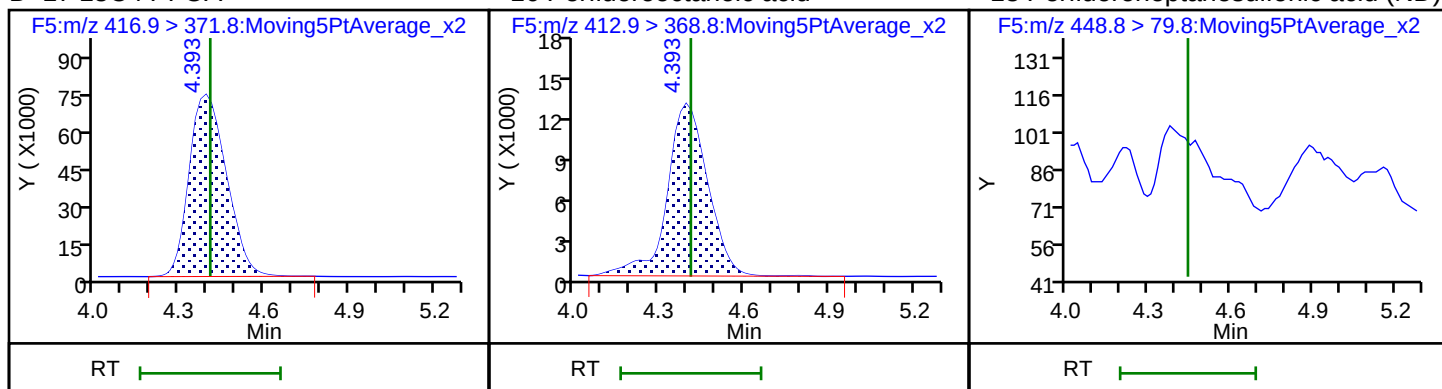
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

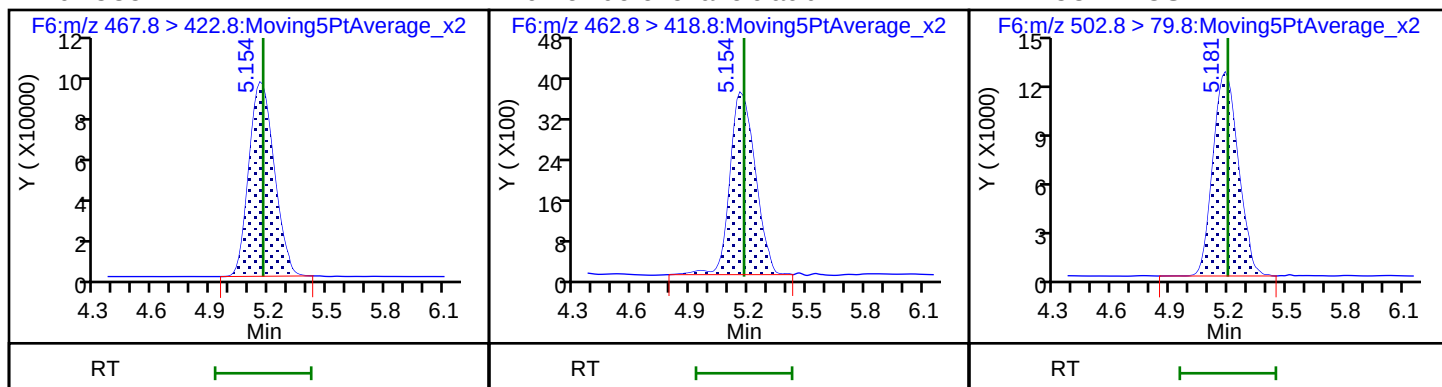
18 Perfluoroheptanesulfonic acid (ND)



D 20 13C5 PFNA

19 Perfluorononanoic acid

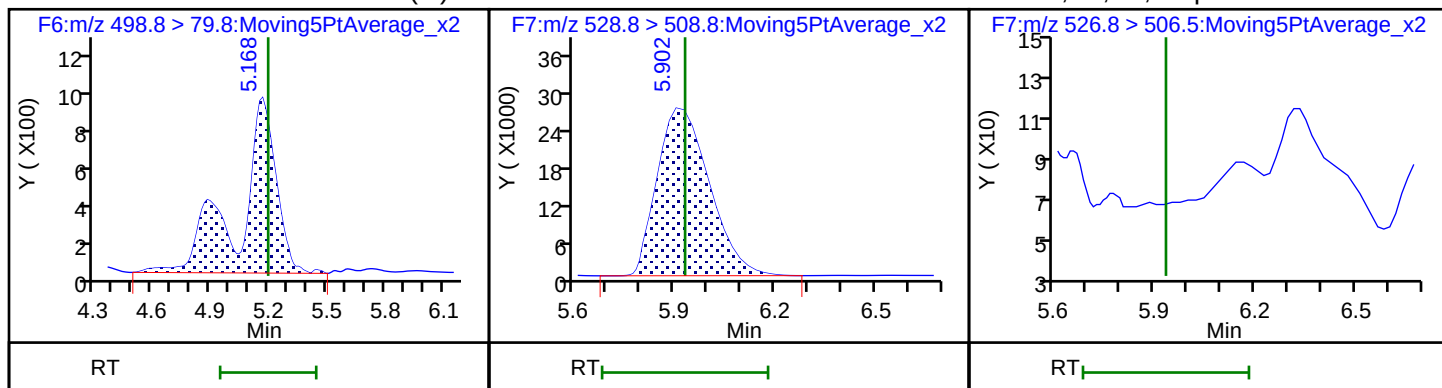
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

23 1H,1H,2H,2H-perfluorodecanesulfonate (ND)

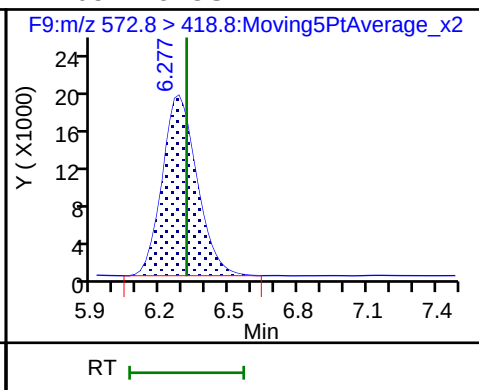
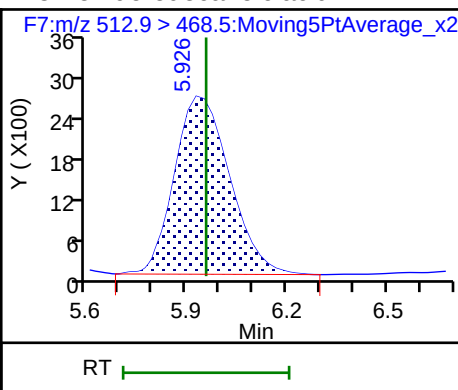
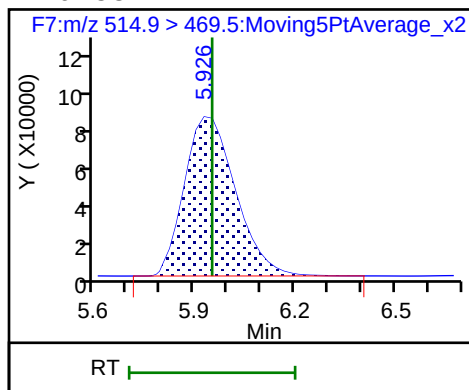




## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

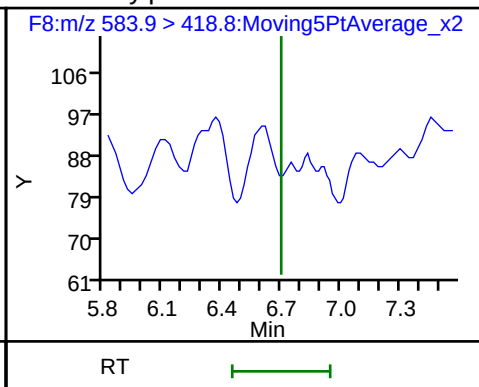
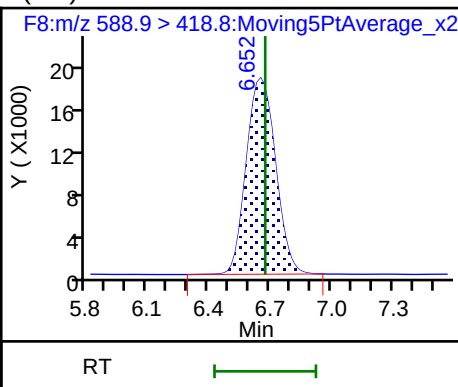
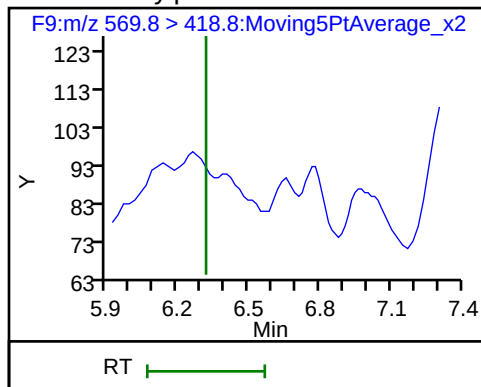
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamide (ND)

## D 29 d15-NEtFOSAA

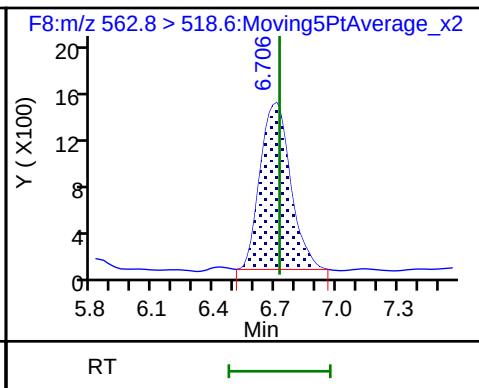
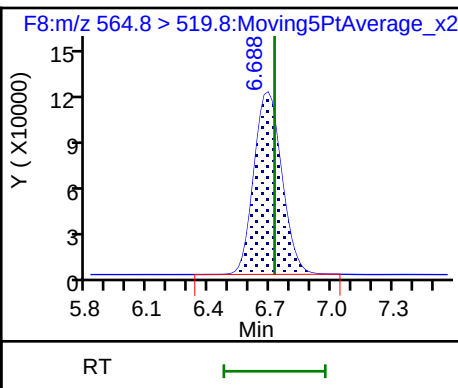
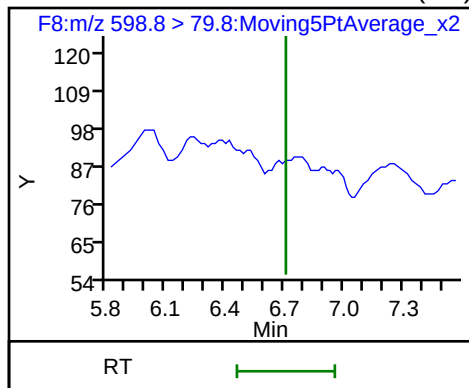
## 30 N-ethylperfluorooctanesulfonamide (ND)



## 31 Perfluorodecanesulfonic acid (ND)

## D 32 13C2 PFUnA

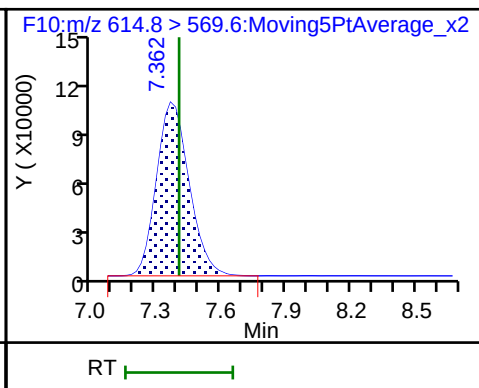
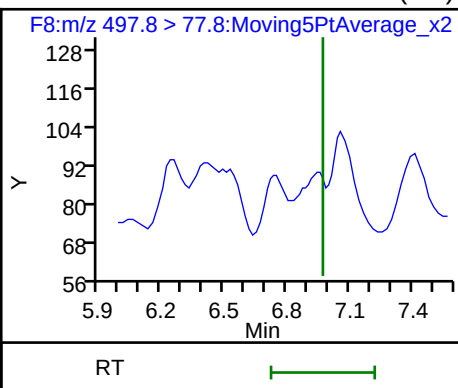
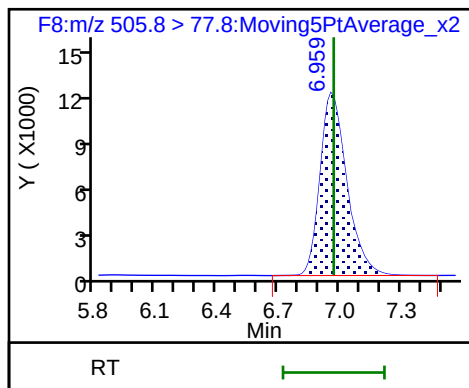
## 33 Perfluoroundecanoic acid



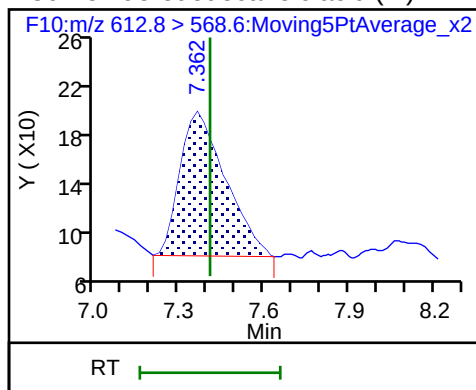
## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide (ND)

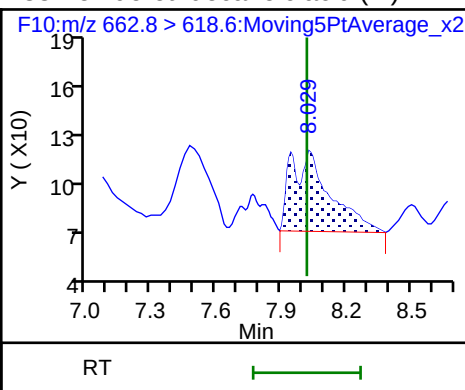
## D 37 13C2 PFDaA



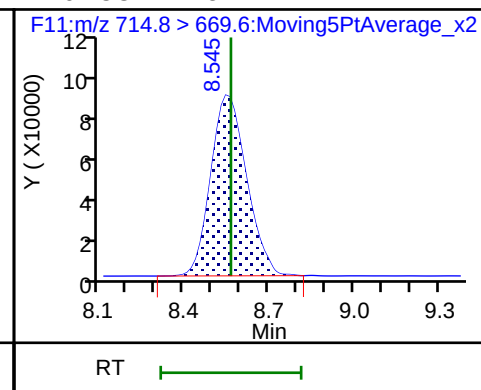
## 36 Perfluorododecanoic acid (M)



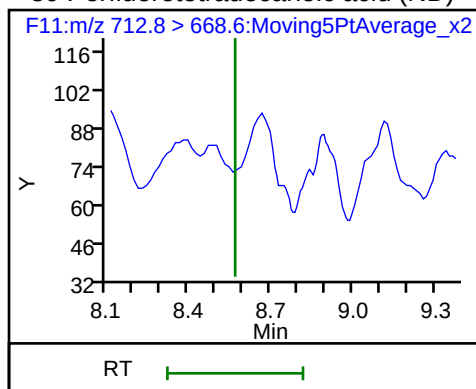
## 38 Perfluorotridecanoic acid (M)



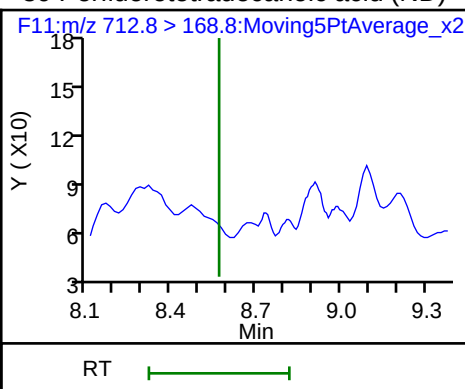
## D 40 13C2 PFTeDA



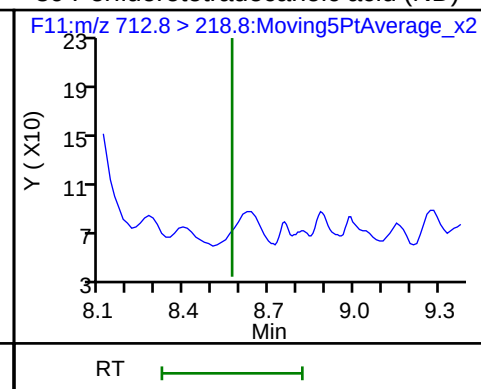
## 39 Perfluorotetradecanoic acid (ND)



## 39 Perfluorotetradecanoic acid (ND)



## 39 Perfluorotetradecanoic acid (ND)



## TestAmerica Burlington

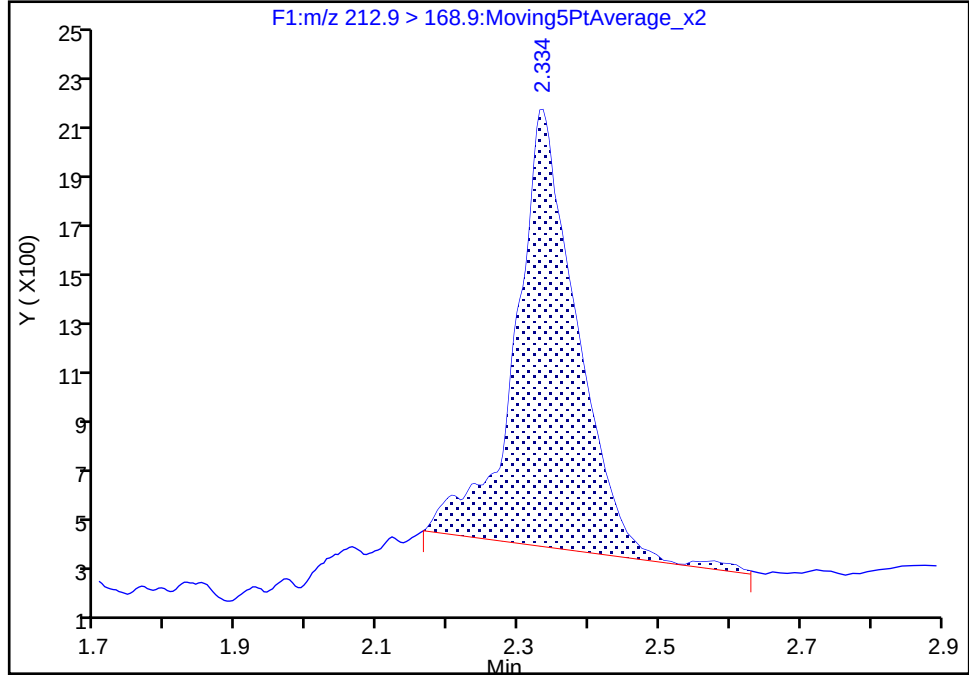
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| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A19.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 20:55:16                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-1-A                                                    | Lab Sample ID: | 200-165769-1 |                |    |
| Client ID:      | FSMW-14A 09262018                                                   |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 19 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector:      | F1:MRM       |                |    |

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

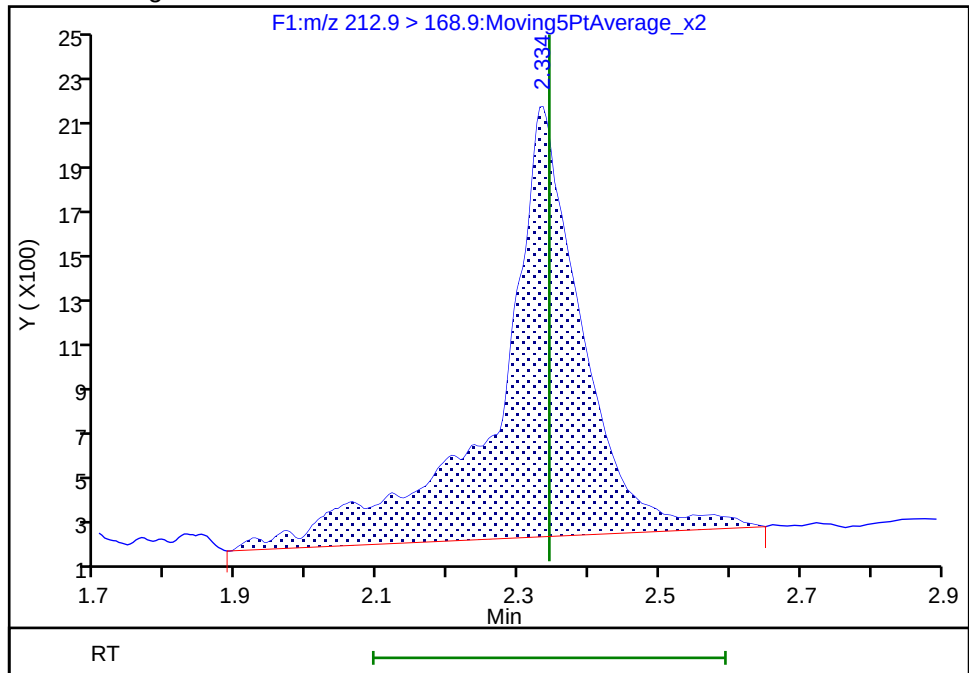
RT: 2.33  
Area: 10991  
Amount: 2.945824  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.33  
Area: 16557  
Amount: 4.437632  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:28:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

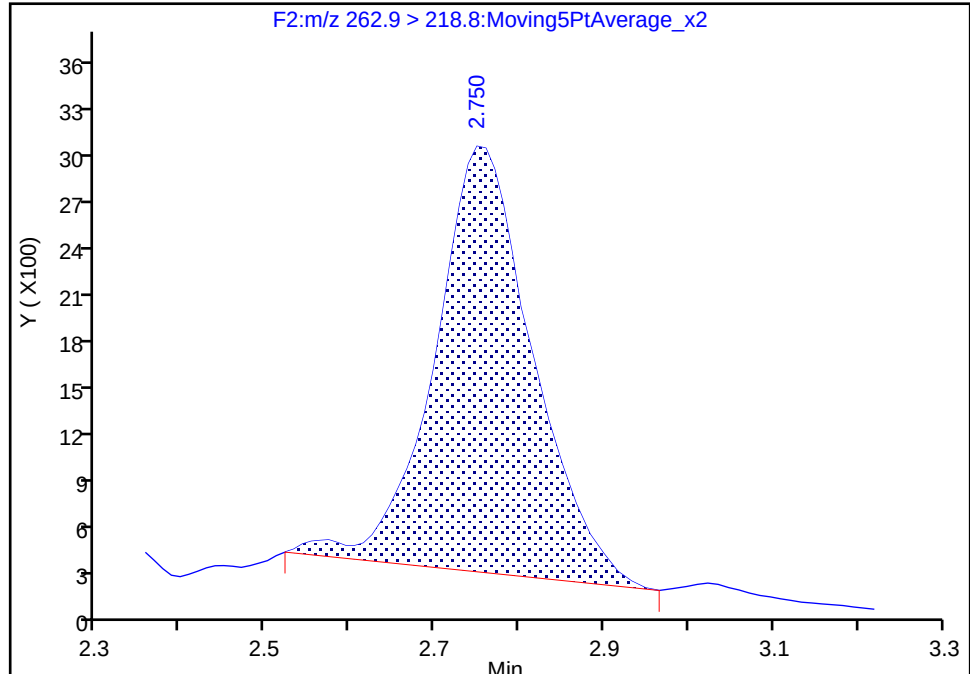
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A19.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 20:55:16                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-1-A                                                    | Lab Sample ID: | 200-165769-1 |                |    |
| Client ID:      | FSMW-14A 09262018                                                   |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 19 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

Signal: 1

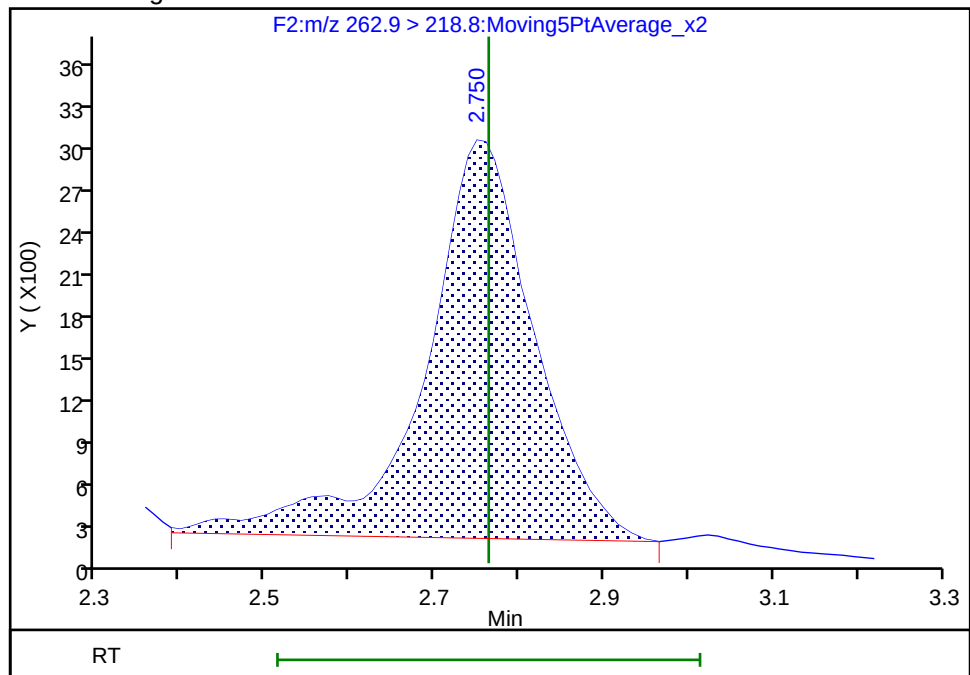
RT: 2.75  
Area: 21572  
Amount: 2.753595  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.75  
Area: 24862  
Amount: 3.173553  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:28:52  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

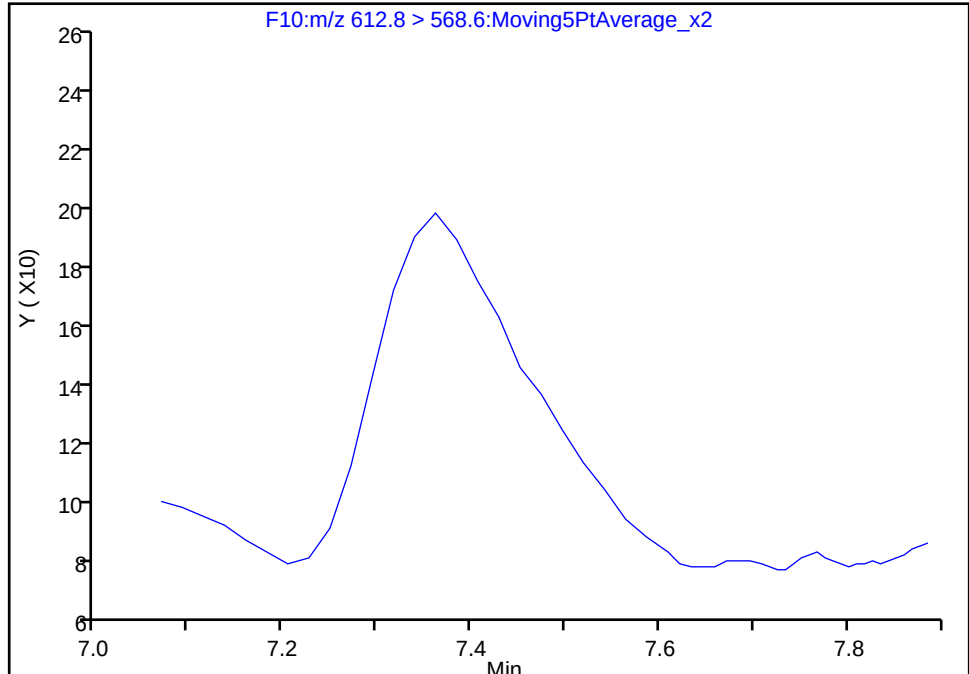
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A19.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 20:55:16                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-1-A                                                    | Lab Sample ID: | 200-165769-1 |                |    |
| Client ID:      | FSMW-14A 09262018                                                   |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 19 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**36 Perfluorododecanoic acid, CAS: 307-55-1**

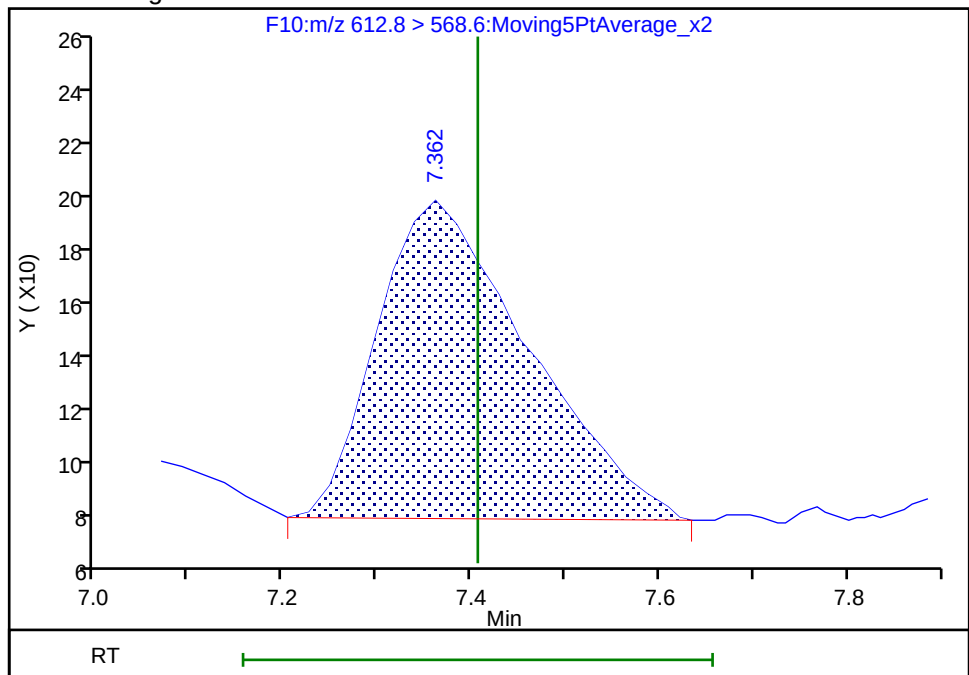
Signal: 1

Not Detected  
Expected RT: 7.41

## Processing Integration Results



## Manual Integration Results

RT: 7.36  
Area: 1322  
Amount: 0.071707  
Amount Units: ng/mlReviewer: chirgwinb, 13-Oct-2018 10:29:56  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

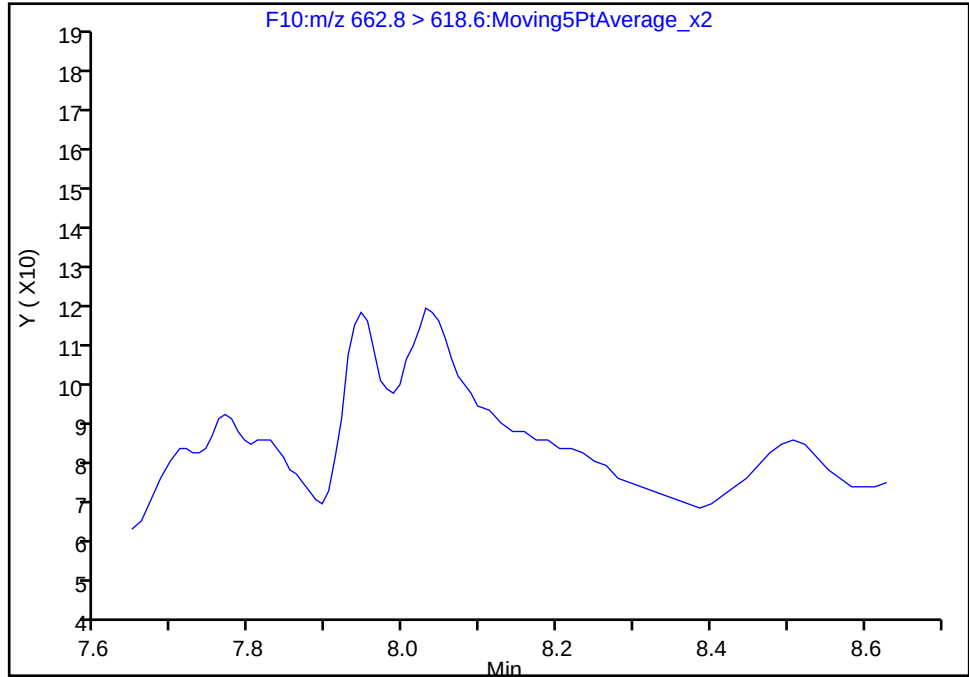
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A19.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 20:55:16                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-1-A                                                    | Lab Sample ID: | 200-165769-1 |                |    |
| Client ID:      | FSMW-14A 09262018                                                   |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 19 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

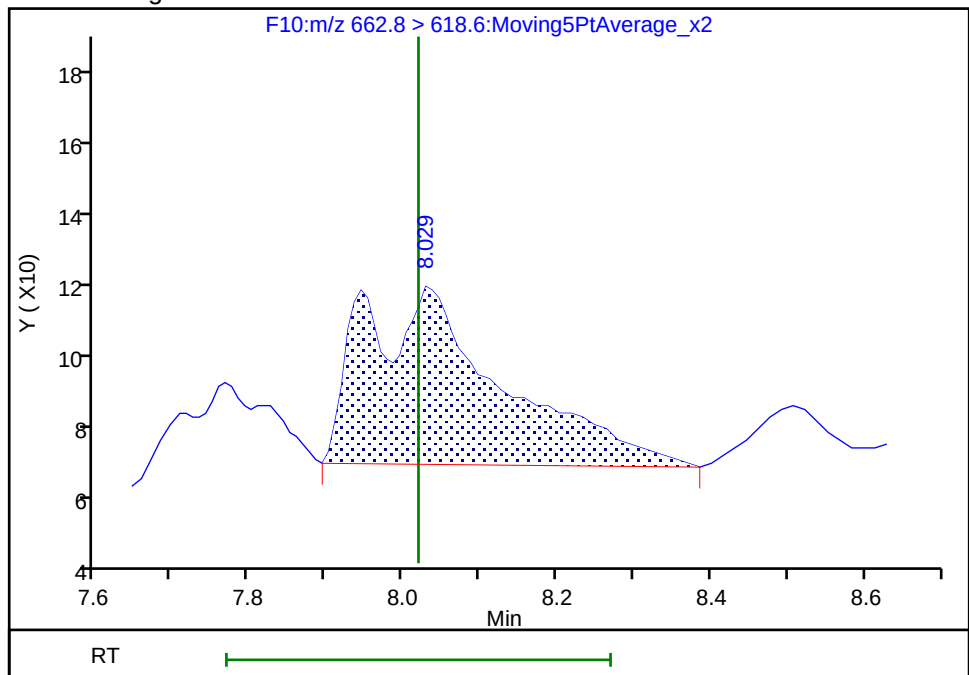
Signal: 1

Not Detected  
Expected RT: 8.02

## Processing Integration Results



## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:29:53

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

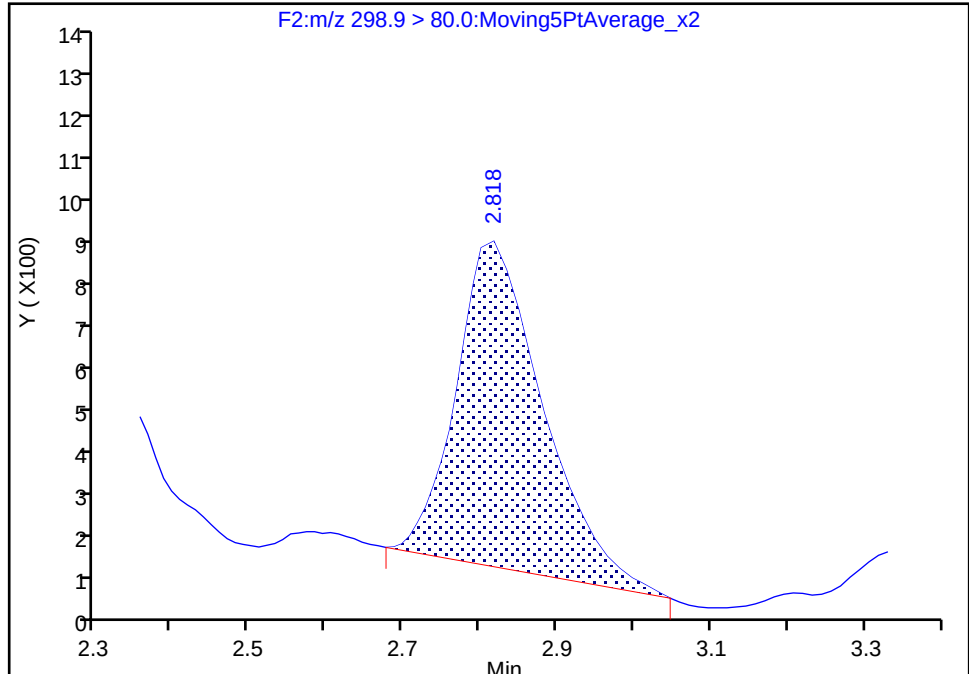
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A19.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 20:55:16                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-1-A                                                    | Lab Sample ID: | 200-165769-1 |                |    |
| Client ID:      | FSMW-14A 09262018                                                   |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 19 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector:      | F2:MRM       |                |    |

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

Signal: 1

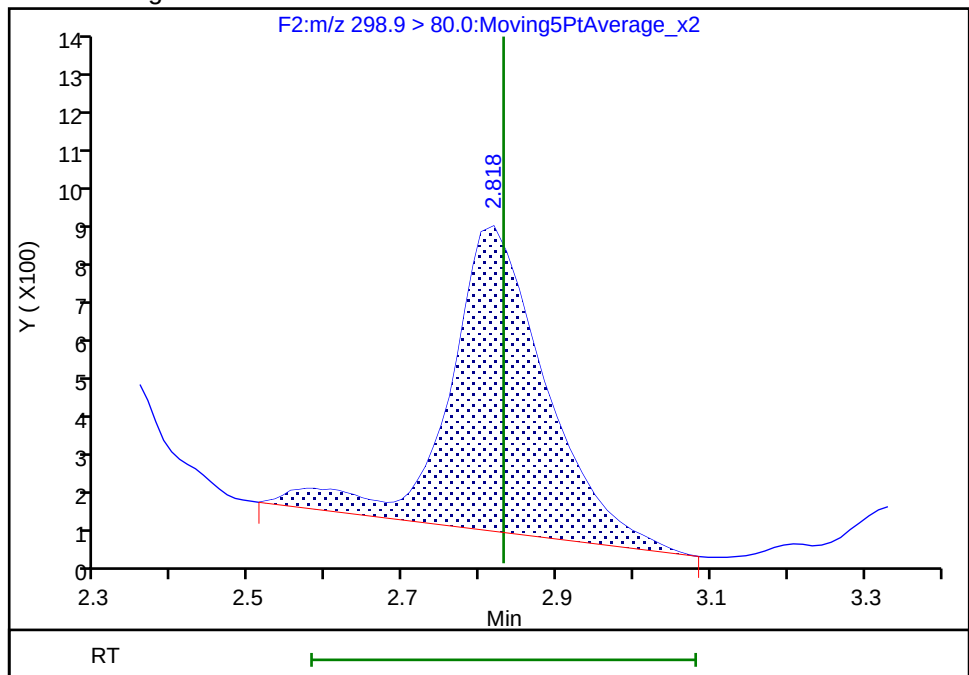
RT: 2.82  
Area: 5860  
Amount: 1.404368  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.82  
Area: 6814  
Amount: 1.632997  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:28:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

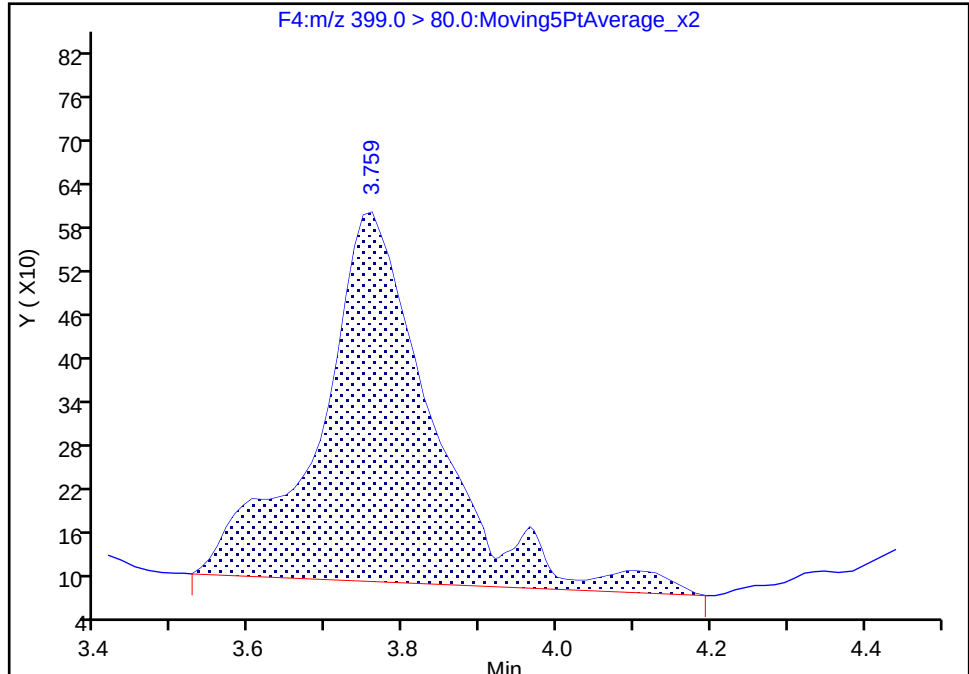
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A19.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 20:55:16                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-1-A                                                    | Lab Sample ID: | 200-165769-1 |                |    |
| Client ID:      | FSMW-14A 09262018                                                   |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 19 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F4:MRM       |                |    |

**12 Perfluorohexanesulfonic acid, CAS: 355-46-4**

Signal: 1

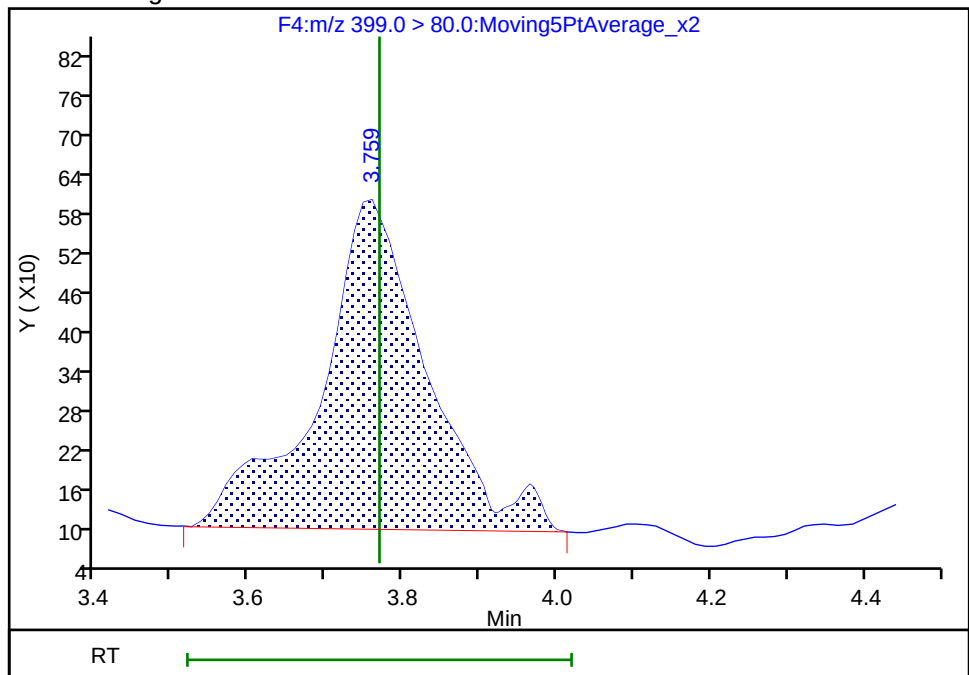
RT: 3.76  
Area: 5334  
Amount: 1.022684  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.76  
Area: 4929  
Amount: 0.945033  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:29:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

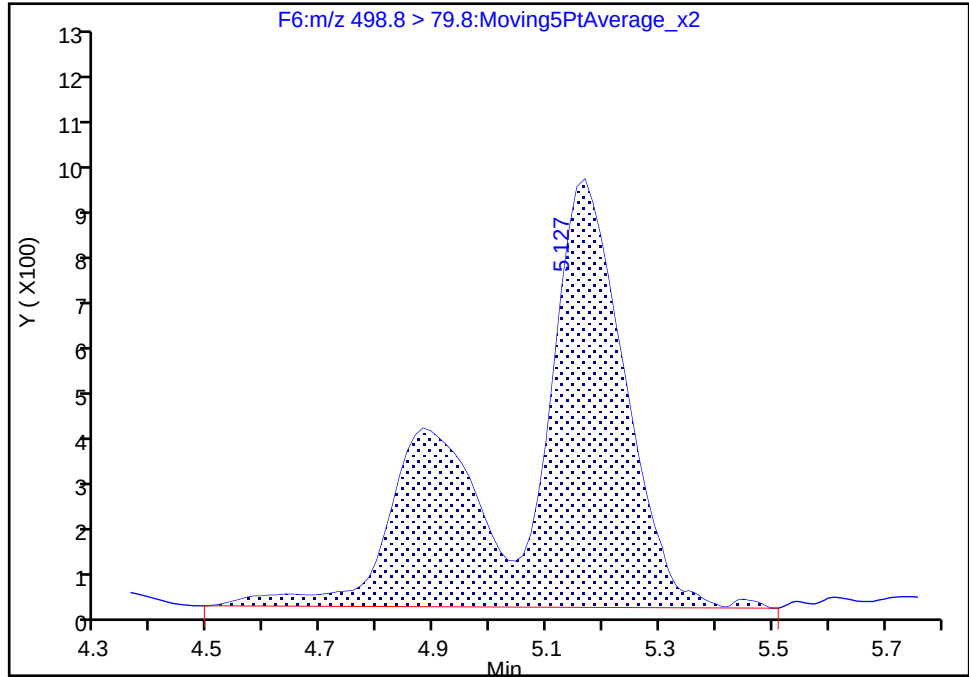
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A19.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 20:55:16                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-1-A                                                    | Lab Sample ID: | 200-165769-1 |                |    |
| Client ID:      | FSMW-14A 09262018                                                   |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 19 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F6:MRM       |                |    |

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

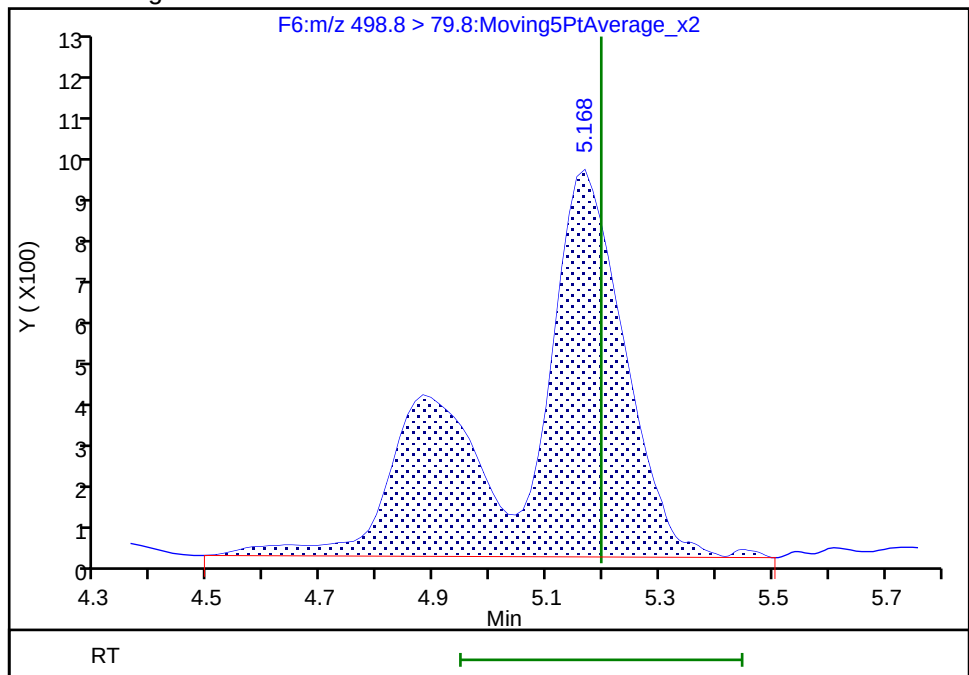
RT: 5.13  
Area: 12036  
Amount: 4.965909  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.17  
Area: 12037  
Amount: 4.966321  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:29:23  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

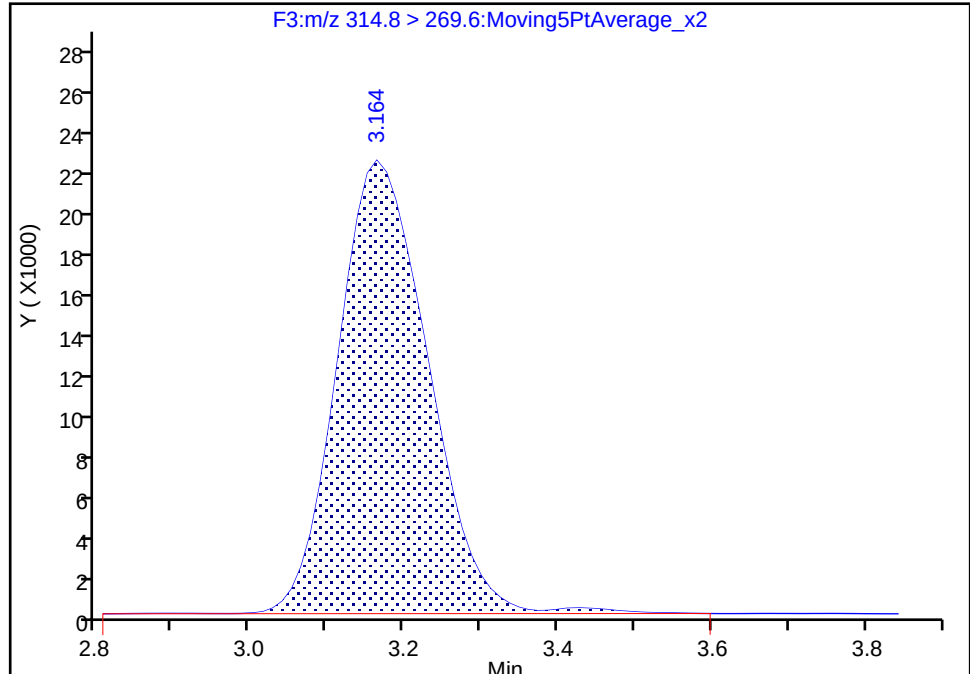
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A19.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 20:55:16                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-1-A                                                    | Lab Sample ID: | 200-165769-1 |                |    |
| Client ID:      | FSMW-14A 09262018                                                   |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 19 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F3:MRM       |                |    |

**D 7 13C2 PFHxA, CAS: STL00993**

Signal: 1

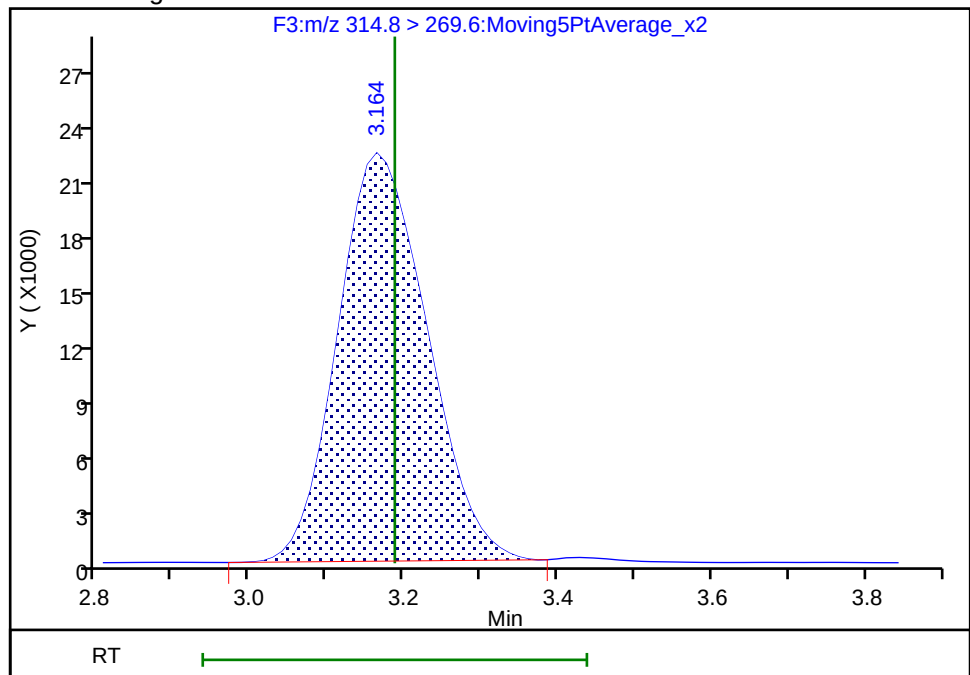
RT: 3.16  
Area: 181781  
Amount: 27.463143  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.16  
Area: 178136  
Amount: 26.912463  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:29:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: <u>EB1 092618</u>     | Lab Sample ID: <u>460-165769-4</u>         |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A20.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/26/2018 11:20</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>267.6 (mL)</u>        | Date Analyzed: <u>10/12/2018 21:11</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q   | RL   | MDL  |
|------------|----------------------------------------------------------|--------|-----|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 0.38   | U   | 1.87 | 0.38 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 0.70   | U   | 1.87 | 0.70 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 0.22   | U   | 1.87 | 0.22 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 0.30   | U   | 1.87 | 0.30 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 0.34   | J   | 1.87 | 0.30 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 0.36   | U   | 1.87 | 0.36 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 0.36   | U   | 1.87 | 0.36 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 0.24   | J B | 1.87 | 0.23 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 0.33   | U   | 1.87 | 0.33 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 0.22   | U   | 1.87 | 0.22 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 0.42   | U   | 1.87 | 0.42 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 0.41   | U   | 1.87 | 0.41 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 0.24   | U   | 1.87 | 0.24 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.77   | U   | 1.87 | 0.77 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 0.71   | U   | 1.87 | 0.71 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 0.50   | U   | 1.87 | 0.50 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 0.52   | U   | 1.87 | 0.52 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.42   | U   | 18.7 | 0.42 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.65   | U   | 18.7 | 0.65 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.93   | U   | 18.7 | 0.93 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.52   | U   | 18.7 | 0.52 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: <u>EB1 092618</u>     | Lab Sample ID: <u>460-165769-4</u>         |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A20.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/26/2018 11:20</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>267.6(mL)</u>         | Date Analyzed: <u>10/12/2018 21:11</u>     |
| Con. Extract Vol.: <u>0.5(mL)</u>       | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20(uL)</u>         | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 79   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 96   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 100  |   | 25-150 |
| STL00991 | 13C4 PFOS        | 72   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 104  |   | 25-150 |
| STL00992 | 13C4 PFBA        | 82   |   | 25-150 |
| STL00993 | 13C2 PFHxA       | 87   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 98   |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 103  |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 98   |   | 25-150 |
| STL01056 | 13C8 FOSA        | 54   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 80   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 64   |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 74   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 93   |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 105  |   | 25-150 |
| STL02280 | M2-8:2 FTS       | 105  |   | 25-150 |
| STL02337 | 13C3 PFBS        | 80   |   | 25-150 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d  
 Lims ID: 460-165769-E-4-A  
 Client ID: EB1 092618  
 Sample Type: Client  
 Inject. Date: 12-Oct-2018 21:11:06 ALS Bottle#: 0 Worklist Smp#: 20  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-020 4  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:43:45 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:32:38

| Signal                          | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                   |       |        |        |        |          |              |               |      |      |       |
| 216.9 > 171.5                   | 2.343 | 2.326  | 0.017  | 1.000  | 350132   | 40.9         |               | 81.8 | 386  |       |
| D 3 13C5 PFPeA                  |       |        |        |        |          |              |               |      |      |       |
| 267.7 > 222.6                   | 2.770 | 2.763  | 0.007  | 1.000  | 82126    | 40.0         |               | 80.0 | 312  |       |
| 4 Perfluoropentanoic acid       |       |        |        |        |          |              |               |      |      | M     |
| 262.9 > 218.8                   | 2.770 | 2.763  | 0.007  | 1.000  | 816      | 0.0734       |               |      | 2.2  | M     |
| D 6 13C3 PFBS                   |       |        |        |        |          |              |               |      |      |       |
| 302.0 > 79.8                    | 2.834 | 2.829  | 0.005  | 1.000  | 111581   | 37.2         |               | 79.9 | 496  |       |
| 5 Perfluorobutanesulfonic acid  |       |        |        |        |          |              |               |      |      | M     |
| 298.9 > 80.0                    | 2.801 | 2.830  | -0.029 | 0.988  | 520      | 0.1066       |               |      | 9.6  | M     |
| D 7 13C2 PFHxA                  |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                   | 3.189 | 3.188  | 0.001  | 1.000  | 272802   | 43.6         |               | 87.3 | 1829 |       |
| 8 Perfluorohexanoic acid        |       |        |        |        |          |              |               |      |      | M     |
| 312.8 > 268.6                   | 3.201 | 3.189  | 0.012  | 1.004  | 230      | 0.0397       |               |      | 3.6  | M     |
| D 9 13C4 PFHpA                  |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                   | 3.726 | 3.725  | 0.001  | 1.000  | 880101   | 48.1         |               | 96.2 | 1778 |       |
| 10 Perfluoroheptanoic acid      |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                   | 3.670 | 3.728  | -0.058 | 0.985  | 857      | 0.0484       |               |      | 3.8  |       |
| 12 Perfluorohexanesulfonic acid |       |        |        |        |          |              |               |      |      | M     |
| 399.0 > 80.0                    | 3.770 | 3.769  | 0.001  | 1.003  | 518      | 0.0966       |               |      | 4.0  | M     |
| D 11 18O2 PFHxS                 |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                    | 3.759 | 3.770  | -0.011 | 1.000  | 135883   | 37.5         |               | 79.4 | 337  |       |
| D 13 M2-6:2 FTS                 |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                   | 4.342 | 4.353  | -0.011 | 1.000  | 32885    | 49.8         |               | 105  | 140  |       |
| * 15 13C2 PFOA                  |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                   | 4.412 | 4.401  | 0.011  |        | 793503   | 50.0         |               |      | 2815 |       |
| D 17 13C4 PFOA                  |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                   | 4.412 | 4.407  | 0.005  | 1.000  | 737635   | 50.2         |               | 100  | 2725 |       |

| Signal                          | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|---------------------------------|-------|--------|--------|--------|----------|--------------|-----------------|------|------|-------|
| 16 Perfluorooctanoic acid       |       |        |        |        |          |              |                 |      |      | M     |
| 412.9 > 368.8                   | 4.412 | 4.409  | 0.003  | 1.000  | 2806     | 0.1817       |                 |      | 31.5 | M     |
| D 20 13C5 PFNA                  |       |        |        |        |          |              |                 |      |      |       |
| 467.8 > 422.8                   | 5.168 | 5.171  | -0.003 | 1.000  | 974598   | 51.9         |                 | 104  | 3260 |       |
| D 22 13C4 PFOS                  |       |        |        |        |          |              |                 |      |      |       |
| 502.8 > 79.8                    | 5.195 | 5.195  | 0.0    | 1.000  | 105115   | 34.6         |                 | 72.5 | 555  |       |
| D 24 M2-8:2 FTS                 |       |        |        |        |          |              |                 |      |      |       |
| 528.8 > 508.8                   | 5.926 | 5.929  | -0.003 | 1.000  | 250763   | 50.5         |                 | 105  | 1224 |       |
| D 26 13C2 PFDA                  |       |        |        |        |          |              |                 |      |      |       |
| 514.9 > 469.5                   | 5.950 | 5.950  | 0.0    | 1.000  | 1011152  | 49.1         |                 | 98.2 | 3422 |       |
| D 27 d3-NMeFOSAA                |       |        |        |        |          |              |                 |      |      |       |
| 572.8 > 418.8                   | 6.295 | 6.311  | -0.016 | 1.000  | 214536   | 37.0         |                 | 74.0 | 583  |       |
| D 29 d5-NEtFOSAA                |       |        |        |        |          |              |                 |      |      |       |
| 588.9 > 418.8                   | 6.670 | 6.674  | -0.004 | 1.000  | 234489   | 46.5         |                 | 93.1 | 1186 |       |
| 31 Perfluorodecanesulfonic acid |       |        |        |        |          |              |                 |      |      | M     |
| 598.8 > 79.8                    | 6.490 | 6.706  | -0.216 | 1.249  | 306      | 0.1221       |                 |      | 2.1  | M     |
| D 32 13C2 PFUnA                 |       |        |        |        |          |              |                 |      |      |       |
| 564.8 > 519.8                   | 6.706 | 6.720  | -0.014 | 1.000  | 1213059  | 51.4         |                 | 103  | 3982 |       |
| 33 Perfluoroundecanoic acid     |       |        |        |        |          |              |                 |      |      | M     |
| 562.8 > 518.6                   | 6.721 | 6.720  | 0.001  | 1.002  | 2778     | 0.1293       |                 |      | 28.4 | M     |
| D 35 13C8 FOSA                  |       |        |        |        |          |              |                 |      |      |       |
| 505.8 > 77.8                    | 6.973 | 6.973  | 0.0    | 1.000  | 145980   | 27.1         |                 | 54.2 | 535  |       |
| D 37 13C2 PFDaA                 |       |        |        |        |          |              |                 |      |      |       |
| 614.8 > 569.6                   | 7.384 | 7.402  | -0.018 | 1.000  | 1271215  | 49.1         |                 | 98.3 | 4301 |       |
| 36 Perfluorododecanoic acid     |       |        |        |        |          |              |                 |      |      | M     |
| 612.8 > 568.6                   | 7.452 | 7.407  | 0.045  | 1.009  | 921      | 0.0419       |                 |      | 5.8  | M     |
| 38 Perfluorotridecanoic acid    |       |        |        |        |          |              |                 |      |      | M     |
| 662.8 > 618.6                   | 8.004 | 8.020  | -0.016 | 0.935  | 452      | 0.0303       |                 |      | 3.3  | M     |
| D 40 13C2 PFTeDA                |       |        |        |        |          |              |                 |      |      |       |
| 714.8 > 669.6                   | 8.560 | 8.563  | -0.003 | 1.000  | 800885   | 31.9         |                 | 63.7 | 801  |       |
| 39 Perfluorotetradecanoic acid  |       |        |        |        |          |              |                 |      |      | M     |
| 712.8 > 668.6                   | 8.499 | 8.567  | -0.068 | 0.993  | 163      | 0.0104       |                 |      | 1.2  | M     |
| 712.8 > 168.8                   | 8.560 | 8.567  | -0.007 | 0.000  | 0        |              | 0.00(0.00-0.00) |      |      |       |
| 712.8 > 218.8                   | 8.560 | 8.567  | -0.007 | 0.000  | 0        |              | 0.00(0.00-0.00) |      |      |       |

## QC Flag Legend

Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d

Injection Date: 12-Oct-2018 21:11:06

Instrument ID: LC410

Lims ID: 460-165769-E-4-A

Lab Sample ID: 200-165769-4

Client ID: EB1 092618

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

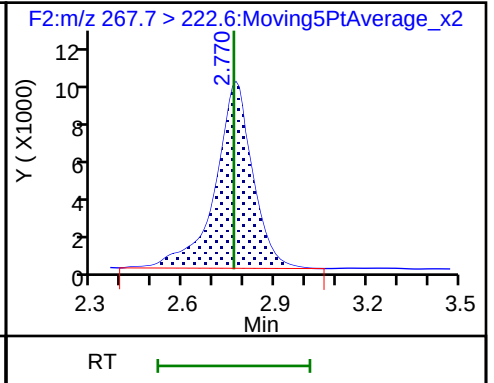
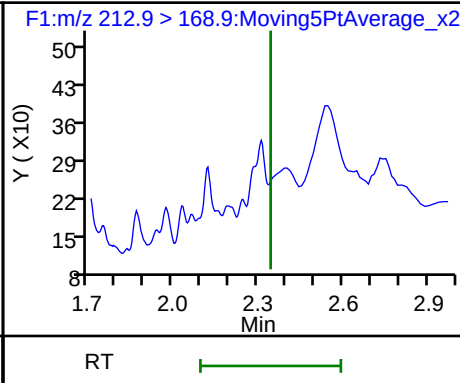
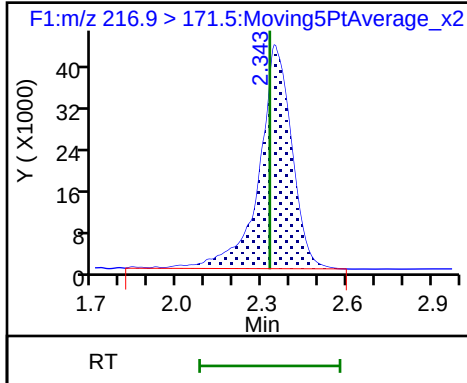
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (ND)

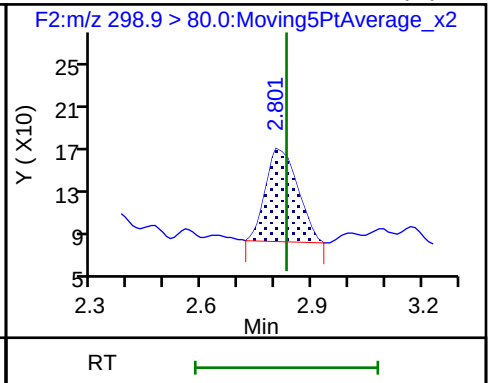
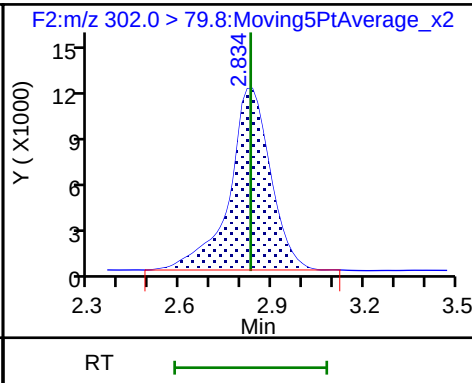
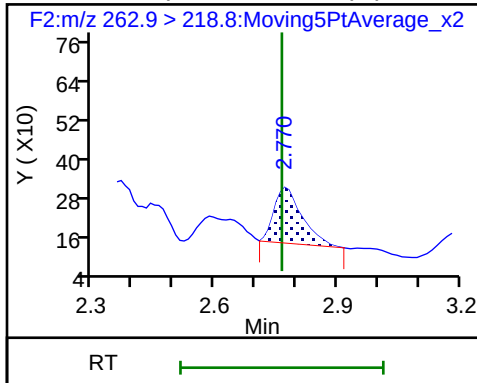
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS

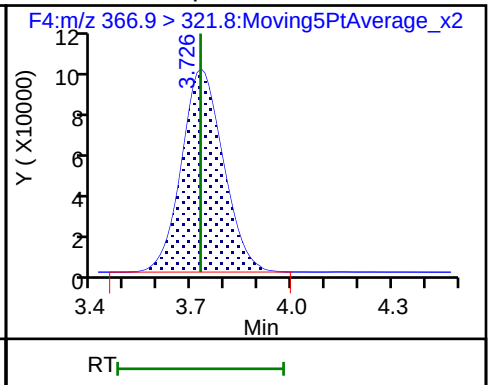
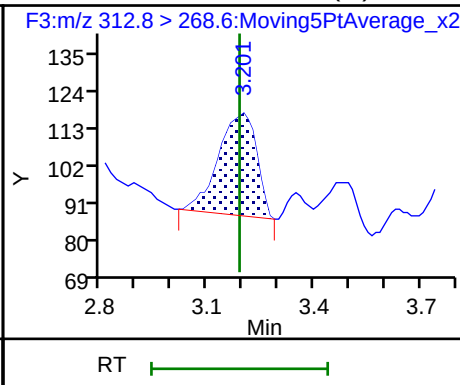
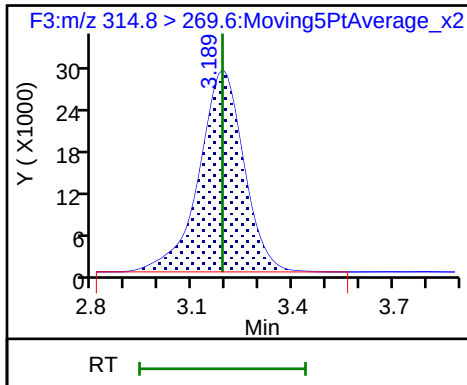
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid (M)

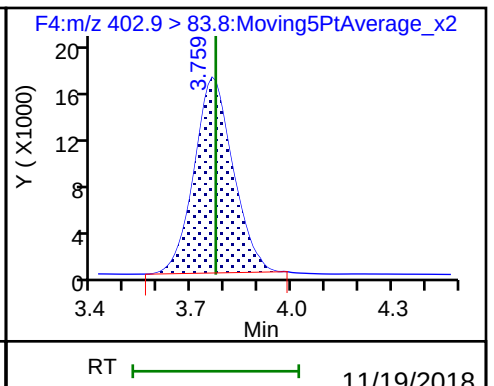
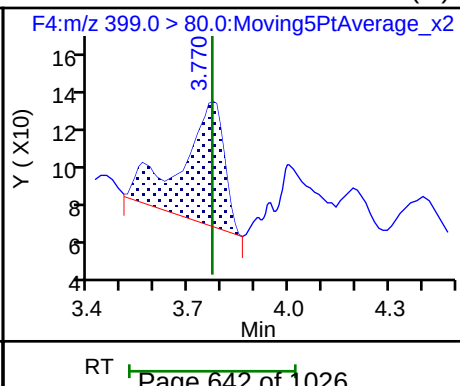
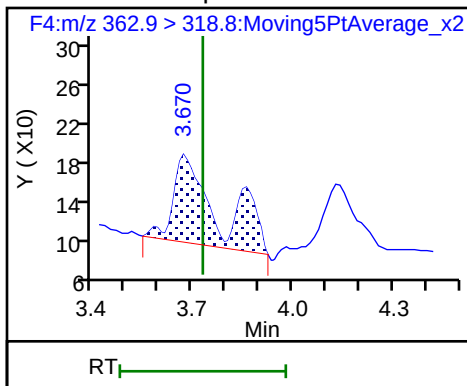
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid (M)

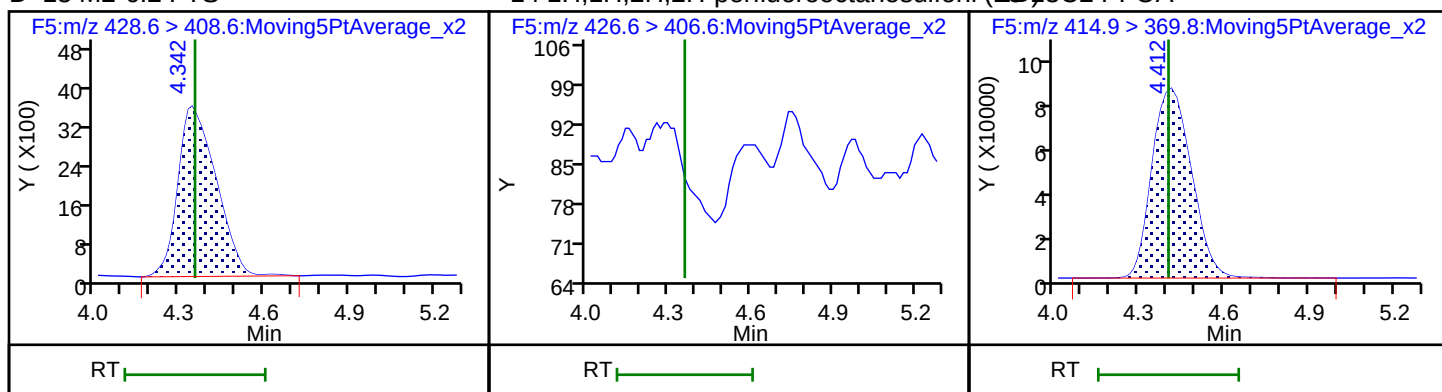
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate (ND)

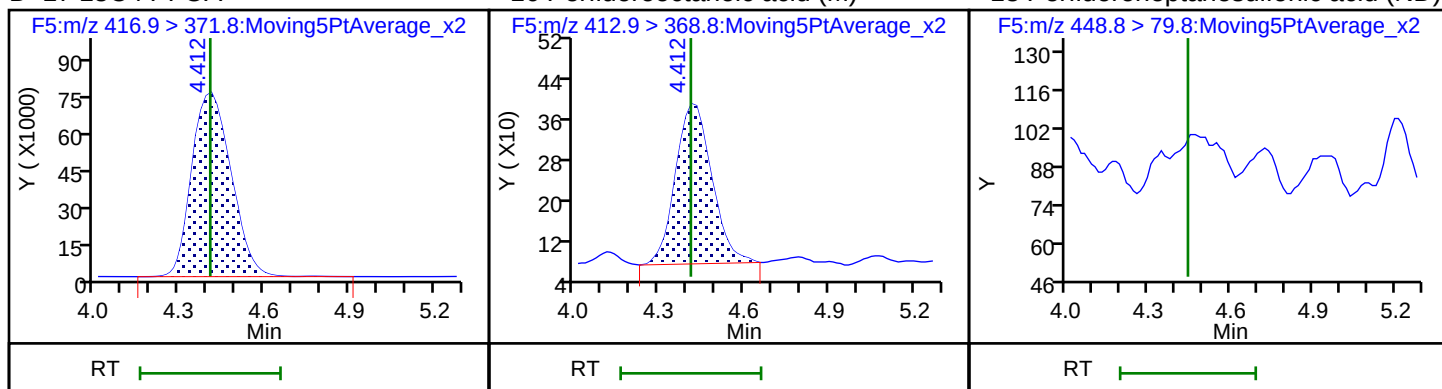
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid (M)

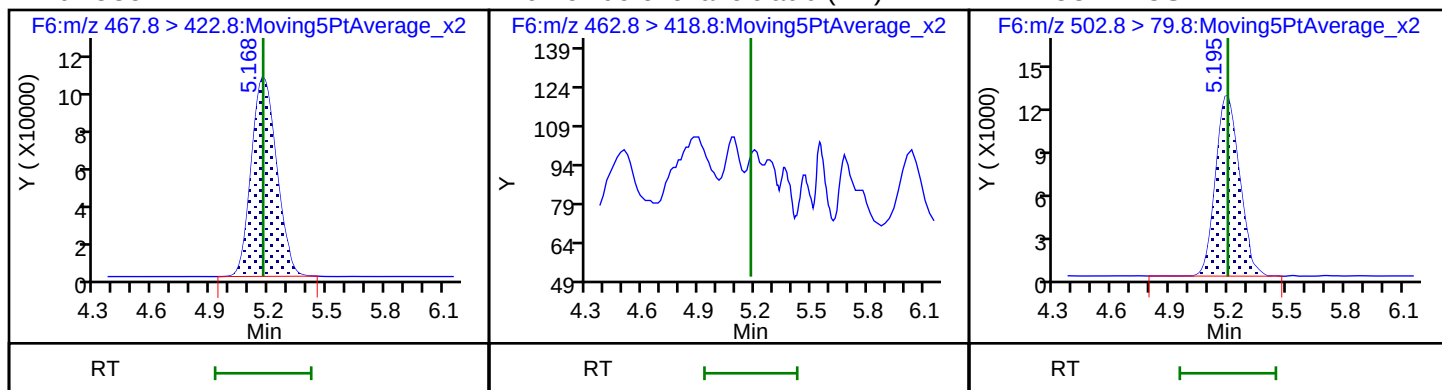
18 Perfluoroheptanesulfonic acid (ND)



D 20 13C5 PFNA

19 Perfluorononanoic acid (ND)

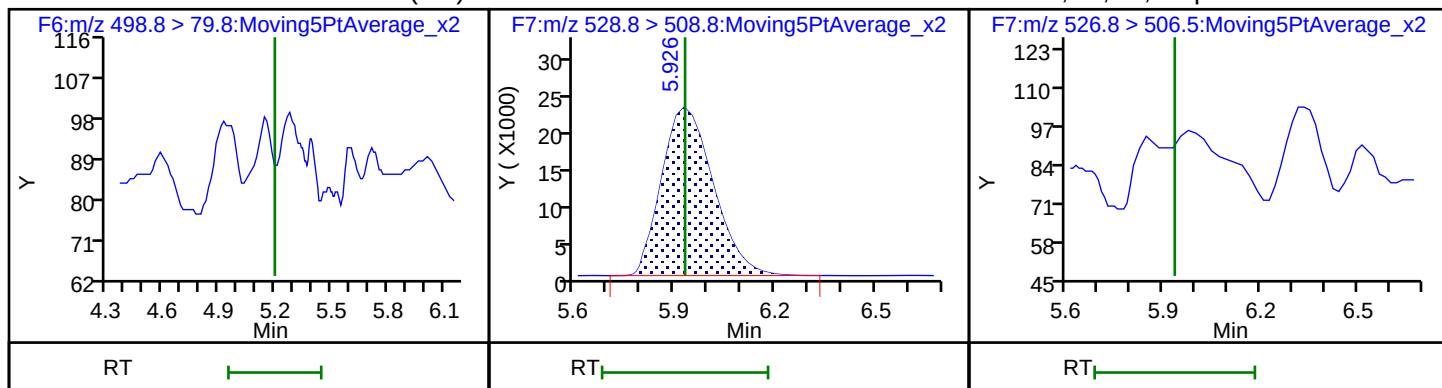
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (ND)

D 24 M2-8:2 FTS

23 1H,1H,2H,2H-perfluorodecanesulfonate (ND)

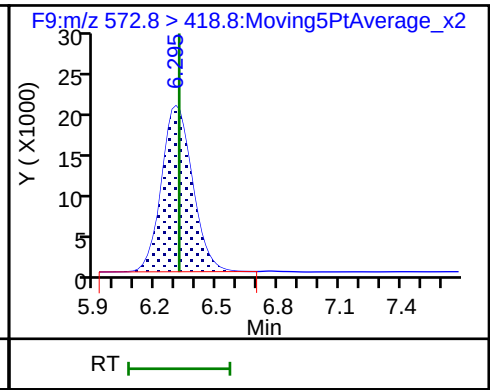
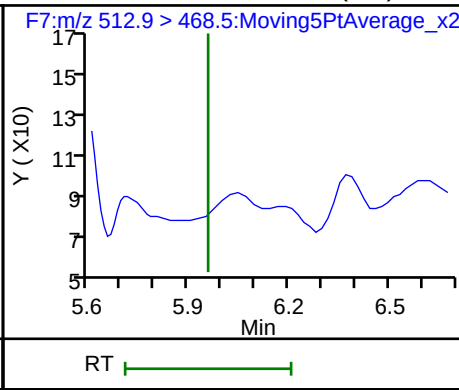
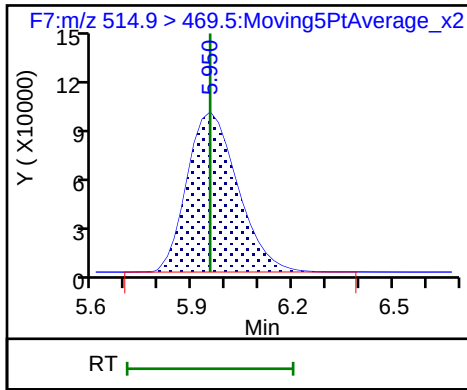




D 26 13C2 PFDA

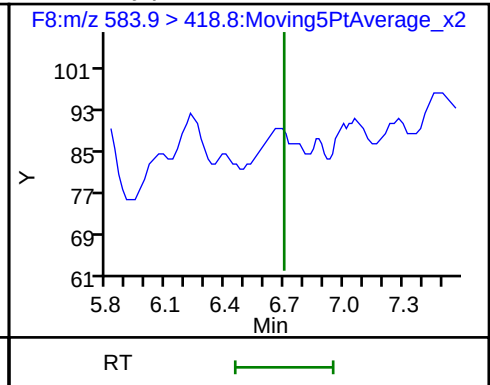
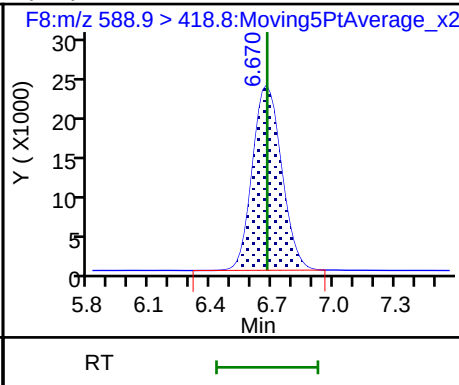
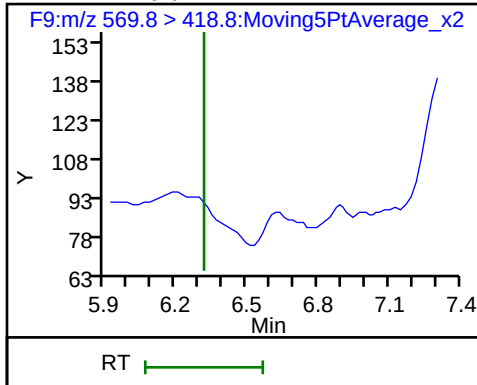
25 Perfluorodecanoic acid (ND)

D 27 d3-NMeFOSAA



28 N-methylperfluorooctanesulfonamide (ND)

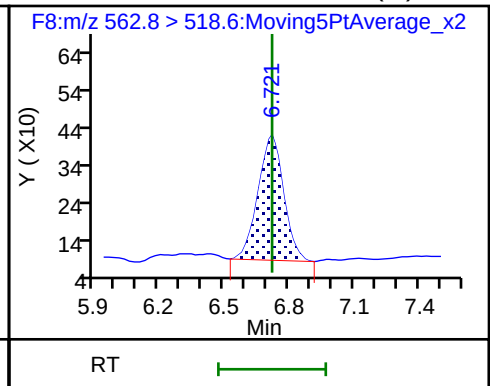
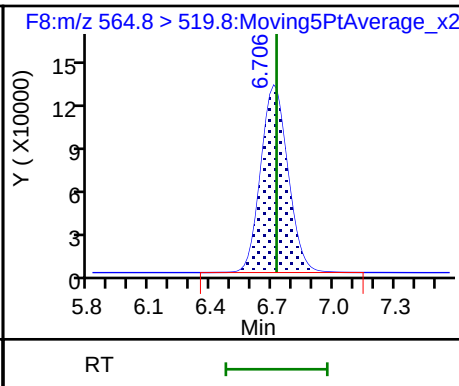
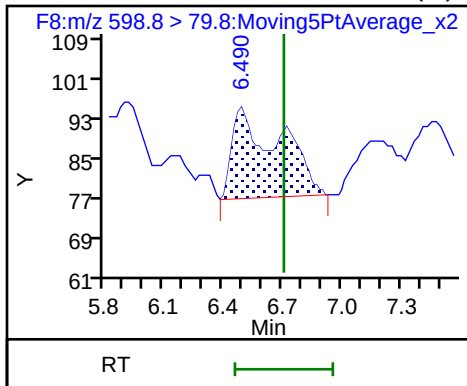
30 N-ethylperfluorooctanesulfonamide (ND)



31 Perfluorodecanesulfonic acid (M)

D 32 13C2 PFUnA

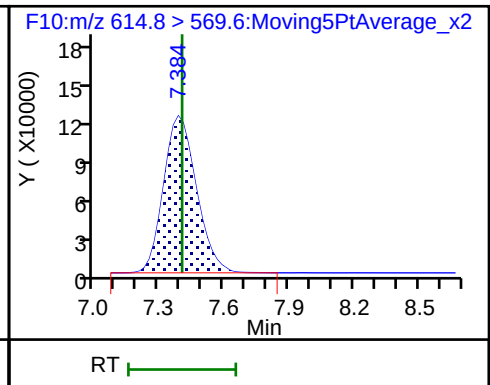
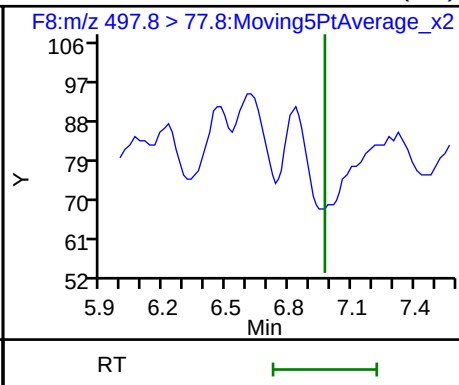
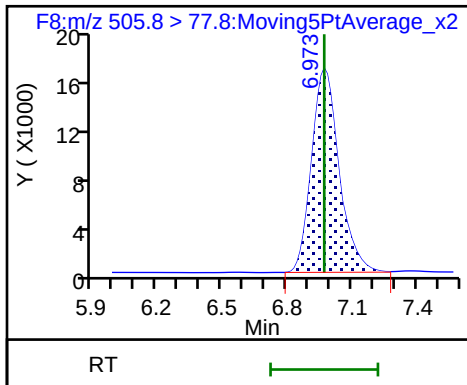
33 Perfluoroundecanoic acid (M)



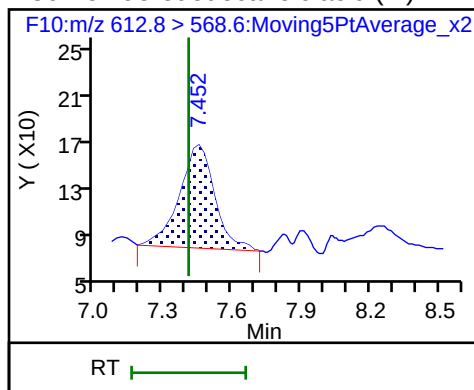
D 35 13C8 FOSA

34 Perfluorooctanesulfonamide (ND)

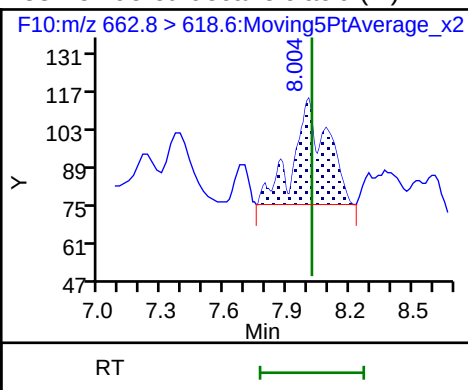
D 37 13C2 PFDaA



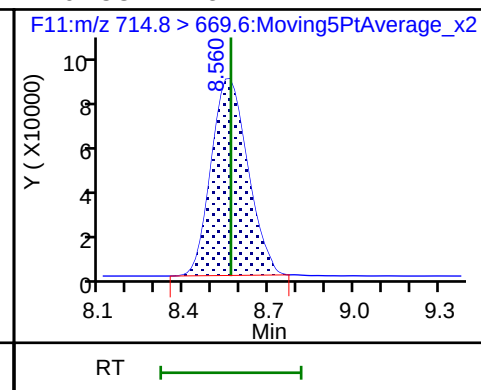
## 36 Perfluorododecanoic acid (M)



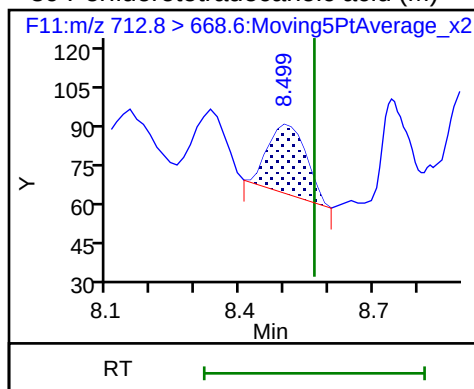
## 38 Perfluorotridecanoic acid (M)



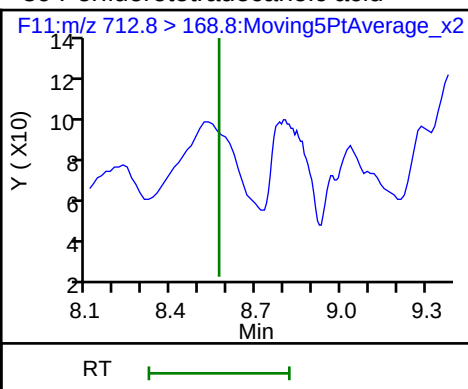
## D 40 13C2 PFTeDA



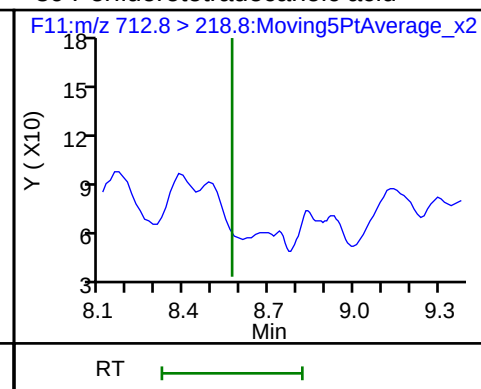
## 39 Perfluorotetradecanoic acid (M)



## 39 Perfluorotetradecanoic acid



## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

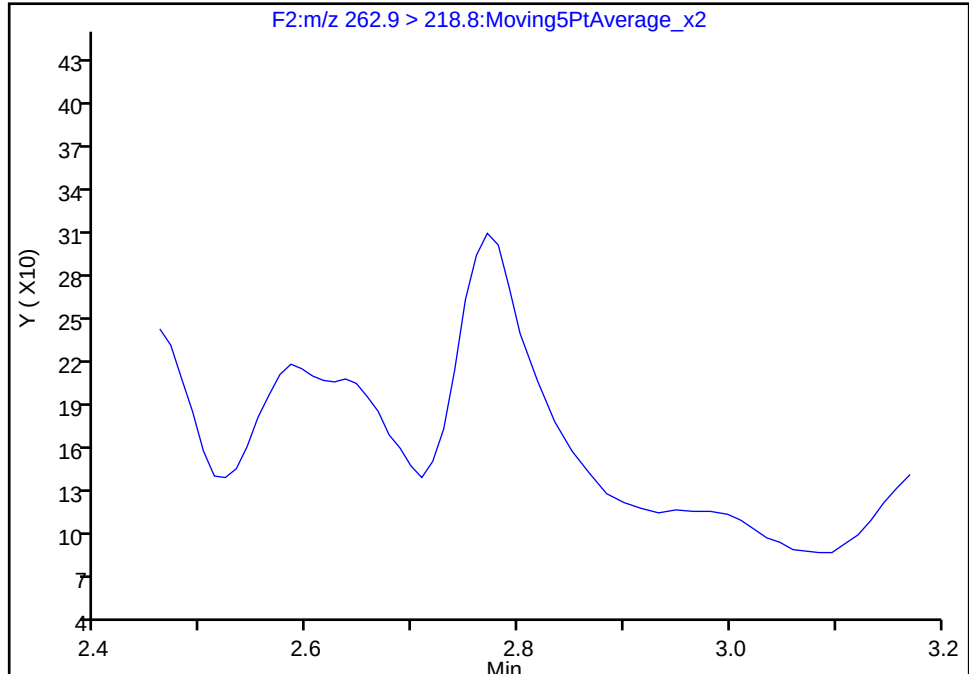
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|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:11:06                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-4-A                                                    | Lab Sample ID: | 200-165769-4 |                |    |
| Client ID:      | EB1 092618                                                          |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 20 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

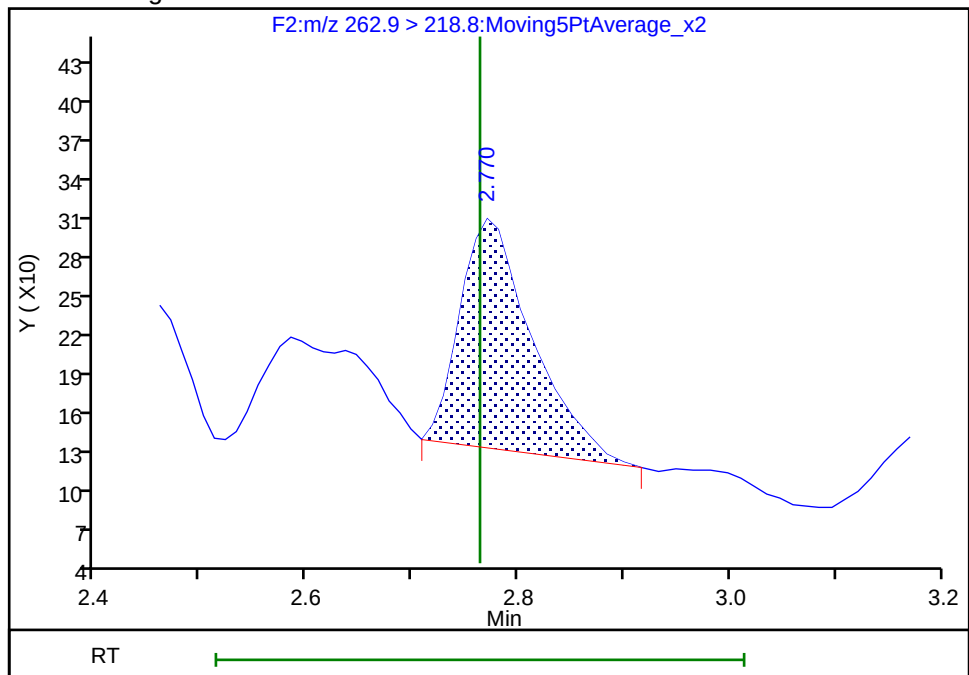
Signal: 1

Not Detected  
Expected RT: 2.76

## Processing Integration Results

RT: 2.77  
Area: 816  
Amount: 0.073367  
Amount Units: ng/ml

## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:32:32  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

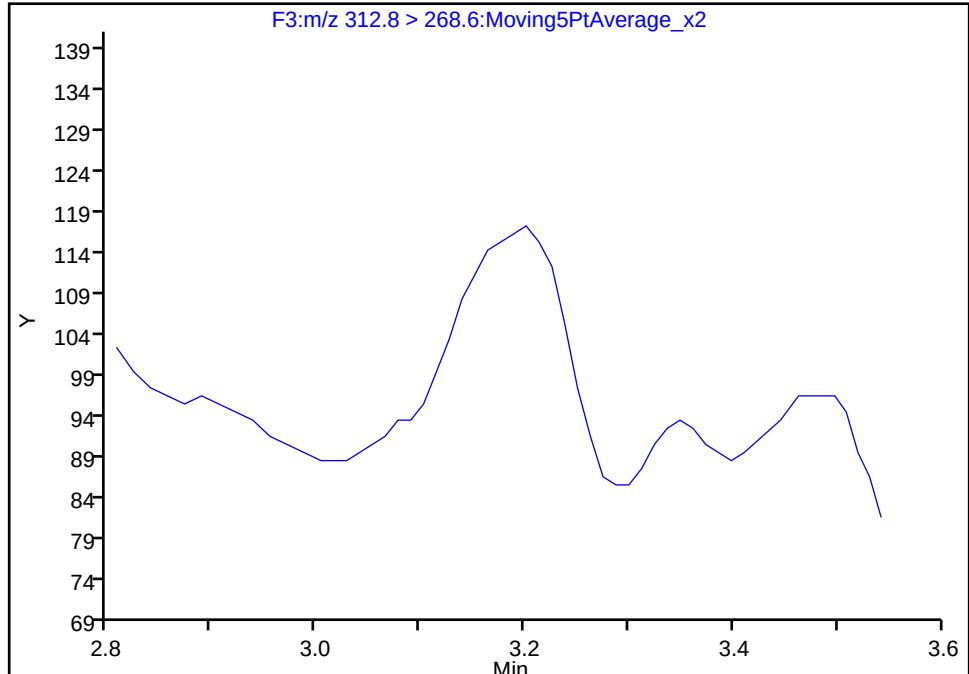
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| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:11:06                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-4-A                                                    | Lab Sample ID: | 200-165769-4 |                |    |
| Client ID:      | EB1 092618                                                          |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 20 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F3:MRM       |                |    |

**8 Perfluorohexanoic acid, CAS: 307-24-4**

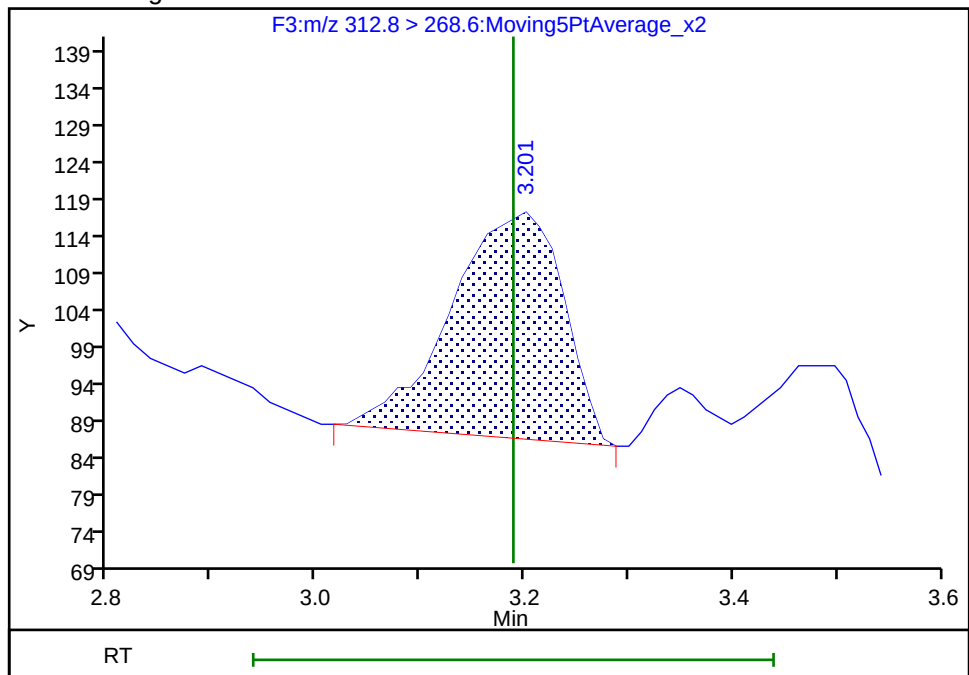
Signal: 1

Not Detected  
Expected RT: 3.19

## Processing Integration Results



## Manual Integration Results

RT: 3.20  
Area: 230  
Amount: 0.039665  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:32:21

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

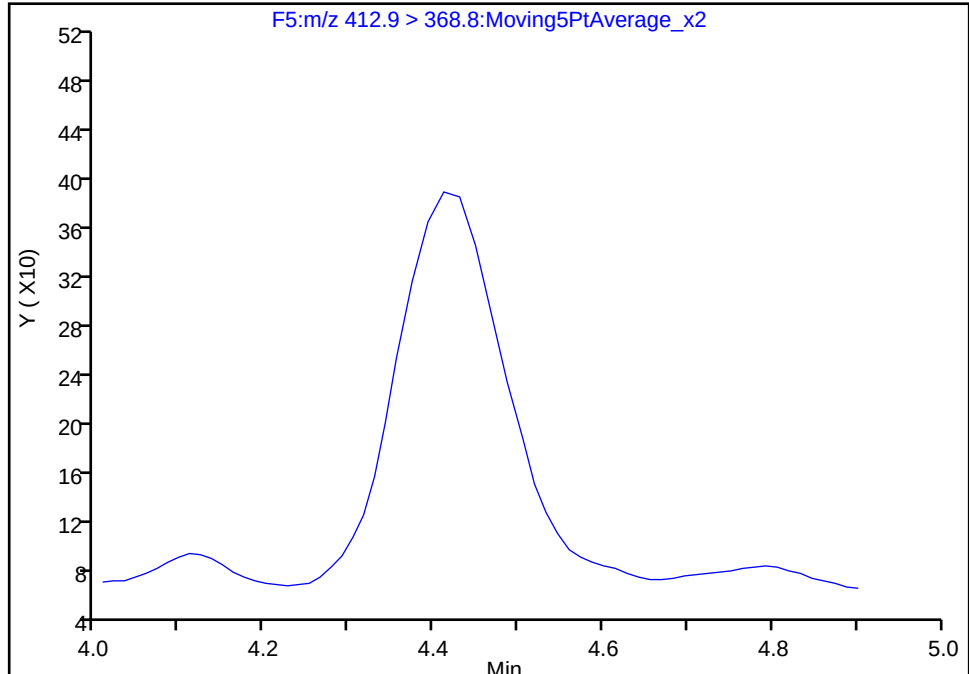
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| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:11:06                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-4-A                                                    | Lab Sample ID: | 200-165769-4 |                |    |
| Client ID:      | EB1 092618                                                          |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 20 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F5:MRM       |                |    |

**16 Perfluorooctanoic acid, CAS: 335-67-1**

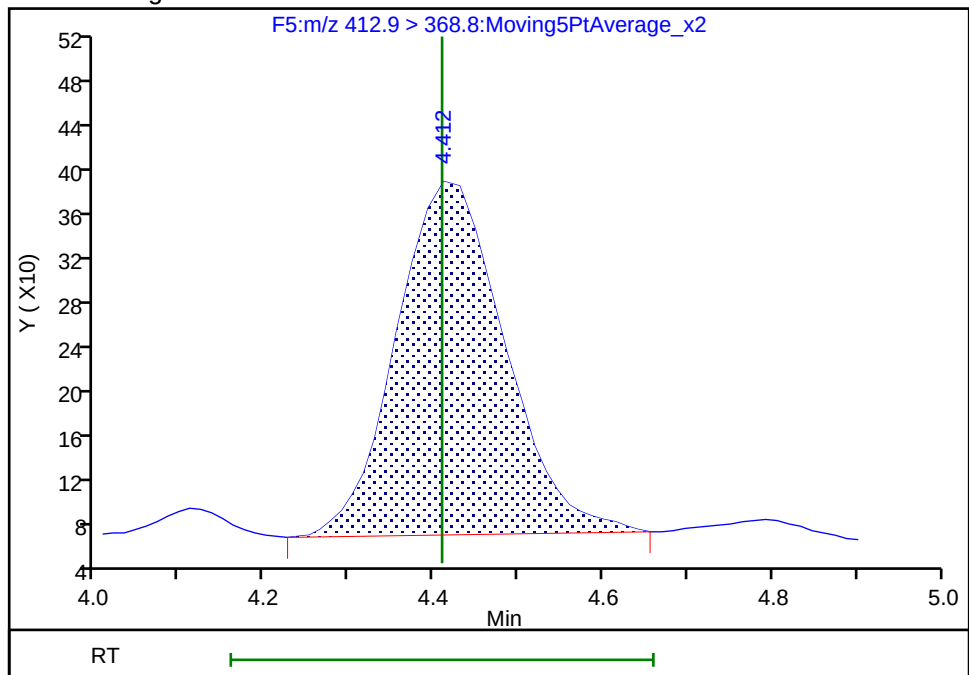
Signal: 1

Not Detected  
Expected RT: 4.41

## Processing Integration Results



## Manual Integration Results

RT: 4.41  
Area: 2806  
Amount: 0.181699  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:32:05

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d

Injection Date: 12-Oct-2018 21:11:06

Instrument ID: LC410

Lims ID: 460-165769-E-4-A

Lab Sample ID: 200-165769-4

Client ID: EB1 092618

Operator ID: BC

ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

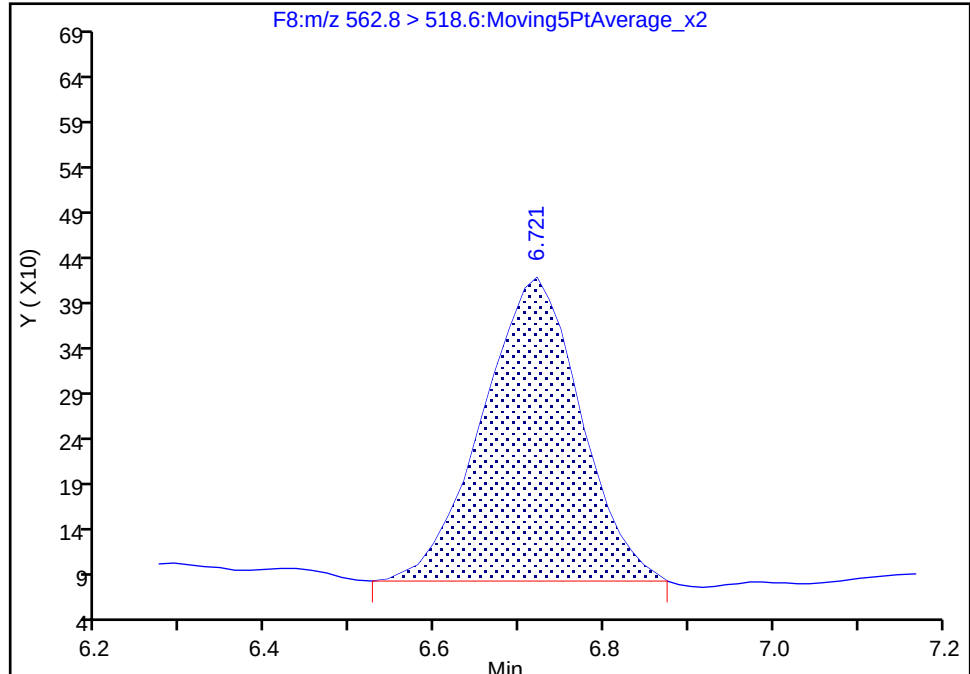
Detector F8:MRM

**33 Perfluoroundecanoic acid, CAS: 2058-94-8**

Signal: 1

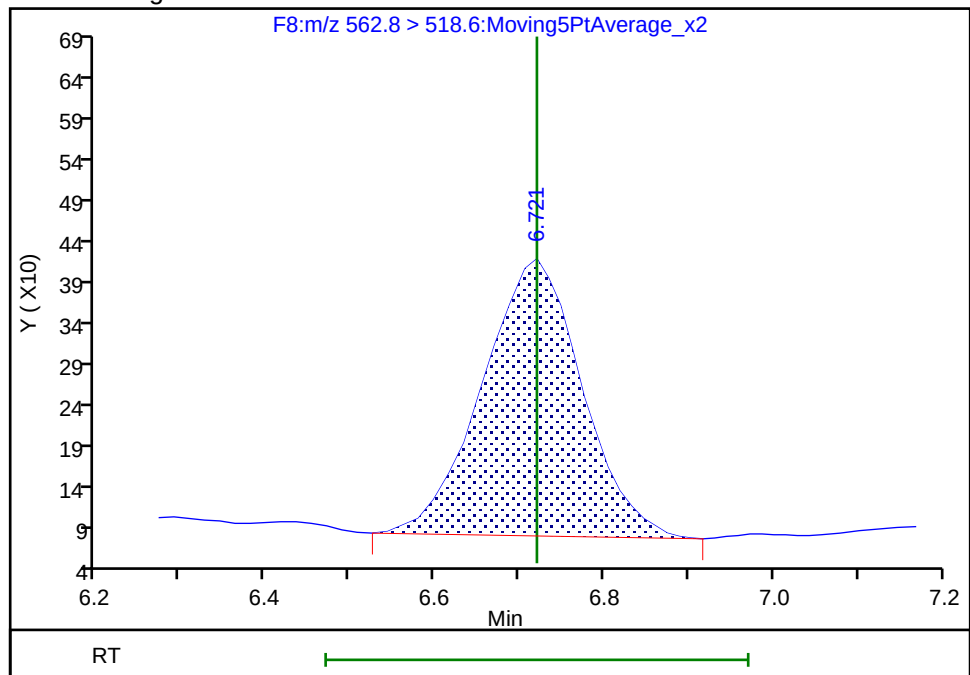
RT: 6.72  
Area: 2707  
Amount: 0.125947  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.72  
Area: 2778  
Amount: 0.129251  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:31:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

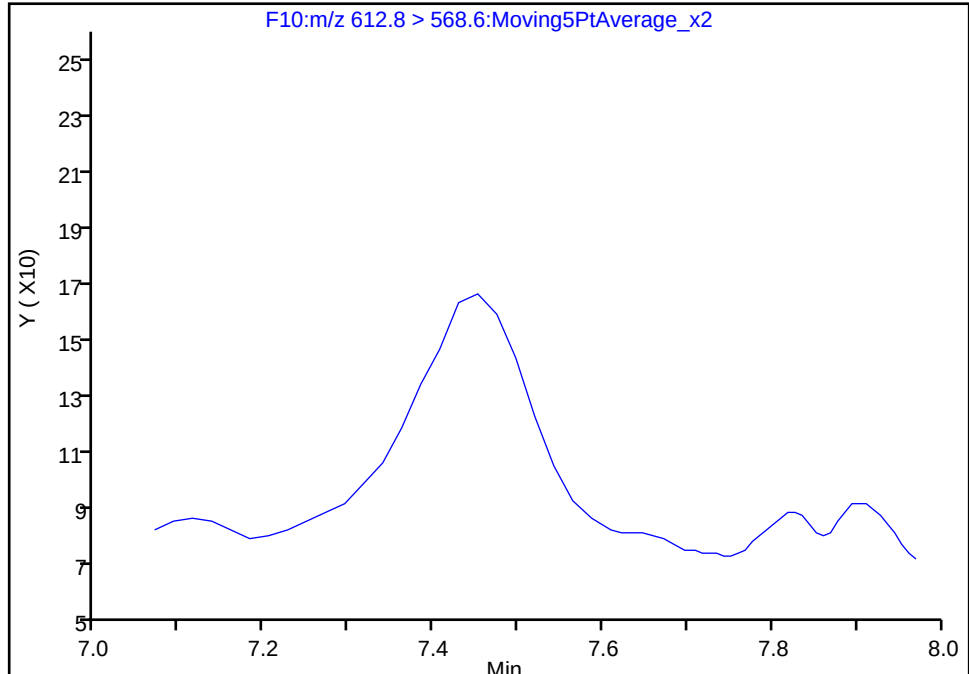
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:11:06                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-4-A                                                    | Lab Sample ID: | 200-165769-4 |                |    |
| Client ID:      | EB1 092618                                                          |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 20 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**36 Perfluorododecanoic acid, CAS: 307-55-1**

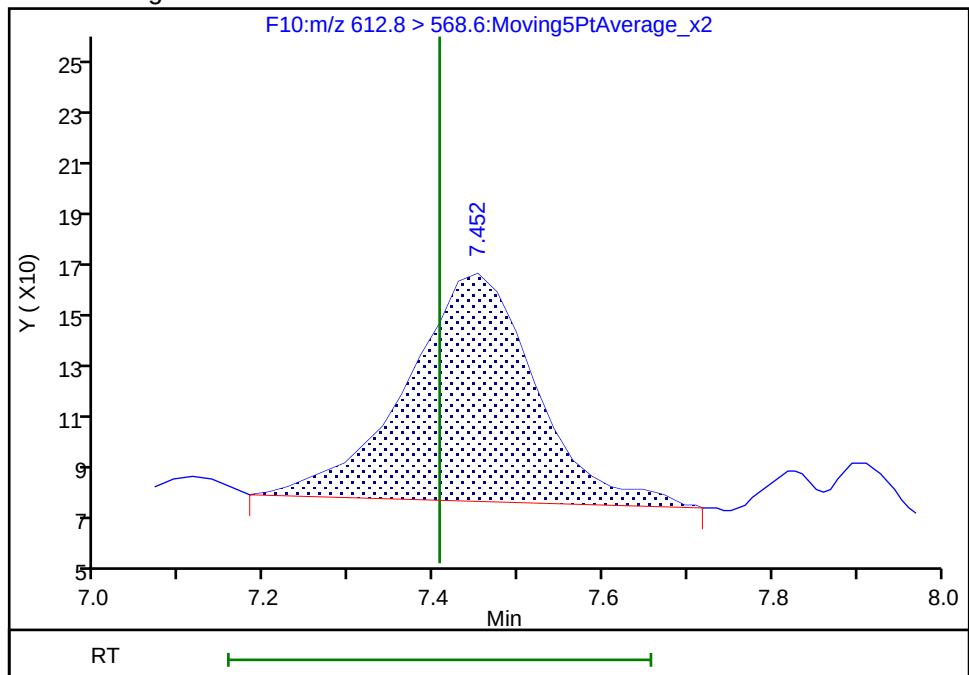
Signal: 1

Not Detected  
Expected RT: 7.41

## Processing Integration Results

RT: 7.45  
Area: 921  
Amount: 0.041881  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:31:37

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

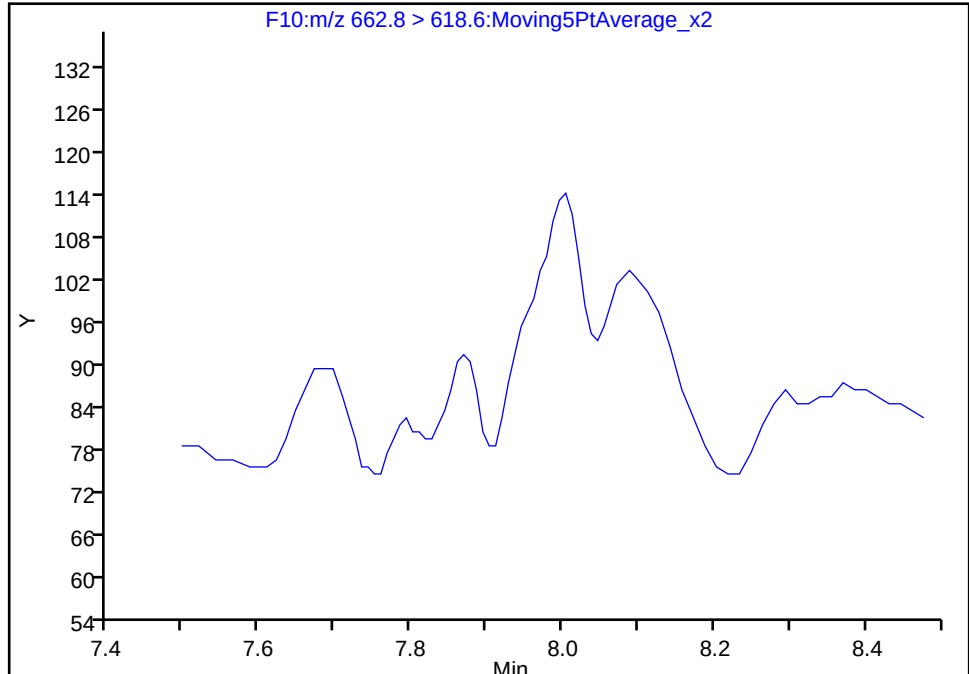
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:11:06                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-4-A                                                    | Lab Sample ID: | 200-165769-4 |                |    |
| Client ID:      | EB1 092618                                                          |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 20 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

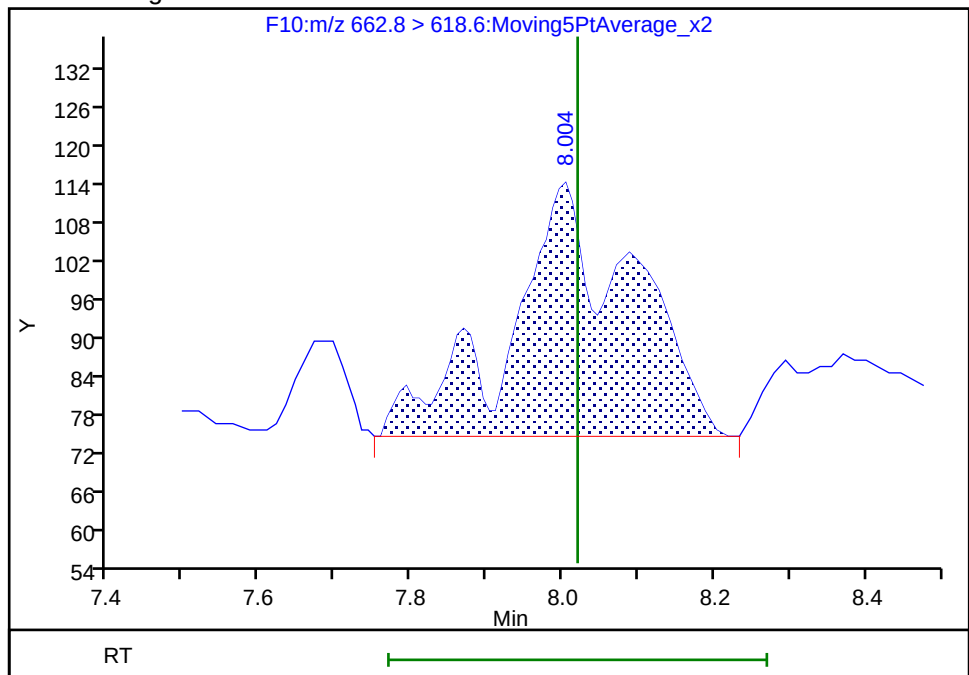
Signal: 1

Not Detected  
Expected RT: 8.02

## Processing Integration Results

RT: 8.00  
Area: 452  
Amount: 0.030323  
Amount Units: ng/ml

## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:31:33  
Audit Action: Manually Integrated

Audit Reason: Missed Peak



## TestAmerica Burlington

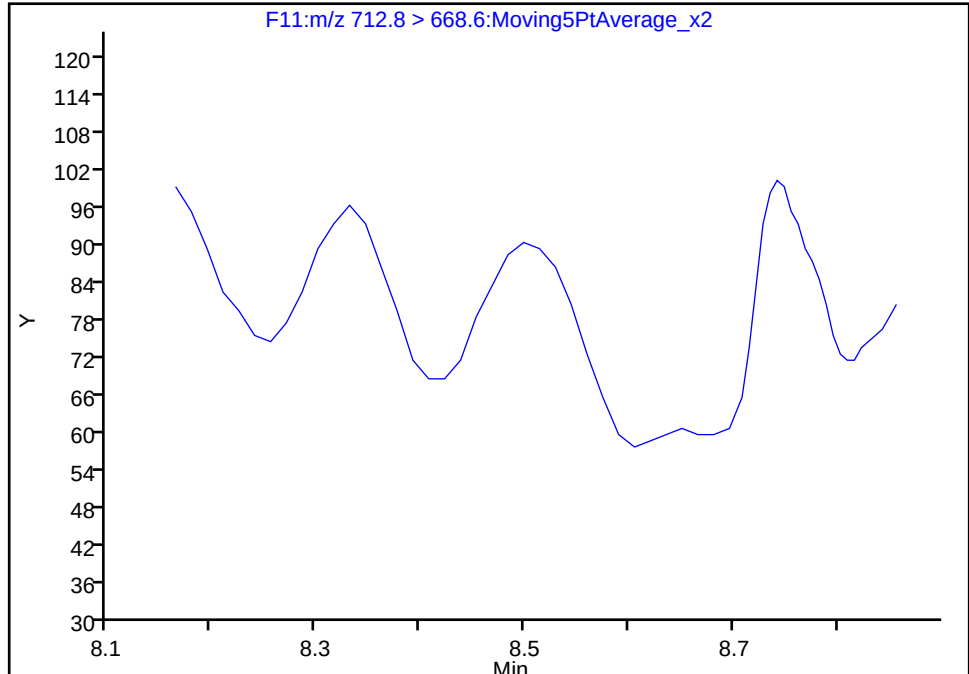
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:11:06                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-4-A                                                    | Lab Sample ID: | 200-165769-4 |                |    |
| Client ID:      | EB1 092618                                                          |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 20 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F11:MRM      |                |    |

**39 Perfluorotetradecanoic acid, CAS: 376-06-7**

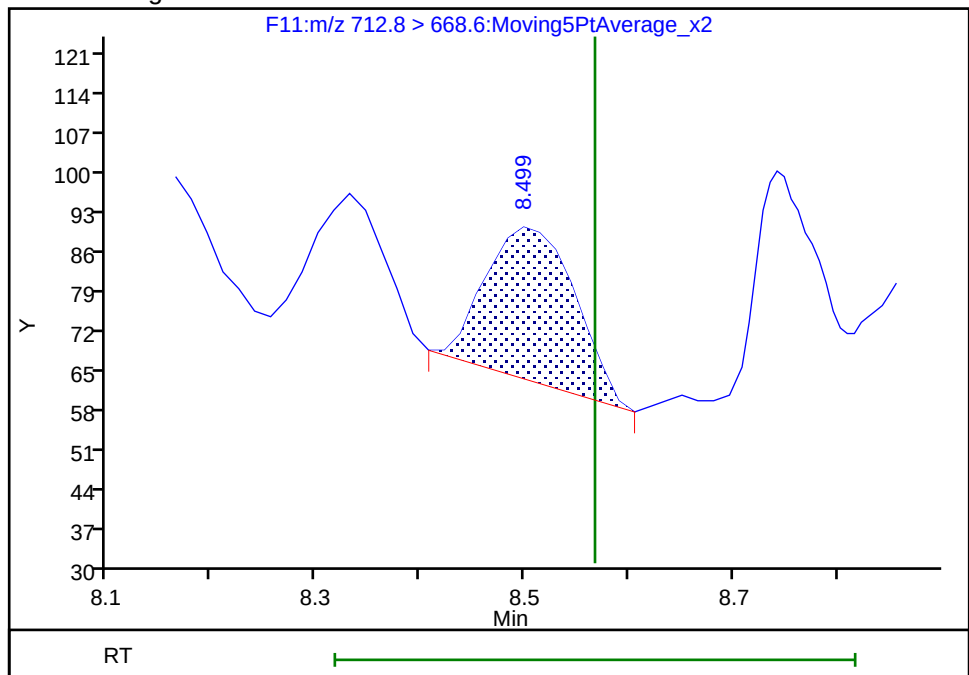
Signal: 1

Not Detected  
Expected RT: 8.57

## Processing Integration Results

RT: 8.50  
Area: 163  
Amount: 0.010406  
Amount Units: ng/ml

## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:31:28  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

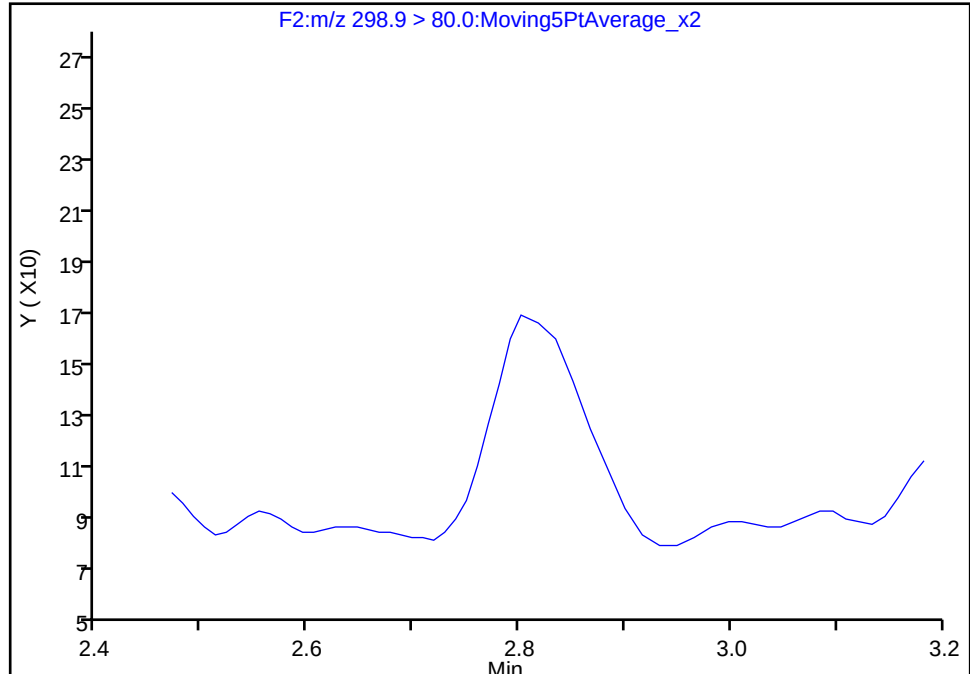
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:11:06                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-4-A                                                    | Lab Sample ID: | 200-165769-4 |                |    |
| Client ID:      | EB1 092618                                                          |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 20 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

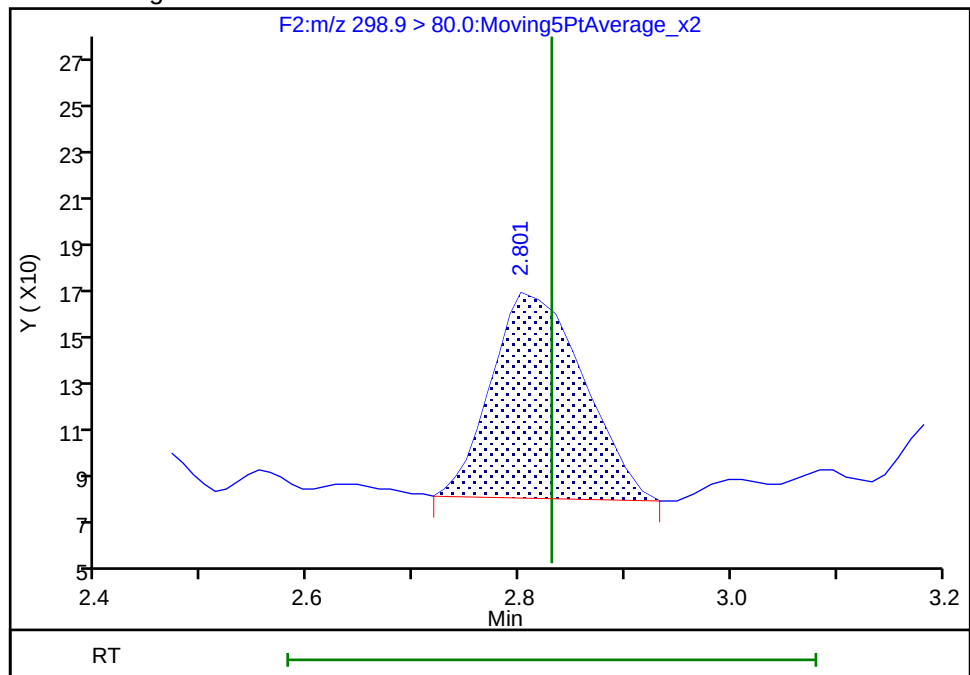
Signal: 1

Not Detected  
Expected RT: 2.83

## Processing Integration Results



## Manual Integration Results

RT: 2.80  
Area: 520  
Amount: 0.106581  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:32:25

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

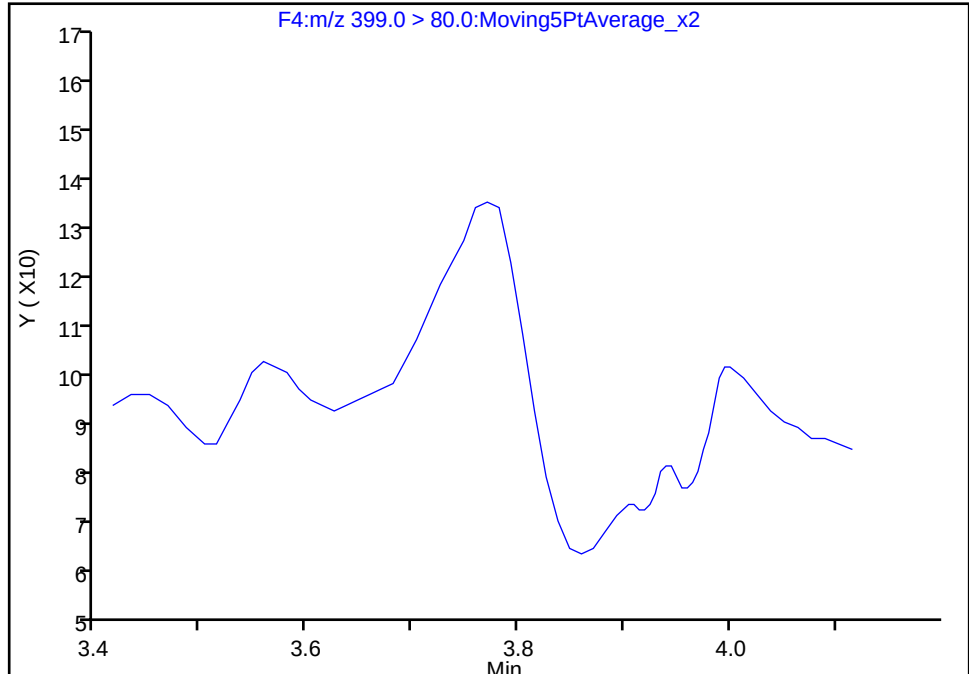
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:11:06                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-4-A                                                    | Lab Sample ID: | 200-165769-4 |                |    |
| Client ID:      | EB1 092618                                                          |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 20 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F4:MRM       |                |    |

**12 Perfluorohexanesulfonic acid, CAS: 355-46-4**

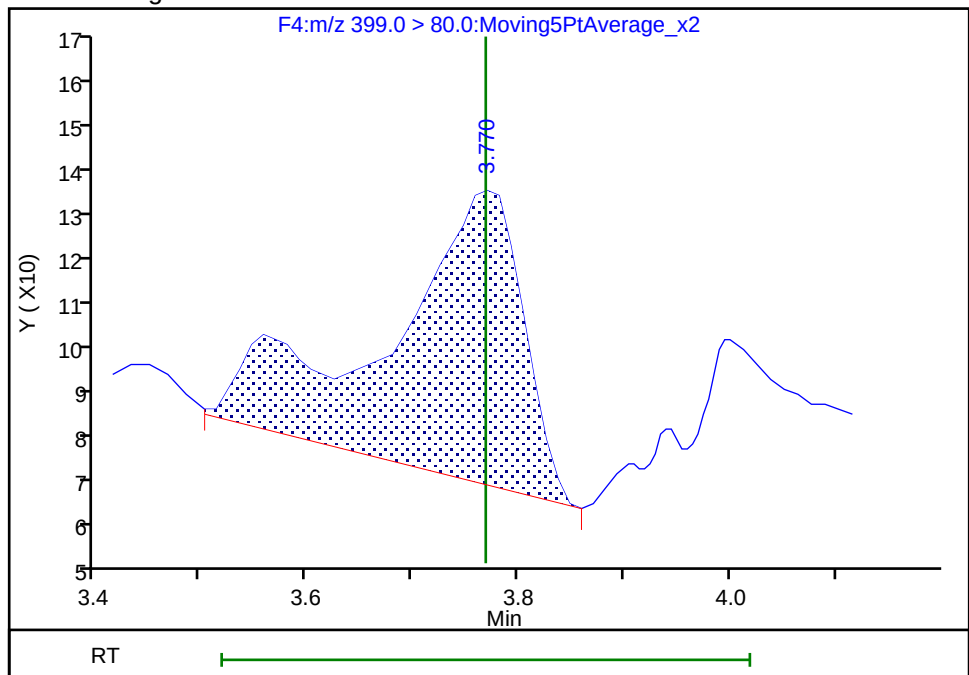
Signal: 1

Not Detected  
Expected RT: 3.77

## Processing Integration Results

RT: 3.77  
Area: 518  
Amount: 0.096633  
Amount Units: ng/ml

## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:32:16  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

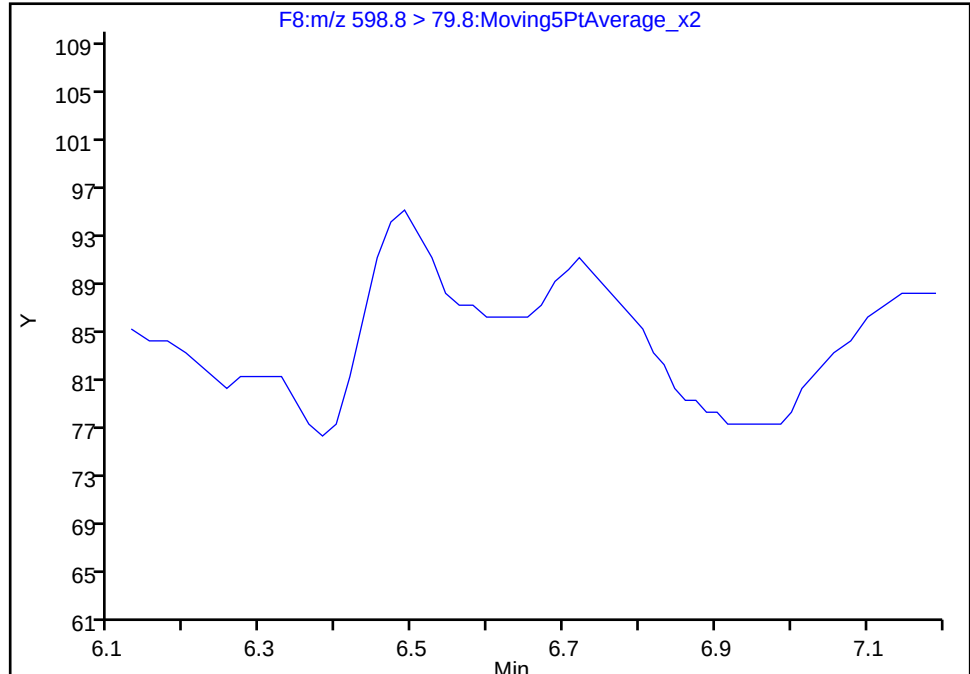
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A20.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:11:06                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-4-A                                                    | Lab Sample ID: | 200-165769-4 |                |    |
| Client ID:      | EB1 092618                                                          |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 20 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F8:MRM       |                |    |

**31 Perfluorodecanesulfonic acid, CAS: 335-77-3**

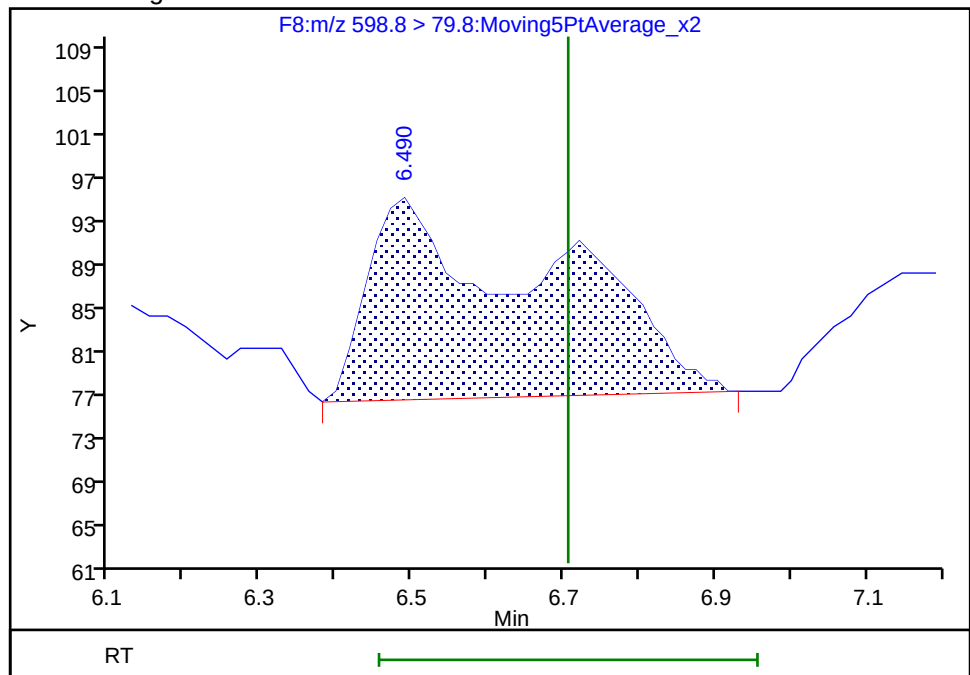
Signal: 1

Not Detected  
Expected RT: 6.71

## Processing Integration Results



## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:31:46  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: <u>FB1 09262018</u>   | Lab Sample ID: <u>460-165769-5</u>         |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A21.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/26/2018 13:00</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>266.2 (mL)</u>        | Date Analyzed: <u>10/12/2018 21:26</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q   | RL   | MDL  |
|------------|----------------------------------------------------------|--------|-----|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 0.39   | U   | 1.88 | 0.39 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 0.70   | U   | 1.88 | 0.70 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 0.23   | U   | 1.88 | 0.23 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 0.30   | U   | 1.88 | 0.30 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 0.30   | U   | 1.88 | 0.30 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 0.36   | U   | 1.88 | 0.36 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 0.36   | U   | 1.88 | 0.36 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 0.23   | U   | 1.88 | 0.23 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 0.33   | U   | 1.88 | 0.33 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 0.23   | U   | 1.88 | 0.23 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 0.42   | U   | 1.88 | 0.42 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 0.41   | U   | 1.88 | 0.41 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 0.32   | J B | 1.88 | 0.24 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.77   | U   | 1.88 | 0.77 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 0.71   | U   | 1.88 | 0.71 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 0.50   | U   | 1.88 | 0.50 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 0.53   | U   | 1.88 | 0.53 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.42   | U   | 18.8 | 0.42 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.66   | U   | 18.8 | 0.66 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.94   | U   | 18.8 | 0.94 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.53   | U   | 18.8 | 0.53 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: <u>FB1 09262018</u>   | Lab Sample ID: <u>460-165769-5</u>         |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A21.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/26/2018 13:00</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>266.2 (mL)</u>        | Date Analyzed: <u>10/12/2018 21:26</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 70   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 94   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 99   |   | 25-150 |
| STL00991 | 13C4 PFOS        | 71   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 97   |   | 25-150 |
| STL00992 | 13C4 PFBA        | 91   |   | 25-150 |
| STL00993 | 13C2 PFHxA       | 79   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 101  |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 97   |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 89   |   | 25-150 |
| STL01056 | 13C8 FOSA        | 52   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 90   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 86   |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 70   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 89   |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 102  |   | 25-150 |
| STL02280 | M2-8:2 FTS       | 102  |   | 25-150 |
| STL02337 | 13C3 PFBS        | 74   |   | 25-150 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d  
 Lims ID: 460-165769-C-5-A  
 Client ID: FB1 09262018  
 Sample Type: Client  
 Inject. Date: 12-Oct-2018 21:26:56 ALS Bottle#: 0 Worklist Smp#: 21  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-021 5  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:43:45 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
 Column 1 : Det: F1:MRM  
 Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:35:14

| Signal                          | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                   |       |        |        |        |          |              |               |      |      |       |
| 216.9 > 171.5                   | 2.343 | 2.326  | 0.017  | 1.000  | 354360   | 45.5         |               | 91.0 | 867  |       |
| 2 Perfluorobutanoic acid        |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                   | 2.298 | 2.344  | -0.046 | 0.981  | 472      | 0.0695       |               |      | 0.9  | M     |
| D 3 13C5 PFPeA                  |       |        |        |        |          |              |               |      |      |       |
| 267.7 > 222.6                   | 2.770 | 2.763  | 0.007  | 1.000  | 84157    | 45.0         |               | 90.1 | 1094 |       |
| 4 Perfluoropentanoic acid       |       |        |        |        |          |              |               |      |      | M     |
| 262.9 > 218.8                   | 2.739 | 2.763  | -0.024 | 0.989  | 675      | 0.0592       |               |      | 1.6  | M     |
| D 6 13C3 PFBS                   |       |        |        |        |          |              |               |      |      | M     |
| 302.0 > 79.8                    | 2.818 | 2.829  | -0.011 | 1.000  | 93955    | 34.4         |               | 73.9 | 665  | M     |
| D 7 13C2 PFHxA                  |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                   | 3.189 | 3.188  | 0.001  | 1.000  | 226119   | 39.7         |               | 79.4 | 2797 |       |
| D 9 13C4 PFHpA                  |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                   | 3.726 | 3.725  | 0.001  | 1.000  | 781865   | 46.9         |               | 93.8 | 3308 |       |
| 10 Perfluoroheptanoic acid      |       |        |        |        |          |              |               |      |      | M     |
| 362.9 > 318.8                   | 3.715 | 3.728  | -0.013 | 0.997  | 226      | 0.0144       |               |      | 1.4  | M     |
| 12 Perfluorohexanesulfonic acid |       |        |        |        |          |              |               |      |      | M     |
| 399.0 > 80.0                    | 3.748 | 3.769  | -0.021 | 0.994  | 728      | 0.1687       |               |      | 6.4  | M     |
| D 11 18O2 PFHxS                 |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                    | 3.770 | 3.770  | 0.0    | 1.000  | 109381   | 33.2         |               | 70.2 | 188  |       |
| D 13 M2-6:2 FTS                 |       |        |        |        |          |              |               |      |      | M     |
| 428.6 > 408.6                   | 4.342 | 4.353  | -0.011 | 1.000  | 29076    | 48.3         |               | 102  | 133  | M     |
| * 15 13C2 PFOA                  |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                   | 4.411 | 4.401  | 0.010  |        | 722524   | 50.0         |               |      | 2147 |       |
| D 17 13C4 PFOA                  |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                   | 4.411 | 4.407  | 0.004  | 1.000  | 664984   | 49.7         |               | 99.4 | 2396 |       |
| 16 Perfluorooctanoic acid       |       |        |        |        |          |              |               |      |      | M     |
| 412.9 > 368.8                   | 4.393 | 4.409  | -0.016 | 0.996  | 848      | 0.0609       |               |      | 8.5  | M     |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|-----------------|------|------|-------|
| D 20 13C5 PFNA                        |       |        |        |        |          |              |                 |      |      |       |
| 467.8 > 422.8                         | 5.168 | 5.171  | -0.003 | 1.000  | 833639   | 48.7         |                 | 97.4 | 1488 |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |                 |      |      | M     |
| 462.8 > 418.8                         | 5.195 | 5.175  | 0.020  | 1.005  | 803      | -0.4719      |                 |      | 4.0  | M     |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |                 |      |      |       |
| 502.8 > 79.8                          | 5.195 | 5.195  | 0.0    | 1.000  | 93258    | 33.7         |                 | 70.6 | 374  |       |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |                 |      |      |       |
| 528.8 > 508.8                         | 5.926 | 5.929  | -0.003 | 1.000  | 221485   | 49.0         |                 | 102  | 879  |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |                 |      |      | M     |
| 526.8 > 506.5                         | 5.926 | 5.932  | -0.006 | 1.000  | 17       | 0.005113     |                 |      | 0.2  | M     |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |                 |      |      |       |
| 514.9 > 469.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 945607   | 50.4         |                 | 101  | 4843 |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |                 |      |      | M     |
| 512.9 > 468.5                         | 5.863 | 5.956  | -0.093 | 0.985  | 385      | 0.0449       |                 |      | 1.6  | M     |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |                 |      |      |       |
| 572.8 > 418.8                         | 6.295 | 6.311  | -0.016 | 1.000  | 186004   | 35.2         |                 | 70.4 | 676  |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |                 |      |      | M     |
| 569.8 > 418.8                         | 6.277 | 6.315  | -0.038 | 0.997  | 73       | 0.0186       |                 |      | 0.6  | M     |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |                 |      |      |       |
| 588.9 > 418.8                         | 6.670 | 6.674  | -0.004 | 1.000  | 203564   | 44.4         |                 | 88.7 | 1288 |       |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |                 |      |      |       |
| 564.8 > 519.8                         | 6.706 | 6.720  | -0.014 | 1.000  | 1042574  | 48.5         |                 | 97.0 | 2937 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |                 |      |      | M     |
| 562.8 > 518.6                         | 6.720 | 6.720  | 0.0    | 1.002  | 2135     | 0.1156       |                 |      | 19.4 | M     |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |                 |      |      |       |
| 505.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 127129   | 25.9         |                 | 51.9 | 1192 |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |                 |      |      | M     |
| 497.8 > 77.8                          | 6.734 | 6.973  | -0.239 | 0.966  | 313      | 0.1435       |                 |      | 2.4  | M     |
| D 37 13C2 PFDaA                       |       |        |        |        |          |              |                 |      |      |       |
| 614.8 > 569.6                         | 7.384 | 7.402  | -0.018 | 1.000  | 1052037  | 44.7         |                 | 89.3 | 1991 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |                 |      |      | M     |
| 612.8 > 568.6                         | 7.407 | 7.407  | 0.0    | 1.003  | 572      | 0.0314       |                 |      | 5.7  | M     |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |                 |      |      | M     |
| 662.8 > 618.6                         | 8.029 | 8.020  | 0.009  | 0.938  | 844      | 0.0459       |                 |      | 6.0  | M     |
| D 40 13C2 PFTeDA                      |       |        |        |        |          |              |                 |      |      |       |
| 714.8 > 669.6                         | 8.560 | 8.563  | -0.003 | 1.000  | 988547   | 43.2         |                 | 86.4 | 579  |       |
| 39 Perfluorotetradecanoic acid        |       |        |        |        |          |              |                 |      |      | M     |
| 712.8 > 668.6                         | 8.560 | 8.567  | -0.007 | 1.000  | 1441     | 0.0745       |                 |      | 8.3  | M     |
| 712.8 > 168.8                         | 8.560 | 8.567  | -0.007 | 0.000  | 0        |              | 0.00(0.00-0.00) |      |      |       |
| 712.8 > 218.8                         | 8.560 | 8.567  | -0.007 | 0.000  | 0        |              | 0.00(0.00-0.00) |      |      |       |



## QC Flag Legend

### Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A21.d

Injection Date: 12-Oct-2018 21:26:56

Instrument ID: LC410

Lims ID: 460-165769-C-5-A

Lab Sample ID: 200-165769-5

Client ID: FB1 09262018

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 21

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

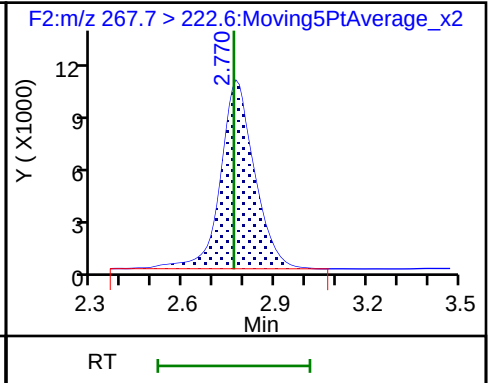
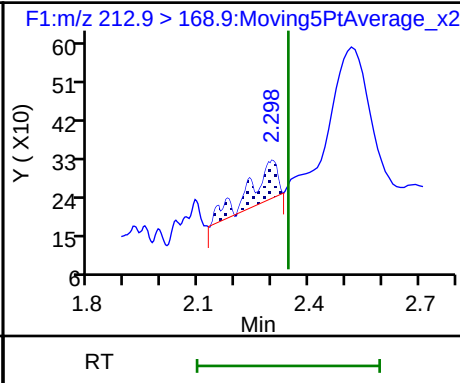
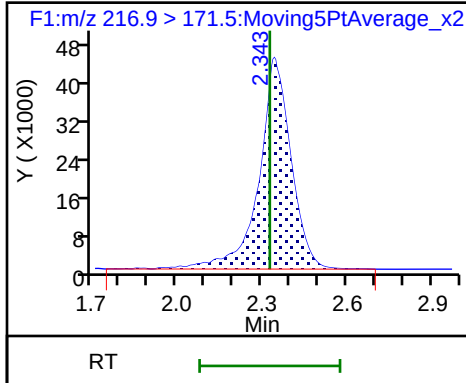
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

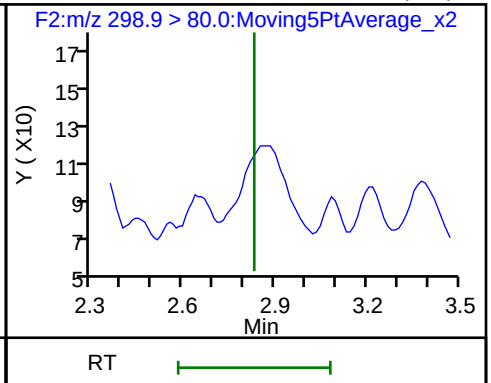
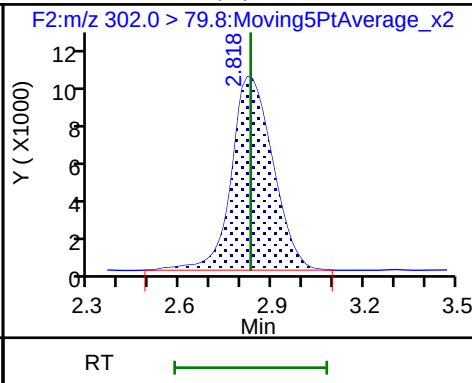
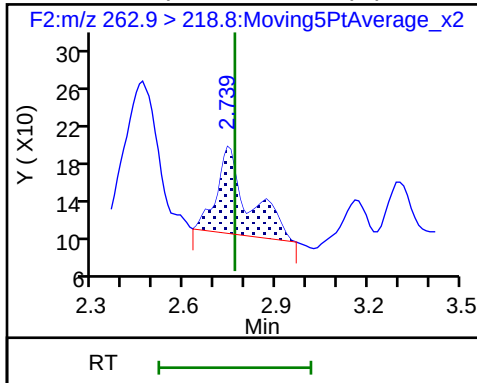
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS (M)

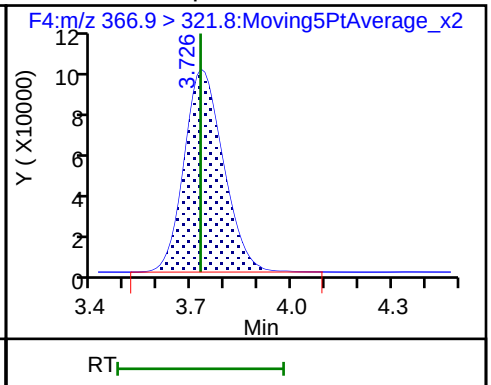
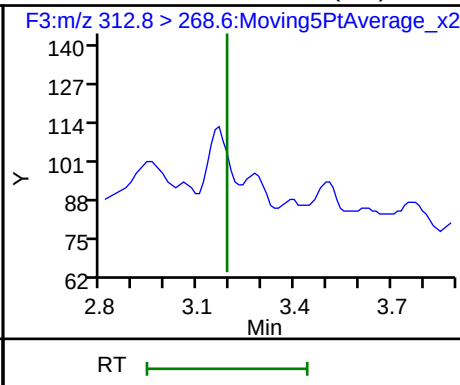
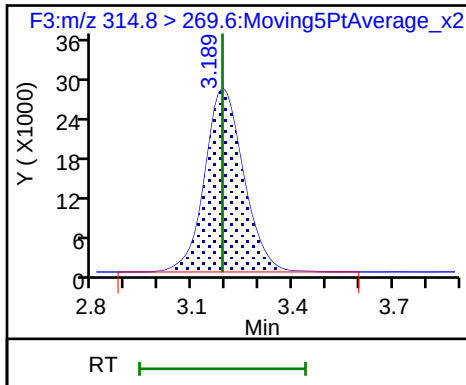
5 Perfluorobutanesulfonic acid (ND)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid (ND)

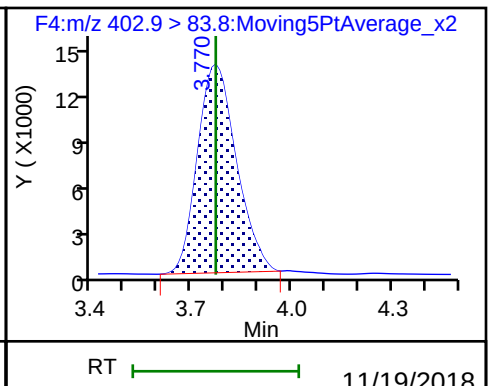
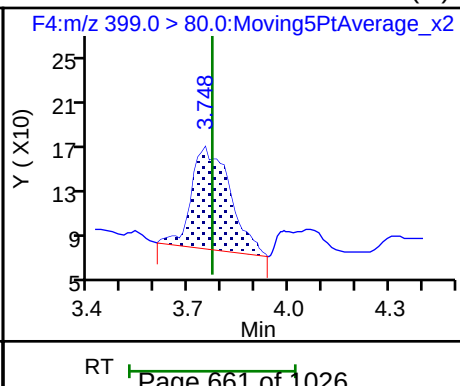
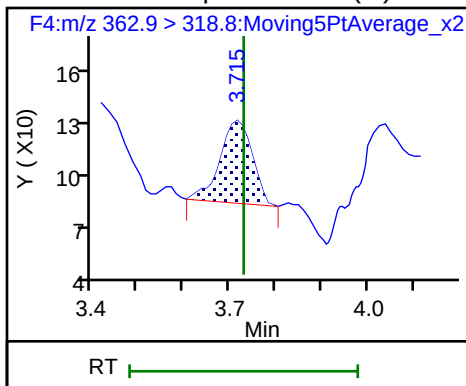
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid (M)

12 Perfluorohexanesulfonic acid (M)

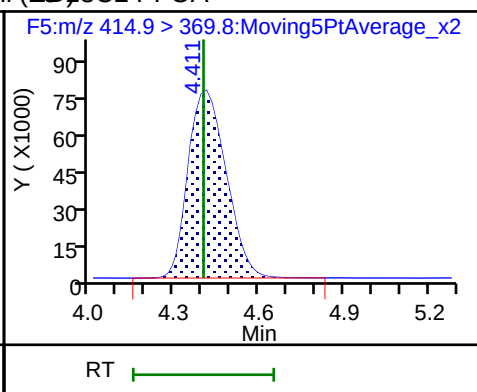
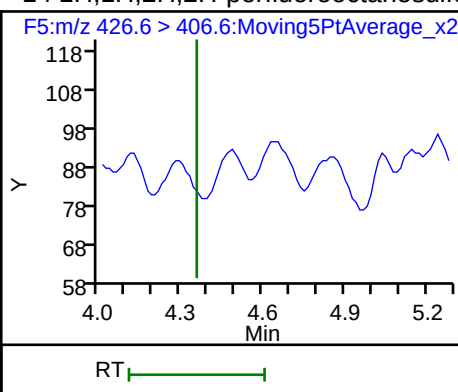
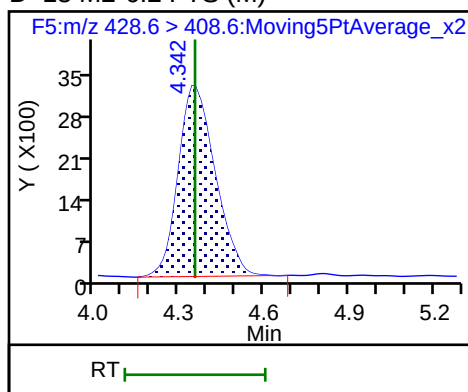
D 11 18O2 PFHxS



## D 13 M2-6:2 FTS (M)

## 14 1H,1H,2H,2H-perfluorooctanesulfonate (M)

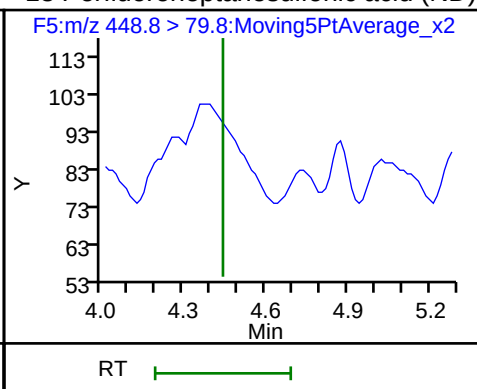
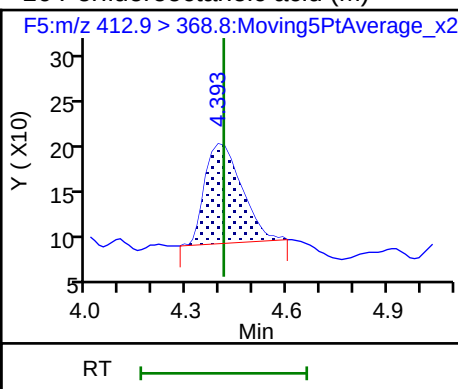
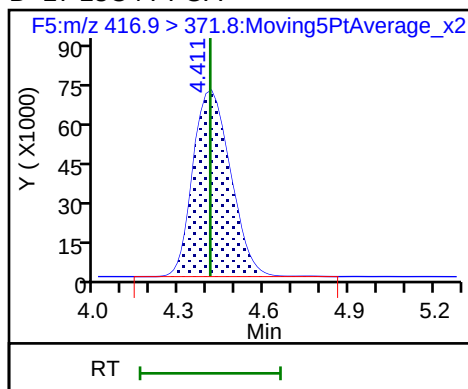
## D 13C2 PFOA



## D 17 13C4 PFOA

## 16 Perfluorooctanoic acid (M)

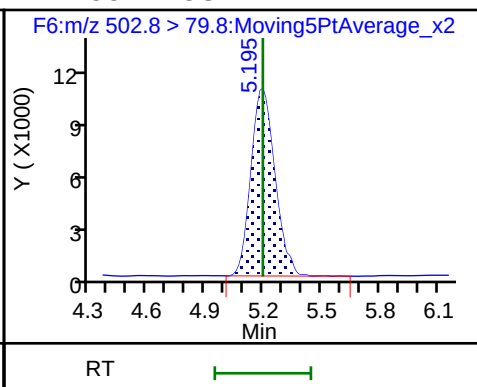
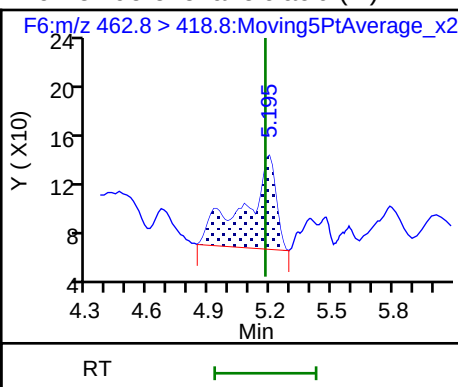
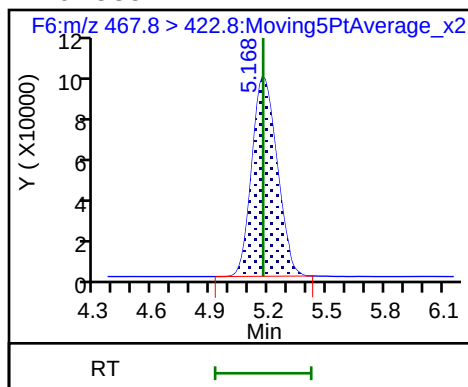
## 18 Perfluoroheptanesulfonic acid (ND)



## D 20 13C5 PFNA

## 19 Perfluorononanoic acid (M)

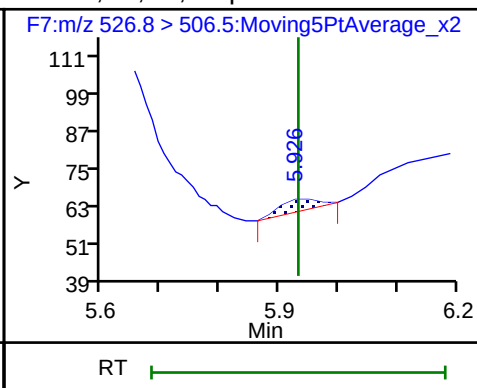
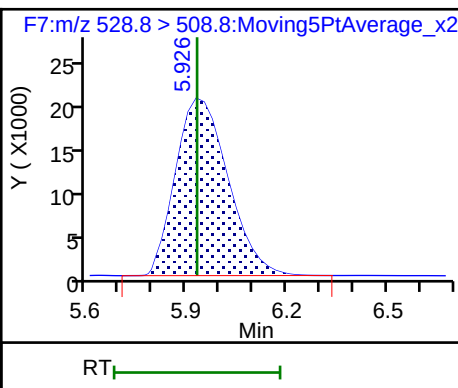
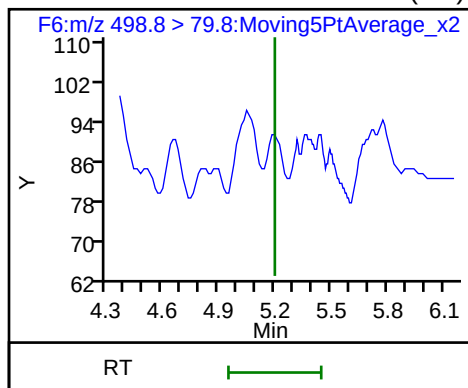
## D 22 13C4 PFOS



## 21 Perfluorooctanesulfonic acid (ND)

## D 24 M2-8:2 FTS

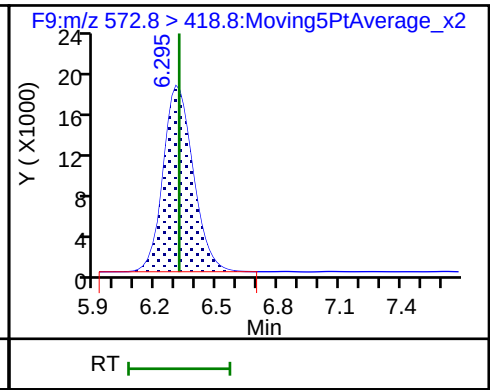
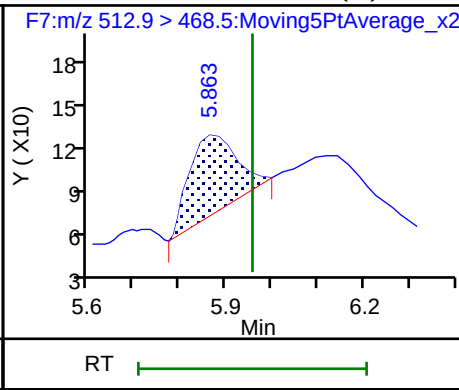
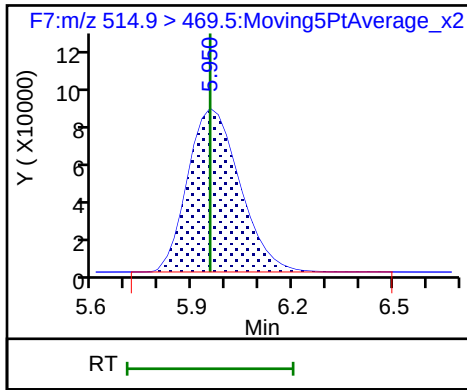
## 23 1H,1H,2H,2H-perfluorodecanesulfonate (M)



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid (M)

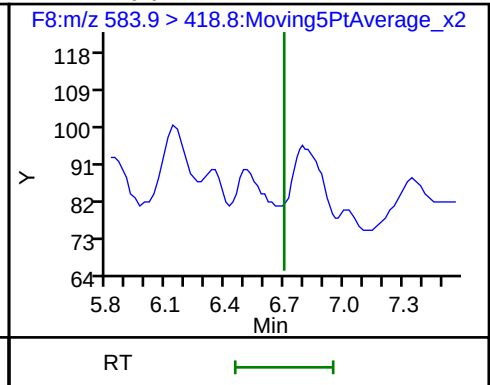
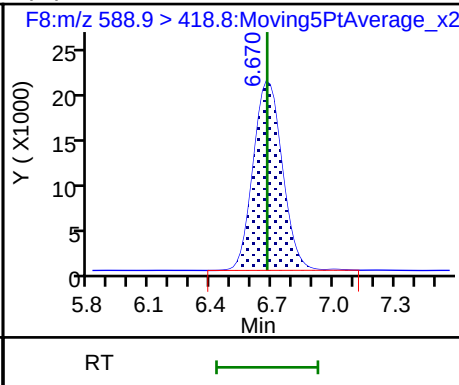
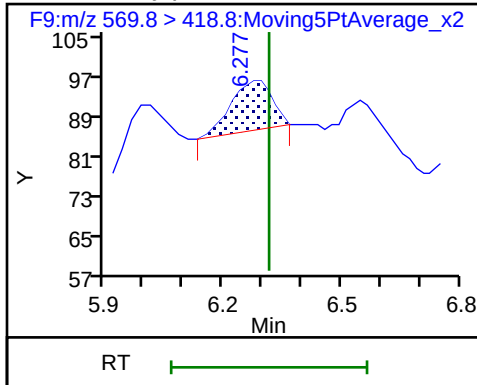
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamide (ND)

## D 29 d5-NEtFOSAA

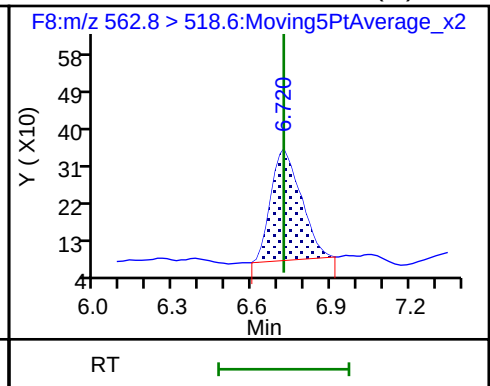
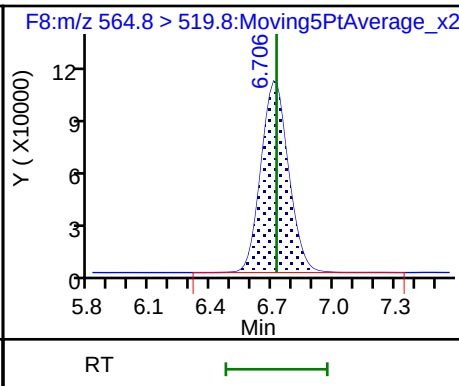
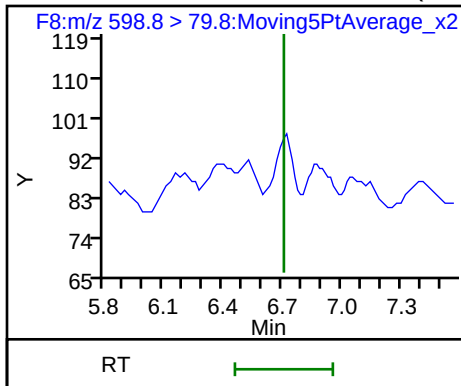
## 30 N-ethylperfluorooctanesulfonamide (ND)



## 31 Perfluorodecanesulfonic acid (ND)

## D 32 13C2 PFUnA

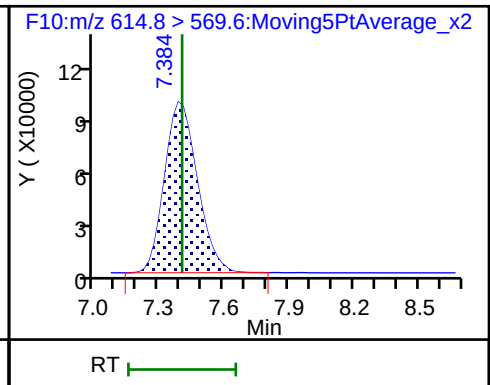
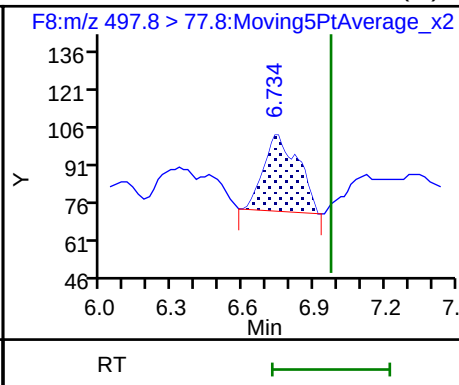
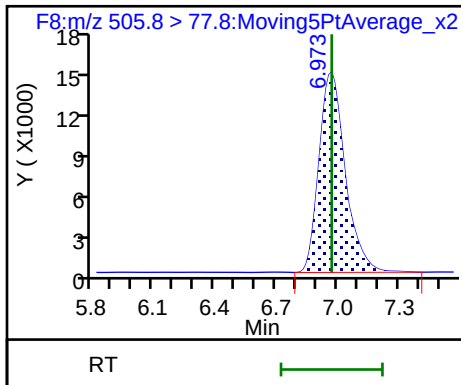
## 33 Perfluoroundecanoic acid (M)



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide (M)

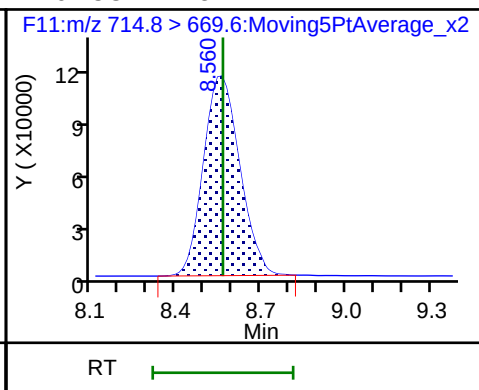
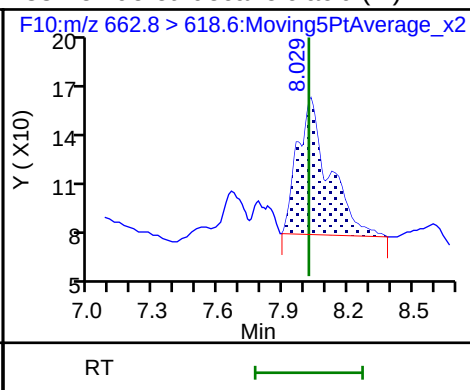
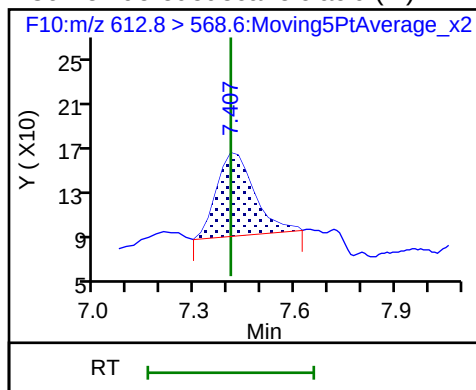
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid (M)

## 38 Perfluorotridecanoic acid (M)

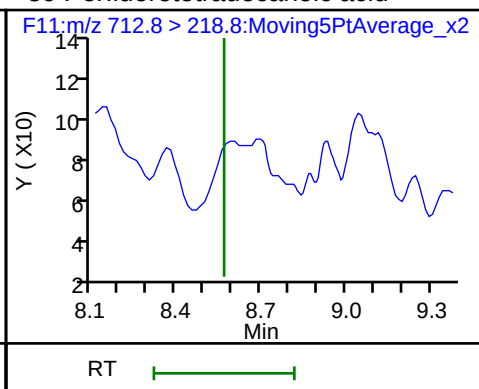
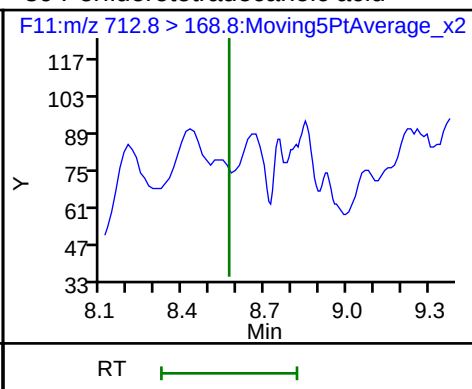
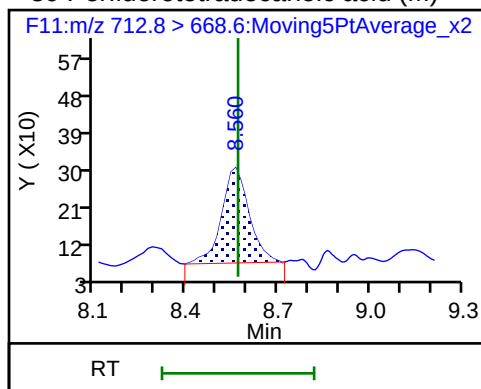
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid (M)

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

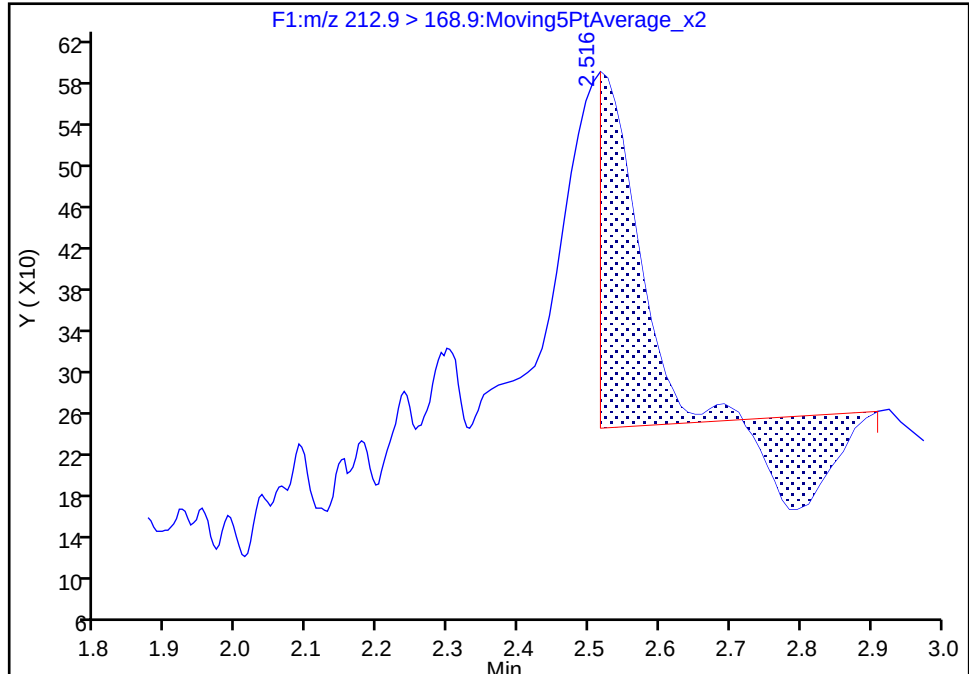
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F1:MRM       |                |    |

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

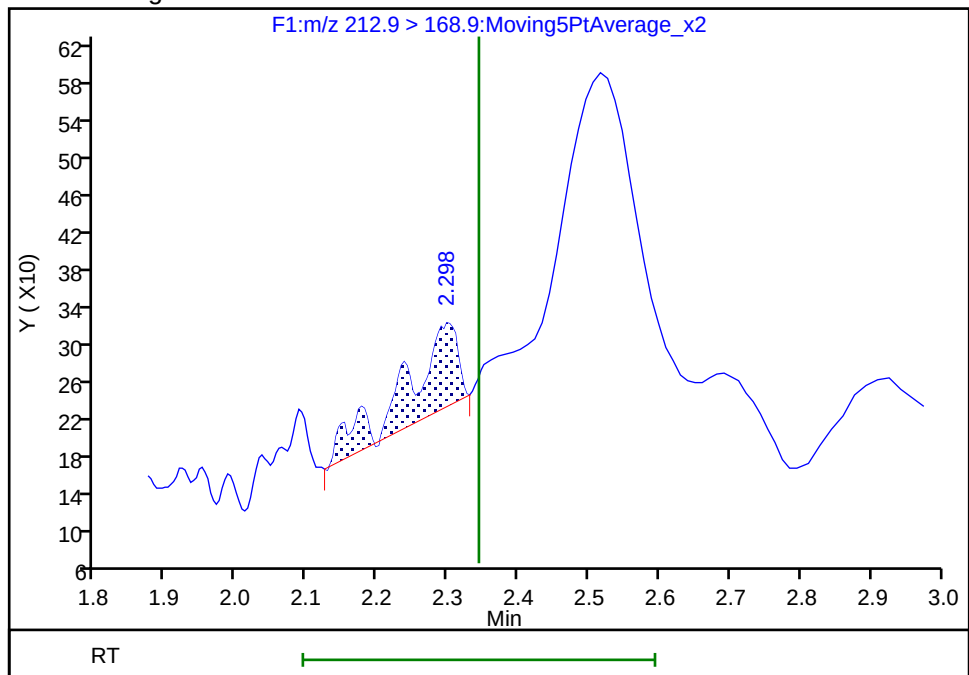
RT: 2.52  
Area: 710  
Amount: 0.104563  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.30  
Area: 472  
Amount: 0.069512  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:33:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

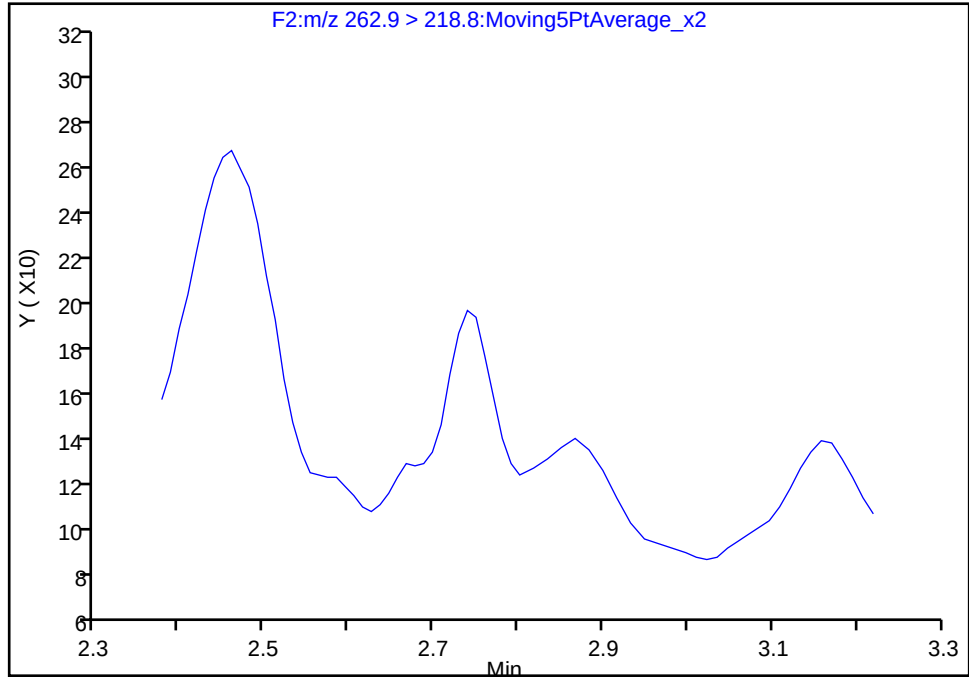
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

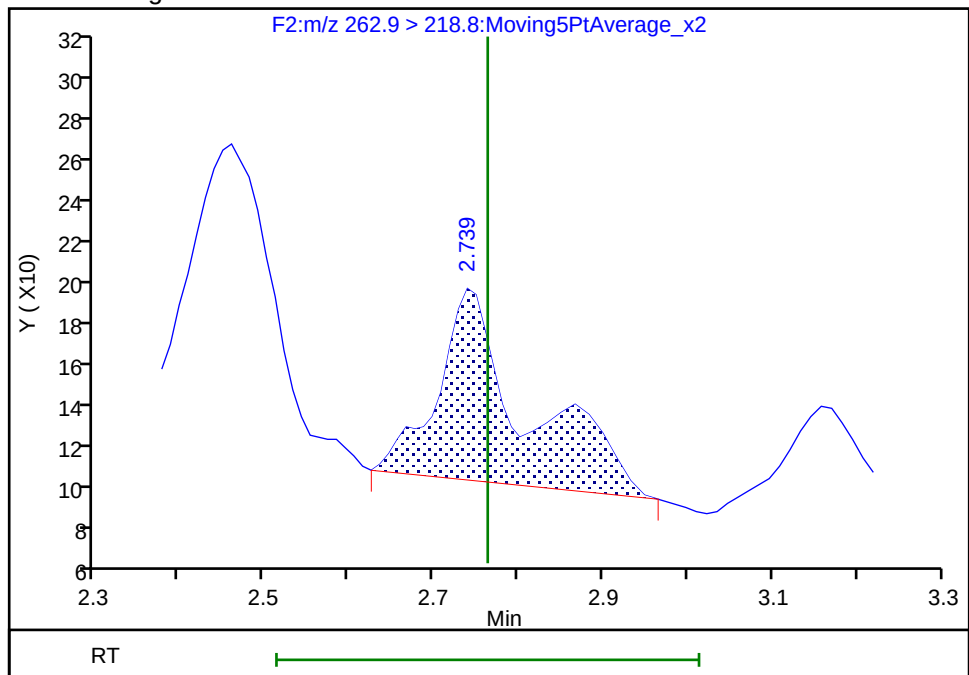
Signal: 1

Not Detected  
Expected RT: 2.76

## Processing Integration Results



## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:35:09

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

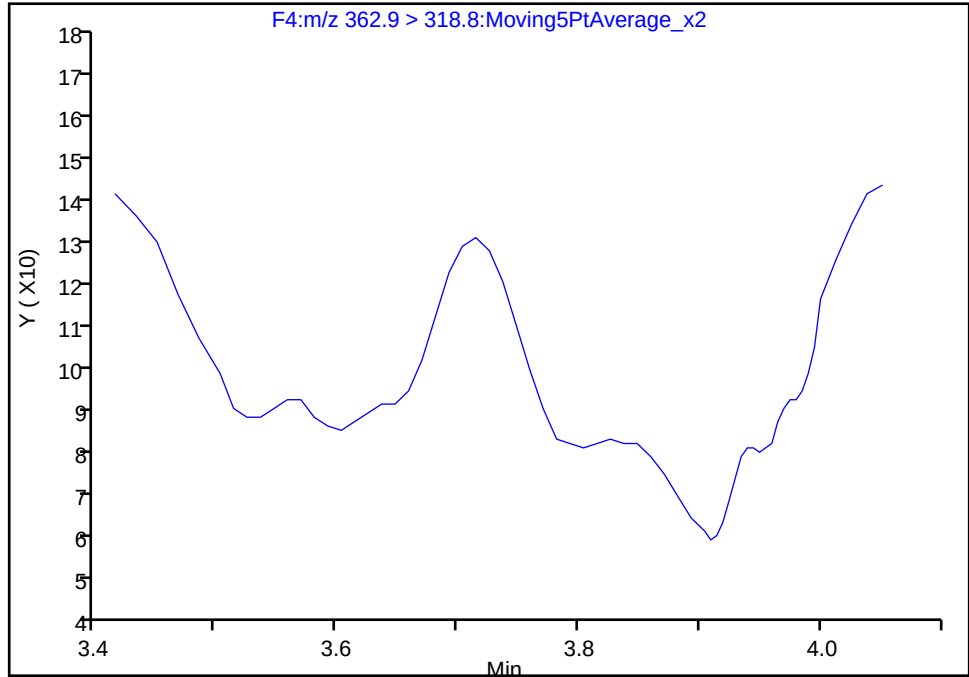
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F4:MRM       |                |    |

**10 Perfluoroheptanoic acid, CAS: 375-85-9**

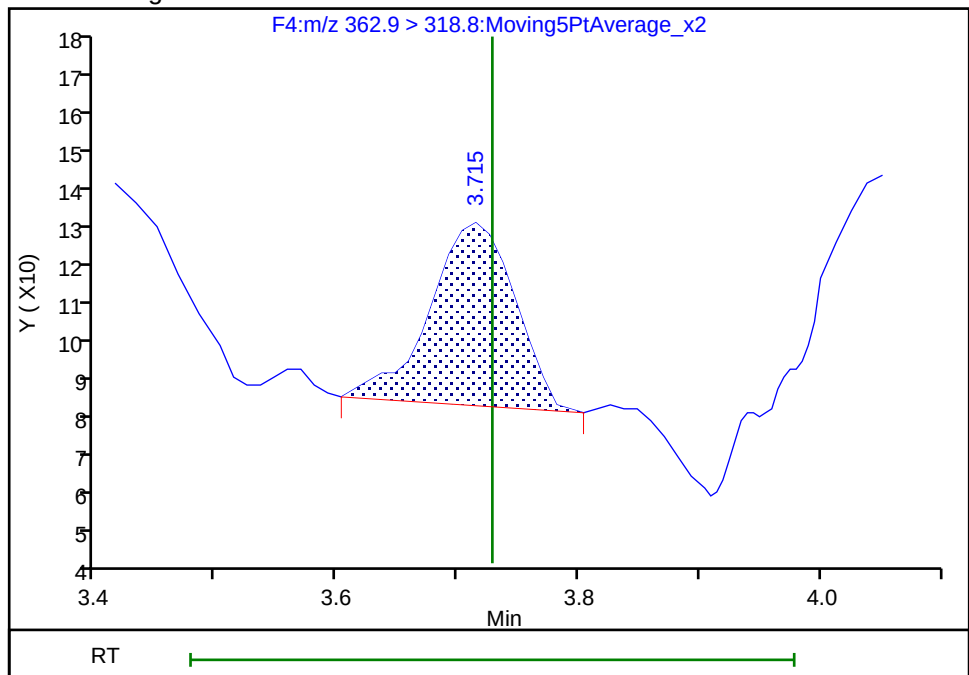
Signal: 1

Not Detected  
Expected RT: 3.73

## Processing Integration Results



## Manual Integration Results



RT: 3.71  
Area: 226  
Amount: 0.014382  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:35:02  
Audit Action: Manually Integrated

Audit Reason: Missed Peak



## TestAmerica Burlington

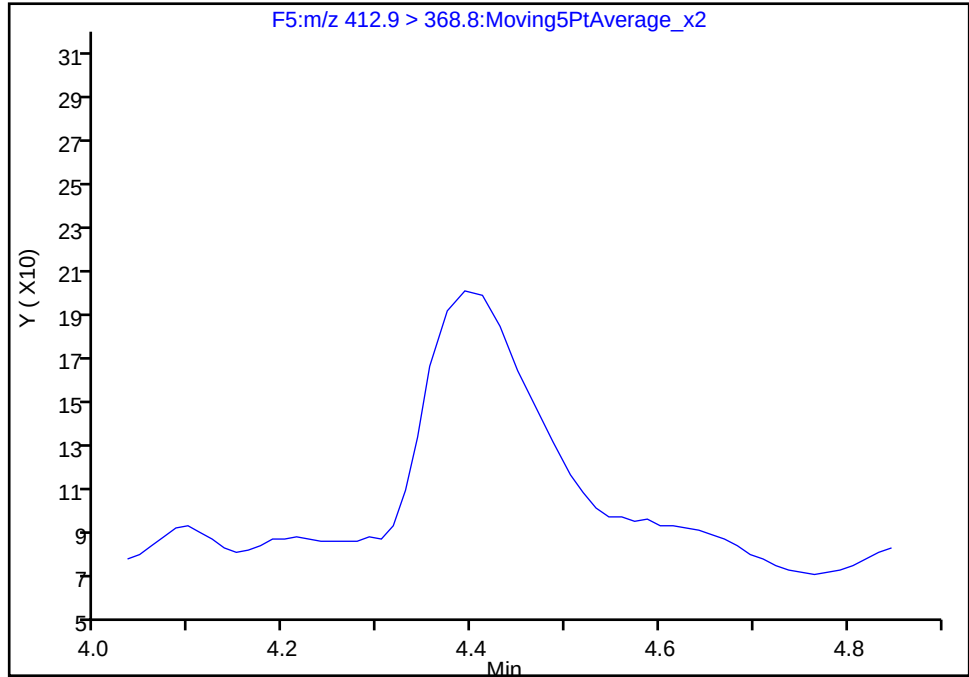
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F5:MRM       |                |    |

**16 Perfluorooctanoic acid, CAS: 335-67-1**

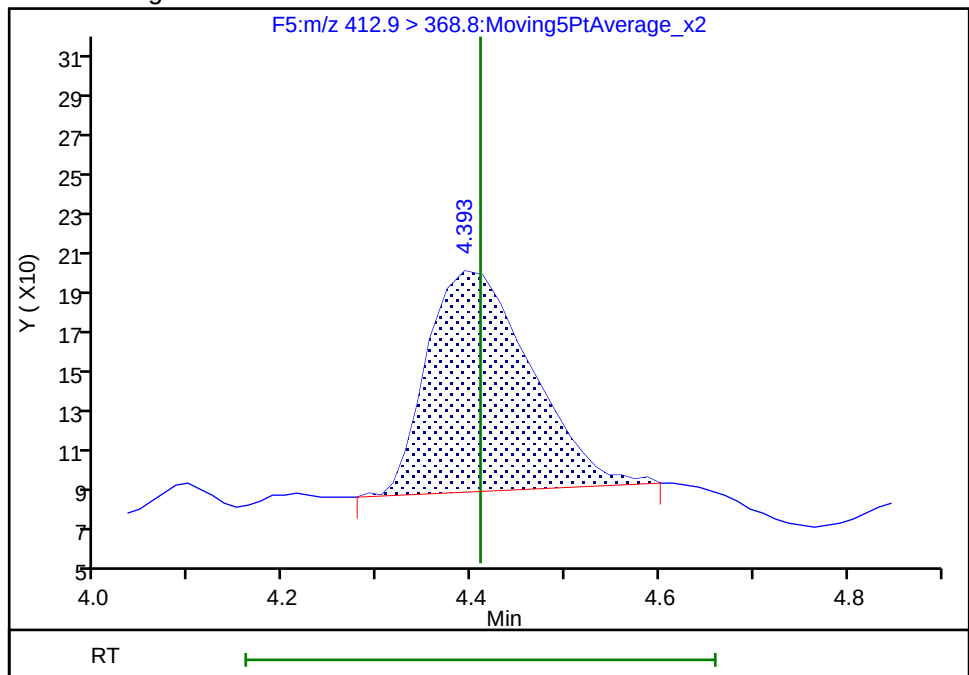
Signal: 1

Not Detected  
Expected RT: 4.41

## Processing Integration Results



## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:34:52

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

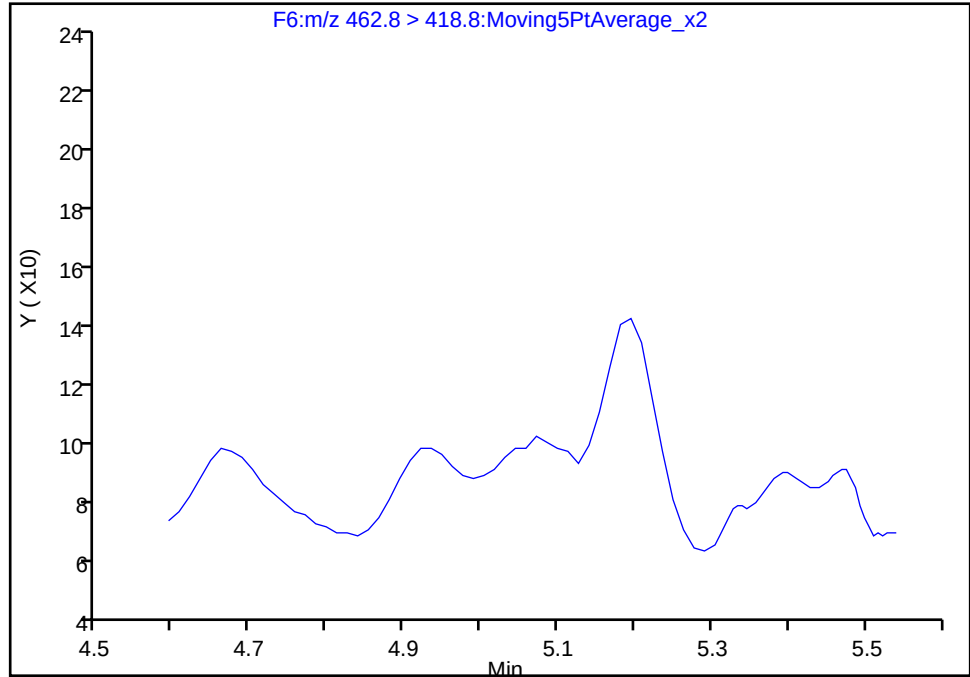
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector:      | F6:MRM       |                |    |

**19 Perfluorononanoic acid, CAS: 375-95-1**

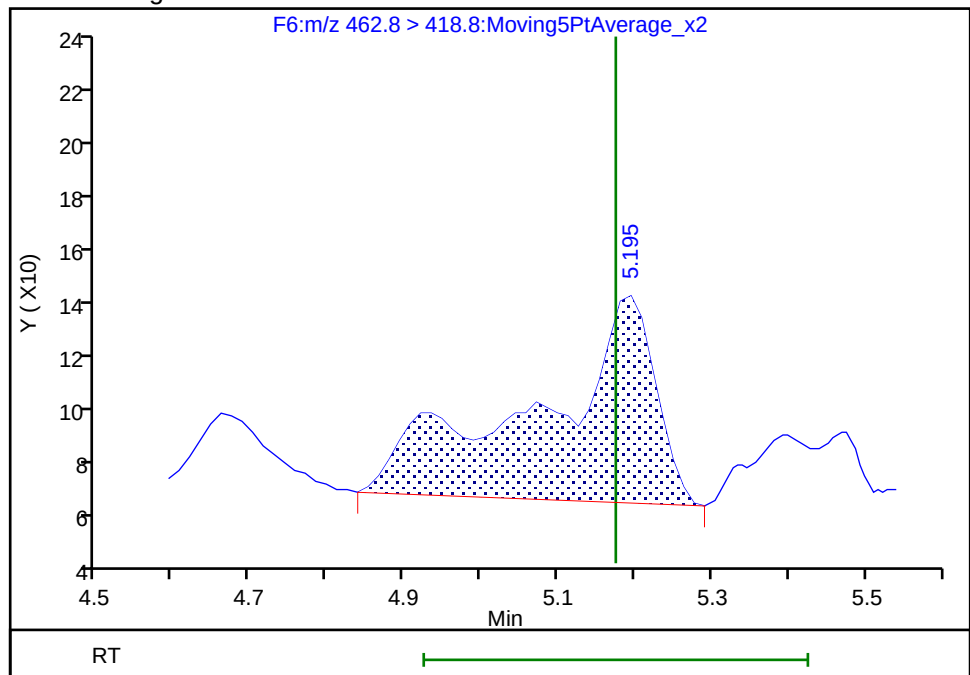
Signal: 1

Not Detected  
Expected RT: 5.18

## Processing Integration Results



## Manual Integration Results

RT: 5.19  
Area: 803  
Amount: -0.471924  
Amount Units: ng/mlReviewer: chirgwinb, 13-Oct-2018 10:34:46  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

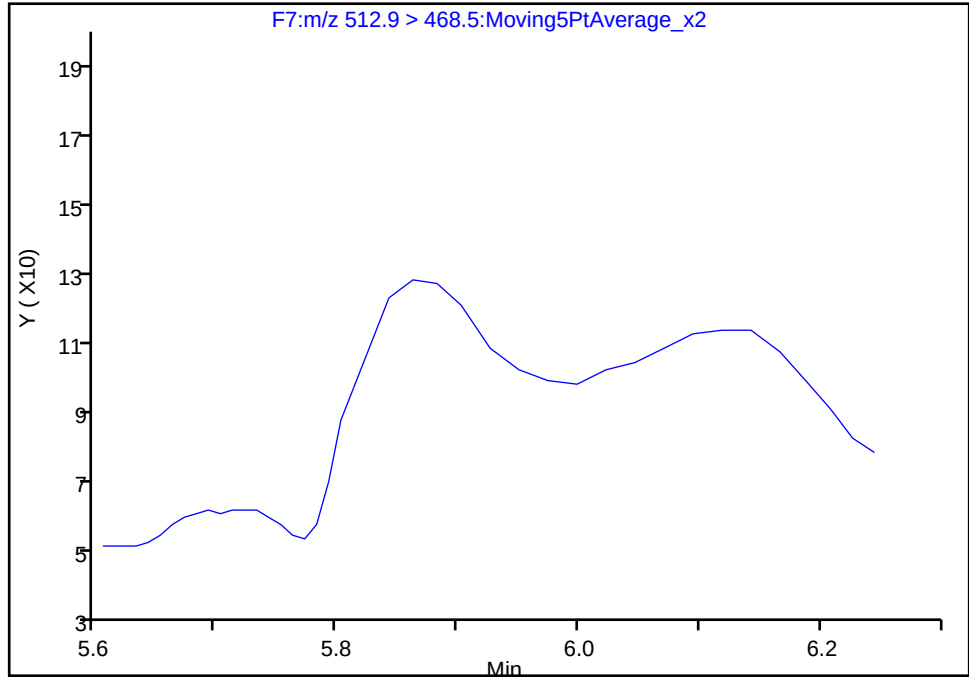
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F7:MRM       |                |    |

**25 Perfluorodecanoic acid, CAS: 335-76-2**

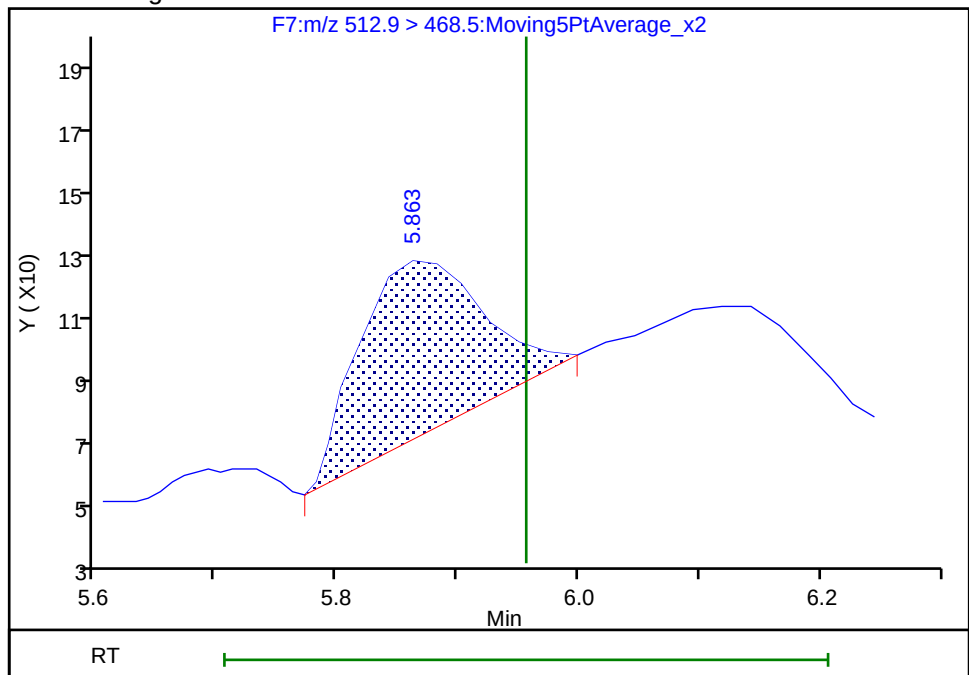
Signal: 1

Not Detected  
Expected RT: 5.96

## Processing Integration Results



## Manual Integration Results



RT: 5.86  
Area: 385  
Amount: 0.044885  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:34:32

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

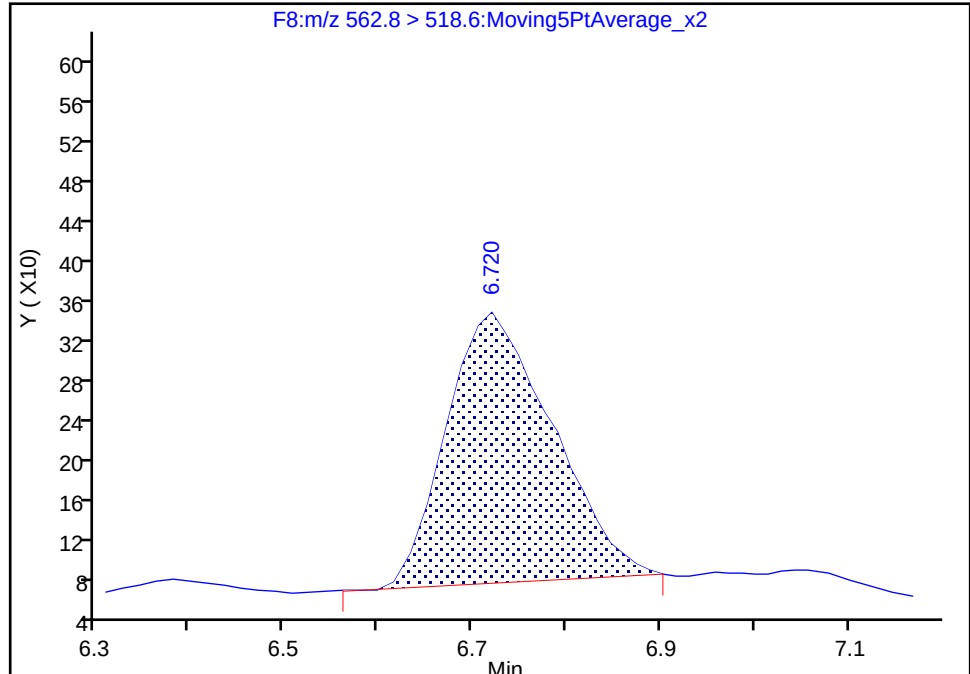
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F8:MRM       |                |    |

**33 Perfluoroundecanoic acid, CAS: 2058-94-8**

Signal: 1

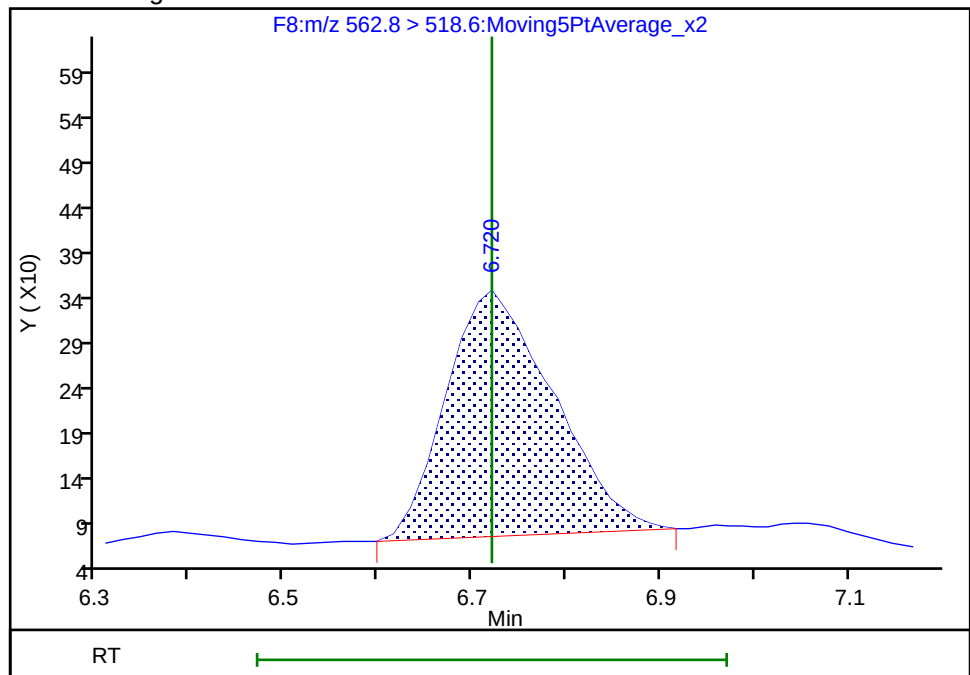
RT: 6.72  
Area: 2103  
Amount: 0.113845  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.72  
Area: 2135  
Amount: 0.115578  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:33:51  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

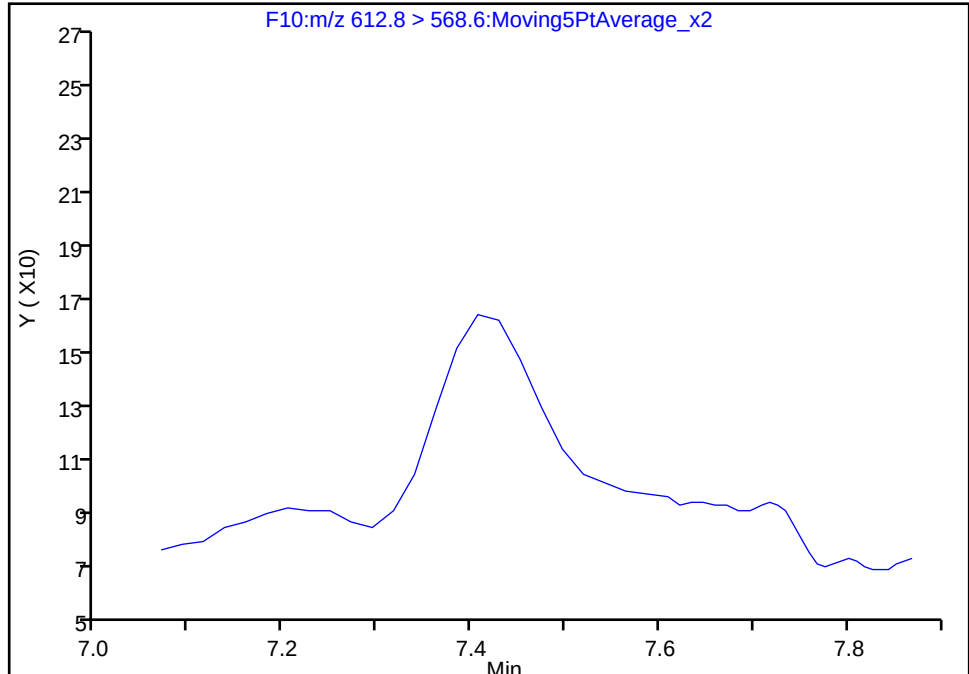
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**36 Perfluorododecanoic acid, CAS: 307-55-1**

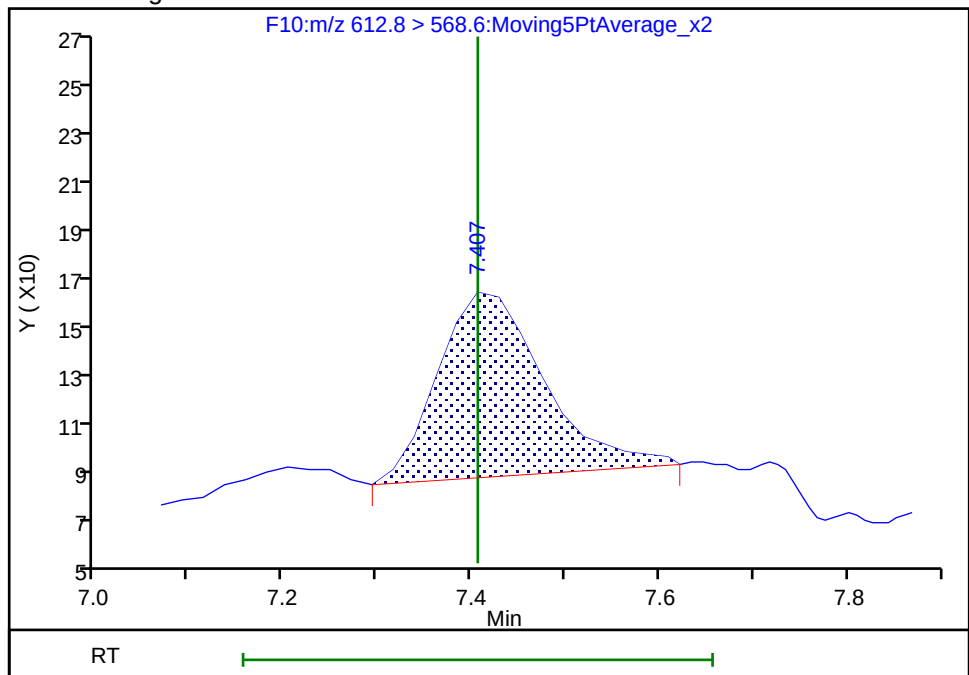
Signal: 1

Not Detected  
Expected RT: 7.41

## Processing Integration Results

RT: 7.41  
Area: 572  
Amount: 0.031430  
Amount Units: ng/ml

## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:34:16  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

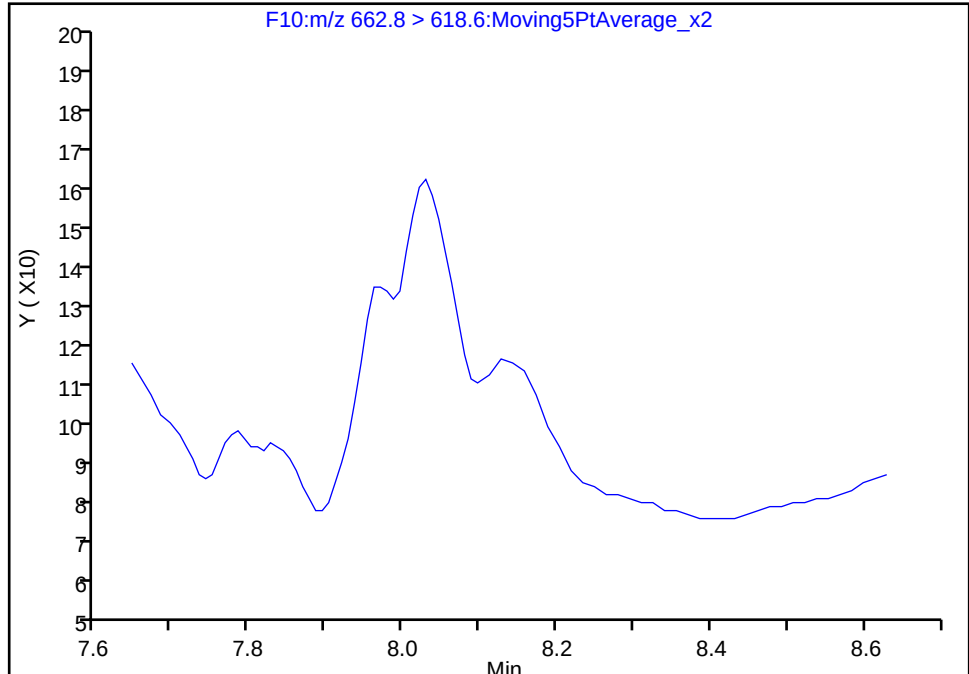
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

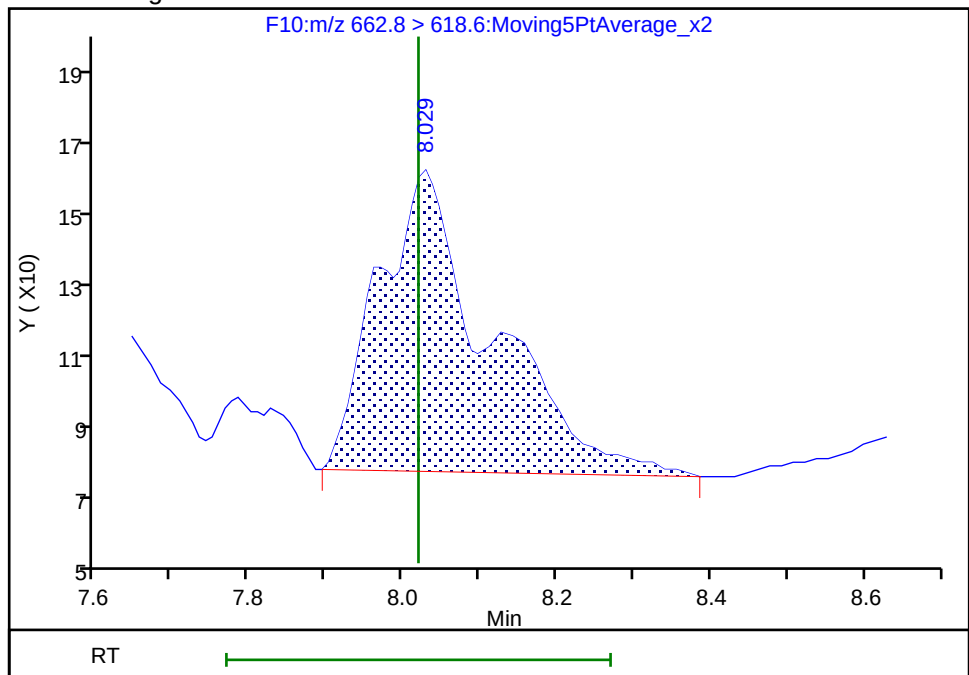
Signal: 1

Not Detected  
Expected RT: 8.02

## Processing Integration Results



## Manual Integration Results

RT: 8.03  
Area: 844  
Amount: 0.045871  
Amount Units: ng/mlReviewer: chirgwinb, 13-Oct-2018 10:34:10  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

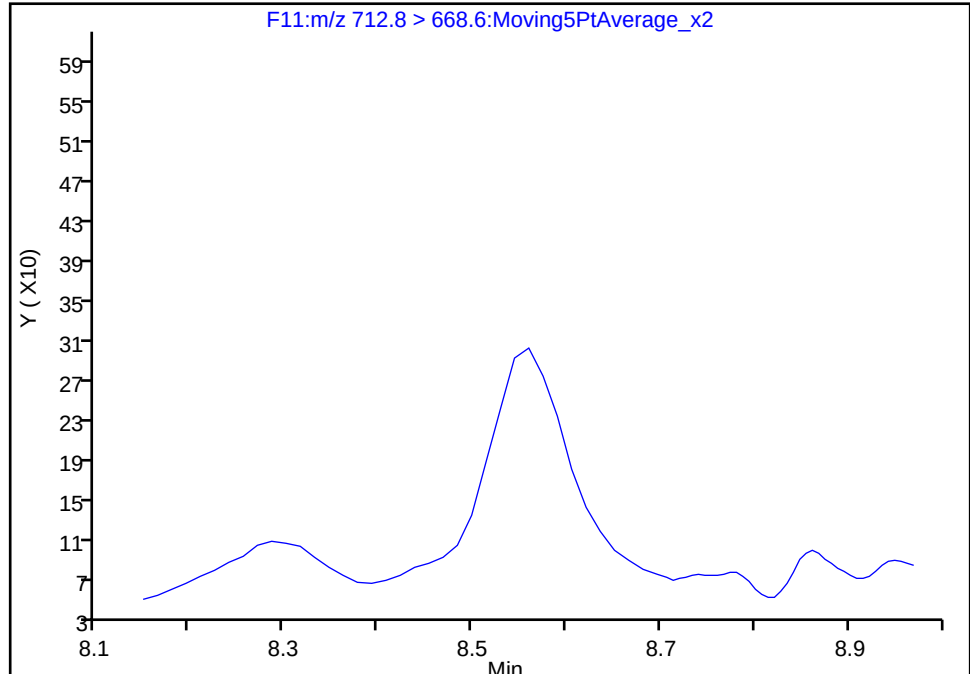
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector:      | F11:MRM      |                |    |

**39 Perfluorotetradecanoic acid, CAS: 376-06-7**

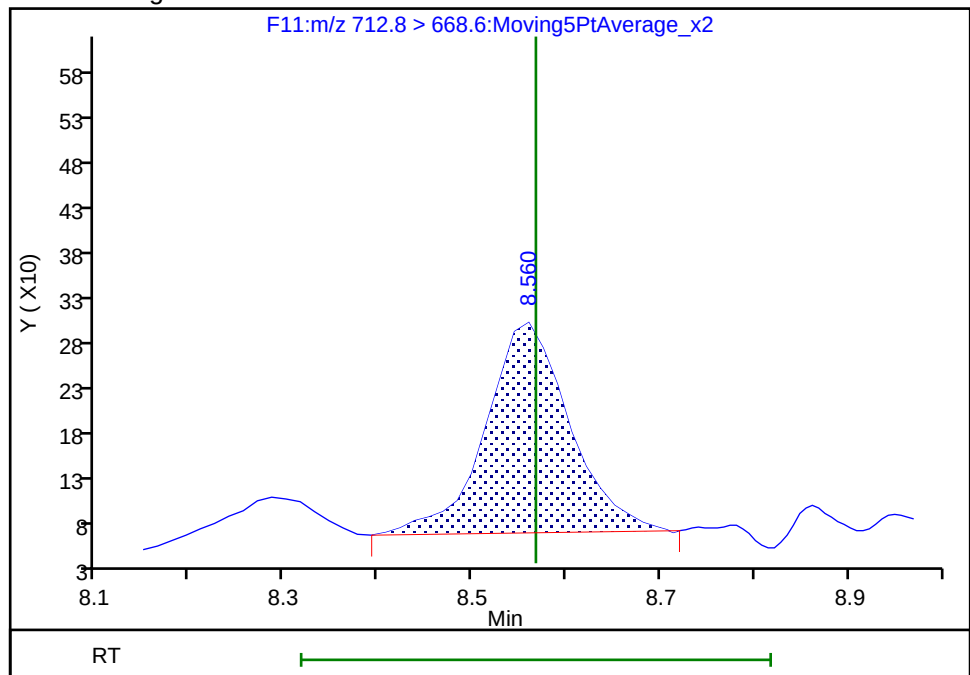
Signal: 1

Not Detected  
Expected RT: 8.57

## Processing Integration Results



## Manual Integration Results



RT: 8.56  
Area: 1441  
Amount: 0.074533  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:34:04  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

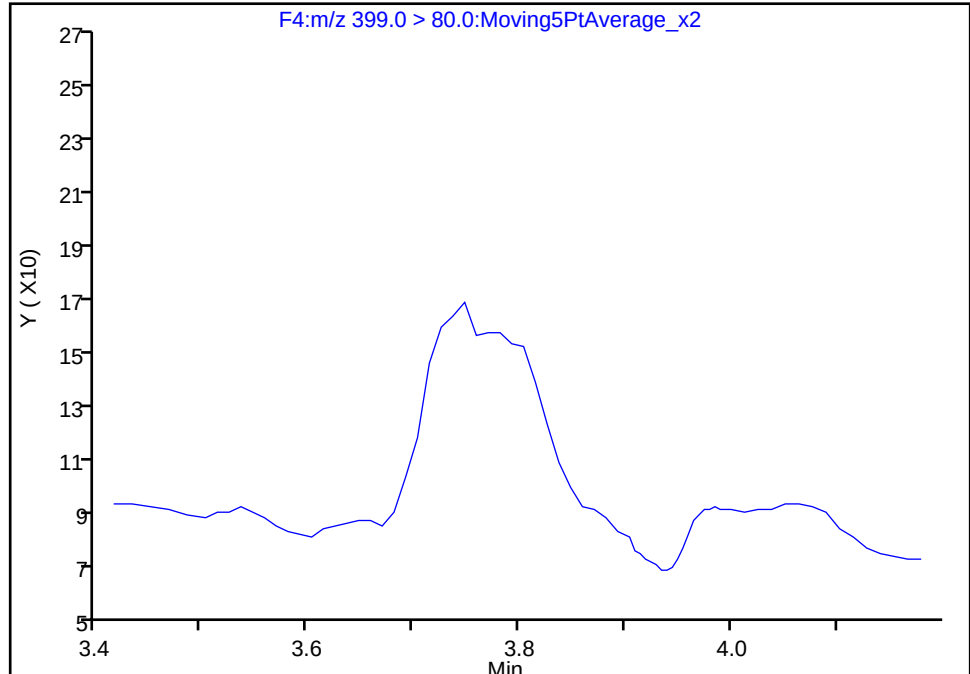
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F4:MRM       |                |    |

**12 Perfluorohexanesulfonic acid, CAS: 355-46-4**

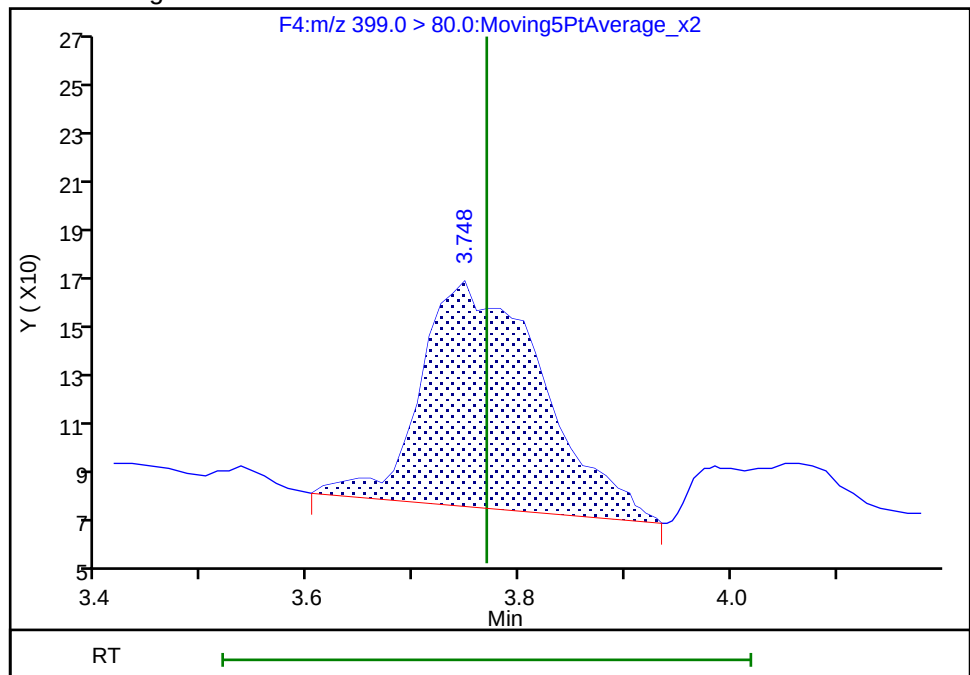
Signal: 1

Not Detected  
Expected RT: 3.77

## Processing Integration Results



## Manual Integration Results

RT: 3.75  
Area: 728  
Amount: 0.168714  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:34:59

Audit Action: Manually Integrated

Audit Reason: Missed Peak



## TestAmerica Burlington

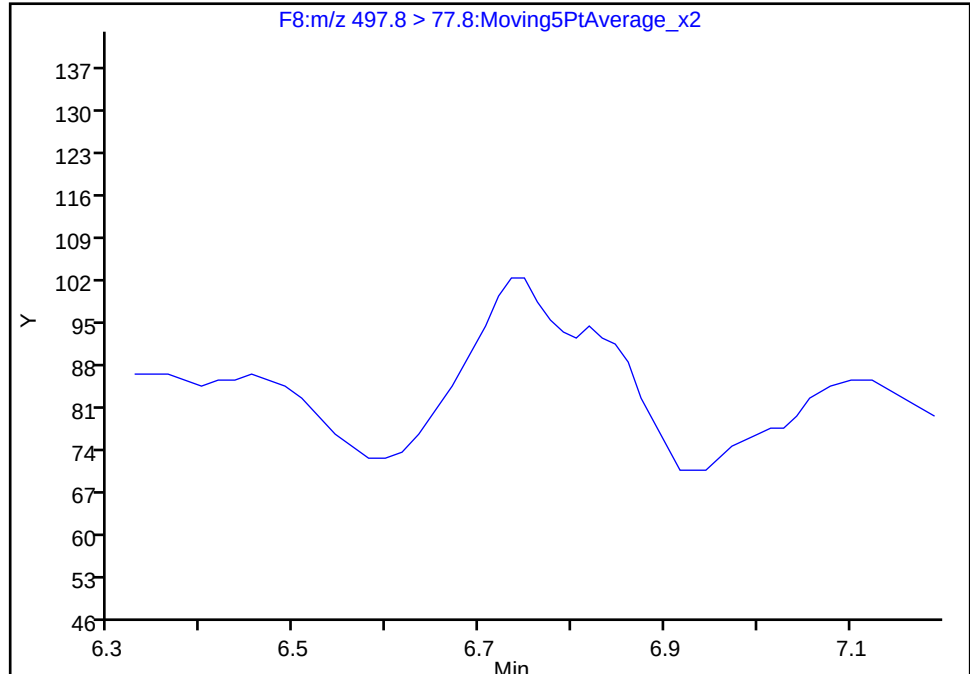
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F8:MRM       |                |    |

**34 Perfluorooctanesulfonamide, CAS: 754-91-6**

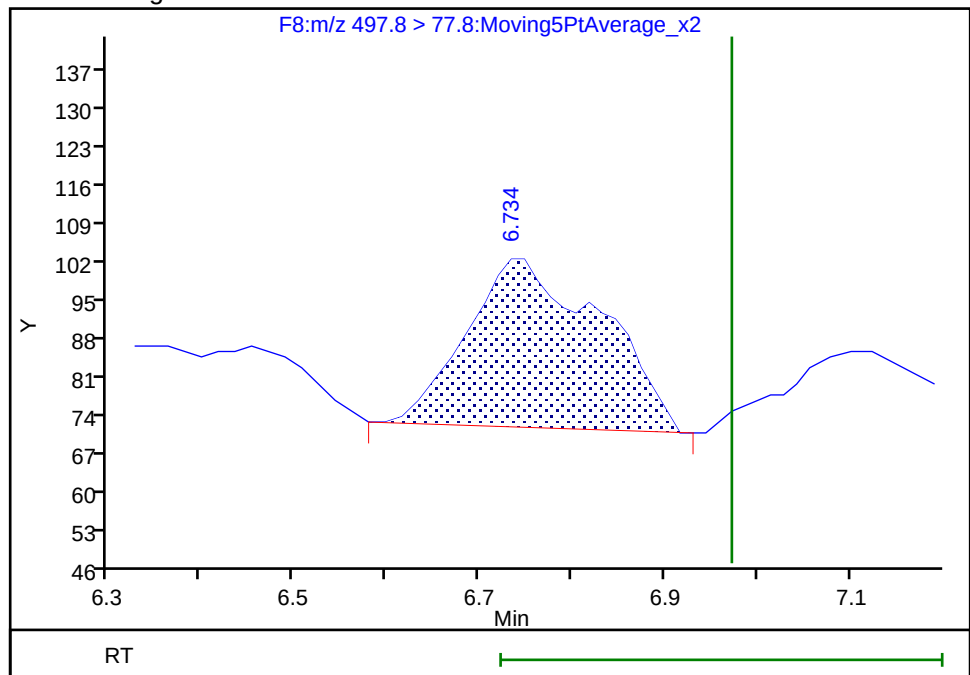
Signal: 1

Not Detected  
Expected RT: 6.97

## Processing Integration Results



## Manual Integration Results

RT: 6.73  
Area: 313  
Amount: 0.143501  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:34:20

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

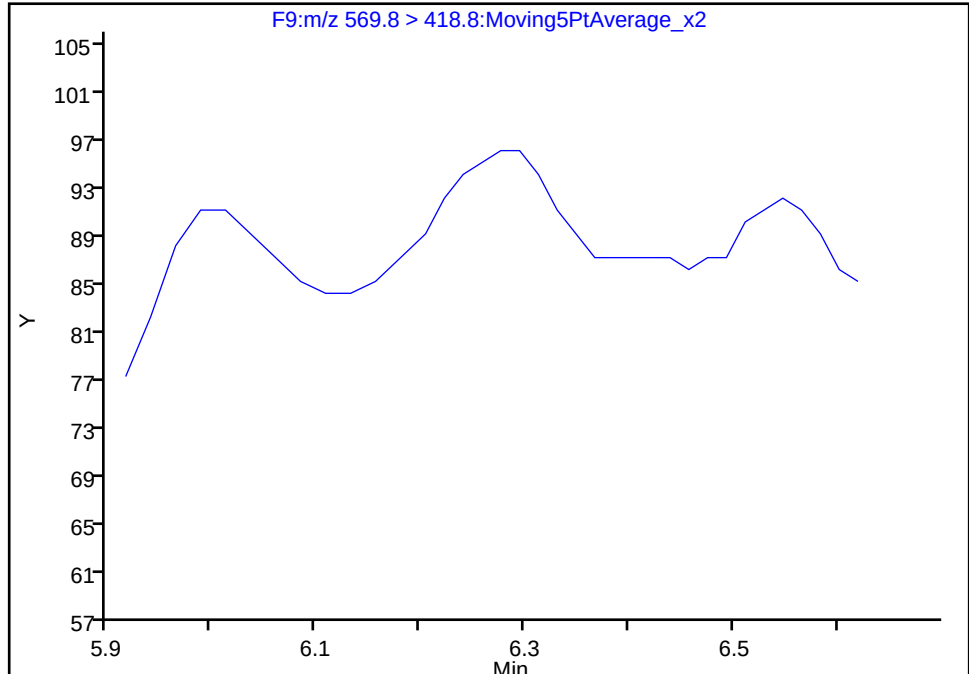
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F9:MRM       |                |    |

**28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9**

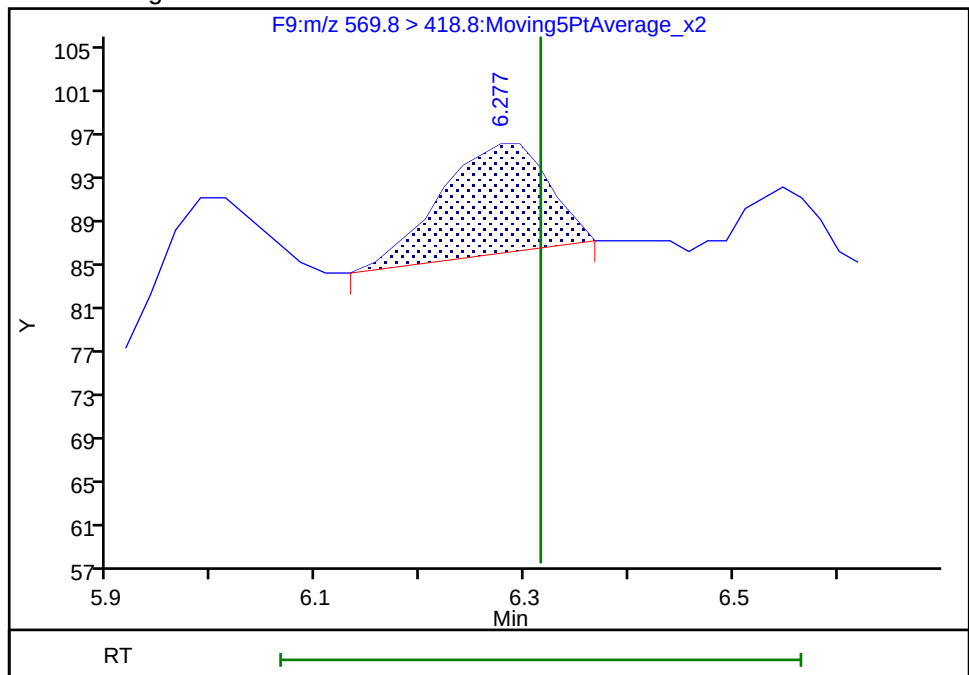
Signal: 1

Not Detected  
Expected RT: 6.32

## Processing Integration Results

RT: 6.28  
Area: 73  
Amount: 0.018588  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:34:27

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

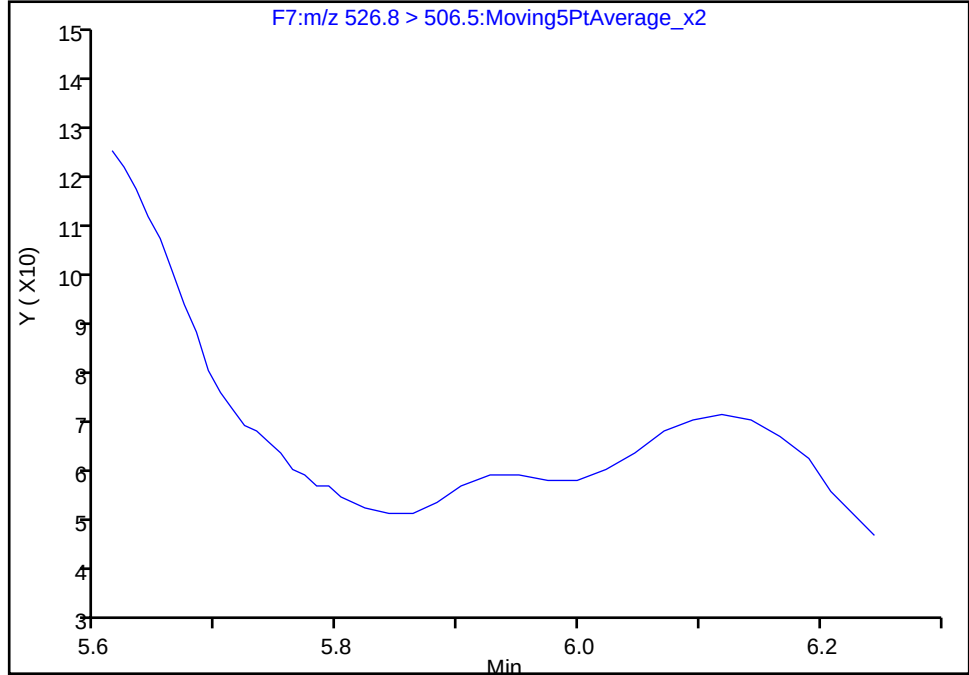
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F7:MRM       |                |    |

23 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

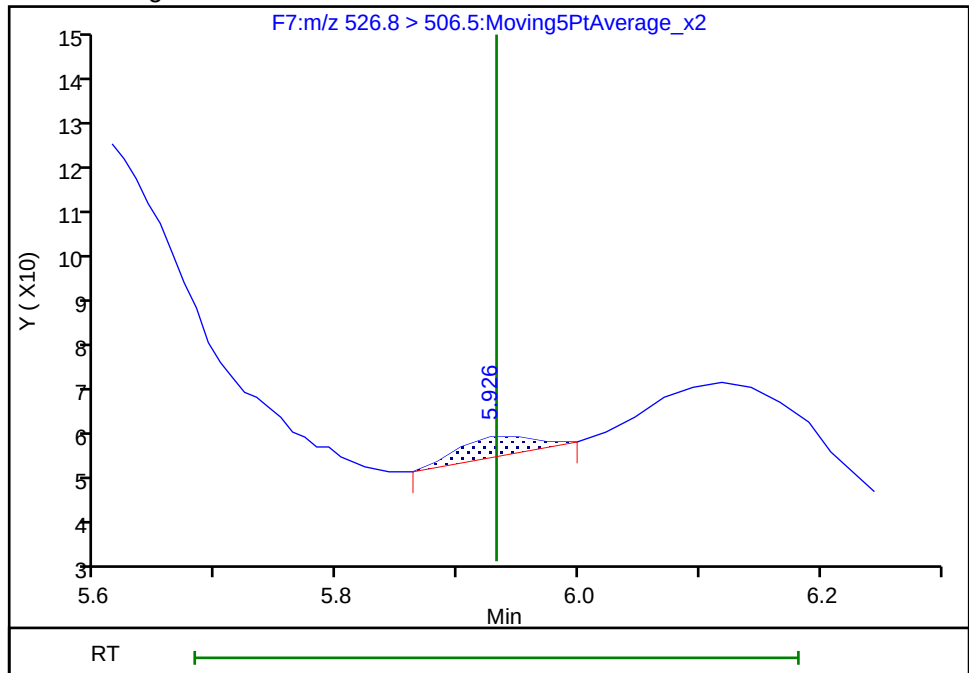
Signal: 1

Not Detected  
Expected RT: 5.93

## Processing Integration Results



## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:34:37

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

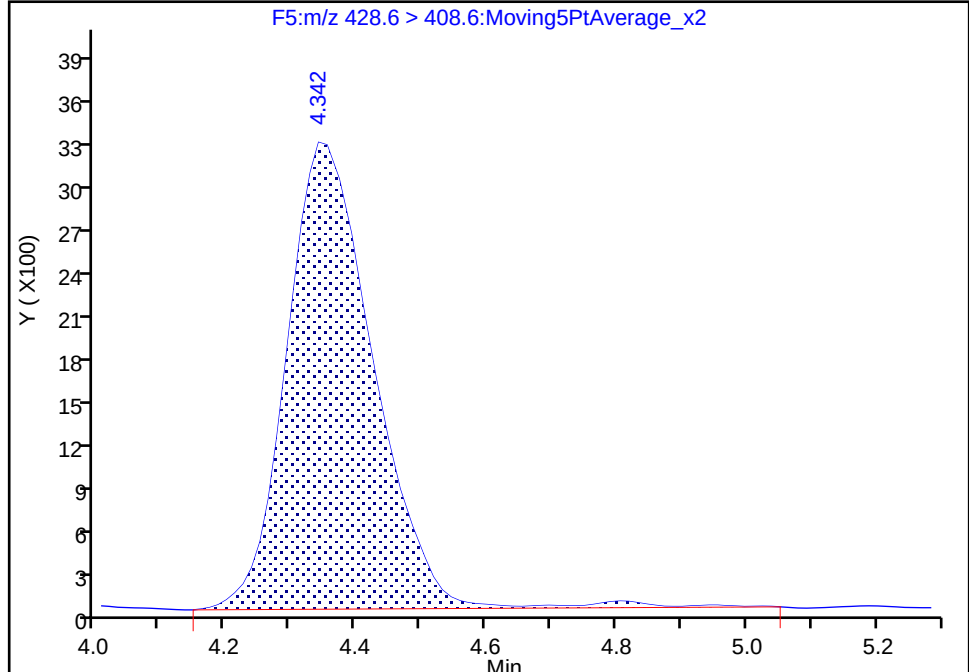
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:26:56                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-C-5-A                                                    | Lab Sample ID: | 200-165769-5 |                |    |
| Client ID:      | FB1 09262018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 21 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F5:MRM       |                |    |

**D 13 M2-6:2 FTS, CAS: STL02279**

Signal: 1

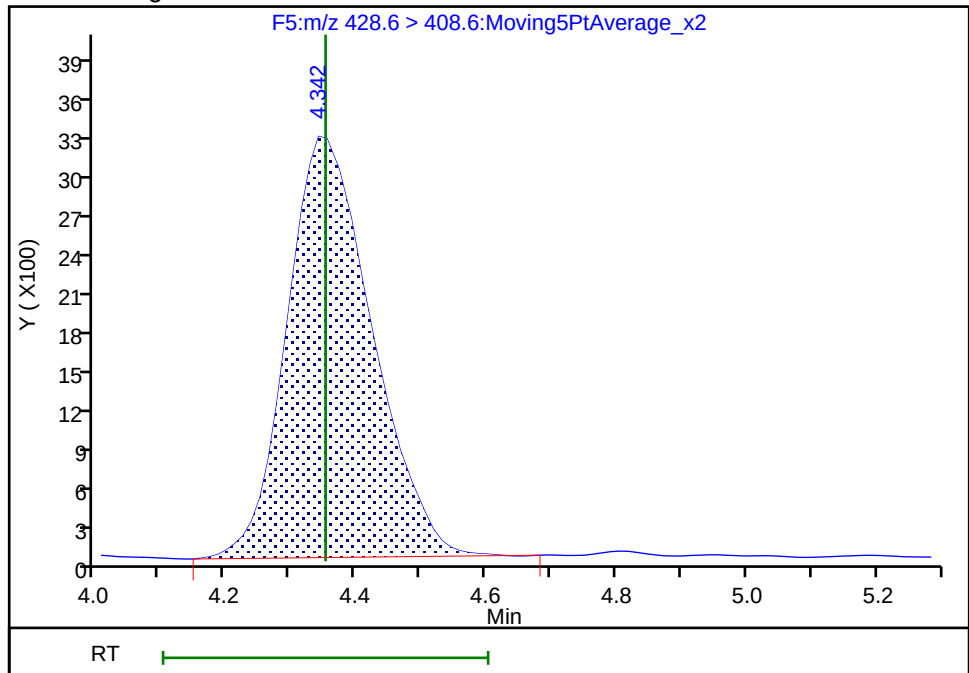
RT: 4.34  
Area: 29698  
Amount: 49.364084  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.34  
Area: 29076  
Amount: 48.330194  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:33:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

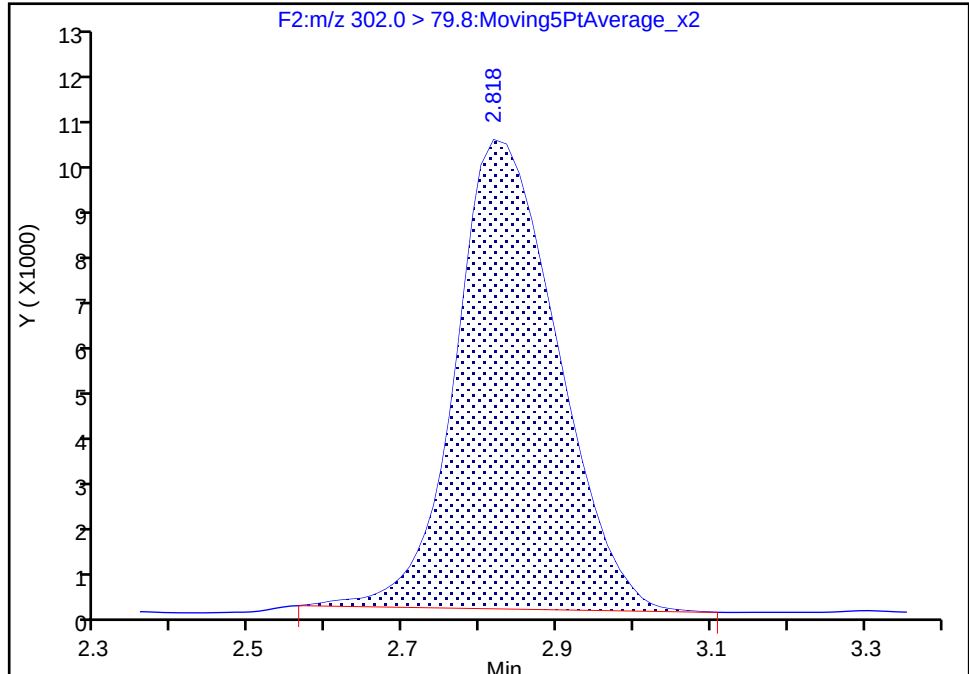
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A21.d  
Injection Date: 12-Oct-2018 21:26:56 Instrument ID: LC410  
Lims ID: 460-165769-C-5-A Lab Sample ID: 200-165769-5  
Client ID: FB1 09262018  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

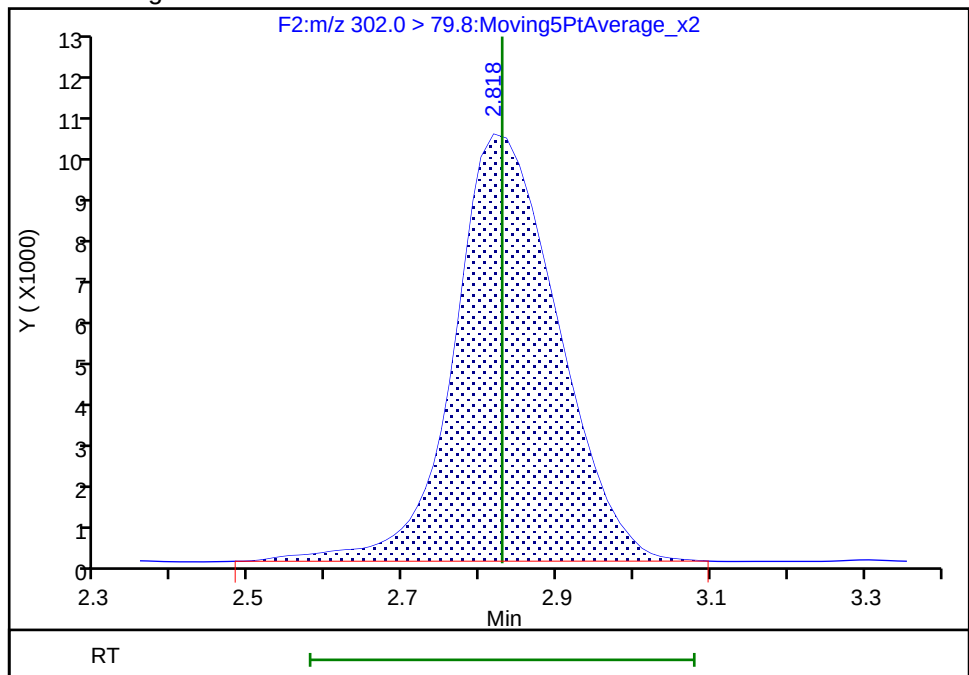
RT: 2.82  
Area: 91567  
Amount: 33.487961  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.82  
Area: 93955  
Amount: 34.361302  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:33:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                           |                                            |
|-------------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u>   | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                            |                                            |
| Client Sample ID: <u>FSMW-8A 09272018</u> | Lab Sample ID: <u>460-165769-6</u>         |
| Matrix: <u>Water</u>                      | Lab File ID: <u>PF101218A22.d</u>          |
| Analysis Method: <u>537 (modified)</u>    | Date Collected: <u>09/27/2018 11:00</u>    |
| Extraction Method: <u>3535</u>            | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>270.4 (mL)</u>          | Date Analyzed: <u>10/12/2018 21:42</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>        | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>          | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                         | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>         | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q   | RL   | MDL  |
|------------|----------------------------------------------------------|--------|-----|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 11.9   | B   | 1.85 | 0.38 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 18.2   |     | 1.85 | 0.69 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 13.1   |     | 1.85 | 0.22 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 12.0   |     | 1.85 | 0.30 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 19.2   |     | 1.85 | 0.30 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 3.60   |     | 1.85 | 0.35 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 0.57   | J   | 1.85 | 0.35 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 0.32   | J B | 1.85 | 0.23 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 0.32   | U   | 1.85 | 0.32 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 0.22   | U   | 1.85 | 0.22 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 0.42   | U   | 1.85 | 0.42 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 5.76   |     | 1.85 | 0.41 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 1.20   | J B | 1.85 | 0.24 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.76   | U   | 1.85 | 0.76 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 4.15   |     | 1.85 | 0.70 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 0.49   | U   | 1.85 | 0.49 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 0.52   | U   | 1.85 | 0.52 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.42   | U   | 18.5 | 0.42 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.65   | U   | 18.5 | 0.65 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.92   | U   | 18.5 | 0.92 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.52   | U   | 18.5 | 0.52 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                           |                                            |
|-------------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u>   | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                            |                                            |
| Client Sample ID: <u>FSMW-8A 09272018</u> | Lab Sample ID: <u>460-165769-6</u>         |
| Matrix: <u>Water</u>                      | Lab File ID: <u>PF101218A22.d</u>          |
| Analysis Method: <u>537 (modified)</u>    | Date Collected: <u>09/27/2018 11:00</u>    |
| Extraction Method: <u>3535</u>            | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>270.4 (mL)</u>          | Date Analyzed: <u>10/12/2018 21:42</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>        | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>          | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                         | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>         | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 88   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 76   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 100  |   | 25-150 |
| STL00991 | 13C4 PFOS        | 92   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 103  |   | 25-150 |
| STL00992 | 13C4 PFBA        | 22   | * | 25-150 |
| STL00993 | 13C2 PFHxA       | 45   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 107  |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 111  |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 99   |   | 25-150 |
| STL01056 | 13C8 FOSA        | 67   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 39   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 104  |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 83   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 91   |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 217  | * | 25-150 |
| STL02280 | M2-8:2 FTS       | 209  | * | 25-150 |
| STL02337 | 13C3 PFBS        | 70   |   | 25-150 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d  
 Lims ID: 460-165769-D-6-A  
 Client ID: FSMW-8A 09272018  
 Sample Type: Client  
 Inject. Date: 12-Oct-2018 21:42:46 ALS Bottle#: 0 Worklist Smp#: 22  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-022 6  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:43:45 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
 Column 1 : Det: F1:MRM  
 Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:37:46

| Signal                          | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                   |       |        |        |        |          |              |               |      |      |       |
| 216.9 > 171.5                   | 2.306 | 2.326  | -0.020 | 1.000  | 73647    | 11.0         |               | 21.9 | 54.2 |       |
| 2 Perfluorobutanoic acid        |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                   | 2.318 | 2.344  | -0.026 | 1.005  | 9064     | 6.42         |               |      | 9.1  | M     |
| D 3 13C5 PFPeA                  |       |        |        |        |          |              |               |      |      | M     |
| 267.7 > 222.6                   | 2.719 | 2.763  | -0.044 | 1.000  | 31499    | 19.5         |               | 39.1 | 19.3 | M     |
| 4 Perfluoropentanoic acid       |       |        |        |        |          |              |               |      |      | M     |
| 262.9 > 218.8                   | 2.729 | 2.763  | -0.034 | 1.004  | 41952    | 9.83         |               |      | 39.6 | M     |
| D 6 13C3 PFBS                   |       |        |        |        |          |              |               |      |      |       |
| 302.0 > 79.8                    | 2.781 | 2.829  | -0.048 | 1.000  | 76784    | 32.6         |               | 70.0 | 142  |       |
| 5 Perfluorobutanesulfonic acid  |       |        |        |        |          |              |               |      |      | M     |
| 298.9 > 80.0                    | 2.781 | 2.830  | -0.049 | 1.000  | 10452    | 3.11         |               |      | 20.8 | M     |
| D 7 13C2 PFHxA                  |       |        |        |        |          |              |               |      |      | M     |
| 314.8 > 269.6                   | 3.127 | 3.188  | -0.061 | 1.000  | 110154   | 22.4         |               | 44.9 | 317  | M     |
| 8 Perfluorohexanoic acid        |       |        |        |        |          |              |               |      |      | M     |
| 312.8 > 268.6                   | 3.127 | 3.189  | -0.062 | 1.000  | 16576    | 7.08         |               |      | 20.3 | M     |
| D 9 13C4 PFHpA                  |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                   | 3.670 | 3.725  | -0.055 | 1.000  | 545671   | 38.0         |               | 75.9 | 1721 |       |
| 10 Perfluoroheptanoic acid      |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                   | 3.670 | 3.728  | -0.058 | 1.000  | 71116    | 6.48         |               |      | 117  |       |
| 12 Perfluorohexanesulfonic acid |       |        |        |        |          |              |               |      |      | M     |
| 399.0 > 80.0                    | 3.715 | 3.769  | -0.054 | 1.000  | 3037     | 0.6509       |               |      | 16.0 | M     |
| D 11 18O2 PFHxS                 |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                    | 3.715 | 3.770  | -0.055 | 1.000  | 118275   | 41.6         |               | 88.0 | 581  |       |
| D 13 M2-6:2 FTS                 |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                   | 4.317 | 4.353  | -0.036 | 1.000  | 53553    | 103.2        |               | 217  | 396  |       |
| * 15 13C2 PFOA                  |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                   | 4.355 | 4.401  | -0.046 |        | 623106   | 50.0         |               |      | 2869 |       |



| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                         | 4.355 | 4.407  | -0.052 | 1.000  | 576405   | 50.0         |               | 99.9 | 3555 |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 412.9 > 368.8                         | 4.355 | 4.409  | -0.054 | 1.000  | 125152   | 10.4         |               |      | 778  |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |      |      |       |
| 448.8 > 79.8                          | 4.355 | 4.441  | -0.086 | 0.845  | 382      | 0.1973       |               |      | 3.4  | M     |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |      |      |       |
| 467.8 > 422.8                         | 5.140 | 5.171  | -0.031 | 1.000  | 758020   | 51.4         |               | 103  | 1736 |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 462.8 > 418.8                         | 5.140 | 5.175  | -0.035 | 1.000  | 39536    | 1.95         |               |      | 160  |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |      |      |       |
| 502.8 > 79.8                          | 5.154 | 5.195  | -0.041 | 1.000  | 105310   | 44.2         |               | 92.4 | 456  |       |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 498.8 > 79.8                          | 5.127 | 5.197  | -0.070 | 0.995  | 5112     | 2.25         |               |      | 34.4 |       |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 528.8 > 508.8                         | 5.902 | 5.929  | -0.027 | 1.000  | 391294   | 100.3        |               | 209  | 1040 |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 526.8 > 506.5                         | 5.773 | 5.932  | -0.159 | 0.978  | 244      | 0.0415       |               |      | 1.3  | M     |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |      |      |       |
| 514.9 > 469.5                         | 5.926 | 5.950  | -0.024 | 1.000  | 866419   | 53.6         |               | 107  | 1741 |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 512.9 > 468.5                         | 5.950 | 5.956  | -0.006 | 1.004  | 4929     | 0.3099       |               |      | 11.5 | M     |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 572.8 > 418.8                         | 6.295 | 6.311  | -0.016 | 1.000  | 188585   | 41.4         |               | 82.8 | 1425 |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |      |      |       |
| 569.8 > 418.8                         | 6.295 | 6.315  | -0.020 | 1.000  | 249      | 0.0625       |               |      | 2.7  | M     |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 588.9 > 418.8                         | 6.670 | 6.674  | -0.004 | 1.000  | 180307   | 45.6         |               | 91.1 | 1083 |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |      |      |       |
| 583.9 > 418.8                         | 6.762 | 6.697  | 0.065  | 1.014  | 147      | 0.0415       |               |      | 1.1  | M     |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |      |      |       |
| 564.8 > 519.8                         | 6.706 | 6.720  | -0.014 | 1.000  | 1027927  | 55.4         |               | 111  | 2193 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 562.8 > 518.6                         | 6.688 | 6.720  | -0.032 | 0.997  | 3157     | 0.1733       |               |      | 16.0 | M     |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |      |      |       |
| 505.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 140736   | 33.3         |               | 66.6 | 684  |       |
| D 37 13C2 PFDaA                       |       |        |        |        |          |              |               |      |      |       |
| 614.8 > 569.6                         | 7.384 | 7.402  | -0.018 | 1.000  | 1003273  | 49.4         |               | 98.8 | 1716 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 612.8 > 568.6                         | 7.339 | 7.407  | -0.068 | 0.994  | 557      | 0.0321       |               |      | 4.5  | M     |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |      |      |       |
| 662.8 > 618.6                         | 8.012 | 8.020  | -0.008 | 0.936  | 1074     | 0.0560       |               |      | 7.0  | M     |
| D 40 13C2 PFTeDA                      |       |        |        |        |          |              |               |      |      |       |
| 714.8 > 669.6                         | 8.560 | 8.563  | -0.003 | 1.000  | 1029873  | 52.2         |               | 104  | 944  |       |

## QC Flag Legend

### Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d

Injection Date: 12-Oct-2018 21:42:46

Instrument ID: LC410

Lims ID: 460-165769-D-6-A

Lab Sample ID: 200-165769-6

Client ID: FSMW-8A 09272018

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 22

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

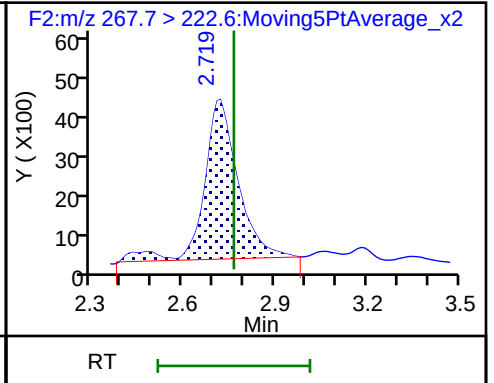
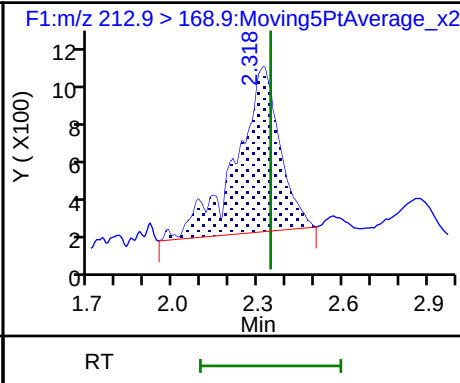
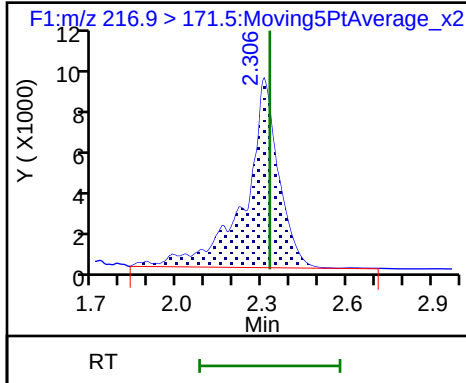
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

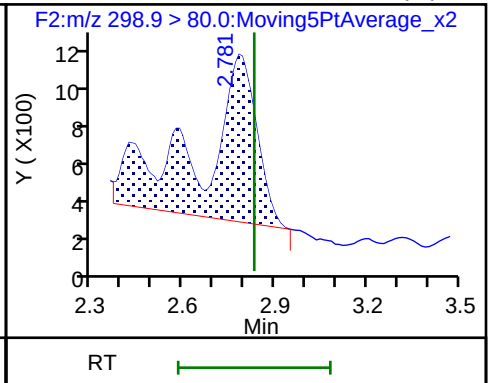
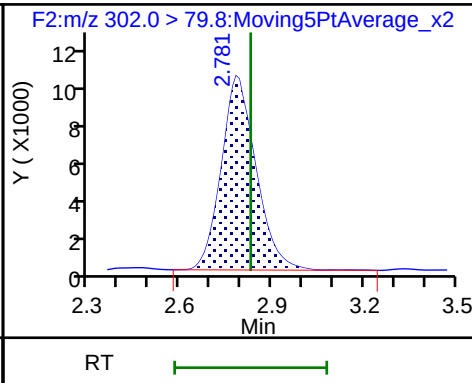
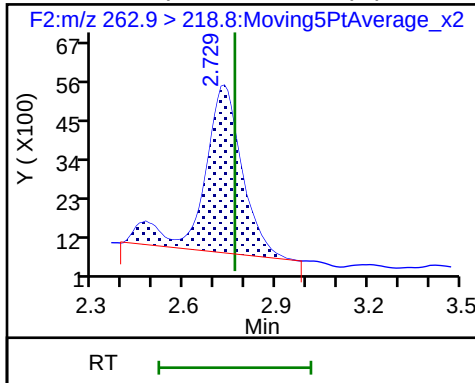
D 3 13C5 PFPeA (M)



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS

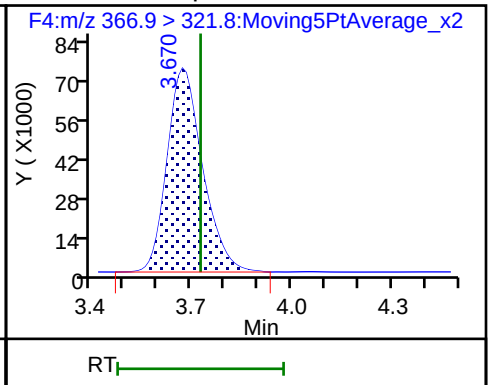
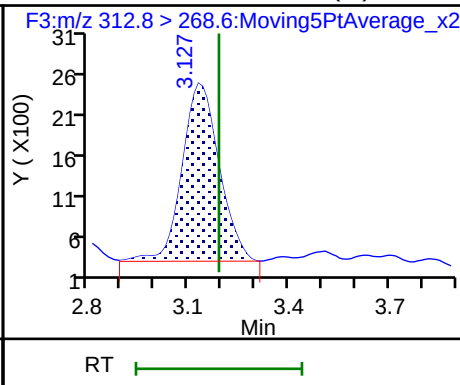
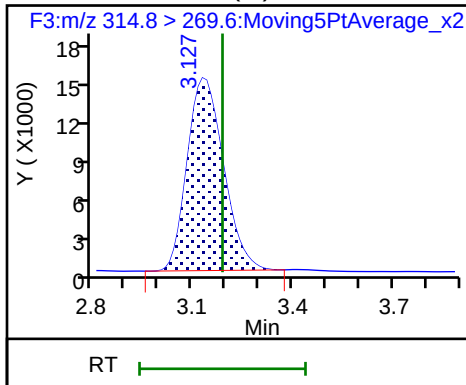
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA (M)

8 Perfluorohexanoic acid (M)

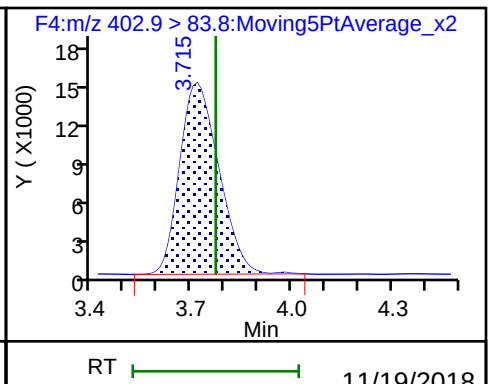
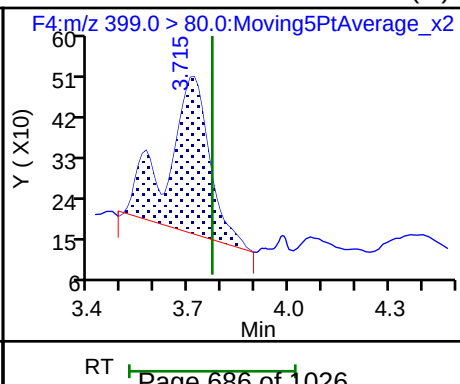
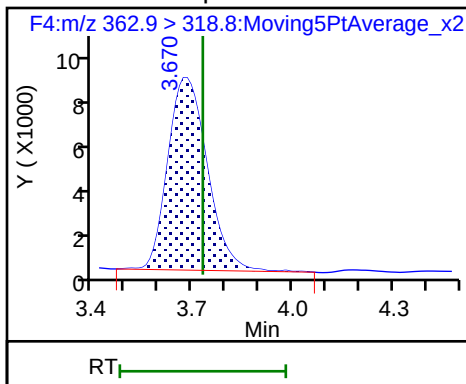
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid (M)

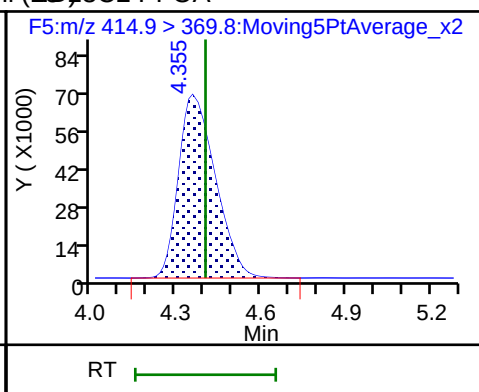
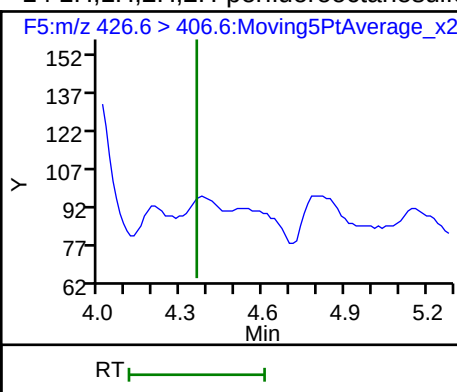
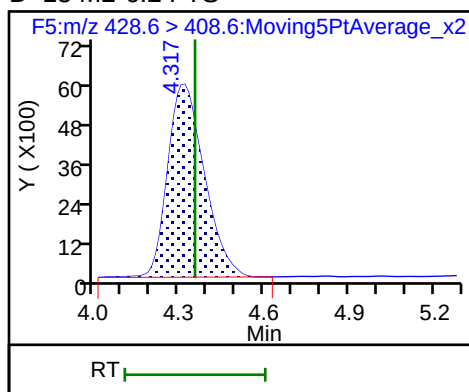
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate (M)

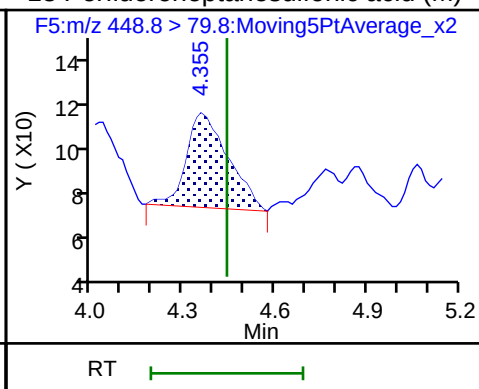
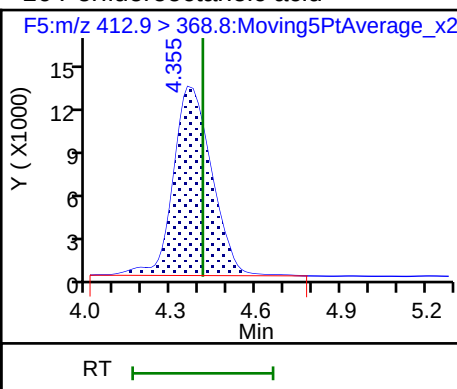
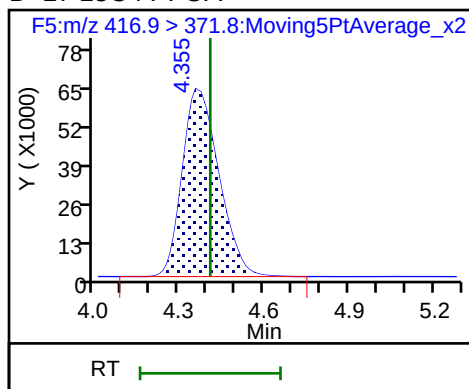
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

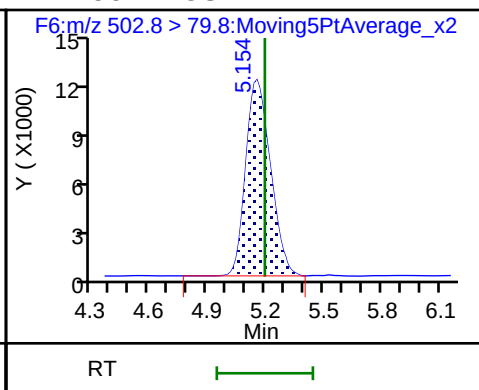
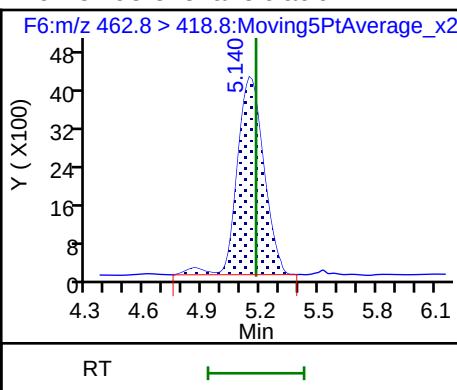
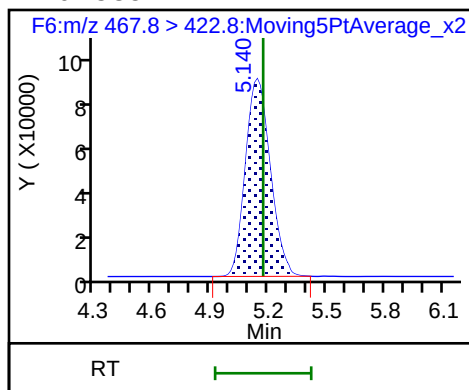
18 Perfluoroheptanesulfonic acid (M)



D 20 13C5 PFNA

19 Perfluorononanoic acid

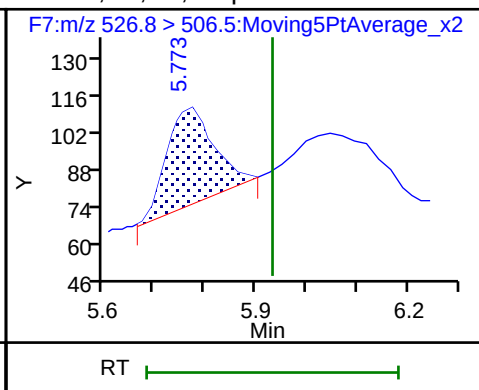
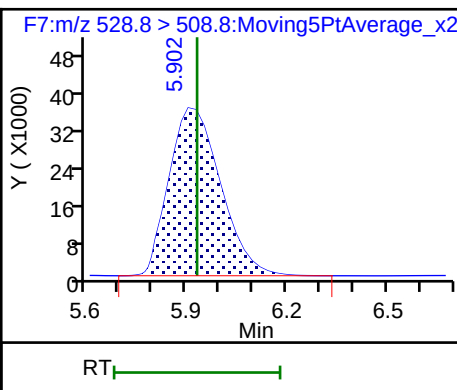
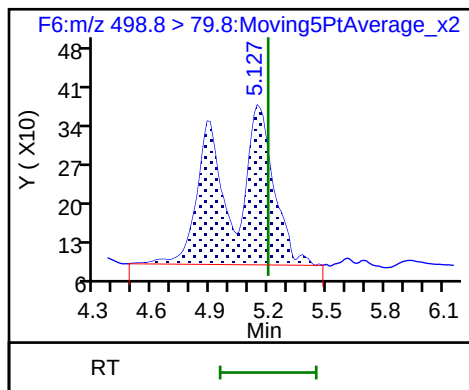
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid

D 24 M2-8:2 FTS

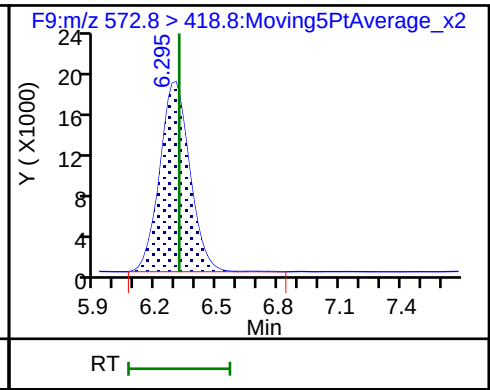
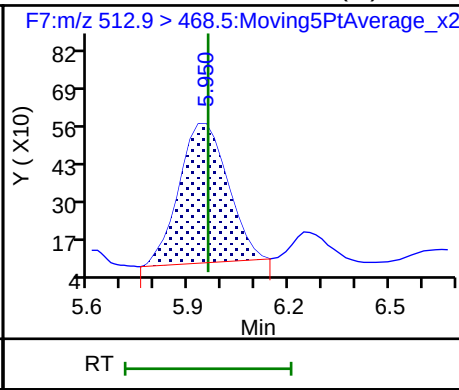
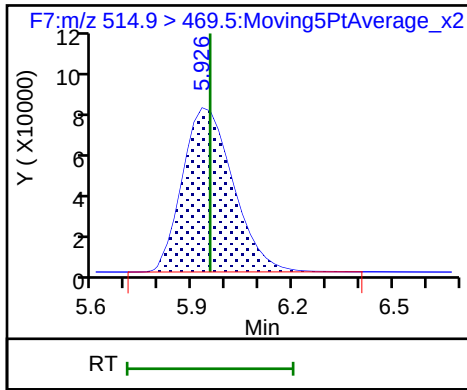
23 1H,1H,2H,2H-perfluorodecanesulfonate (M)



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid (M)

## D 27 d3-NMeFOSAA

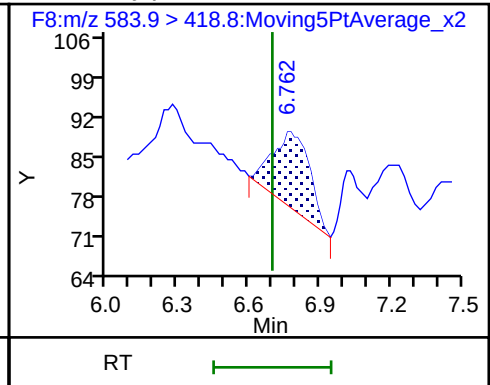
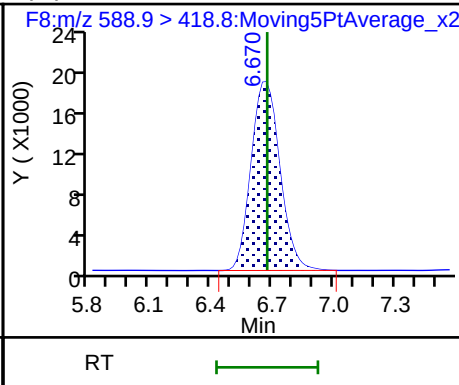
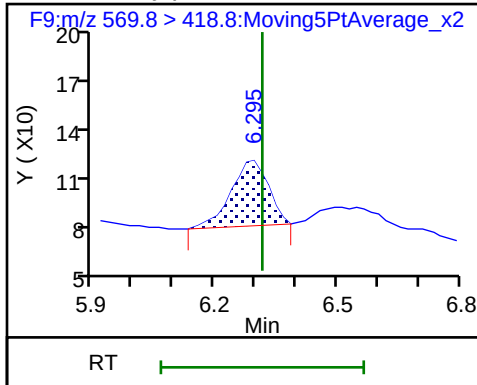


## 28 N-methylperfluorooctanesulfonamide (ND)

D 29

d5-NEtFOSAA

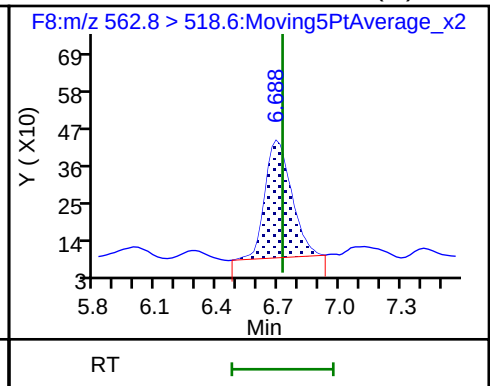
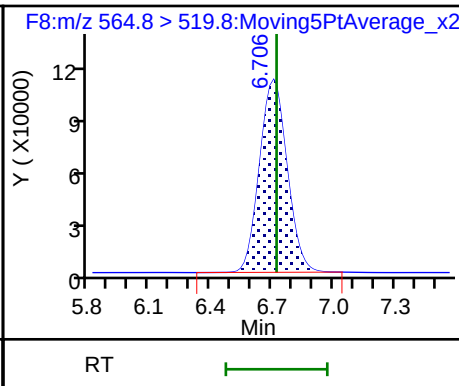
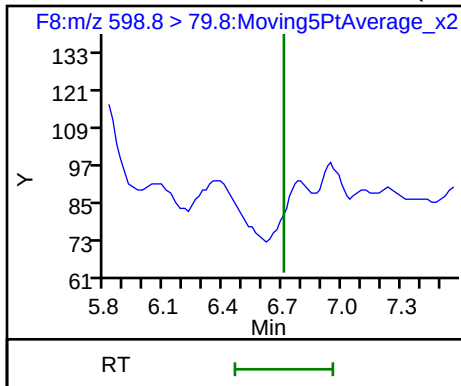
## 30 N-ethylperfluorooctanesulfonamide (M)



## 31 Perfluorodecanesulfonic acid (ND)

D 32 13C2 PFUnA

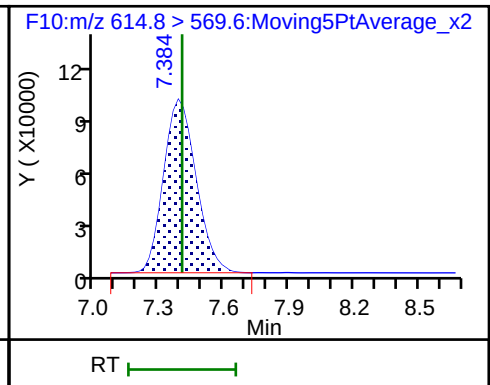
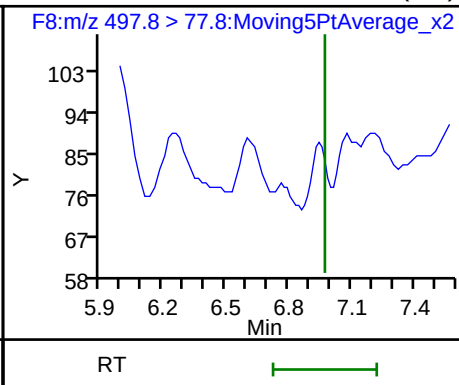
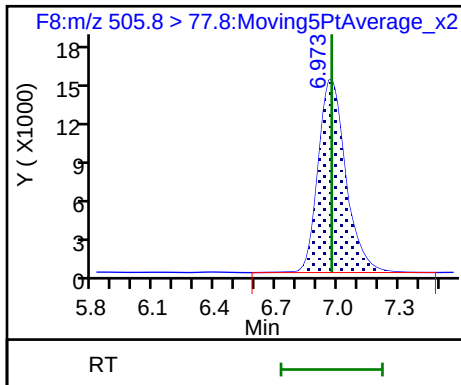
## 33 Perfluoroundecanoic acid (M)



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide (ND)

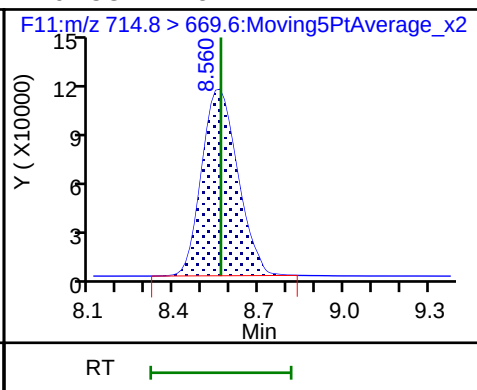
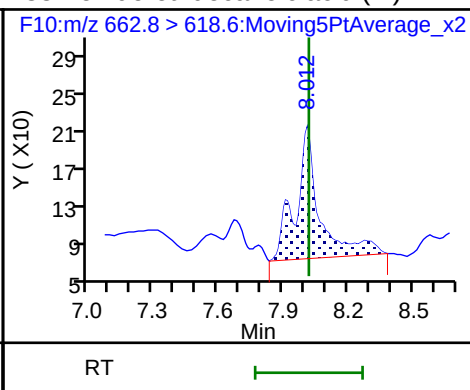
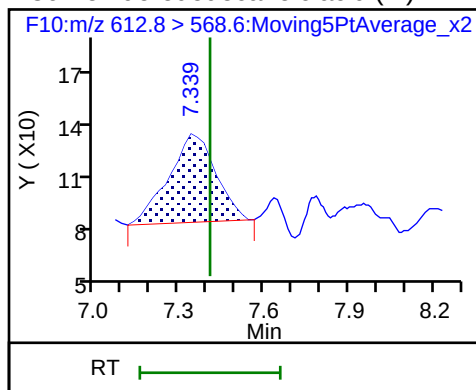
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid (M)

## 38 Perfluorotridecanoic acid (M)

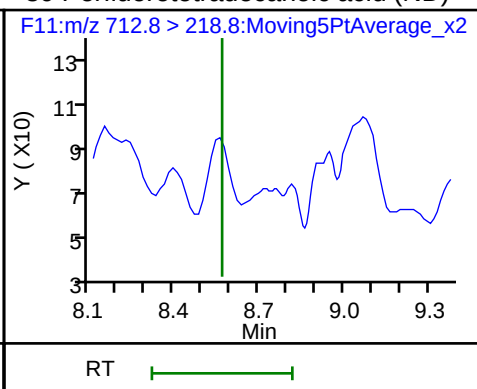
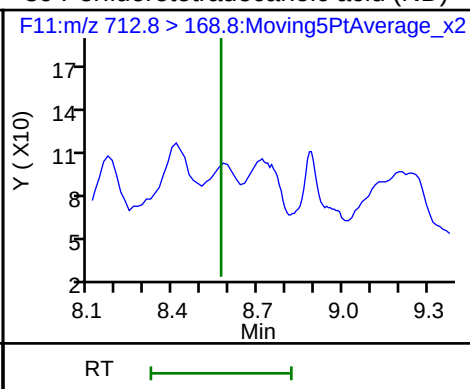
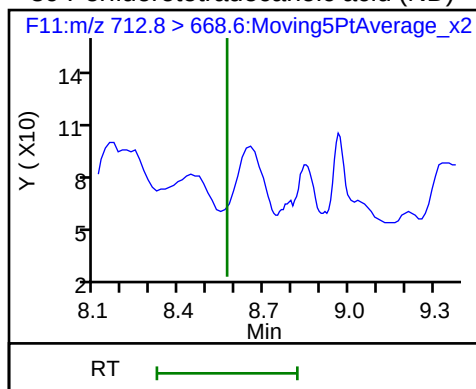
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid (ND)

## 39 Perfluorotetradecanoic acid (ND)

## 39 Perfluorotetradecanoic acid (ND)



## TestAmerica Burlington

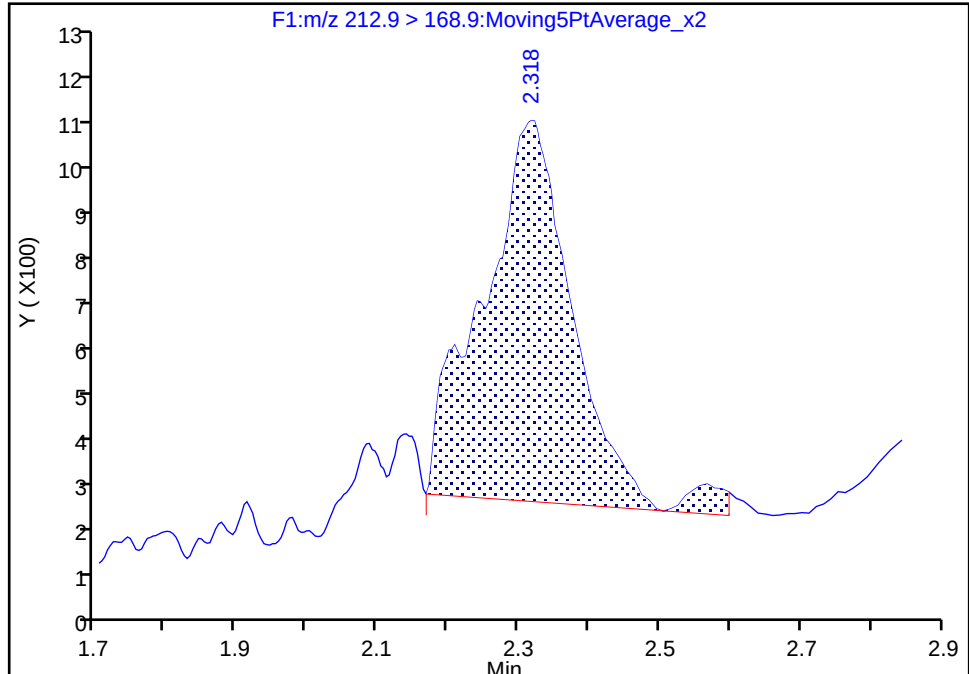
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Lims ID: 460-165769-D-6-A Lab Sample ID: 200-165769-6  
Client ID: FSMW-8A 09272018  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

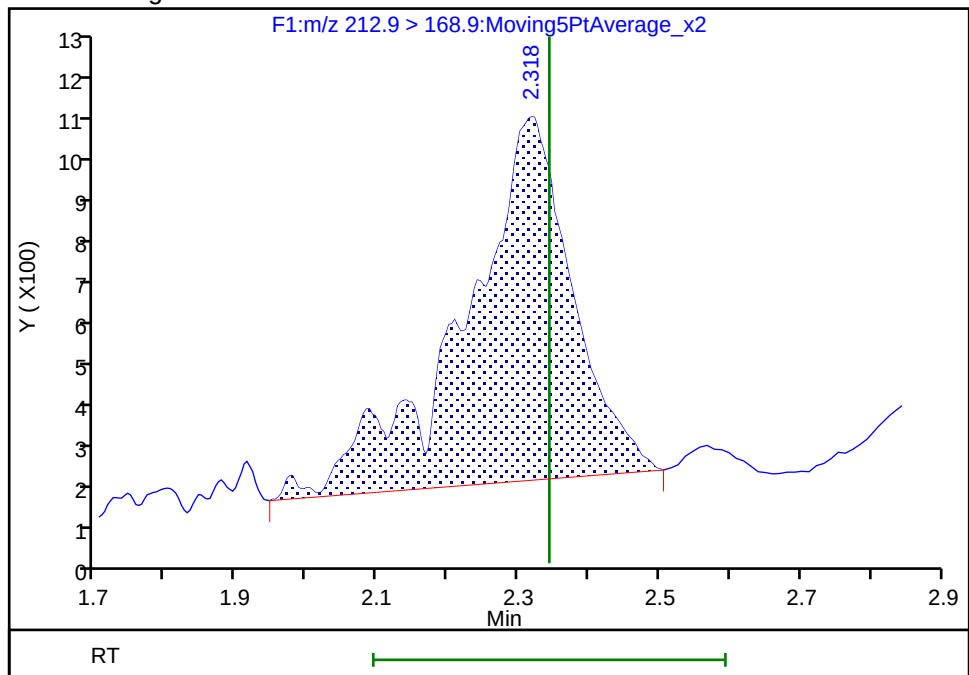
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Amount: 5.080051  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.32  
Area: 9064  
Amount: 6.422874  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:35:30  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

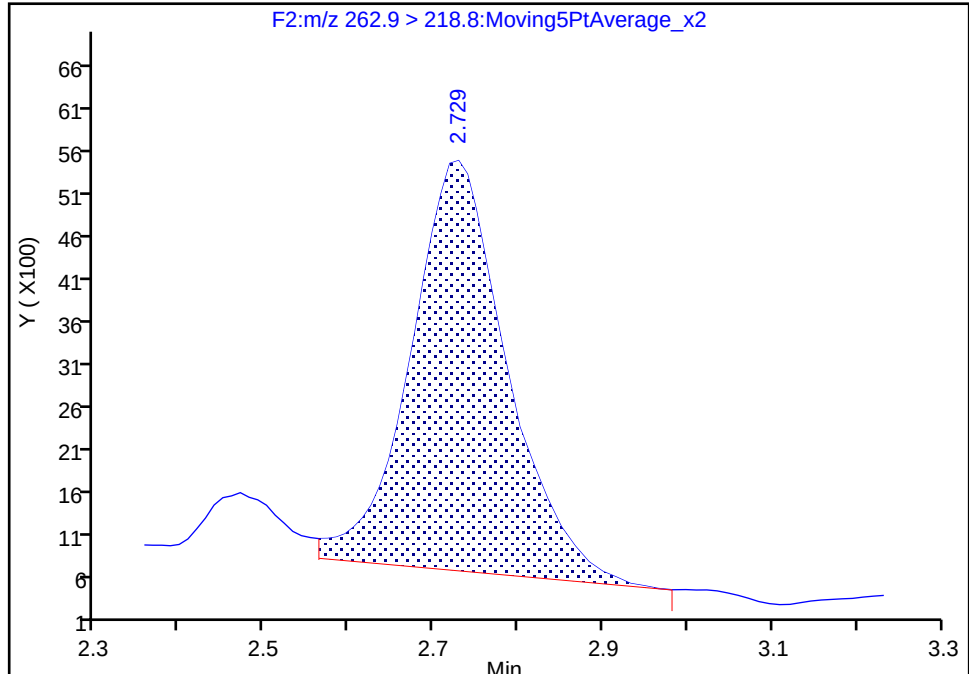
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

Signal: 1

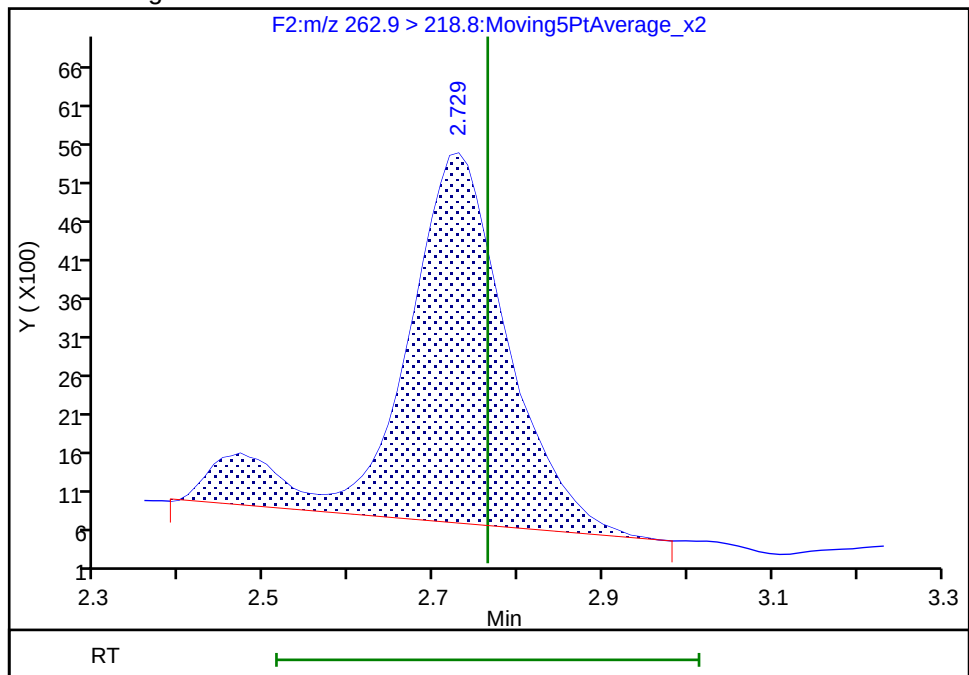
RT: 2.73  
Area: 38223  
Amount: 8.960218  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.73  
Area: 41952  
Amount: 9.834368  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:35:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

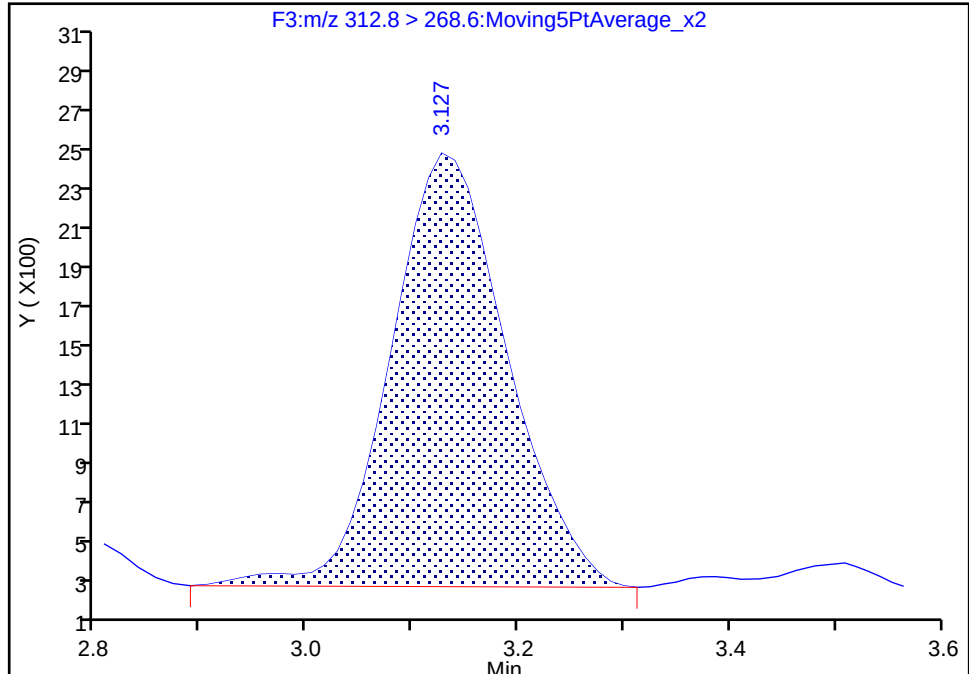
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F3:MRM       |                |    |

**8 Perfluorohexanoic acid, CAS: 307-24-4**

Signal: 1

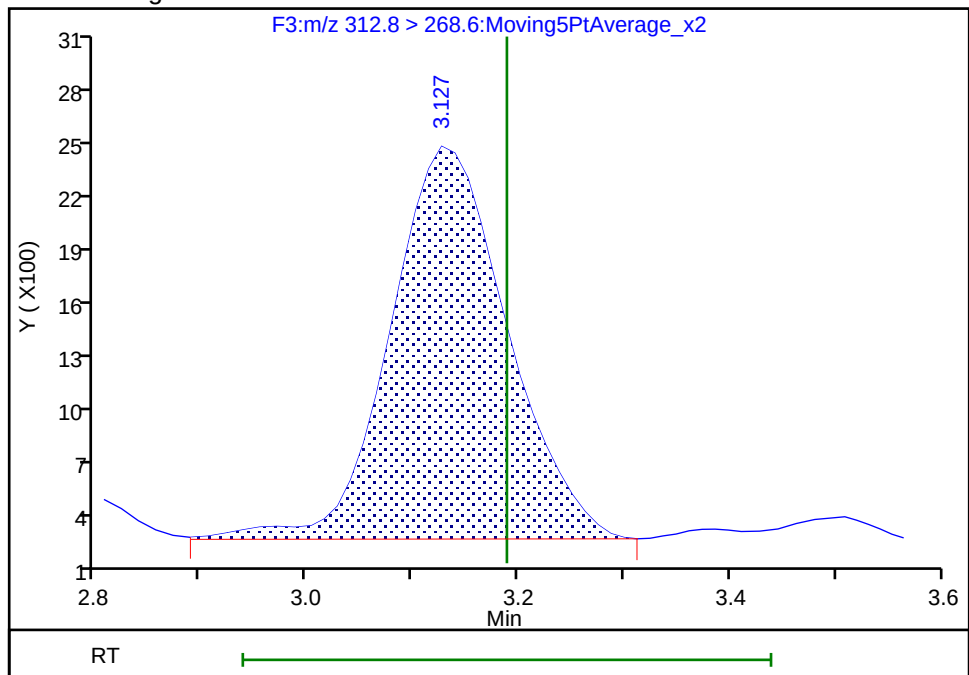
RT: 3.13  
Area: 16453  
Amount: 7.027021  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.13  
Area: 16576  
Amount: 7.079553  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:35:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

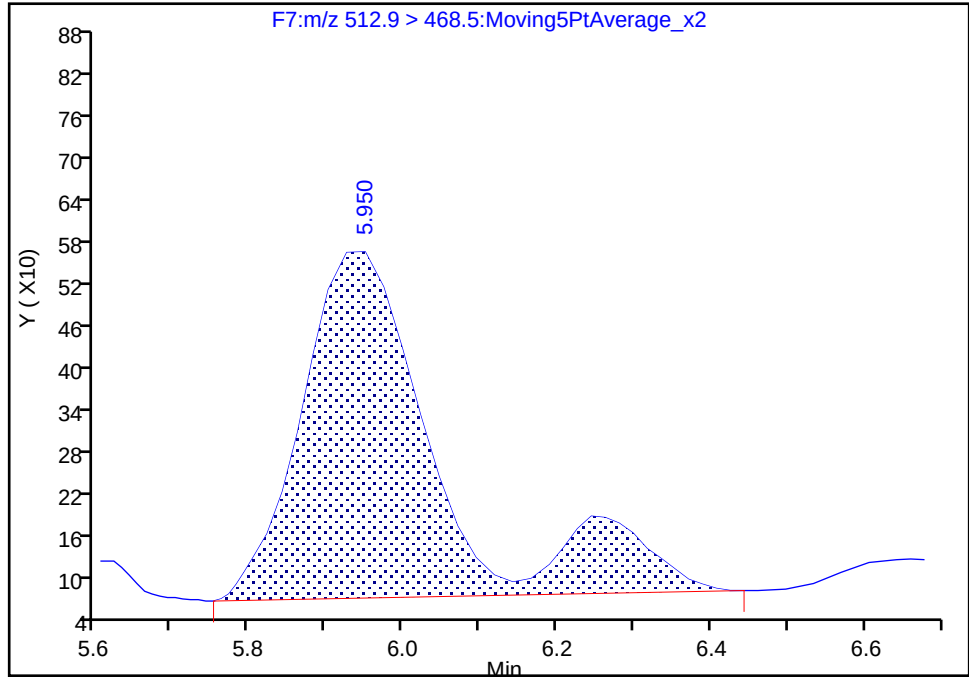
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F7:MRM       |                |    |

**25 Perfluorodecanoic acid, CAS: 335-76-2**

Signal: 1

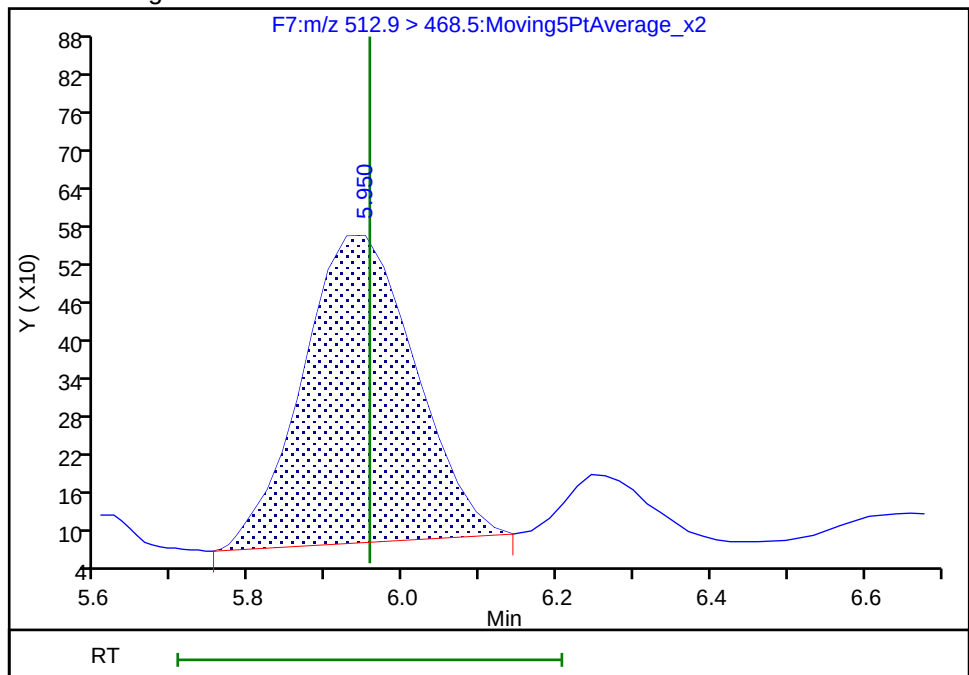
RT: 5.95  
Area: 6046  
Amount: 0.374577  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.95  
Area: 4929  
Amount: 0.309892  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:36:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

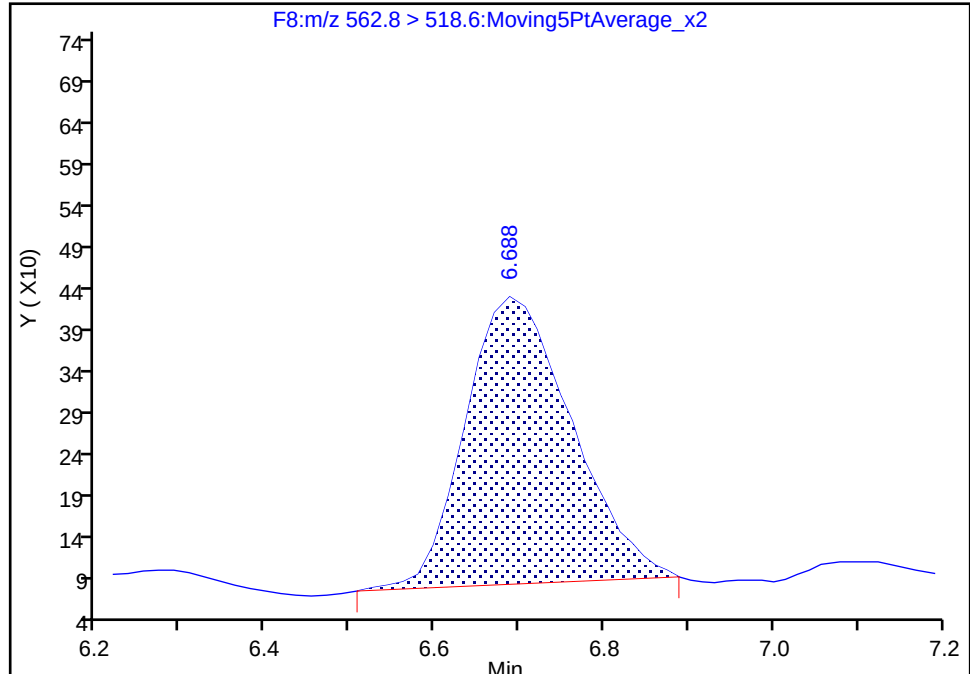
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F8:MRM       |                |    |

**33 Perfluoroundecanoic acid, CAS: 2058-94-8**

Signal: 1

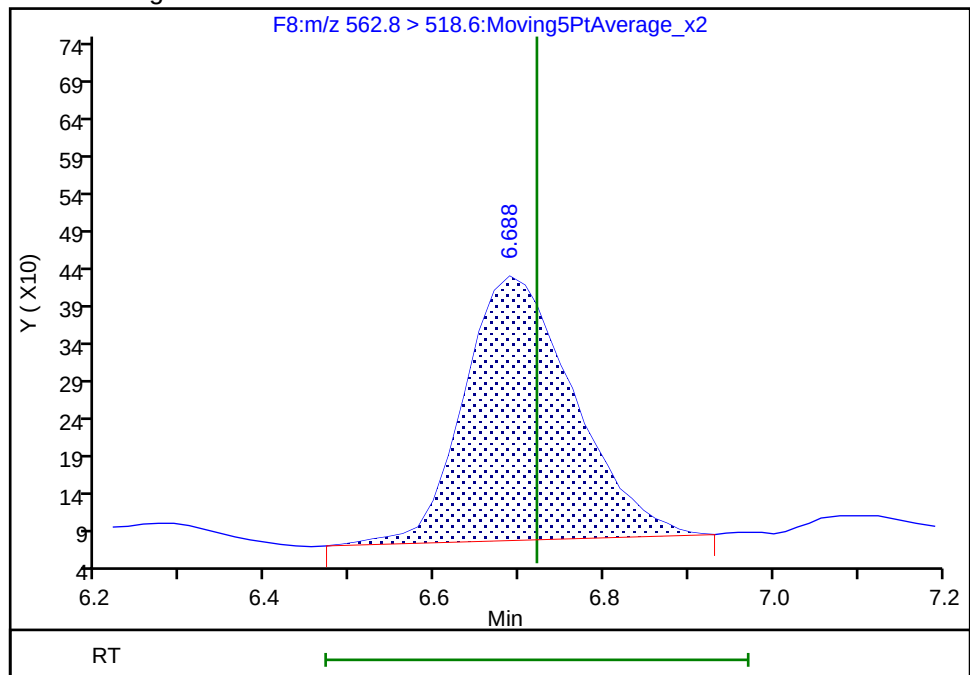
RT: 6.69  
Area: 3006  
Amount: 0.165048  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.69  
Area: 3157  
Amount: 0.173339  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:36:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

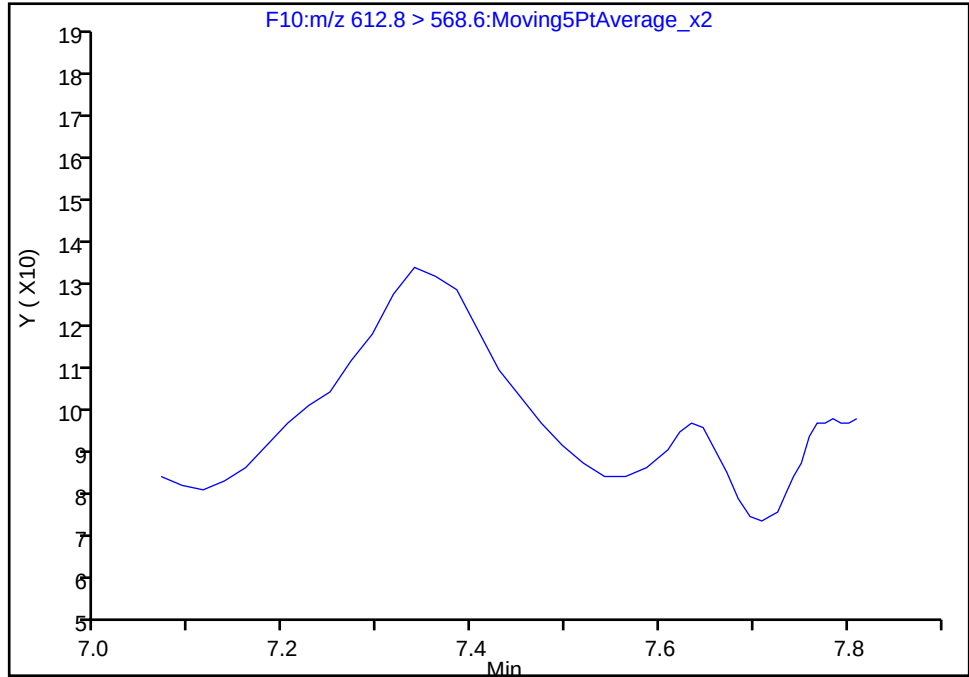
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**36 Perfluorododecanoic acid, CAS: 307-55-1**

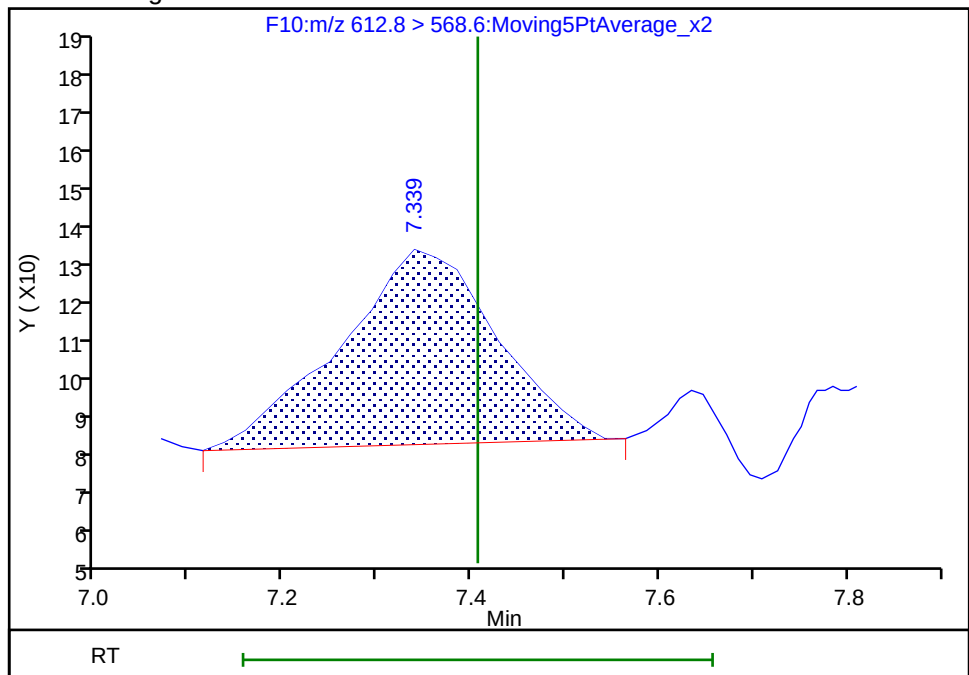
Signal: 1

Not Detected  
Expected RT: 7.41

## Processing Integration Results

RT: 7.34  
Area: 557  
Amount: 0.032093  
Amount Units: ng/ml

## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:36:58  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

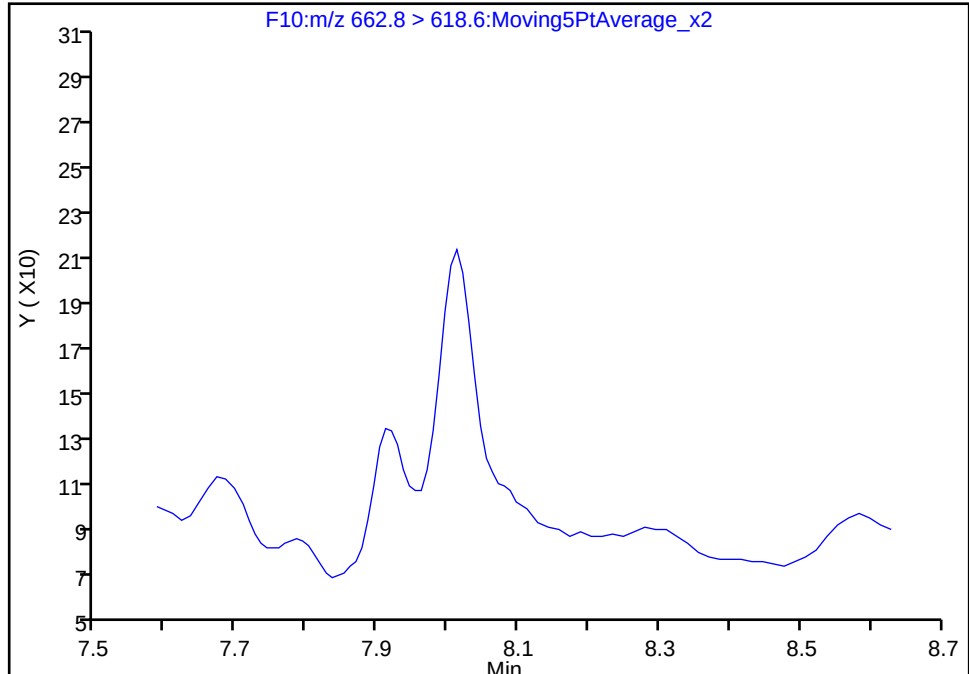
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

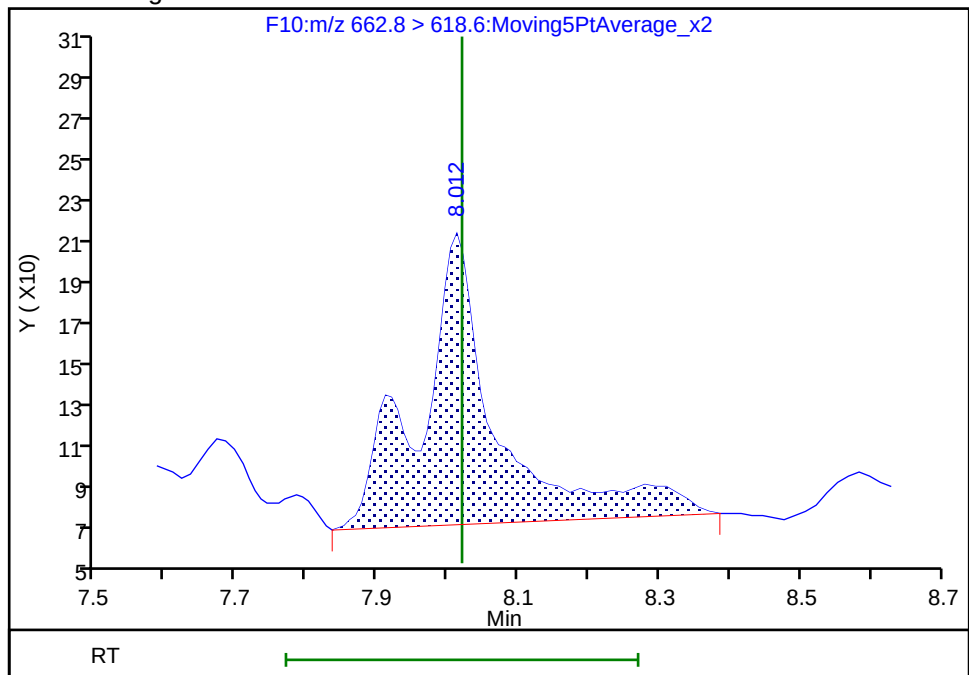
Signal: 1

Not Detected  
Expected RT: 8.02

## Processing Integration Results



## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:36:53

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

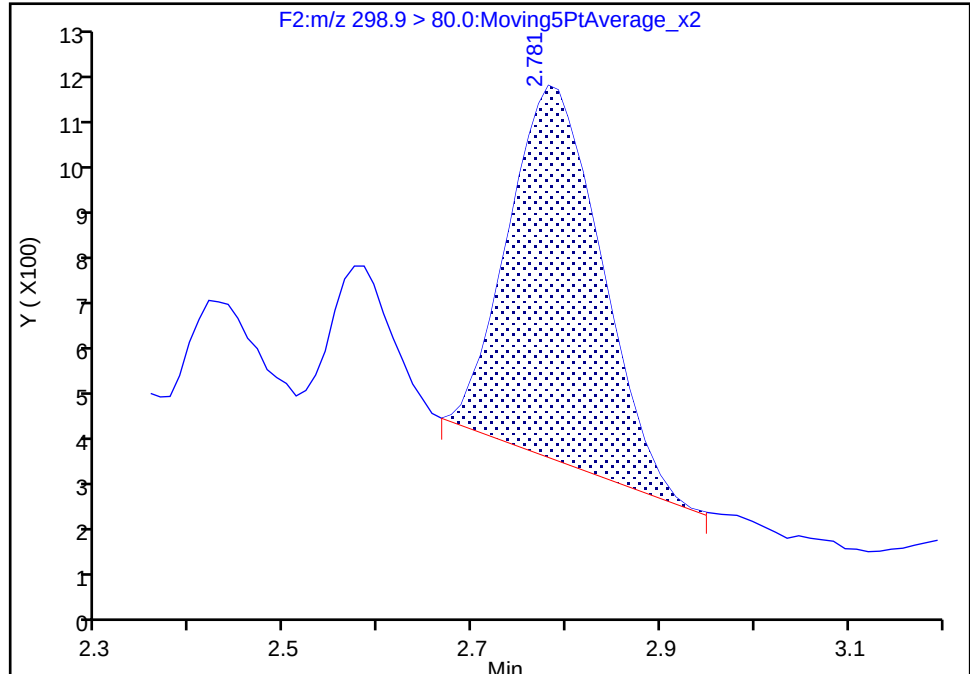
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

Signal: 1

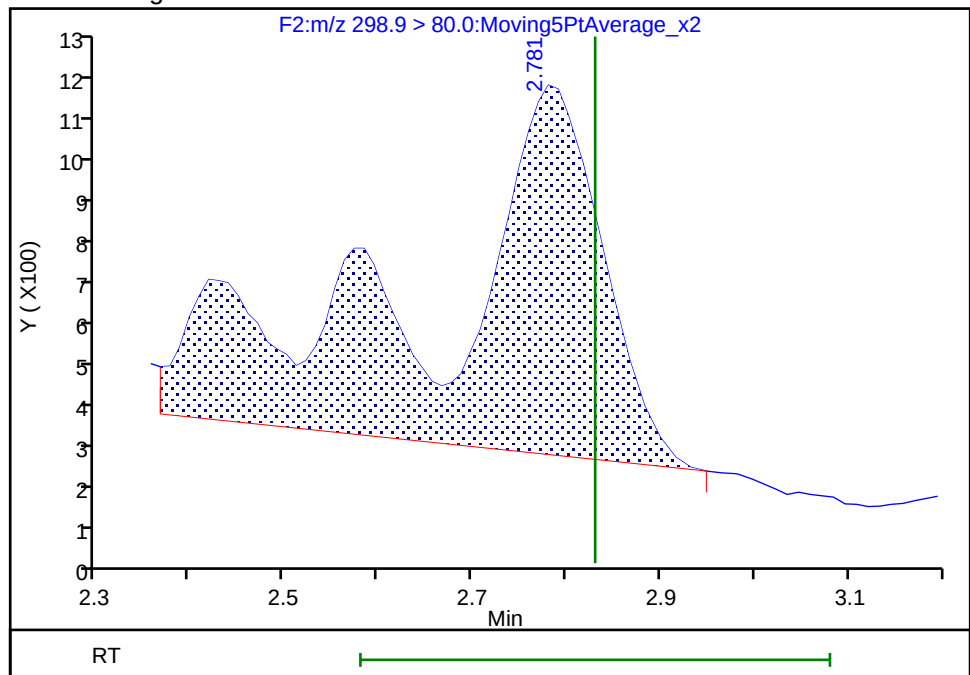
RT: 2.78  
Area: 5193  
Amount: 1.546735  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.78  
Area: 10452  
Amount: 3.113128  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:35:46  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

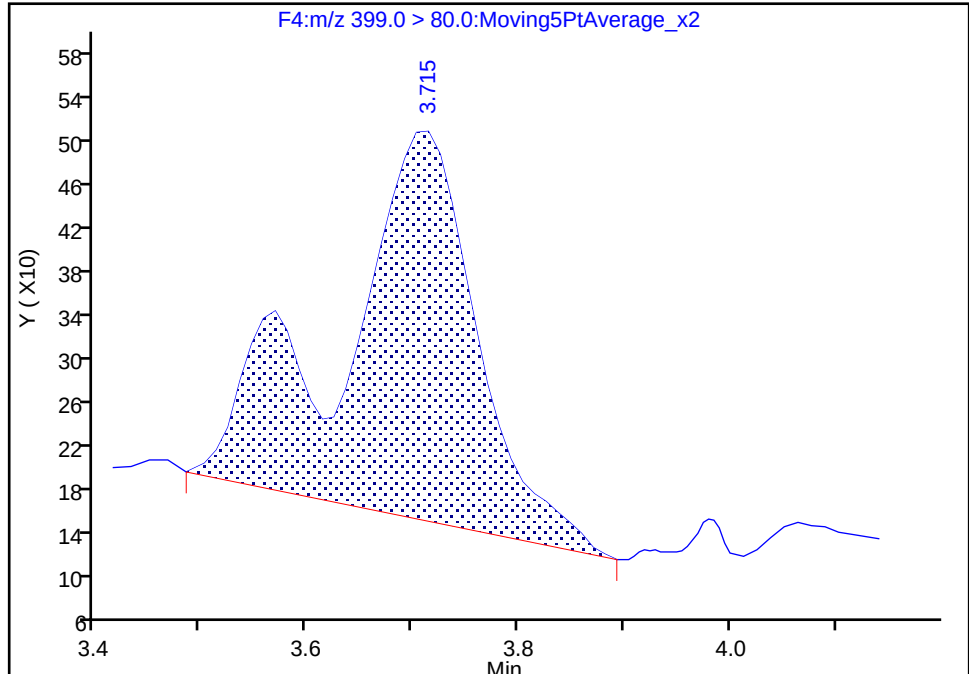
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F4:MRM       |                |    |

**12 Perfluorohexanesulfonic acid, CAS: 355-46-4**

Signal: 1

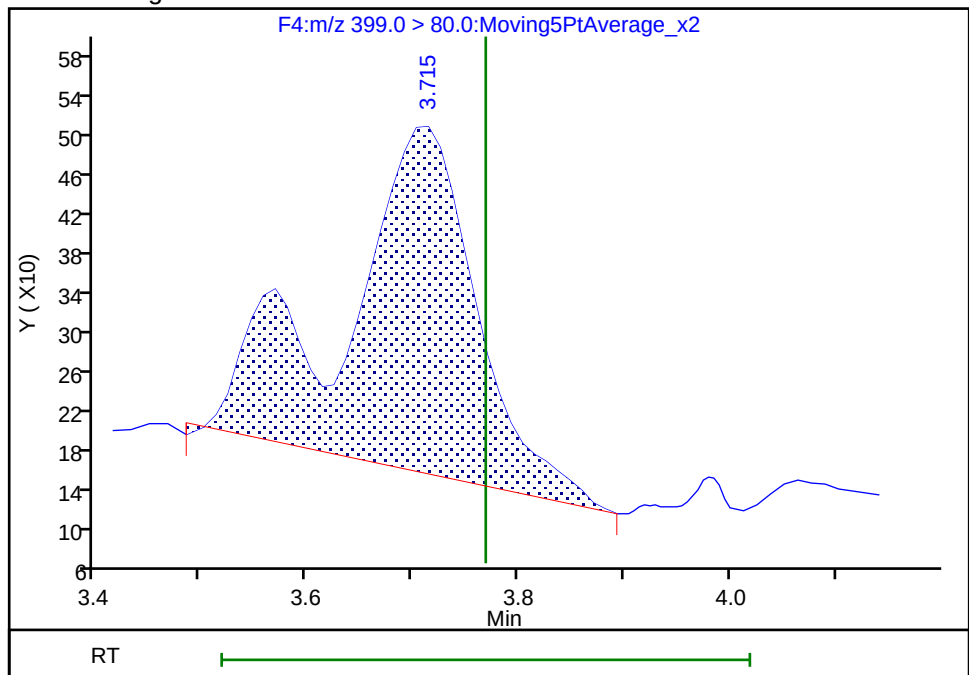
RT: 3.71  
Area: 3168  
Amount: 0.678976  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.71  
Area: 3037  
Amount: 0.650900  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:36:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

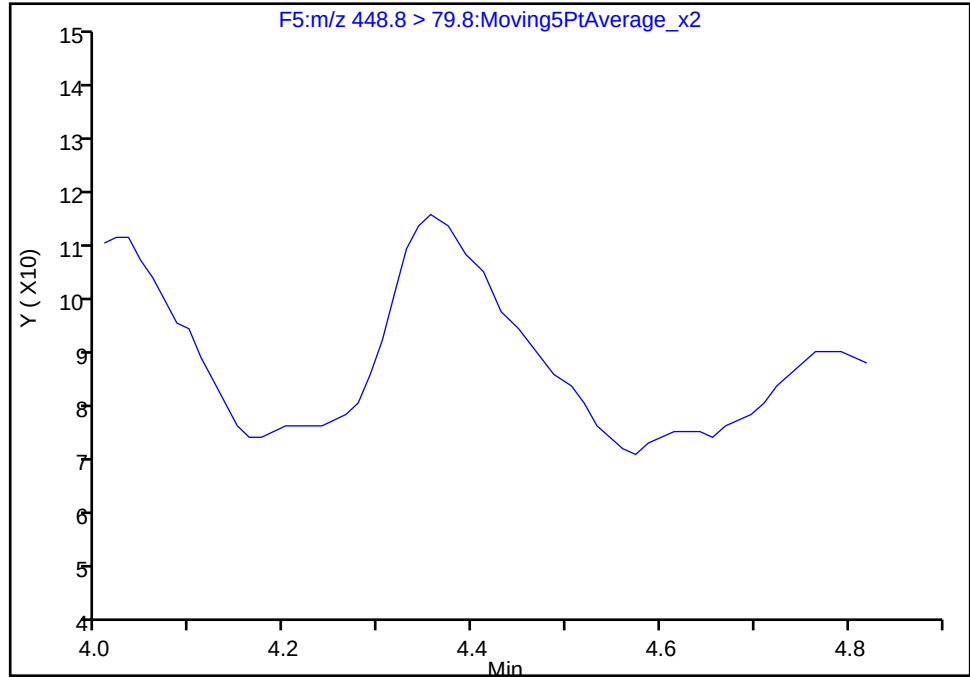
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F5:MRM       |                |    |

**18 Perfluoroheptanesulfonic acid, CAS: 375-92-8**

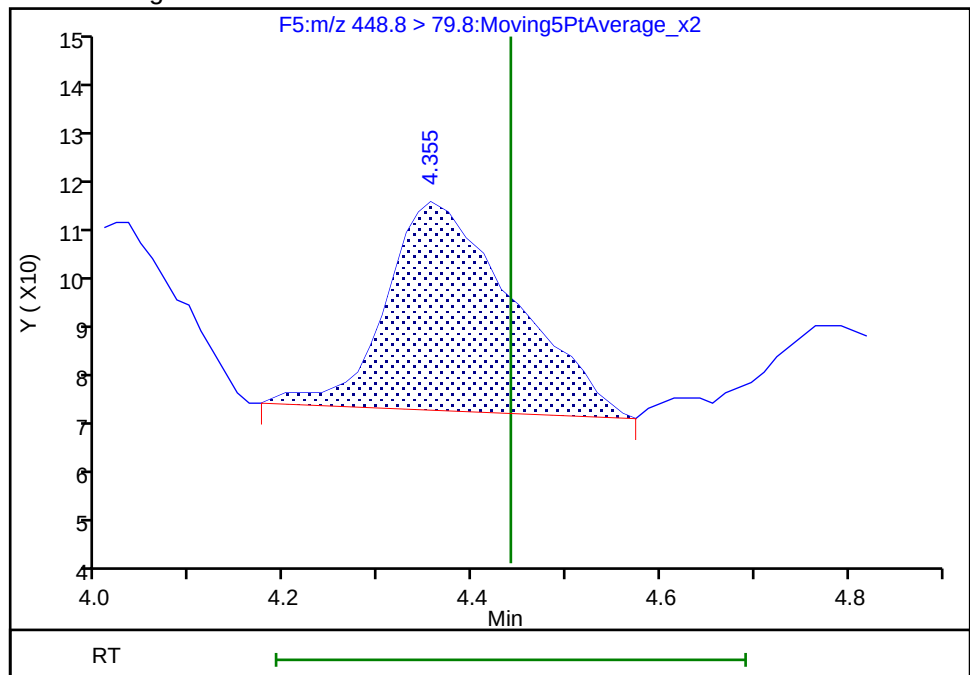
Signal: 1

Not Detected  
Expected RT: 4.44

## Processing Integration Results



## Manual Integration Results

RT: 4.36  
Area: 382  
Amount: 0.197260  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:37:26

Audit Action: Manually Integrated

Audit Reason: Missed Peak



## TestAmerica Burlington

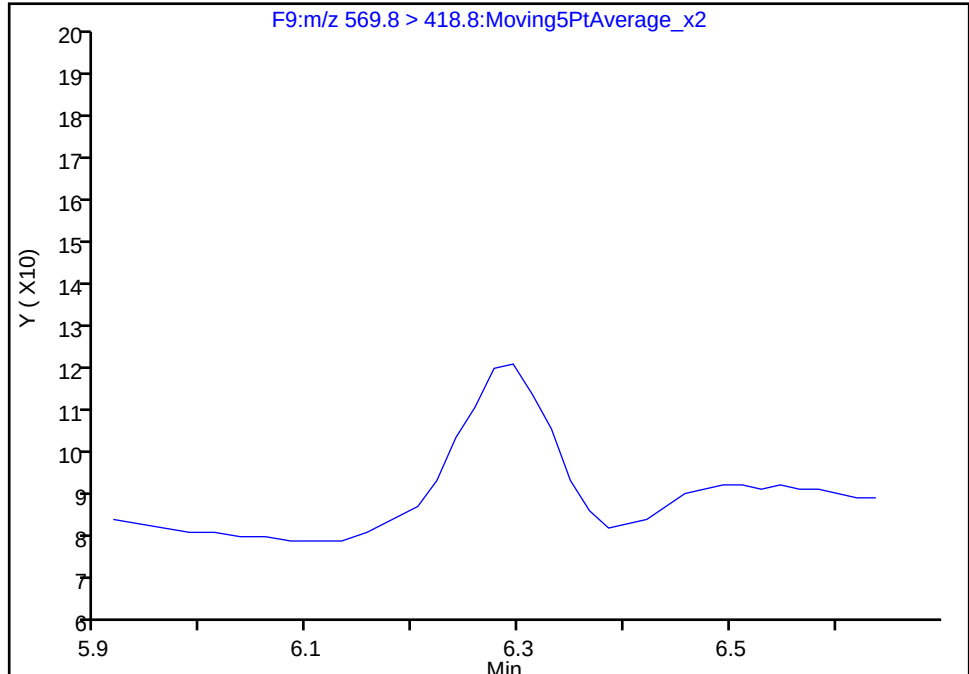
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F9:MRM       |                |    |

**28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9**

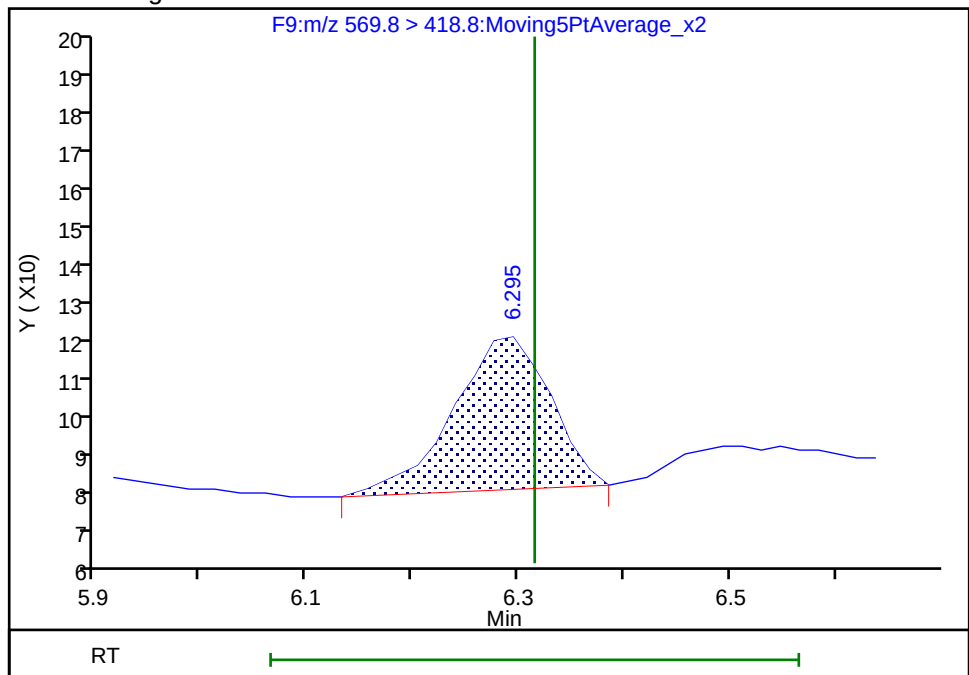
Signal: 1

Not Detected  
Expected RT: 6.32

## Processing Integration Results



## Manual Integration Results

RT: 6.29  
Area: 249  
Amount: 0.062536  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:37:13

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

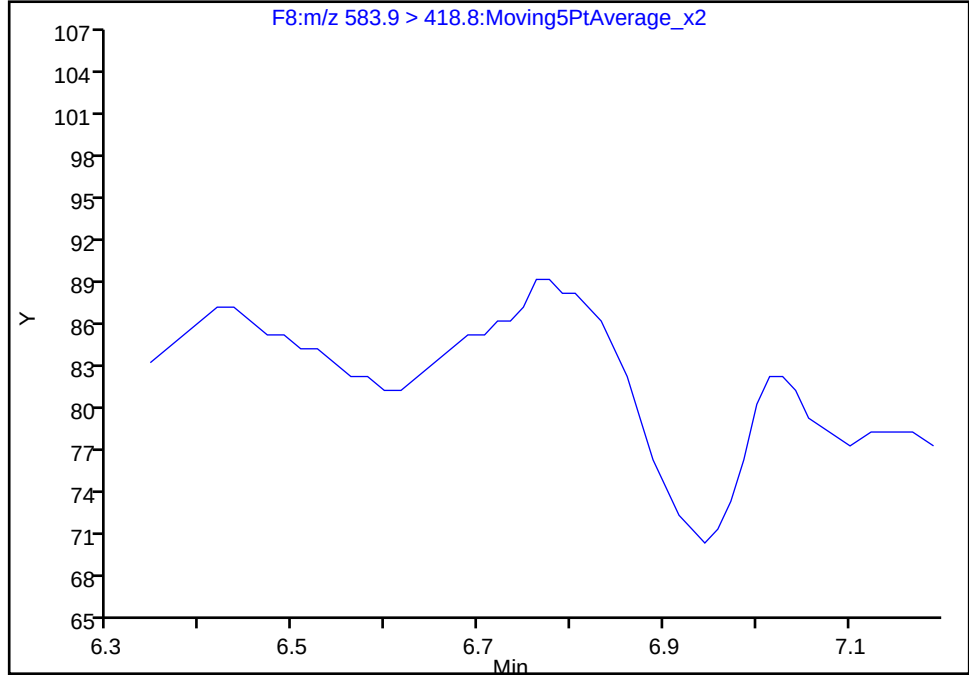
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F8:MRM       |                |    |

**30 N-ethylperfluorooctanesulfonamidoacetic acid, CAS: 2991-50-6**

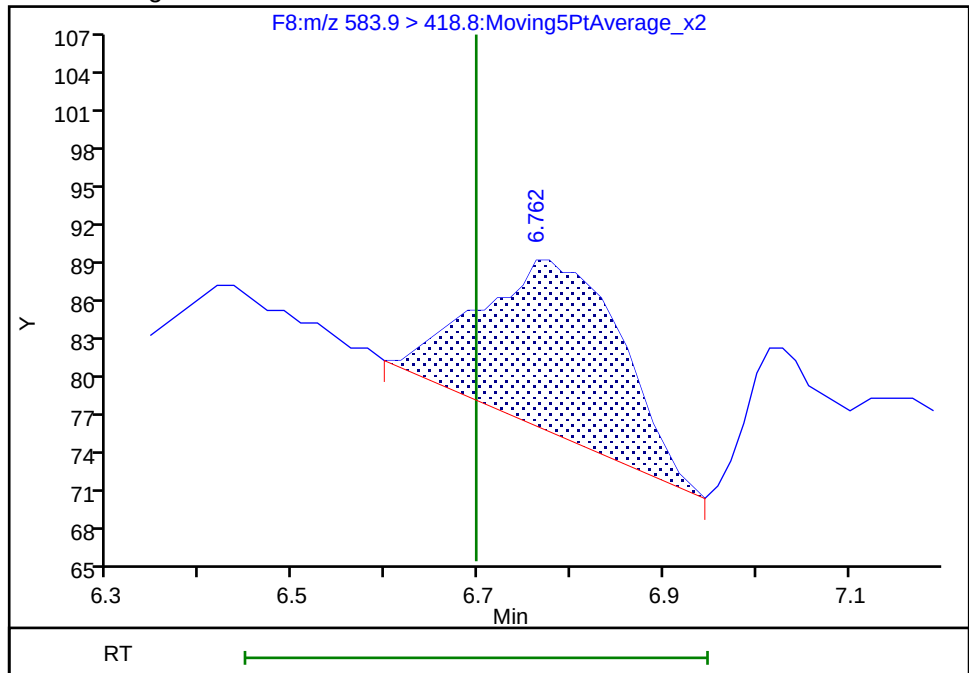
Signal: 1

Not Detected  
Expected RT: 6.70

## Processing Integration Results

RT: 6.76  
Area: 147  
Amount: 0.041473  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:37:10

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

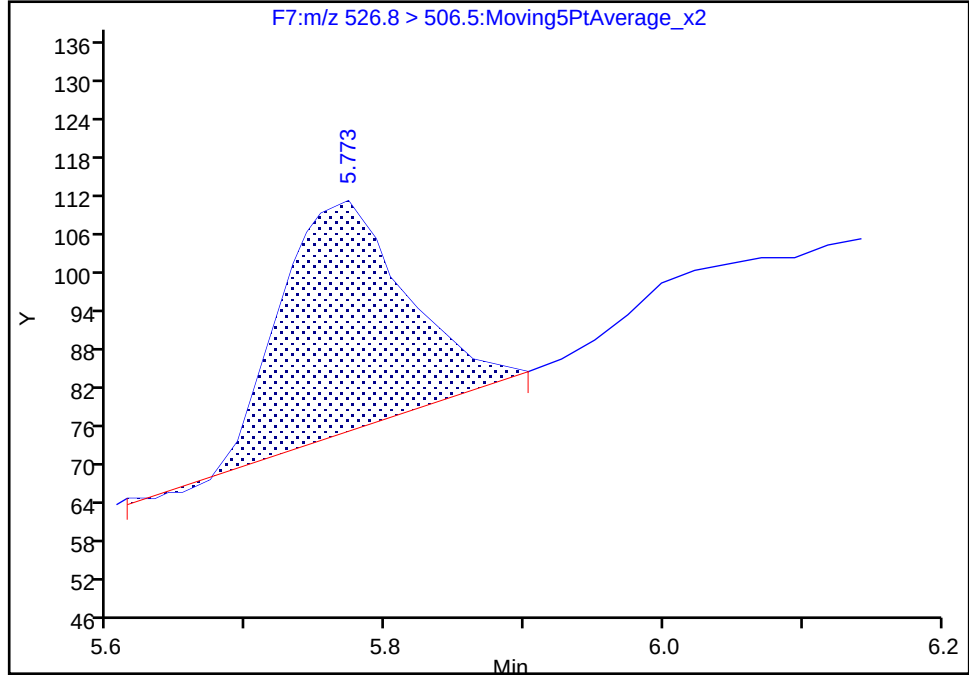
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F7:MRM       |                |    |

**23 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4**

Signal: 1

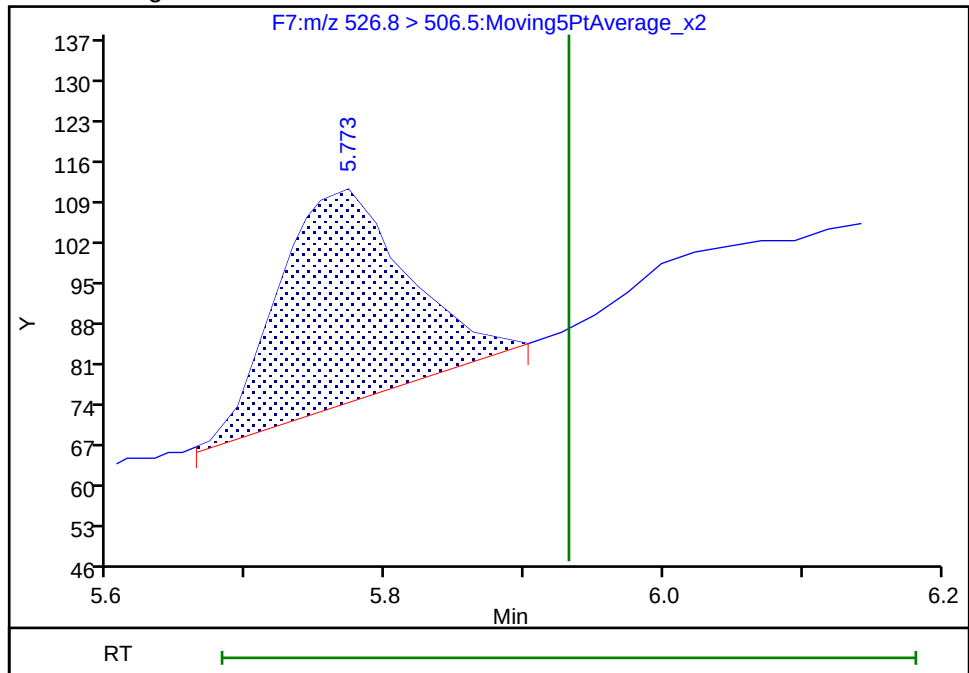
RT: 5.77  
Area: 232  
Amount: 0.039499  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.77  
Area: 244  
Amount: 0.041542  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:36:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

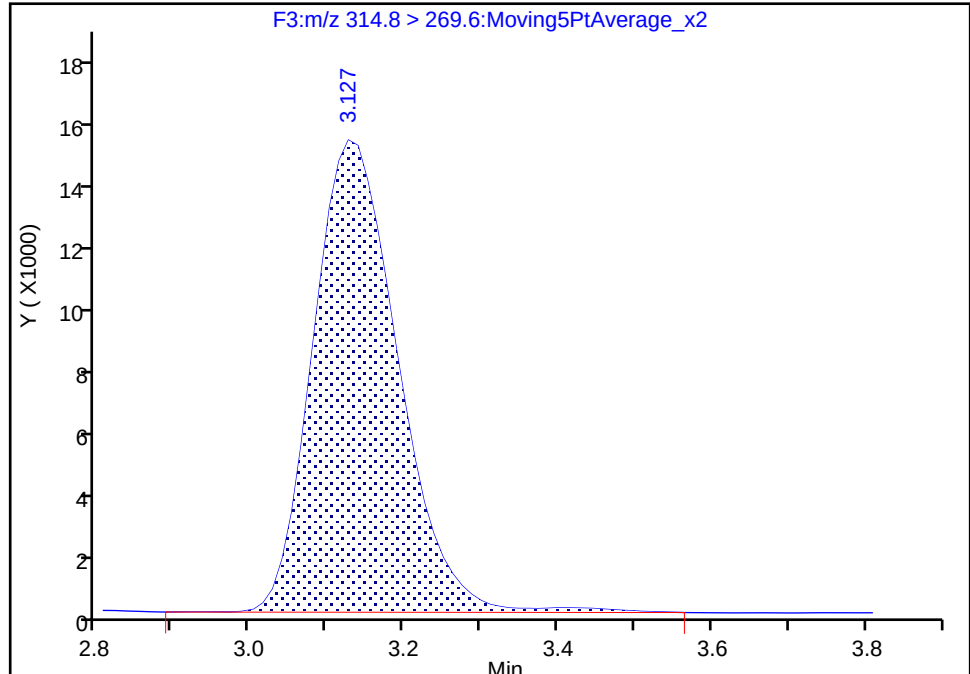
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F3:MRM       |                |    |

**D 7 13C2 PFHxA, CAS: STL00993**

Signal: 1

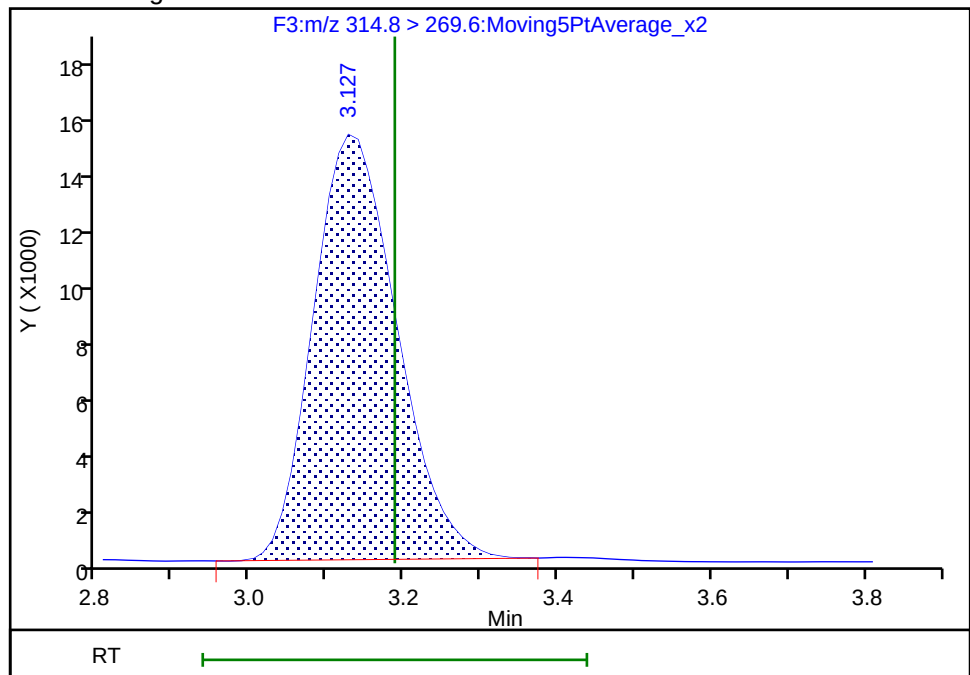
RT: 3.13  
Area: 112663  
Amount: 22.948903  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.13  
Area: 110154  
Amount: 22.437832  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:35:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

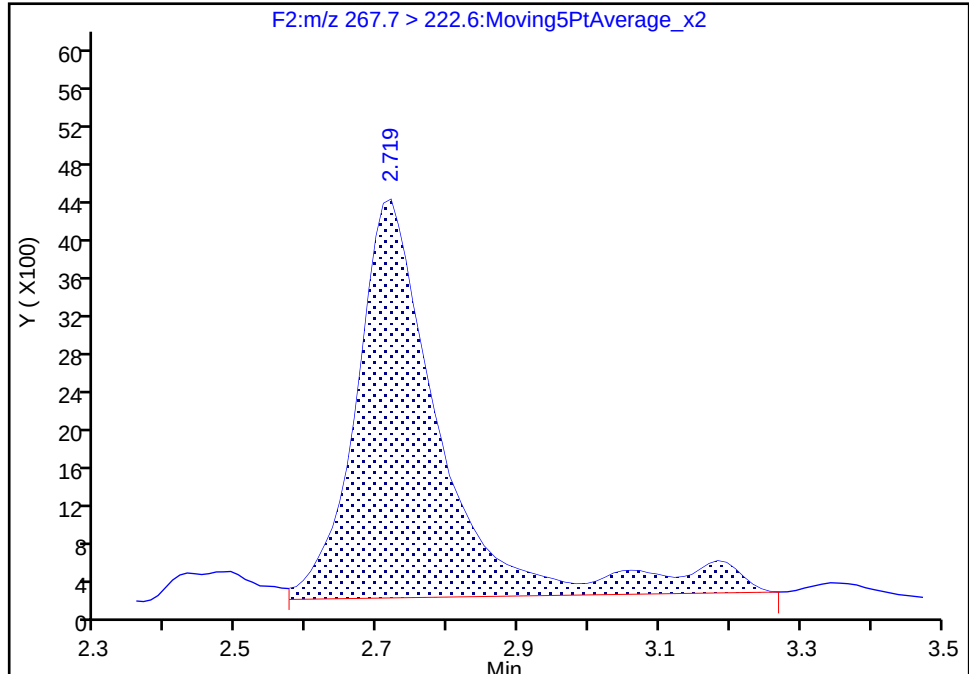
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A22.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:42:46                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-6-A                                                    | Lab Sample ID: | 200-165769-6 |                |    |
| Client ID:      | FSMW-8A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 22 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

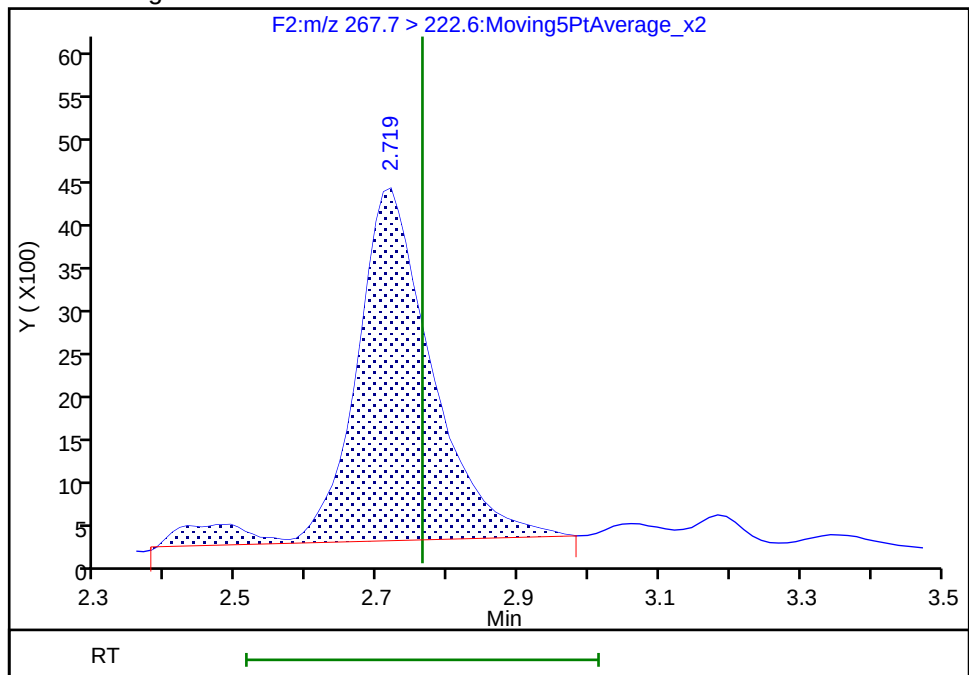
RT: 2.72  
Area: 35287  
Amount: 21.894362  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.72  
Area: 31499  
Amount: 19.544039  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:35:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                           |                                            |
|-------------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u>   | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                            |                                            |
| Client Sample ID: <u>FSMW-1A 09272018</u> | Lab Sample ID: <u>460-165769-7</u>         |
| Matrix: <u>Water</u>                      | Lab File ID: <u>PF101218A23.d</u>          |
| Analysis Method: <u>537 (modified)</u>    | Date Collected: <u>09/27/2018 14:20</u>    |
| Extraction Method: <u>3535</u>            | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>305 (mL)</u>            | Date Analyzed: <u>10/12/2018 21:58</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>        | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>          | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                         | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>         | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q   | RL   | MDL  |
|------------|----------------------------------------------------------|--------|-----|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 4.07   | B   | 1.64 | 0.34 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 10.9   |     | 1.64 | 0.61 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 5.65   |     | 1.64 | 0.20 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 3.69   |     | 1.64 | 0.26 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 6.74   |     | 1.64 | 0.26 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 0.31   | U   | 1.64 | 0.31 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 3.28   |     | 1.64 | 0.31 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 3.55   | B   | 1.64 | 0.20 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 0.29   | U   | 1.64 | 0.29 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 0.20   | U   | 1.64 | 0.20 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 0.37   | U   | 1.64 | 0.37 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 1.01   | J   | 1.64 | 0.36 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 0.82   | J B | 1.64 | 0.21 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.67   | U   | 1.64 | 0.67 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 7.18   |     | 1.64 | 0.62 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 0.43   | U   | 1.64 | 0.43 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 0.46   | U   | 1.64 | 0.46 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.37   | U   | 16.4 | 0.37 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.57   | U   | 16.4 | 0.57 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 26.6   |     | 16.4 | 0.82 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.46   | U   | 16.4 | 0.46 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                           |                                            |
|-------------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u>   | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                            |                                            |
| Client Sample ID: <u>FSMW-1A 09272018</u> | Lab Sample ID: <u>460-165769-7</u>         |
| Matrix: <u>Water</u>                      | Lab File ID: <u>PF101218A23.d</u>          |
| Analysis Method: <u>537 (modified)</u>    | Date Collected: <u>09/27/2018 14:20</u>    |
| Extraction Method: <u>3535</u>            | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>305 (mL)</u>            | Date Analyzed: <u>10/12/2018 21:58</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>        | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>          | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                         | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>         | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 89   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 75   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 88   |   | 25-150 |
| STL00991 | 13C4 PFOS        | 85   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 95   |   | 25-150 |
| STL00992 | 13C4 PFBA        | 29   |   | 25-150 |
| STL00993 | 13C2 PFHxA       | 53   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 96   |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 92   |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 89   |   | 25-150 |
| STL01056 | 13C8 FOSA        | 56   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 41   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 92   |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 74   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 80   |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 201  | * | 25-150 |
| STL02280 | M2-8:2 FTS       | 166  | * | 25-150 |
| STL02337 | 13C3 PFBS        | 66   |   | 25-150 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d  
 Lims ID: 460-165769-D-7-A  
 Client ID: FSMW-1A 09272018  
 Sample Type: Client  
 Inject. Date: 12-Oct-2018 21:58:36 ALS Bottle#: 0 Worklist Smp#: 23  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-023 7  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:43:45 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
 Column 1 : Det: F1:MRM  
 Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:41:26

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |           |           |           |          |                 |               |      |      | M     |
| 216.9 > 171.5                         | 2.314 | 2.326     | -0.012    | 1.000     | 103170   | 14.3            |               | 28.7 | 57.1 | M     |
| 2 Perfluorobutanoic acid              |       |           |           |           |          |                 |               |      |      | M     |
| 212.9 > 168.9                         | 2.302 | 2.344     | -0.042    | 0.995     | 4907     | 2.48            |               |      | 6.9  | M     |
| D 3 13C5 PFPeA                        |       |           |           |           |          |                 |               |      |      | M     |
| 267.7 > 222.6                         | 2.739 | 2.763     | -0.024    | 1.000     | 35435    | 20.5            |               | 41.1 | 28.7 | M     |
| 4 Perfluoropentanoic acid             |       |           |           |           |          |                 |               |      |      | M     |
| 262.9 > 218.8                         | 2.729 | 2.763     | -0.034    | 0.996     | 31788    | 6.62            |               |      | 25.1 | M     |
| D 6 13C3 PFBS                         |       |           |           |           |          |                 |               |      |      |       |
| 302.0 > 79.8                          | 2.791 | 2.829     | -0.038    | 1.000     | 77309    | 30.6            |               | 65.9 | 455  |       |
| 5 Perfluorobutanesulfonic acid        |       |           |           |           |          |                 |               |      |      |       |
| 298.9 > 80.0                          | 2.781 | 2.830     | -0.049    | 0.996     | 2086     | 0.6171          |               |      | 2.7  |       |
| D 7 13C2 PFHxA                        |       |           |           |           |          |                 |               |      |      | M     |
| 314.8 > 269.6                         | 3.152 | 3.188     | -0.036    | 1.000     | 140303   | 26.7            |               | 53.4 | 987  | M     |
| 8 Perfluorohexanoic acid              |       |           |           |           |          |                 |               |      |      | M     |
| 312.8 > 268.6                         | 3.140 | 3.189     | -0.049    | 0.996     | 10287    | 3.45            |               |      | 22.7 | M     |
| D 9 13C4 PFHpA                        |       |           |           |           |          |                 |               |      |      |       |
| 366.9 > 321.8                         | 3.692 | 3.725     | -0.033    | 1.000     | 577346   | 37.5            |               | 75.1 | 1934 |       |
| 10 Perfluoroheptanoic acid            |       |           |           |           |          |                 |               |      |      | M     |
| 362.9 > 318.8                         | 3.692 | 3.728     | -0.036    | 1.000     | 26117    | 2.25            |               |      | 39.9 | M     |
| 12 Perfluorohexanesulfonic acid       |       |           |           |           |          |                 |               |      |      | M     |
| 399.0 > 80.0                          | 3.703 | 3.769     | -0.066    | 0.994     | 2529     | 0.5007          |               |      | 7.7  | M     |
| D 11 18O2 PFHxS                       |       |           |           |           |          |                 |               |      |      |       |
| 402.9 > 83.8                          | 3.726 | 3.770     | -0.044    | 1.000     | 128037   | 42.1            |               | 89.0 | 463  |       |
| D 13 M2-6:2 FTS                       |       |           |           |           |          |                 |               |      |      |       |
| 428.6 > 408.6                         | 4.330 | 4.353     | -0.023    | 1.000     | 53090    | 95.6            |               | 201  | 302  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |           |           |           |          |                 |               |      |      |       |
| 426.6 > 406.6                         | 4.317 | 4.355     | -0.038    | 0.997     | 18718    | 16.2            |               |      | 295  |       |



| Signal                           | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|----------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| * 15 13C2 PFOA                   |       |           |           |           |          |                 |               |      |      |       |
| 414.9 > 369.8                    | 4.374 | 4.401     | -0.027    |           | 666846   | 50.0            |               |      | 3827 |       |
| D 17 13C4 PFOA                   |       |           |           |           |          |                 |               |      |      |       |
| 416.9 > 371.8                    | 4.374 | 4.407     | -0.033    | 1.000     | 543516   | 44.0            |               | 88.1 | 1362 |       |
| 16 Perfluorooctanoic acid        |       |           |           |           |          |                 |               |      |      | M     |
| 412.9 > 368.8                    | 4.374 | 4.409     | -0.035    | 1.000     | 46815    | 4.11            |               |      | 144  | M     |
| 18 Perfluoroheptanesulfonic acid |       |           |           |           |          |                 |               |      |      | M     |
| 448.8 > 79.8                     | 4.342 | 4.441     | -0.099    | 0.840     | 209      | 0.1100          |               |      | 2.6  | M     |
| D 20 13C5 PFNA                   |       |           |           |           |          |                 |               |      |      |       |
| 467.8 > 422.8                    | 5.154 | 5.171     | -0.017    | 1.000     | 752002   | 47.6            |               | 95.2 | 2205 |       |
| 19 Perfluorononanoic acid        |       |           |           |           |          |                 |               |      |      |       |
| 462.8 > 418.8                    | 5.168 | 5.175     | -0.007    | 1.003     | 10705    | 0.1552          |               |      | 44.8 |       |
| D 22 13C4 PFOS                   |       |           |           |           |          |                 |               |      |      |       |
| 502.8 > 79.8                     | 5.168 | 5.195     | -0.027    | 1.000     | 103304   | 40.5            |               | 84.7 | 365  |       |
| 21 Perfluorooctanesulfonic acid  |       |           |           |           |          |                 |               |      |      | M     |
| 498.8 > 79.8                     | 5.168 | 5.197     | -0.029    | 1.000     | 9778     | 4.38            |               |      | 94.8 | M     |
| D 24 M2-8:2 FTS                  |       |           |           |           |          |                 |               |      |      |       |
| 528.8 > 508.8                    | 5.902 | 5.929     | -0.027    | 1.000     | 331299   | 79.4            |               | 166  | 1628 |       |
| D 26 13C2 PFDA                   |       |           |           |           |          |                 |               |      |      |       |
| 514.9 > 469.5                    | 5.926 | 5.950     | -0.024    | 1.000     | 827551   | 47.8            |               | 95.6 | 1632 |       |
| 25 Perfluorodecanoic acid        |       |           |           |           |          |                 |               |      |      |       |
| 512.9 > 468.5                    | 5.926 | 5.956     | -0.030    | 1.000     | 32624    | 2.00            |               |      | 81.5 |       |
| D 27 d3-NMeFOSAA                 |       |           |           |           |          |                 |               |      |      |       |
| 572.8 > 418.8                    | 6.295 | 6.311     | -0.016    | 1.000     | 180120   | 36.9            |               | 73.9 | 975  |       |
| D 29 d5-NEtFOSAA                 |       |           |           |           |          |                 |               |      |      |       |
| 588.9 > 418.8                    | 6.652 | 6.674     | -0.022    | 1.000     | 168453   | 39.8            |               | 79.6 | 938  |       |
| D 32 13C2 PFUnA                  |       |           |           |           |          |                 |               |      |      |       |
| 564.8 > 519.8                    | 6.706 | 6.720     | -0.014    | 1.000     | 911690   | 46.0            |               | 91.9 | 4390 |       |
| 33 Perfluoroundecanoic acid      |       |           |           |           |          |                 |               |      |      | M     |
| 562.8 > 518.6                    | 6.706 | 6.720     | -0.014    | 1.000     | 34990    | 2.17            |               |      | 133  | M     |
| D 35 13C8 FOSA                   |       |           |           |           |          |                 |               |      |      |       |
| 505.8 > 77.8                     | 6.958 | 6.973     | -0.015    | 1.000     | 127473   | 28.2            |               | 56.4 | 390  |       |
| D 37 13C2 PFDaA                  |       |           |           |           |          |                 |               |      |      |       |
| 614.8 > 569.6                    | 7.384 | 7.402     | -0.018    | 1.000     | 968662   | 44.6            |               | 89.1 | 3837 |       |
| 36 Perfluorododecanoic acid      |       |           |           |           |          |                 |               |      |      | M     |
| 612.8 > 568.6                    | 7.406 | 7.407     | -0.001    | 1.003     | 788      | 0.0470          |               |      | 8.1  | M     |
| 38 Perfluorotridecanoic acid     |       |           |           |           |          |                 |               |      |      | M     |
| 662.8 > 618.6                    | 8.012 | 8.020     | -0.008    | 0.936     | 298      | 0.0165          |               |      | 4.8  | M     |
| D 40 13C2 PFTeDA                 |       |           |           |           |          |                 |               |      |      |       |
| 714.8 > 669.6                    | 8.560 | 8.563     | -0.003    | 1.000     | 971001   | 46.0            |               | 91.9 | 1082 |       |
| 39 Perfluorotetradecanoic acid   |       |           |           |           |          |                 |               |      |      | M     |
| 712.8 > 668.6                    | 8.468 | 8.567     | -0.099    | 0.989     | 211      | 0.0111          |               |      | 1.7  | M     |

## QC Flag Legend

### Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d

Injection Date: 12-Oct-2018 21:58:36

Instrument ID: LC410

Lims ID: 460-165769-D-7-A

Lab Sample ID: 200-165769-7

Client ID: FSMW-1A 09272018

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 23

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

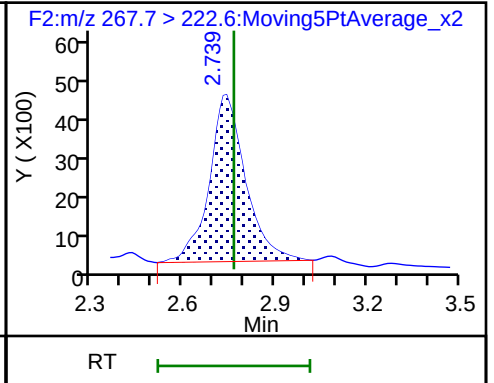
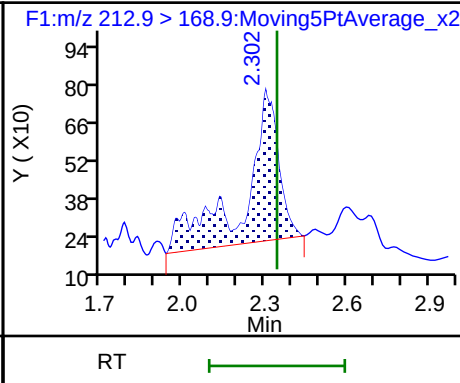
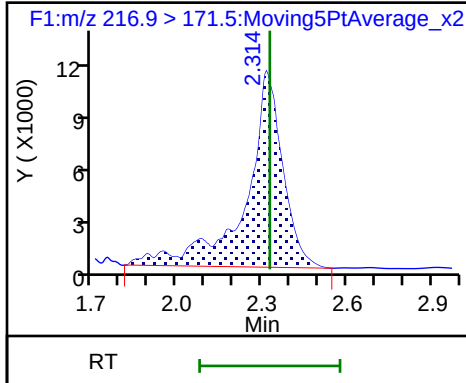
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

## D 1 13C4 PFBA (M)

## 2 Perfluorobutanoic acid (M)

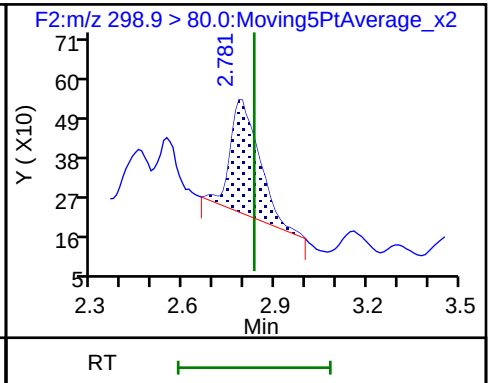
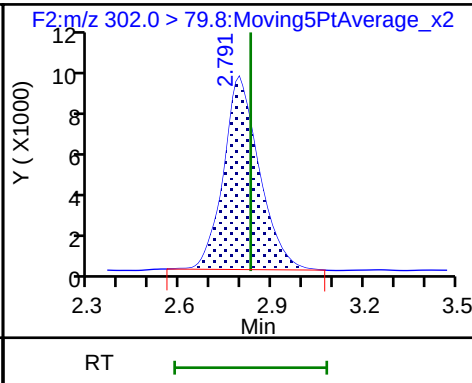
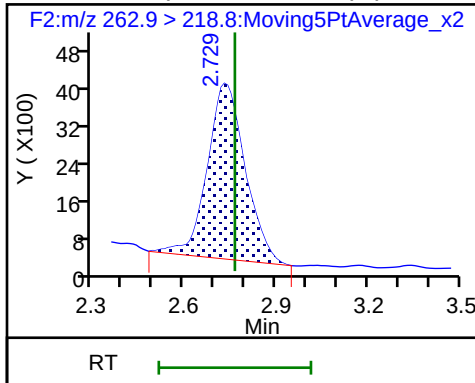
## D 3 13C5 PFPeA (M)



## 4 Perfluoropentanoic acid (M)

## D 6 13C3 PFBS

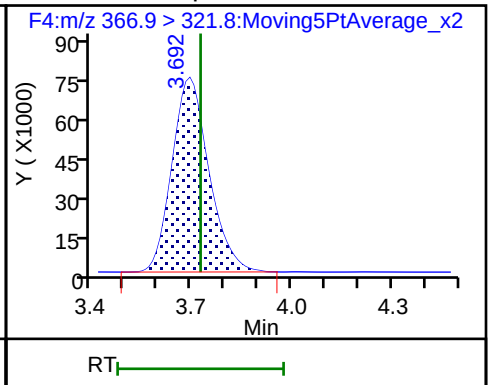
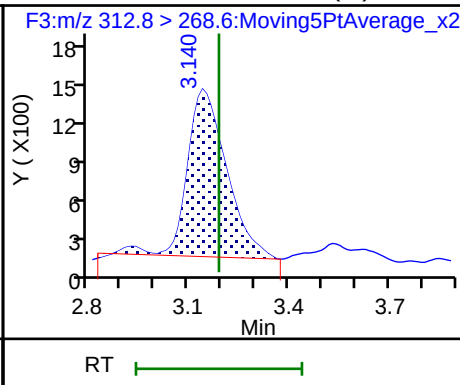
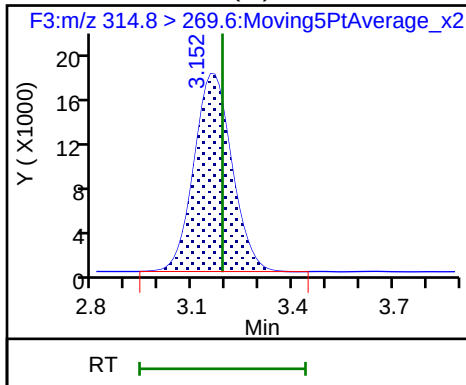
## 5 Perfluorobutanesulfonic acid



## D 7 13C2 PFHxA (M)

## 8 Perfluorohexanoic acid (M)

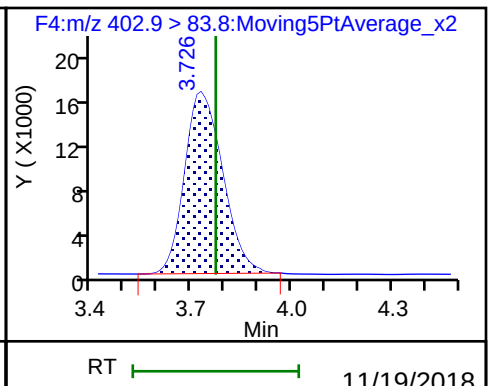
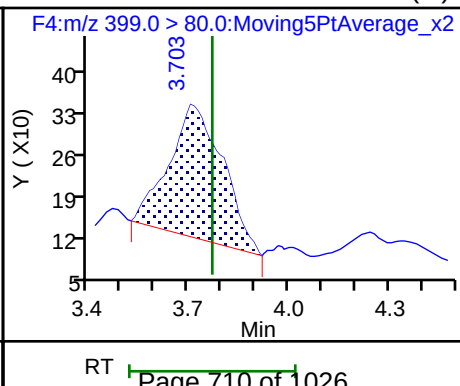
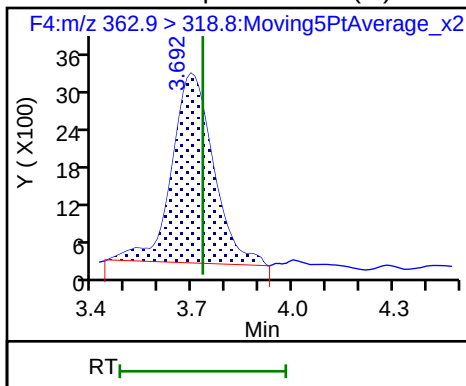
## D 9 13C4 PFHpA



## 10 Perfluoroheptanoic acid (M)

## 12 Perfluorohexanesulfonic acid (M)

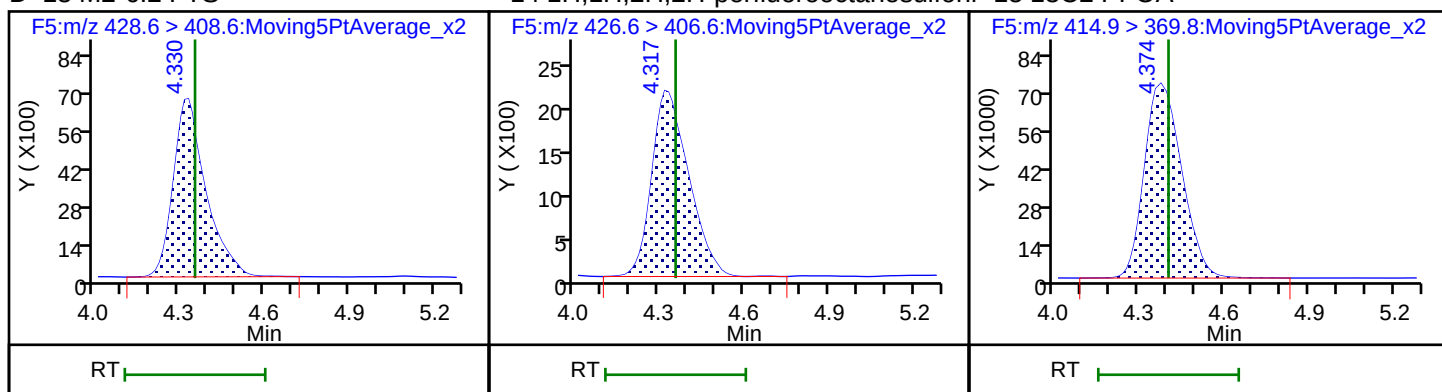
## D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

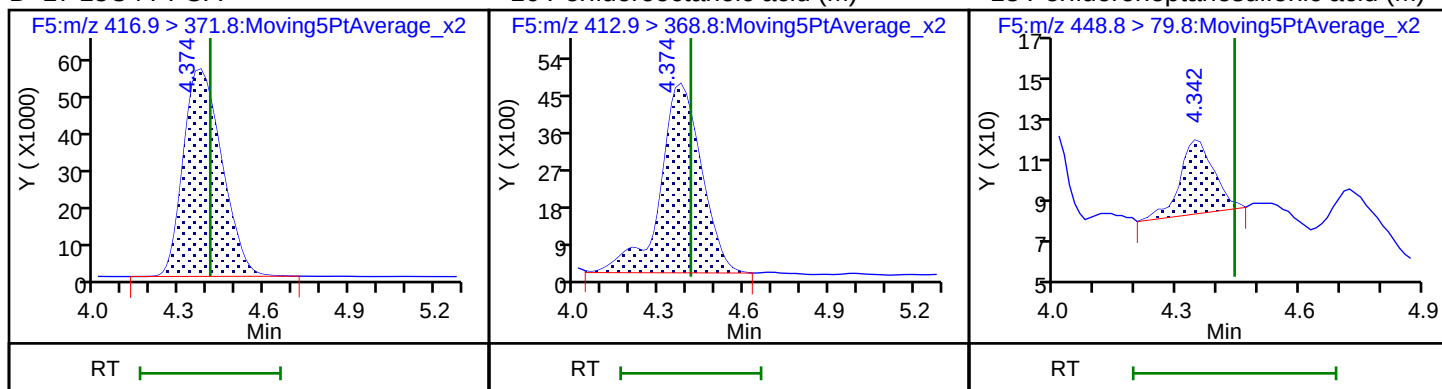
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid (M)

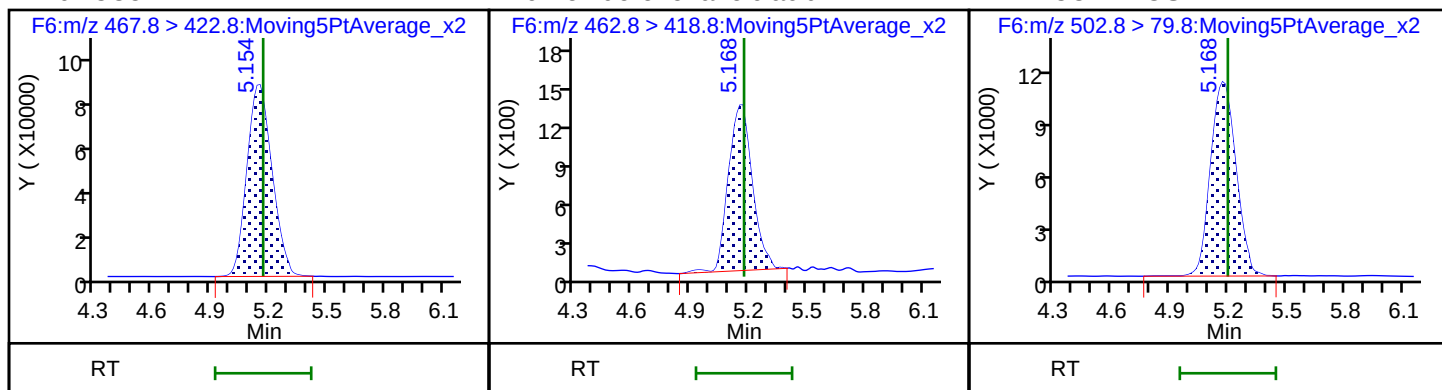
18 Perfluoroheptanesulfonic acid (M)



D 20 13C5 PFNA

19 Perfluorononanoic acid

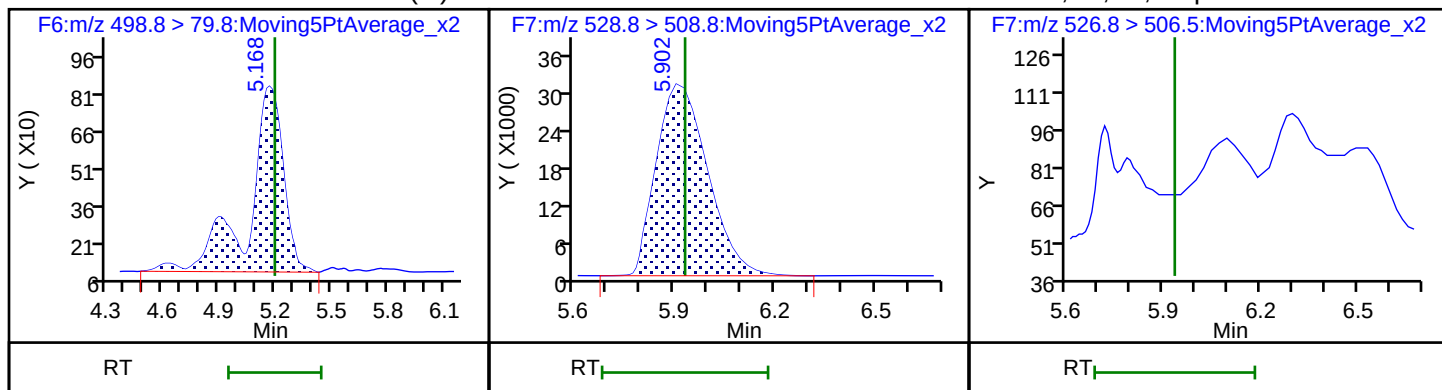
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

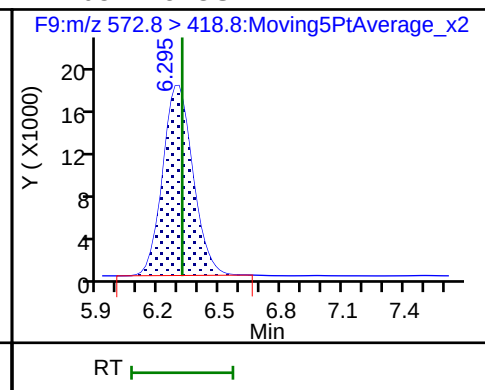
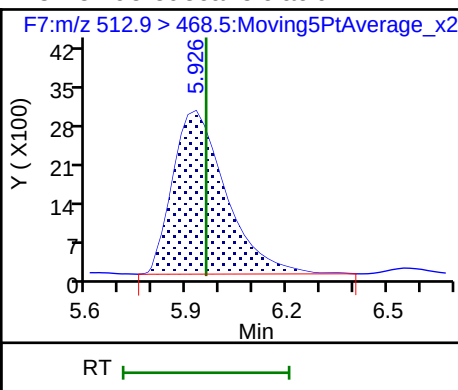
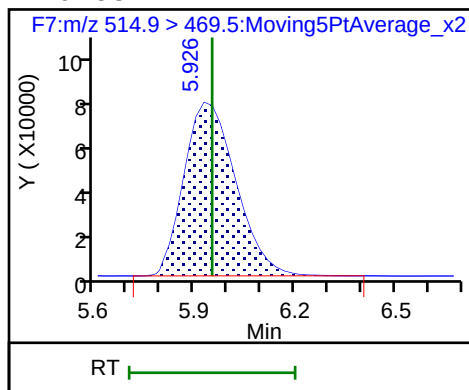
23 1H,1H,2H,2H-perfluorodecanesulfonate (ND)



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

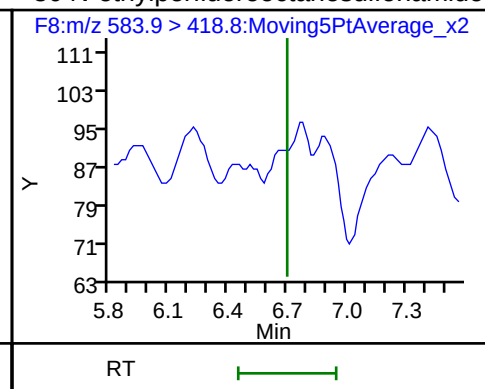
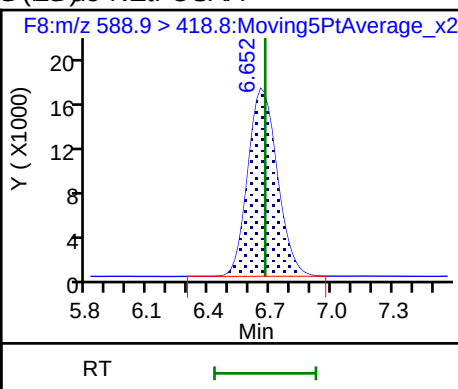
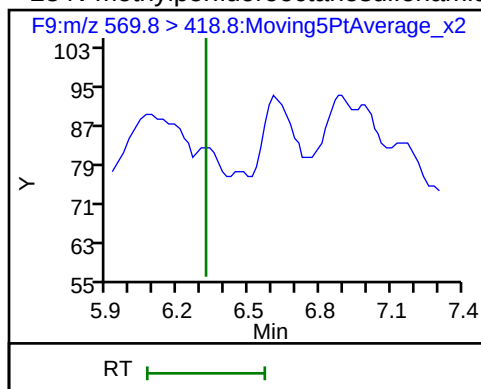
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamide (ND)

## D 29 d15-NEtFOSAA

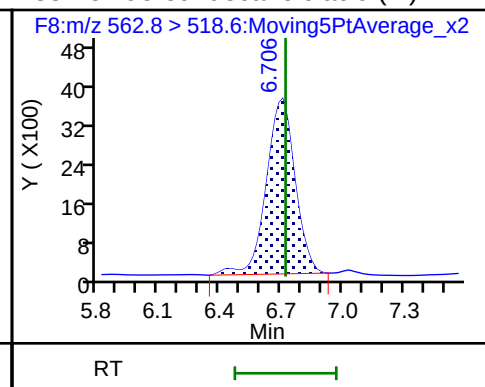
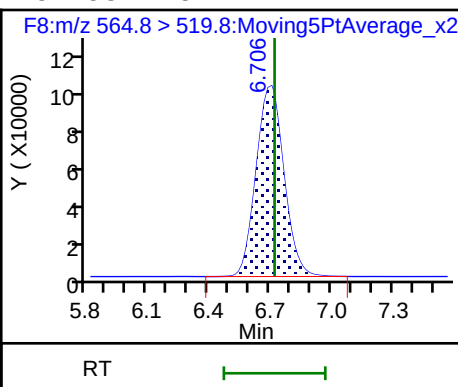
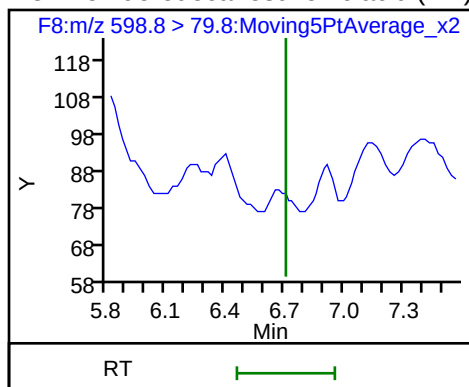
## 30 N-ethylperfluorooctanesulfonamide (ND)



## 31 Perfluorodecanesulfonic acid (ND)

## D 32 13C2 PFUnA

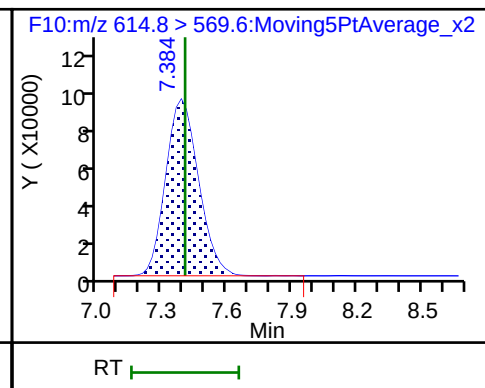
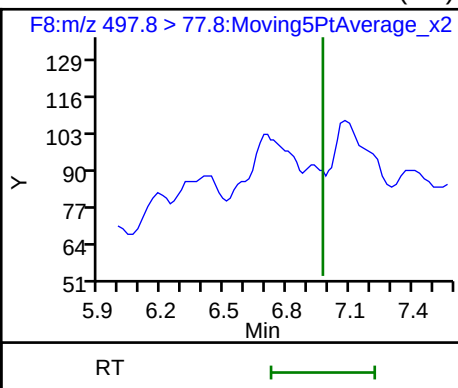
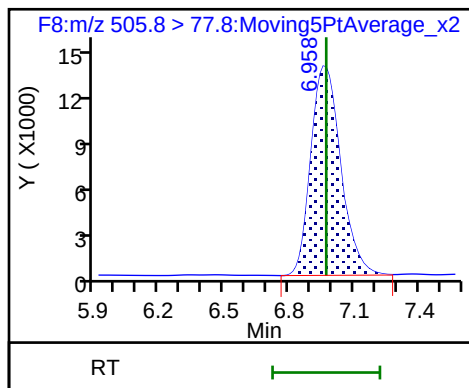
## 33 Perfluoroundecanoic acid (M)



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide (ND)

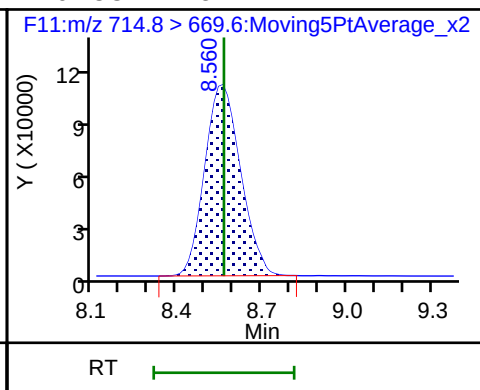
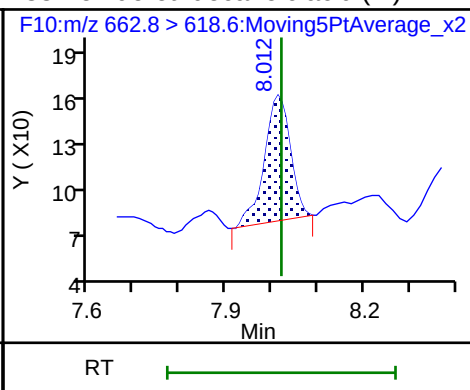
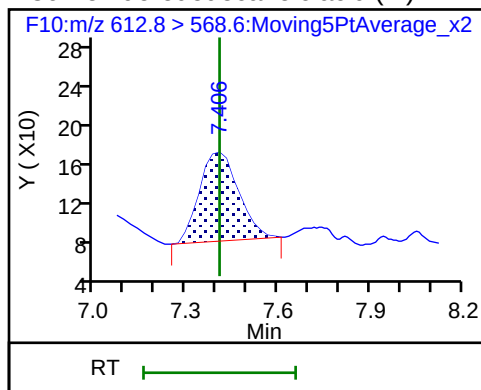
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid (M)

## 38 Perfluorotridecanoic acid (M)

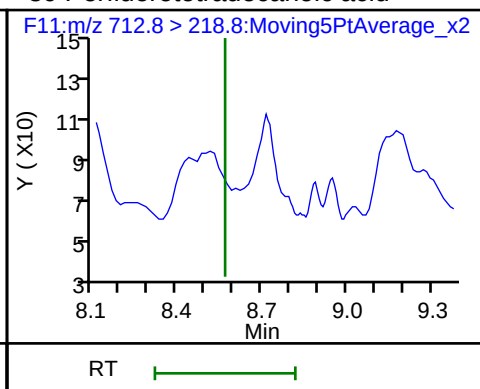
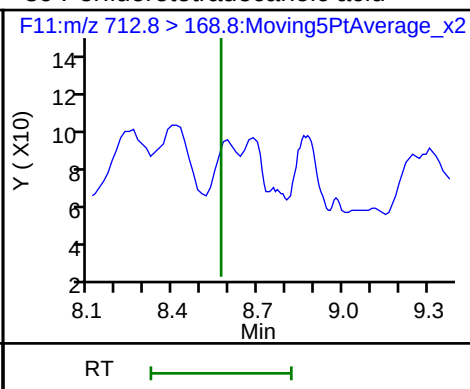
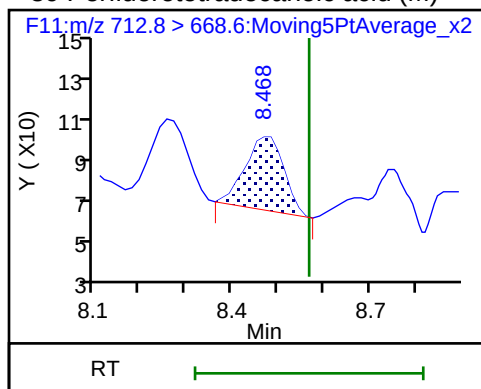
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid (M)

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

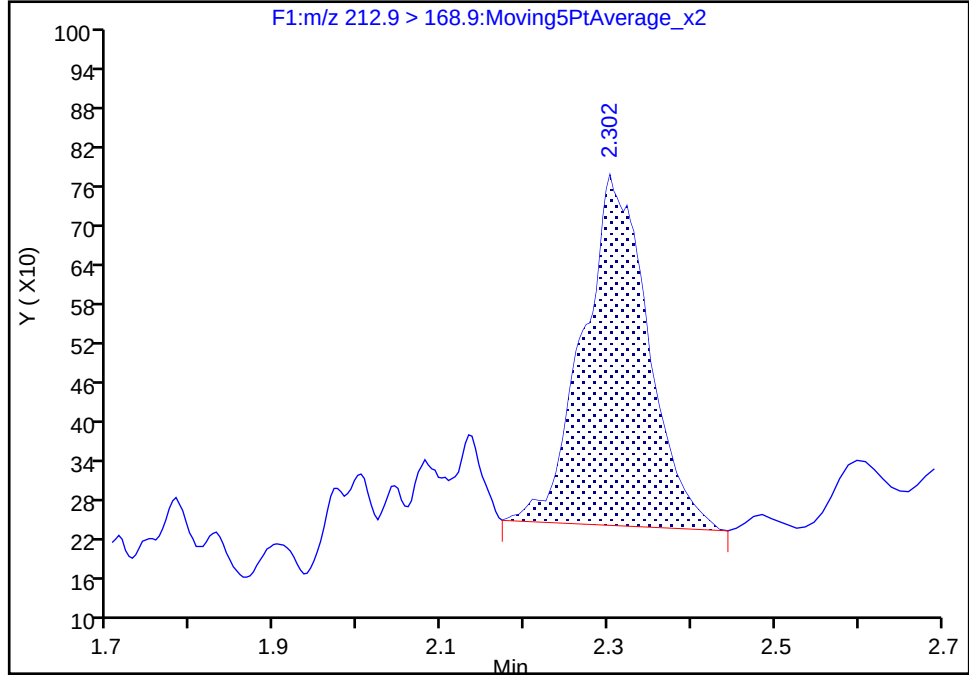
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector:      | F1:MRM       |                |    |

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

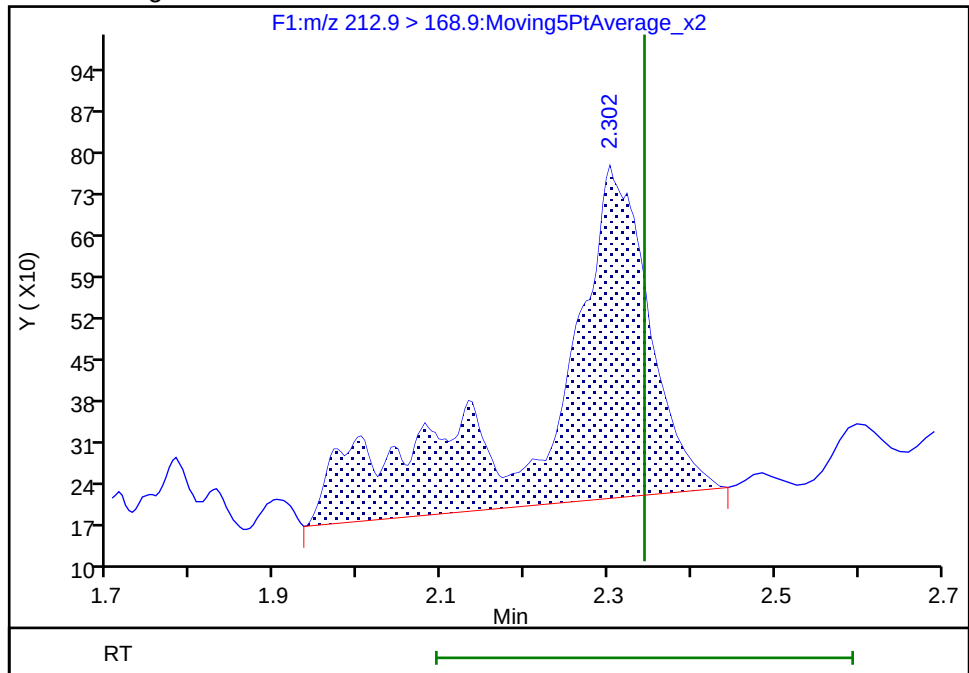
RT: 2.30  
Area: 2923  
Amount: 1.577899  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.30  
Area: 4907  
Amount: 2.482145  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:38:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d

Injection Date: 12-Oct-2018 21:58:36

Instrument ID: LC410

Lims ID: 460-165769-D-7-A

Lab Sample ID: 200-165769-7

Client ID: FSMW-1A 09272018

Operator ID: BC

ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

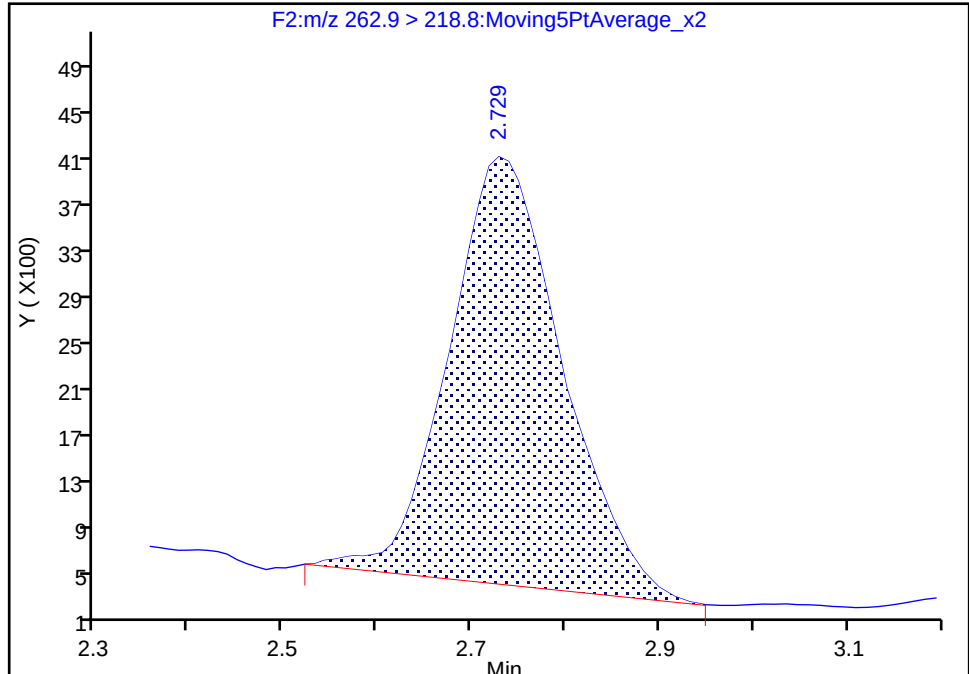
Detector F2:MRM

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

Signal: 1

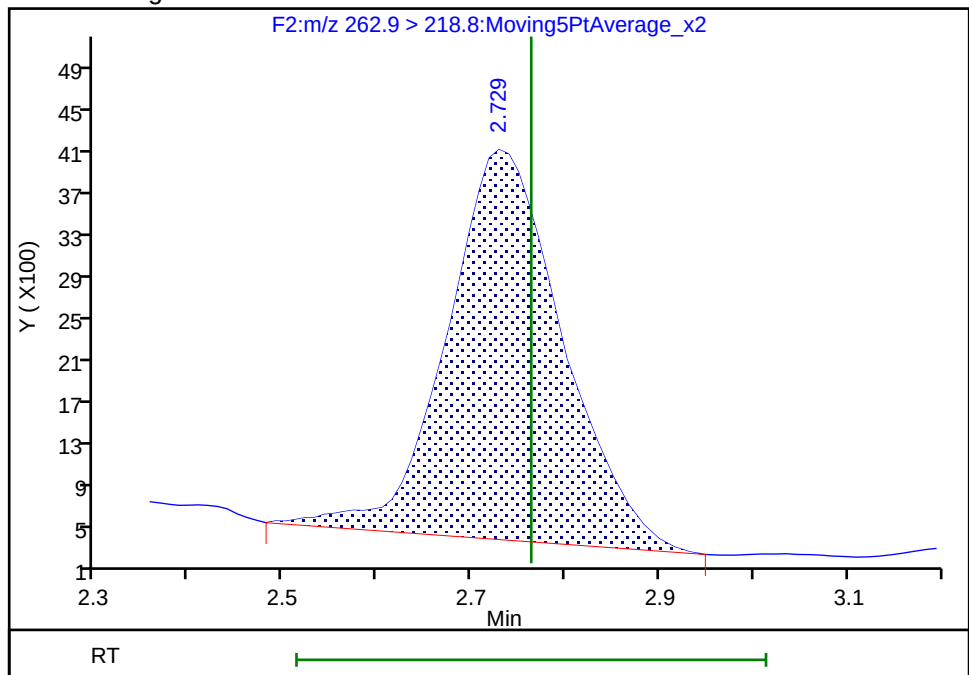
RT: 2.73  
Area: 30852  
Amount: 6.428971  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.73  
Area: 31788  
Amount: 6.624015  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:38:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

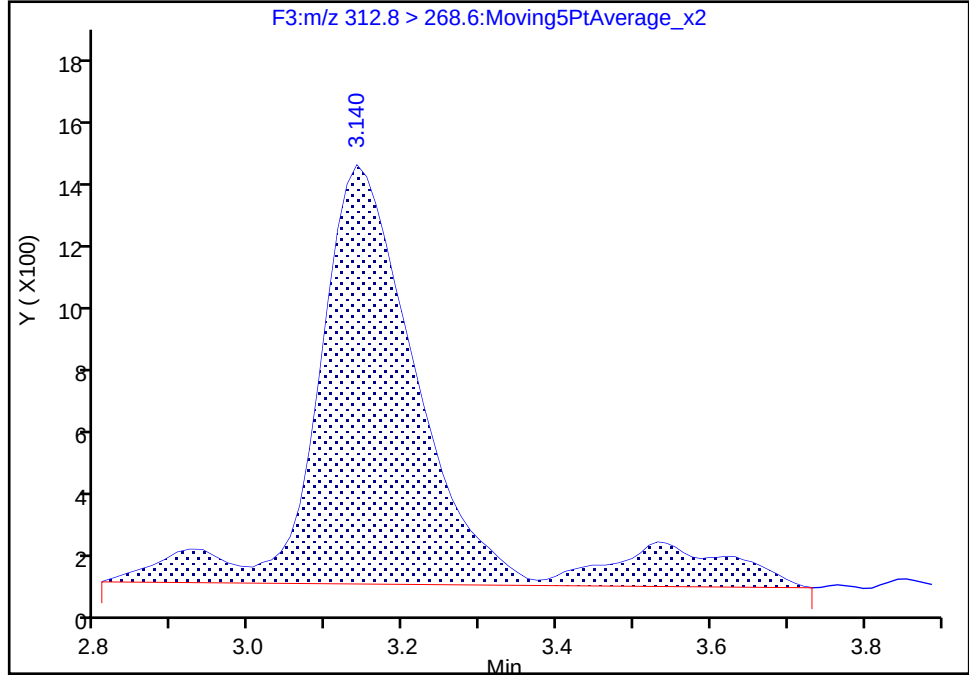
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F3:MRM       |                |    |

**8 Perfluorohexanoic acid, CAS: 307-24-4**

Signal: 1

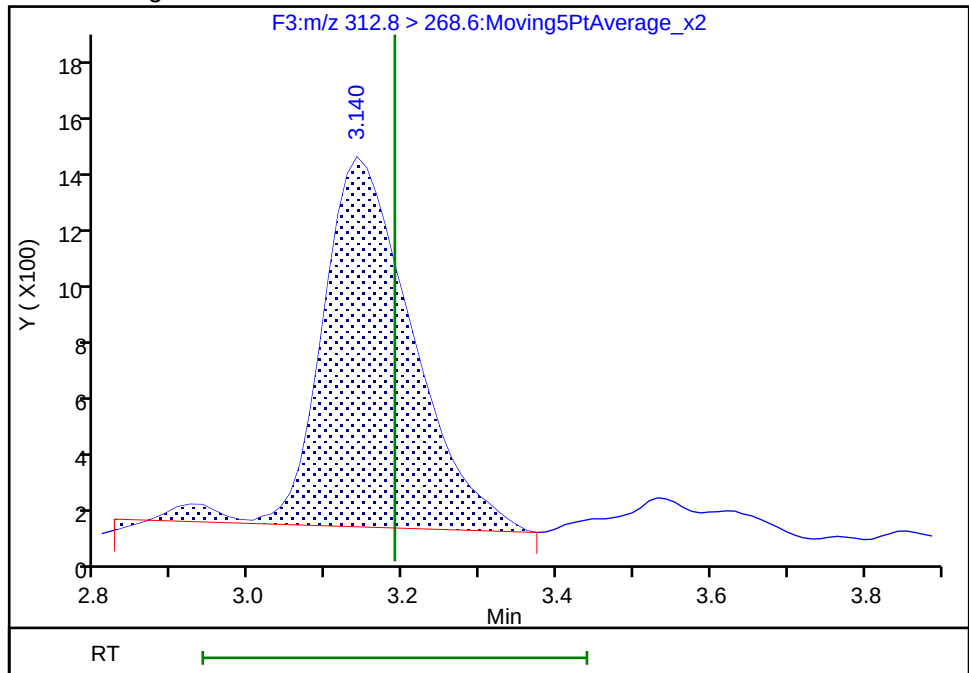
RT: 3.14  
Area: 12774  
Amount: 4.283378  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.14  
Area: 10287  
Amount: 3.449437  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:39:01  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

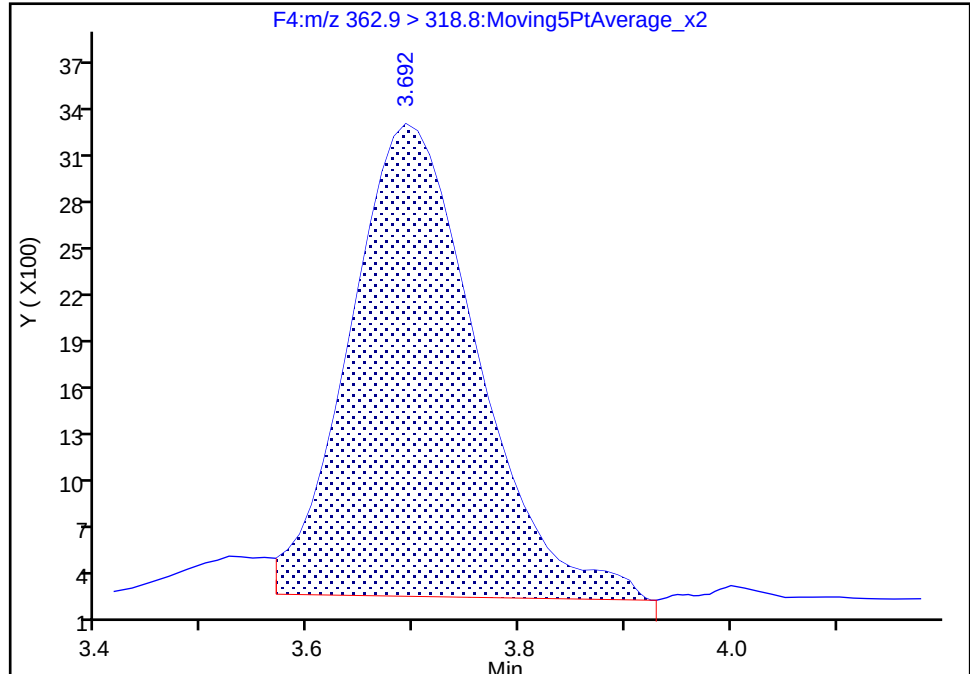
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F4:MRM       |                |    |

**10 Perfluoroheptanoic acid, CAS: 375-85-9**

Signal: 1

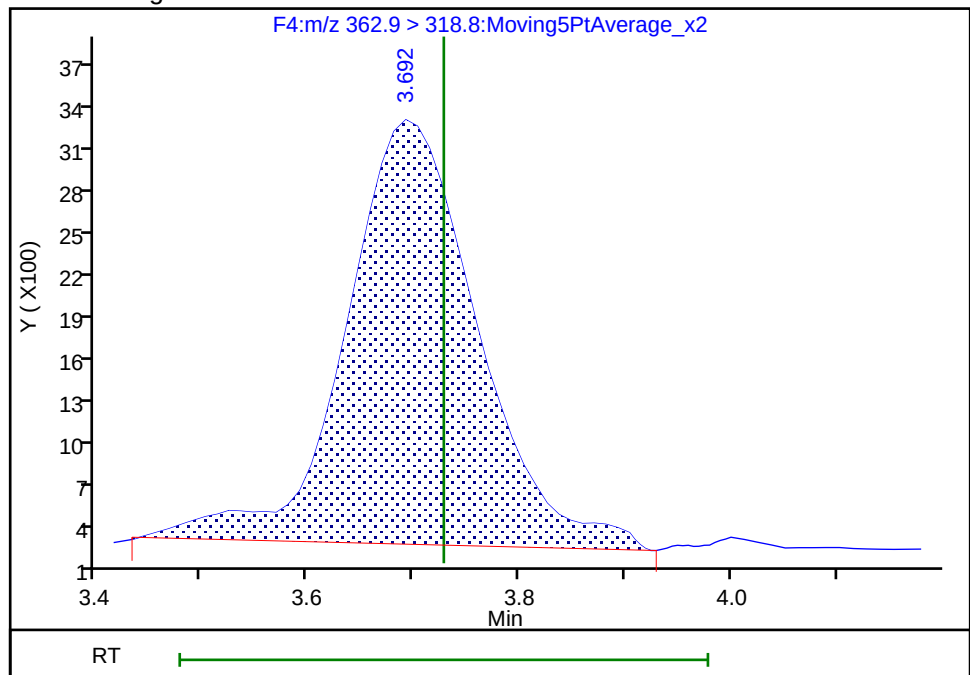
RT: 3.69  
Area: 25339  
Amount: 2.183678  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.69  
Area: 26117  
Amount: 2.250725  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:39:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

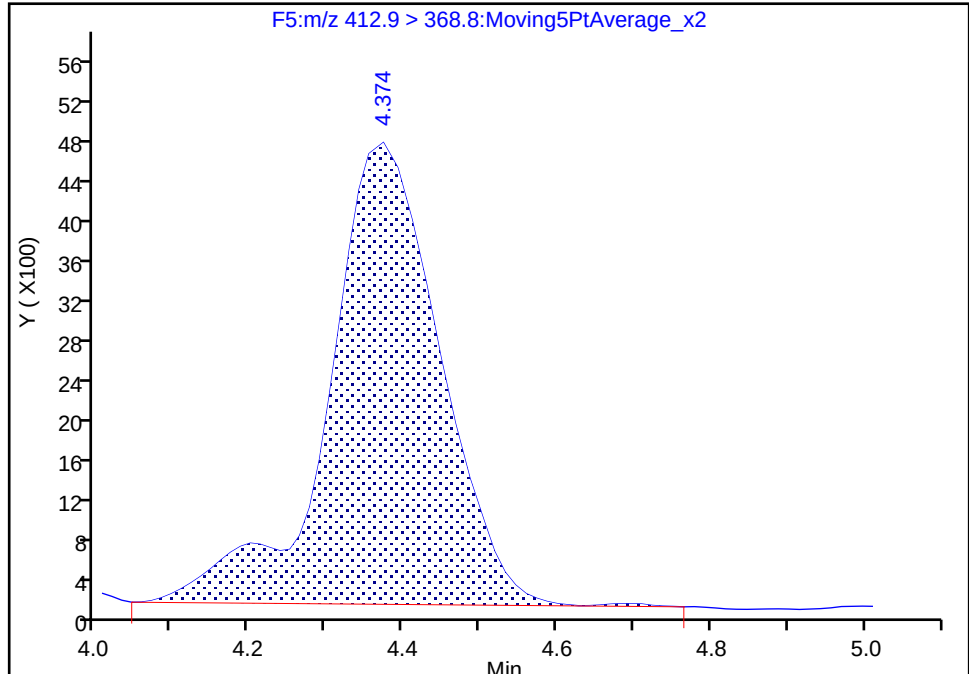
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F5:MRM       |                |    |

**16 Perfluorooctanoic acid, CAS: 335-67-1**

Signal: 1

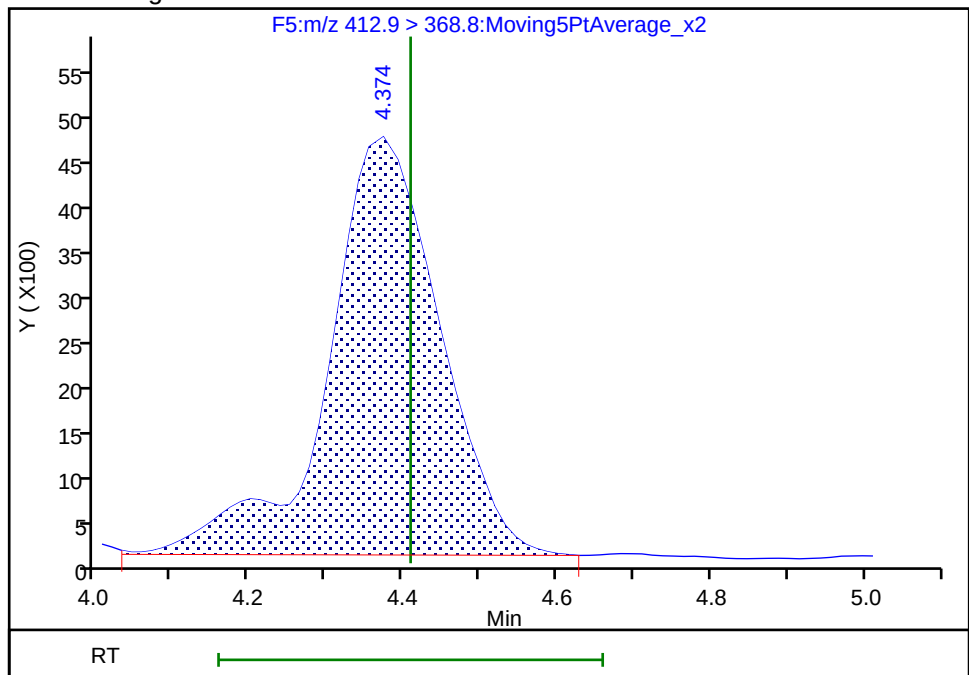
RT: 4.37  
Area: 46585  
Amount: 4.093936  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.37  
Area: 46815  
Amount: 4.114149  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:39:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

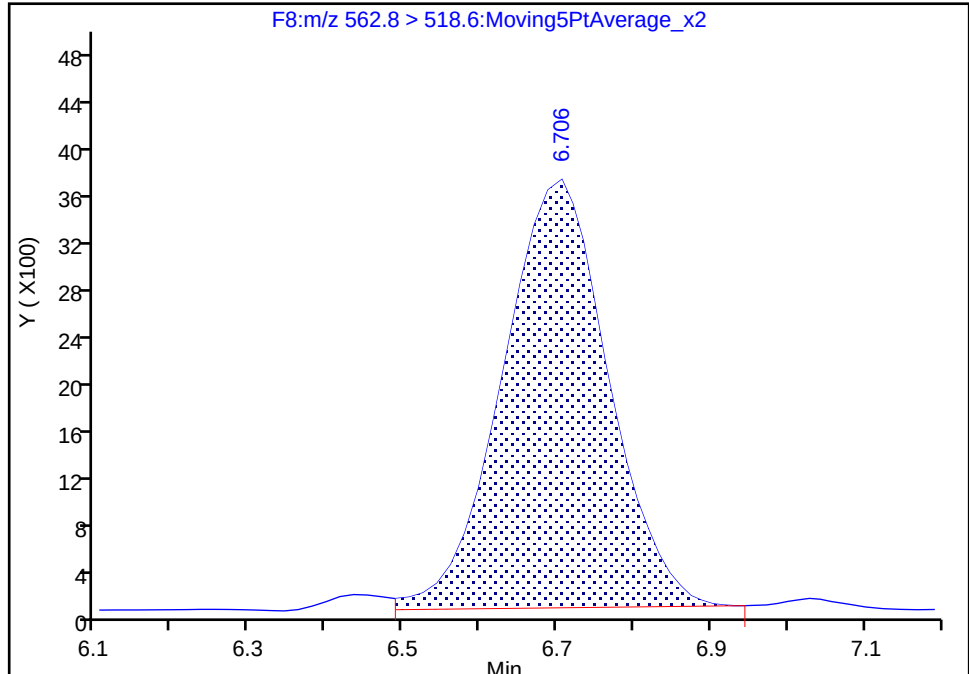
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d  
Injection Date: 12-Oct-2018 21:58:36 Instrument ID: LC410  
Lims ID: 460-165769-D-7-A Lab Sample ID: 200-165769-7  
Client ID: FSMW-1A 09272018  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F8:MRM

**33 Perfluoroundecanoic acid, CAS: 2058-94-8**

Signal: 1

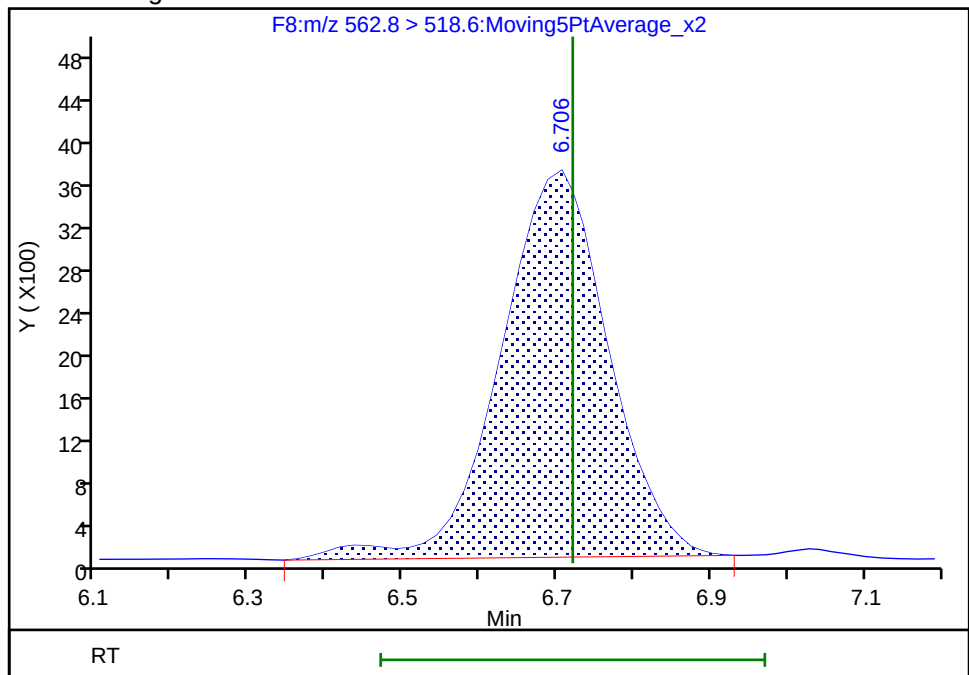
RT: 6.71  
Area: 34317  
Amount: 2.124442  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.71  
Area: 34990  
Amount: 2.166105  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:40:33  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

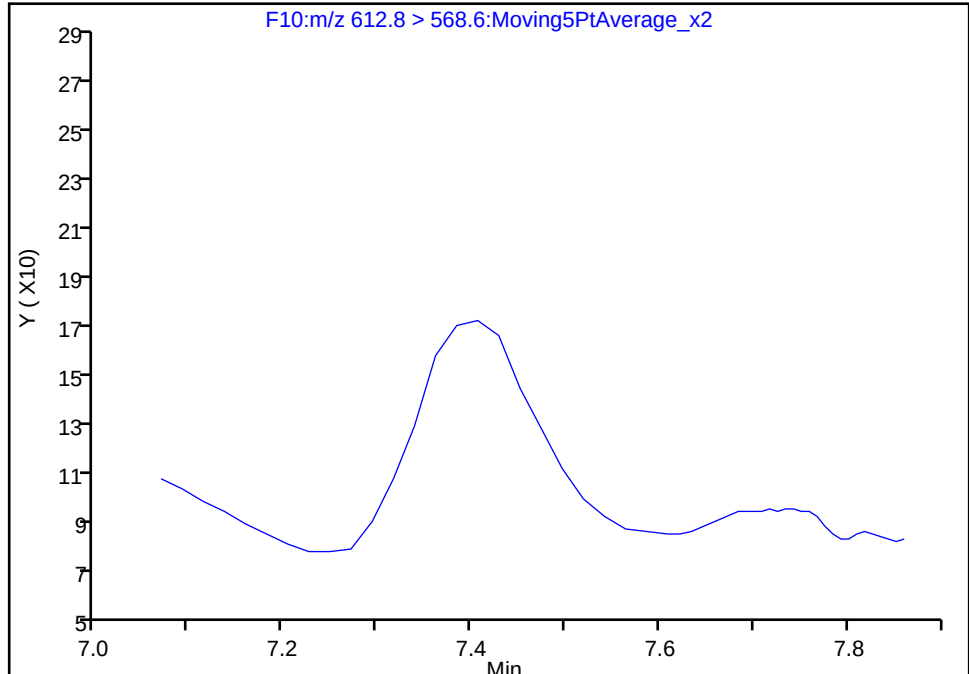
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**36 Perfluorododecanoic acid, CAS: 307-55-1**

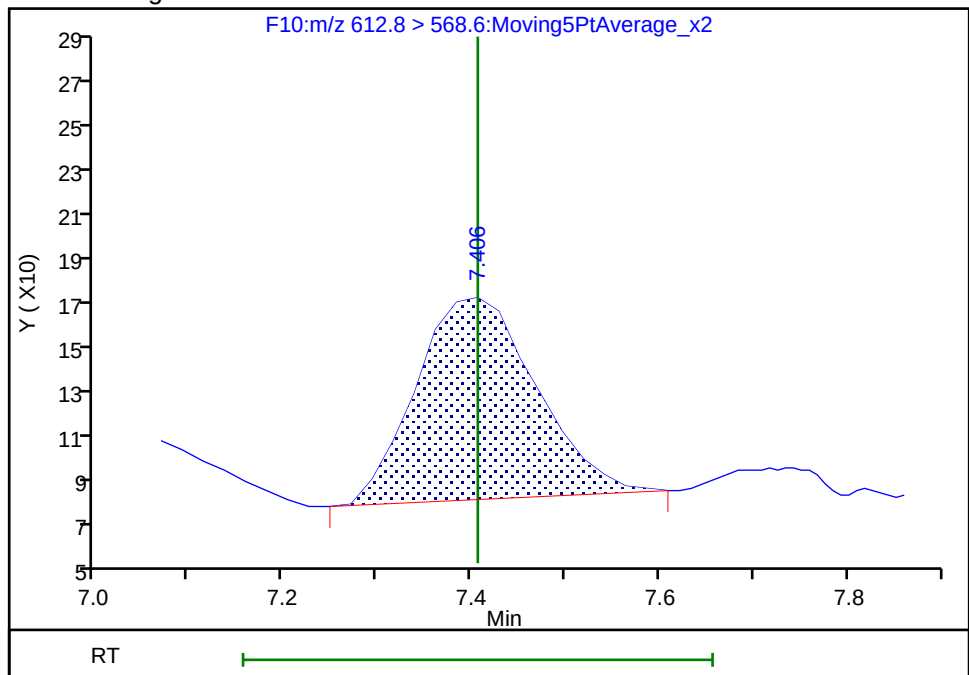
Signal: 1

Not Detected  
Expected RT: 7.41

## Processing Integration Results

RT: 7.41  
Area: 788  
Amount: 0.047026  
Amount Units: ng/ml

## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:41:05  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

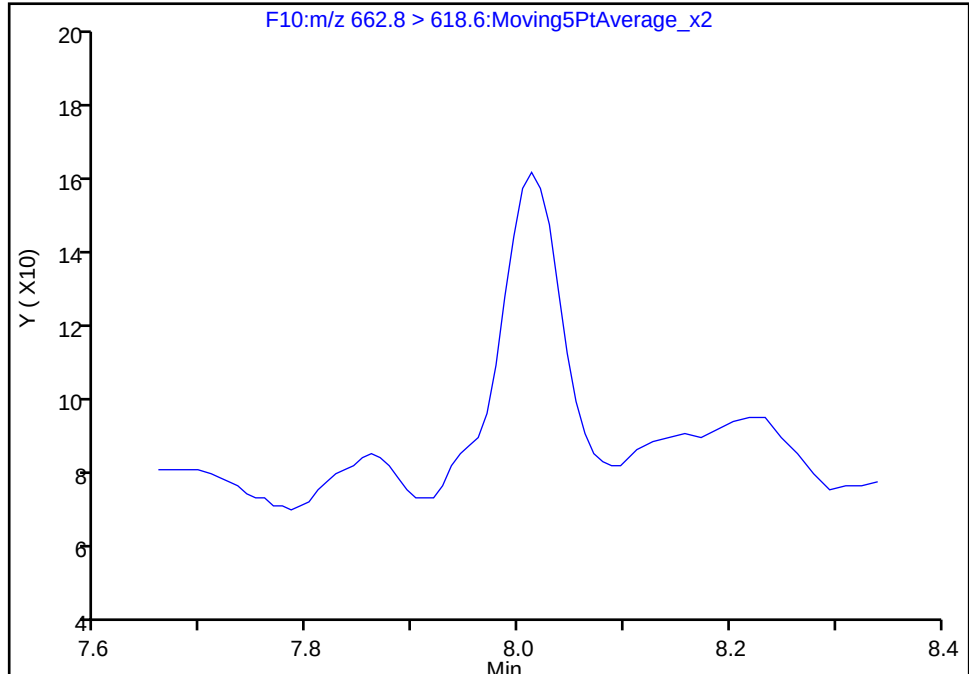
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

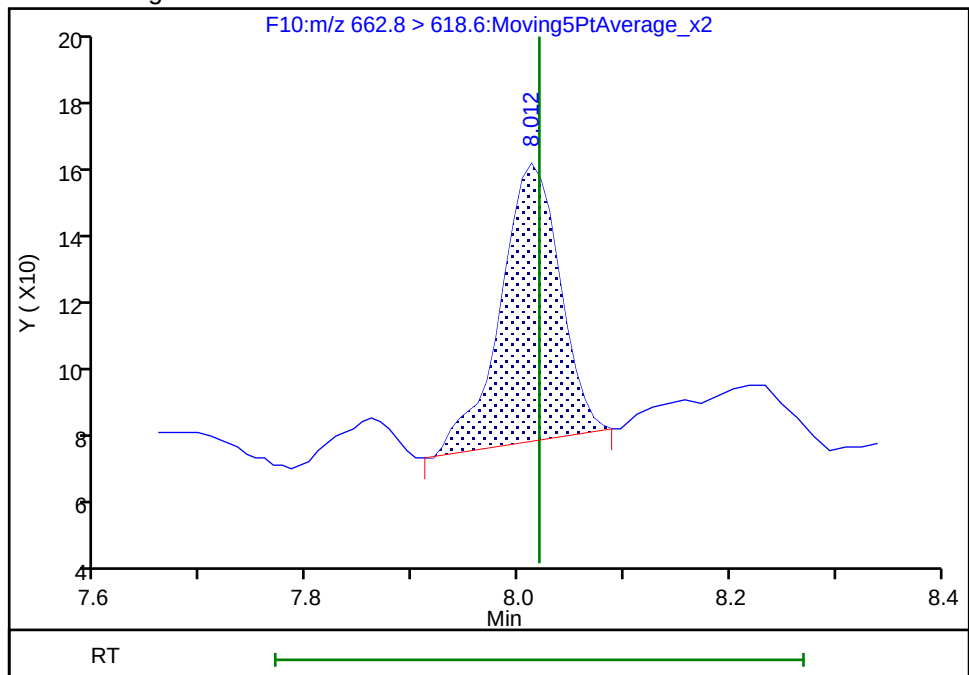
Signal: 1

Not Detected  
Expected RT: 8.02

## Processing Integration Results



## Manual Integration Results



RT: 8.01  
Area: 298  
Amount: 0.016489  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:41:01  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

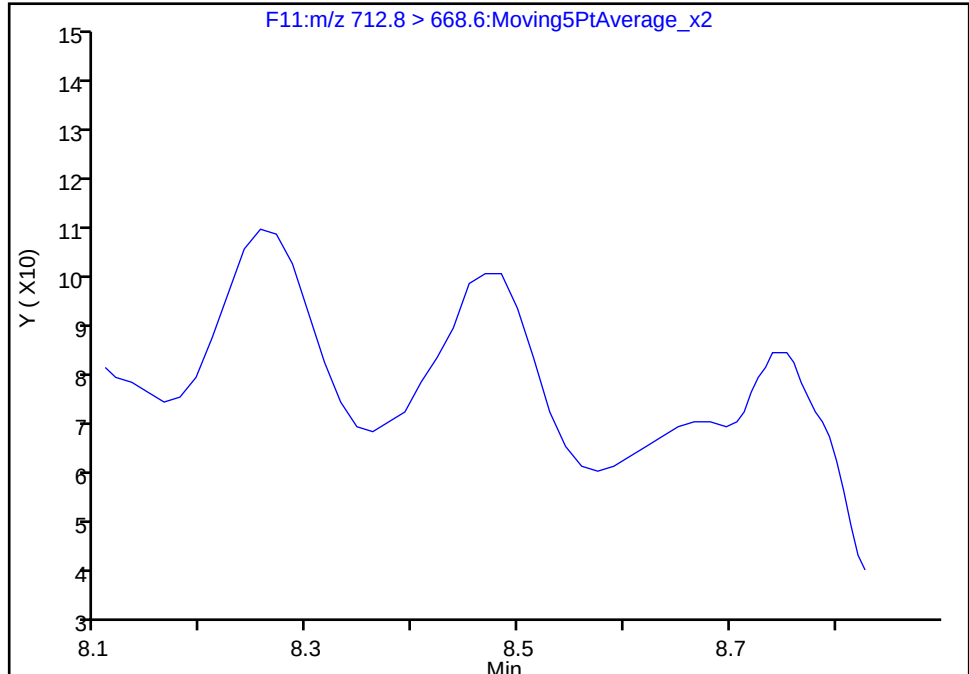
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector:      | F11:MRM      |                |    |

**39 Perfluorotetradecanoic acid, CAS: 376-06-7**

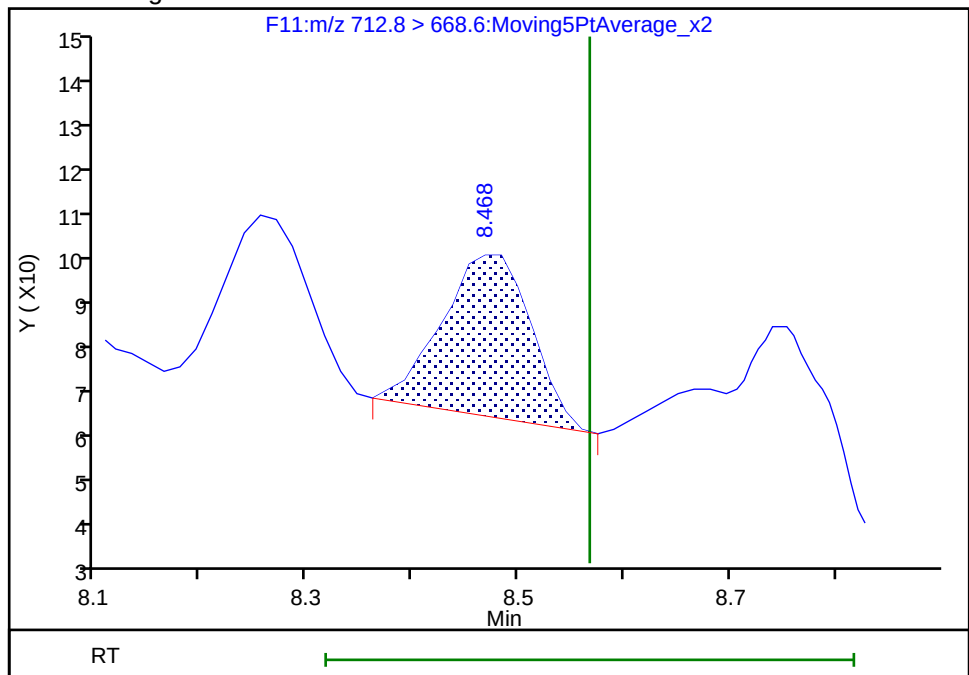
Signal: 1

Not Detected  
Expected RT: 8.57

## Processing Integration Results

RT: 8.47  
Area: 211  
Amount: 0.011111  
Amount Units: ng/ml

## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:40:50  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

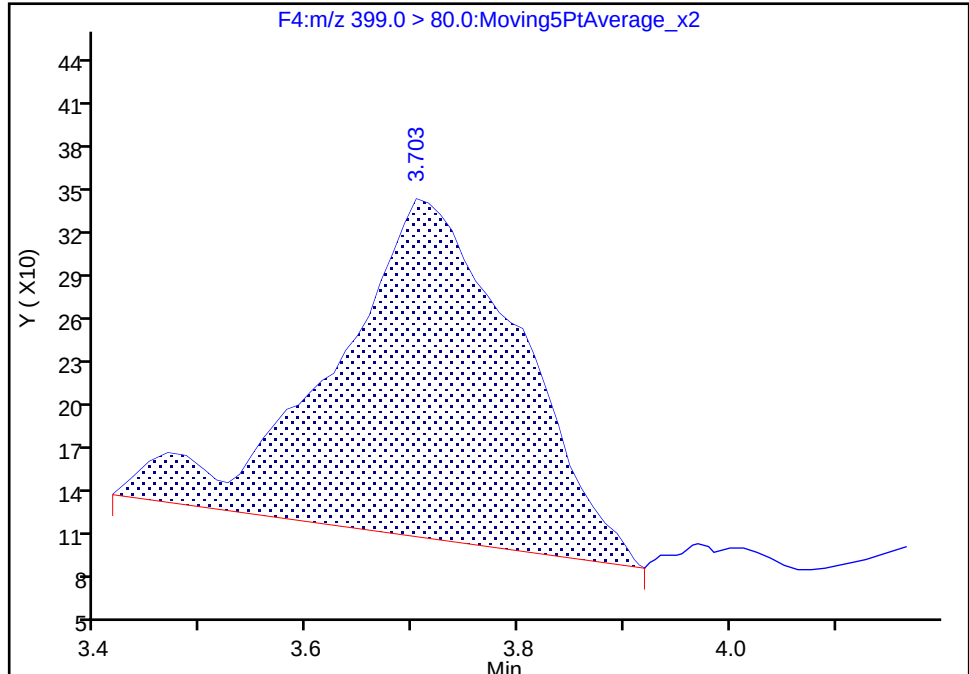
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F4:MRM       |                |    |

**12 Perfluorohexanesulfonic acid, CAS: 355-46-4**

Signal: 1

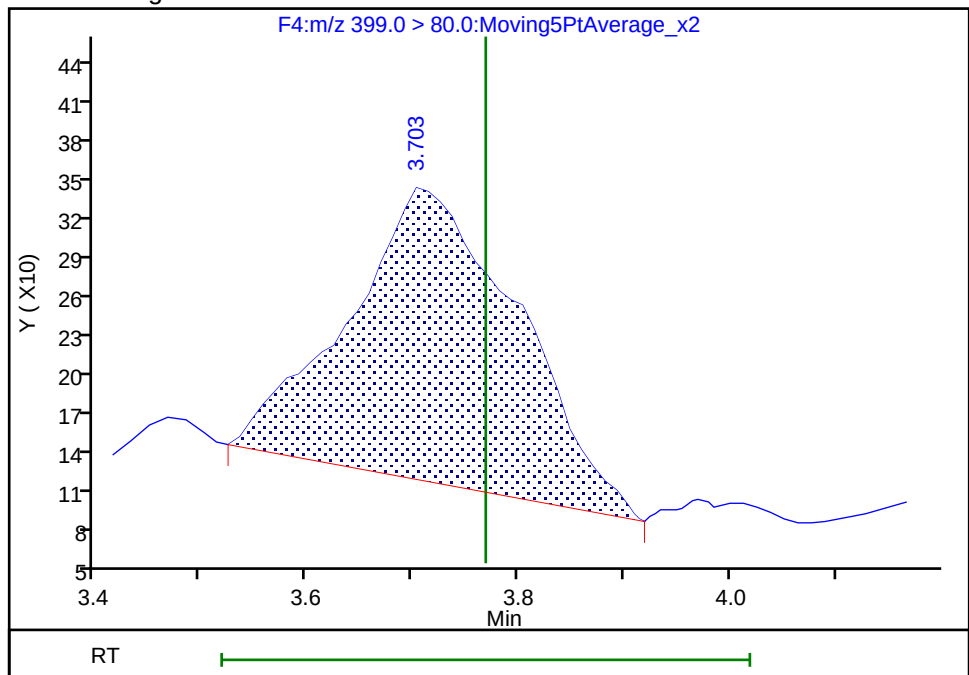
RT: 3.70  
Area: 2909  
Amount: 0.575931  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.70  
Area: 2529  
Amount: 0.500698  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:39:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

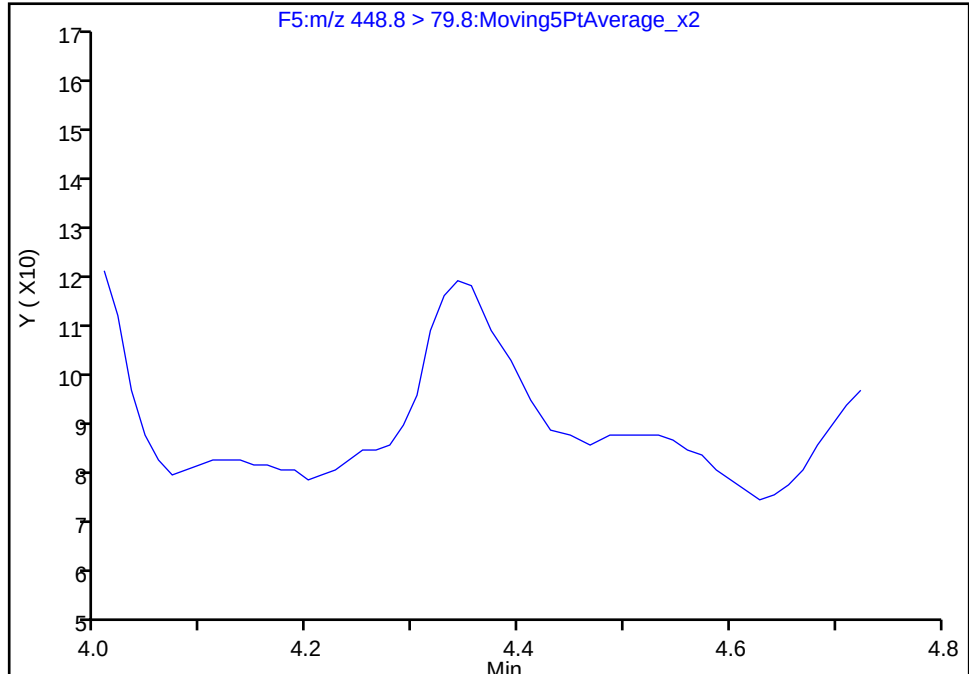
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F5:MRM       |                |    |

**18 Perfluoroheptanesulfonic acid, CAS: 375-92-8**

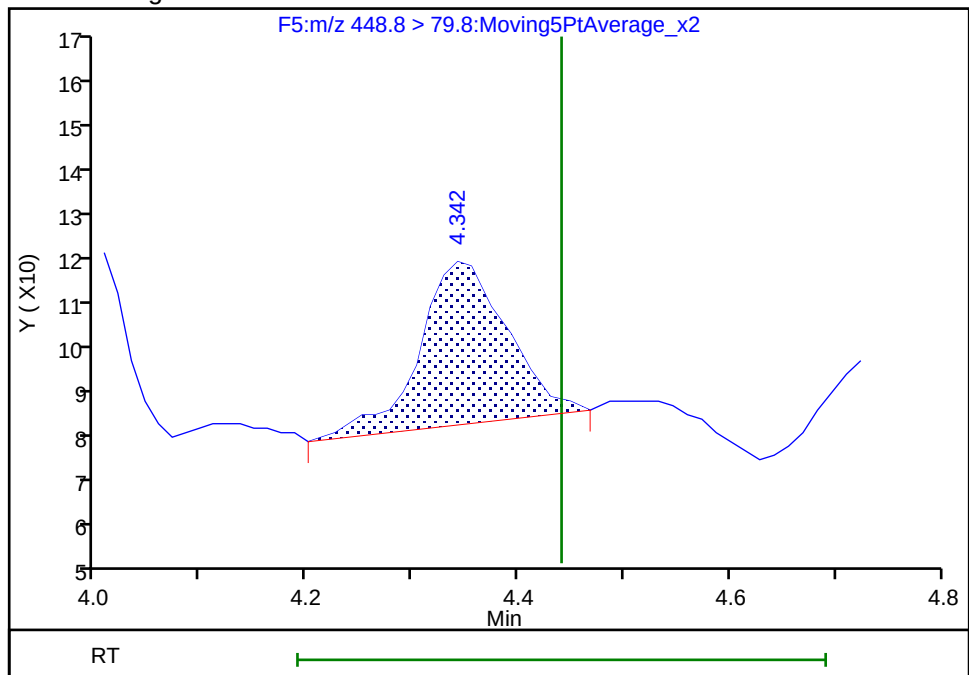
Signal: 1

Not Detected  
Expected RT: 4.44

## Processing Integration Results



## Manual Integration Results

RT: 4.34  
Area: 209  
Amount: 0.110021  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:40:10

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

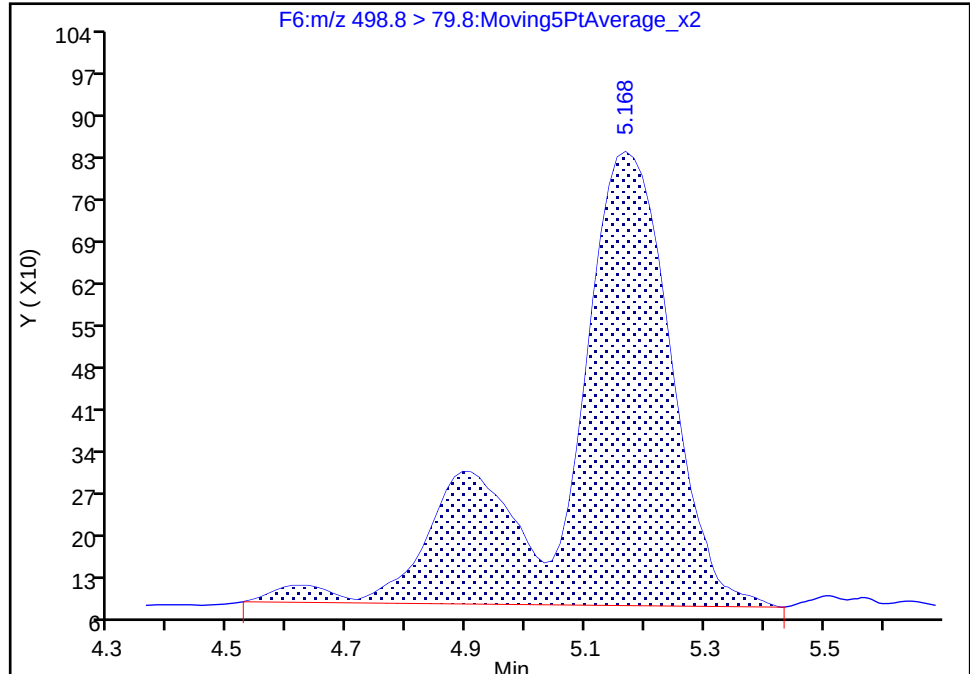
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F6:MRM       |                |    |

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

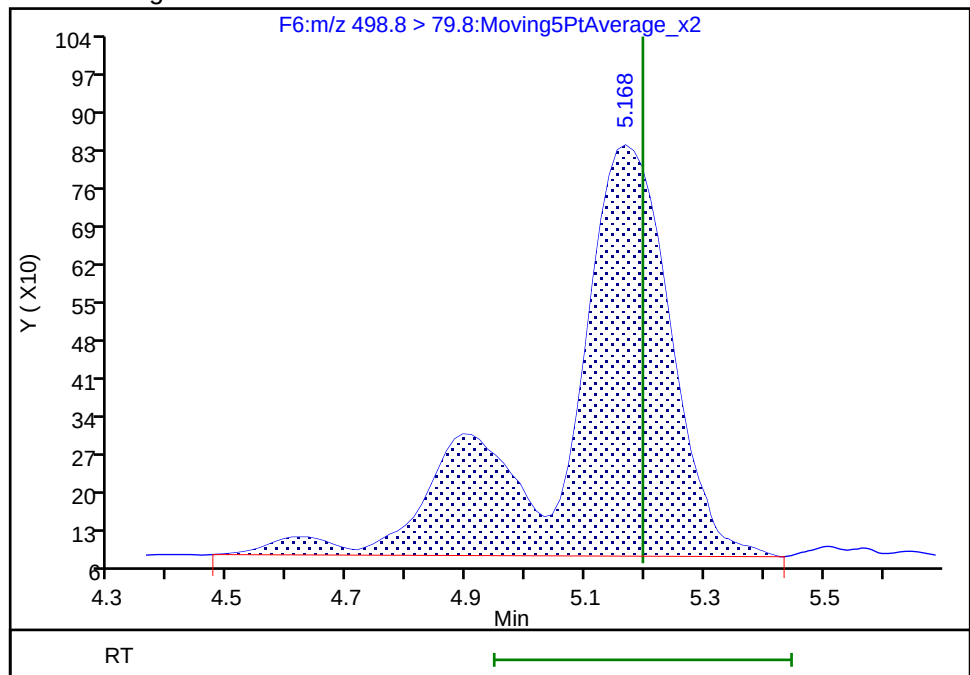
RT: 5.17  
Area: 9629  
Amount: 4.313658  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.17  
Area: 9778  
Amount: 4.380408  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:40:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

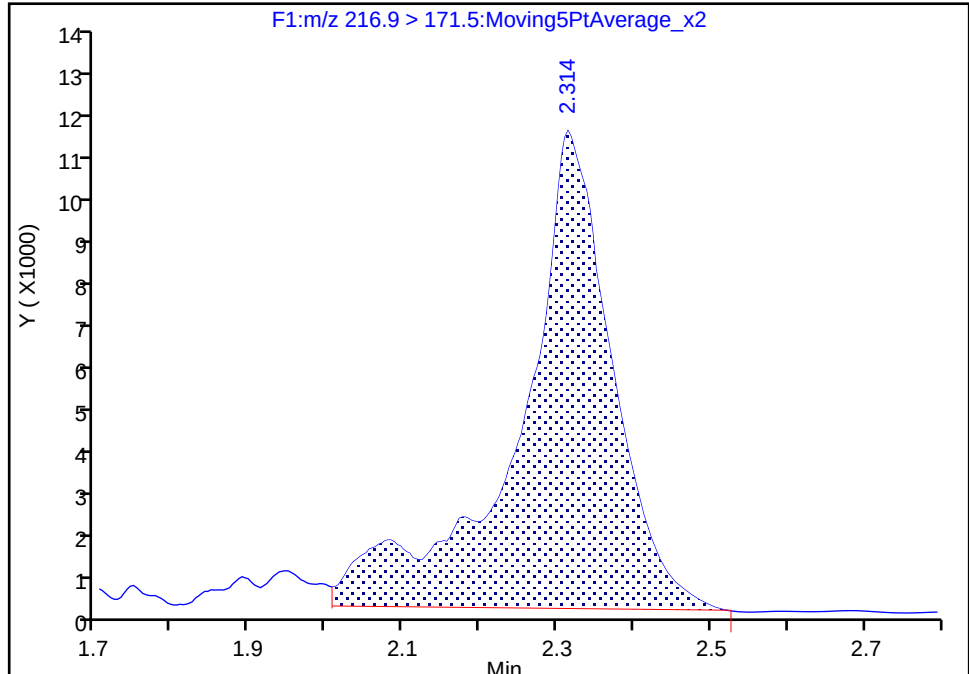
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d  
Injection Date: 12-Oct-2018 21:58:36 Instrument ID: LC410  
Lims ID: 460-165769-D-7-A Lab Sample ID: 200-165769-7  
Client ID: FSMW-1A 09272018  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**D 1 13C4 PFBA, CAS: STL00992**

Signal: 1

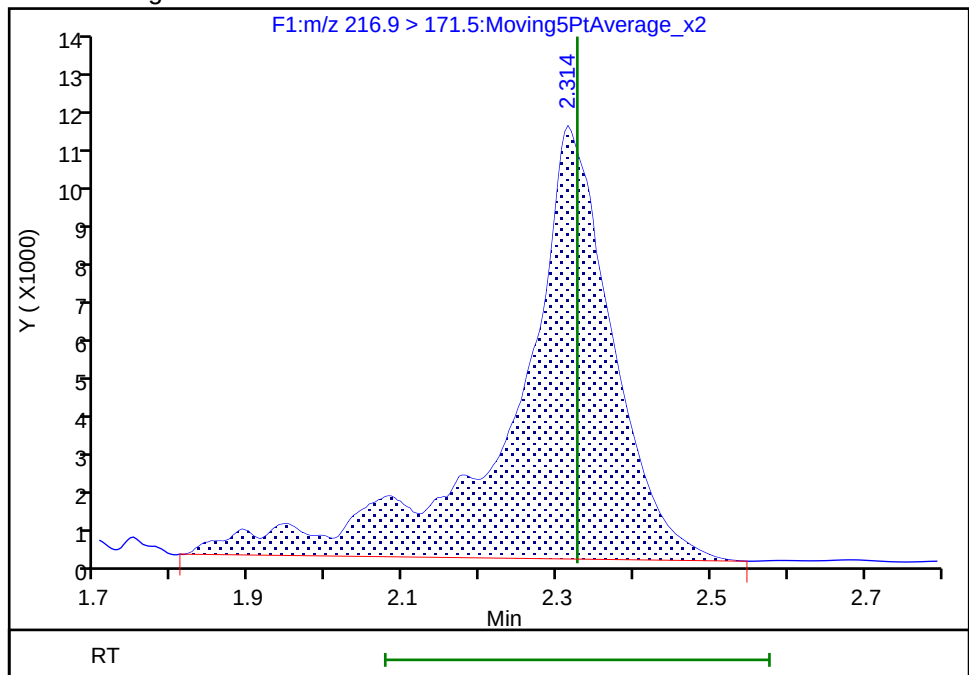
RT: 2.31  
Area: 96675  
Amount: 13.445161  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.31  
Area: 103170  
Amount: 14.348459  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:38:04  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

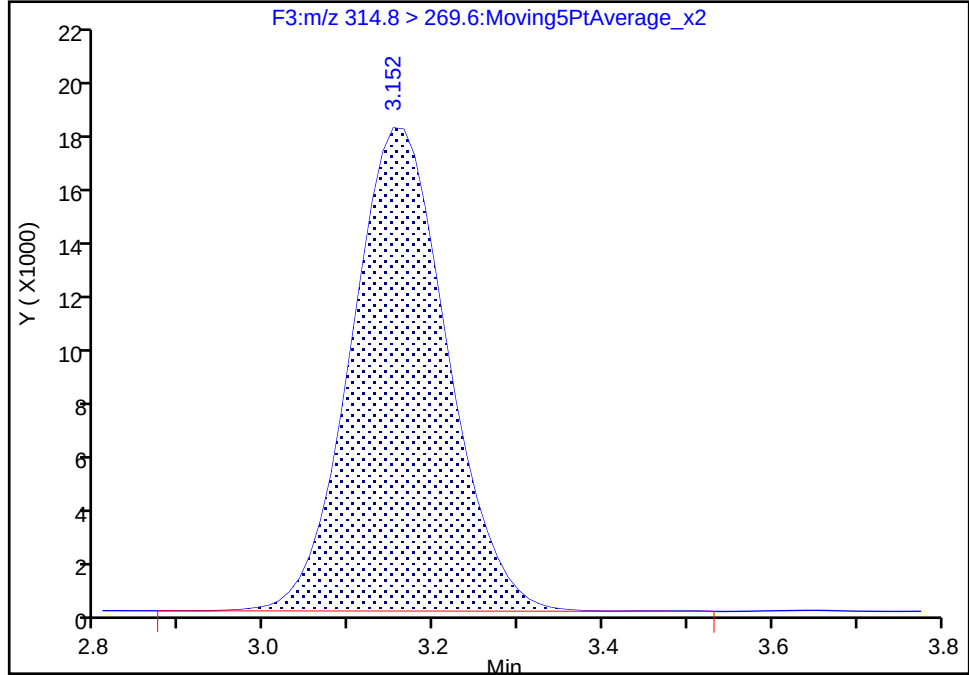
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F3:MRM       |                |    |

**D 7 13C2 PFHxA, CAS: STL00993**

Signal: 1

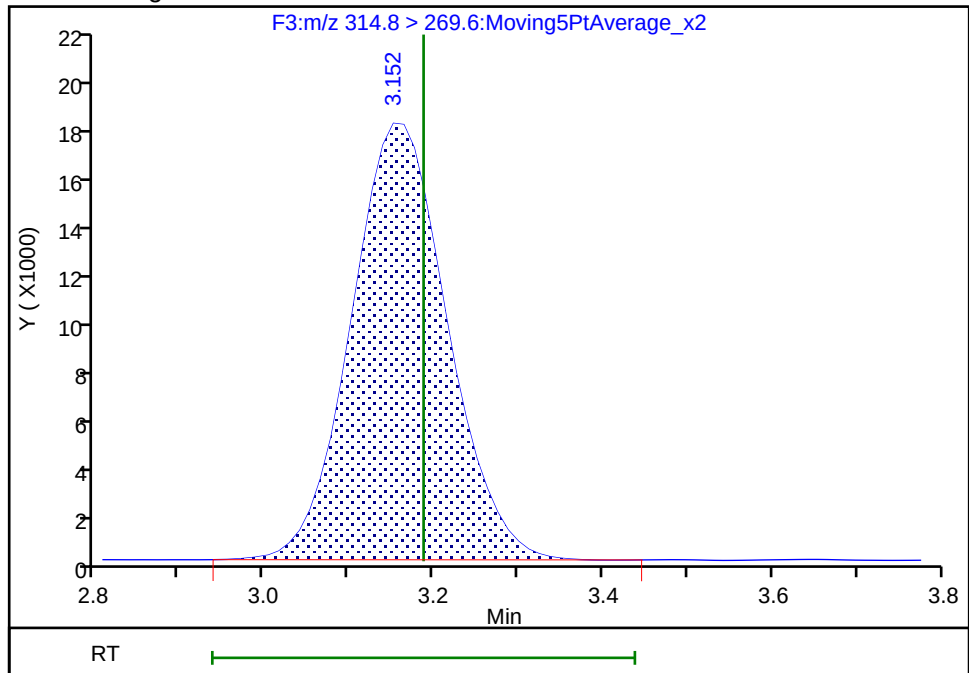
RT: 3.15  
Area: 140730  
Amount: 26.785743  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.15  
Area: 140303  
Amount: 26.704470  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:38:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

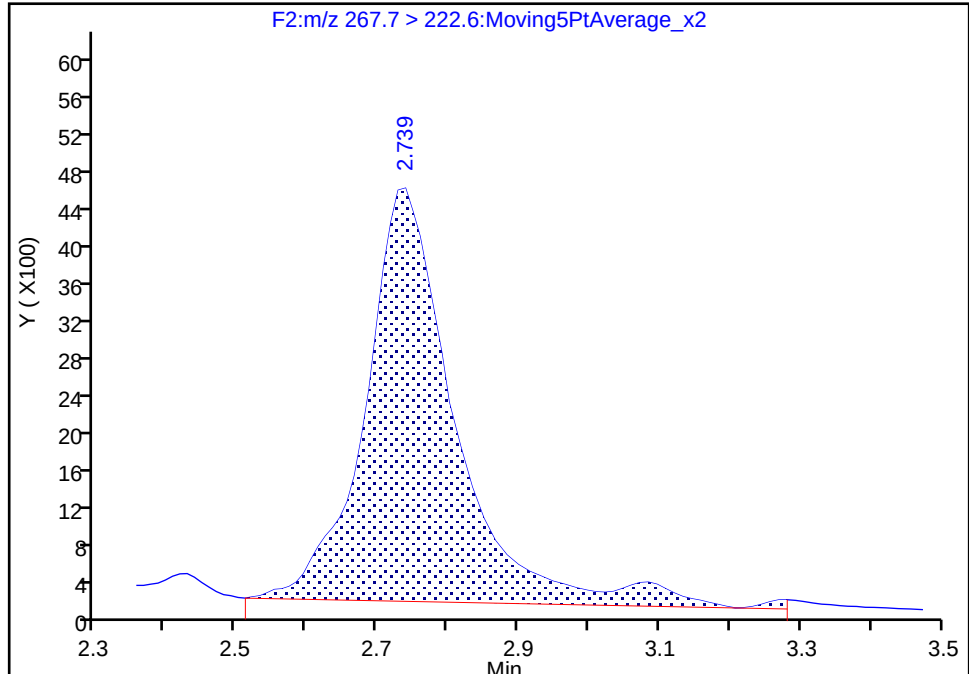
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A23.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 21:58:36                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-7-A                                                    | Lab Sample ID: | 200-165769-7 |                |    |
| Client ID:      | FSMW-1A 09272018                                                    |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 23 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

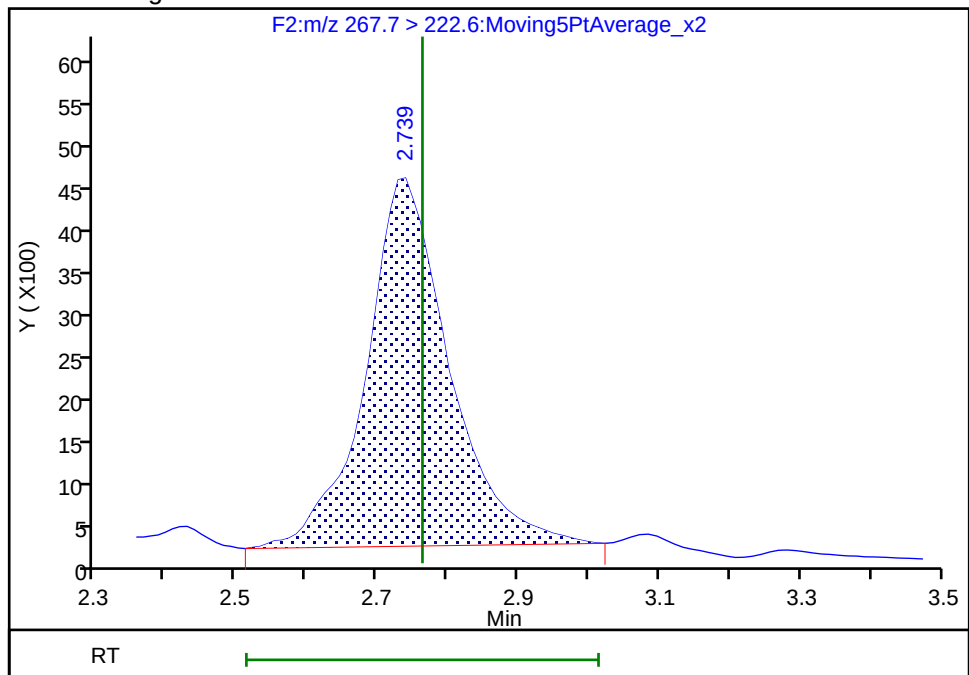
RT: 2.74  
Area: 39256  
Amount: 22.759357  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.74  
Area: 35435  
Amount: 20.544065  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:38:40  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: <u>EB2 09272018</u>   | Lab Sample ID: <u>460-165769-8</u>         |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A24.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/27/2018 11:30</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>283 (mL)</u>          | Date Analyzed: <u>10/12/2018 22:14</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q | RL   | MDL  |
|------------|----------------------------------------------------------|--------|---|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 0.36   | U | 1.77 | 0.36 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 0.66   | U | 1.77 | 0.66 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 0.21   | U | 1.77 | 0.21 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 0.28   | U | 1.77 | 0.28 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 0.28   | U | 1.77 | 0.28 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 0.34   | U | 1.77 | 0.34 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 0.34   | U | 1.77 | 0.34 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 0.22   | U | 1.77 | 0.22 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 0.31   | U | 1.77 | 0.31 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 0.21   | U | 1.77 | 0.21 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 0.40   | U | 1.77 | 0.40 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 0.39   | U | 1.77 | 0.39 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 0.23   | U | 1.77 | 0.23 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.72   | U | 1.77 | 0.72 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 0.67   | U | 1.77 | 0.67 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 0.47   | U | 1.77 | 0.47 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 0.49   | U | 1.77 | 0.49 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.40   | U | 17.7 | 0.40 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.62   | U | 17.7 | 0.62 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.88   | U | 17.7 | 0.88 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.49   | U | 17.7 | 0.49 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: <u>EB2 09272018</u>   | Lab Sample ID: <u>460-165769-8</u>         |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A24.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/27/2018 11:30</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>283 (mL)</u>          | Date Analyzed: <u>10/12/2018 22:14</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 89   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 89   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 95   |   | 25-150 |
| STL00991 | 13C4 PFOS        | 84   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 92   |   | 25-150 |
| STL00992 | 13C4 PFBA        | 84   |   | 25-150 |
| STL00993 | 13C2 PFHxA       | 88   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 92   |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 94   |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 88   |   | 25-150 |
| STL01056 | 13C8 FOSA        | 52   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 83   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 86   |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 77   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 84   |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 87   |   | 25-150 |
| STL02280 | M2-8:2 FTS       | 89   |   | 25-150 |
| STL02337 | 13C3 PFBS        | 93   |   | 25-150 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d  
 Lims ID: 460-165769-E-8-A  
 Client ID: EB2 09272018  
 Sample Type: Client  
 Inject. Date: 12-Oct-2018 22:14:34 ALS Bottle#: 0 Worklist Smp#: 24  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-024 8  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:43:45 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
 Column 1 : Det: F1:MRM  
 Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:48:38

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |           |           |           |          |                 |               |      |      |       |
| 216.9 > 171.5                         | 2.338 | 2.326     | 0.012     | 1.000     | 404116   | 42.2            |               | 84.3 | 221  |       |
| 2 Perfluorobutanoic acid              |       |           |           |           |          |                 |               |      |      | M     |
| 212.9 > 168.9                         | 2.343 | 2.344     | -0.001    | 1.002     | 1234     | 0.1594          |               |      | 1.6  | M     |
| D 3 13C5 PFPeA                        |       |           |           |           |          |                 |               |      |      |       |
| 267.7 > 222.6                         | 2.760 | 2.763     | -0.003    | 1.000     | 94870    | 41.3            |               | 82.5 | 188  |       |
| 4 Perfluoropentanoic acid             |       |           |           |           |          |                 |               |      |      | M     |
| 262.9 > 218.8                         | 2.791 | 2.763     | 0.028     | 1.011     | 2298     | 0.1789          |               |      | 4.9  | M     |
| D 6 13C3 PFBS                         |       |           |           |           |          |                 |               |      |      | M     |
| 302.0 > 79.8                          | 2.818 | 2.829     | -0.011    | 1.000     | 145854   | 43.4            |               | 93.3 | 885  | M     |
| 5 Perfluorobutanesulfonic acid        |       |           |           |           |          |                 |               |      |      | M     |
| 298.9 > 80.0                          | 2.818 | 2.830     | -0.012    | 1.000     | 715      | 0.1121          |               |      | 5.5  | M     |
| D 7 13C2 PFHxA                        |       |           |           |           |          |                 |               |      |      |       |
| 314.8 > 269.6                         | 3.189 | 3.188     | 0.001     | 1.000     | 309086   | 44.1            |               | 88.3 | 1492 |       |
| 8 Perfluorohexanoic acid              |       |           |           |           |          |                 |               |      |      | M     |
| 312.8 > 268.6                         | 3.152 | 3.189     | -0.037    | 0.988     | 404      | 0.0615          |               |      | 4.2  | M     |
| D 9 13C4 PFHpA                        |       |           |           |           |          |                 |               |      |      |       |
| 366.9 > 321.8                         | 3.726 | 3.725     | 0.001     | 1.000     | 912584   | 44.5            |               | 89.0 | 2389 |       |
| 10 Perfluoroheptanoic acid            |       |           |           |           |          |                 |               |      |      | M     |
| 362.9 > 318.8                         | 3.692 | 3.728     | -0.036    | 0.991     | 628      | 0.0342          |               |      | 2.5  | M     |
| D 11 18O2 PFHxS                       |       |           |           |           |          |                 |               |      |      |       |
| 402.9 > 83.8                          | 3.759 | 3.770     | -0.011    | 1.000     | 171294   | 42.2            |               | 89.3 | 441  |       |
| D 13 M2-6:2 FTS                       |       |           |           |           |          |                 |               |      |      |       |
| 428.6 > 408.6                         | 4.342 | 4.353     | -0.011    | 1.000     | 30505    | 41.2            |               | 86.8 | 215  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |           |           |           |          |                 |               |      |      | M     |
| 426.6 > 406.6                         | 4.355 | 4.355     | 0.0       | 1.003     | 159      | 0.2395          |               |      | 3.1  | M     |
| * 15 13C2 PFOA                        |       |           |           |           |          |                 |               |      |      |       |
| 414.9 > 369.8                         | 4.393 | 4.401     | -0.008    |           | 888755   | 50.0            |               |      | 7625 |       |



| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N   | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|-------|-------|
| D 17 13C4 PFOA                 |       |           |           |           |          |                 |                 |      |       |       |
| 416.9 > 371.8                  | 4.393 | 4.407     | -0.014    | 1.000     | 778704   | 47.3            |                 | 94.7 | 2581  |       |
| 16 Perfluorooctanoic acid      |       |           |           |           |          |                 |                 |      |       | M     |
| 412.9 > 368.8                  | 4.411 | 4.409     | 0.002     | 1.004     | 2485     | 0.1524          |                 |      | 10.9  | M     |
| D 20 13C5 PFNA                 |       |           |           |           |          |                 |                 |      |       |       |
| 467.8 > 422.8                  | 5.168 | 5.171     | -0.003    | 1.000     | 963951   | 45.8            |                 | 91.6 | 1839  |       |
| 19 Perfluorononanoic acid      |       |           |           |           |          |                 |                 |      |       | M     |
| 462.8 > 418.8                  | 5.195 | 5.175     | 0.020     | 1.005     | 541      | -0.4909         |                 |      | 2.7   | M     |
| D 22 13C4 PFOS                 |       |           |           |           |          |                 |                 |      |       |       |
| 502.8 > 79.8                   | 5.181 | 5.195     | -0.014    | 1.000     | 137273   | 40.4            |                 | 84.5 | 694   |       |
| D 24 M2-8:2 FTS                |       |           |           |           |          |                 |                 |      |       |       |
| 528.8 > 508.8                  | 5.926 | 5.929     | -0.003    | 1.000     | 237067   | 42.6            |                 | 89.0 | 1373  |       |
| D 26 13C2 PFDA                 |       |           |           |           |          |                 |                 |      |       |       |
| 514.9 > 469.5                  | 5.950 | 5.950     | 0.0       | 1.000     | 1061854  | 46.0            |                 | 92.1 | 10050 |       |
| D 27 d3-NMeFOSAA               |       |           |           |           |          |                 |                 |      |       |       |
| 572.8 > 418.8                  | 6.295 | 6.311     | -0.016    | 1.000     | 250214   | 38.5            |                 | 77.0 | 1999  |       |
| D 29 d5-NEtFOSAA               |       |           |           |           |          |                 |                 |      |       |       |
| 588.9 > 418.8                  | 6.652 | 6.674     | -0.022    | 1.000     | 235644   | 41.8            |                 | 83.5 | 1575  |       |
| D 32 13C2 PFUnA                |       |           |           |           |          |                 |                 |      |       |       |
| 564.8 > 519.8                  | 6.706 | 6.720     | -0.014    | 1.000     | 1248272  | 47.2            |                 | 94.4 | 4624  |       |
| 33 Perfluoroundecanoic acid    |       |           |           |           |          |                 |                 |      |       |       |
| 562.8 > 518.6                  | 6.706 | 6.720     | -0.014    | 1.000     | 1811     | 0.0819          |                 |      | 21.1  |       |
| D 35 13C8 FOSA                 |       |           |           |           |          |                 |                 |      |       |       |
| 505.8 > 77.8                   | 6.959 | 6.973     | -0.014    | 1.000     | 156561   | 26.0            |                 | 51.9 | 844   |       |
| D 37 13C2 PFDaA                |       |           |           |           |          |                 |                 |      |       |       |
| 614.8 > 569.6                  | 7.384 | 7.402     | -0.018    | 1.000     | 1280232  | 44.2            |                 | 88.4 | 1865  |       |
| 36 Perfluorododecanoic acid    |       |           |           |           |          |                 |                 |      |       | M     |
| 612.8 > 568.6                  | 7.362 | 7.407     | -0.045    | 0.997     | 887      | 0.0401          |                 |      | 4.6   | M     |
| 38 Perfluorotridecanoic acid   |       |           |           |           |          |                 |                 |      |       | M     |
| 662.8 > 618.6                  | 8.012 | 8.020     | -0.008    | 0.938     | 505      | 0.0224          |                 |      | 3.1   | M     |
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |       |       |
| 714.8 > 669.6                  | 8.544 | 8.563     | -0.019    | 1.000     | 1212438  | 43.1            |                 | 86.1 | 1690  |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |       | M     |
| 712.8 > 668.6                  | 8.575 | 8.567     | 0.008     | 1.004     | 910      | 0.0384          |                 |      | 5.8   | M     |
| 712.8 > 168.8                  | 8.560 | 8.567     | -0.007    | 0.000     | 0        |                 | 0.00(0.00-0.00) |      |       |       |
| 712.8 > 218.8                  | 8.560 | 8.567     | -0.007    | 0.000     | 0        |                 | 0.00(0.00-0.00) |      |       |       |

## QC Flag Legend

Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A24.d

Injection Date: 12-Oct-2018 22:14:34

Instrument ID: LC410

Lims ID: 460-165769-E-8-A

Lab Sample ID: 200-165769-8

Client ID: EB2 09272018

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 24

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

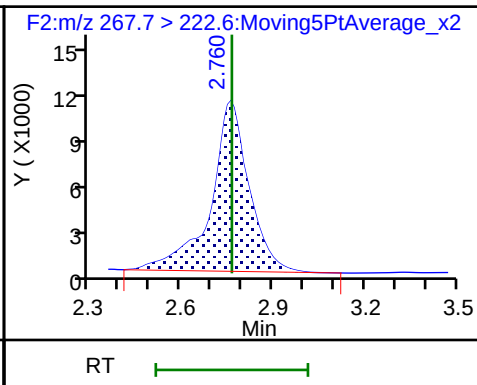
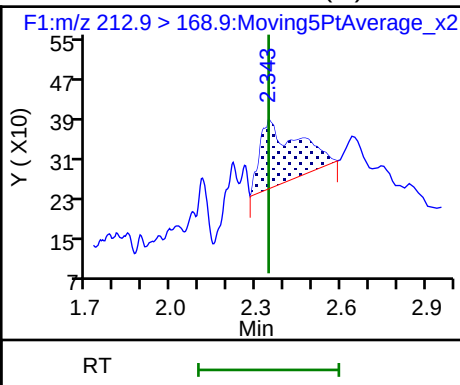
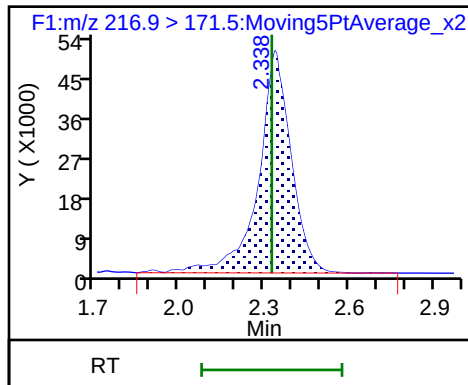
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

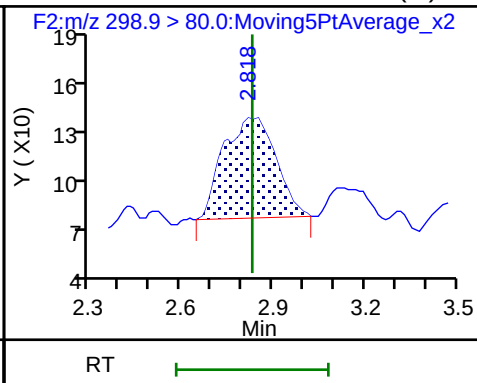
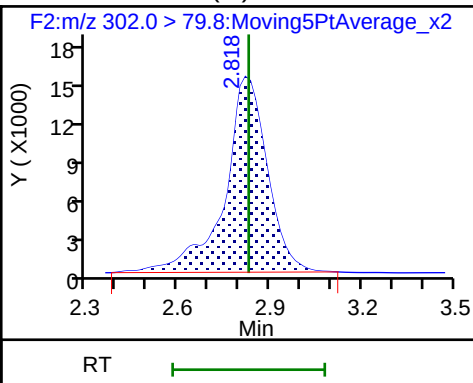
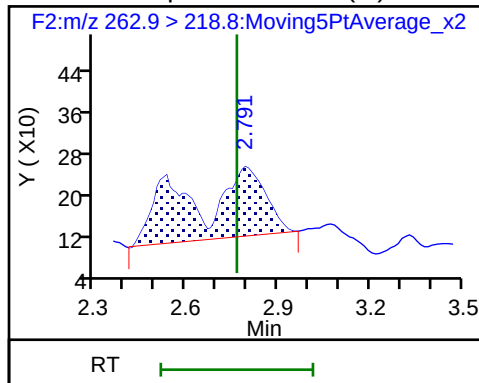
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS (M)

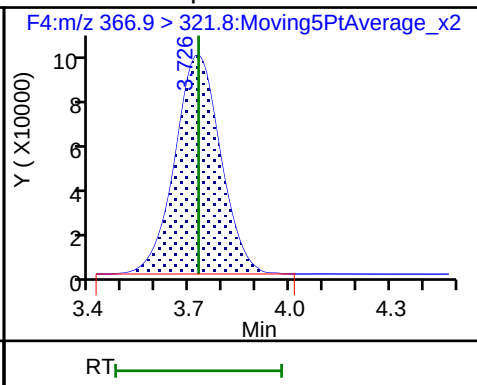
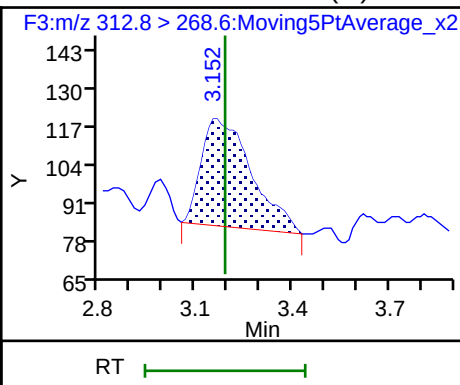
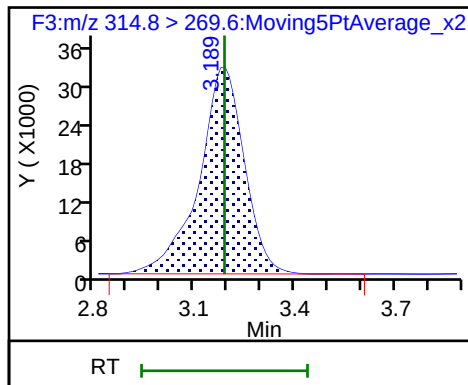
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid (M)

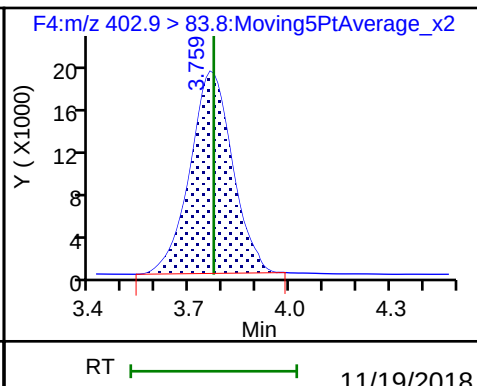
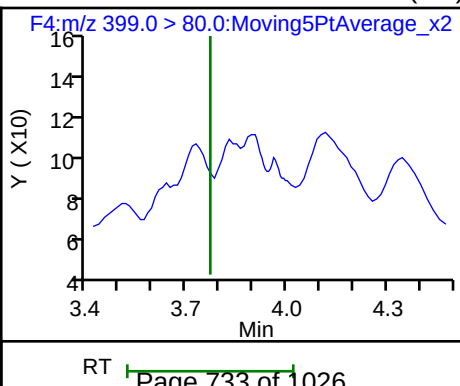
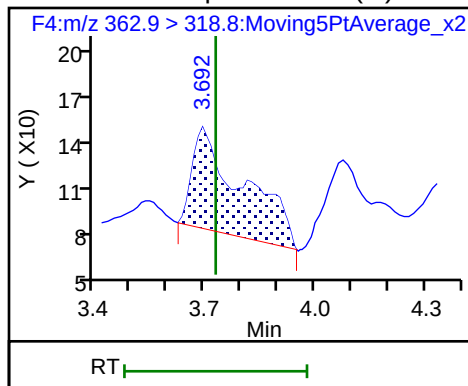
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid (M)

12 Perfluorohexanesulfonic acid (ND)

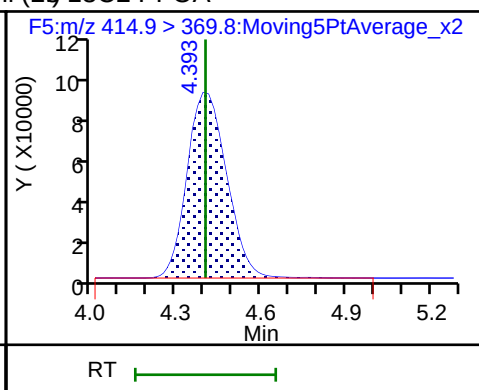
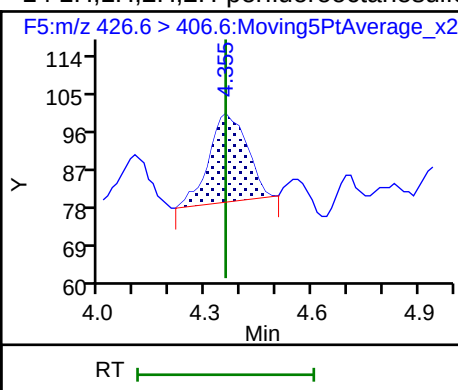
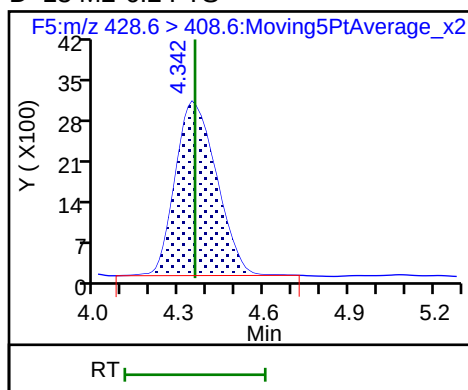
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate (M)

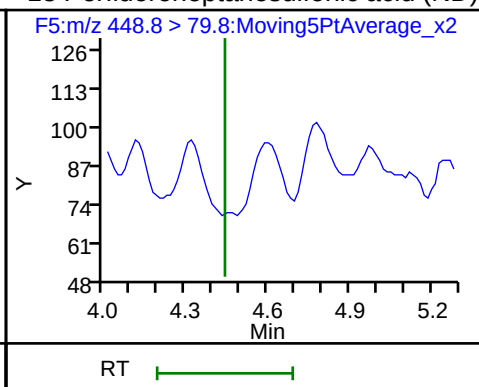
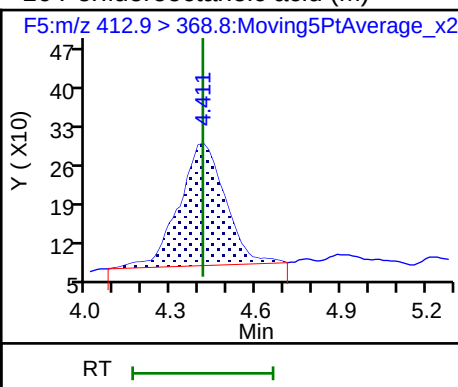
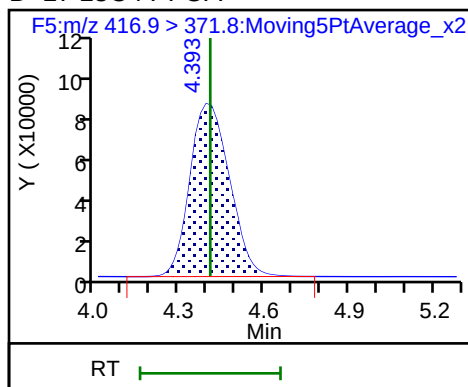
13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid (M)

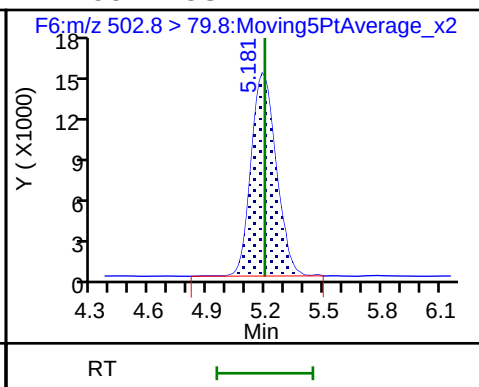
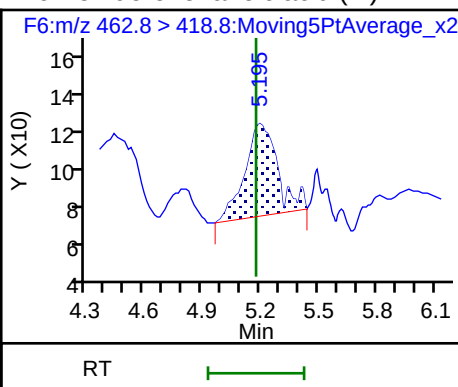
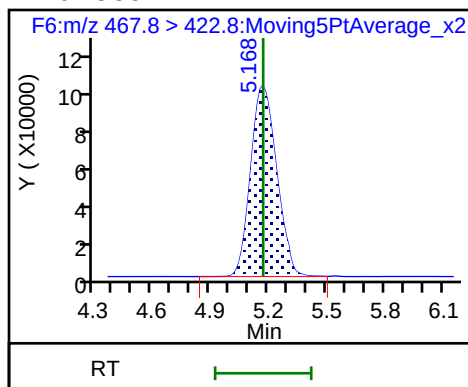
18 Perfluoroheptanesulfonic acid (ND)



D 20 13C5 PFNA

19 Perfluorononanoic acid (M)

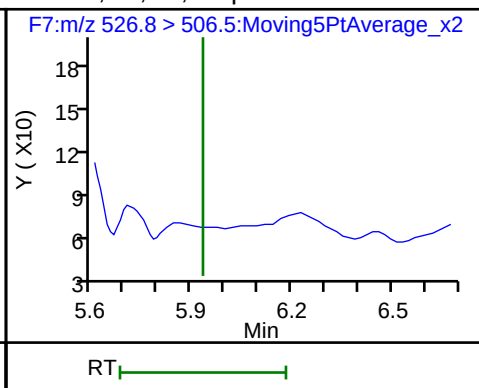
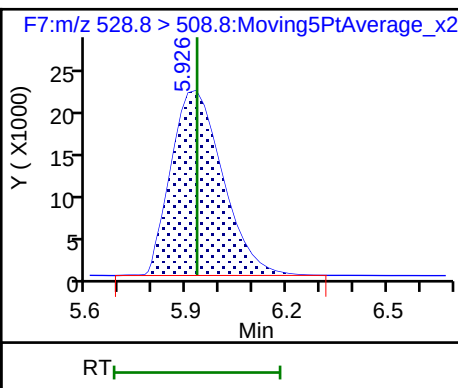
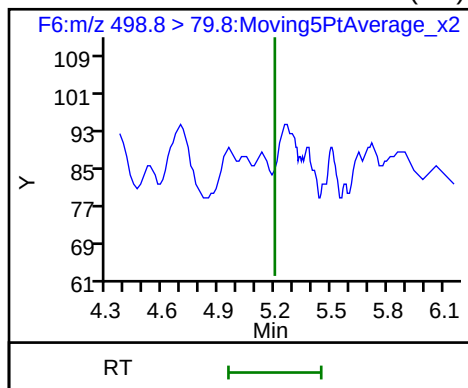
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (ND)

D 24 M2-8:2 FTS

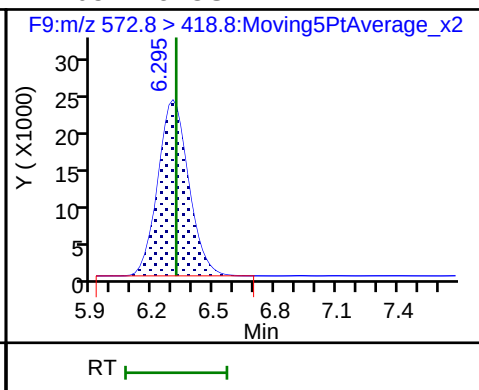
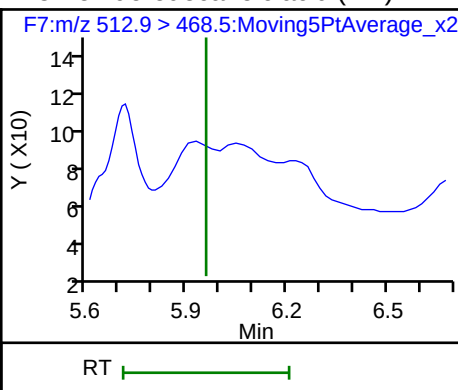
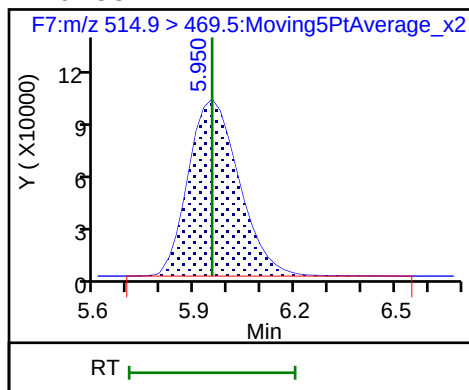
23 1H,1H,2H,2H-perfluorodecanesulfonate (ND)



## D 26 13C2 PFDA

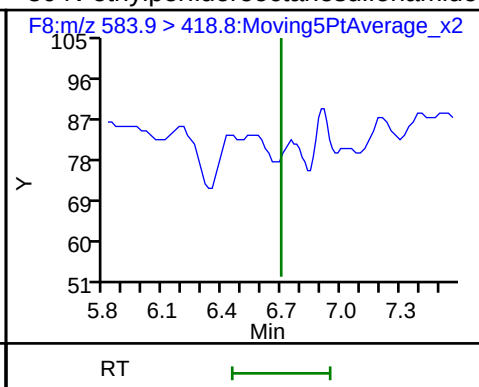
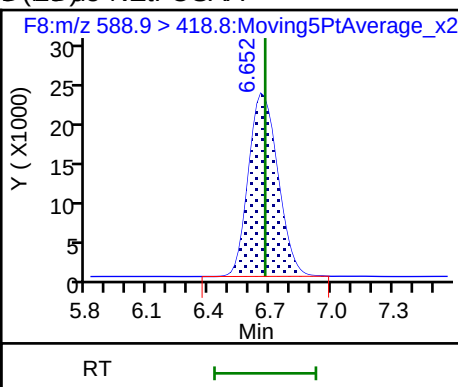
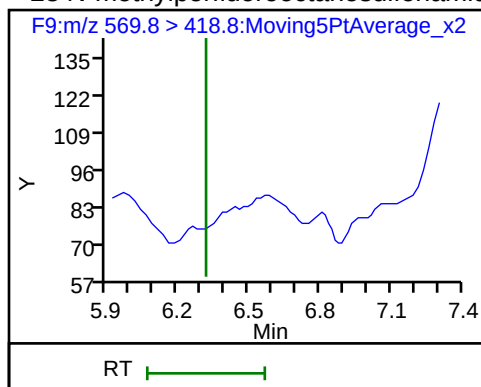
## 25 Perfluorodecanoic acid (ND)

## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamide (ND)

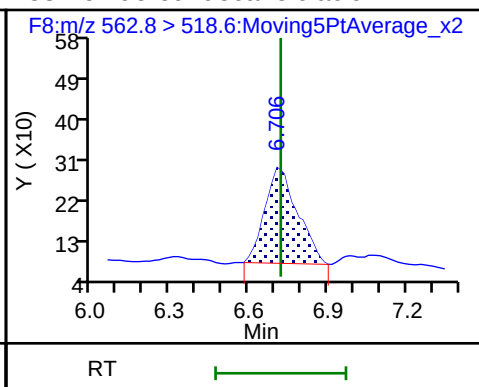
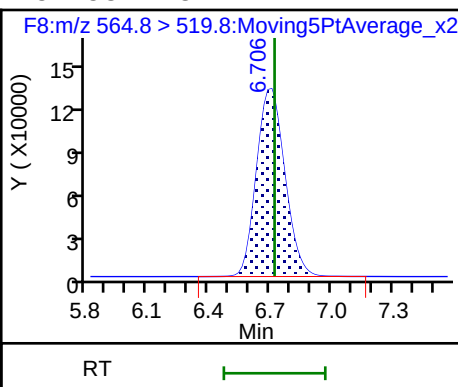
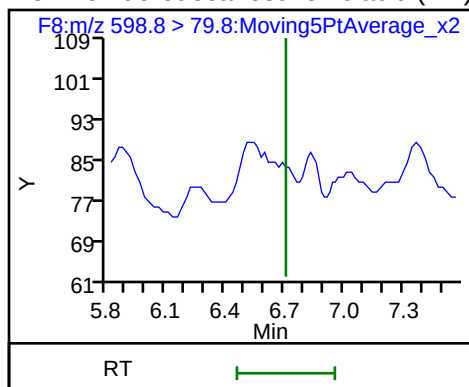
## 30 N-ethylperfluorooctanesulfonamide (ND)



## 31 Perfluorodecanesulfonic acid (ND)

## D 32 13C2 PFUnA

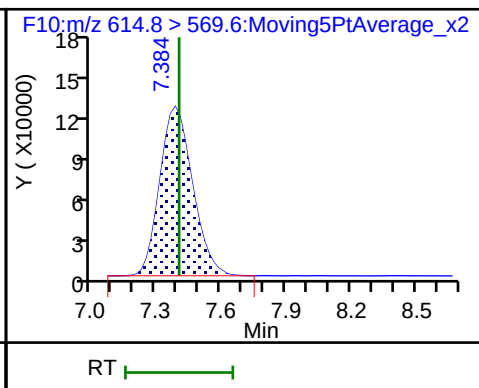
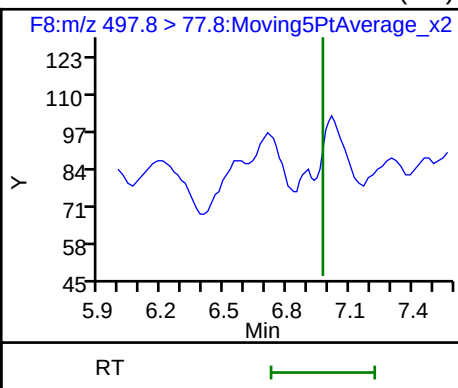
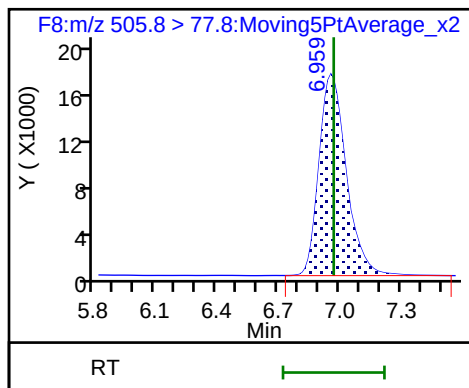
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide (ND)

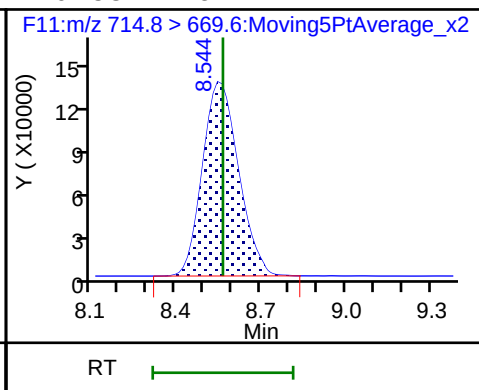
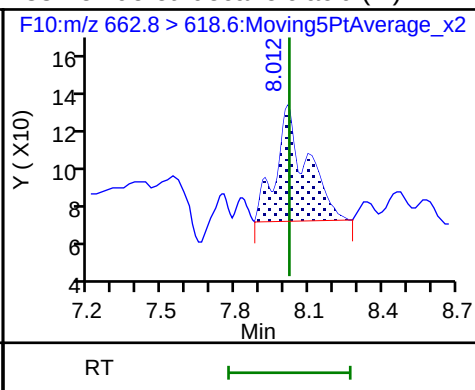
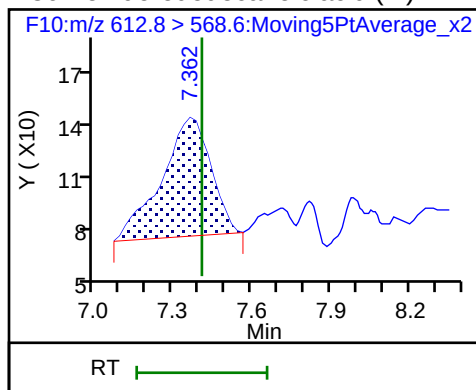
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid (M)

## 38 Perfluorotridecanoic acid (M)

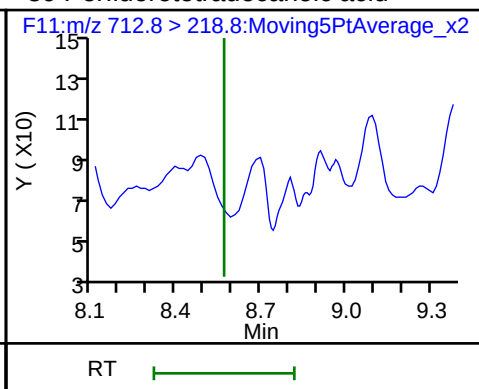
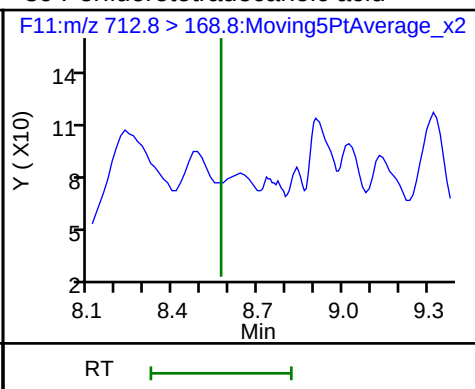
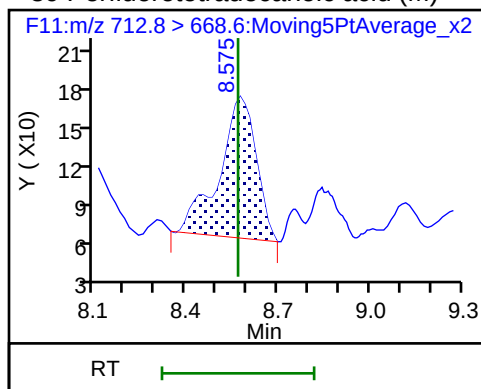
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid (M)

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

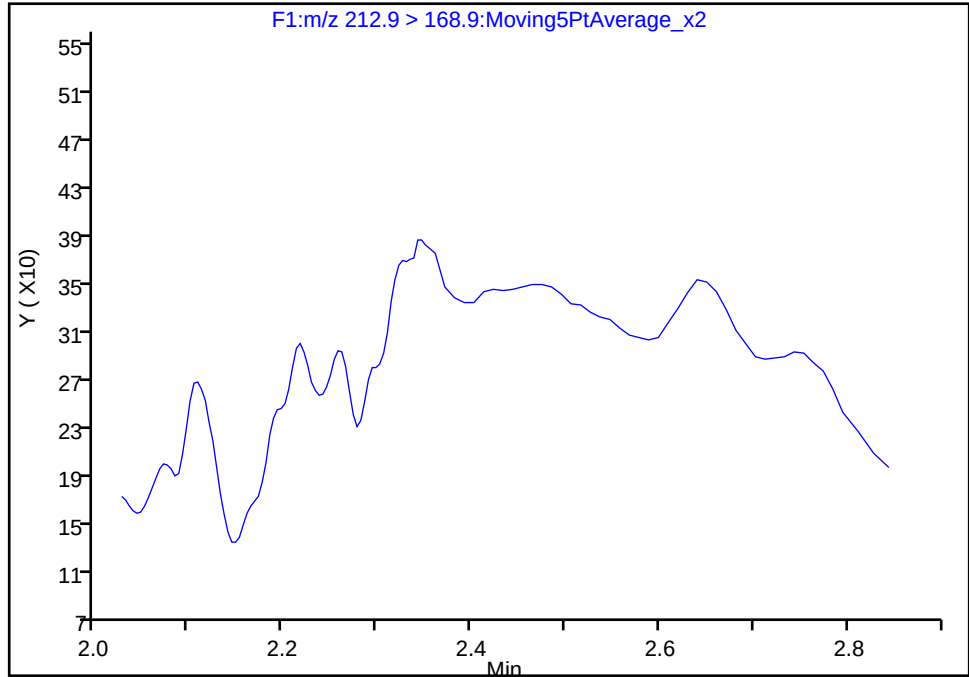
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|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:14:34                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-8-A                                                    | Lab Sample ID: | 200-165769-8 |                |    |
| Client ID:      | EB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 24 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F1:MRM       |                |    |

**2 Perfluorobutanoic acid, CAS: 375-22-4**

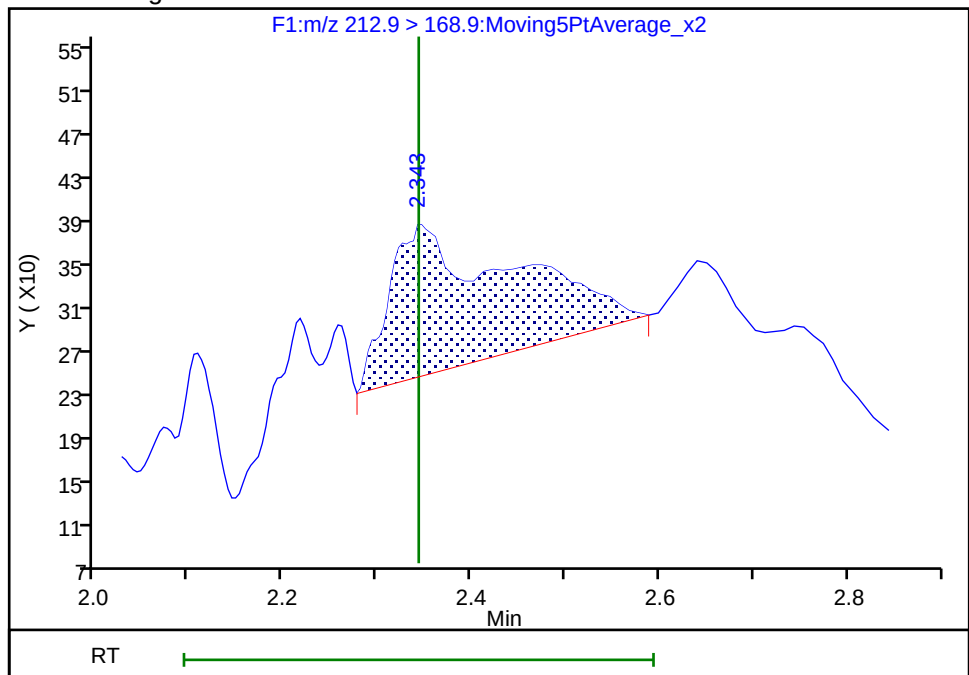
Signal: 1

Not Detected  
Expected RT: 2.34

## Processing Integration Results



## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:48:34  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

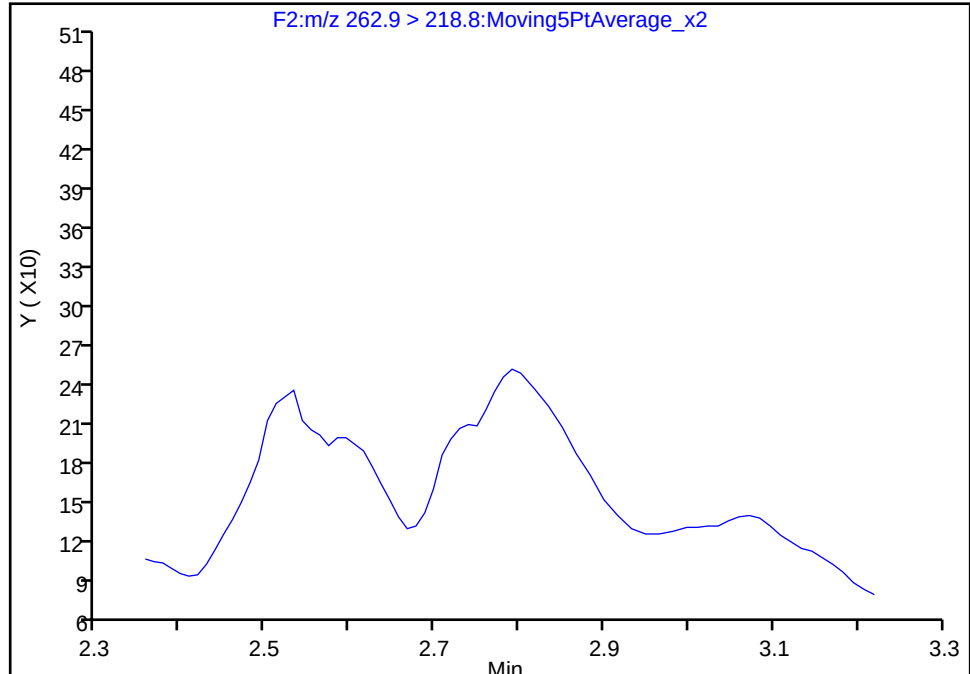
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:14:34                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-8-A                                                    | Lab Sample ID: | 200-165769-8 |                |    |
| Client ID:      | EB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 24 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

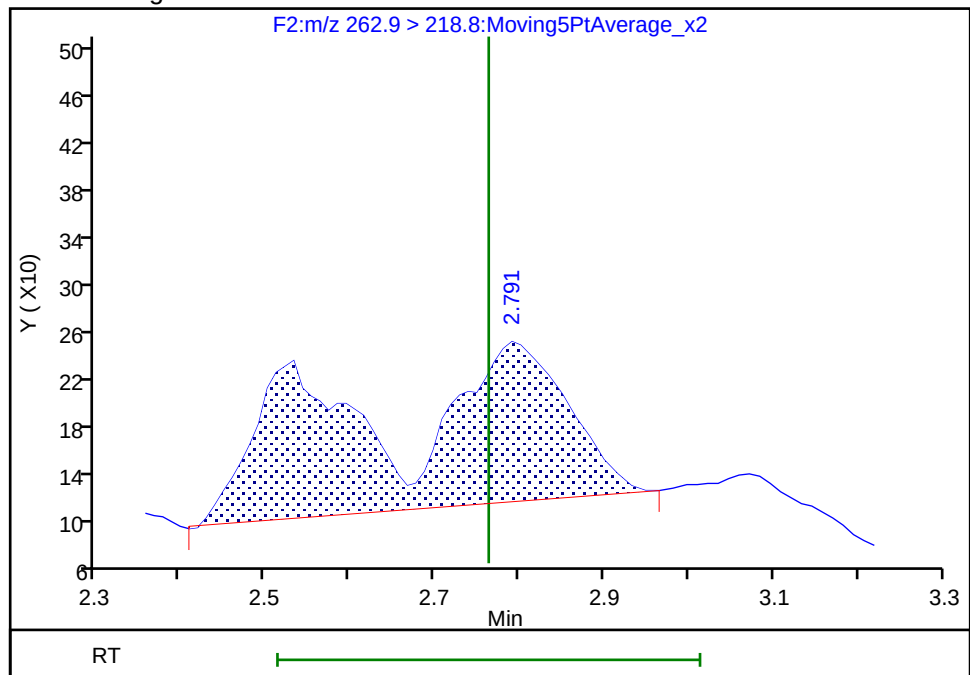
Signal: 1

Not Detected  
Expected RT: 2.76

## Processing Integration Results



## Manual Integration Results

RT: 2.79  
Area: 2298  
Amount: 0.178859  
Amount Units: ng/mlReviewer: chirgwinb, 13-Oct-2018 10:48:02  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

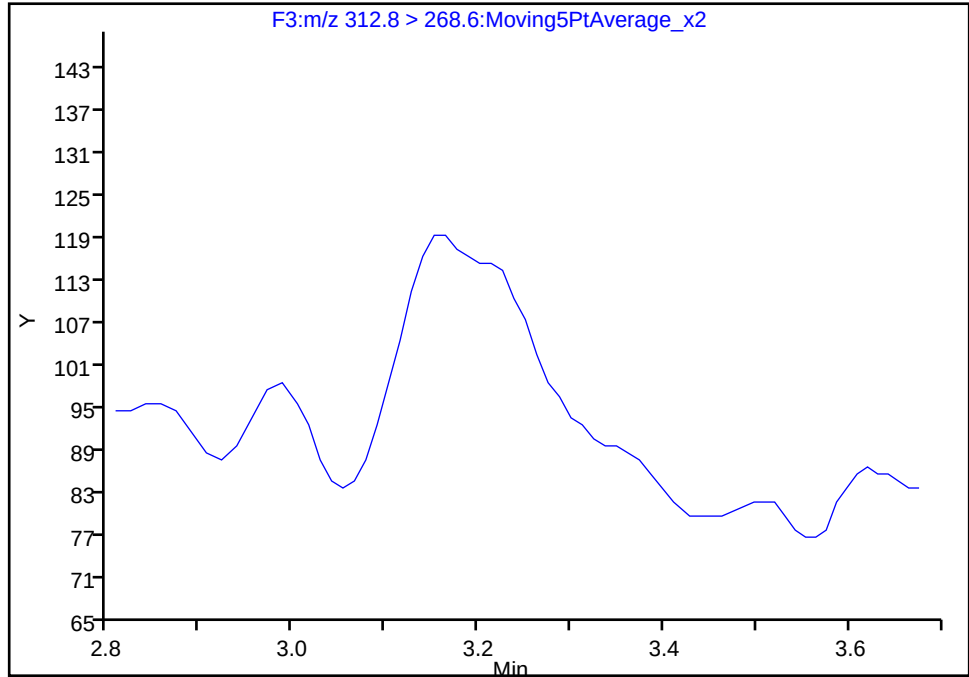
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:14:34                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-8-A                                                    | Lab Sample ID: | 200-165769-8 |                |    |
| Client ID:      | EB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 24 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F3:MRM       |                |    |

**8 Perfluorohexanoic acid, CAS: 307-24-4**

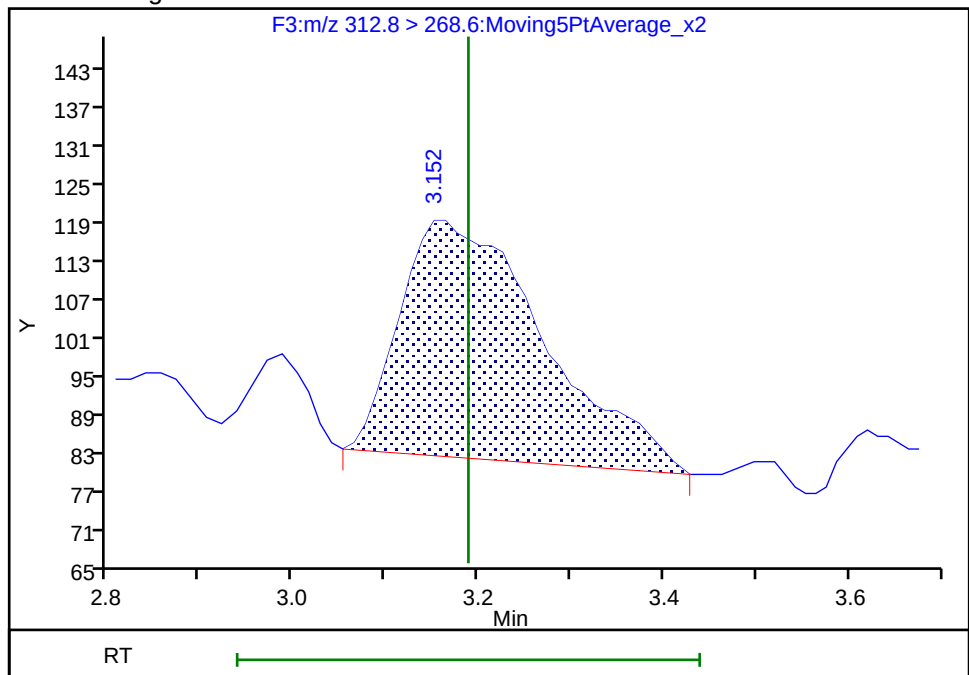
Signal: 1

Not Detected  
Expected RT: 3.19

## Processing Integration Results



## Manual Integration Results

RT: 3.15  
Area: 404  
Amount: 0.061493  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:47:51

Audit Action: Manually Integrated

Audit Reason: Missed Peak



## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d

Injection Date: 12-Oct-2018 22:14:34

Instrument ID: LC410

Lims ID: 460-165769-E-8-A

Lab Sample ID: 200-165769-8

Client ID: EB2 09272018

Operator ID: BC

ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

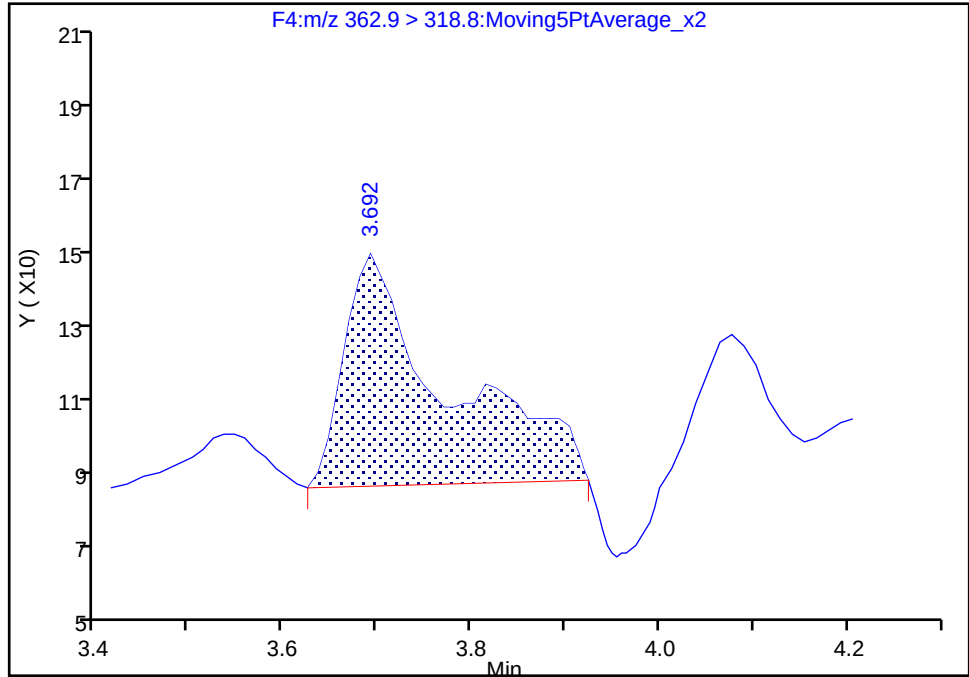
Detector F4:MRM

**10 Perfluoroheptanoic acid, CAS: 375-85-9**

Signal: 1

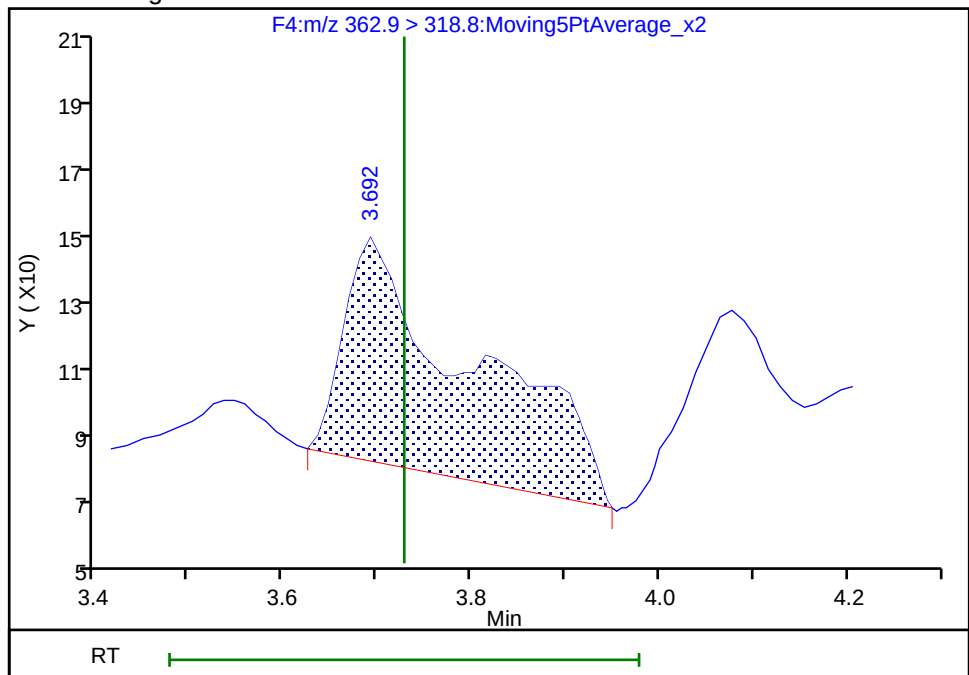
RT: 3.69  
Area: 457  
Amount: 0.024916  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.69  
Area: 628  
Amount: 0.034239  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:41:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

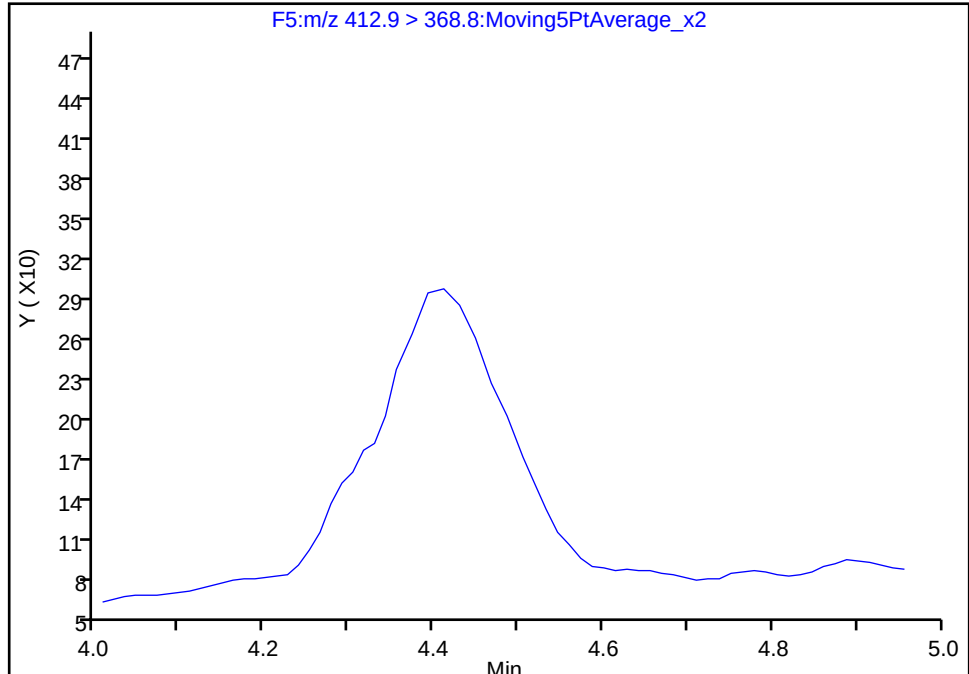
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|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:14:34                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-8-A                                                    | Lab Sample ID: | 200-165769-8 |                |    |
| Client ID:      | EB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 24 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F5:MRM       |                |    |

**16 Perfluorooctanoic acid, CAS: 335-67-1**

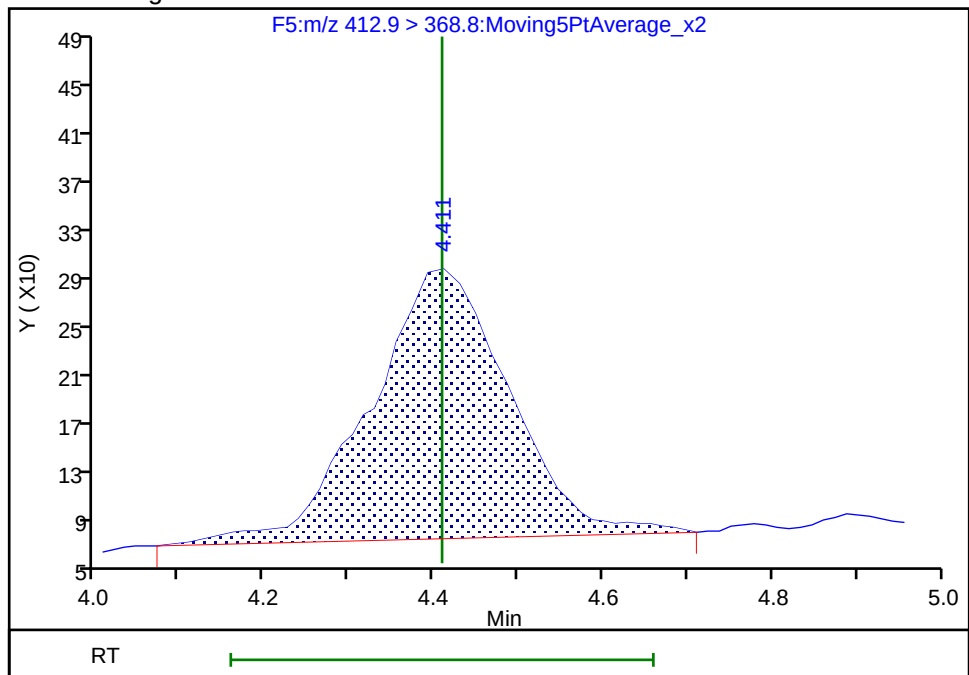
Signal: 1

Not Detected  
Expected RT: 4.41

## Processing Integration Results

RT: 4.41  
Area: 2485  
Amount: 0.152427  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:47:39

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

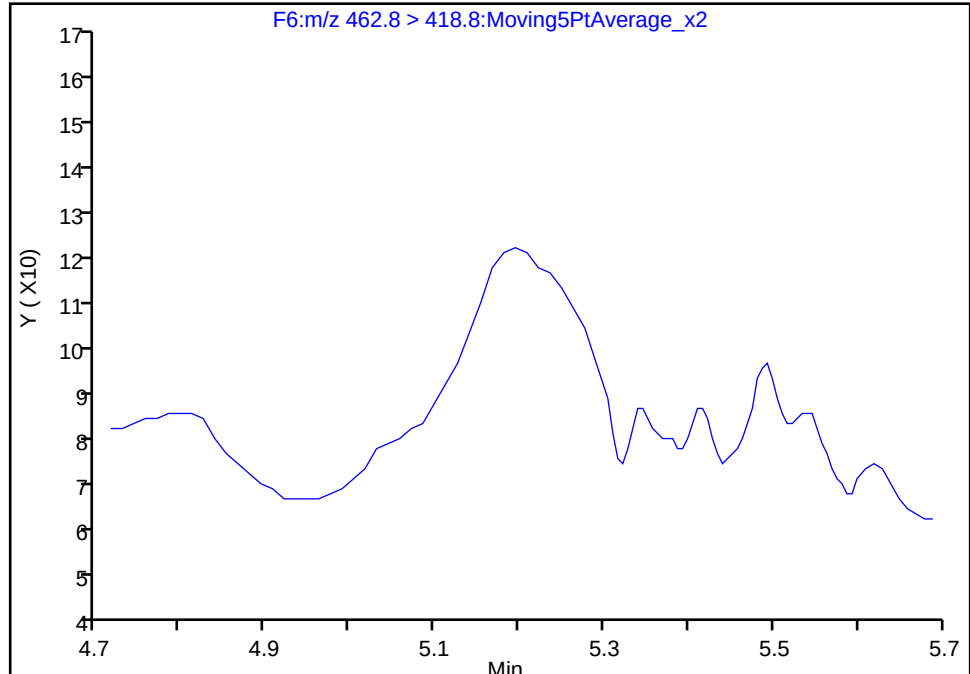
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:14:34                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-8-A                                                    | Lab Sample ID: | 200-165769-8 |                |    |
| Client ID:      | EB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 24 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector:      | F6:MRM       |                |    |

**19 Perfluorononanoic acid, CAS: 375-95-1**

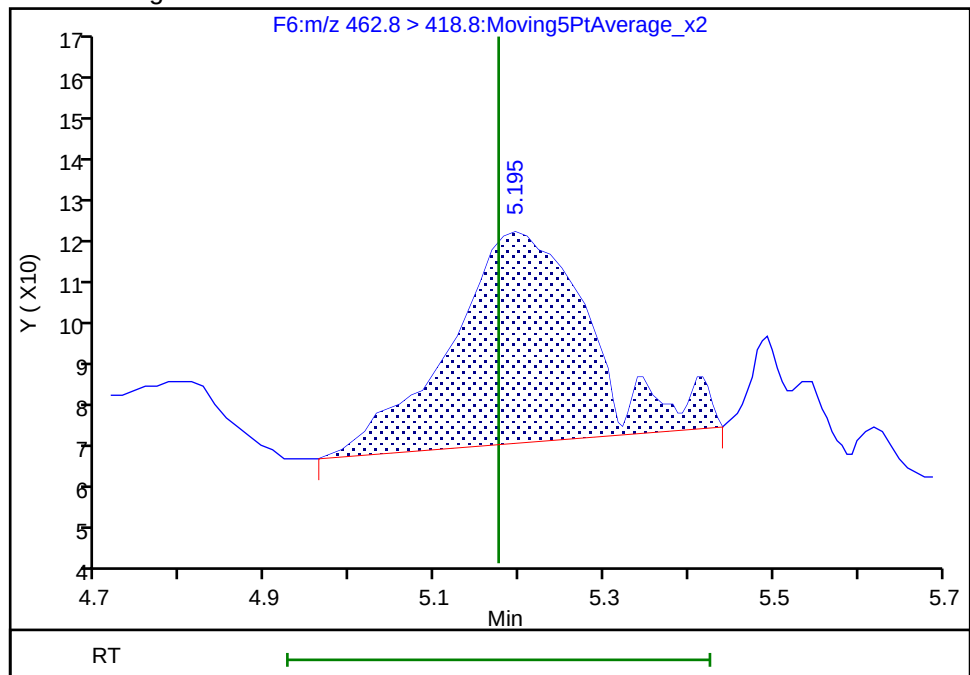
Signal: 1

Not Detected  
Expected RT: 5.18

## Processing Integration Results



## Manual Integration Results

RT: 5.20  
Area: 541  
Amount: -0.490920  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:47:32

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

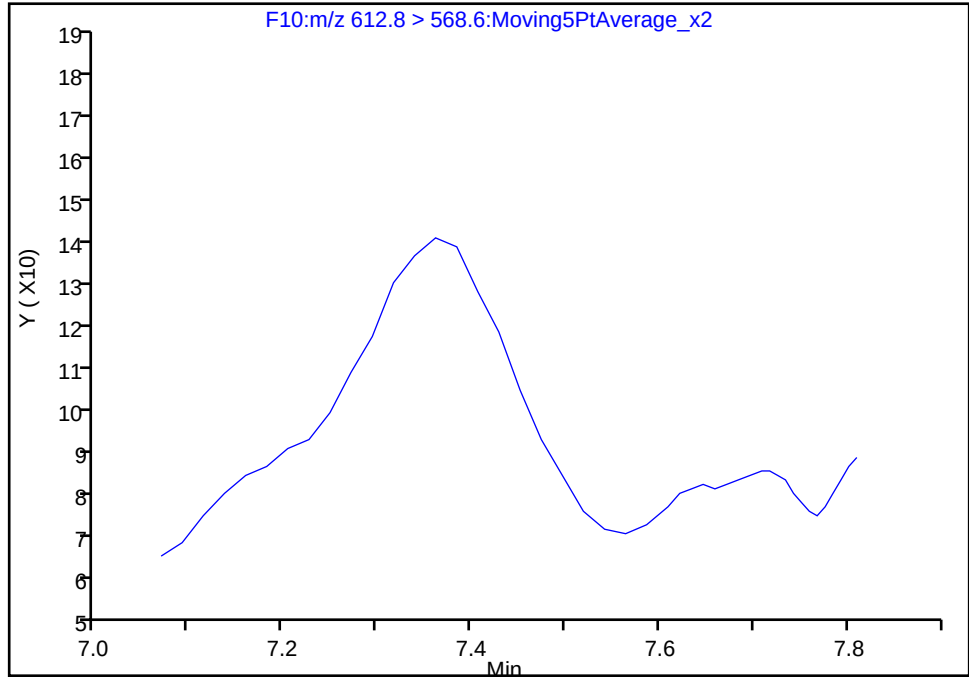
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:14:34                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-8-A                                                    | Lab Sample ID: | 200-165769-8 |                |    |
| Client ID:      | EB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 24 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**36 Perfluorododecanoic acid, CAS: 307-55-1**

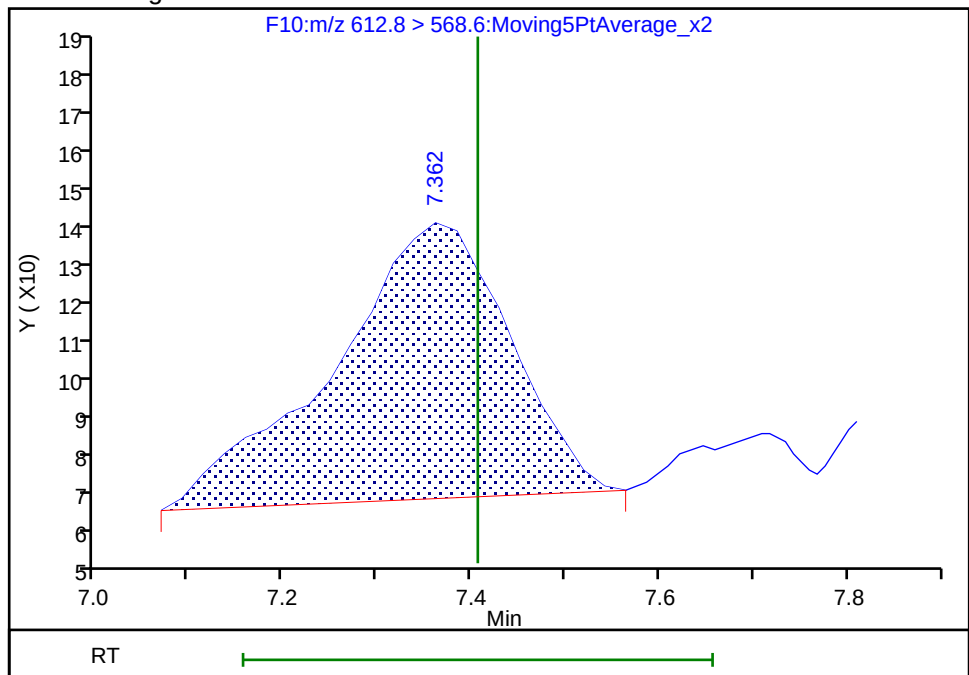
Signal: 1

Not Detected  
Expected RT: 7.41

## Processing Integration Results



## Manual Integration Results

RT: 7.36  
Area: 887  
Amount: 0.040051  
Amount Units: ng/mlReviewer: chirgwinb, 13-Oct-2018 10:47:16  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

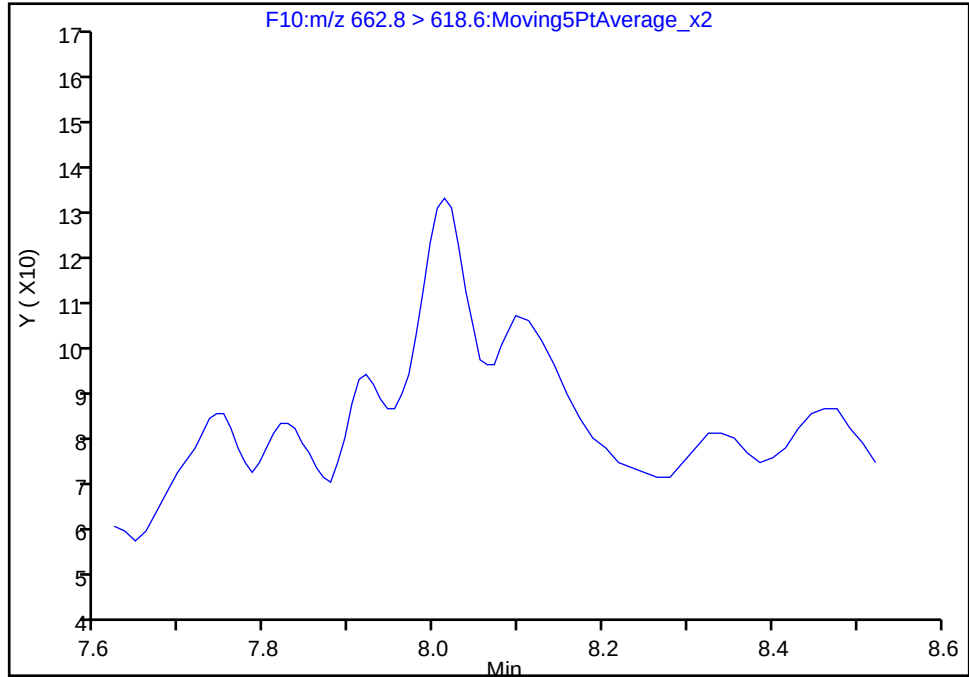
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:14:34                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-8-A                                                    | Lab Sample ID: | 200-165769-8 |                |    |
| Client ID:      | EB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 24 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

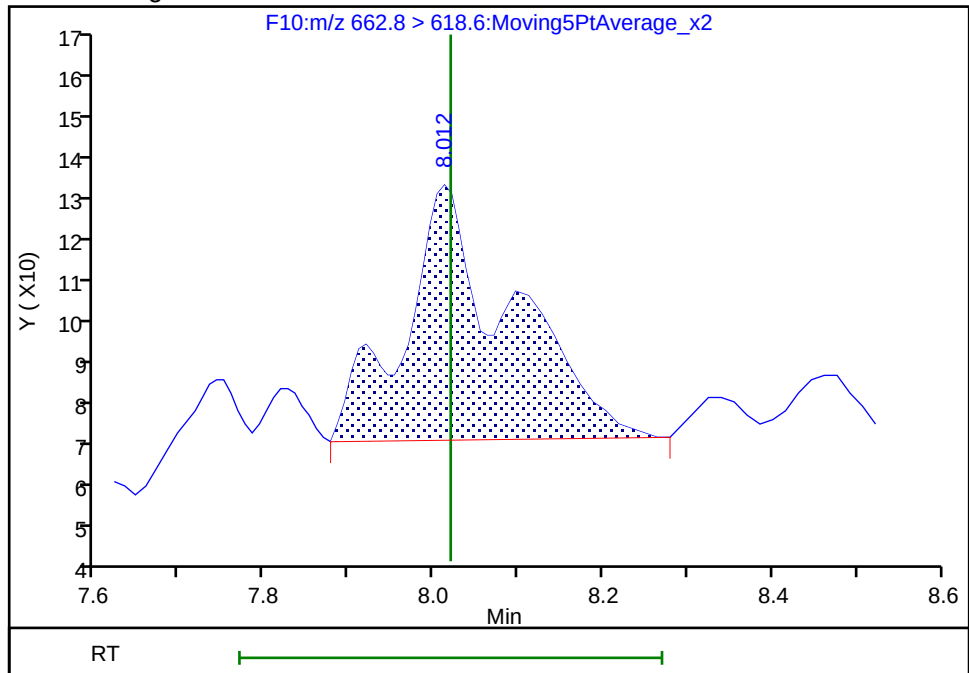
Signal: 1

Not Detected  
Expected RT: 8.02

## Processing Integration Results



## Manual Integration Results

RT: 8.01  
Area: 505  
Amount: 0.022378  
Amount Units: ng/mlReviewer: chirgwinb, 13-Oct-2018 10:47:11  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

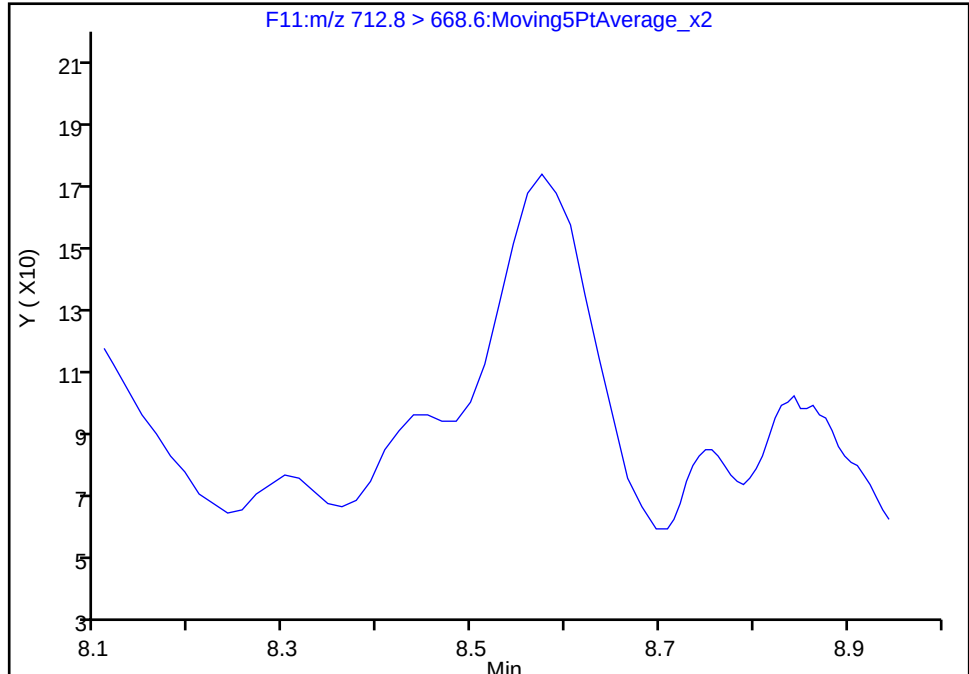
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:14:34                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-8-A                                                    | Lab Sample ID: | 200-165769-8 |                |    |
| Client ID:      | EB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 24 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F11:MRM      |                |    |

**39 Perfluorotetradecanoic acid, CAS: 376-06-7**

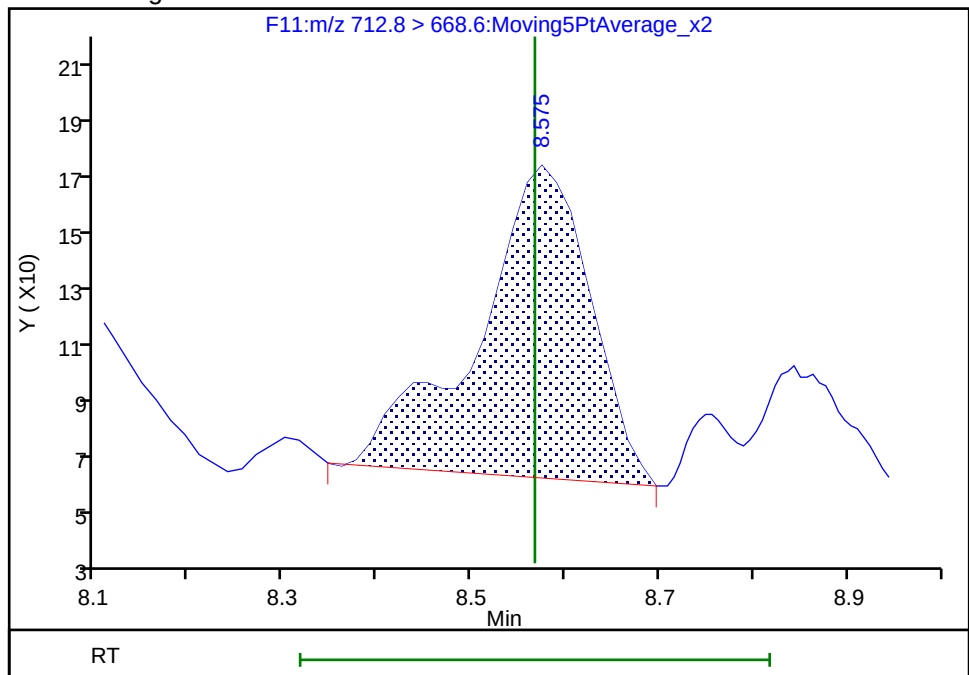
Signal: 1

Not Detected  
Expected RT: 8.57

## Processing Integration Results



## Manual Integration Results

RT: 8.57  
Area: 910  
Amount: 0.038376  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:47:04

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

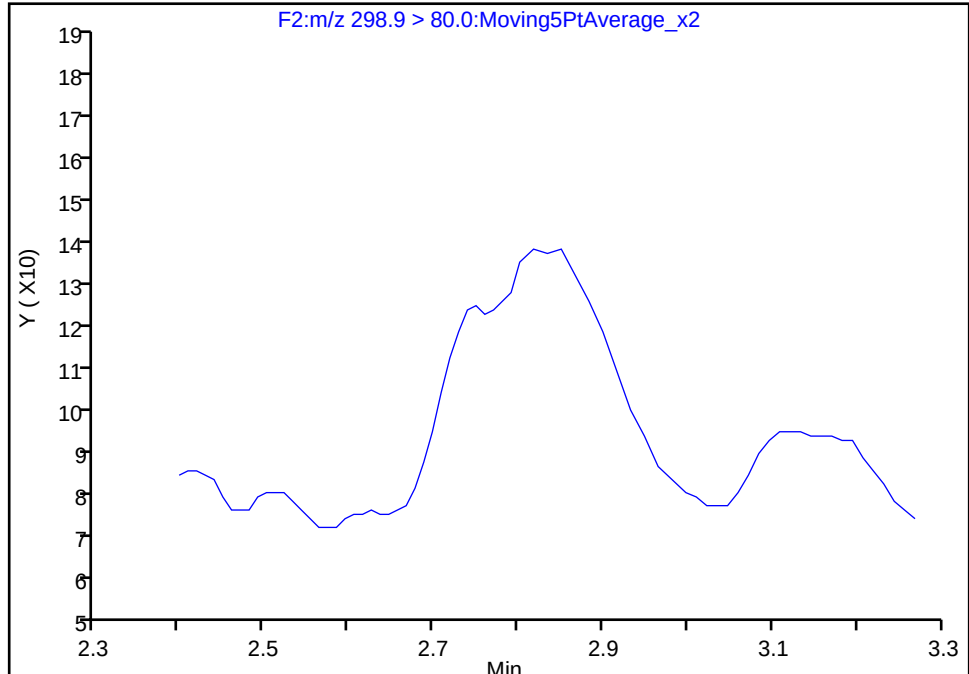
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:14:34                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-E-8-A                                                    | Lab Sample ID: | 200-165769-8 |                |    |
| Client ID:      | EB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 24 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector:      | F2:MRM       |                |    |

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

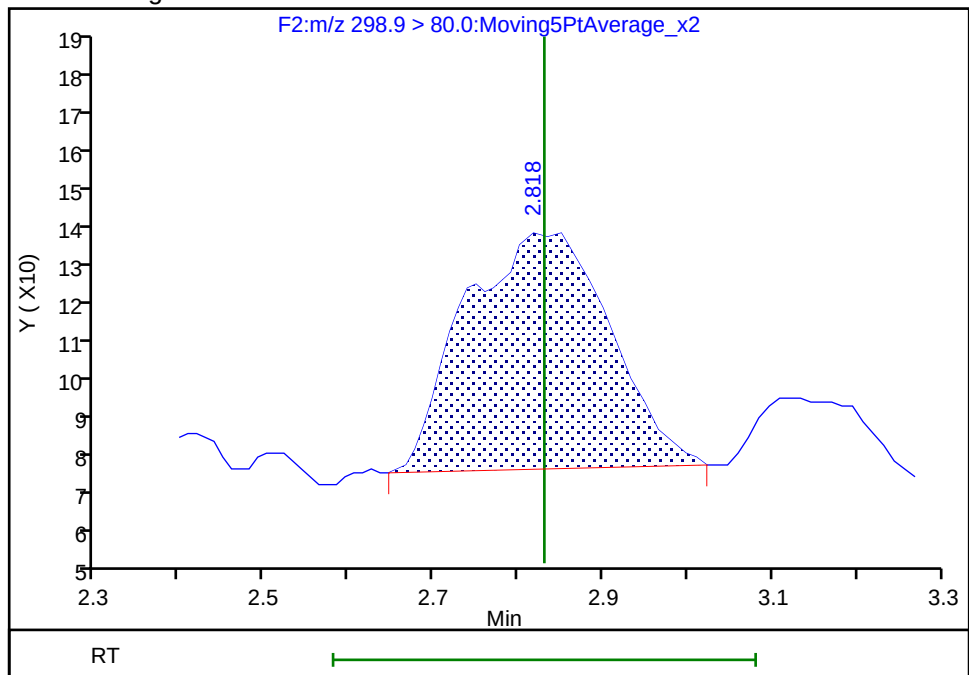
Signal: 1

Not Detected  
Expected RT: 2.83

## Processing Integration Results



## Manual Integration Results

RT: 2.82  
Area: 715  
Amount: 0.112113  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:47:56

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

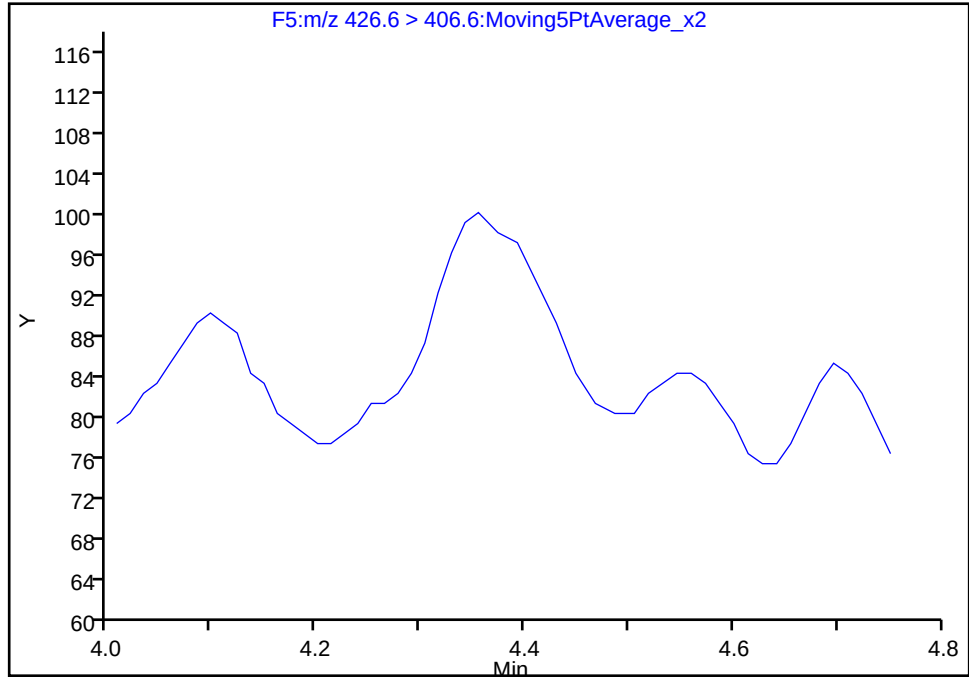
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d  
Injection Date: 12-Oct-2018 22:14:34 Instrument ID: LC410  
Lims ID: 460-165769-E-8-A Lab Sample ID: 200-165769-8  
Client ID: EB2 09272018  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F5:MRM

**14 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:, CAS: 27619-97-2**

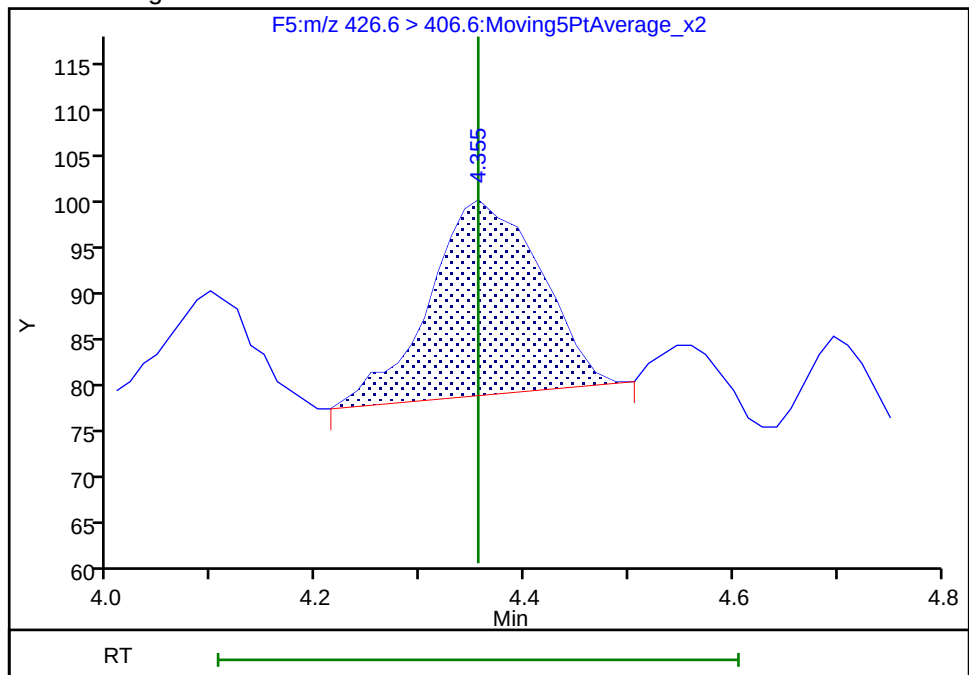
Signal: 1

Not Detected  
Expected RT: 4.36

## Processing Integration Results



## Manual Integration Results



RT: 4.36  
Area: 159  
Amount: 0.239517  
Amount Units: ng/ml



## TestAmerica Burlington

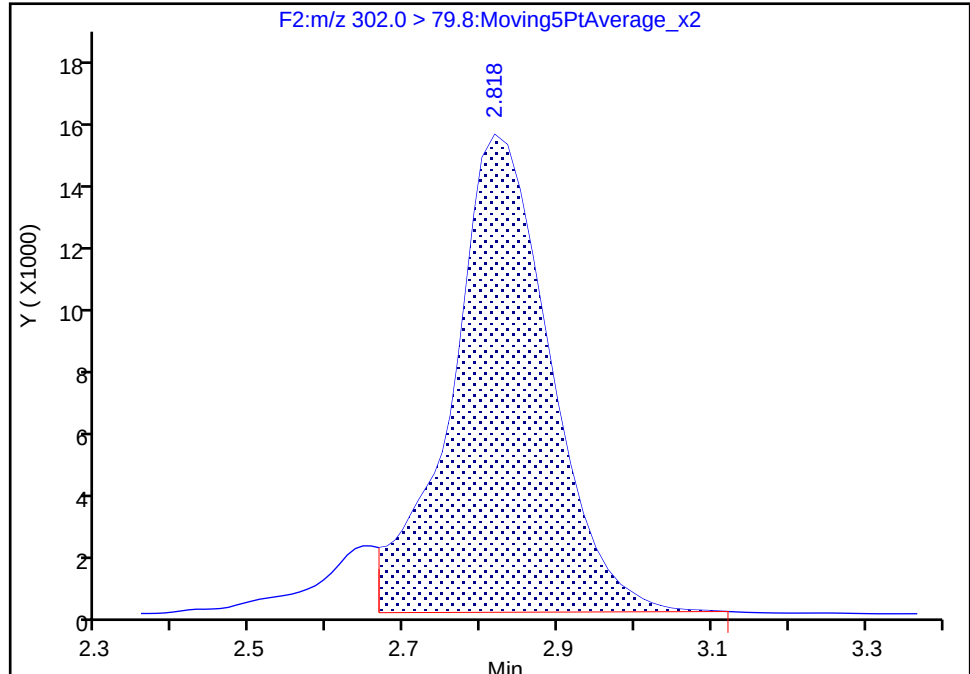
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A24.d  
Injection Date: 12-Oct-2018 22:14:34 Instrument ID: LC410  
Lims ID: 460-165769-E-8-A Lab Sample ID: 200-165769-8  
Client ID: EB2 09272018  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

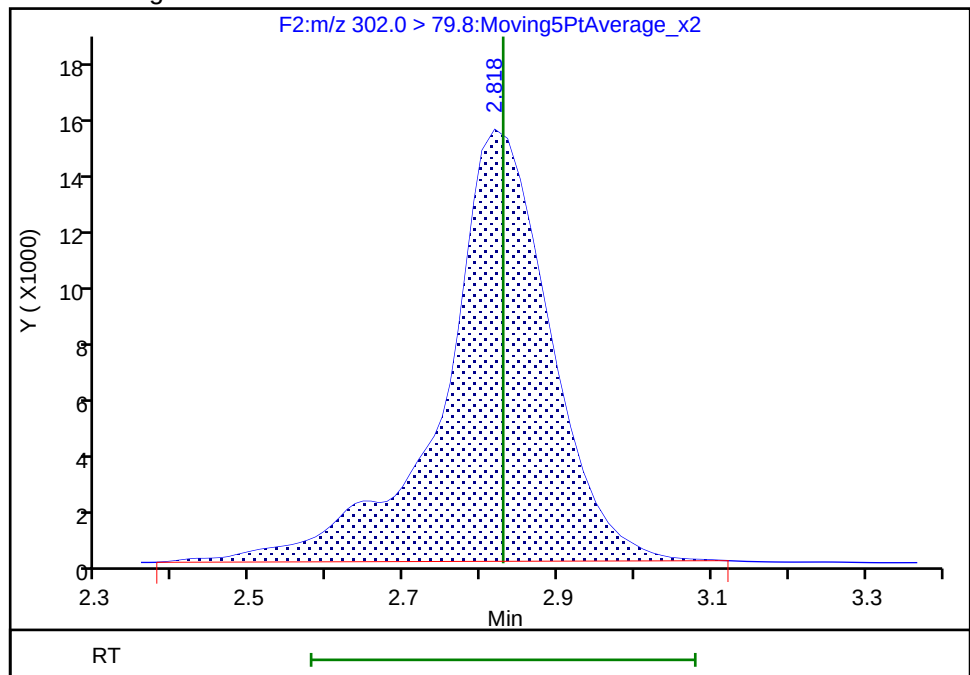
RT: 2.82  
Area: 133741  
Amount: 39.763491  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.82  
Area: 145854  
Amount: 43.364894  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:41:44  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: <u>FB2 09272018</u>   | Lab Sample ID: <u>460-165769-9</u>         |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A25.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/27/2018 13:00</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>273.3 (mL)</u>        | Date Analyzed: <u>10/12/2018 22:30</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q | RL   | MDL  |
|------------|----------------------------------------------------------|--------|---|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 0.38   | U | 1.83 | 0.38 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 0.69   | U | 1.83 | 0.69 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 0.22   | U | 1.83 | 0.22 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 0.29   | U | 1.83 | 0.29 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 0.29   | U | 1.83 | 0.29 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 0.35   | U | 1.83 | 0.35 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 0.35   | U | 1.83 | 0.35 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 0.23   | U | 1.83 | 0.23 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 0.32   | U | 1.83 | 0.32 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 0.22   | U | 1.83 | 0.22 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 0.41   | U | 1.83 | 0.41 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 0.40   | U | 1.83 | 0.40 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 0.24   | U | 1.83 | 0.24 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.75   | U | 1.83 | 0.75 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 0.70   | U | 1.83 | 0.70 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 0.48   | U | 1.83 | 0.48 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 0.51   | U | 1.83 | 0.51 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.41   | U | 18.3 | 0.41 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.64   | U | 18.3 | 0.64 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 0.91   | U | 18.3 | 0.91 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.51   | U | 18.3 | 0.51 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: <u>FB2 09272018</u>   | Lab Sample ID: <u>460-165769-9</u>         |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A25.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/27/2018 13:00</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>273.3 (mL)</u>        | Date Analyzed: <u>10/12/2018 22:30</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 76   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 90   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 94   |   | 25-150 |
| STL00991 | 13C4 PFOS        | 77   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 88   |   | 25-150 |
| STL00992 | 13C4 PFBA        | 75   |   | 25-150 |
| STL00993 | 13C2 PFHxA       | 83   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 83   |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 92   |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 84   |   | 25-150 |
| STL01056 | 13C8 FOSA        | 45   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 77   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 85   |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 73   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 80   |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 94   |   | 25-150 |
| STL02280 | M2-8:2 FTS       | 93   |   | 25-150 |
| STL02337 | 13C3 PFBS        | 85   |   | 25-150 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d  
 Lims ID: 460-165769-D-9-A  
 Client ID: FB2 09272018  
 Sample Type: Client  
 Inject. Date: 12-Oct-2018 22:30:32 ALS Bottle#: 0 Worklist Smp#: 25  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-025 9  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:43:45 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
 Column 1 : Det: F1:MRM  
 Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:50:49

| Signal                          | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                   |       |        |        |        |          |              |               |      |      |       |
| 216.9 > 171.5                   | 2.343 | 2.326  | 0.017  | 1.000  | 363719   | 37.6         |               | 75.2 | 314  |       |
| 2 Perfluorobutanoic acid        |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                   | 2.270 | 2.344  | -0.074 | 0.969  | 742      | 0.1065       |               |      | 1.7  | M     |
| D 3 13C5 PFPeA                  |       |        |        |        |          |              |               |      |      | M     |
| 267.7 > 222.6                   | 2.760 | 2.763  | -0.003 | 1.000  | 89385    | 38.5         |               | 77.0 | 357  | M     |
| 4 Perfluoropentanoic acid       |       |        |        |        |          |              |               |      |      | M     |
| 262.9 > 218.8                   | 2.781 | 2.763  | 0.018  | 1.007  | 2024     | 0.1672       |               |      | 5.2  | M     |
| D 6 13C3 PFBS                   |       |        |        |        |          |              |               |      |      |       |
| 302.0 > 79.8                    | 2.818 | 2.829  | -0.011 | 1.000  | 134752   | 39.7         |               | 85.3 | 174  |       |
| D 7 13C2 PFHxA                  |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                   | 3.177 | 3.188  | -0.011 | 1.000  | 294245   | 41.6         |               | 83.2 | 1624 |       |
| 8 Perfluorohexanoic acid        |       |        |        |        |          |              |               |      |      | M     |
| 312.8 > 268.6                   | 3.201 | 3.189  | 0.012  | 1.008  | 553      | 0.0884       |               |      | 6.6  | M     |
| D 9 13C4 PFHpA                  |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                   | 3.726 | 3.725  | 0.001  | 1.000  | 928336   | 44.8         |               | 89.7 | 1211 |       |
| 10 Perfluoroheptanoic acid      |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                   | 3.692 | 3.728  | -0.036 | 0.991  | 1162     | 0.0623       |               |      | 5.5  |       |
| 12 Perfluorohexanesulfonic acid |       |        |        |        |          |              |               |      |      | M     |
| 399.0 > 80.0                    | 3.804 | 3.769  | 0.035  | 1.012  | 720      | 0.1247       |               |      | 8.7  | M     |
| D 11 18O2 PFHxS                 |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                    | 3.759 | 3.770  | -0.011 | 1.000  | 146334   | 35.7         |               | 75.6 | 655  |       |
| D 13 M2-6:2 FTS                 |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                   | 4.342 | 4.353  | -0.011 | 1.000  | 33309    | 44.6         |               | 93.8 | 194  |       |
| * 15 13C2 PFOA                  |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                   | 4.393 | 4.401  | -0.008 |        | 897571   | 50.0         |               |      | 4426 |       |
| D 17 13C4 PFOA                  |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                   | 4.393 | 4.407  | -0.014 | 1.000  | 779522   | 46.9         |               | 93.8 | 2611 |       |

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| 16 Perfluorooctanoic acid             |       |           |           |           |          |                 |                 |      |      | M     |
| 412.9 > 368.8                         | 4.393 | 4.409     | -0.016    | 1.000     | 1601     | 0.0981          |                 |      | 18.2 | M     |
| D 20 13C5 PFNA                        |       |           |           |           |          |                 |                 |      |      |       |
| 467.8 > 422.8                         | 5.168 | 5.171     | -0.003    | 1.000     | 934500   | 44.0            |                 | 87.9 | 2425 |       |
| D 22 13C4 PFOS                        |       |           |           |           |          |                 |                 |      |      |       |
| 502.8 > 79.8                          | 5.181 | 5.195     | -0.014    | 1.000     | 126811   | 36.9            |                 | 77.3 | 440  |       |
| 21 Perfluorooctanesulfonic acid       |       |           |           |           |          |                 |                 |      |      | M     |
| 498.8 > 79.8                          | 5.195 | 5.197     | -0.002    | 1.003     | 192      | 0.0701          |                 |      | 1.5  | M     |
| D 24 M2-8:2 FTS                       |       |           |           |           |          |                 |                 |      |      |       |
| 528.8 > 508.8                         | 5.926 | 5.929     | -0.003    | 1.000     | 250627   | 44.6            |                 | 93.1 | 786  |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |           |           |           |          |                 |                 |      |      | M     |
| 526.8 > 506.5                         | 5.803 | 5.932     | -0.129    | 0.979     | 163      | 0.0433          |                 |      | 3.8  | M     |
| D 26 13C2 PFDA                        |       |           |           |           |          |                 |                 |      |      |       |
| 514.9 > 469.5                         | 5.950 | 5.950     | 0.0       | 1.000     | 969828   | 41.6            |                 | 83.2 | 996  |       |
| 25 Perfluorodecanoic acid             |       |           |           |           |          |                 |                 |      |      | M     |
| 512.9 > 468.5                         | 5.926 | 5.956     | -0.030    | 0.996     | 250      | 0.0374          |                 |      | 0.9  | M     |
| D 27 d3-NMeFOSAA                      |       |           |           |           |          |                 |                 |      |      |       |
| 572.8 > 418.8                         | 6.313 | 6.311     | 0.002     | 1.000     | 240710   | 36.7            |                 | 73.4 | 773  |       |
| D 29 d5-NEtFOSAA                      |       |           |           |           |          |                 |                 |      |      |       |
| 588.9 > 418.8                         | 6.670 | 6.674     | -0.004    | 1.000     | 227267   | 39.9            |                 | 79.8 | 1428 |       |
| D 32 13C2 PFUnA                       |       |           |           |           |          |                 |                 |      |      |       |
| 564.8 > 519.8                         | 6.720 | 6.720     | 0.0       | 1.000     | 1234161  | 46.2            |                 | 92.4 | 2330 |       |
| 33 Perfluoroundecanoic acid           |       |           |           |           |          |                 |                 |      |      | M     |
| 562.8 > 518.6                         | 6.720 | 6.720     | 0.0       | 1.000     | 2250     | 0.1029          |                 |      | 13.1 | M     |
| D 35 13C8 FOSA                        |       |           |           |           |          |                 |                 |      |      |       |
| 505.8 > 77.8                          | 6.973 | 6.973     | 0.0       | 1.000     | 137595   | 22.6            |                 | 45.2 | 577  |       |
| D 37 13C2 PFDaA                       |       |           |           |           |          |                 |                 |      |      |       |
| 614.8 > 569.6                         | 7.384 | 7.402     | -0.018    | 1.000     | 1222563  | 41.8            |                 | 83.6 | 4669 |       |
| 36 Perfluorododecanoic acid           |       |           |           |           |          |                 |                 |      |      | M     |
| 612.8 > 568.6                         | 7.429 | 7.407     | 0.022     | 1.006     | 460      | 0.0218          |                 |      | 2.0  | M     |
| 38 Perfluorotridecanoic acid          |       |           |           |           |          |                 |                 |      |      | M     |
| 662.8 > 618.6                         | 7.987 | 8.020     | -0.033    | 0.935     | 563      | 0.0249          |                 |      | 3.7  | M     |
| D 40 13C2 PFTeDA                      |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                         | 8.544 | 8.563     | -0.019    | 1.000     | 1215325  | 42.7            |                 | 85.5 | 1053 |       |
| 39 Perfluorotetradecanoic acid        |       |           |           |           |          |                 |                 |      |      | M     |
| 712.8 > 668.6                         | 8.514 | 8.567     | -0.053    | 0.996     | 975      | 0.0410          |                 |      | 5.0  | M     |
| 712.8 > 168.8                         | 8.560 | 8.567     | -0.007    | 0.000     | 0        |                 | 0.00(0.00-0.00) |      |      |       |
| 712.8 > 218.8                         | 8.560 | 8.567     | -0.007    | 0.000     | 0        |                 | 0.00(0.00-0.00) |      |      |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A25.d

Injection Date: 12-Oct-2018 22:30:32

Instrument ID: LC410

Lims ID: 460-165769-D-9-A

Lab Sample ID: 200-165769-9

Client ID: FB2 09272018

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 25

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

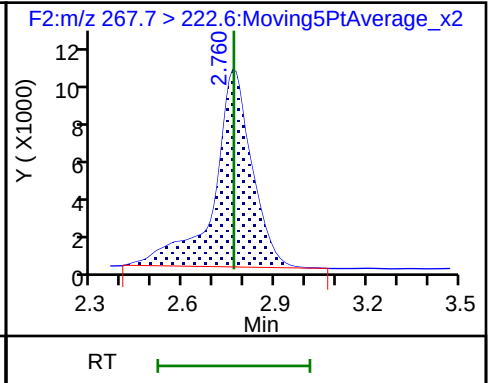
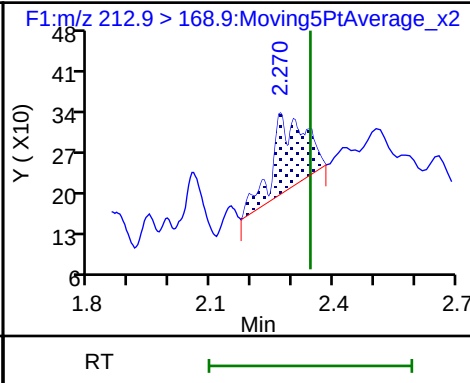
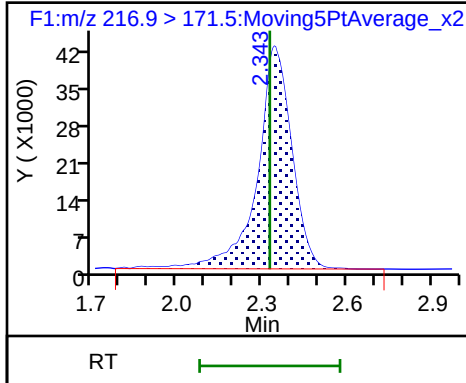
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

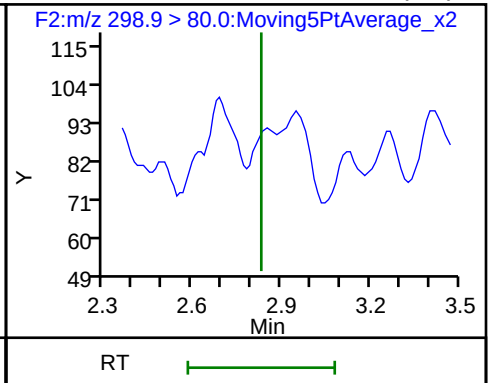
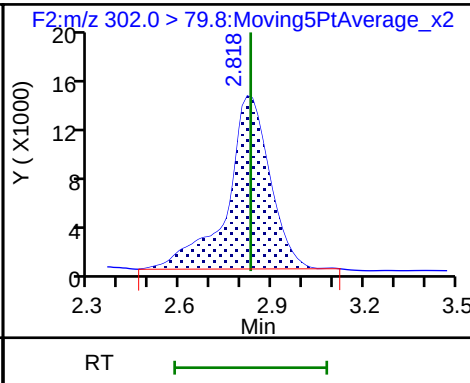
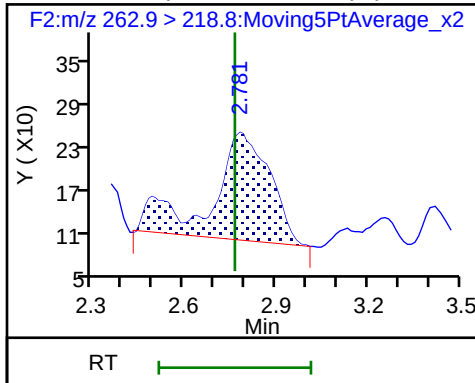
D 3 13C5 PFPeA (M)



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS

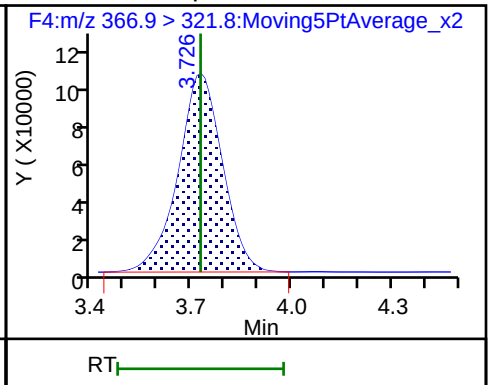
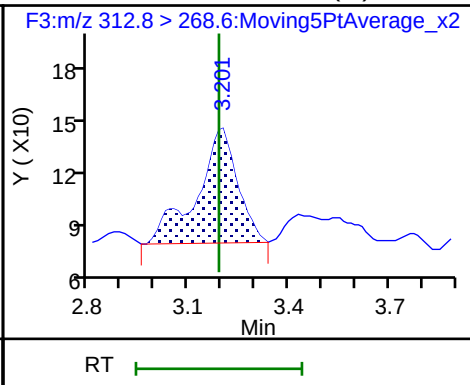
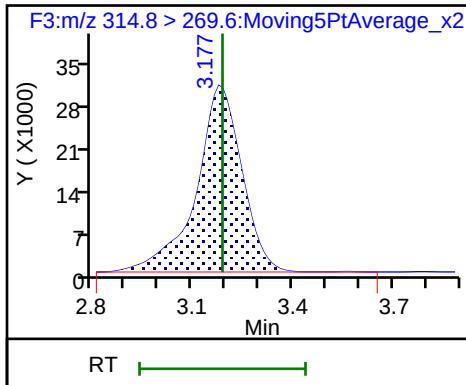
5 Perfluorobutanesulfonic acid (ND)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid (M)

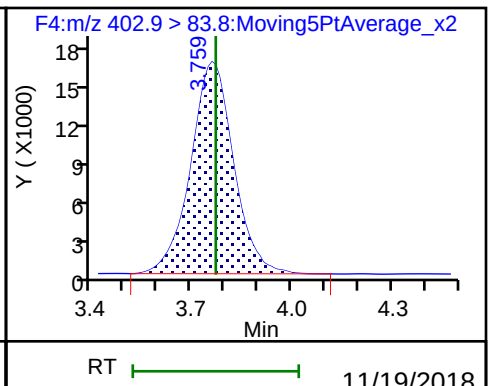
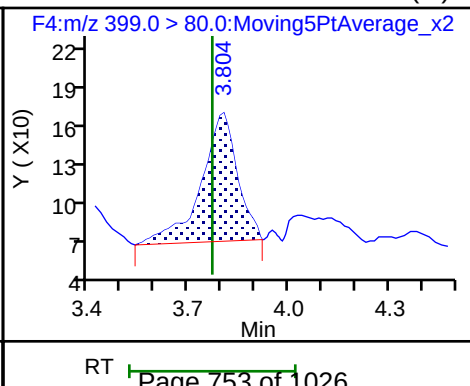
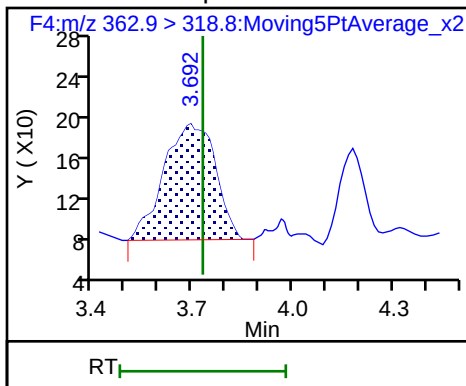
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid (M)

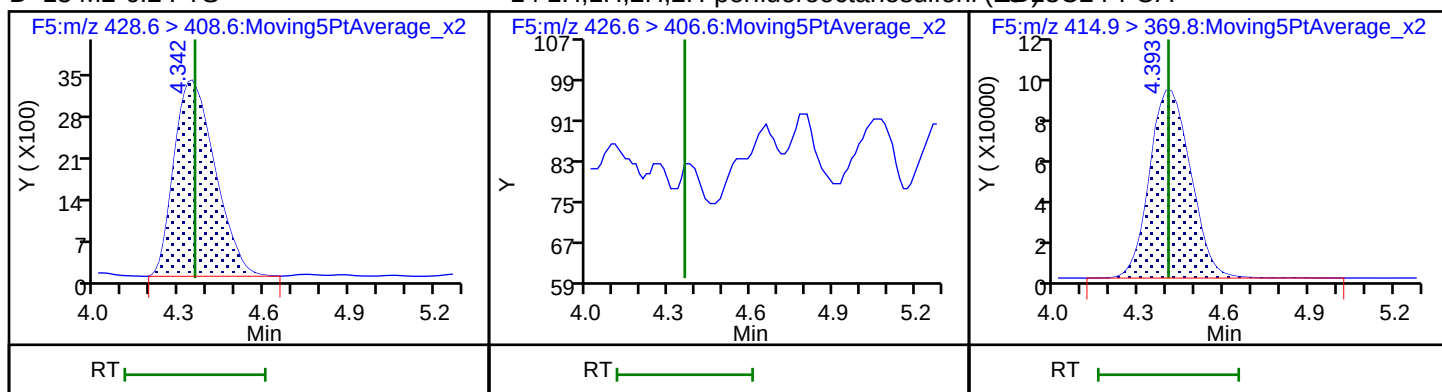
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate (M)

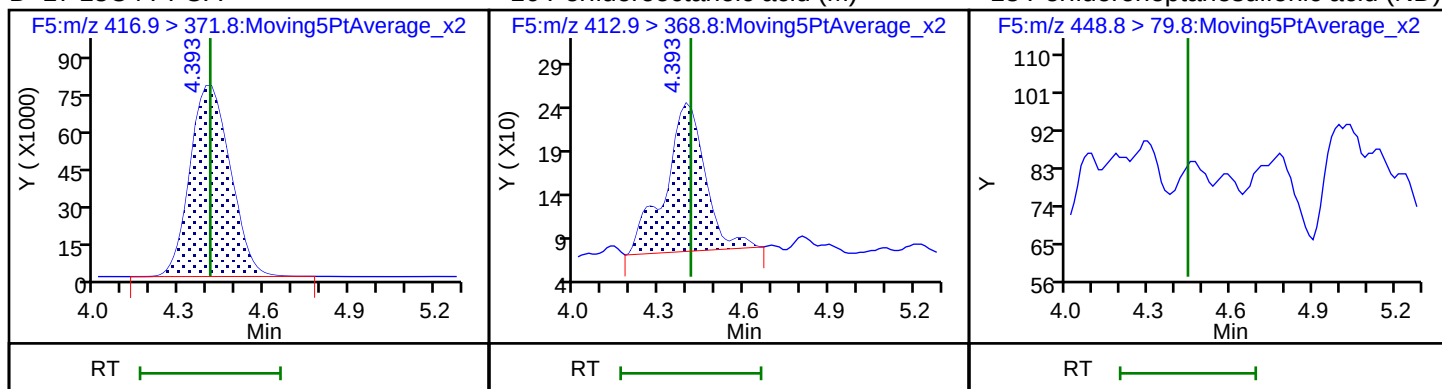
D 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid (M)

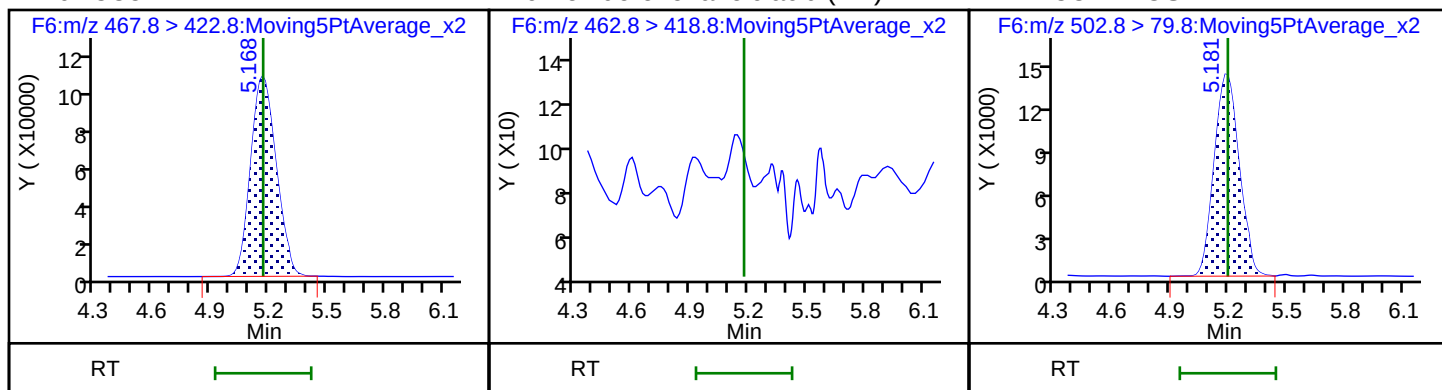
18 Perfluoroheptanesulfonic acid (ND)



D 20 13C5 PFNA

19 Perfluorononanoic acid (ND)

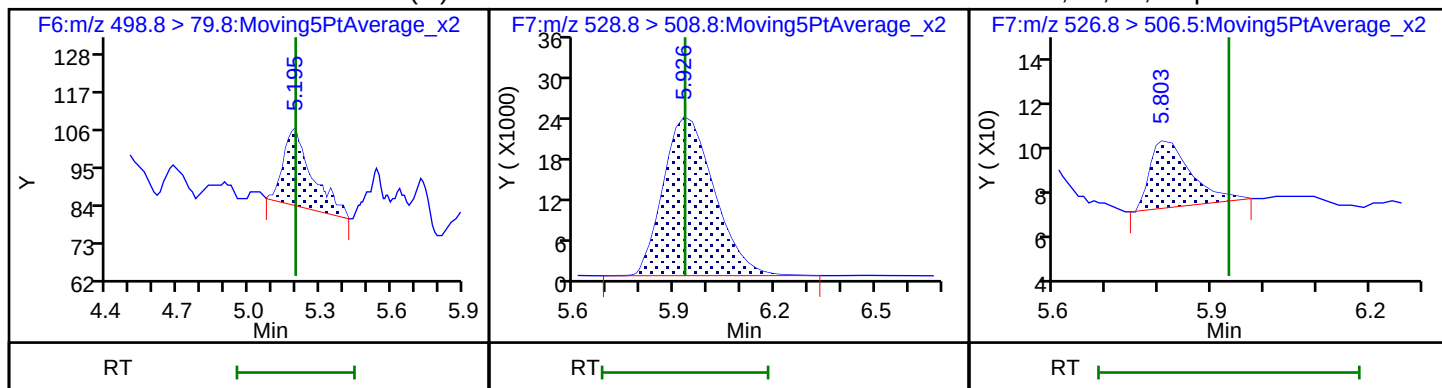
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

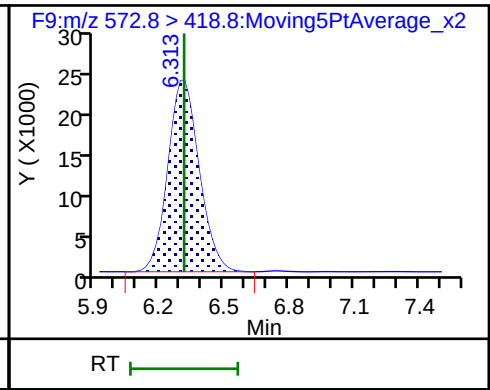
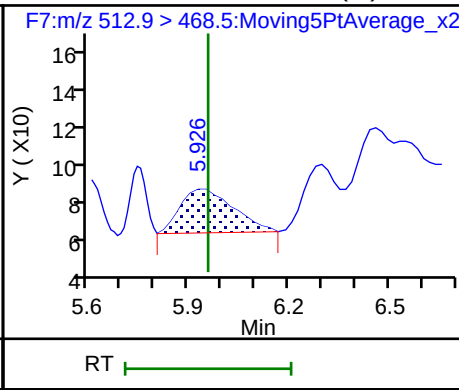
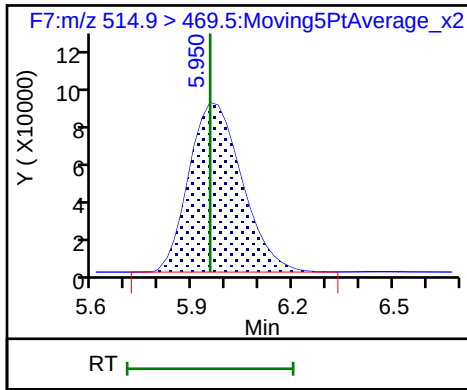
23 1H,1H,2H,2H-perfluorodecanesulfonate (M)



## D 26 13C2 PFDA

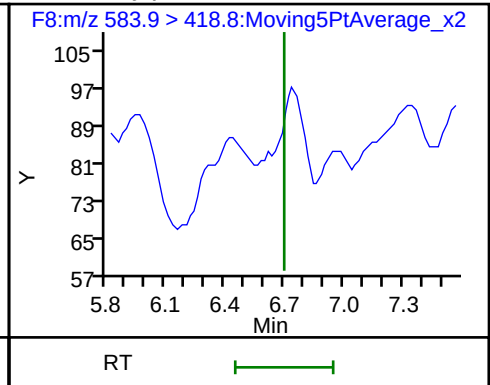
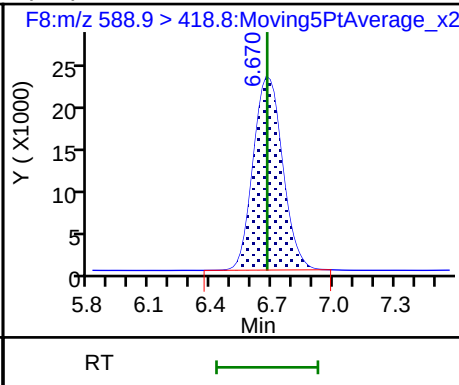
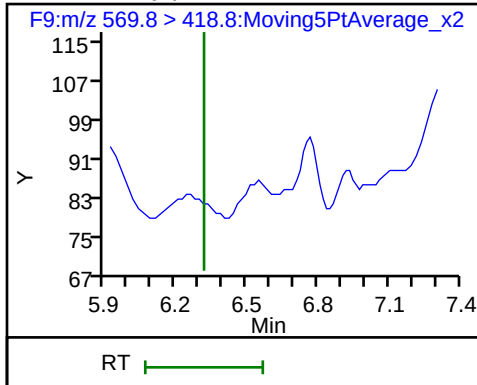
## 25 Perfluorodecanoic acid (M)

## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamide (ND)

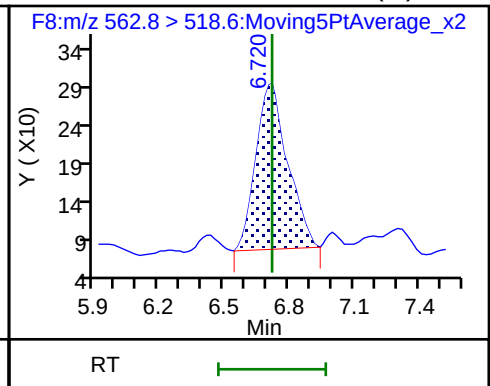
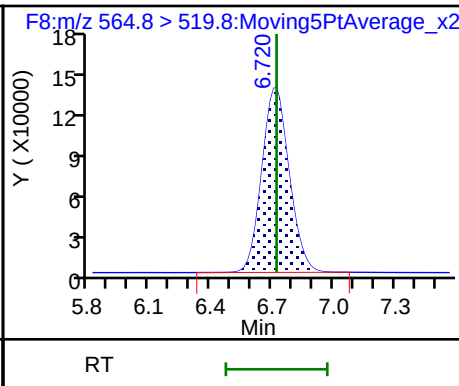
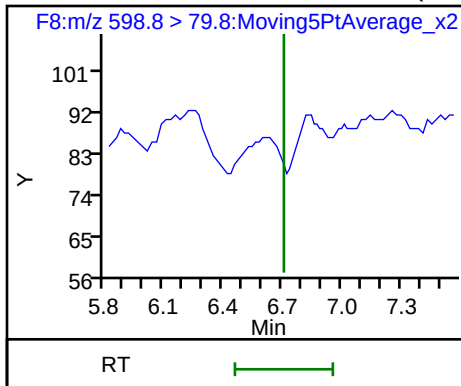
## 30 N-ethylperfluorooctanesulfonamide (ND)



## 31 Perfluorodecanesulfonic acid (ND)

## D 32 13C2 PFUnA

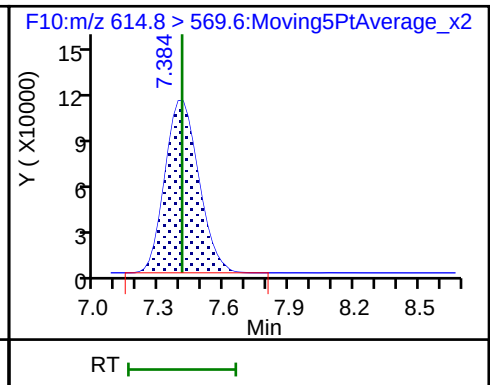
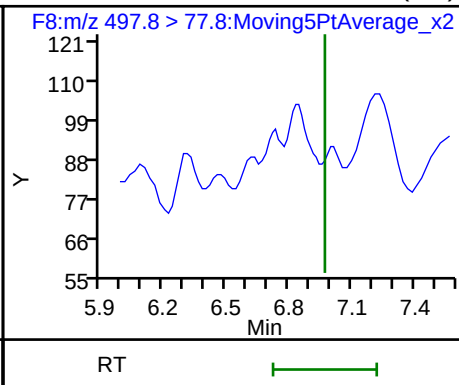
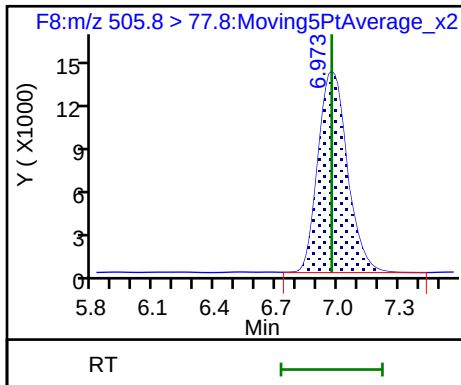
## 33 Perfluoroundecanoic acid (M)



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide (ND)

## D 37 13C2 PFDaA

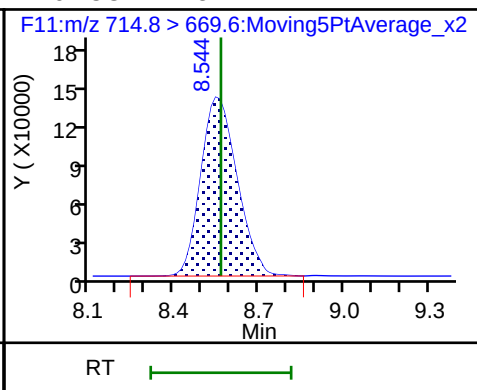
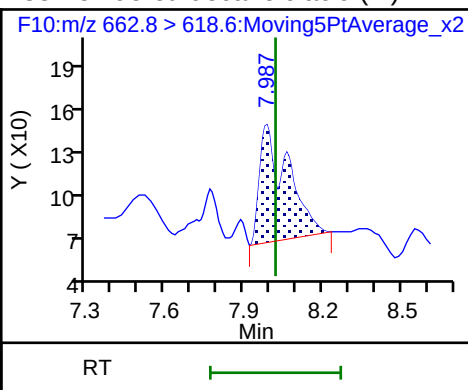
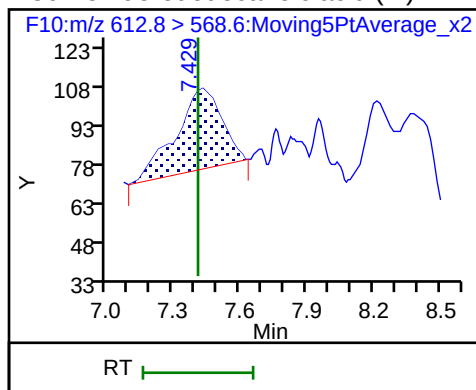




## 36 Perfluorododecanoic acid (M)

## 38 Perfluorotridecanoic acid (M)

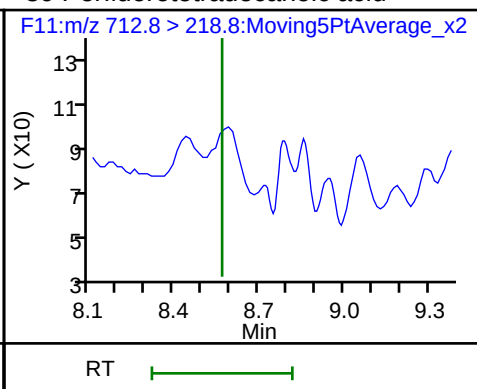
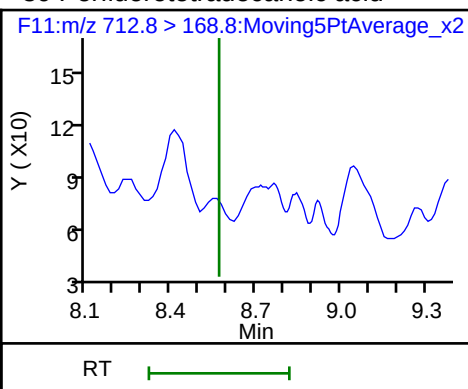
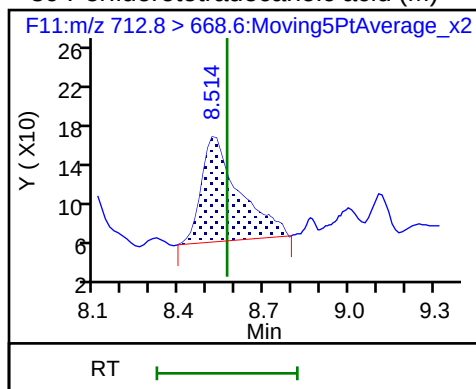
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid (M)

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

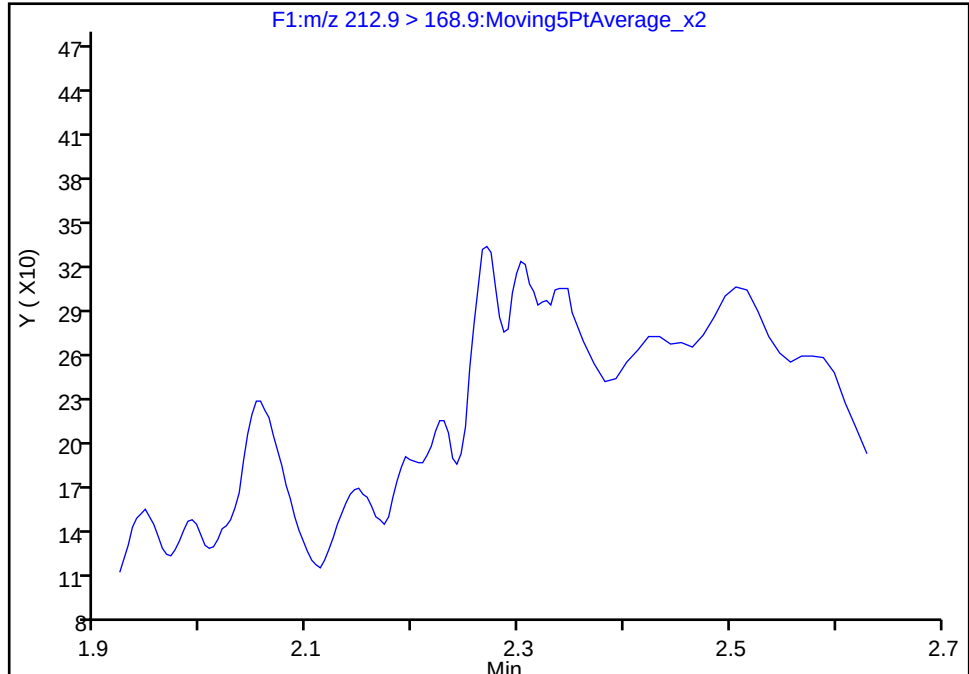
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F1:MRM       |                |    |

**2 Perfluorobutanoic acid, CAS: 375-22-4**

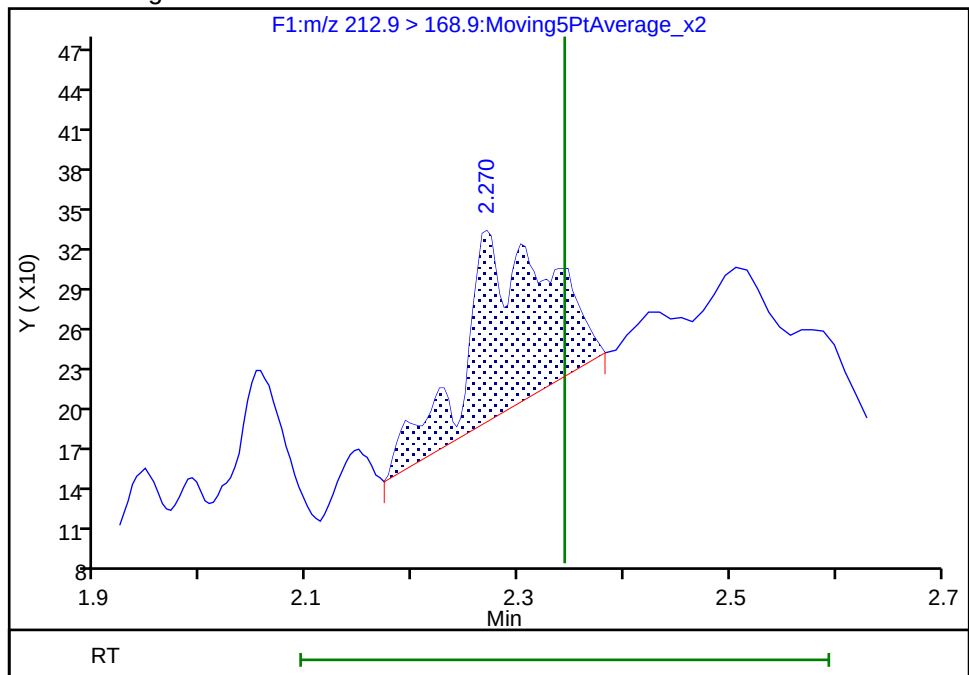
Signal: 1

Not Detected  
Expected RT: 2.34

## Processing Integration Results



## Manual Integration Results

RT: 2.27  
Area: 742  
Amount: 0.106464  
Amount Units: ng/mlReviewer: chirgwinb, 13-Oct-2018 10:50:45  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

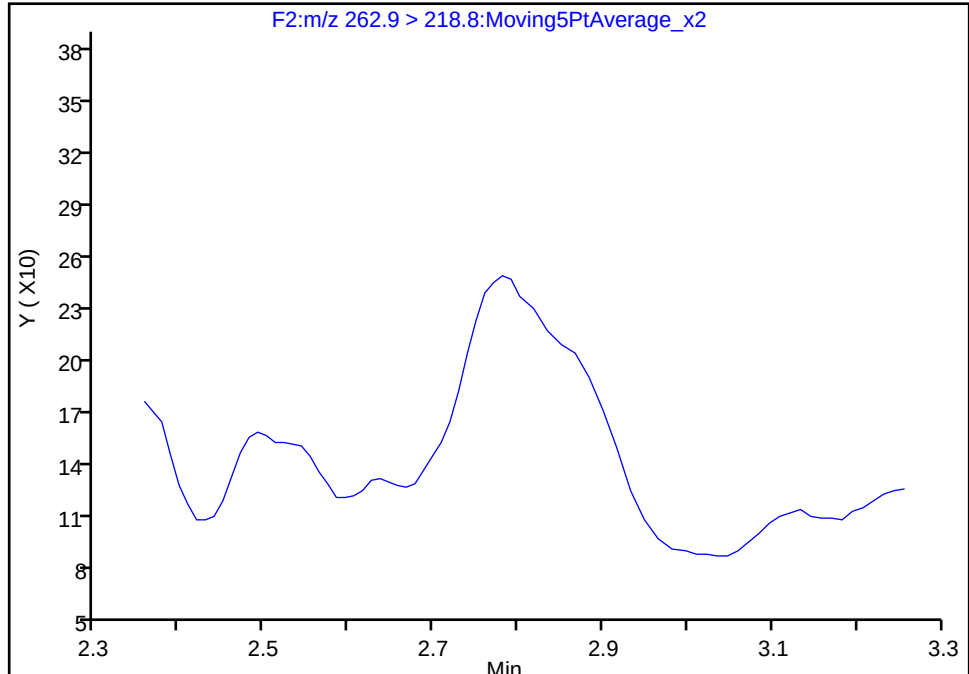
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|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

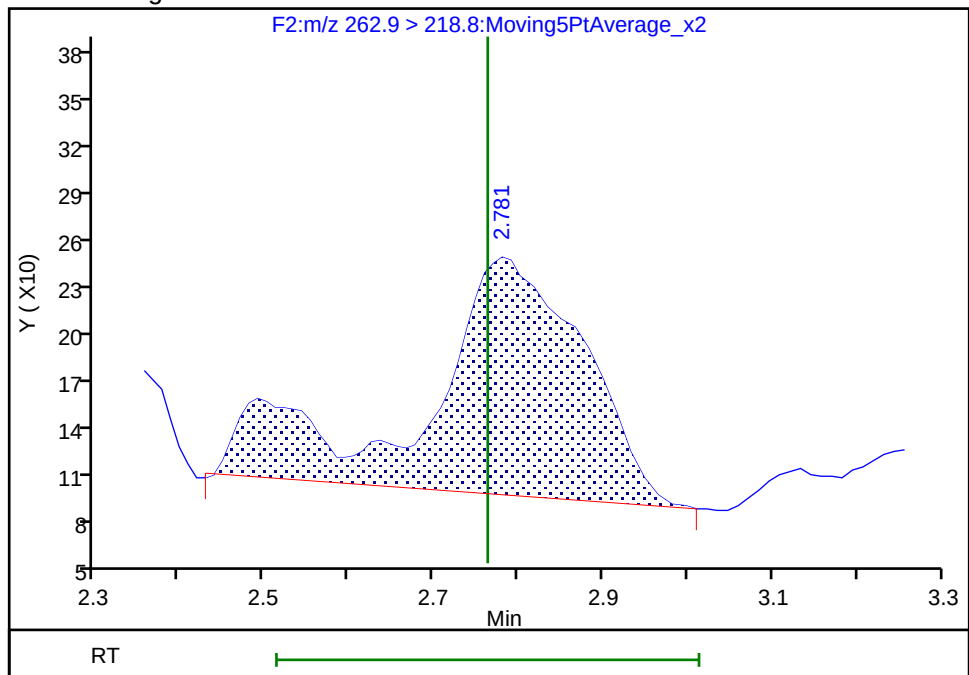
Signal: 1

Not Detected  
Expected RT: 2.76

## Processing Integration Results



## Manual Integration Results

RT: 2.78  
Area: 2024  
Amount: 0.167200  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:50:34

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

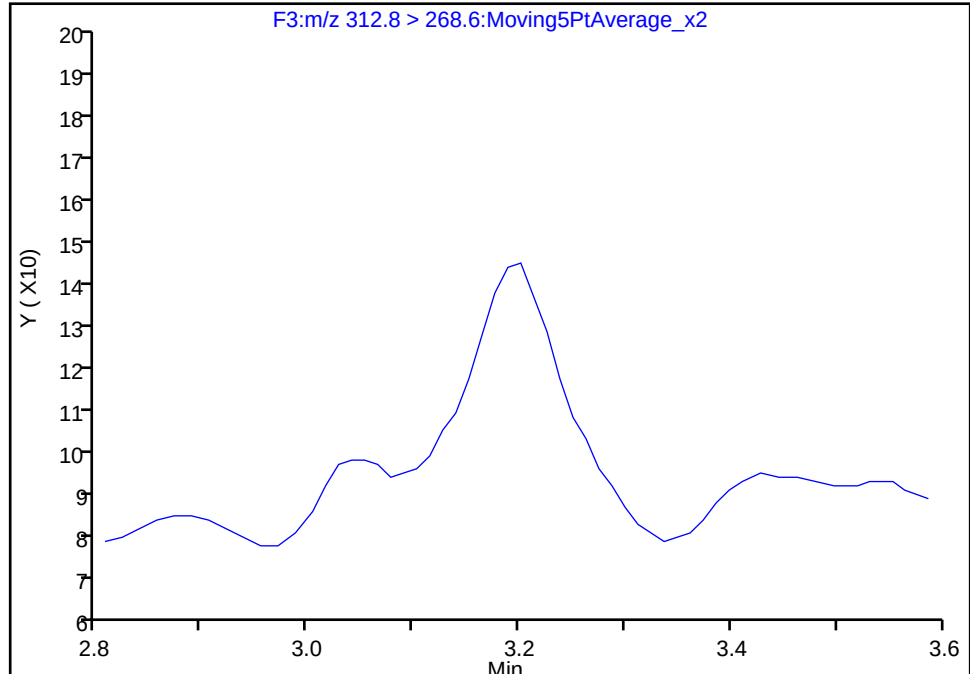
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| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F3:MRM       |                |    |

**8 Perfluorohexanoic acid, CAS: 307-24-4**

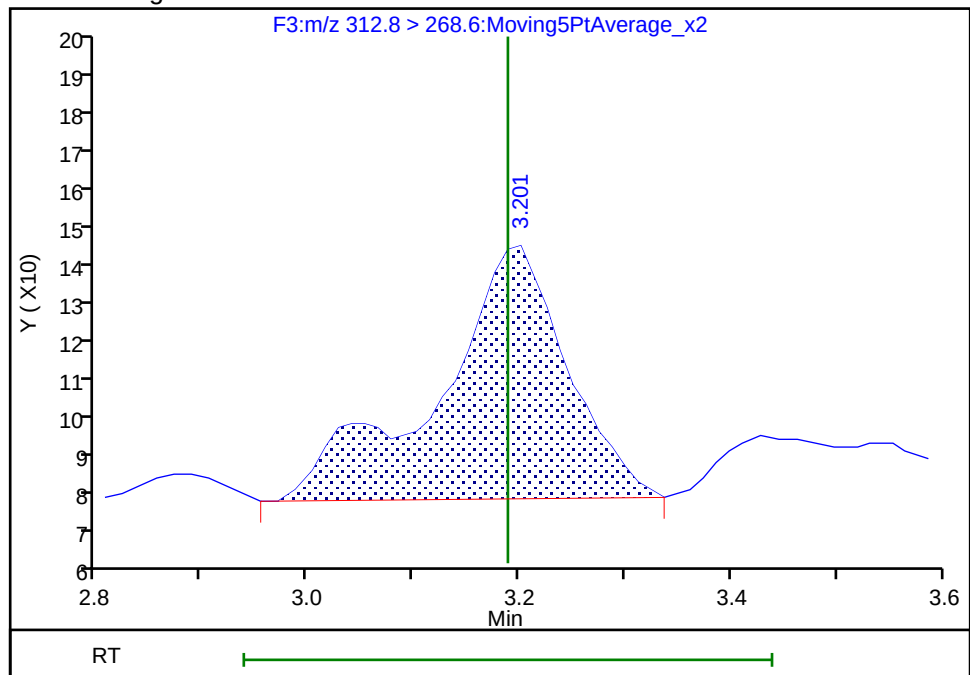
Signal: 1

Not Detected  
Expected RT: 3.19

## Processing Integration Results



## Manual Integration Results

RT: 3.20  
Area: 553  
Amount: 0.088418  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:50:27

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

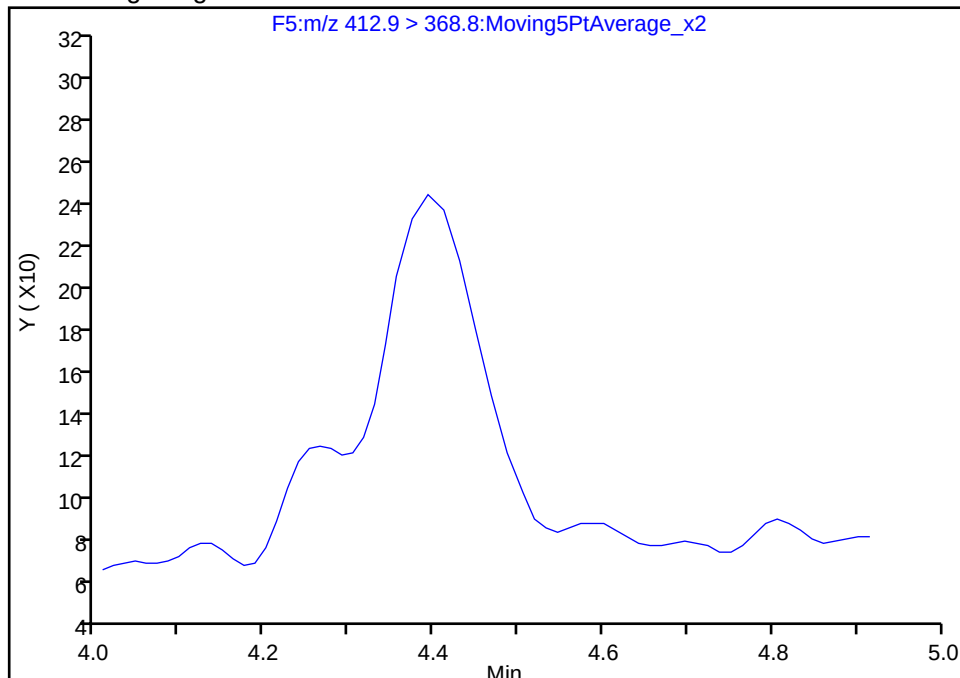
|                 |                                                                     |                |              |                |    |
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| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F5:MRM       |                |    |

**16 Perfluorooctanoic acid, CAS: 335-67-1**

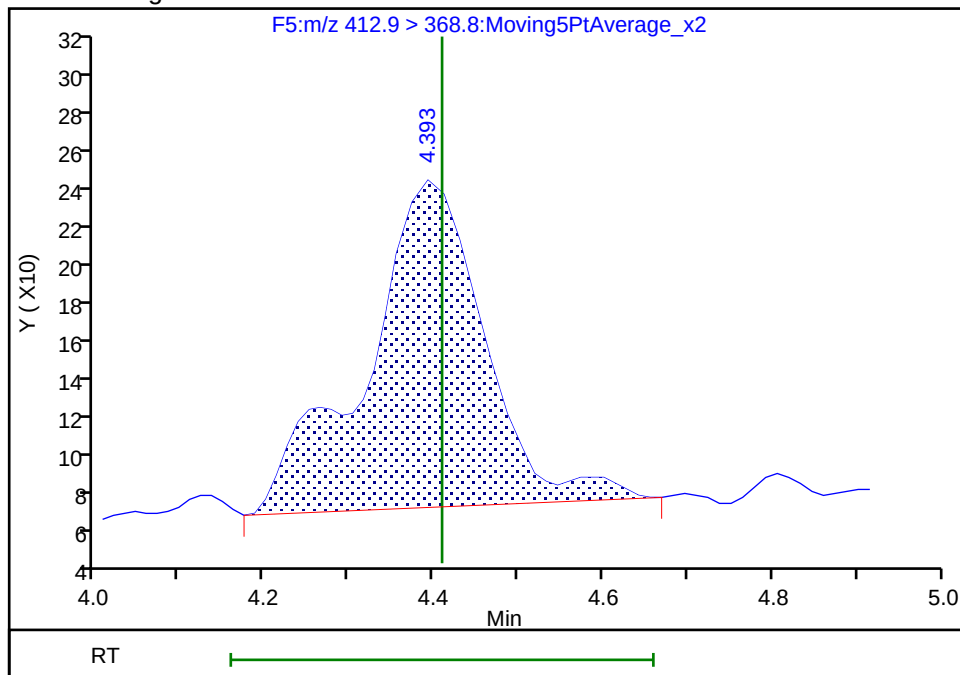
Signal: 1

Not Detected  
Expected RT: 4.41

## Processing Integration Results



## Manual Integration Results

RT: 4.39  
Area: 1601  
Amount: 0.098100  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:50:14

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

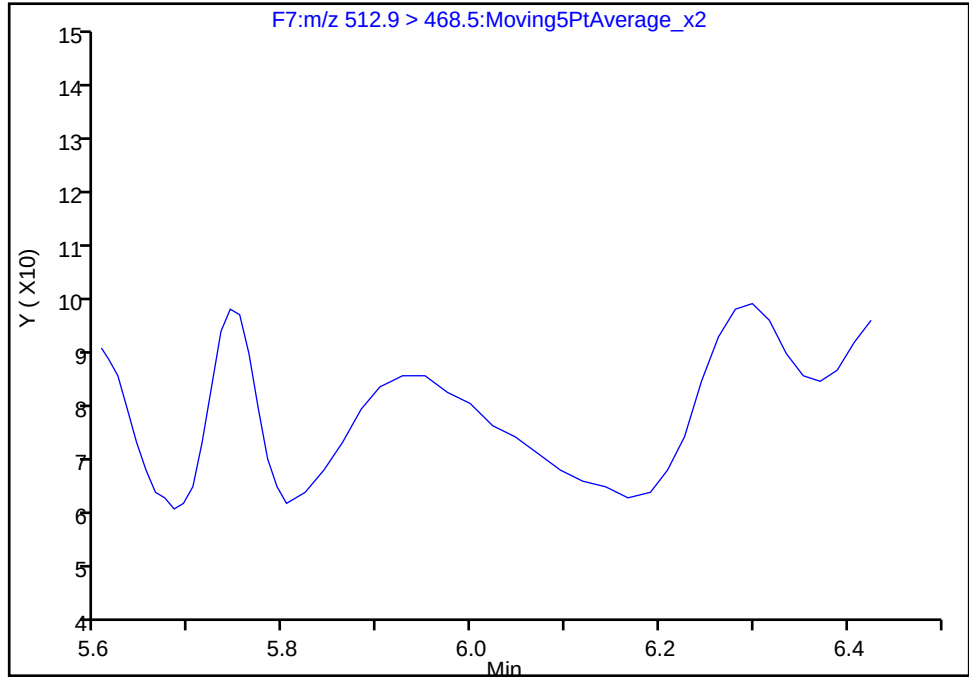
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F7:MRM       |                |    |

**25 Perfluorodecanoic acid, CAS: 335-76-2**

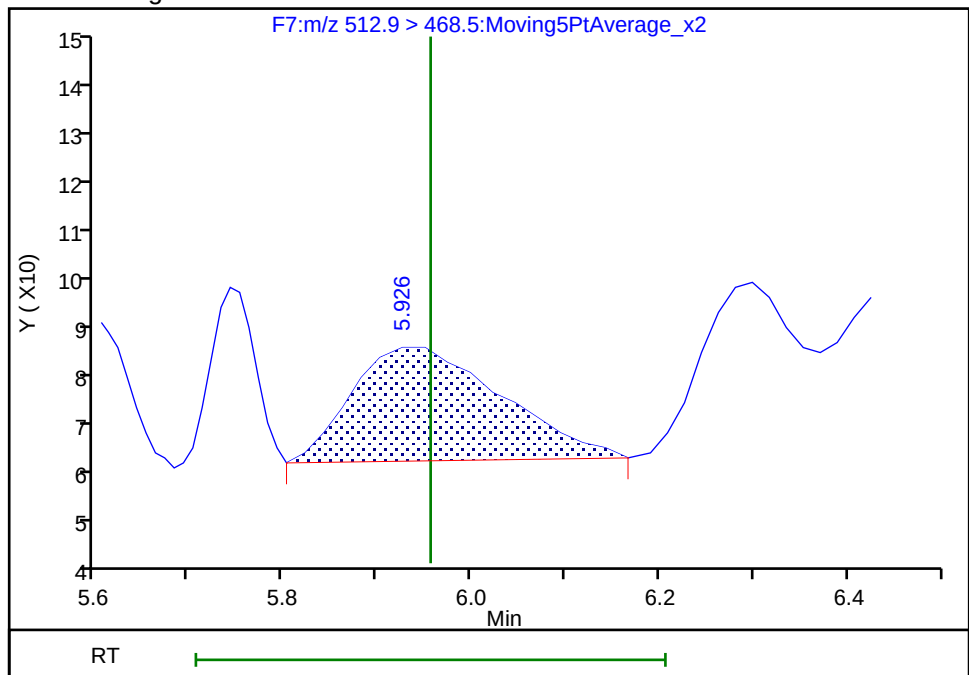
Signal: 1

Not Detected  
Expected RT: 5.96

## Processing Integration Results

RT: 5.93  
Area: 250  
Amount: 0.037391  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:49:58

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

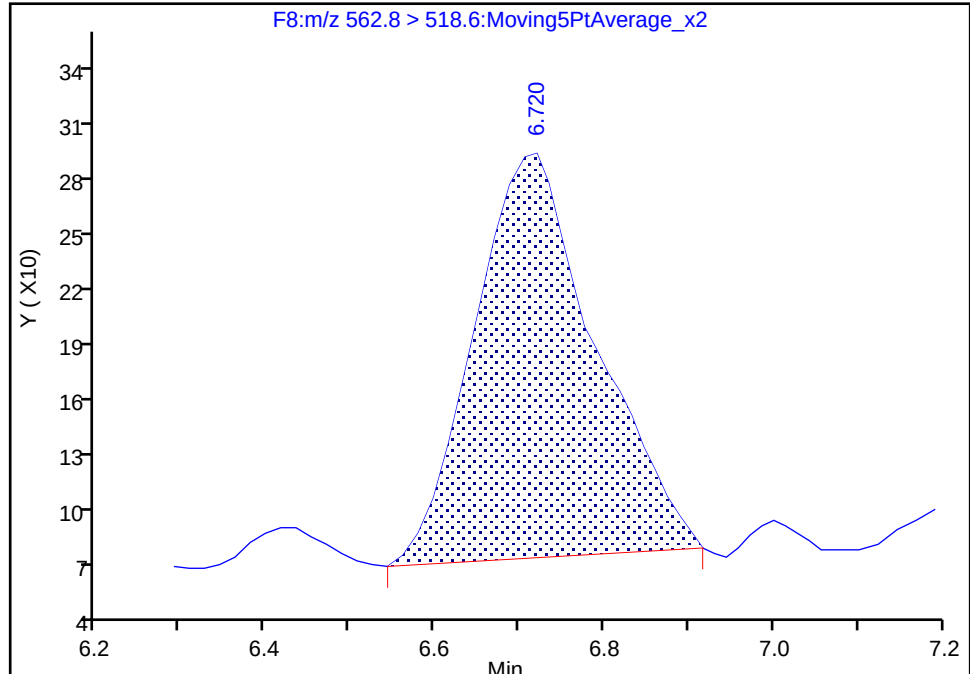
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|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector:      | F8:MRM       |                |    |

**33 Perfluoroundecanoic acid, CAS: 2058-94-8**

Signal: 1

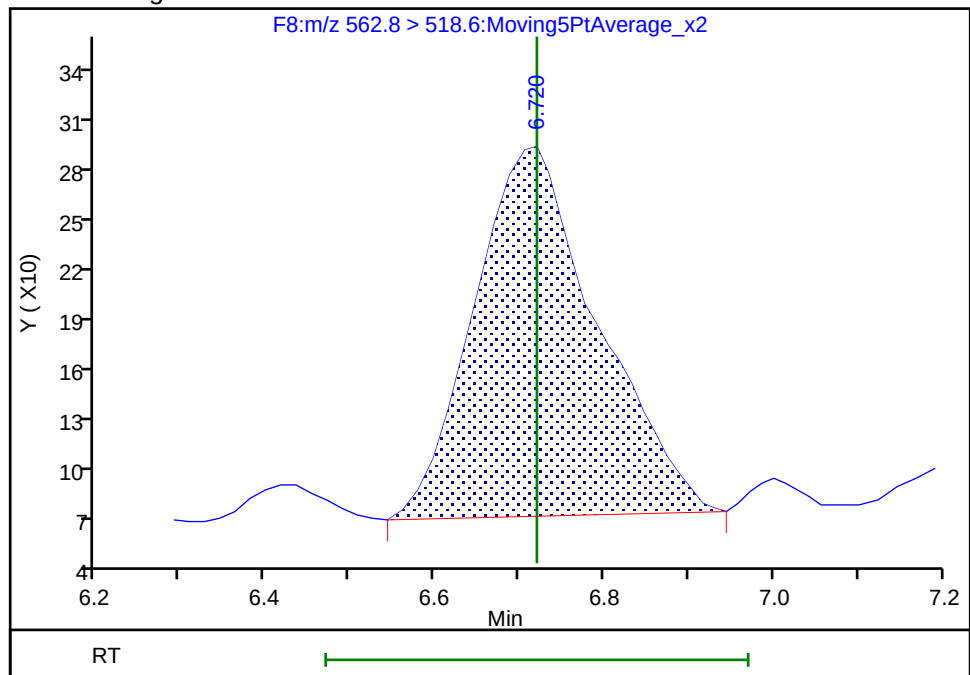
RT: 6.72  
Area: 2186  
Amount: 0.099968  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.72  
Area: 2250  
Amount: 0.102895  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:49:24  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

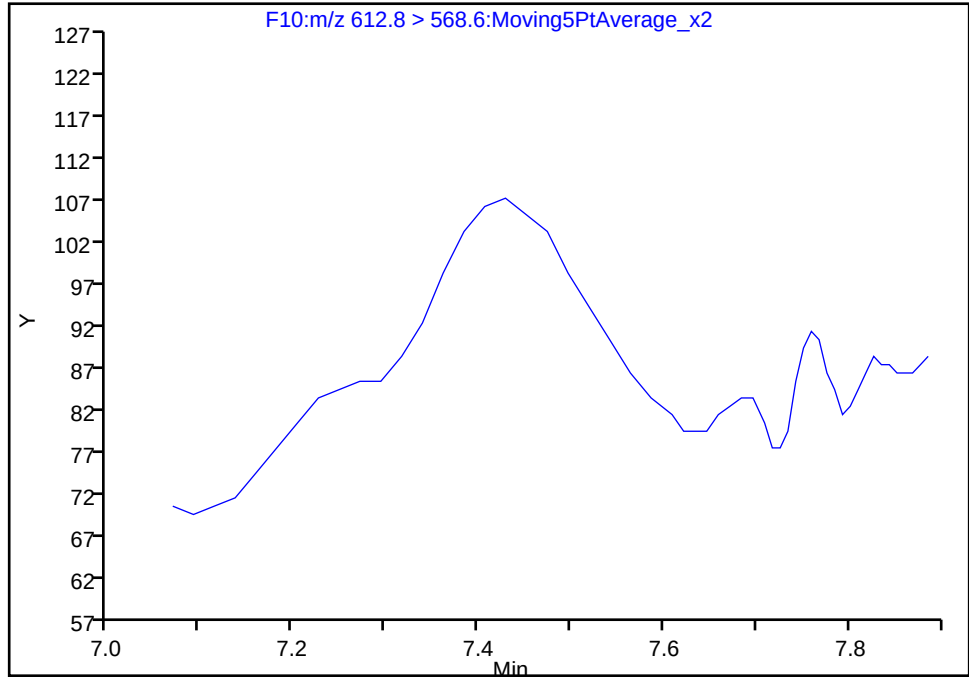
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**36 Perfluorododecanoic acid, CAS: 307-55-1**

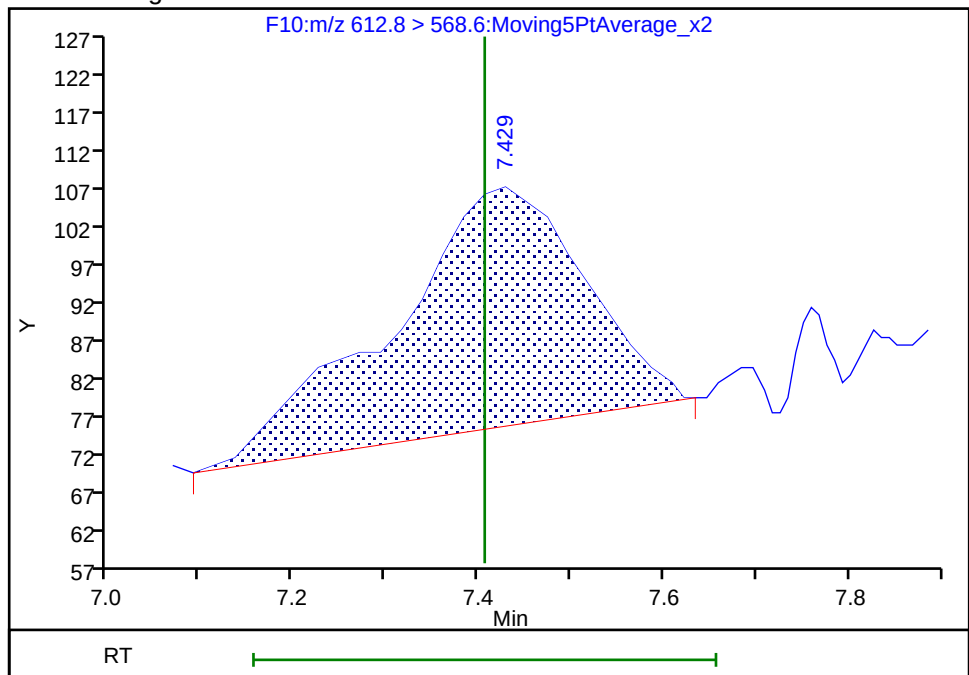
Signal: 1

Not Detected  
Expected RT: 7.41

## Processing Integration Results

RT: 7.43  
Area: 460  
Amount: 0.021750  
Amount Units: ng/ml

## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:49:45  
Audit Action: Manually Integrated

Audit Reason: Missed Peak



## TestAmerica Burlington

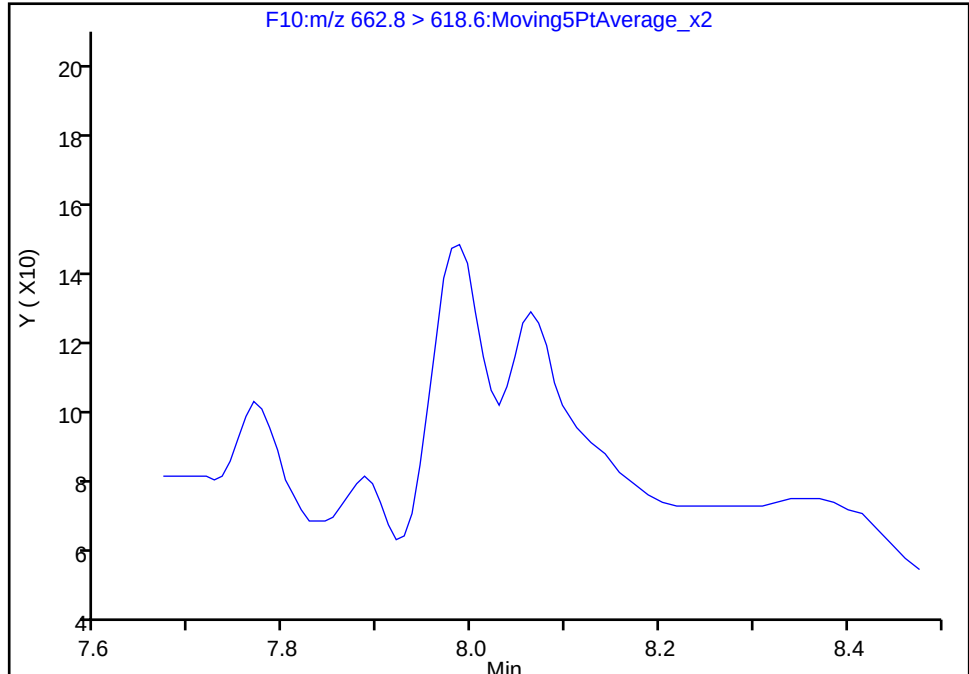
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|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F10:MRM      |                |    |

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

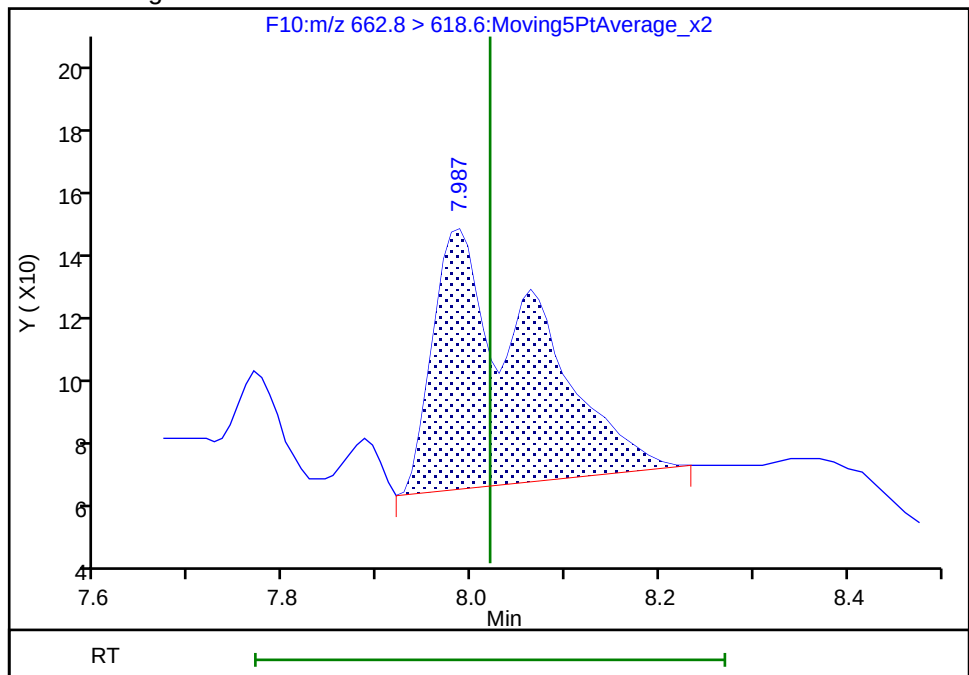
Signal: 1

Not Detected  
Expected RT: 8.02

## Processing Integration Results

RT: 7.99  
Area: 563  
Amount: 0.024889  
Amount Units: ng/ml

## Manual Integration Results

Reviewer: chirgwinb, 13-Oct-2018 10:49:41  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

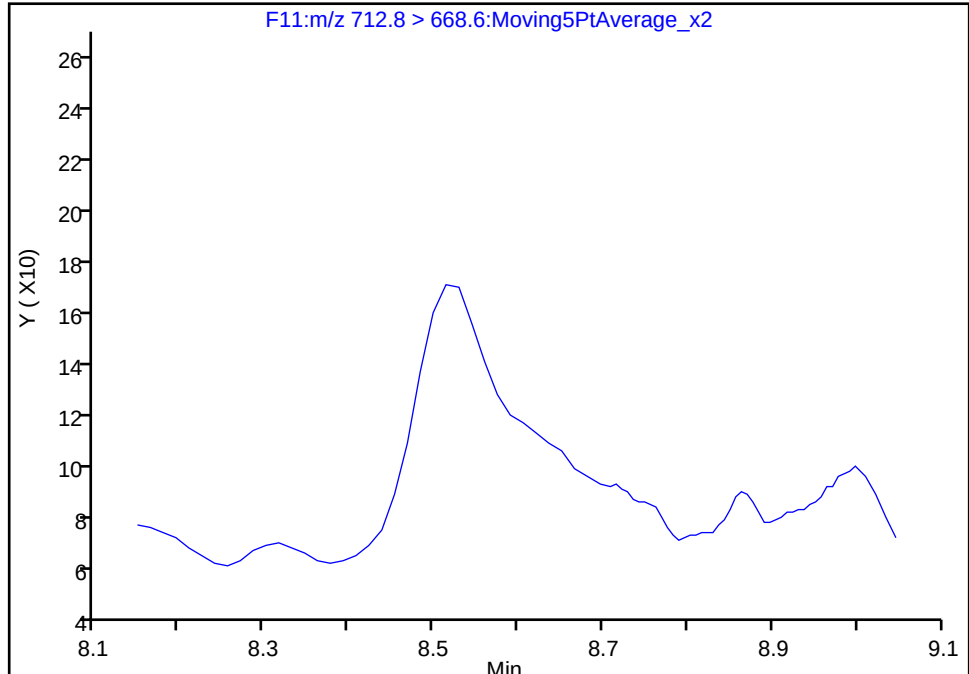
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d  
Injection Date: 12-Oct-2018 22:30:32 Instrument ID: LC410  
Lims ID: 460-165769-D-9-A Lab Sample ID: 200-165769-9  
Client ID: FB2 09272018  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 25  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F11:MRM

**39 Perfluorotetradecanoic acid, CAS: 376-06-7**

Signal: 1

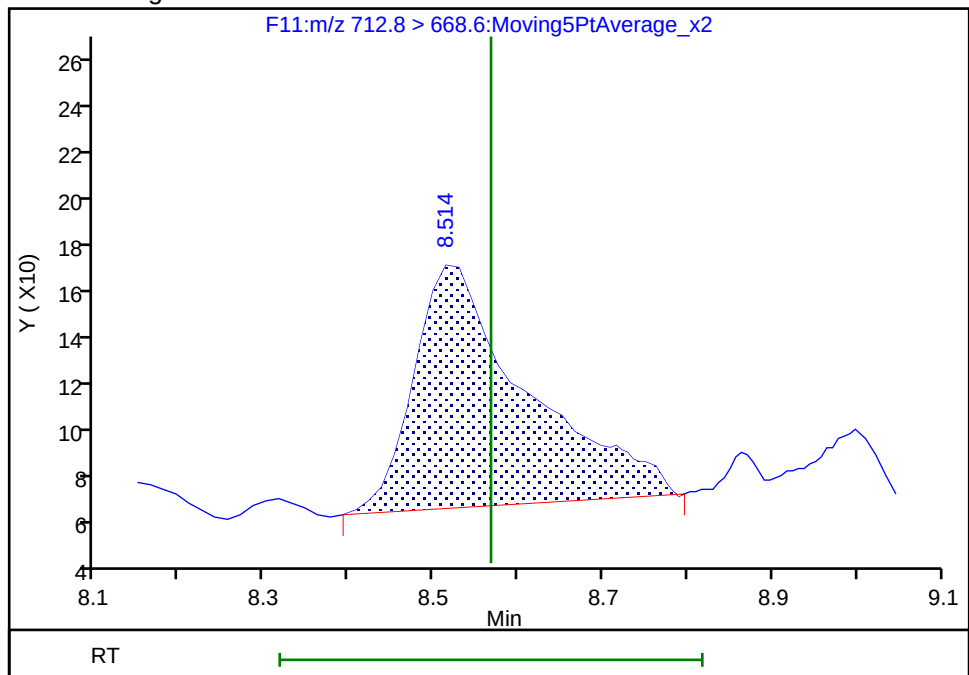
Not Detected  
Expected RT: 8.57

## Processing Integration Results



RT: 8.51  
Area: 975  
Amount: 0.041020  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:49:36  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

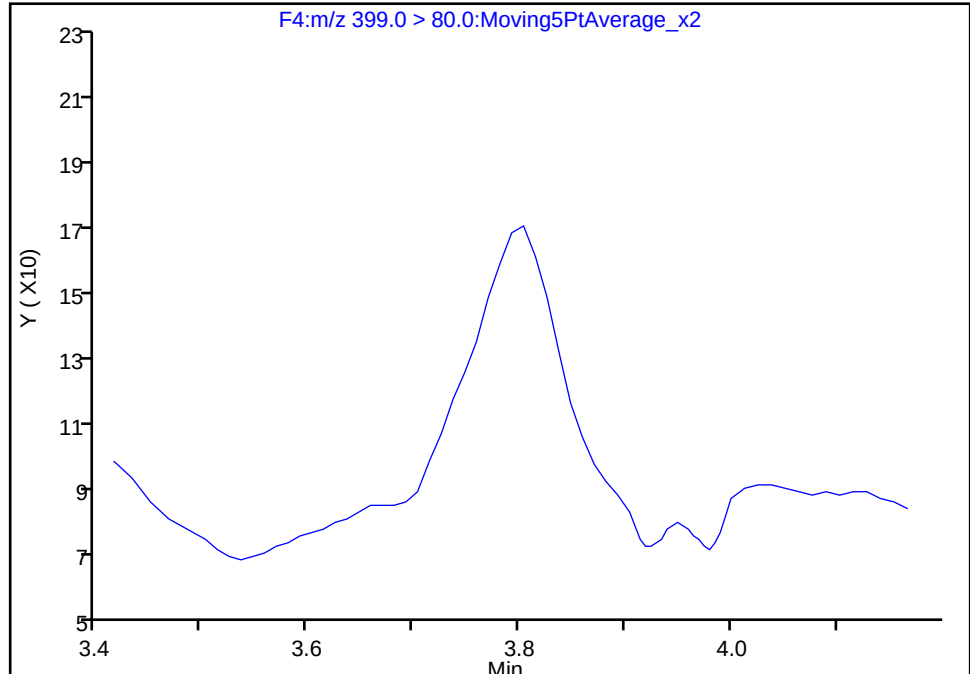
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F4:MRM       |                |    |

**12 Perfluorohexanesulfonic acid, CAS: 355-46-4**

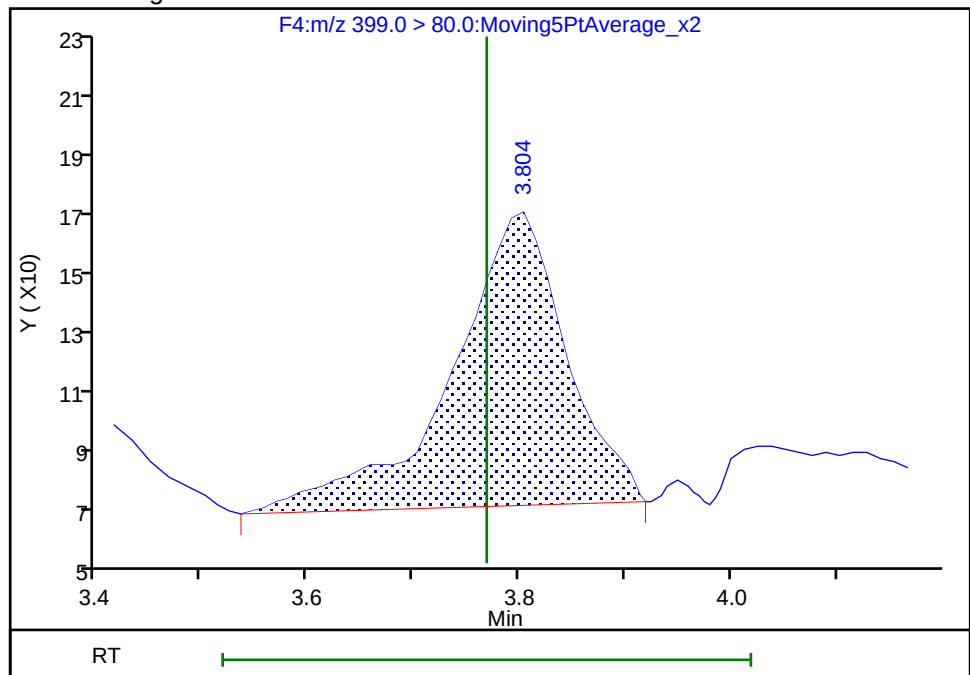
Signal: 1

Not Detected  
Expected RT: 3.77

## Processing Integration Results



## Manual Integration Results

RT: 3.80  
Area: 720  
Amount: 0.124724  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:50:20

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

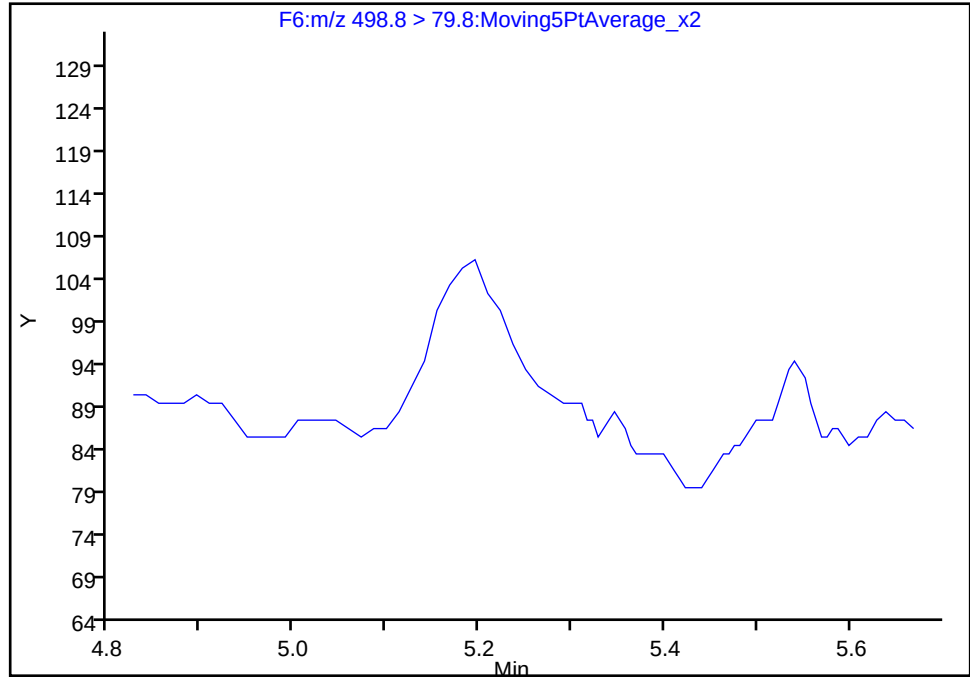
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F6:MRM       |                |    |

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

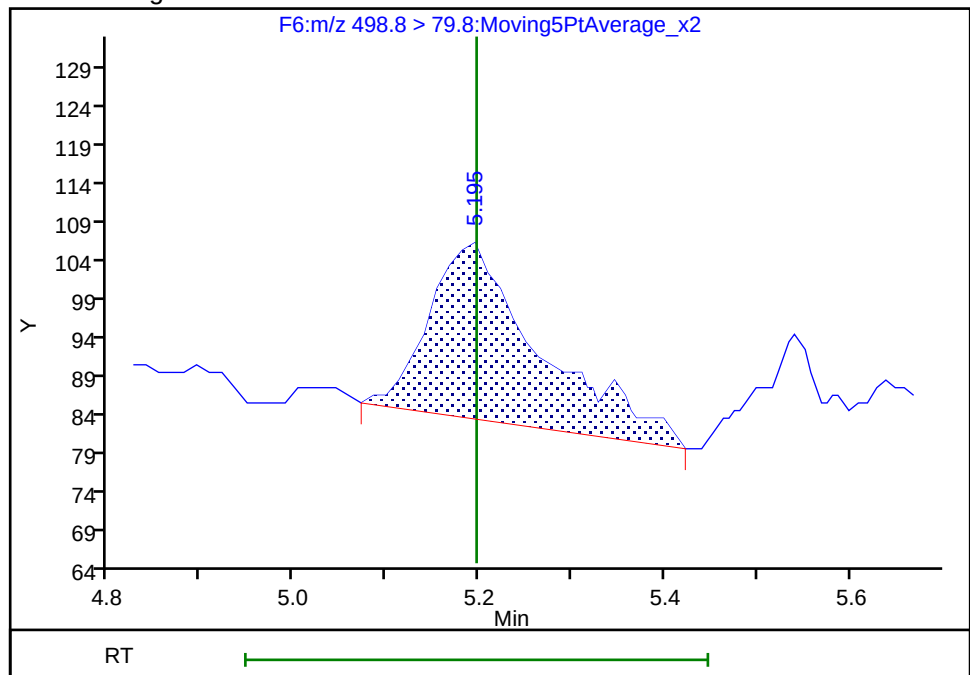
Signal: 1

Not Detected  
Expected RT: 5.20

## Processing Integration Results



## Manual Integration Results

RT: 5.20  
Area: 192  
Amount: 0.070069  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:50:07

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

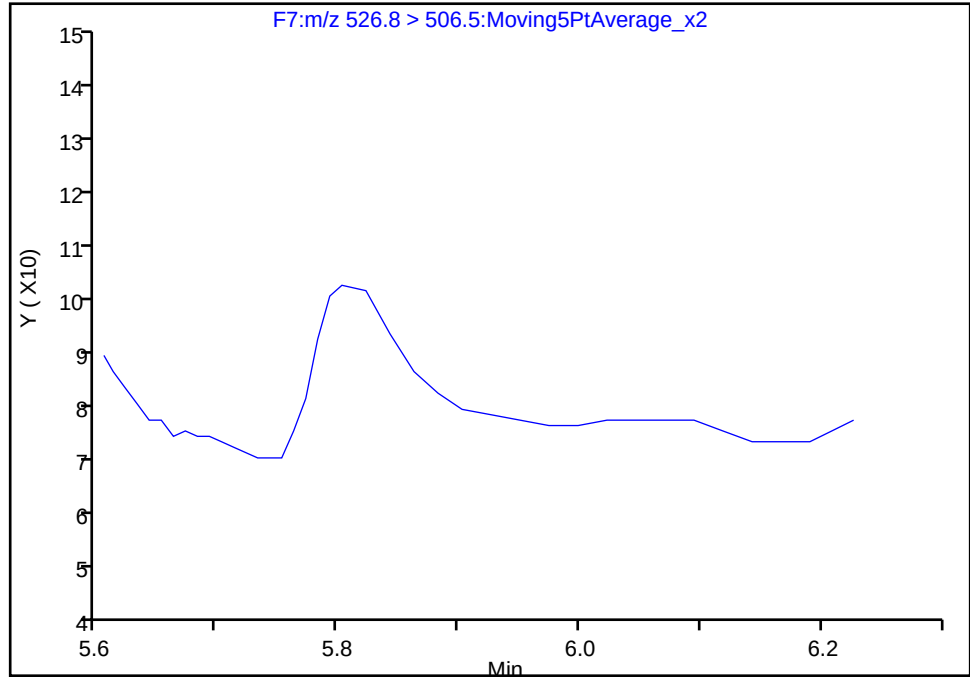
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F7:MRM       |                |    |

23 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

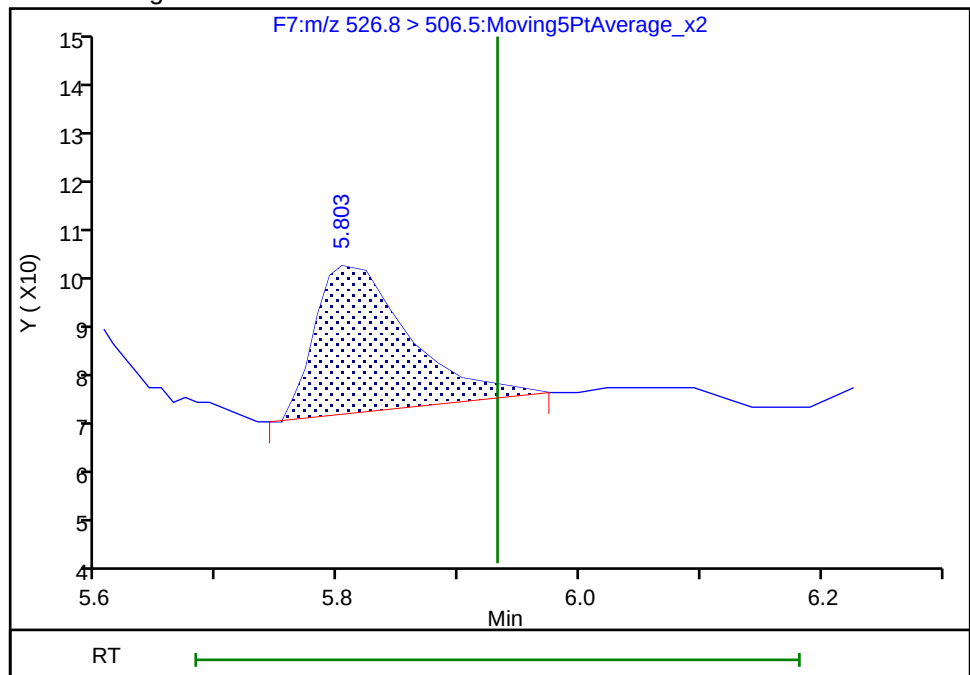
Not Detected  
Expected RT: 5.93

## Processing Integration Results



RT: 5.80  
Area: 163  
Amount: 0.043327  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:50:02  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

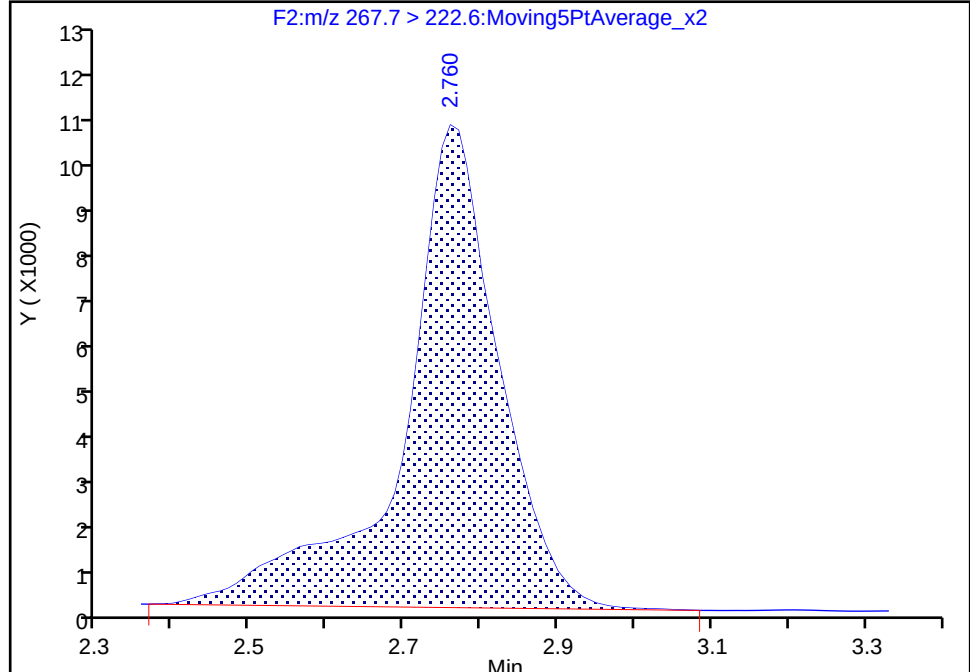
|                 |                                                                     |                |              |                |    |
|-----------------|---------------------------------------------------------------------|----------------|--------------|----------------|----|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A25.d |                |              |                |    |
| Injection Date: | 12-Oct-2018 22:30:32                                                | Instrument ID: | LC410        |                |    |
| Lims ID:        | 460-165769-D-9-A                                                    | Lab Sample ID: | 200-165769-9 |                |    |
| Client ID:      | FB2 09272018                                                        |                |              |                |    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0            | Worklist Smp#: | 25 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000       |                |    |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL  |                |    |
| Column:         |                                                                     | Detector       | F2:MRM       |                |    |

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

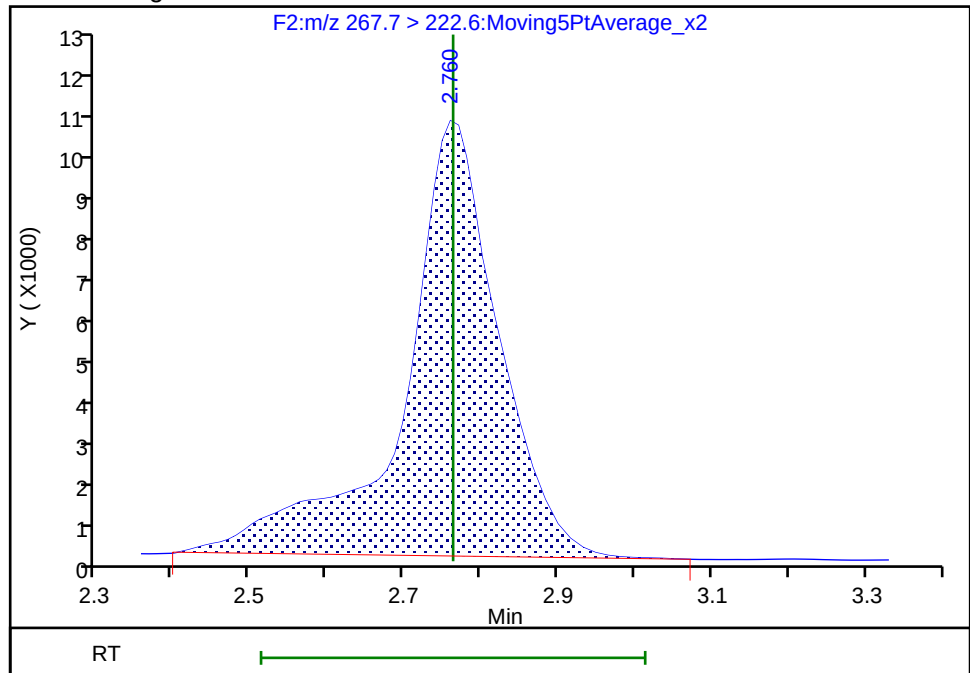
RT: 2.76  
Area: 90338  
Amount: 38.911784  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.76  
Area: 89385  
Amount: 38.501293  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:49:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 460-165769-1 Analy Batch No.: 135180

SDG No.: \_\_\_\_\_

Instrument ID: LC410 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2018 17:29 Calibration End Date: 10/12/2018 19:35 Calibration ID: 40207

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:     | LAB FILE ID:  |
|---------|--------------------|---------------|
| Level 1 | IC 200-135180/6    | PF101218A06.d |
| Level 2 | IC 200-135180/7    | PF101218A07.d |
| Level 3 | IC 200-135180/8    | PF101218A08.d |
| Level 4 | IC 200-135180/9    | PF101218A09.d |
| Level 5 | ICIS 200-135180/10 | PF101218A10.d |
| Level 6 | IC 200-135180/11   | PF101218A11.d |
| Level 7 | IC 200-135180/12   | PF101218A12.d |
| Level 8 | IC 200-135180/13   | PF101218A13.d |
| Level 9 | IC 200-135180/14   | PF101218A14.d |

| ANALYTE                                        | RRF              |                  |                  |                  |        | CURVE TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|------------------------------------------------|------------------|------------------|------------------|------------------|--------|------------|-------------|--------|----|---|---------|------|---|----------|------------|---|----------------|
|                                                | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  |            | B           | M1     | M2 |   |         |      |   |          |            |   |                |
| Perfluorobutanoic acid (PFBA)                  | 1.0063<br>1.0089 | 0.8667<br>0.9562 | 0.8701<br>1.0310 | 0.9498<br>1.0233 | 0.9106 | AveID      |             | 0.9581 |    |   |         | 6.7  |   | 35.0     |            |   |                |
| Perfluoropentanoic acid (PFPeA)                | 6.4311<br>6.8926 | 5.9237<br>6.6659 | 6.2143<br>7.3223 | 6.8582<br>7.3446 | 7.2900 | AveID      |             | 6.7714 |    |   |         | 7.5  |   | 35.0     |            |   |                |
| Perfluorobutanesulfonic acid (PFBS)            | 1.8466<br>2.2008 | 2.3728<br>1.8910 | 1.8104<br>2.1688 | 2.0322<br>2.0450 | 1.9315 | AveID      |             | 2.0332 |    |   |         | 9.2  |   | 35.0     |            |   |                |
| Perfluorohexanoic acid (PFHxA)                 | 1.0290<br>1.0354 | 1.0173<br>1.0720 | 1.1109<br>1.0783 | 1.0685<br>1.0863 | 1.0673 | AveID      |             | 1.0628 |    |   |         | 2.8  |   | 35.0     |            |   |                |
| Perfluoroheptanoic acid (PFHpA)                | 0.8758<br>0.9781 | 1.0696<br>1.0087 | 1.0306<br>1.0422 | 1.0040<br>0.9917 | 1.0436 | AveID      |             | 1.0049 |    |   |         | 5.6  |   | 35.0     |            |   |                |
| Perfluorohexanesulfonic acid (PFHxS)           | 2.0932<br>1.8805 | 1.7485<br>1.7863 | 2.0395<br>1.9074 | 1.7495<br>1.8027 | 1.7859 | AveID      |             | 1.8659 |    |   |         | 6.8  |   | 35.0     |            |   |                |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2) | 1.3510<br>0.7987 | 1.1495<br>0.8680 | 1.2782<br>0.9592 | 1.2545<br>0.7566 | 0.8874 | AveID      |             | 1.0337 |    |   |         | 21.9 |   | 35.0     |            |   |                |
| Perfluorooctanoic acid (PFOA)                  | 0.9695<br>1.0417 | 1.0111<br>0.9999 | 1.1217<br>1.1113 | 1.0692<br>1.0898 | 1.0069 | AveID      |             | 1.0468 |    |   |         | 5.1  |   | 35.0     |            |   |                |
| Perfluoroheptanesulfonic Acid (PFHpS)          | 0.8212<br>0.9032 | 0.7790<br>0.9300 | 0.8813<br>0.9321 | 0.9253<br>0.8209 | 0.9178 | AveID      |             | 0.8790 |    |   |         | 6.5  |   | 50.0     |            |   |                |
| Perfluorononanoic acid (PFNA)                  | 1.7307<br>1.0866 | 1.2609<br>1.0722 | 1.1783<br>1.0744 | 1.0508<br>1.0585 | 1.0611 | L1ID       | 0.5475      | 1.0582 |    |   |         |      |   |          | 1.0000     |   | 0.9900         |
| Perfluorooctanesulfonic acid (PFOS)            | 1.1233<br>0.9895 | 0.8136<br>1.0649 | 1.1192<br>1.0662 | 1.0349<br>1.0635 | 1.0208 | AveID      |             | 1.0329 |    |   |         | 9.0  |   | 35.0     |            |   |                |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2) | 0.6823<br>0.7932 | 0.6663<br>0.7134 | 0.7550<br>0.8231 | 0.6433<br>0.6382 | 0.7563 | AveID      |             | 0.7190 |    |   |         | 9.3  |   | 35.0     |            |   |                |
| Perfluorodecanoic acid (PFDA)                  | 0.7303<br>0.9756 | 1.1247<br>1.0195 | 1.0013<br>1.0313 | 1.0231<br>0.9690 | 1.0472 | L1ID       | -0.024      | 0.9965 |    |   |         |      |   |          | 0.9990     |   | 0.9900         |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 460-165769-1 Analy Batch No.: 135180

SDG No.: \_\_\_\_\_

Instrument ID: LC410 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2018 17:29 Calibration End Date: 10/12/2018 19:35 Calibration ID: 40207

| ANALYTE                                                  | RRF              |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|----------------------------------------------------------|------------------|------------------|------------------|------------------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                                                          | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.9027<br>1.0605 | 1.0750<br>1.0916 | 1.1569<br>1.0202 | 1.0245<br>1.1468 | 1.0229 | AveID         |             | 1.0557 |    |   |         | 7.3  |   | 35.0        |               |   |                   |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.8400<br>1.0276 | 0.9016<br>1.0082 | 1.1663<br>0.9578 | 1.0031<br>0.9804 | 0.9614 | AveID         |             | 0.9829 |    |   |         | 9.2  |   | 35.0        |               |   |                   |
| Perfluorodecanesulfonic acid (PFDS)                      | 1.3500<br>1.0428 | 1.1505<br>1.1169 | 1.2493<br>1.1332 | 1.1448<br>1.0325 | 1.0395 | AveID         |             | 1.1399 |    |   |         | 9.2  |   | 50.0        |               |   |                   |
| Perfluoroundecanoic acid (PFUnA)                         | 0.8448<br>0.8467 | 0.9520<br>0.8755 | 0.9975<br>0.8393 | 0.8805<br>0.8801 | 0.8568 | AveID         |             | 0.8859 |    |   |         | 6.1  |   | 35.0        |               |   |                   |
| Perfluorooctanesulfonamide (PFOSA)                       | 0.7684<br>0.8993 | 0.7905<br>0.9117 | 0.9512<br>0.8148 | 0.8825<br>0.8825 | 0.8199 | AveID         |             | 0.8579 |    |   |         | 7.2  |   | 35.0        |               |   |                   |
| Perfluorododecanoic acid (PFDoA)                         | 0.9103<br>0.8442 | 0.8002<br>0.8498 | 0.8447<br>0.8812 | 0.8867<br>0.8731 | 0.8945 | AveID         |             | 0.8649 |    |   |         | 3.9  |   | 35.0        |               |   |                   |
| Perfluorotridecanoic acid (PFTriA)                       | 0.9467<br>0.7589 | 0.9426<br>0.9702 | 0.9885<br>0.9407 | 0.9680<br>0.8911 | 0.9689 | AveID         |             | 0.9306 |    |   |         | 7.5  |   | 50.0        |               |   |                   |
| Perfluorotetradecanoic acid (PFTeA)                      | 0.8487<br>0.8998 | 1.0960<br>0.9811 | 1.0748<br>0.9659 | 0.9747<br>0.9461 | 1.0139 | AveID         |             | 0.9779 |    |   |         | 8.0  |   | 35.0        |               |   |                   |
| 13C4 PFBA                                                | 0.4299<br>0.4952 | 0.5935<br>0.5462 | 0.6005<br>0.5363 | 0.4982<br>0.5871 | 0.5652 | Ave           |             | 0.5391 |    |   |         | 10.4 |   | 30.0        |               |   |                   |
| 13C5 PFPeA                                               | 0.1180<br>0.1123 | 0.1608<br>0.1376 | 0.1564<br>0.1178 | 0.1151<br>0.1235 | 0.1224 | Ave           |             | 0.1293 |    |   |         | 14.0 |   | 30.0        |               |   |                   |
| 13C3 PFBS                                                | 0.1523<br>0.1559 | 0.2048<br>0.2199 | 0.2256<br>0.1775 | 0.1778<br>0.1954 | 0.1937 | Ave           |             | 0.1892 |    |   |         | 13.6 |   | 30.0        |               |   |                   |
| 13C2 PFHxA                                               | 0.3660<br>0.3693 | 0.4686<br>0.4025 | 0.4441<br>0.3600 | 0.3674<br>0.3545 | 0.4131 | Ave           |             | 0.3939 |    |   |         | 10.4 |   | 30.0        |               |   |                   |
| 13C4 PFHpA                                               | 1.1374<br>1.1239 | 1.1929<br>1.1878 | 1.1849<br>1.1336 | 1.0748<br>1.1947 | 1.1491 | Ave           |             | 1.1532 |    |   |         | 3.5  |   | 30.0        |               |   |                   |
| 18O2 PFHxS                                               | 0.2180<br>0.1943 | 0.2548<br>0.2451 | 0.2340<br>0.2170 | 0.2076<br>0.2400 | 0.2422 | Ave           |             | 0.2281 |    |   |         | 8.7  |   | 30.0        |               |   |                   |
| M2-6:2 FTS                                               | 0.0372<br>0.0396 | 0.0419<br>0.0428 | 0.0400<br>0.0407 | 0.0305<br>0.0561 | 0.0458 | Ave           |             | 0.0416 |    |   |         | 16.5 |   | 30.0        |               |   |                   |
| 13C4 PFOA                                                | 0.9395<br>0.9082 | 0.9519<br>0.9831 | 0.9532<br>0.8834 | 0.8633<br>0.9029 | 0.9449 | Ave           |             | 0.9256 |    |   |         | 4.2  |   | 30.0        |               |   |                   |
| 13C5 PFNA                                                | 1.1398<br>1.1071 | 1.2594<br>1.2064 | 1.2590<br>1.1864 | 1.0968<br>1.2129 | 1.1889 | Ave           |             | 1.1841 |    |   |         | 5.0  |   | 30.0        |               |   |                   |
| 13C4 PFOS                                                | 0.1721<br>0.1765 | 0.2069<br>0.2035 | 0.2078<br>0.1844 | 0.1702<br>0.2020 | 0.1978 | Ave           |             | 0.1912 |    |   |         | 8.1  |   | 30.0        |               |   |                   |
| M2-8:2 FTS                                               | 0.2931<br>0.3022 | 0.2770<br>0.3260 | 0.3066<br>0.3201 | 0.2783<br>0.4033 | 0.3097 | Ave           |             | 0.3129 |    |   |         | 12.1 |   | 30.0        |               |   |                   |
| 13C2 PFDA                                                | 1.3291<br>1.3168 | 1.2898<br>1.3467 | 1.4000<br>1.2125 | 1.2080<br>1.2672 | 1.3111 | Ave           |             | 1.2979 |    |   |         | 4.8  |   | 30.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 460-165769-1 Analy Batch No.: 135180

SDG No.: \_\_\_\_\_

Instrument ID: LC410 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2018 17:29 Calibration End Date: 10/12/2018 19:35 Calibration ID: 40207

| ANALYTE     | RRF              |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-------------|------------------|------------------|------------------|------------------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|             | LVL 1            | LVL 2            | LVL 3            | LVL 4            | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
|             | LVL 6            | LVL 7            | LVL 8            | LVL 9            |        |               |             |        |    |   |         |      |   |             |               |   |                   |
| d3-NMeFOSAA | 0.3191<br>0.3712 | 0.3443<br>0.3674 | 0.3414<br>0.4244 | 0.3426<br>0.4271 | 0.3526 | Ave           |             | 0.3656 |    |   |         | 10.2 |   | 30.0        |               |   |                   |
| d5-NEtFOSAA | 0.3089<br>0.3068 | 0.3326<br>0.3155 | 0.3139<br>0.3269 | 0.2940<br>0.3349 | 0.3239 | Ave           |             | 0.3175 |    |   |         | 4.2  |   | 30.0        |               |   |                   |
| 13C2 PFUnA  | 1.5313<br>1.5223 | 1.5541<br>1.4995 | 1.4938<br>1.4484 | 1.4386<br>1.3938 | 1.5068 | Ave           |             | 1.4876 |    |   |         | 3.4  |   | 30.0        |               |   |                   |
| 13C8 FOSA   | 0.3551<br>0.2842 | 0.3708<br>0.3458 | 0.3642<br>0.3476 | 0.3002<br>0.3209 | 0.3643 | Ave           |             | 0.3392 |    |   |         | 9.0  |   | 30.0        |               |   |                   |
| 13C2 PFDoA  | 1.4901<br>1.6248 | 1.5704<br>1.7238 | 1.5883<br>1.7323 | 1.4930<br>1.8653 | 1.5802 | Ave           |             | 1.6298 |    |   |         | 7.5  |   | 30.0        |               |   |                   |
| 13C2 PFTeDA | 1.5435<br>1.1235 | 1.6101<br>1.6421 | 1.5802<br>1.7664 | 1.4589<br>1.9318 | 1.6010 | Ave           |             | 1.5842 |    |   |         | 13.9 |   | 30.0        |               |   |                   |

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 460-165769-1 Analy Batch No.: 135180

SDG No.: \_\_\_\_\_

Instrument ID: LC410 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2018 17:29 Calibration End Date: 10/12/2018 19:35 Calibration ID: 40207

Calibration Files:

|         |                    |               |
|---------|--------------------|---------------|
| LEVEL:  | LAB SAMPLE ID:     | LAB FILE ID:  |
| Level 1 | IC 200-135180/6    | PF101218A06.d |
| Level 2 | IC 200-135180/7    | PF101218A07.d |
| Level 3 | IC 200-135180/8    | PF101218A08.d |
| Level 4 | IC 200-135180/9    | PF101218A09.d |
| Level 5 | ICIS 200-135180/10 | PF101218A10.d |
| Level 6 | IC 200-135180/11   | PF101218A11.d |
| Level 7 | IC 200-135180/12   | PF101218A12.d |
| Level 8 | IC 200-135180/13   | PF101218A13.d |
| Level 9 | IC 200-135180/14   | PF101218A14.d |

| ANALYTE                                                  | IS REF | CURVE TYPE | RESPONSE        |                 |                   |                   |        | CONCENTRATION (NG/ML) |                |                |                |       |
|----------------------------------------------------------|--------|------------|-----------------|-----------------|-------------------|-------------------|--------|-----------------------|----------------|----------------|----------------|-------|
|                                                          |        |            | LVL 1<br>LVL 6  | LVL 2<br>LVL 7  | LVL 3<br>LVL 8    | LVL 4<br>LVL 9    | LVL 5  | LVL 1<br>LVL 6        | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Perfluorobutanoic acid (PFBA)                            |        | AveID      | 7641<br>242827  | 15243<br>378404 | 41193<br>777358   | 89079<br>1465760  | 164764 | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluoropentanoic acid (PFPeA)                          |        | AveID      | 13403<br>376350 | 28231<br>664345 | 76614<br>1212879  | 148634<br>2213314 | 285631 | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorobutanesulfonic acid (PFBS)                      |        | AveID      | 4968<br>166809  | 14402<br>301253 | 32206<br>541095   | 68018<br>975188   | 119743 | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorohexanoic acid (PFHxA)                           |        | AveID      | 6651<br>185849  | 14125<br>312599 | 38900<br>545829   | 73899<br>939614   | 141128 | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluoroheptanoic acid (PFHpA)                          |        | AveID      | 17594<br>534319 | 37809<br>868054 | 96288<br>1661004  | 203128<br>2890882 | 383900 | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorohexanesulfonic acid (PFHxS)                     |        | AveID      | 8060<br>177638  | 13200<br>317155 | 37630<br>581843   | 68359<br>1055759  | 138464 | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           |        | AveID      | 888<br>15370    | 1427<br>26917   | 4036<br>54891     | 7209<br>103555    | 13015  | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorooctanoic acid (PFOA)                            |        | AveID      | 16087<br>459843 | 28522<br>712216 | 84299<br>1380218  | 173774<br>2400909 | 304556 | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluoroheptanesulfonic Acid (PFHpS)                    |        | AveID      | 2496<br>77500   | 4775<br>137152  | 14438<br>241637   | 29639<br>404561   | 58114  | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorononanoic acid (PFNA)                            |        | L1ID       | 34840<br>584725 | 47056<br>937170 | 116976<br>1792069 | 216975<br>3132708 | 403866 | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorooctanesulfonic acid (PFOS)                      |        | AveID      | 3414<br>84900   | 4987<br>157043  | 18336<br>276383   | 33150<br>524118   | 64638  | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           |        | AveID      | 3532<br>116513  | 5469<br>168509  | 18251<br>370420   | 33702<br>627946   | 74970  | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorodecanoic acid (PFDA)                            |        | L1ID       | 17143<br>624446 | 42987<br>994639 | 110535<br>1758138 | 232666<br>2996022 | 439490 | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) |        | AveID      | 5088<br>191315  | 10968<br>290551 | 31141<br>608648   | 66080<br>1195117  | 115470 | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |

FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 460-165769-1 Analy Batch No.: 135180

SDG No.: \_\_\_\_\_

Instrument ID: LC410 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2018 17:29 Calibration End Date: 10/12/2018 19:35 Calibration ID: 40207

| ANALYTE                                                 | IS REF     | CURVE TYPE | RESPONSE           |                  |                   |                   |         | CONCENTRATION (NG/ML) |                |                |                |       |
|---------------------------------------------------------|------------|------------|--------------------|------------------|-------------------|-------------------|---------|-----------------------|----------------|----------------|----------------|-------|
|                                                         |            |            | LVL 1<br>LVL 6     | LVL 2<br>LVL 7   | LVL 3<br>LVL 8    | LVL 4<br>LVL 9    | LVL 5   | LVL 1<br>LVL 6        | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) |            | AveID      | 4582<br>153237     | 8885<br>230444   | 28866<br>440133   | 55518<br>801193   | 99674   | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorodecanesulfonic acid (PFDS)                     |            | AveID      | 4103<br>89475      | 7052<br>164703   | 20467<br>293762   | 36672<br>508852   | 65822   | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluoroundecanoic acid (PFUnA)                        |            | AveID      | 22847<br>626445    | 43842<br>951152  | 117484<br>1709081 | 238453<br>2992927 | 413281  | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorooctanesulfonamide (PFOSA)                      |            | AveID      | 4819<br>124241     | 8685<br>228405   | 27312<br>398176   | 49870<br>690837   | 95600   | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorododecanoic acid (PFDoA)                        |            | AveID      | 23956<br>666685    | 37236<br>1061326 | 105787<br>2146001 | 249202<br>3973346 | 452483  | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorotridecanoic acid (PFTriA)                      |            | AveID      | 25807<br>414426    | 44973<br>1154202 | 123165<br>2336114 | 265870<br>4200128 | 496569  | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| Perfluorotetradecanoic acid (PFTeA)                     |            | AveID      | 23137<br>491369    | 52292<br>1167175 | 133907<br>2398753 | 267693<br>4459298 | 519661  | 1.00<br>30.0          | 2.00<br>50.0   | 5.00<br>100    | 10.0<br>200    | 20.0  |
| 13C4 PFBA                                               | 13PF<br>OA | Ave        | 379676<br>401136   | 439686<br>395747 | 473445<br>376989  | 468947<br>358113  | 452328  | 50.0<br>50.0          | 50.0<br>50.0   | 50.0<br>50.0   | 50.0<br>50.0   | 50.0  |
| 13C5 PFPeA                                              | 13PF<br>OA | Ave        | 104205<br>91003    | 119145<br>99663  | 123286<br>82821   | 108362<br>75338   | 97953   | 50.0<br>50.0          | 50.0<br>50.0   | 50.0<br>50.0   | 50.0<br>50.0   | 50.0  |
| 13C3 PFBS                                               | 13PF<br>OA | Ave        | 125100<br>117481   | 141121<br>148157 | 165445<br>116014  | 155639<br>110871  | 144139  | 46.5<br>46.5          | 46.5<br>46.5   | 46.5<br>46.5   | 46.5<br>46.5   | 46.5  |
| 13C2 PFHxA                                              | 13PF<br>OA | Ave        | 323190<br>299158   | 347121<br>291593 | 350151<br>253094  | 345816<br>216239  | 330579  | 50.0<br>50.0          | 50.0<br>50.0   | 50.0<br>50.0   | 50.0<br>50.0   | 50.0  |
| 13C4 PFHpA                                              | 13PF<br>OA | Ave        | 1004450<br>910430  | 883707<br>860587 | 934279<br>796857  | 1011639<br>728764 | 919641  | 50.0<br>50.0          | 50.0<br>50.0   | 50.0<br>50.0   | 50.0<br>50.0   | 50.0  |
| 18O2 PFHxS                                              | 13PF<br>OA | Ave        | 182130<br>148933   | 178546<br>167958 | 174546<br>144285  | 184818<br>138511  | 183361  | 47.3<br>47.3          | 47.3<br>47.3   | 47.3<br>47.3   | 47.3<br>47.3   | 47.3  |
| M2-6:2 FTS                                              | 13PF<br>OA | Ave        | 31222<br>30470     | 29484<br>29460   | 29997<br>27181    | 27297<br>32505    | 34833   | 47.5<br>47.5          | 47.5<br>47.5   | 47.5<br>47.5   | 47.5<br>47.5   | 47.5  |
| 13C4 PFOA                                               | 13PF<br>OA | Ave        | 829677<br>735752   | 705202<br>712269 | 751551<br>620972  | 812602<br>550756  | 756161  | 50.0<br>50.0          | 50.0<br>50.0   | 50.0<br>50.0   | 50.0<br>50.0   | 50.0  |
| 13C5 PFNA                                               | 13PF<br>OA | Ave        | 1006509<br>896869  | 933006<br>874059 | 992711<br>833954  | 1032379<br>739864 | 951488  | 50.0<br>50.0          | 50.0<br>50.0   | 50.0<br>50.0   | 50.0<br>50.0   | 50.0  |
| 13C4 PFOS                                               | 13PF<br>OA | Ave        | 145278<br>136716   | 146499<br>140981 | 156618<br>123911  | 153114<br>117785  | 151338  | 47.8<br>47.8          | 47.8<br>47.8   | 47.8<br>47.8   | 47.8<br>47.8   | 47.8  |
| M2-8:2 FTS                                              | 13PF<br>OA | Ave        | 247952<br>234540   | 196574<br>226275 | 231590<br>215575  | 250958<br>235654  | 237413  | 47.9<br>47.9          | 47.9<br>47.9   | 47.9<br>47.9   | 47.9<br>47.9   | 47.9  |
| 13C2 PFDA                                               | 13PF<br>OA | Ave        | 1173652<br>1066744 | 955503<br>975655 | 1103878<br>852349 | 1137033<br>772982 | 1049228 | 50.0<br>50.0          | 50.0<br>50.0   | 50.0<br>50.0   | 50.0<br>50.0   | 50.0  |
| d3-NMeFOSAA                                             | 13PF<br>OA | Ave        | 281817<br>300668   | 255071<br>266170 | 269182<br>298306  | 322500<br>260524  | 282205  | 50.0<br>50.0          | 50.0<br>50.0   | 50.0<br>50.0   | 50.0<br>50.0   | 50.0  |
| d5-NEtFOSAA                                             | 13PF<br>OA | Ave        | 272751<br>248545   | 246369<br>228581 | 247506<br>229769  | 276737<br>204310  | 259191  | 50.0<br>50.0          | 50.0<br>50.0   | 50.0<br>50.0   | 50.0<br>50.0   | 50.0  |

FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 460-165769-1 Analy Batch No.: 135180

SDG No.: \_\_\_\_\_

Instrument ID: LC410 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2018 17:29 Calibration End Date: 10/12/2018 19:35 Calibration ID: 40207

| ANALYTE     | IS<br>REF  | CURVE<br>TYPE | RESPONSE       |                |                |                |         | CONCENTRATION (NG/ML) |                |                |                |       |
|-------------|------------|---------------|----------------|----------------|----------------|----------------|---------|-----------------------|----------------|----------------|----------------|-------|
|             |            |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5   | LVL 1<br>LVL 6        | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 13C2 PFUnA  | 13PF<br>OA | Ave           | 1352219        | 1151317        | 1177783        | 1354136        | 1205893 | 50.0                  | 50.0           | 50.0           | 50.0           | 50.0  |
|             |            |               | 1233174        | 1086377        | 1018147        | 850165         |         | 50.0                  | 50.0           | 50.0           | 50.0           |       |
| 13C8 FOA    | 13PF<br>OA | Ave           | 313579         | 274678         | 287132         | 282546         | 291513  | 50.0                  | 50.0           | 50.0           | 50.0           | 50.0  |
|             |            |               | 230250         | 250535         | 244335         | 195715         |         | 50.0                  | 50.0           | 50.0           | 50.0           |       |
| 13C2 PFDoA  | 13PF<br>OA | Ave           | 1315876        | 1163362        | 1252345        | 1405280        | 1264630 | 50.0                  | 50.0           | 50.0           | 50.0           | 50.0  |
|             |            |               | 1316245        | 1248885        | 1217716        | 1137773        |         | 50.0                  | 50.0           | 50.0           | 50.0           |       |
| 13C2 PFTeDA | 13PF<br>OA | Ave           | 1363059        | 1192782        | 1245930        | 1373240        | 1281287 | 50.0                  | 50.0           | 50.0           | 50.0           | 50.0  |
|             |            |               | 910155         | 1189685        | 1241684        | 1178361        |         | 50.0                  | 50.0           | 50.0           | 50.0           |       |

Curve Type Legend:

Ave = Average ISTD  
AveID = Average isotope dilution  
L1ID = Linear 1/conc IsoDil

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 12-Oct-2018 17:29:11 ALS Bottle#: 0 Worklist Smp#: 6  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-006 IC 1  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:23:16 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 12-Oct-2018 21:38:20

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| 2 Perfluorobutanoic acid              |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                         | 2.343 | 2.343  | 0.0    | 1.000  | 7641     | 1.05         |               | 105  | 18.9 | M     |
| D 1 13C4 PFBA                         |       |        |        |        |          |              |               |      |      | M     |
| 216.9 > 171.5                         | 2.343 | 2.343  | 0.0    | 1.000  | 379676   | 39.9         |               | 79.7 | 430  | M     |
| D 3 13C5 PFPeA                        |       |        |        |        |          |              |               |      |      |       |
| 267.7 > 222.6                         | 2.760 | 2.763  | -0.003 | 1.000  | 104205   | 45.6         |               | 91.2 | 198  |       |
| 4 Perfluoropentanoic acid             |       |        |        |        |          |              |               |      |      | M     |
| 262.9 > 218.8                         | 2.770 | 2.764  | 0.006  | 1.004  | 13403    | 0.9497       |               | 95.0 | 70.2 | M     |
| D 6 13C3 PFBS                         |       |        |        |        |          |              |               |      |      | M     |
| 302.0 > 79.8                          | 2.818 | 2.829  | -0.011 | 1.000  | 125100   | 37.4         |               | 80.5 | 194  | M     |
| 5 Perfluorobutanesulfonic acid        |       |        |        |        |          |              |               |      |      | M     |
| 298.9 > 80.0                          | 2.818 | 2.831  | -0.013 | 1.000  | 4968     | 0.9082       |               | 90.8 | 24.3 | M     |
| D 7 13C2 PFHxA                        |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                         | 3.189 | 3.188  | 0.001  | 1.000  | 323190   | 46.5         |               | 92.9 | 1973 |       |
| 8 Perfluorohexanoic acid              |       |        |        |        |          |              |               |      |      | M     |
| 312.8 > 268.6                         | 3.177 | 3.189  | -0.012 | 0.996  | 6651     | 0.9682       |               | 96.8 | 77.4 | M     |
| 12 Perfluorohexanesulfonic acid       |       |        |        |        |          |              |               |      |      | M     |
| 399.0 > 80.0                          | 3.770 | 3.770  | 0.0    | 1.000  | 8060     | 1.12         |               | 112  | 62.2 | M     |
| D 9 13C4 PFHpA                        |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                         | 3.726 | 3.725  | 0.001  | 1.000  | 1004450  | 49.3         |               | 98.6 | 882  |       |
| 10 Perfluoroheptanoic acid            |       |        |        |        |          |              |               |      |      | M     |
| 362.9 > 318.8                         | 3.726 | 3.729  | -0.003 | 1.000  | 17594    | 0.8715       |               | 87.2 | 111  | M     |
| D 11 18O2 PFHxS                       |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                          | 3.770 | 3.770  | 0.0    | 1.000  | 182130   | 45.2         |               | 95.6 | 759  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |        |        |        |          |              |               |      |      | M     |
| 426.6 > 406.6                         | 4.355 | 4.355  | 0.0    | 1.000  | 888      | 1.31         |               | 131  | 5.2  | M     |
| D 13 M2-6:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                         | 4.355 | 4.353  | 0.002  | 1.000  | 21222    | 42.5         |               | 89.4 | 140  |       |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| * 15 13C2 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                         | 4.411 | 4.401  | 0.010  |        | 883075   | 50.0         |               |      | 4088 |       |
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                         | 4.411 | 4.407  | 0.004  | 1.000  | 829677   | 50.8         |               | 102  | 4253 |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 412.9 > 368.8                         | 4.411 | 4.409  | 0.002  | 1.000  | 16087    | 0.9261       |               | 92.6 | 201  |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |      |      |       |
| 448.8 > 79.8                          | 4.430 | 4.440  | -0.010 | 0.853  | 2496     | 0.9343       |               | 93.4 | 23.7 | M     |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 498.8 > 79.8                          | 5.222 | 5.222  | 0.0    | 1.005  | 3414     | 1.09         |               | 109  | 25.2 | M     |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |      |      |       |
| 467.8 > 422.8                         | 5.168 | 5.171  | -0.003 | 1.000  | 1006509  | 48.1         |               | 96.3 | 797  |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 462.8 > 418.8                         | 5.168 | 5.175  | -0.007 | 1.000  | 34840    | 1.12         |               | 112  | 160  |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |      |      |       |
| 502.8 > 79.8                          | 5.195 | 5.195  | 0.0    | 1.000  | 145278   | 43.0         |               | 90.0 | 529  |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 512.9 > 468.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 17143    | 0.7573       |               | 75.7 | 59.7 | M     |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 528.8 > 508.8                         | 5.926 | 5.929  | -0.003 | 1.000  | 247952   | 44.9         |               | 93.7 | 687  |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 526.8 > 506.5                         | 5.950 | 5.932  | 0.018  | 1.004  | 3532     | 0.9490       |               | 94.9 | 24.5 | M     |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |      |      |       |
| 514.9 > 469.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 1173652  | 51.2         |               | 102  | 3940 |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |      |      |       |
| 569.8 > 418.8                         | 6.313 | 6.313  | 0.0    | 1.000  | 5088     | 0.8551       |               | 85.5 | 19.3 | M     |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 572.8 > 418.8                         | 6.313 | 6.311  | 0.002  | 1.000  | 281817   | 43.6         |               | 87.3 | 1299 |       |
| 31 Perfluorodecanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 598.8 > 79.8                          | 6.688 | 6.688  | 0.0    | 1.287  | 4103     | 1.18         |               | 118  | 55.3 |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |      |      |       |
| 583.9 > 418.8                         | 6.706 | 6.706  | 0.0    | 1.005  | 4582     | 0.8546       |               | 85.5 | 48.8 | M     |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 588.9 > 418.8                         | 6.670 | 6.674  | -0.004 | 1.000  | 272751   | 48.6         |               | 97.3 | 1604 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 562.8 > 518.6                         | 6.720 | 6.720  | 0.0    | 1.000  | 22847    | 0.9536       |               | 95.4 | 100  |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |               |      |      |       |
| 497.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 4819     | 0.8957       |               | 89.6 | 45.4 | M     |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |      |      |       |
| 564.8 > 519.8                         | 6.720 | 6.720  | 0.0    | 1.000  | 1352219  | 51.5         |               | 103  | 7216 |       |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |      |      |       |
| 505.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 313579   | 52.3         |               | 105  | 1699 |       |
| D 37 13C2 PFDoA                       |       |        |        |        |          |              |               |      |      |       |
| 614.8 > 569.6                         | 7.384 | 7.402  | -0.018 | 1.000  | 1315876  | 45.7         |               | 91.4 | 4842 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 612.8 > 568.6                         | 7.407 | 7.407  | 0.0    | 1.003  | 23956    | 1.05         |               | 105  | 170  |       |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |      |      |       |
| 662.8 > 618.6                         | 8.021 | 8.021  | 0.0    | 0.937  | 25807    | 1.02         |               | 102  | 183  |       |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      |       |
| 712.8 > 668.6                  | 8.575 | 8.575     | 0.0       | 1.002     | 23137    | 0.8679          |                 | 86.8 | 134  |       |
| 712.8 > 168.8                  | 8.575 | 8.575     | 0.0       | 1.002     | 6791     |                 | 3.41(0.00-0.00) | 86.8 | 31.2 |       |
| 712.8 > 218.8                  | 8.545 | 8.575     | -0.030    | 0.998     | 2436     |                 | 9.50(0.00-0.00) | 86.8 | 14.9 |       |
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.560 | 8.563     | -0.003    | 1.000     | 1363059  | 48.7            |                 | 97.4 | 1281 |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L1\_00003

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A06.d

Injection Date: 12-Oct-2018 17:29:11

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

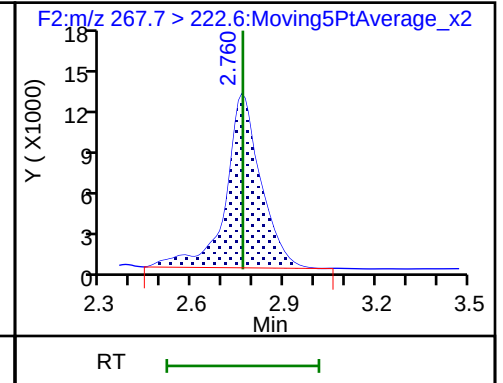
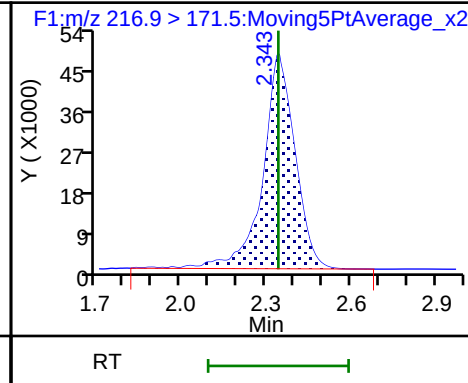
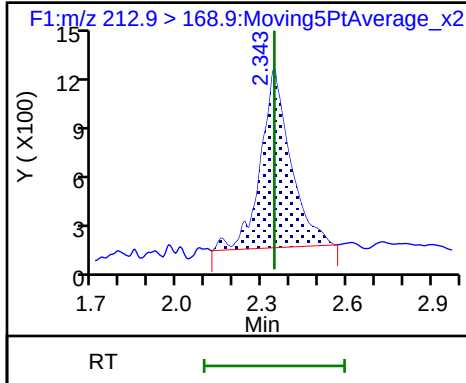
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

2 Perfluorobutanoic acid (M)

D 1 13C4 PFBA (M)

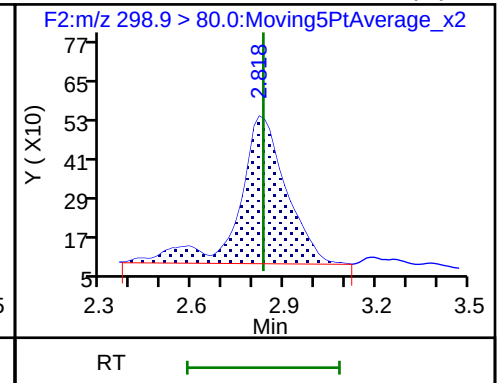
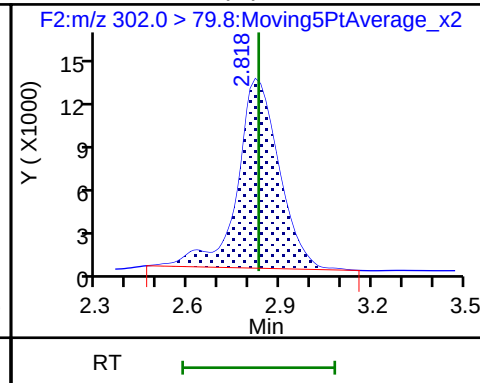
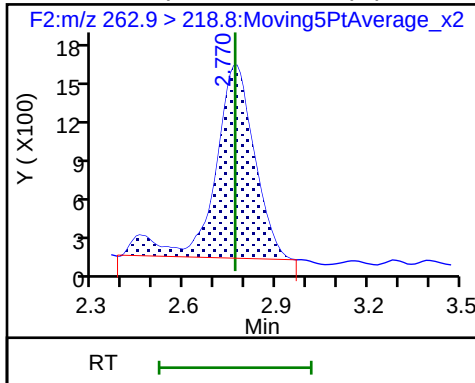
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS (M)

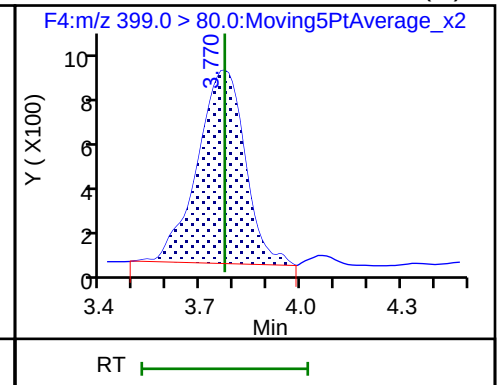
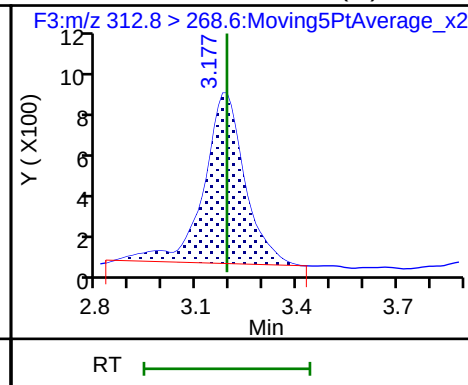
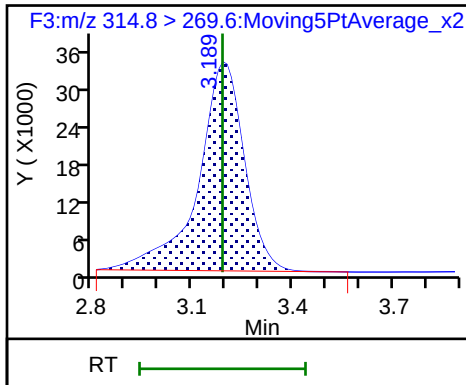
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid (M)

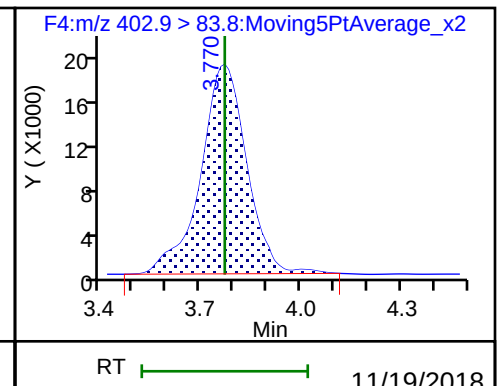
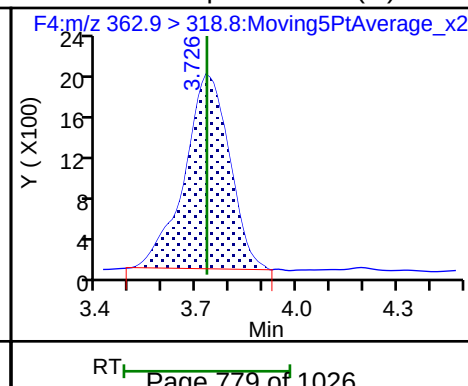
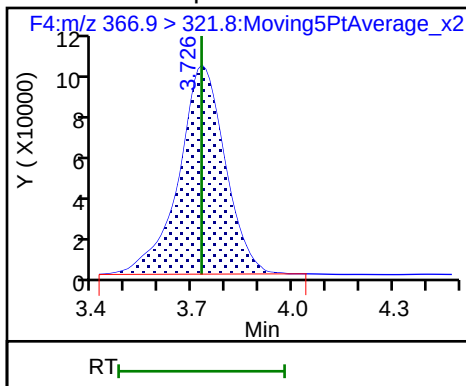
12 Perfluorohexanesulfonic acid (M)



D 9 13C4 PFHpA

10 Perfluoroheptanoic acid (M)

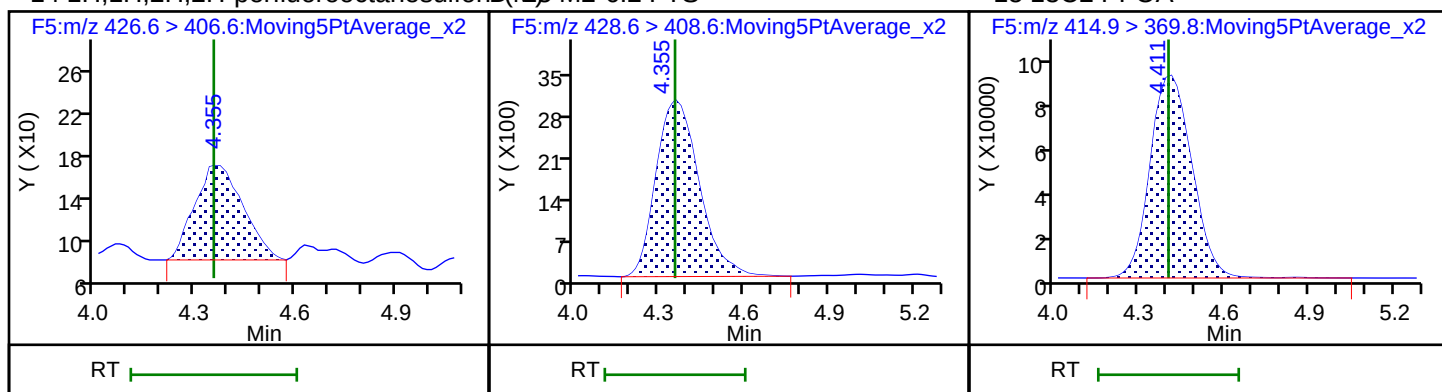
D 11 18O2 PFHxS





14 1H,1H,2H,2H-perfluorooctanesulfonate (M) M2-6:2 FTS

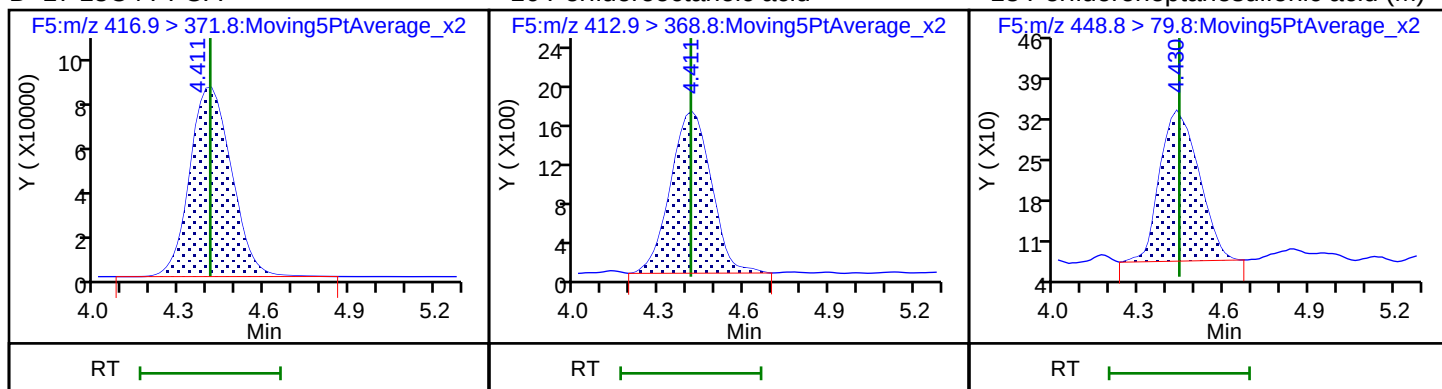
\* 15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

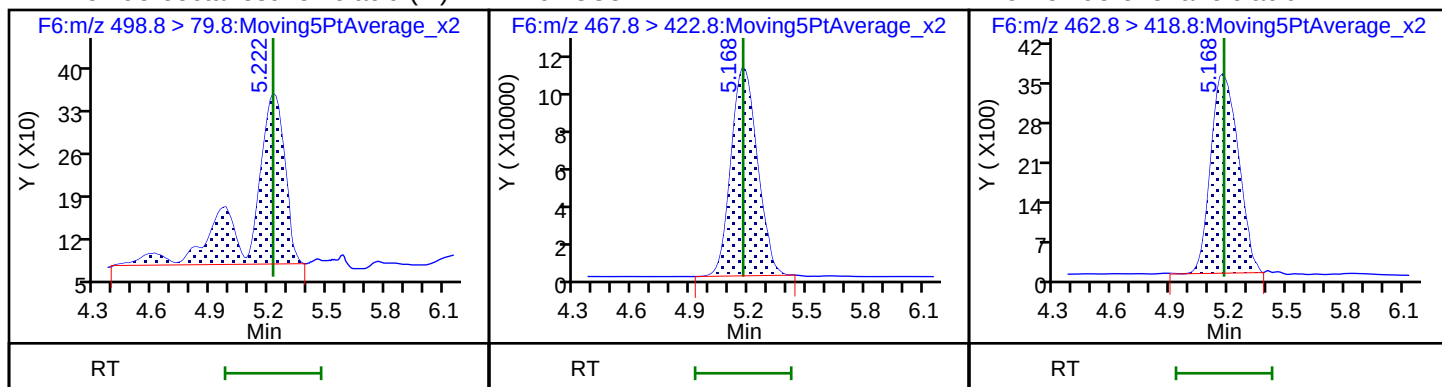
18 Perfluoroheptanesulfonic acid (M)



21 Perfluorooctanesulfonic acid (M)

D 20 13C5 PFNA

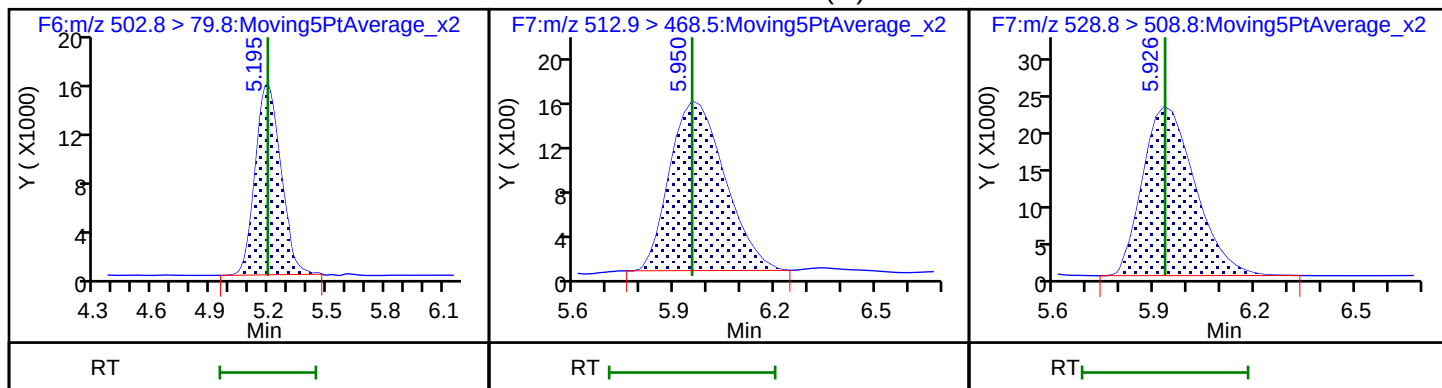
19 Perfluorononanoic acid



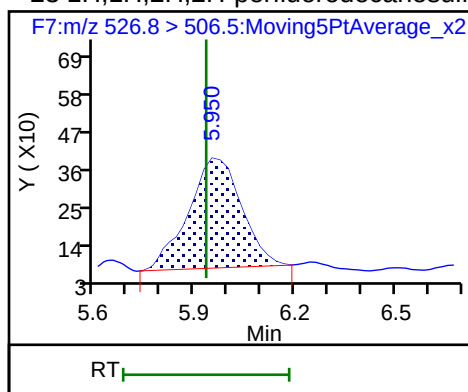
D 22 13C4 PFOS

25 Perfluorodecanoic acid (M)

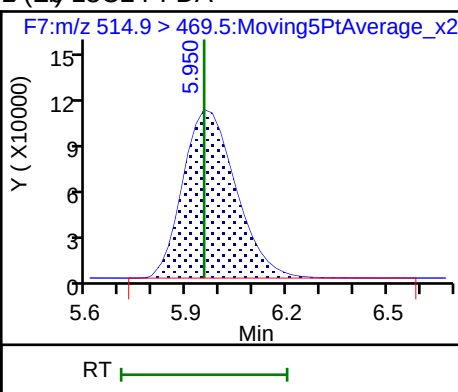
D 24 M2-8:2 FTS



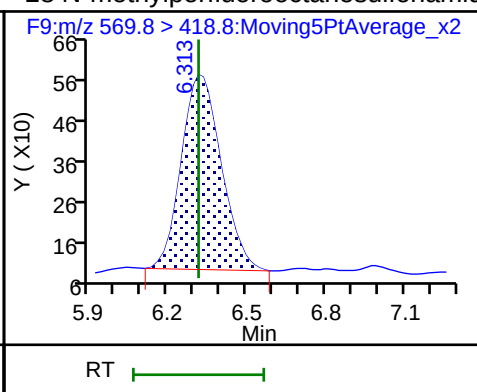
## 23 1H,1H,2H,2H-perfluorodecanesulfonamide (M)



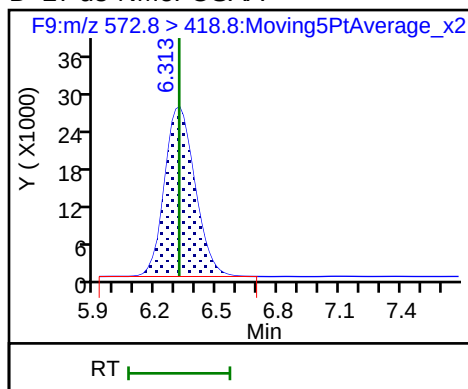
## 26 13C2 PFDA



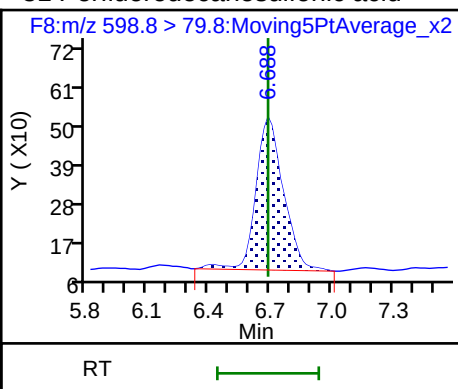
## 28 N-methylperfluorooctanesulfonamide (M)



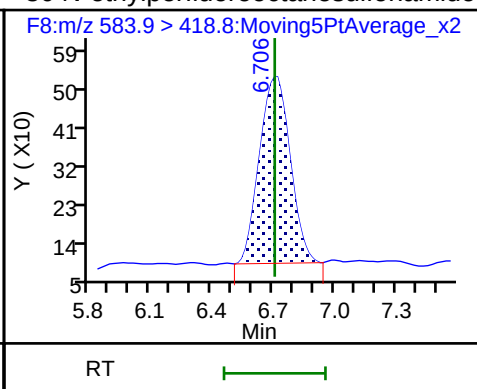
## D 27 d3-NMeFOSAA



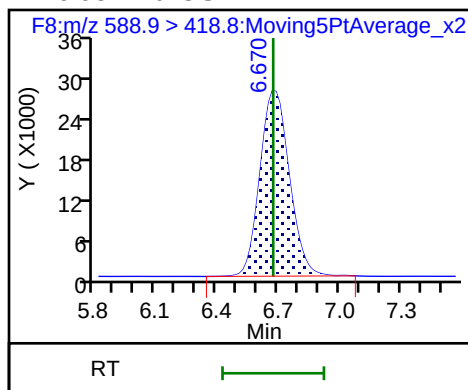
## 31 Perfluorodecanesulfonic acid



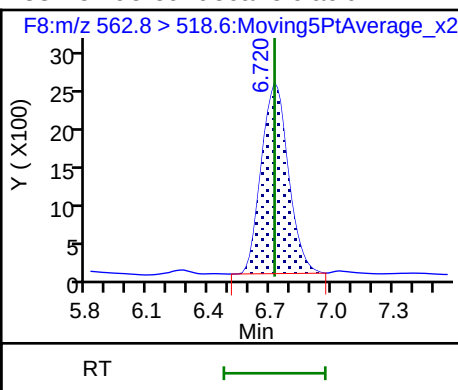
## 30 N-ethylperfluorooctanesulfonamide (M)



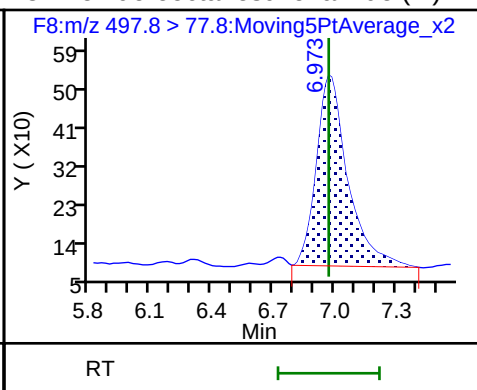
## D 29 d5-NEtFOSAA



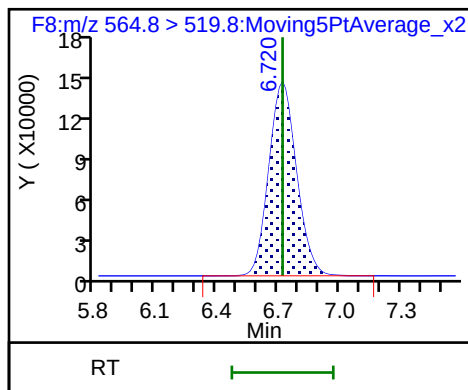
## 33 Perfluoroundecanoic acid



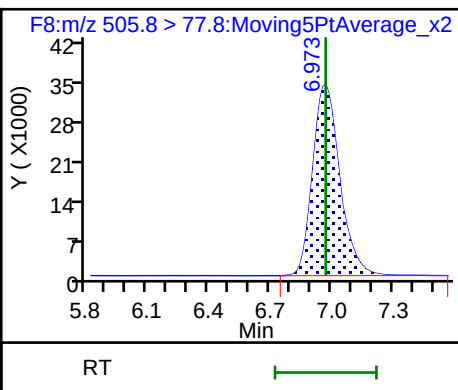
## 34 Perfluorooctanesulfonamide (M)



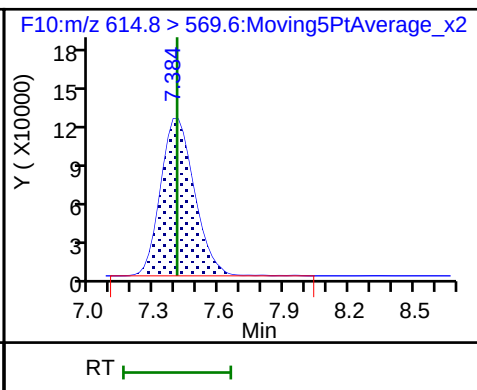
## D 32 13C2 PFUnA



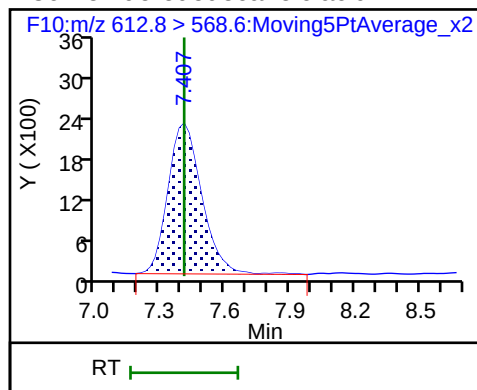
## D 35 13C8 FOSA



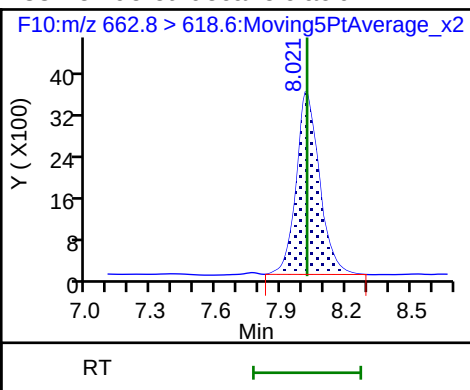
## D 37 13C2 PFDaA



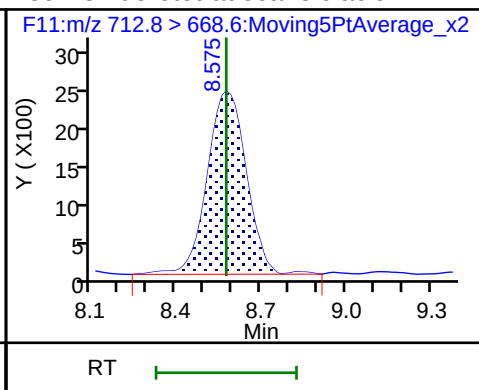
36 Perfluorododecanoic acid



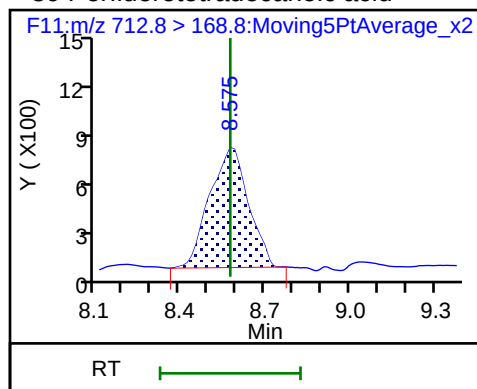
38 Perfluorotridecanoic acid



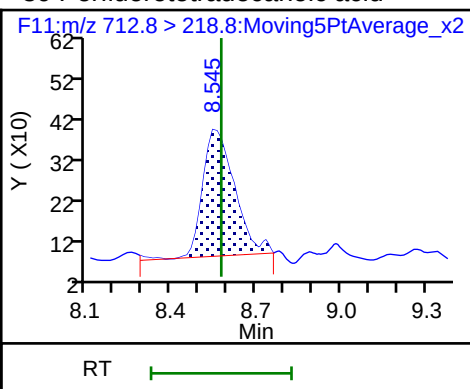
39 Perfluorotetradecanoic acid



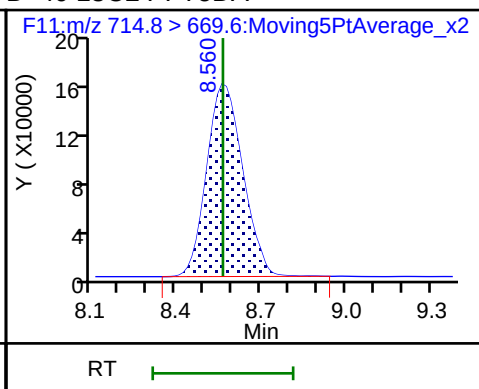
39 Perfluorotetradecanoic acid



39 Perfluorotetradecanoic acid



D 40 13C2 PFTeDA



## TestAmerica Burlington

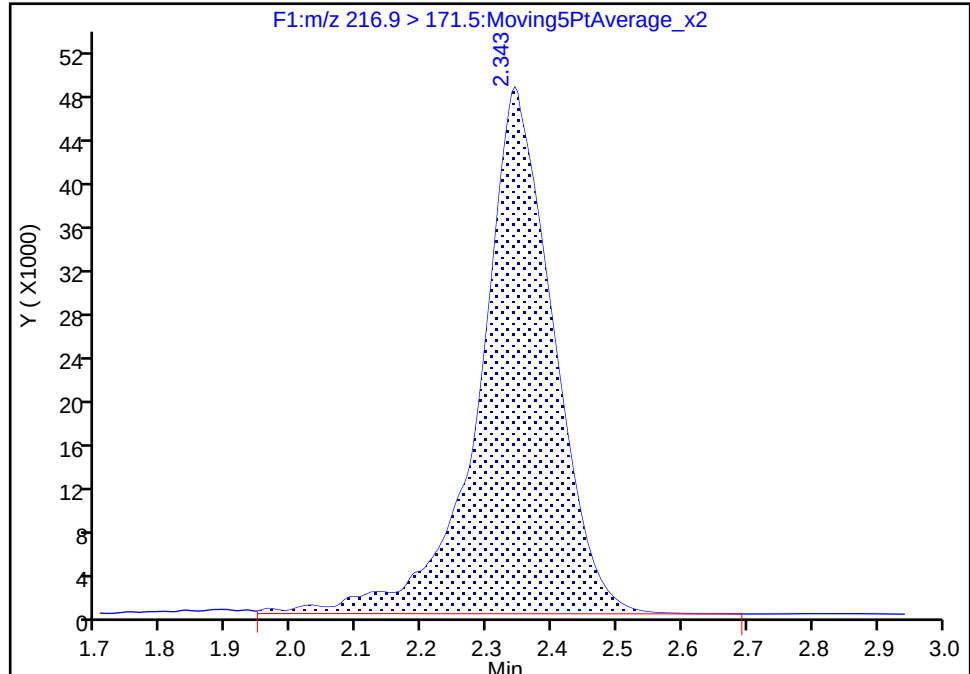
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Injection Date: 12-Oct-2018 17:29:11 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**D 1 13C4 PFBA, CAS: STL00992**

Signal: 1

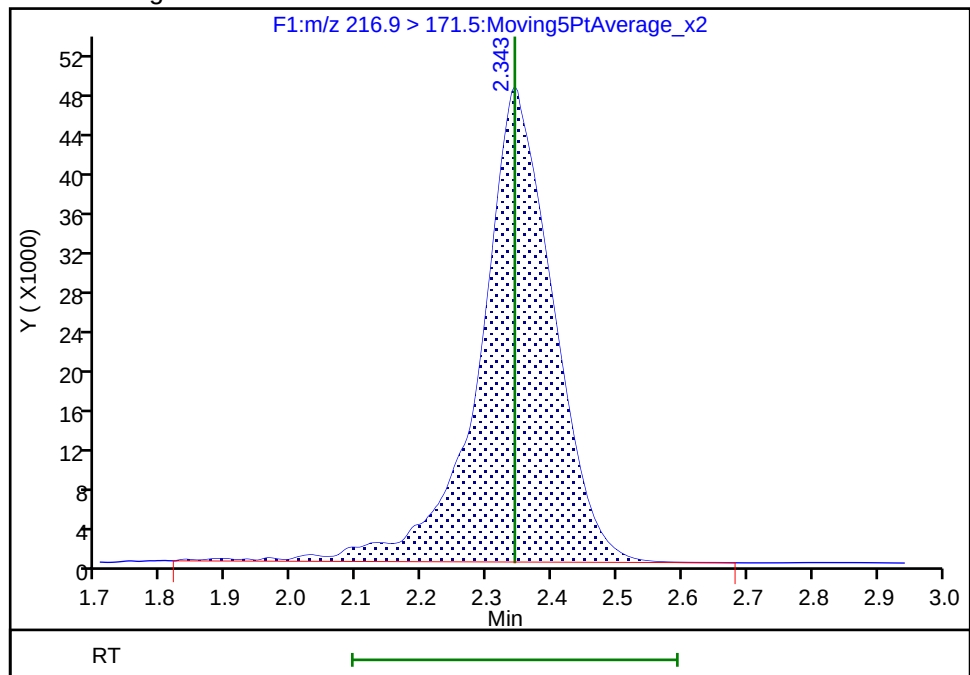
RT: 2.34  
Area: 381744  
Amount: 43.337524  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.34  
Area: 379676  
Amount: 39.874287  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:36:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

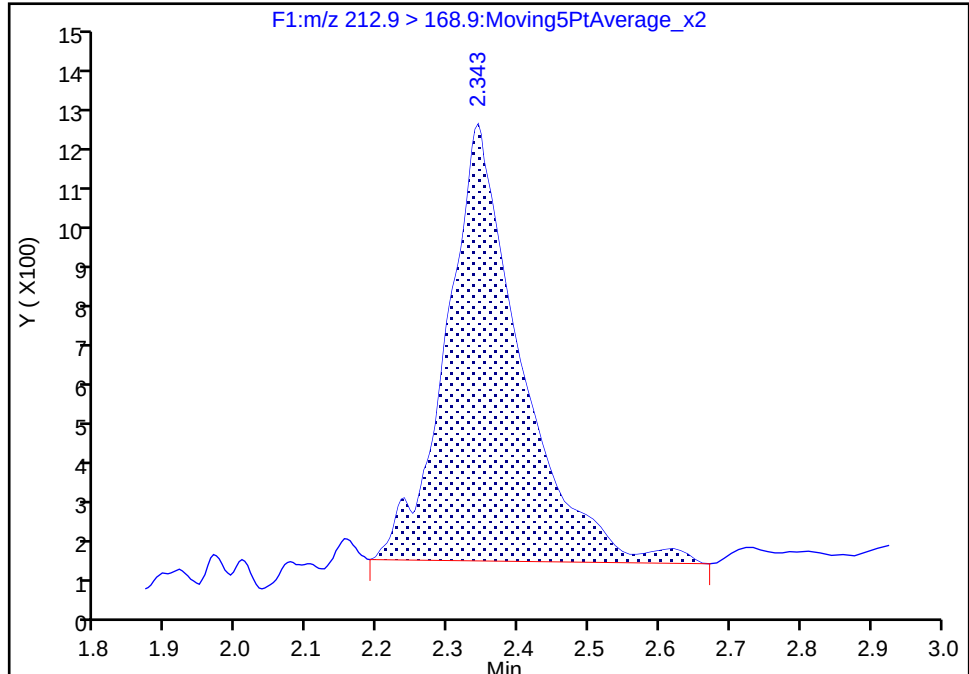
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Injection Date: 12-Oct-2018 17:29:11 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

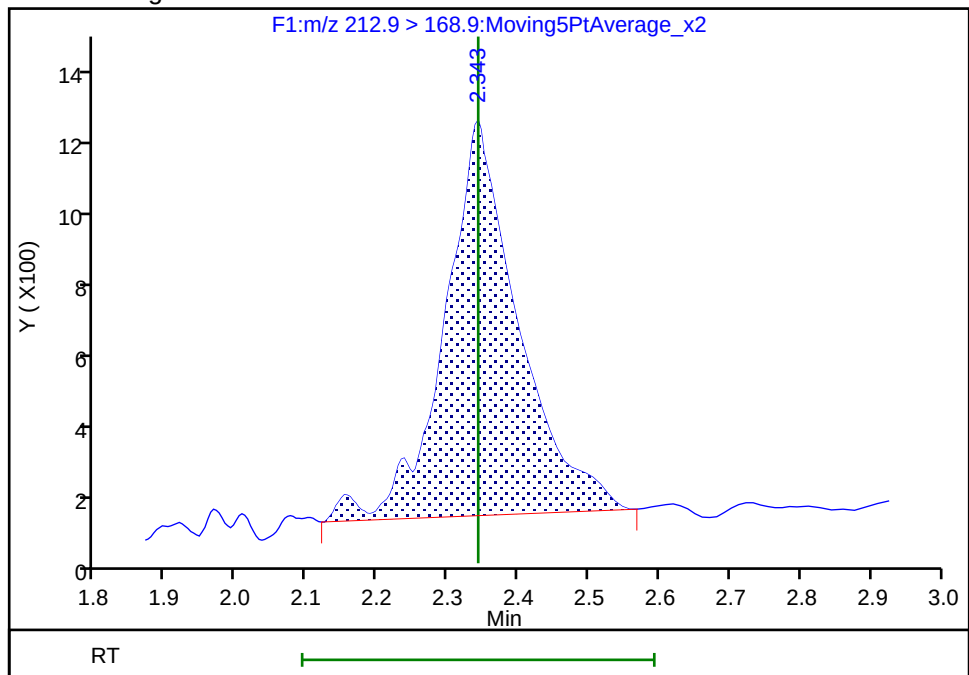
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Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.34  
Area: 7641  
Amount: 1.050272  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:24:21  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

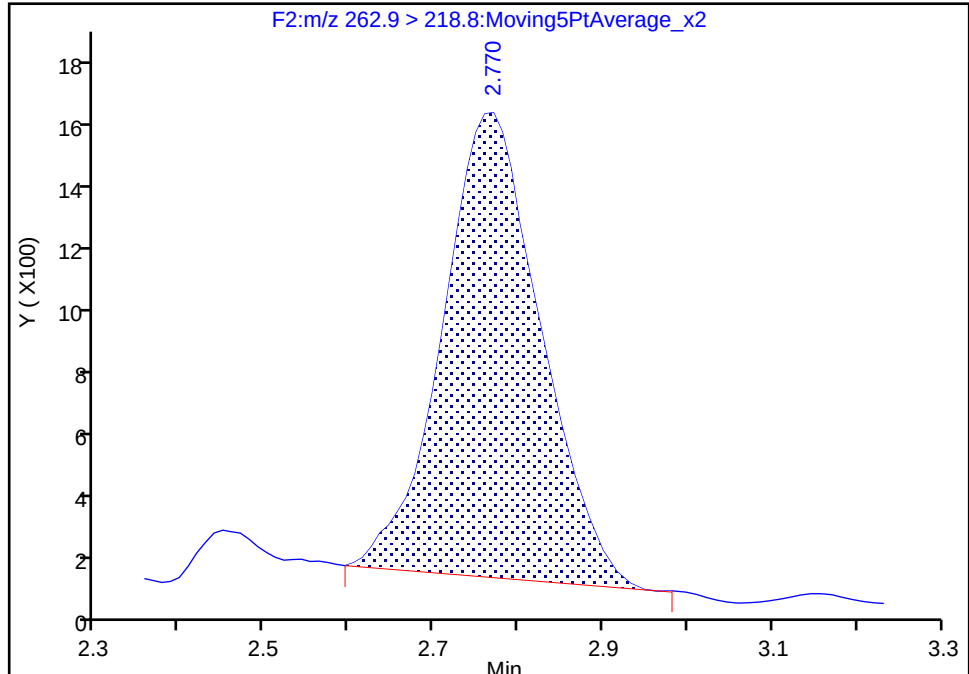
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Injection Date: 12-Oct-2018 17:29:11 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

Signal: 1

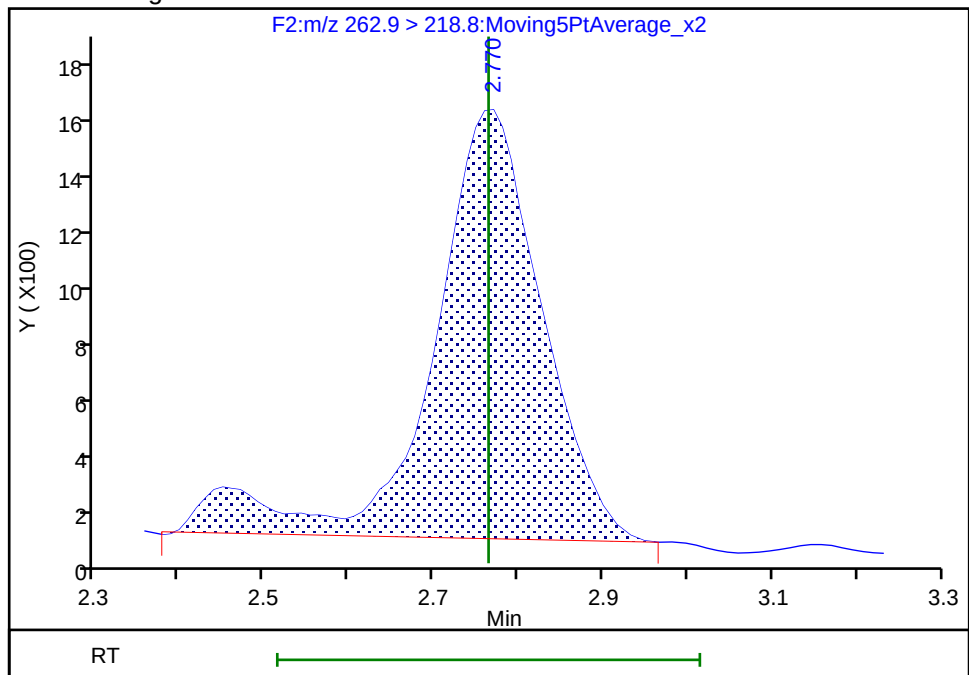
RT: 2.77  
Area: 11674  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.77  
Area: 13403  
Amount: 0.949738  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:36:19  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d

Injection Date: 12-Oct-2018 17:29:11

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

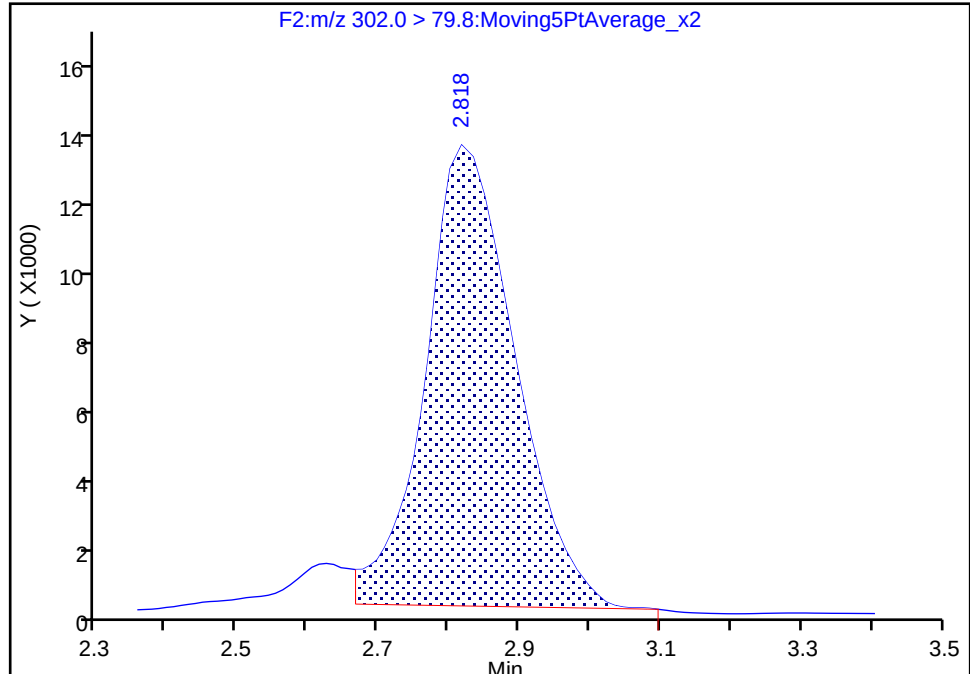
Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

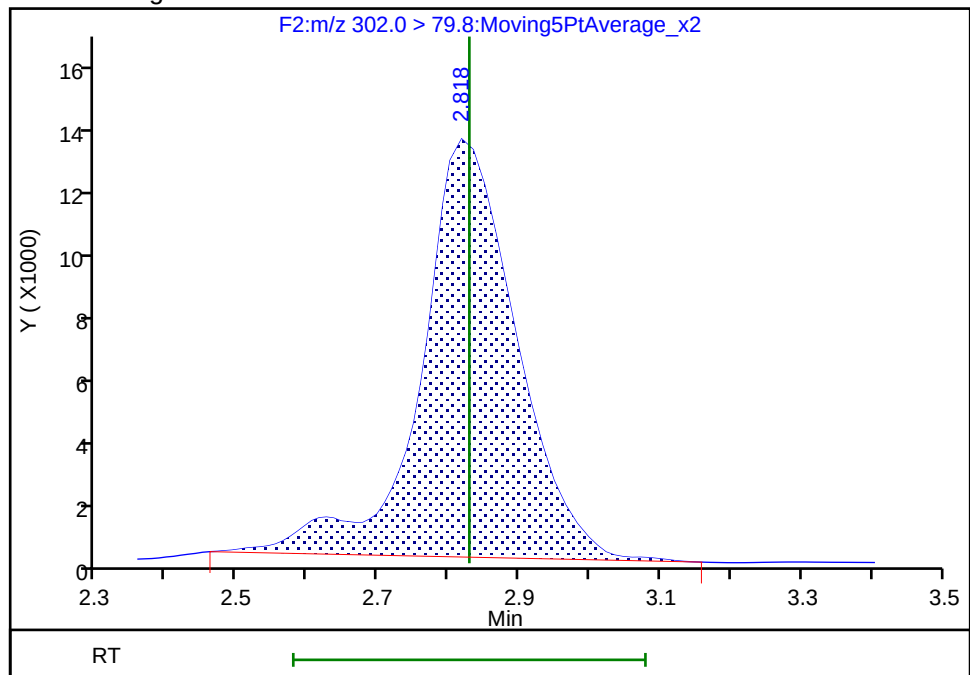
RT: 2.82  
Area: 116993  
Amount: 39.415517  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.82  
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Amount: 37.433610  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:36:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

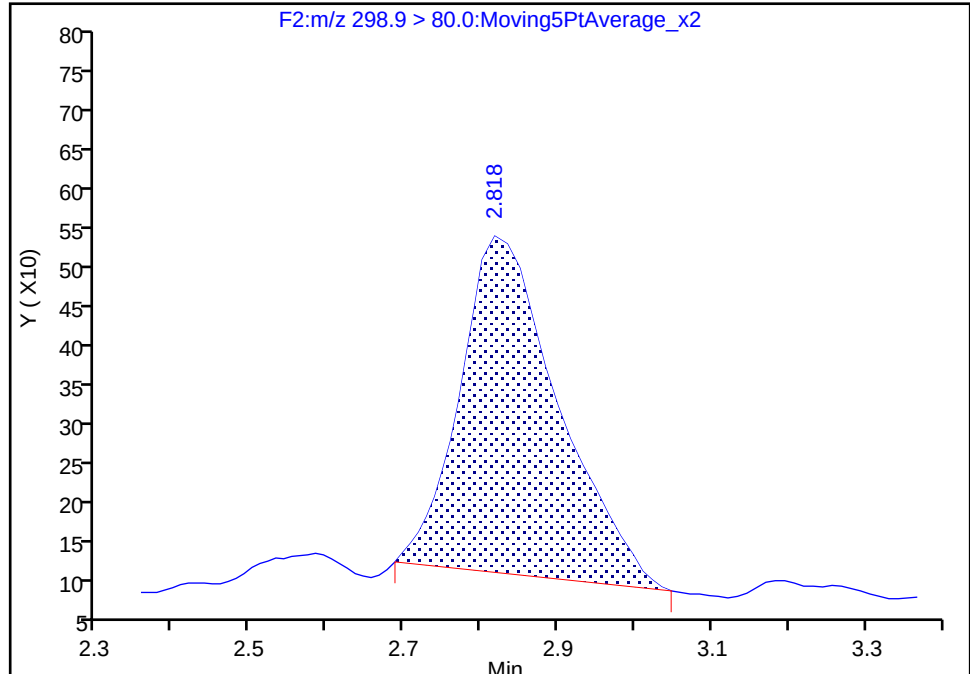
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|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d |                |             |
| Injection Date: | 12-Oct-2018 17:29:11                                                | Instrument ID: | LC410       |
| Lims ID:        | IC                                                                  |                |             |
| Client ID:      |                                                                     |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector:      | F2:MRM      |
|                 |                                                                     | Worklist Smp#: | 6           |

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

Signal: 1

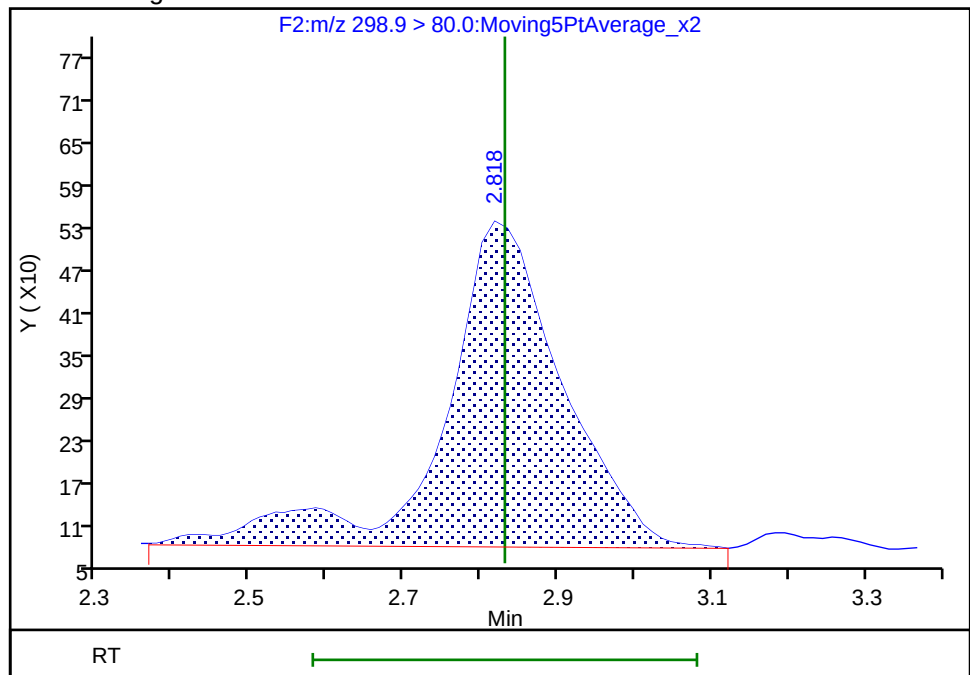
RT: 2.82  
Area: 3831  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.82  
Area: 4968  
Amount: 0.908223  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:36:29  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

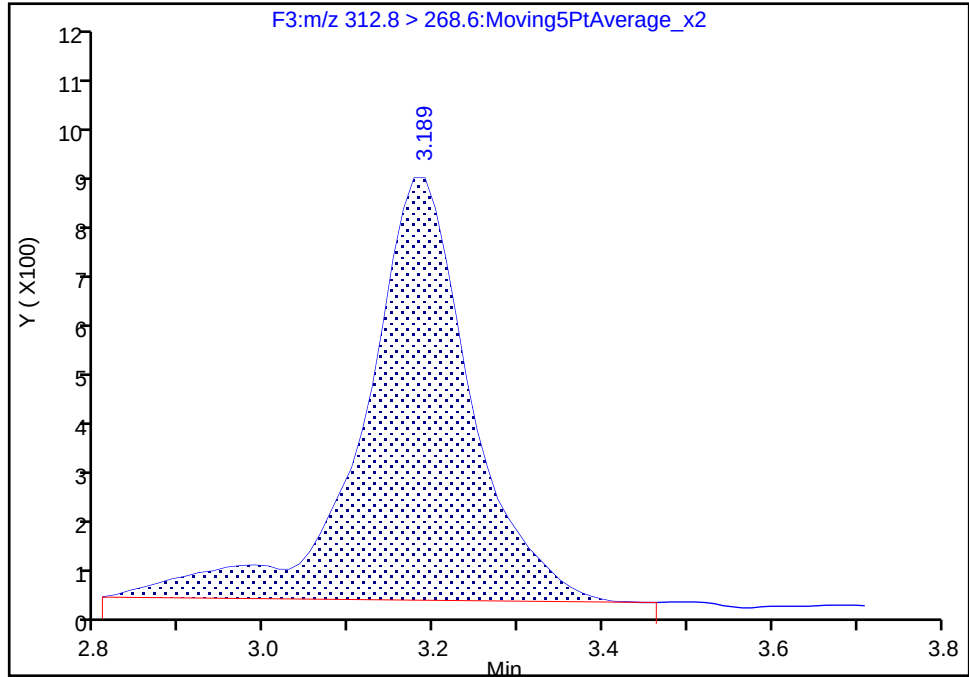
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d  
Injection Date: 12-Oct-2018 17:29:11 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F3:MRM

**8 Perfluorohexanoic acid, CAS: 307-24-4**

Signal: 1

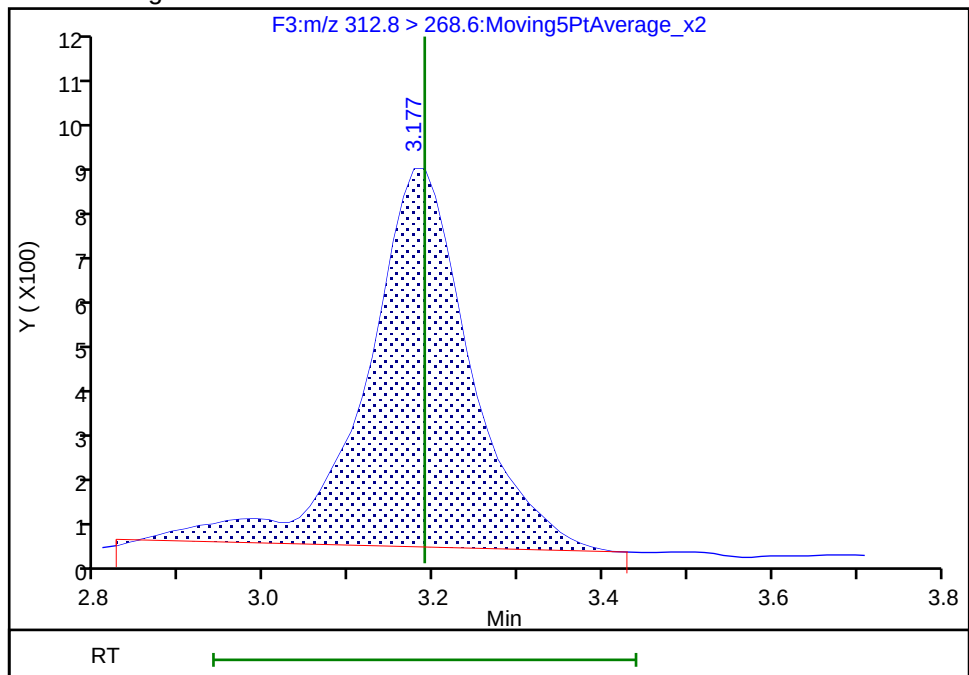
RT: 3.19  
Area: 6951  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.18  
Area: 6651  
Amount: 0.968178  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:36:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

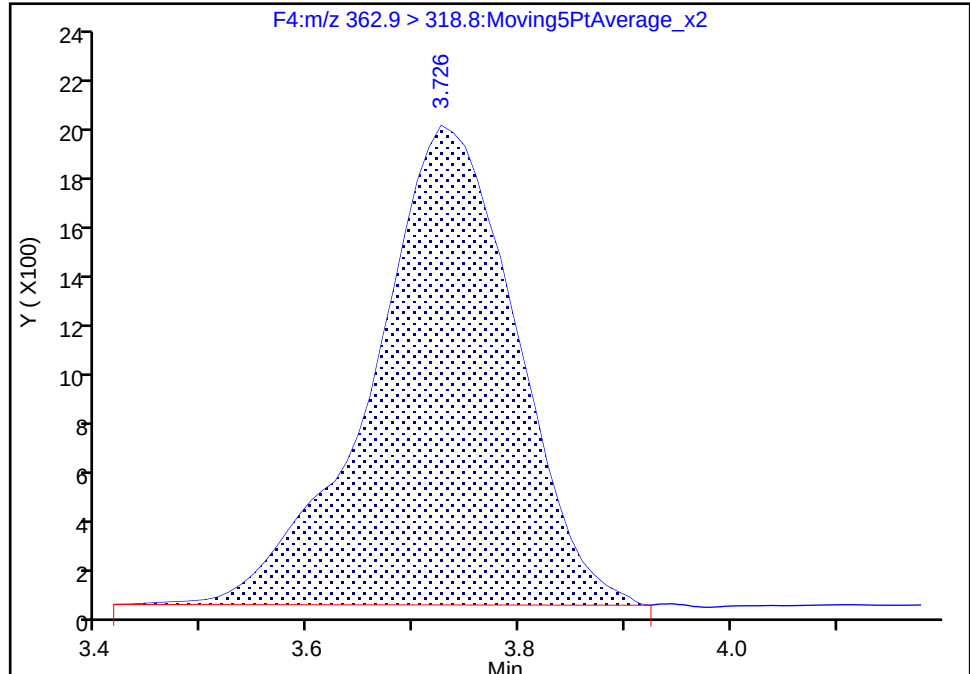
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d |                |             |
| Injection Date: | 12-Oct-2018 17:29:11                                                | Instrument ID: | LC410       |
| Lims ID:        | IC                                                                  |                |             |
| Client ID:      |                                                                     |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector       | F4:MRM      |
|                 |                                                                     | Worklist Smp#: | 6           |

**10 Perfluoroheptanoic acid, CAS: 375-85-9**

Signal: 1

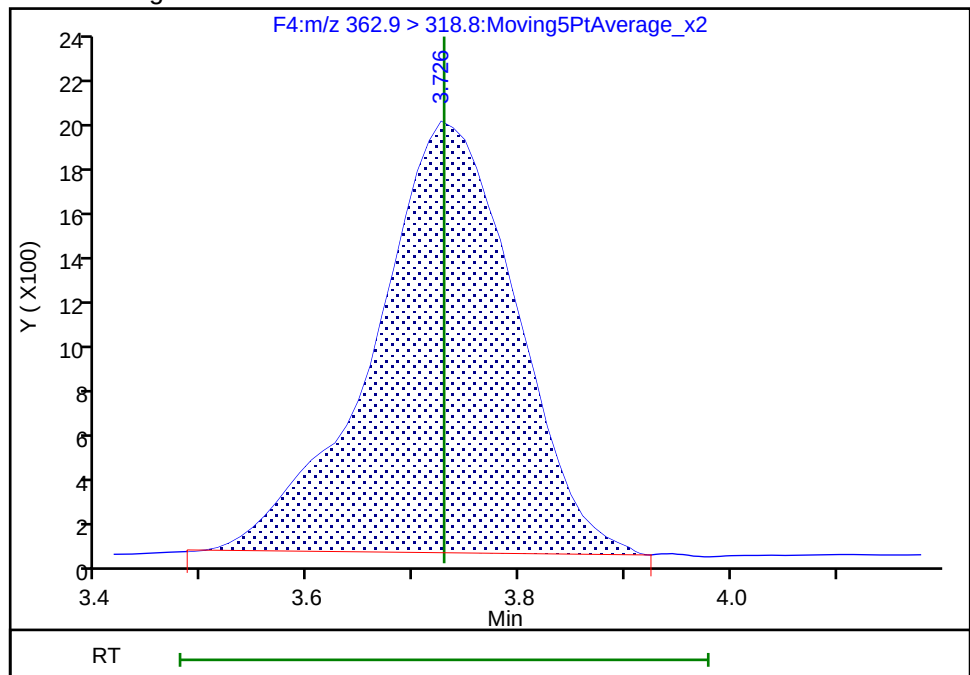
RT: 3.73  
Area: 17864  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.73  
Area: 17594  
Amount: 0.871508  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:36:40  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

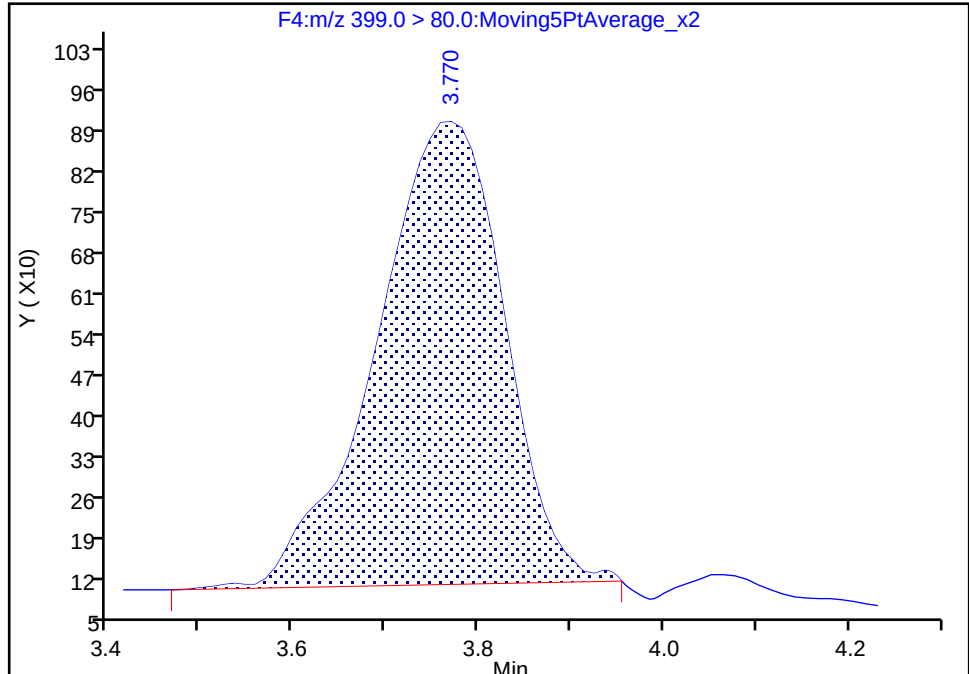
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d  
Injection Date: 12-Oct-2018 17:29:11 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F4:MRM

**12 Perfluorohexanesulfonic acid, CAS: 355-46-4**

Signal: 1

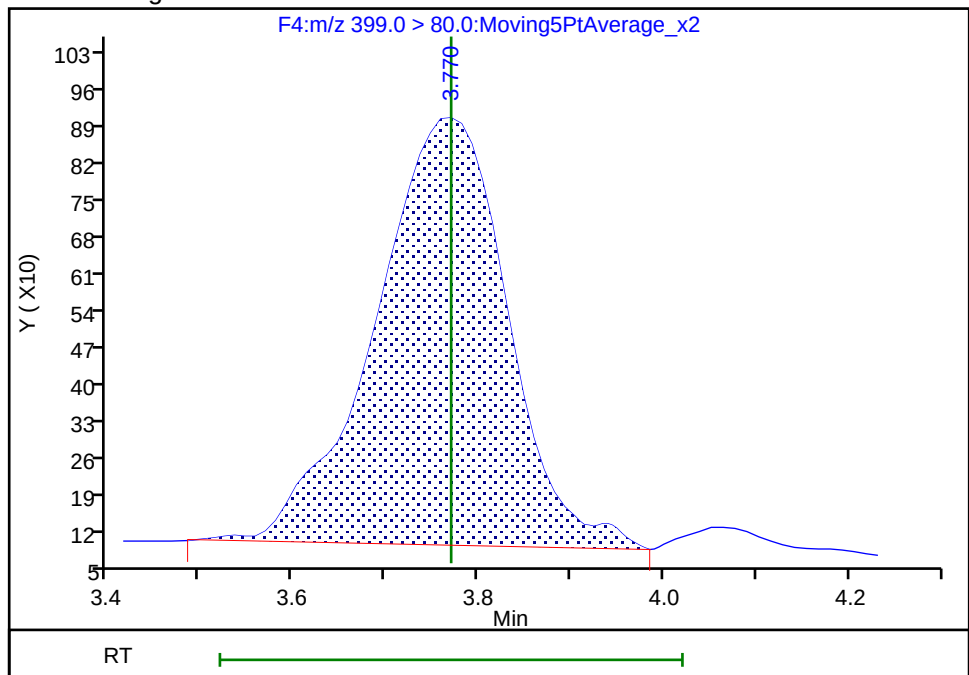
RT: 3.77  
Area: 7649  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.77  
Area: 8060  
Amount: 1.121802  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:36:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d

Injection Date: 12-Oct-2018 17:29:11

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

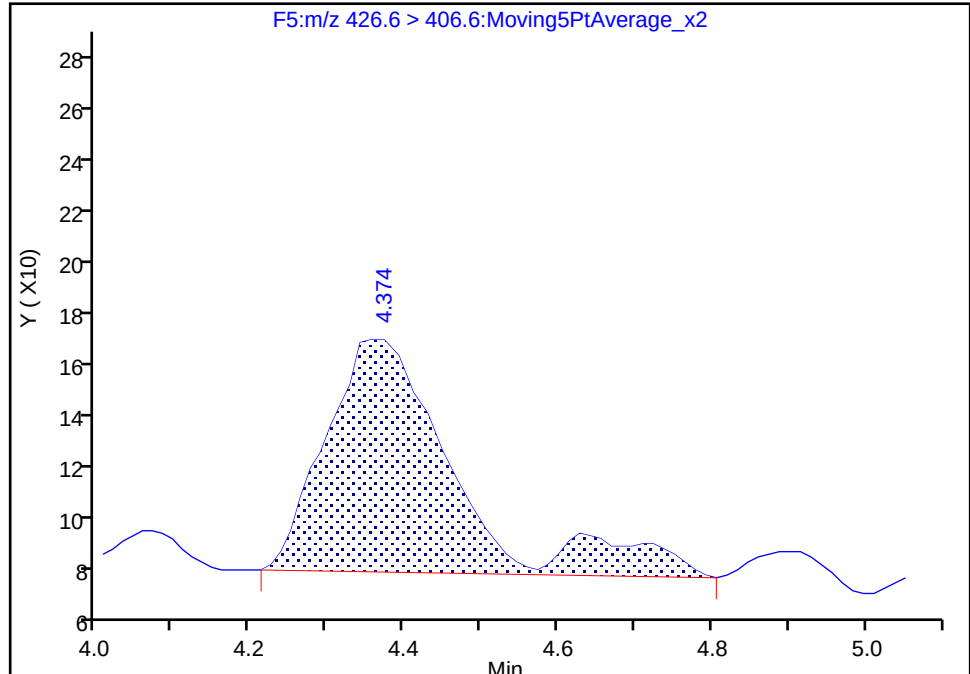
Detector F5:MRM

**14 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:, CAS: 27619-97-2**

Signal: 1

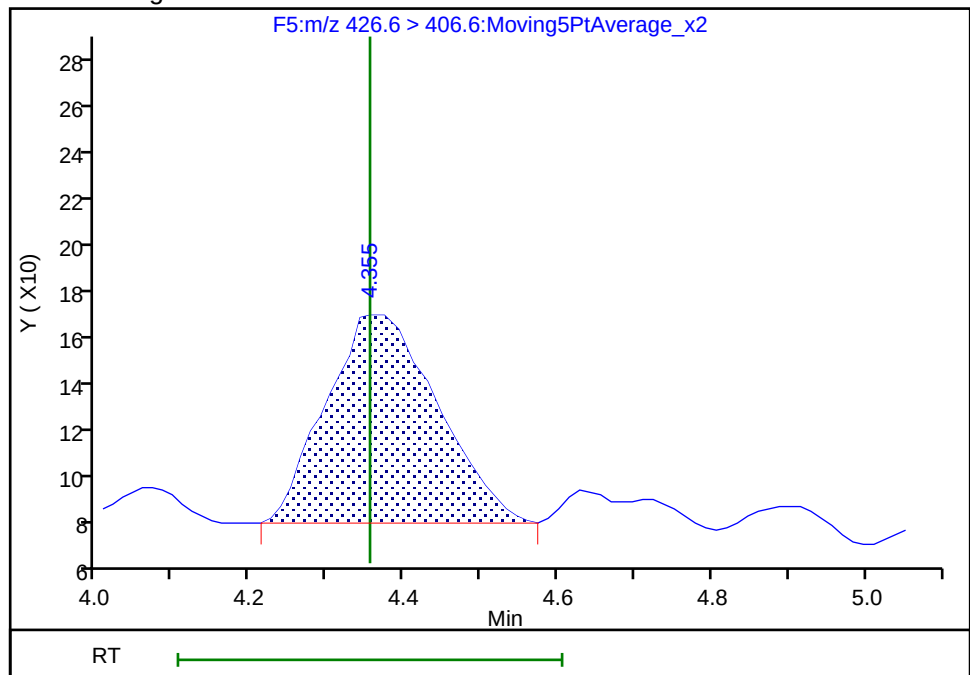
RT: 4.37  
Area: 1039  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.36  
Area: 888  
Amount: 1.306963  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:36:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

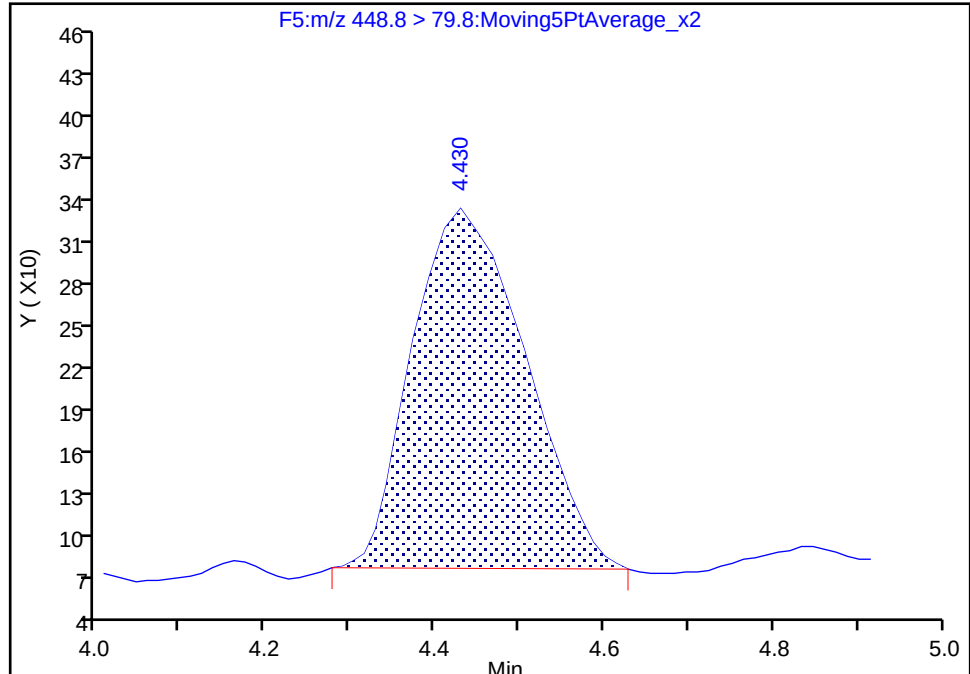
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d  
Injection Date: 12-Oct-2018 17:29:11 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F5:MRM

**18 Perfluoroheptanesulfonic acid, CAS: 375-92-8**

Signal: 1

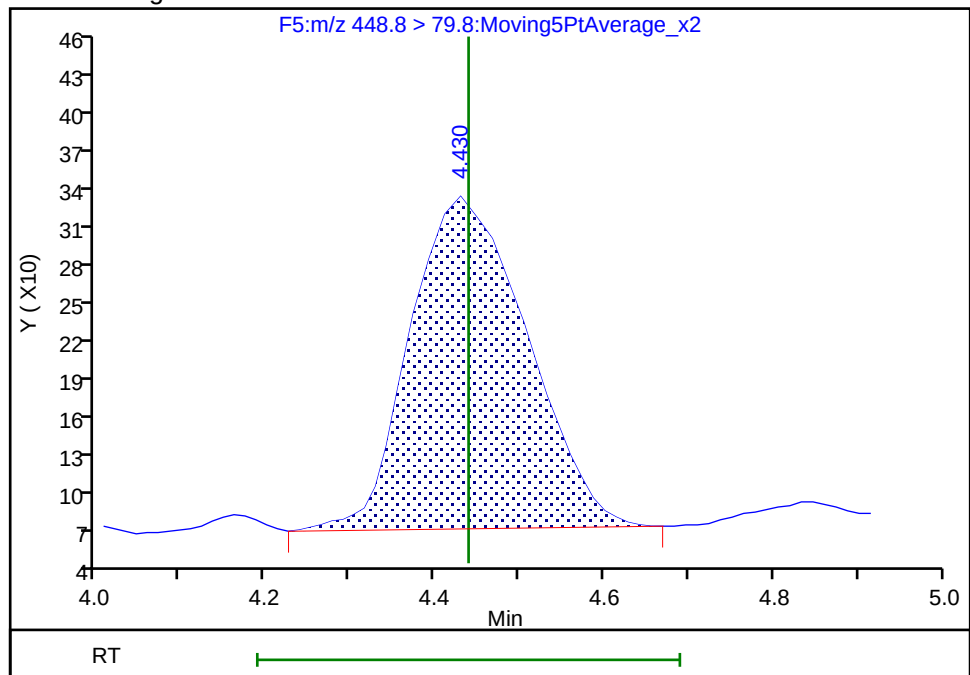
RT: 4.43  
Area: 2370  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.43  
Area: 2496  
Amount: 0.934308  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:36:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

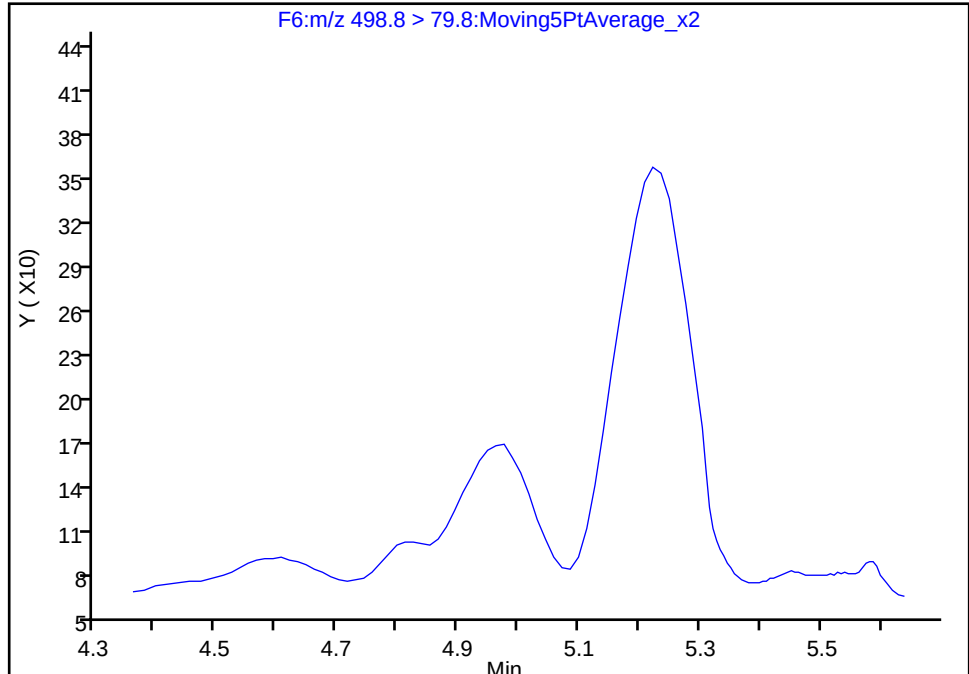
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d  
Injection Date: 12-Oct-2018 17:29:11 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

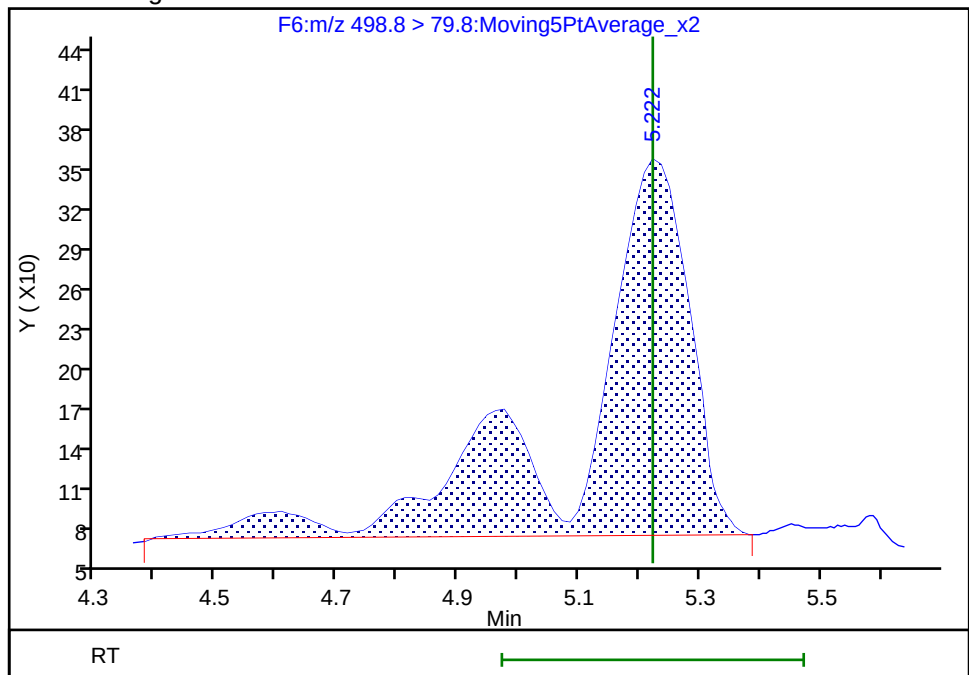
Not Detected  
Expected RT: 5.22

## Processing Integration Results



## Manual Integration Results

RT: 5.22  
Area: 3414  
Amount: 1.087540  
Amount Units: ng/ml



Reviewer: chirgwinb, 12-Oct-2018 21:35:51  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

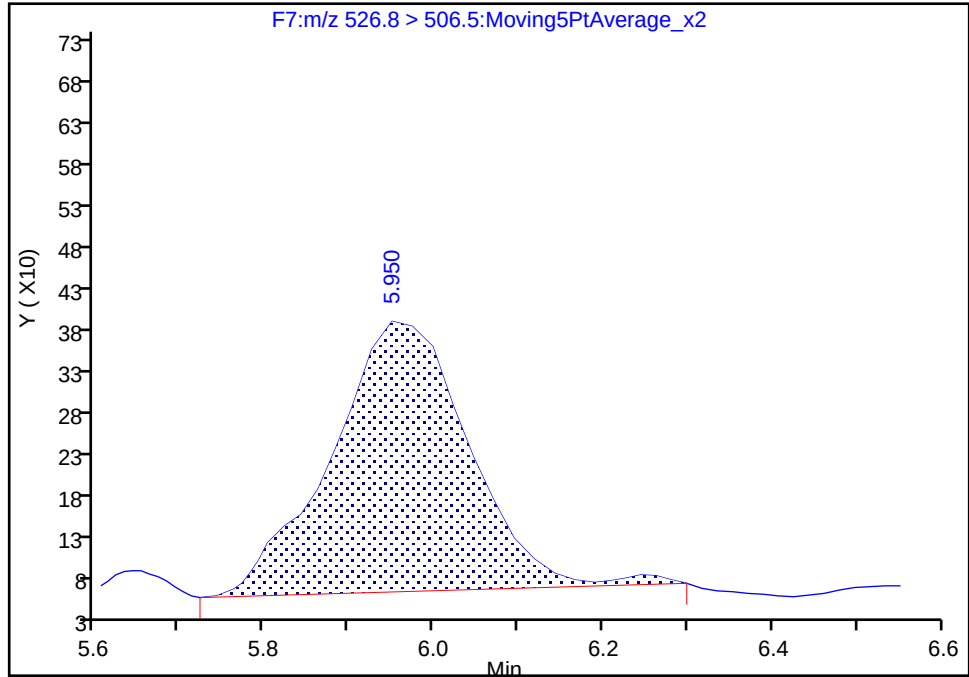
## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d  
Injection Date: 12-Oct-2018 17:29:11 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F7:MRM

23 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4  
Signal: 1

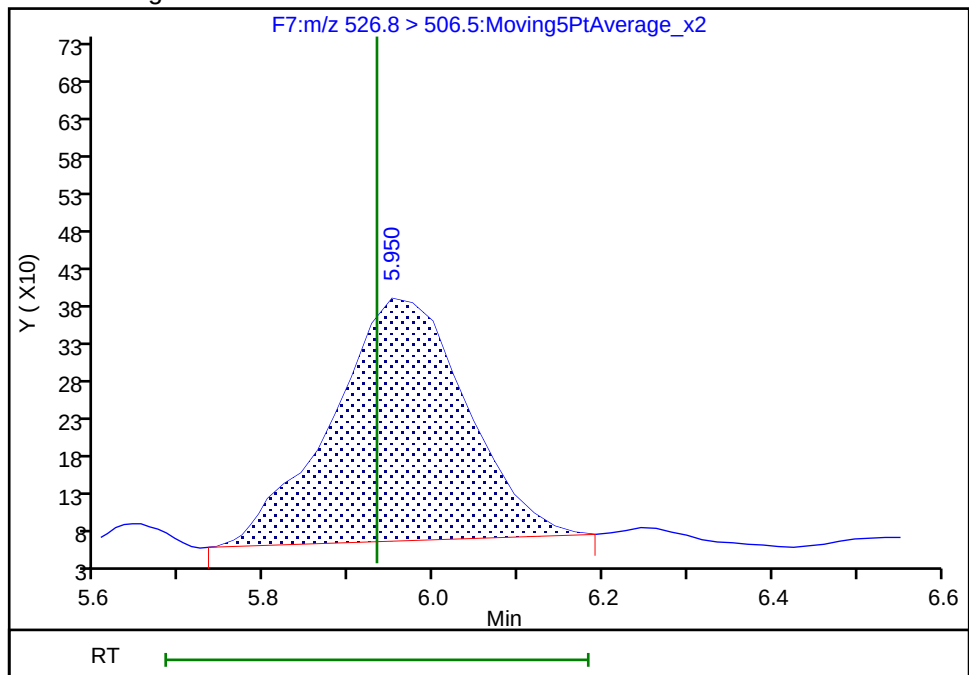
RT: 5.95  
Area: 3645  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.95  
Area: 3532  
Amount: 0.948979  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:37:06  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

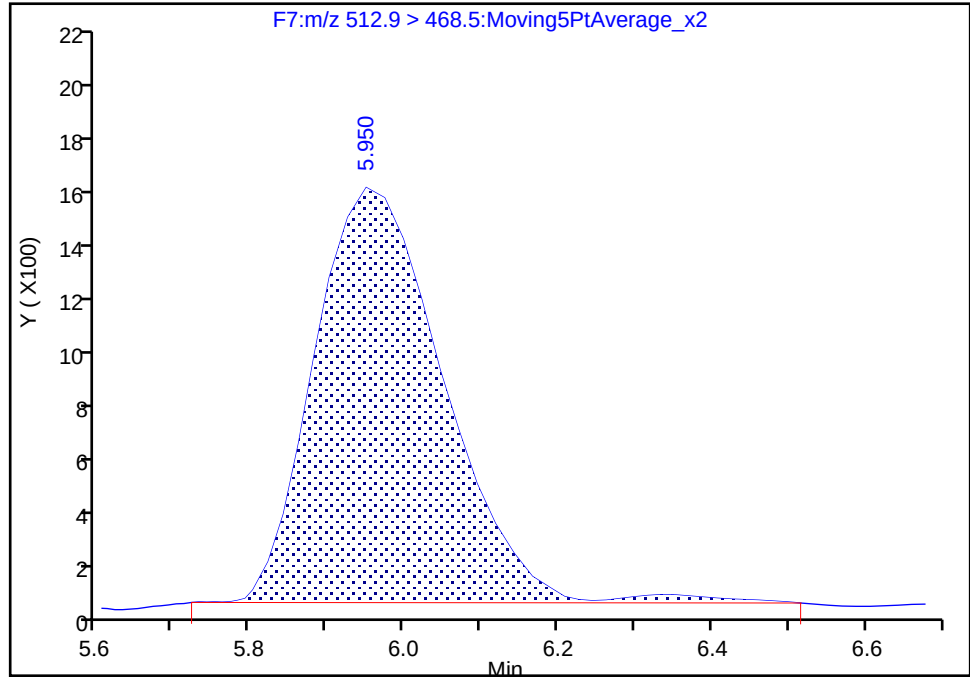
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d |                |             |
| Injection Date: | 12-Oct-2018 17:29:11                                                | Instrument ID: | LC410       |
| Lims ID:        | IC                                                                  |                |             |
| Client ID:      |                                                                     |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector       | F7:MRM      |
|                 |                                                                     | Worklist Smp#: | 6           |

**25 Perfluorodecanoic acid, CAS: 335-76-2**

Signal: 1

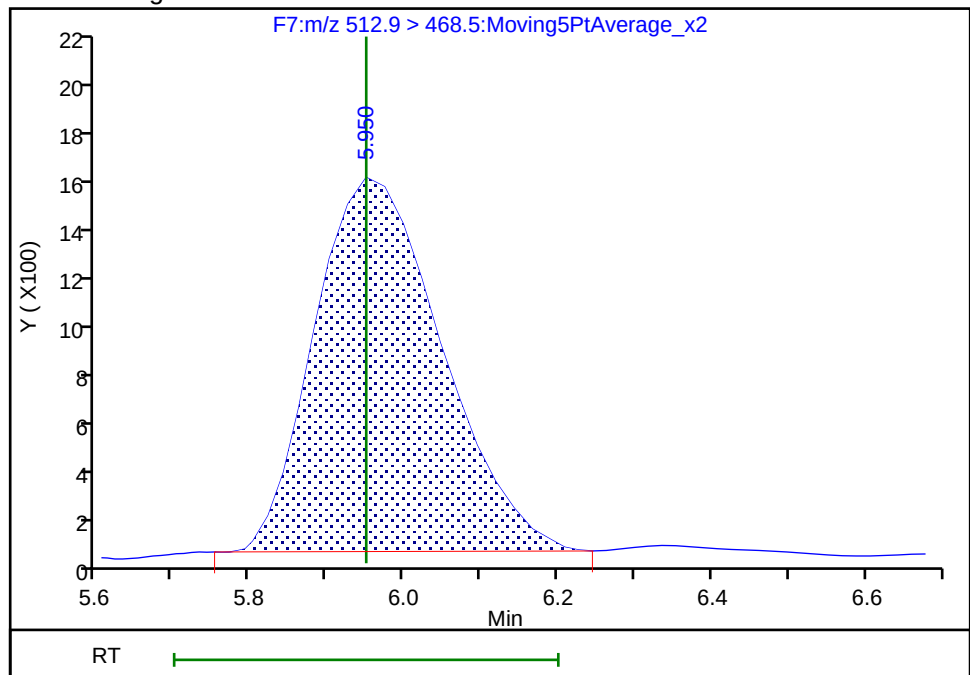
RT: 5.95  
Area: 17547  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.95  
Area: 17143  
Amount: 0.757321  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:37:10  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d

Injection Date: 12-Oct-2018 17:29:11

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

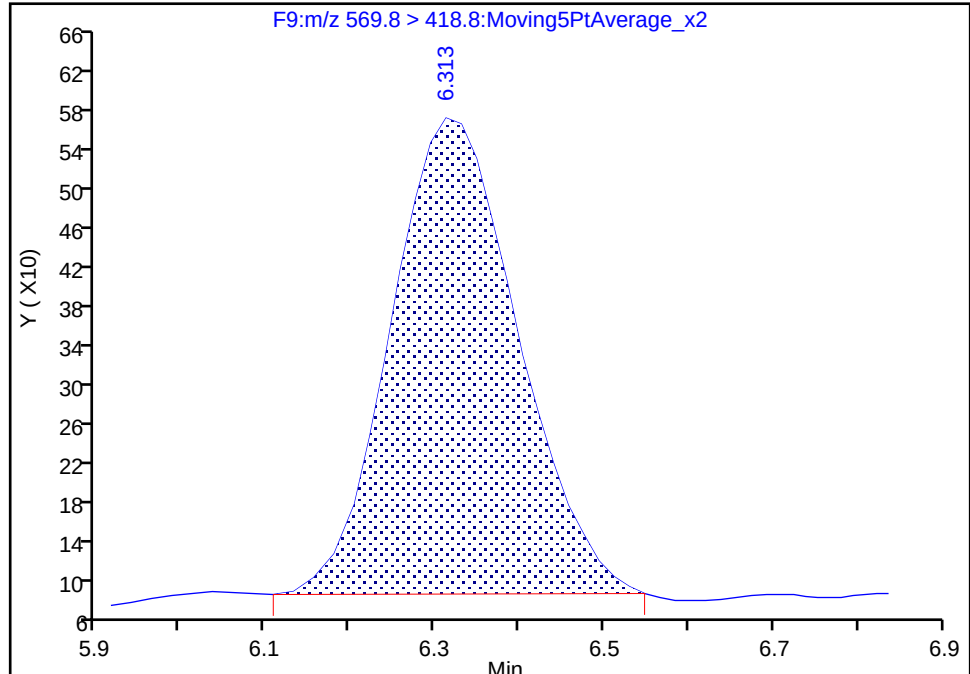
Detector F9:MRM

**28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9**

Signal: 1

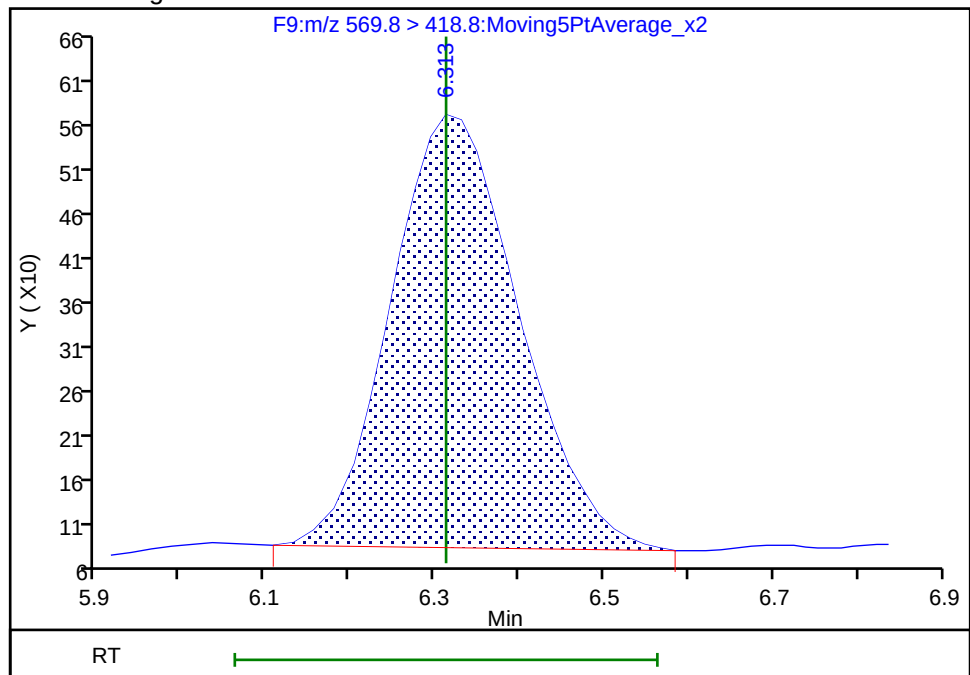
RT: 6.31  
Area: 4995  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.31  
Area: 5088  
Amount: 0.855102  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:37:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d

Injection Date: 12-Oct-2018 17:29:11

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

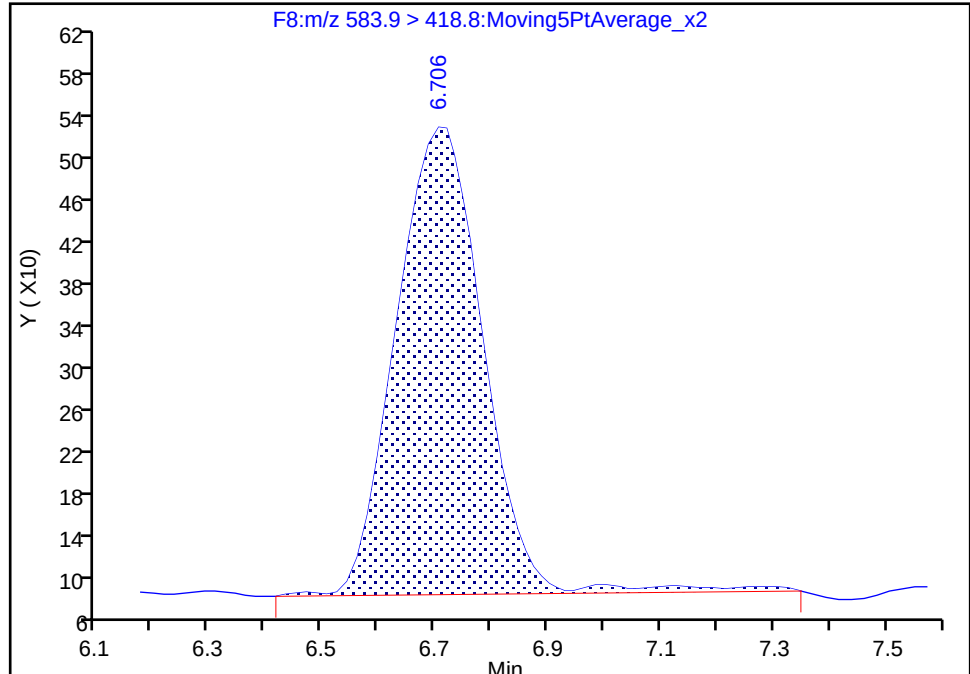
Detector F8:MRM

**30 N-ethylperfluorooctanesulfonamidoacetic acid, CAS: 2991-50-6**

Signal: 1

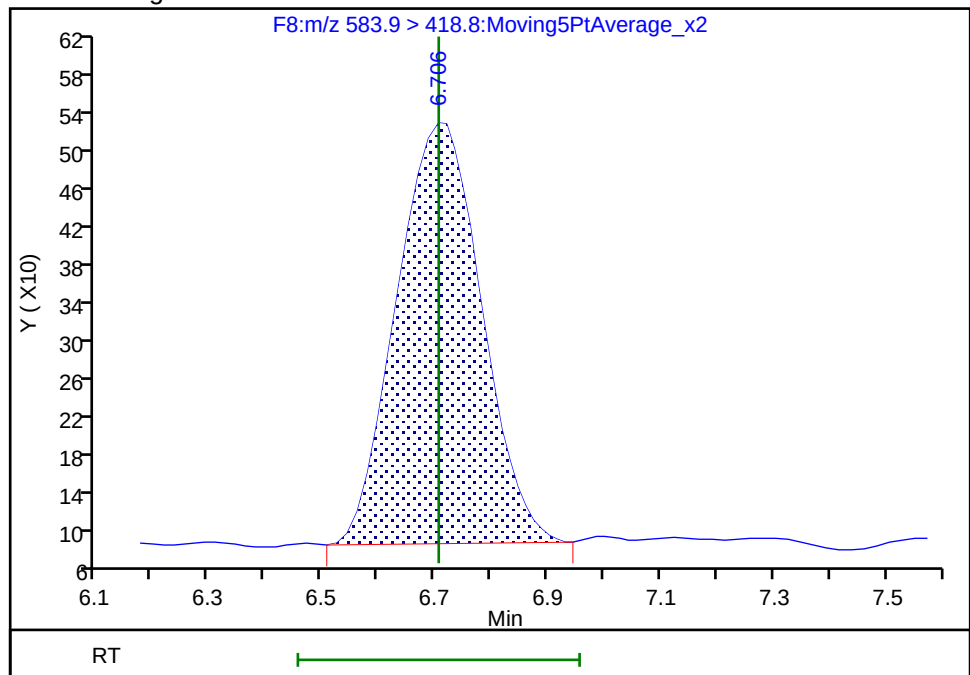
RT: 6.71  
Area: 4753  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.71  
Area: 4582  
Amount: 0.854568  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:37:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

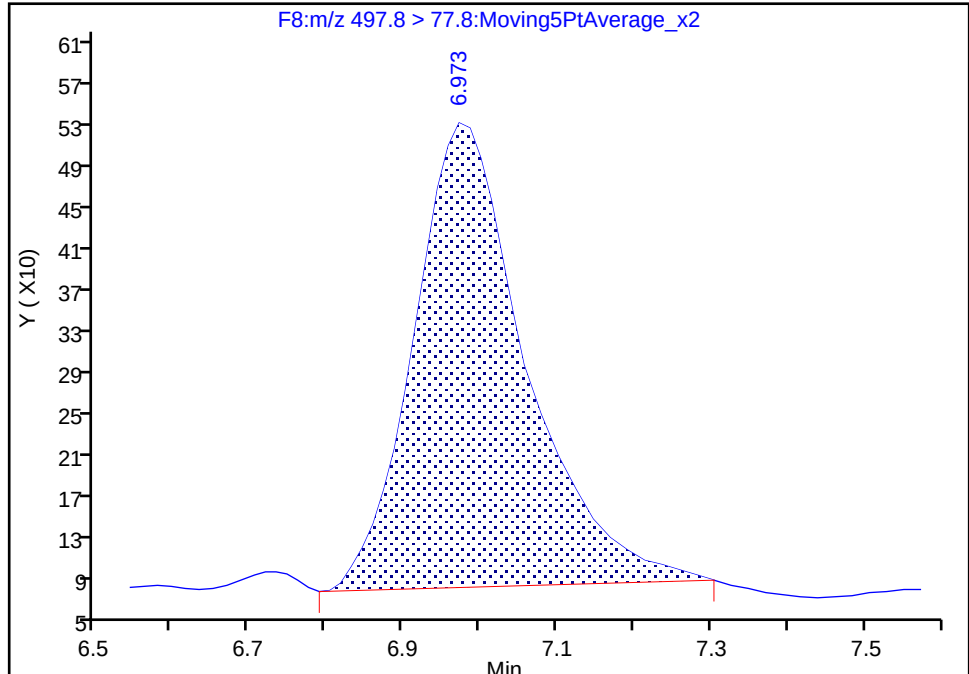
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A06.d  
Injection Date: 12-Oct-2018 17:29:11 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F8:MRM

**34 Perfluorooctanesulfonamide, CAS: 754-91-6**

Signal: 1

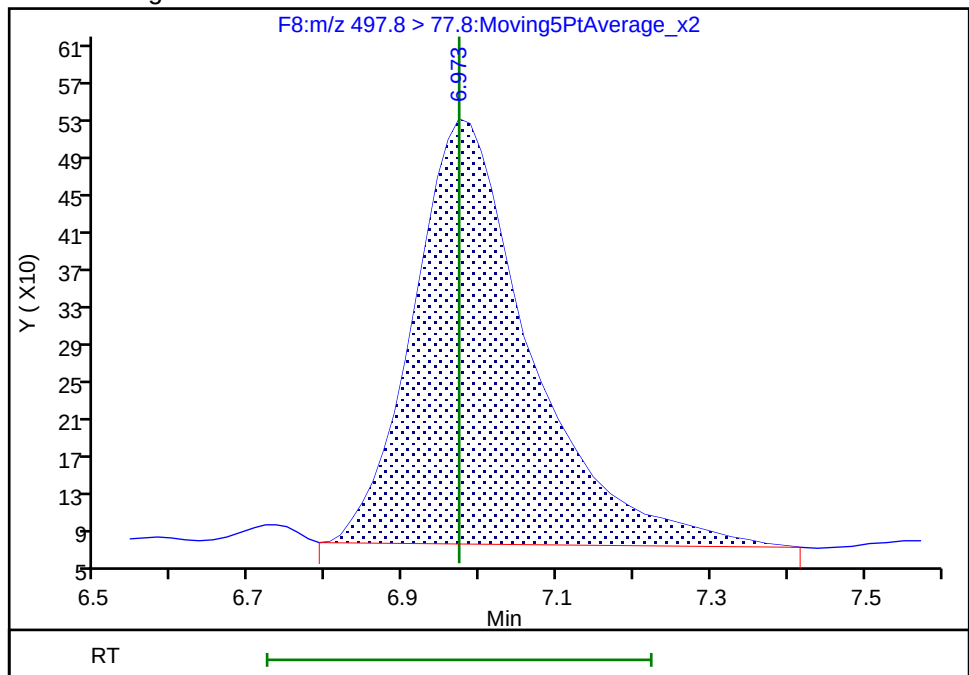
RT: 6.97  
Area: 4545  
Amount: 1.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.97  
Area: 4819  
Amount: 0.895708  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:37:32  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 12-Oct-2018 17:45:01 ALS Bottle#: 0 Worklist Smp#: 7  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-007 IC 2  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:23:21 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 12-Oct-2018 21:42:29

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |        |        |        |          |              |               |      |      | M     |
| 216.9 > 171.5                         | 2.347 | 2.343  | 0.004  | 1.000  | 439686   | 55.0         |               | 110  | 372  | M     |
| 2 Perfluorobutanoic acid              |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                         | 2.347 | 2.343  | 0.004  | 1.000  | 15243    | 1.81         |               | 90.5 | 33.4 | M     |
| D 3 13C5 PFPeA                        |       |        |        |        |          |              |               |      |      | M     |
| 267.7 > 222.6                         | 2.760 | 2.763  | -0.003 | 1.000  | 119145   | 62.2         |               | 124  | 455  | M     |
| 4 Perfluoropentanoic acid             |       |        |        |        |          |              |               |      |      | M     |
| 262.9 > 218.8                         | 2.760 | 2.764  | -0.004 | 1.000  | 28231    | 1.75         |               | 87.5 | 104  | M     |
| D 6 13C3 PFBS                         |       |        |        |        |          |              |               |      |      | M     |
| 302.0 > 79.8                          | 2.818 | 2.823  | -0.005 | 1.000  | 141121   | 50.3         |               | 108  | 260  | M     |
| 5 Perfluorobutanesulfonic acid        |       |        |        |        |          |              |               |      |      | M     |
| 298.9 > 80.0                          | 2.818 | 2.828  | -0.010 | 1.000  | 14402    | 2.33         |               | 117  | 156  | M     |
| D 7 13C2 PFHxA                        |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                         | 3.189 | 3.188  | 0.001  | 1.000  | 347121   | 59.5         |               | 119  | 2180 |       |
| 8 Perfluorohexanoic acid              |       |        |        |        |          |              |               |      |      |       |
| 312.8 > 268.6                         | 3.189 | 3.189  | 0.0    | 1.000  | 14125    | 1.91         |               | 95.7 | 124  |       |
| D 9 13C4 PFHpA                        |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                         | 3.726 | 3.725  | 0.001  | 1.000  | 883707   | 51.7         |               | 103  | 4111 |       |
| 10 Perfluoroheptanoic acid            |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                         | 3.726 | 3.729  | -0.003 | 1.000  | 37809    | 2.13         |               | 106  | 337  |       |
| 12 Perfluorohexanesulfonic acid       |       |        |        |        |          |              |               |      |      | M     |
| 399.0 > 80.0                          | 3.759 | 3.770  | -0.011 | 0.997  | 13200    | 1.87         |               | 93.7 | 148  | M     |
| D 11 18O2 PFHxS                       |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                          | 3.770 | 3.770  | 0.0    | 1.000  | 178546   | 52.8         |               | 112  | 425  |       |
| D 13 M2-6:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                         | 4.355 | 4.353  | 0.002  | 1.000  | 29484    | 47.8         |               | 101  | 118  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 426.6 > 406.6                         | 4.374 | 4.355  | 0.019  | 1.004  | 14279    | 2.22         |               | 111  | 224  |       |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| * 15 13C2 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                         | 4.393 | 4.401  | -0.008 |        | 740805   | 50.0         |               |      | 2258 |       |
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                         | 4.411 | 4.407  | 0.004  | 1.000  | 705202   | 51.4         |               | 103  | 1478 |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 412.9 > 368.8                         | 4.411 | 4.409  | 0.002  | 1.000  | 28522    | 1.93         |               | 96.6 | 260  |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |      |      |       |
| 448.8 > 79.8                          | 4.430 | 4.436  | -0.006 | 0.853  | 4775     | 1.77         |               | 88.6 | 34.4 | M     |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |      |      |       |
| 467.8 > 422.8                         | 5.181 | 5.171  | 0.010  | 1.000  | 933006   | 53.2         |               | 106  | 882  |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 462.8 > 418.8                         | 5.181 | 5.175  | 0.006  | 1.000  | 47056    | 1.87         |               | 93.3 | 329  |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |      |      |       |
| 502.8 > 79.8                          | 5.195 | 5.195  | 0.0    | 1.000  | 146499   | 51.7         |               | 108  | 475  |       |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 498.8 > 79.8                          | 5.181 | 5.222  | -0.041 | 0.997  | 4987     | 1.58         |               | 78.8 | 32.9 | M     |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 528.8 > 508.8                         | 5.926 | 5.929  | -0.003 | 1.000  | 196574   | 42.4         |               | 88.5 | 897  |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 526.8 > 506.5                         | 5.926 | 5.932  | -0.006 | 1.000  | 5469     | 1.85         |               | 92.7 | 39.1 | M     |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |      |      |       |
| 514.9 > 469.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 955503   | 49.7         |               | 99.4 | 1112 |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 512.9 > 468.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 42987    | 2.28         |               | 114  | 132  |       |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 572.8 > 418.8                         | 6.313 | 6.311  | 0.002  | 1.000  | 255071   | 47.1         |               | 94.2 | 856  |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |      |      |       |
| 569.8 > 418.8                         | 6.313 | 6.313  | 0.0    | 1.000  | 10968    | 2.04         |               | 102  | 47.9 |       |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 588.9 > 418.8                         | 6.670 | 6.674  | -0.004 | 1.000  | 246369   | 52.4         |               | 105  | 1071 |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |      |      |       |
| 583.9 > 418.8                         | 6.706 | 6.706  | 0.0    | 1.005  | 8885     | 1.83         |               | 91.7 | 83.5 |       |
| 31 Perfluorodecanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 598.8 > 79.8                          | 6.706 | 6.688  | 0.018  | 1.291  | 7052     | 2.02         |               | 101  | 75.8 | M     |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 562.8 > 518.6                         | 6.720 | 6.720  | 0.0    | 1.000  | 43842    | 2.15         |               | 107  | 259  |       |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |      |      |       |
| 564.8 > 519.8                         | 6.720 | 6.720  | 0.0    | 1.000  | 1151317  | 52.2         |               | 104  | 8622 |       |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |      |      |       |
| 505.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 274678   | 54.7         |               | 109  | 1149 |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |               |      |      |       |
| 497.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 8685     | 1.84         |               | 92.1 | 62.0 | M     |
| D 37 13C2 PFDaA                       |       |        |        |        |          |              |               |      |      |       |
| 614.8 > 569.6                         | 7.406 | 7.402  | 0.004  | 1.000  | 1163362  | 48.2         |               | 96.4 | 2011 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 612.8 > 568.6                         | 7.406 | 7.407  | -0.001 | 1.000  | 37236    | 1.85         |               | 92.5 | 153  |       |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |      |      |       |
| 662.8 > 618.6                         | 8.021 | 8.021  | 0.0    | 0.937  | 44970    | 2.03         |               | 101  | 516  | M     |

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)    | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|------------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                  |      |      |       |
| 714.8 > 669.6                  | 8.560 | 8.563     | -0.003    | 1.000     | 1192782  | 50.8            |                  | 102  | 1455 |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                  |      |      | M     |
| 712.8 > 668.6                  | 8.575 | 8.575     | 0.0       | 1.002     | 52292    | 2.24            |                  | 112  | 292  |       |
| 712.8 > 168.8                  | 8.575 | 8.575     | 0.0       | 1.002     | 9268     |                 | 5.64(0.00-0.00)  | 112  | 49.6 |       |
| 712.8 > 218.8                  | 8.560 | 8.575     | -0.015    | 1.000     | 3195     |                 | 16.37(0.00-0.00) | 112  | 11.8 | M     |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L2\_00003

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A07.d

Injection Date: 12-Oct-2018 17:45:01

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

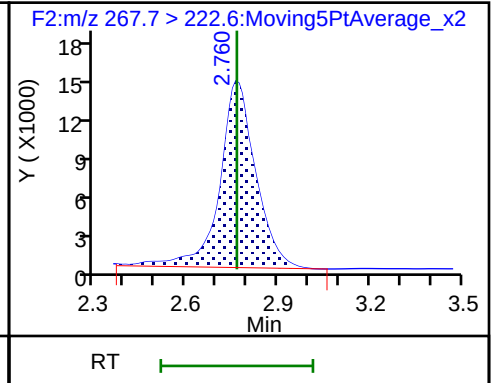
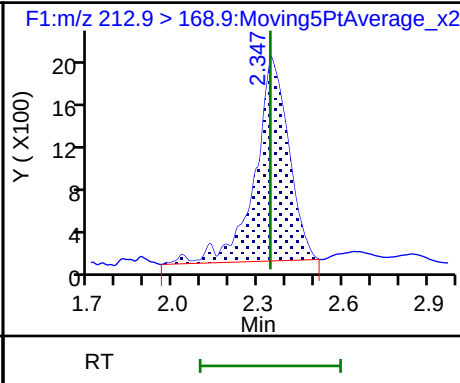
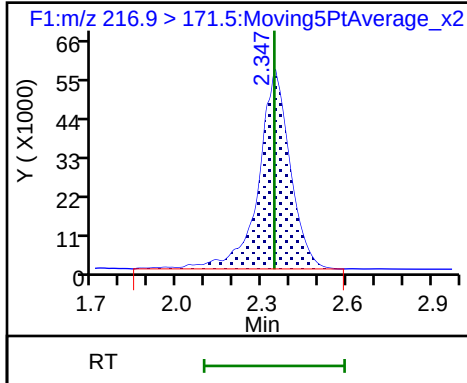
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

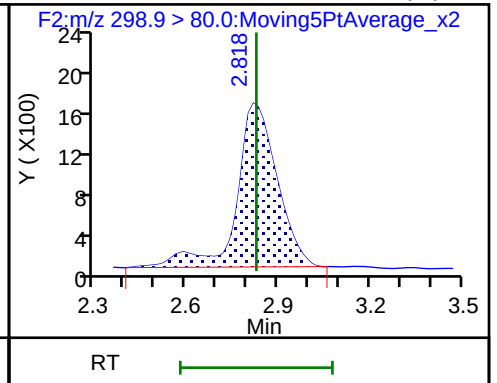
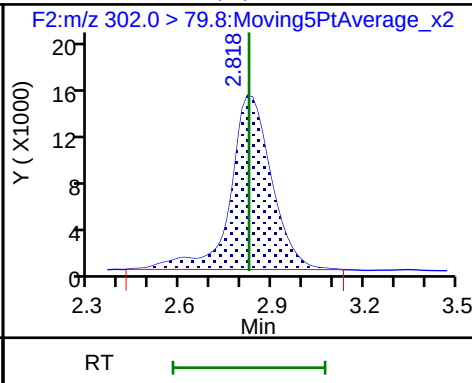
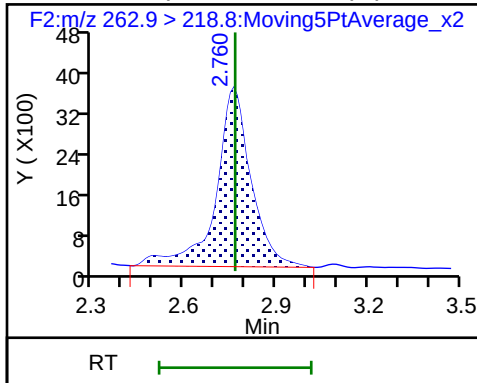
D 3 13C5 PFPeA (M)



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS (M)

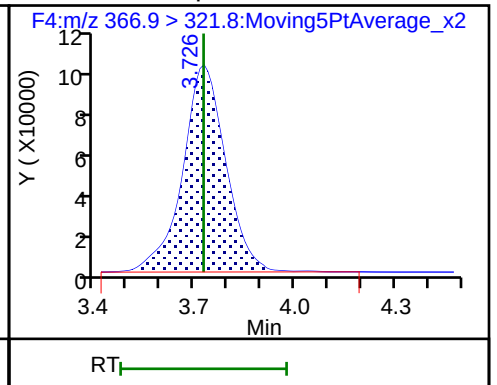
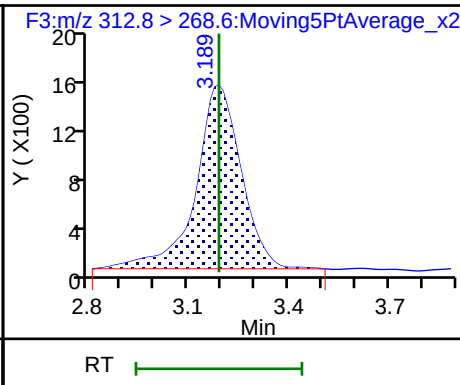
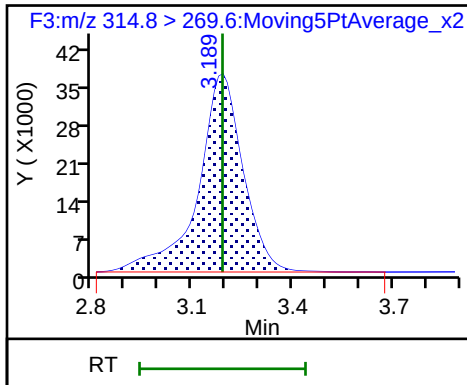
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

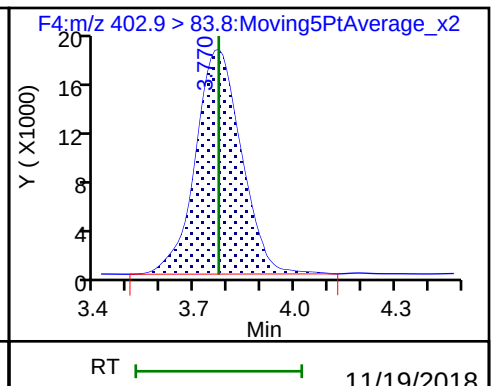
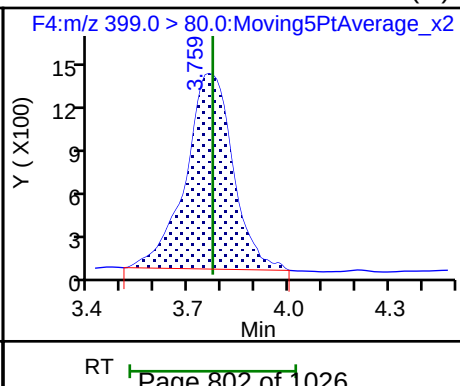
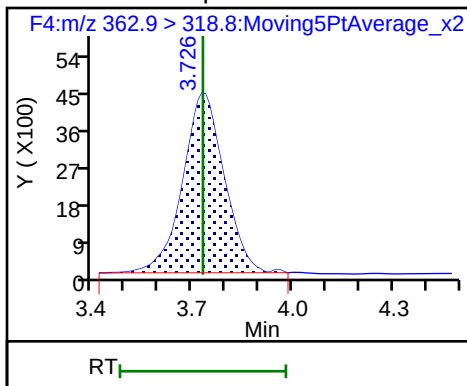
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid (M)

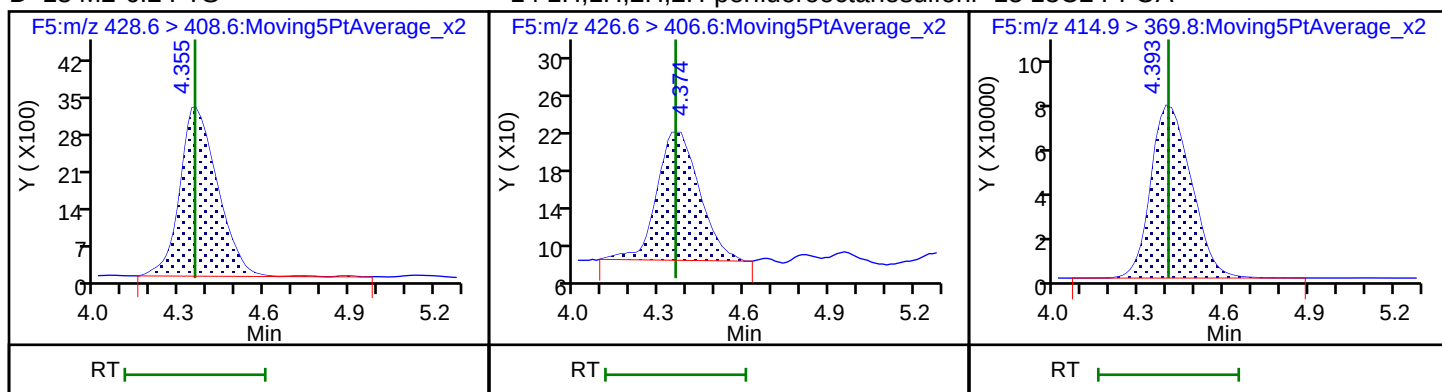
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

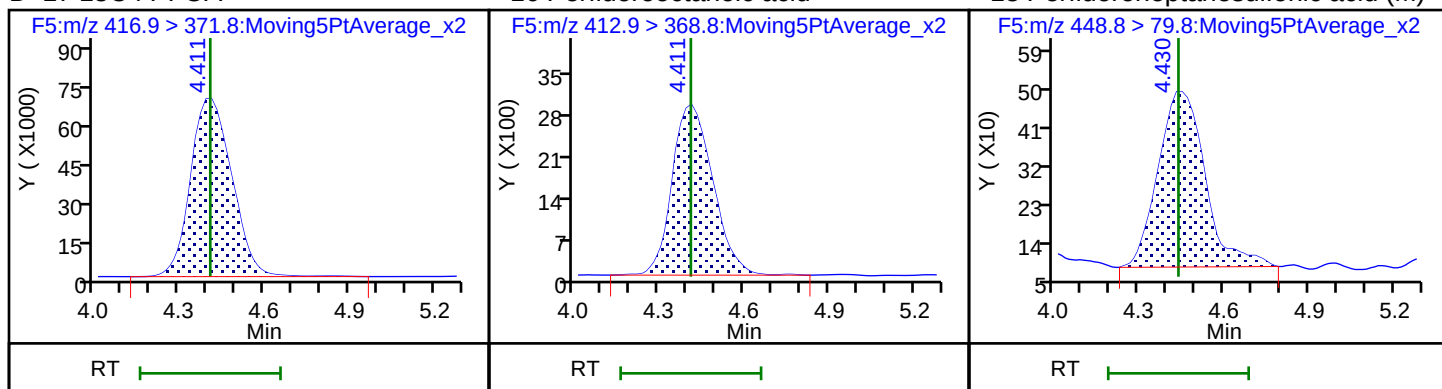
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

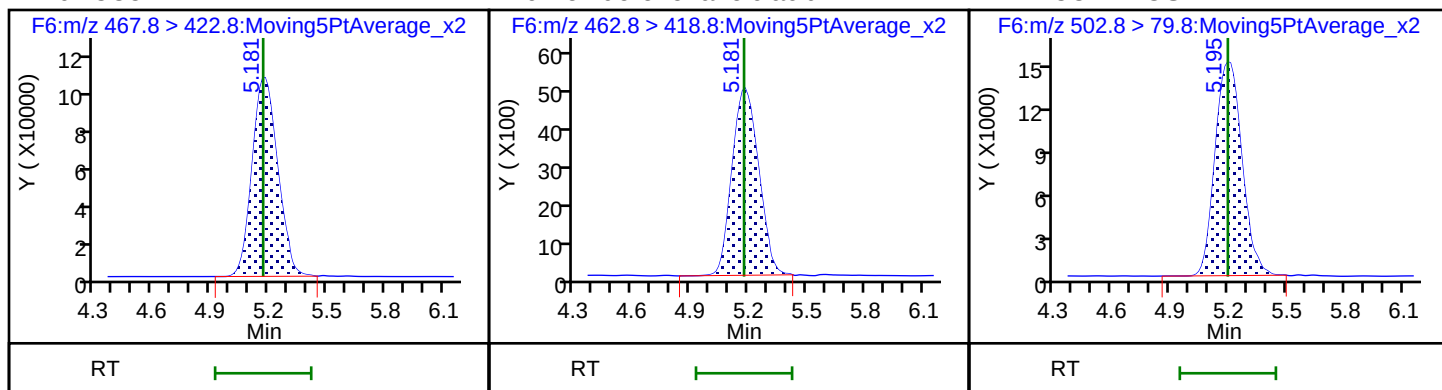
18 Perfluoroheptanesulfonic acid (M)



D 20 13C5 PFNA

19 Perfluorononanoic acid

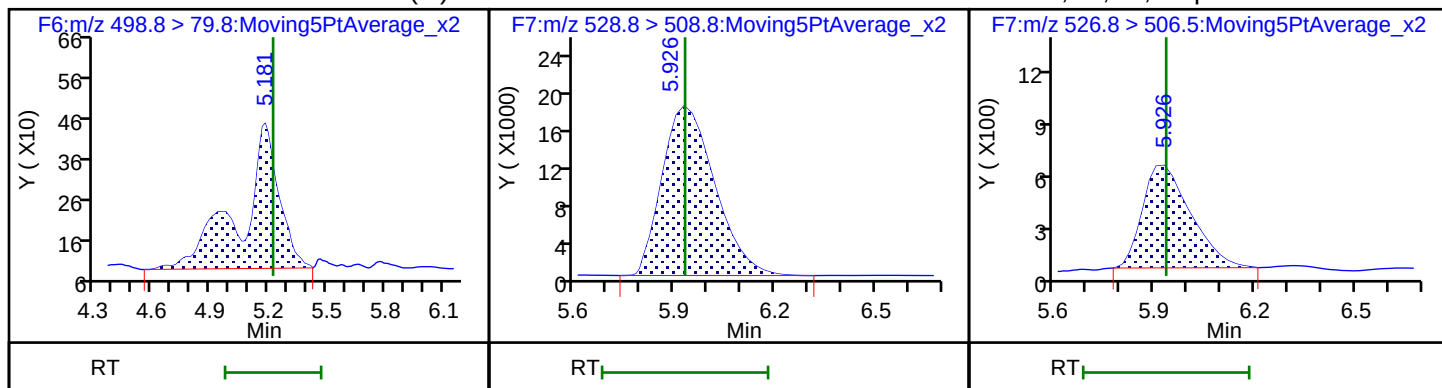
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

23 1H,1H,2H,2H-perfluorodecanesulfonate (M)

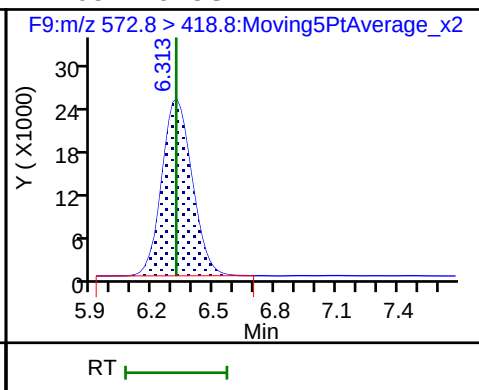
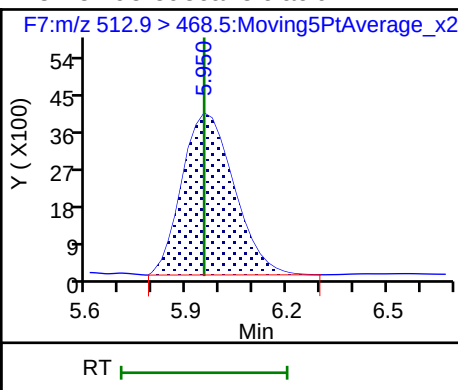
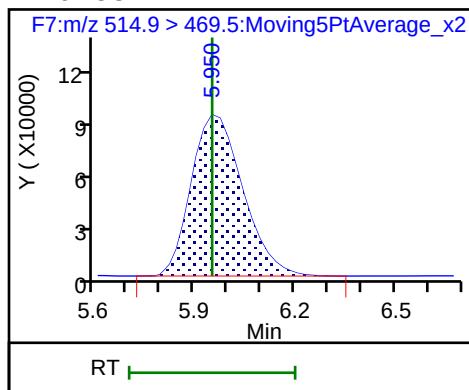




## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

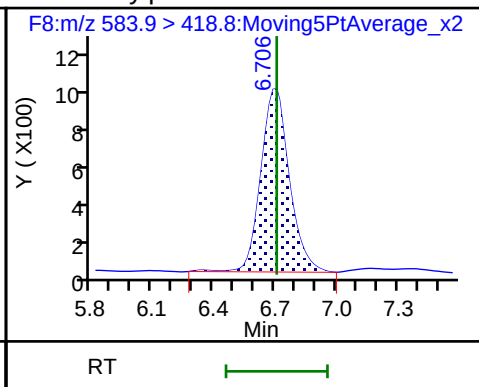
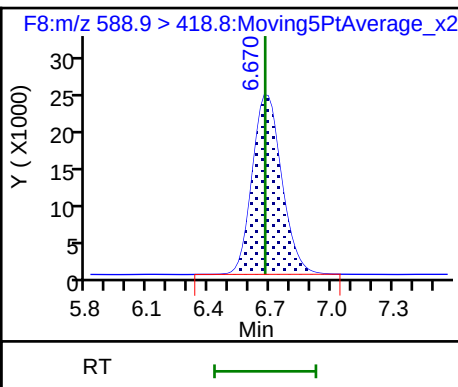
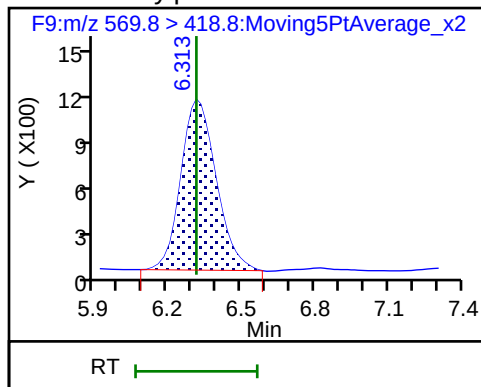
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamid

## D 29 d5-NEtFOSAA

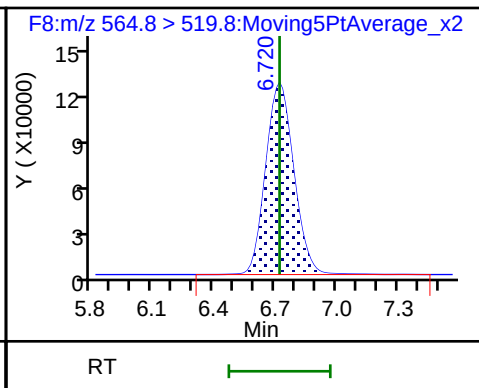
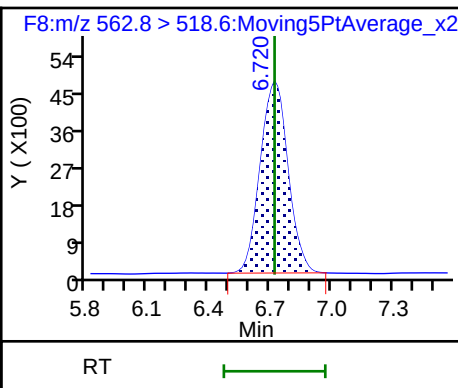
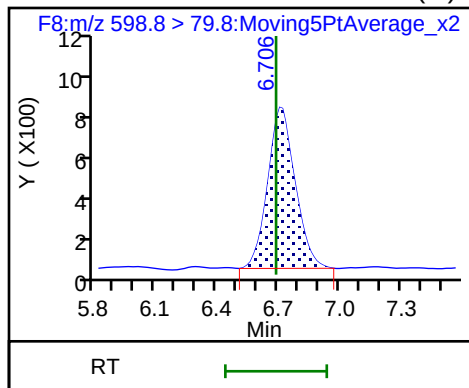
## 30 N-ethylperfluorooctanesulfonamidoa



## 31 Perfluorodecanesulfonic acid (M)

## 33 Perfluoroundecanoic acid

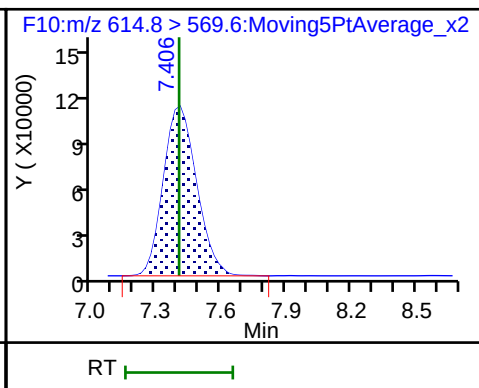
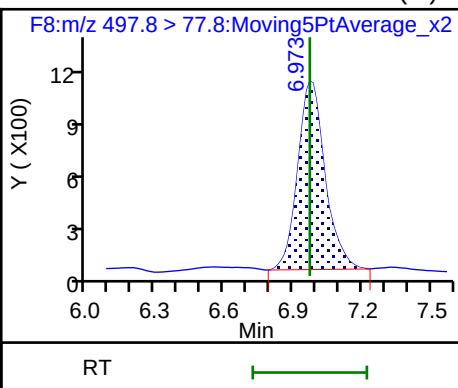
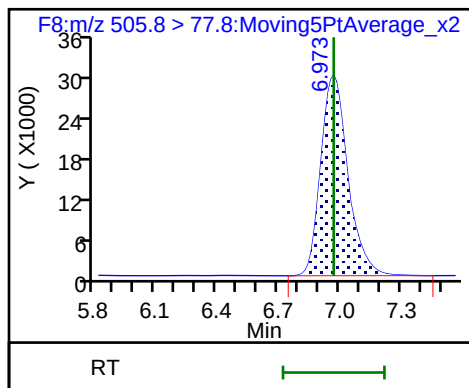
## D 32 13C2 PFUnA



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide (M)

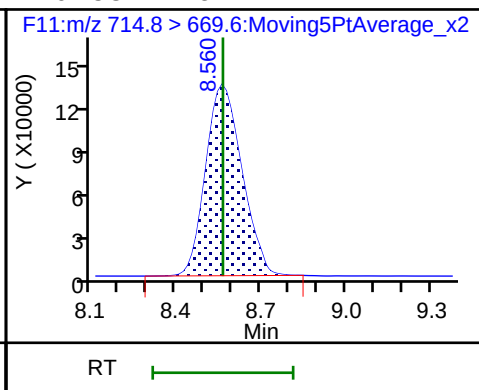
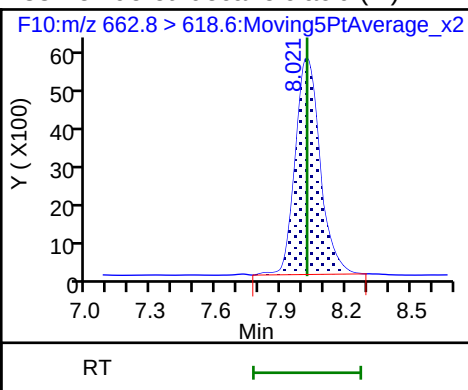
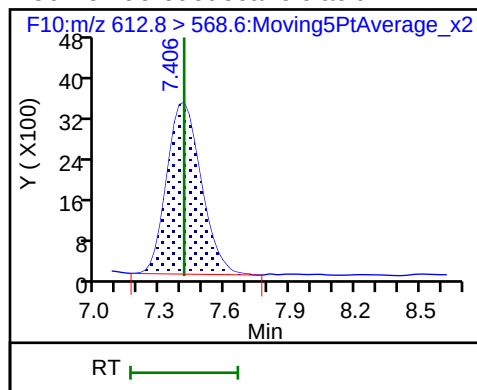
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid (M)

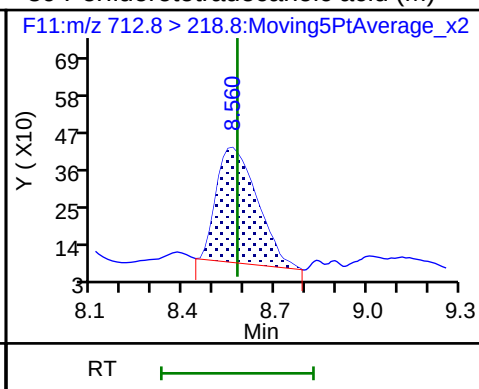
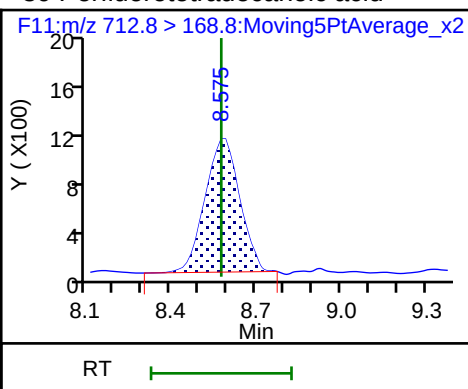
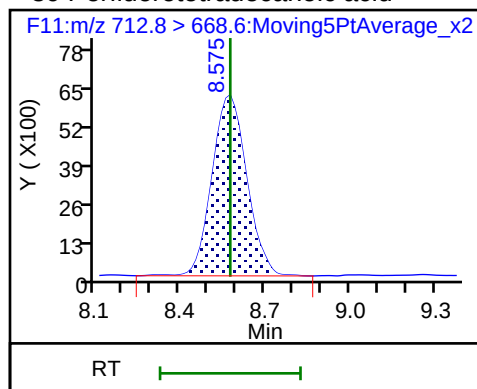
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid (M)



## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d

Injection Date: 12-Oct-2018 17:45:01

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

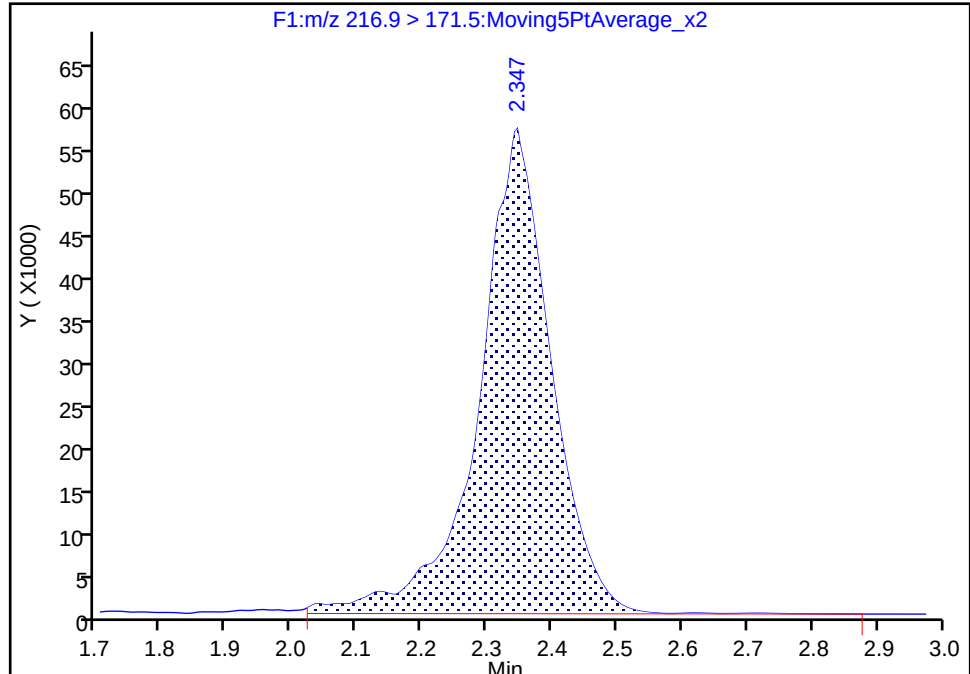
Detector F1:MRM

**D 1 13C4 PFBA, CAS: STL00992**

Signal: 1

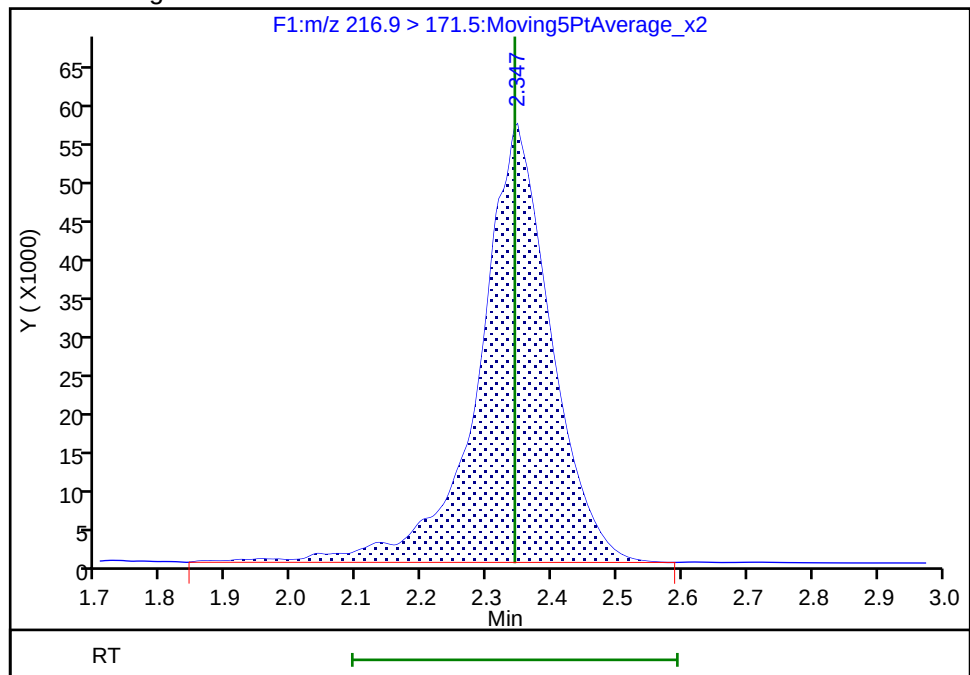
RT: 2.35  
Area: 438342  
Amount: 54.103467  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.35  
Area: 439686  
Amount: 55.044775  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:41:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

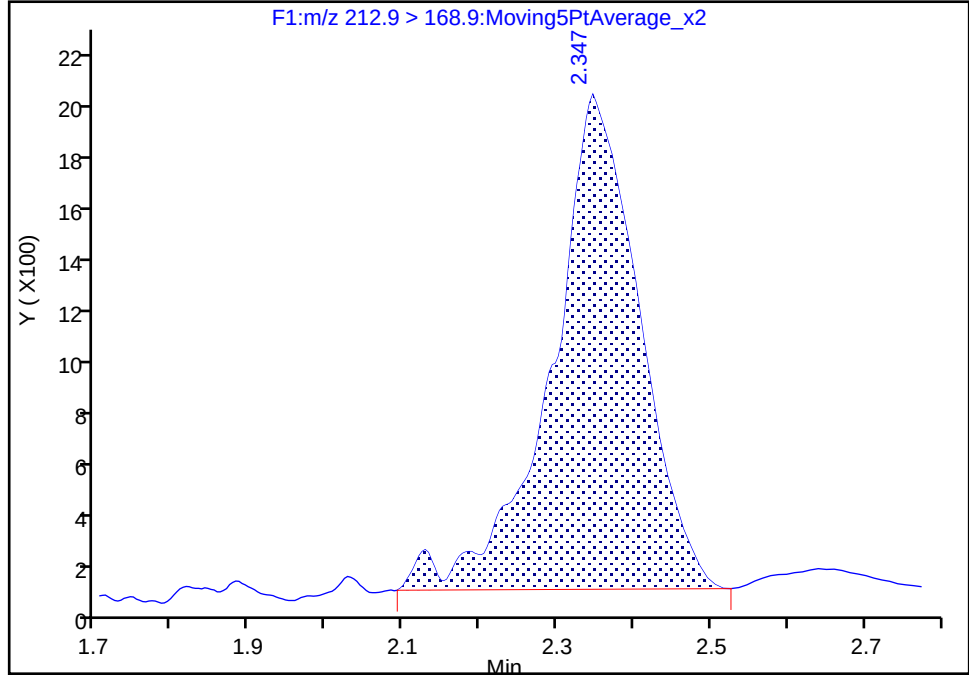
|                 |                                                                     |                |                    |
|-----------------|---------------------------------------------------------------------|----------------|--------------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d |                |                    |
| Injection Date: | 12-Oct-2018 17:45:01                                                | Instrument ID: | LC410              |
| Lims ID:        | IC                                                                  |                |                    |
| Client ID:      |                                                                     |                |                    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0 Worklist Smp#: 7 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000             |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL        |
| Column:         |                                                                     | Detector:      | F1:MRM             |

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

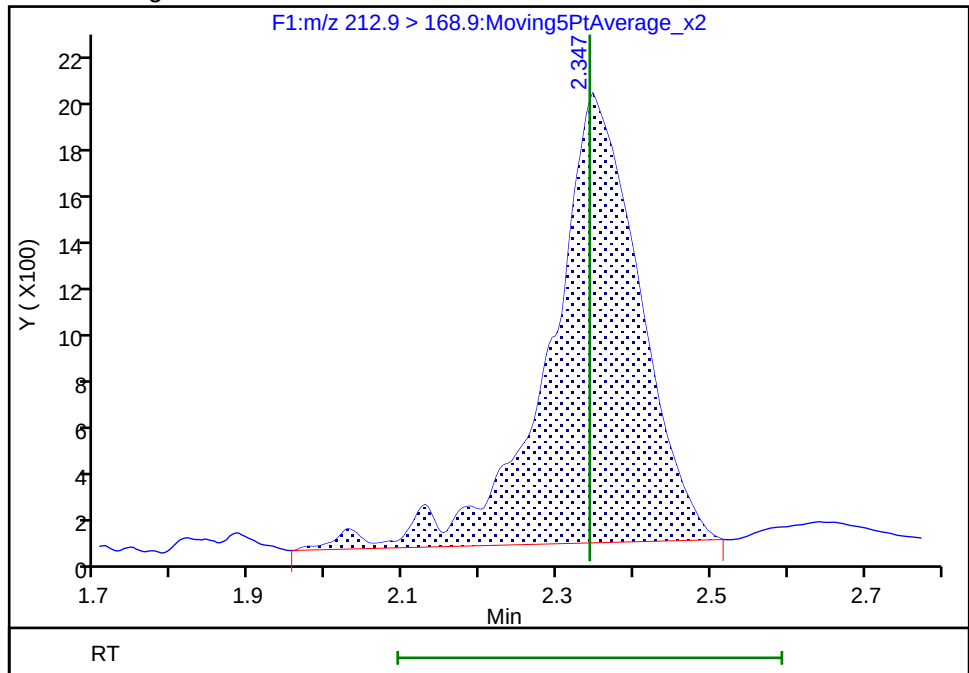
RT: 2.35  
Area: 14655  
Amount: 1.675662  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.35  
Area: 15243  
Amount: 1.809224  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:41:19  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d

Injection Date: 12-Oct-2018 17:45:01

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

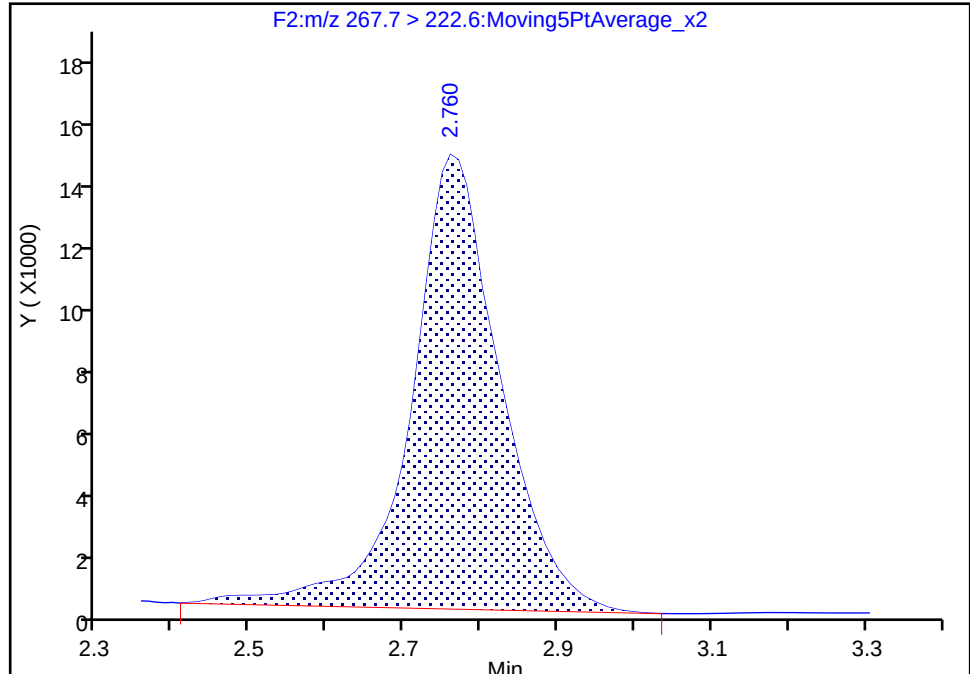
Detector F2:MRM

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

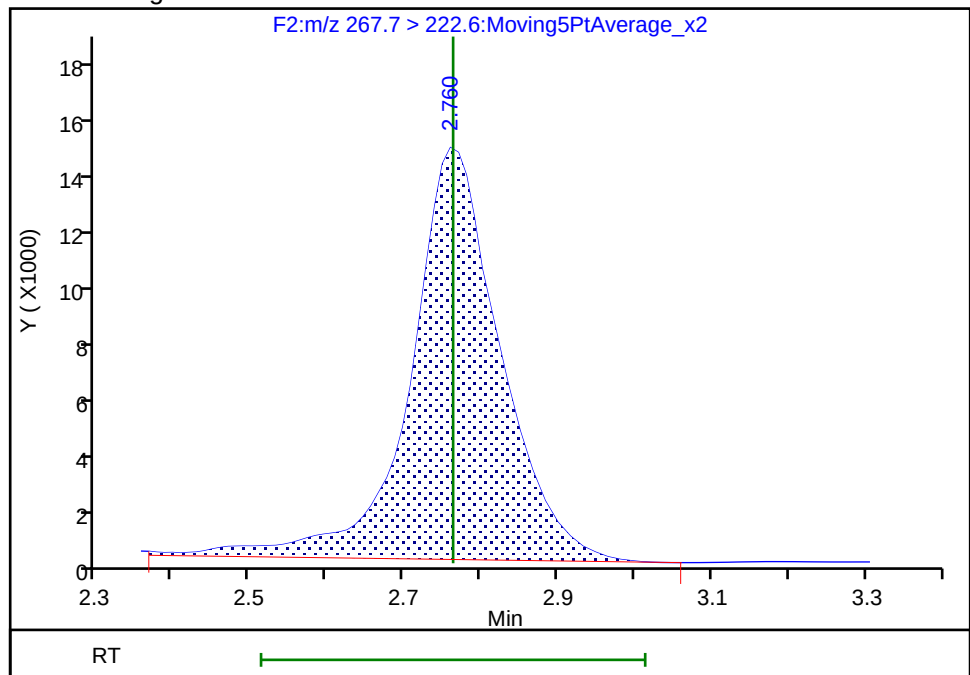
RT: 2.76  
Area: 117473  
Amount: 57.109439  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.76  
Area: 119145  
Amount: 62.180098  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:41:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d

Injection Date: 12-Oct-2018 17:45:01

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

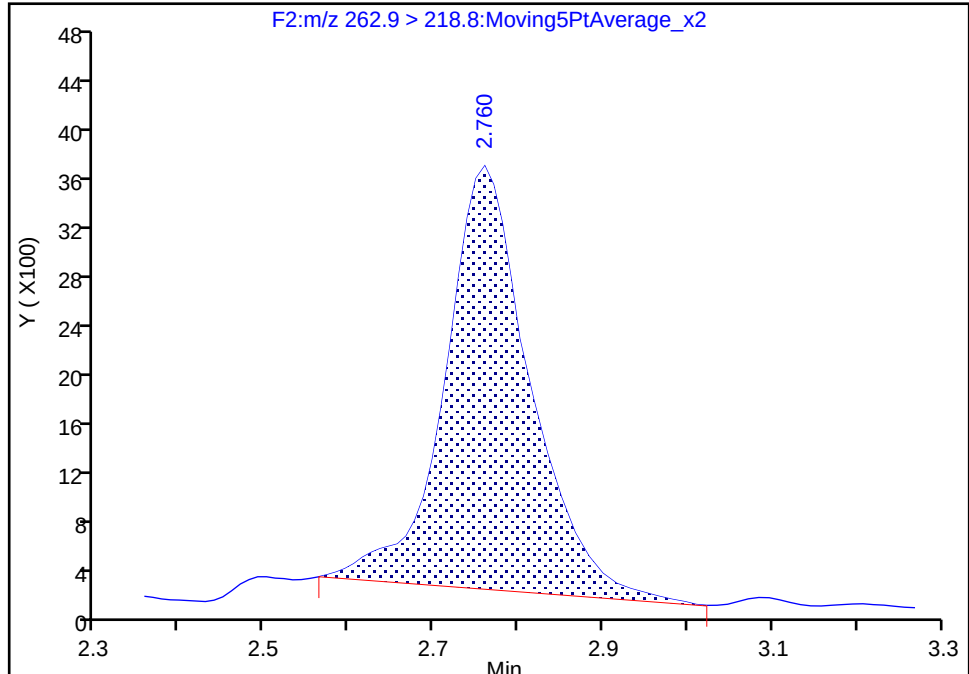
Detector F2:MRM

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

Signal: 1

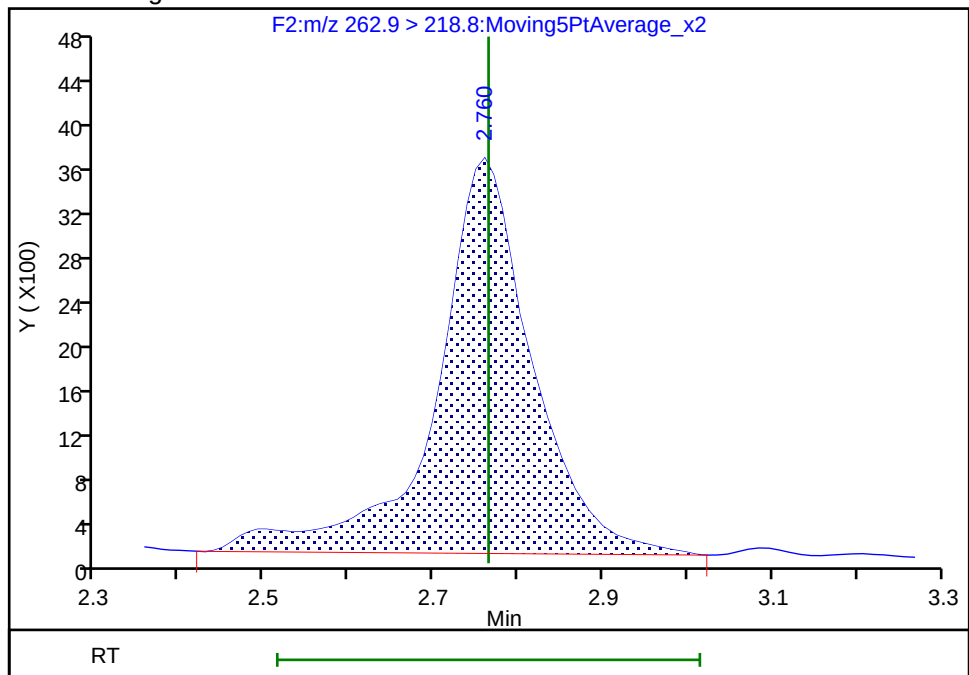
RT: 2.76  
Area: 24289  
Amount: 1.681823  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.76  
Area: 28231  
Amount: 1.749609  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:41:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d

Injection Date: 12-Oct-2018 17:45:01

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

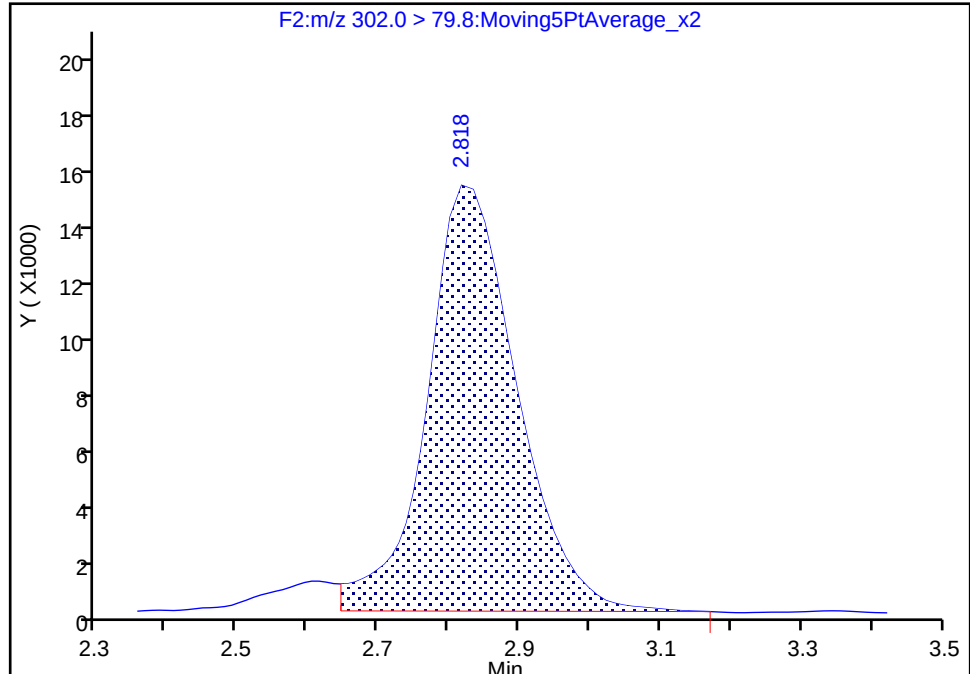
Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

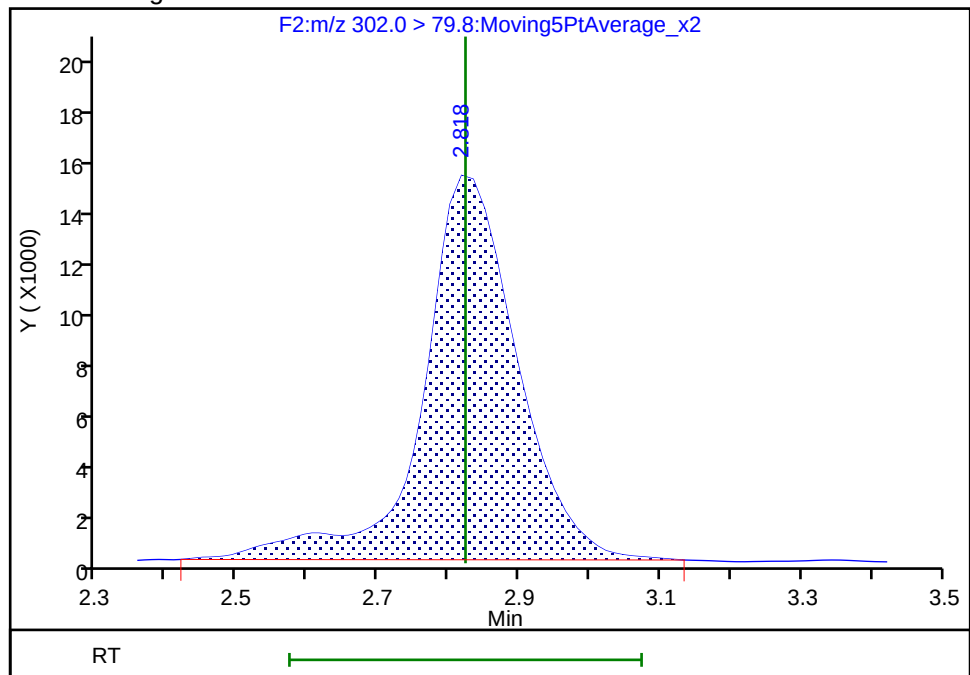
RT: 2.82  
Area: 134670  
Amount: 47.396985  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.82  
Area: 141121  
Amount: 50.337279  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:41:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

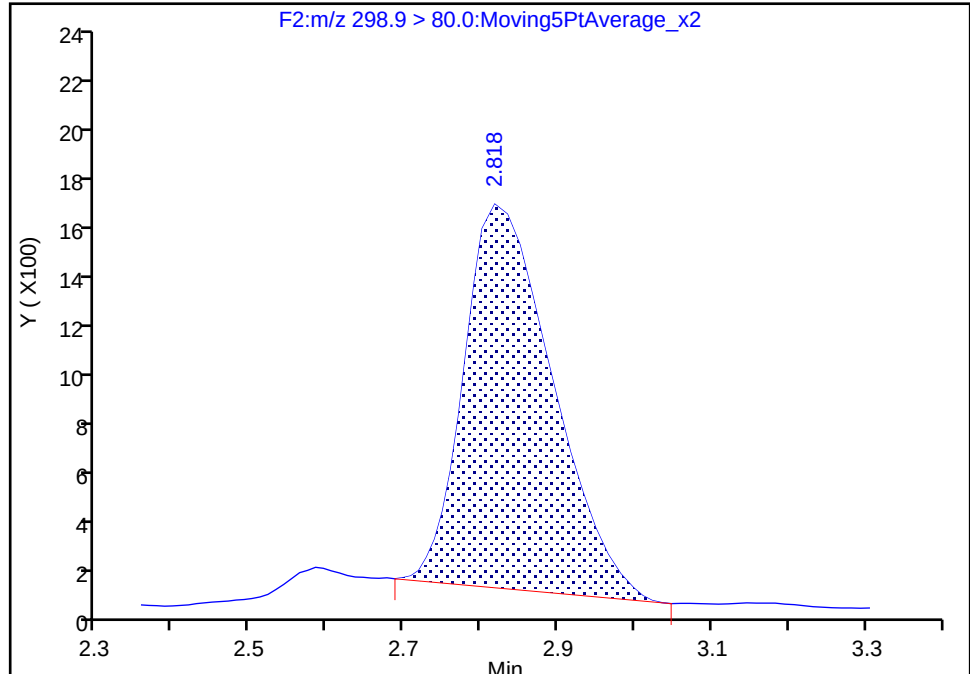
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d  
Injection Date: 12-Oct-2018 17:45:01 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

Signal: 1

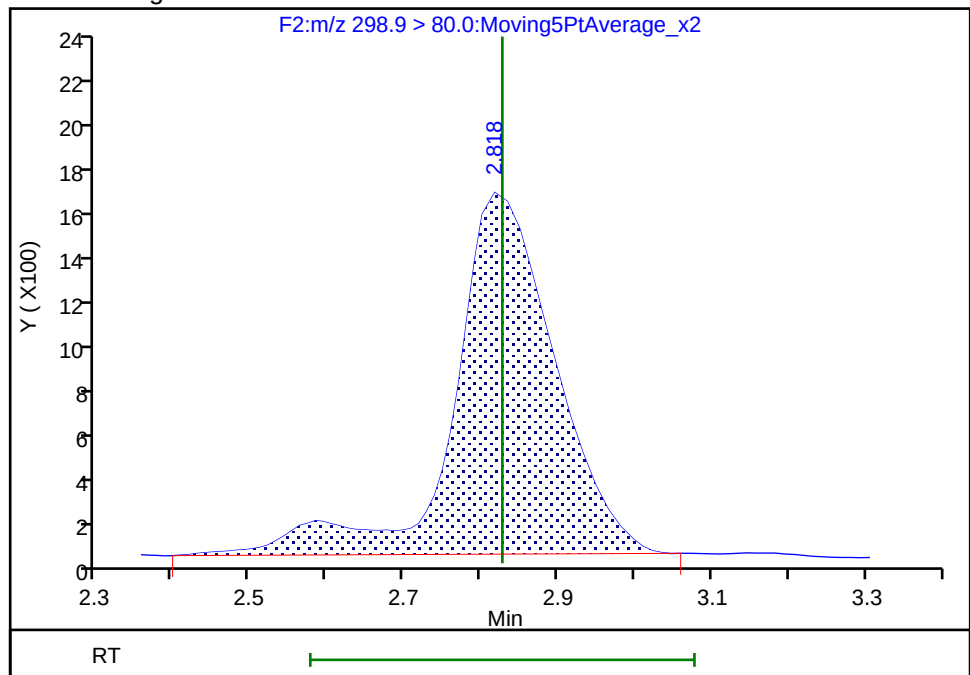
RT: 2.82  
Area: 12084  
Amount: 2.177099  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.82  
Area: 14402  
Amount: 2.333992  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:41:32  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

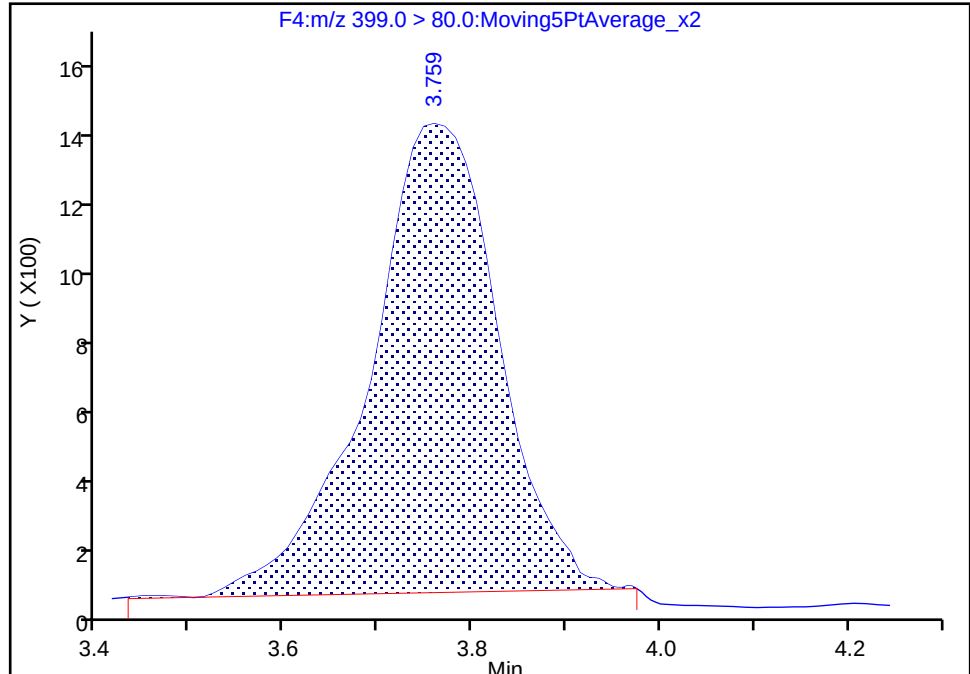
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d  
Injection Date: 12-Oct-2018 17:45:01 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F4:MRM

**12 Perfluorohexanesulfonic acid, CAS: 355-46-4**

Signal: 1

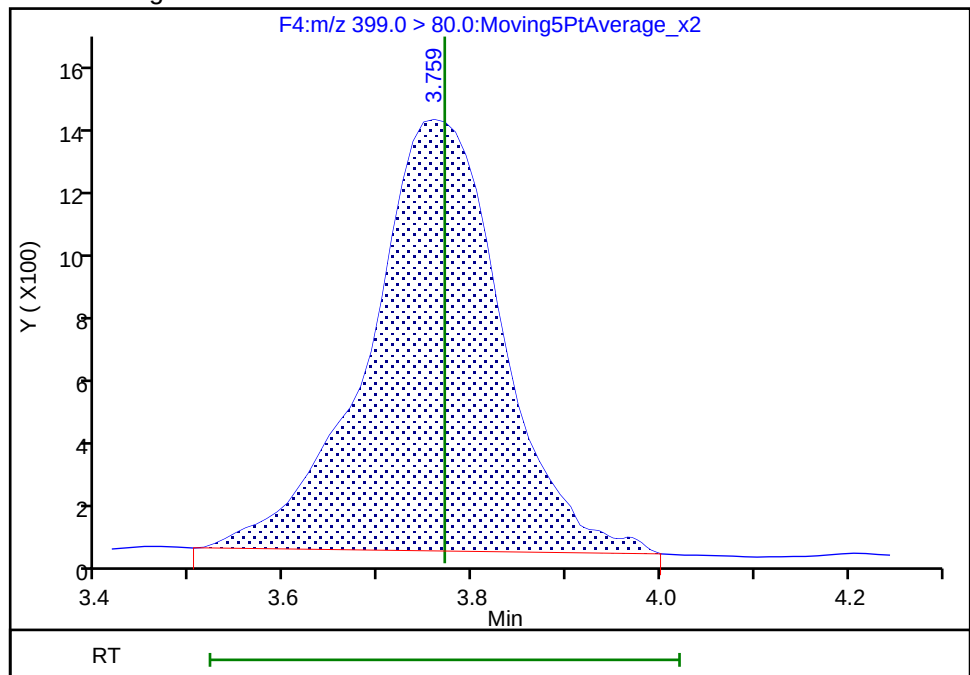
RT: 3.76  
Area: 12601  
Amount: 1.740362  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.76  
Area: 13200  
Amount: 1.874072  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:41:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d

Injection Date: 12-Oct-2018 17:45:01

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

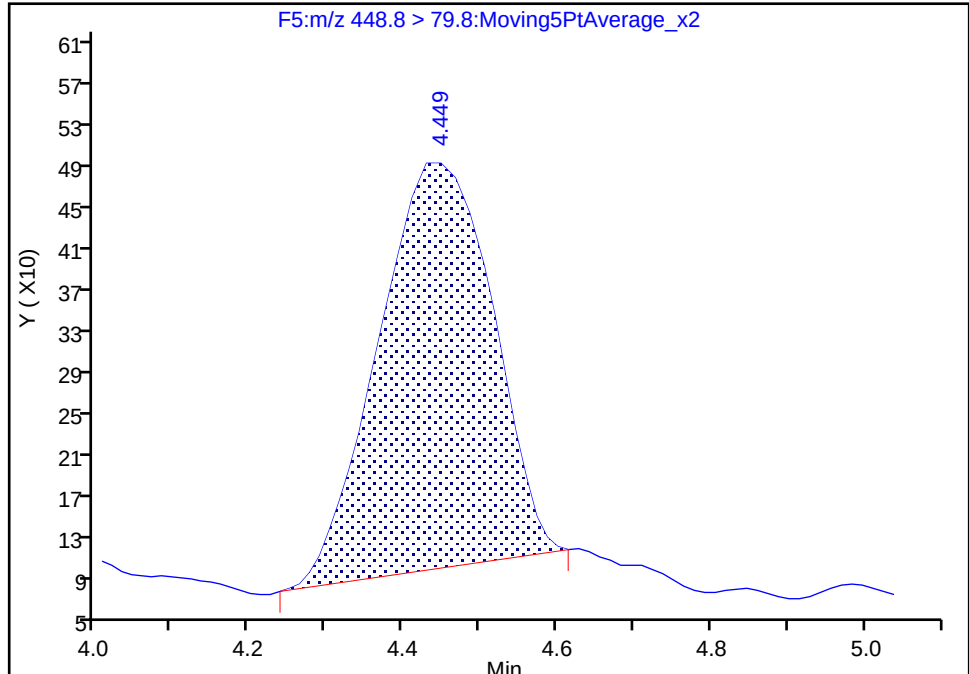
Detector F5:MRM

**18 Perfluoroheptanesulfonic acid, CAS: 375-92-8**

Signal: 1

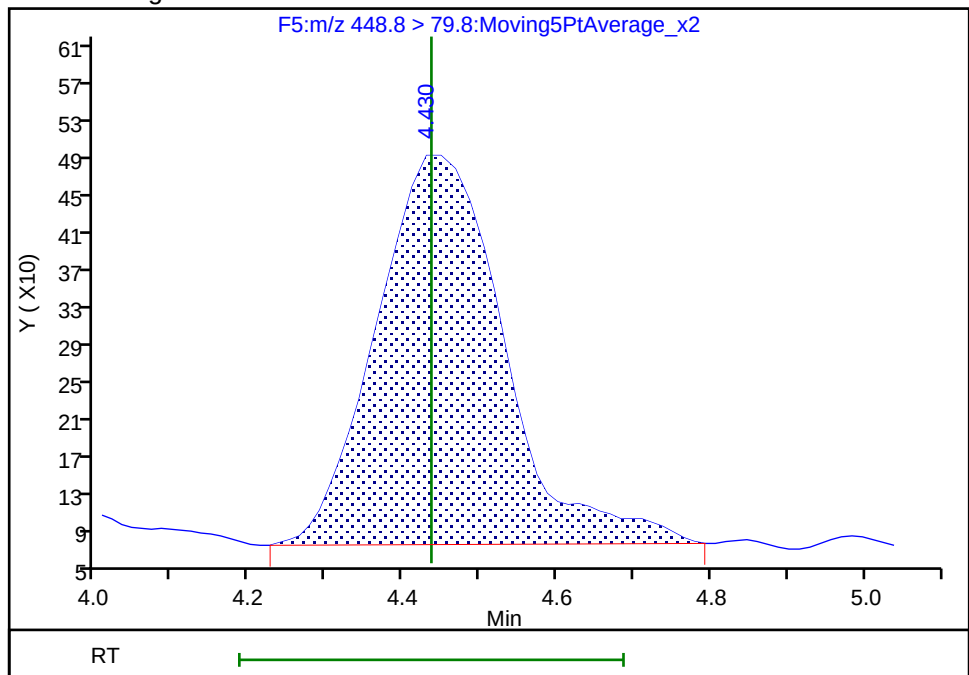
RT: 4.45  
Area: 4019  
Amount: 1.657072  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.43  
Area: 4775  
Amount: 1.772492  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:41:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

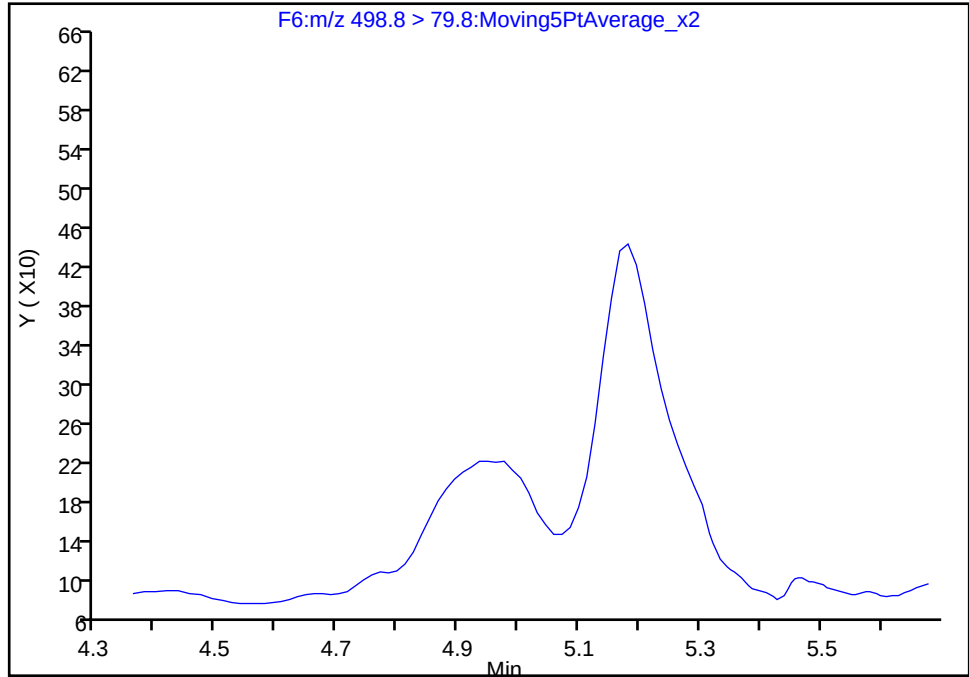
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d  
Injection Date: 12-Oct-2018 17:45:01 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

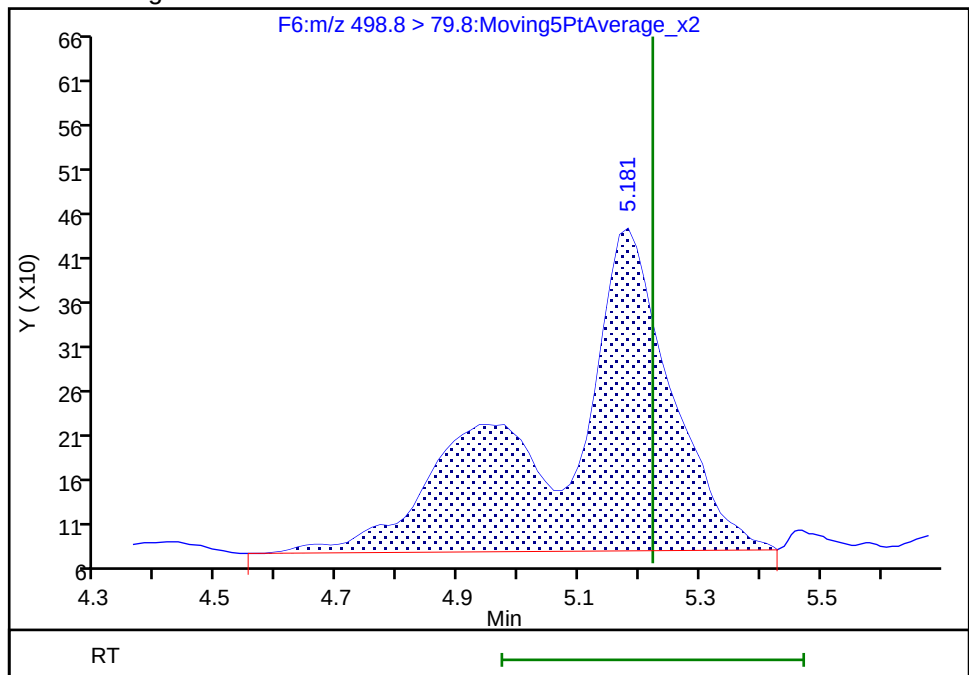
Signal: 1

Not Detected  
Expected RT: 5.22

## Processing Integration Results



## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:41:06  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

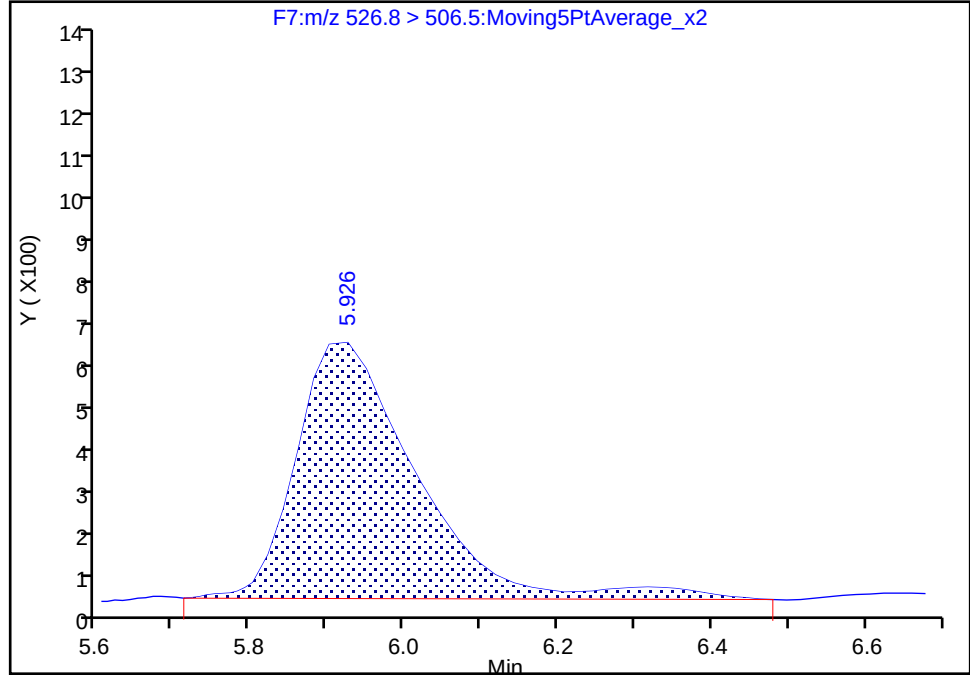
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d  
Injection Date: 12-Oct-2018 17:45:01 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F7:MRM

**23 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4**

Signal: 1

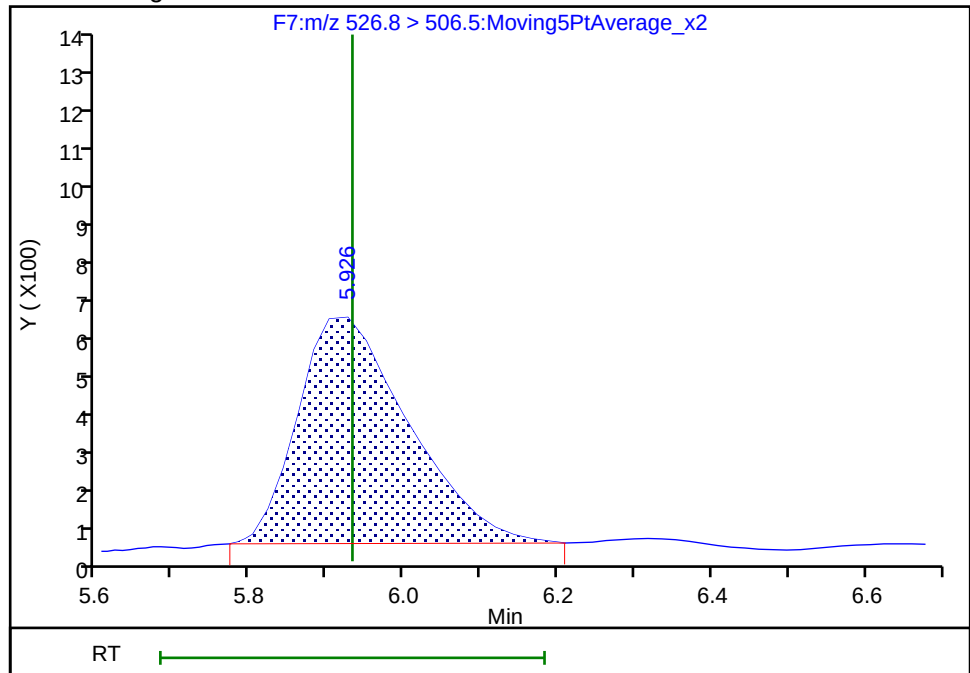
RT: 5.93  
Area: 6093  
Amount: 2.034774  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.93  
Area: 5469  
Amount: 1.853470  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:41:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

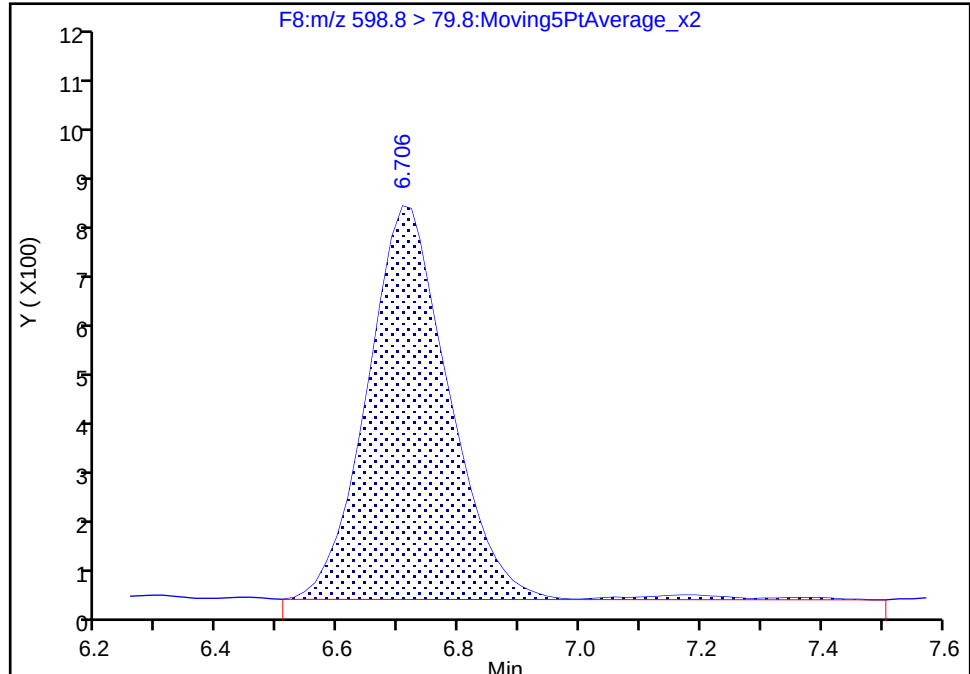
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d  
Injection Date: 12-Oct-2018 17:45:01 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F8:MRM

**31 Perfluorodecanesulfonic acid, CAS: 335-77-3**

Signal: 1

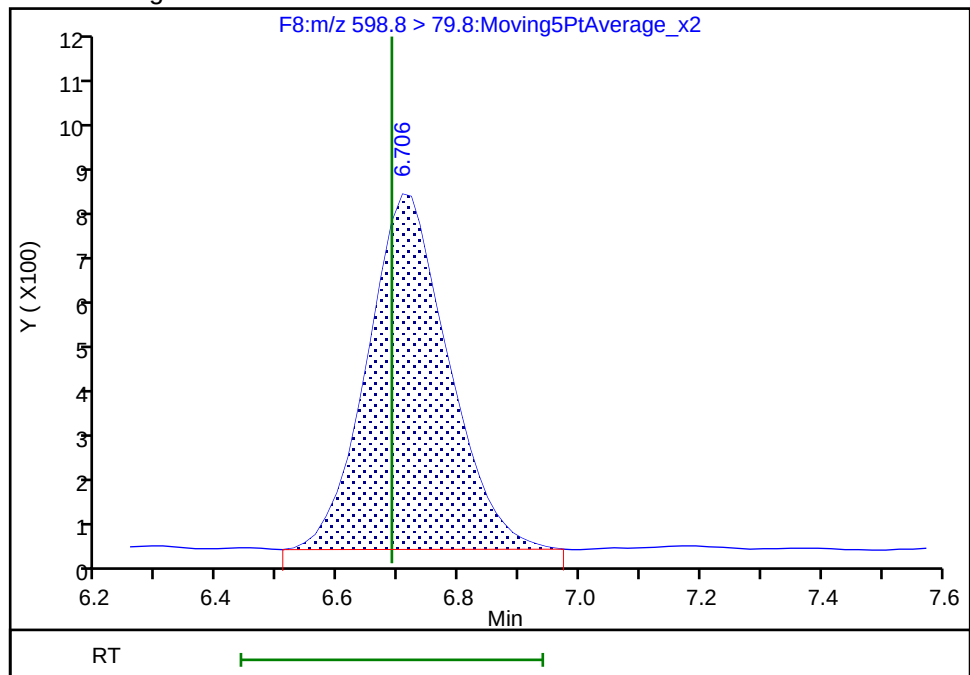
RT: 6.71  
Area: 7191  
Amount: 1.916451  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.71  
Area: 7052  
Amount: 2.018472  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:42:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d

Injection Date: 12-Oct-2018 17:45:01

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

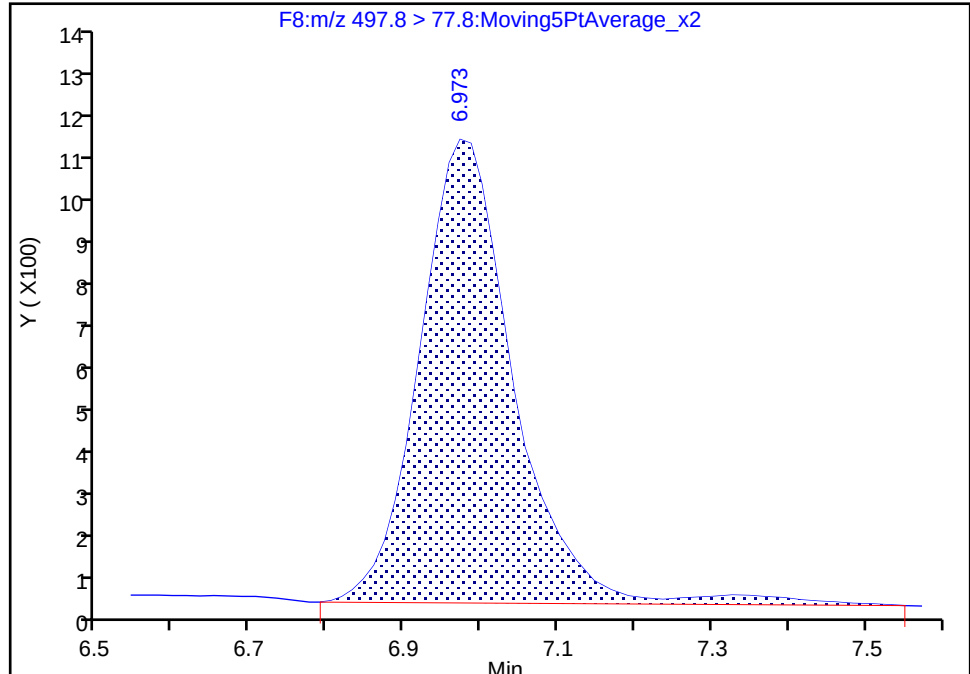
Detector F8:MRM

**34 Perfluorooctanesulfonamide, CAS: 754-91-6**

Signal: 1

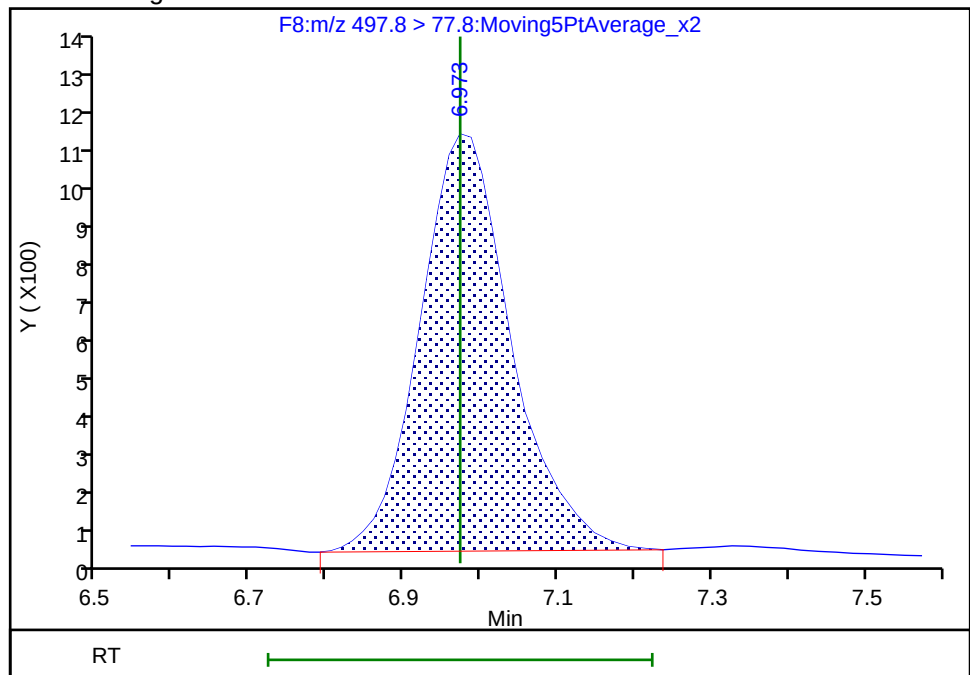
RT: 6.97  
Area: 9055  
Amount: 1.978333  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.97  
Area: 8685  
Amount: 1.842903  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:42:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d

Injection Date: 12-Oct-2018 17:45:01

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

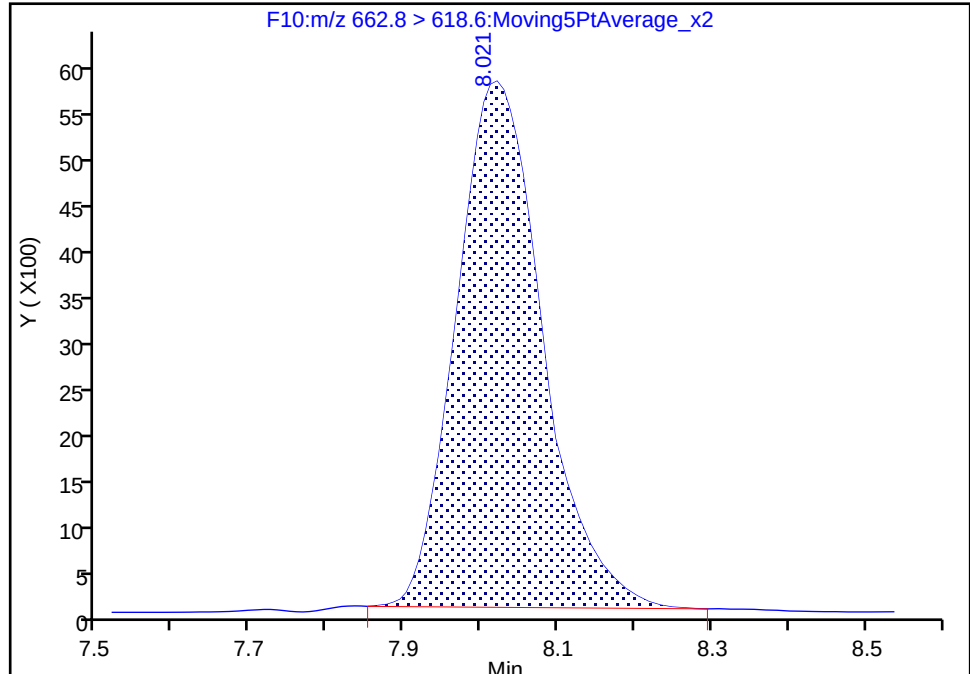
Detector F10:MRM

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

Signal: 1

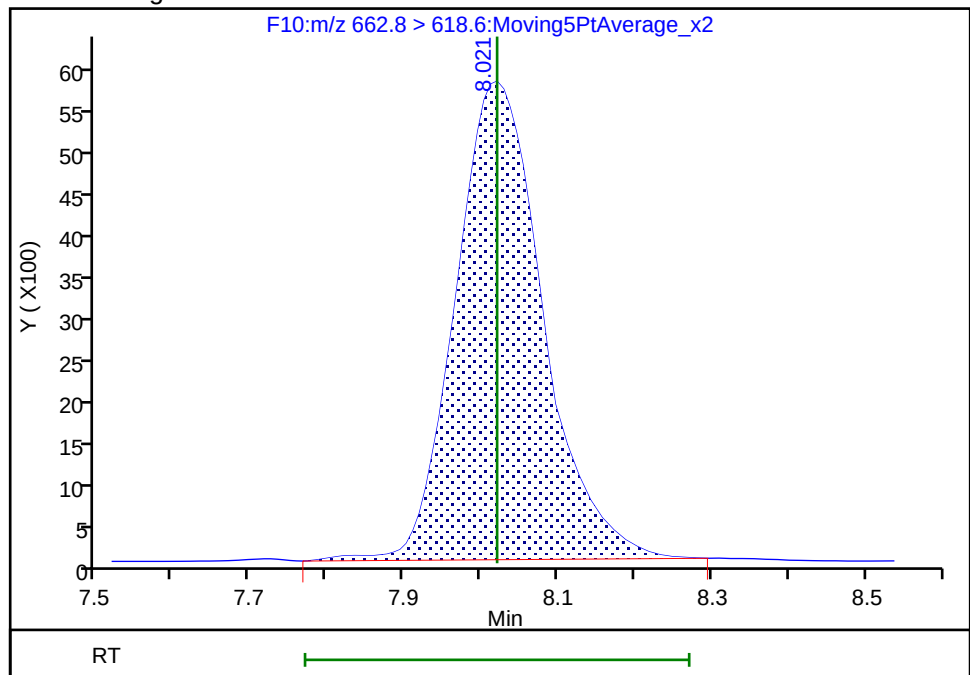
RT: 8.02  
Area: 44055  
Amount: 1.936062  
Amount Units: ng/ml

## Processing Integration Results



RT: 8.02  
Area: 44973  
Amount: 2.025758  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:42:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

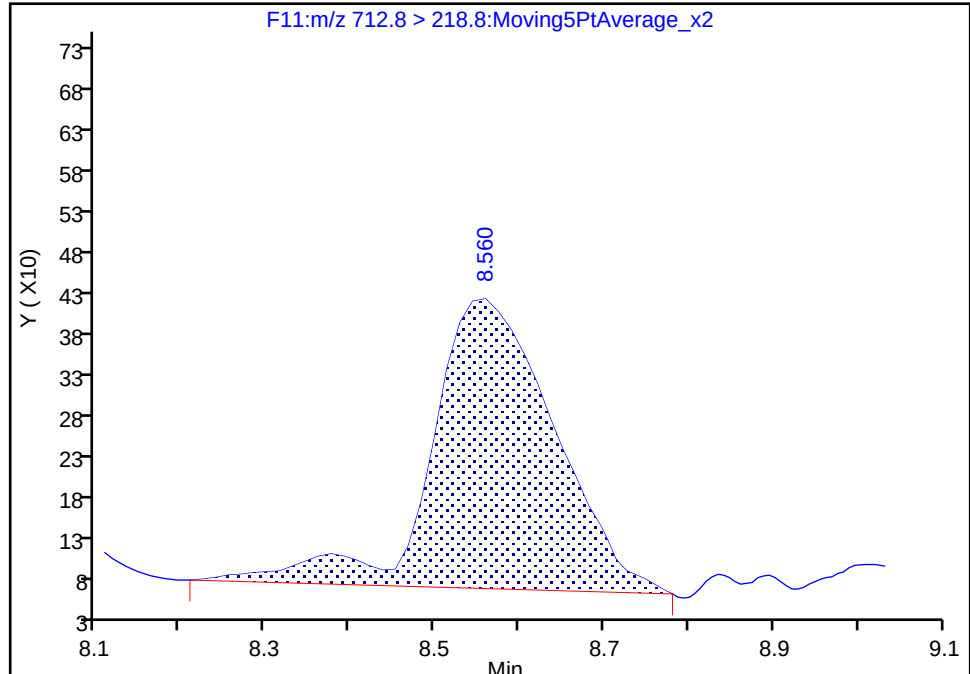
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A07.d  
Injection Date: 12-Oct-2018 17:45:01 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F11:MRM

**39 Perfluorotetradecanoic acid, CAS: 376-06-7**

Signal: 3

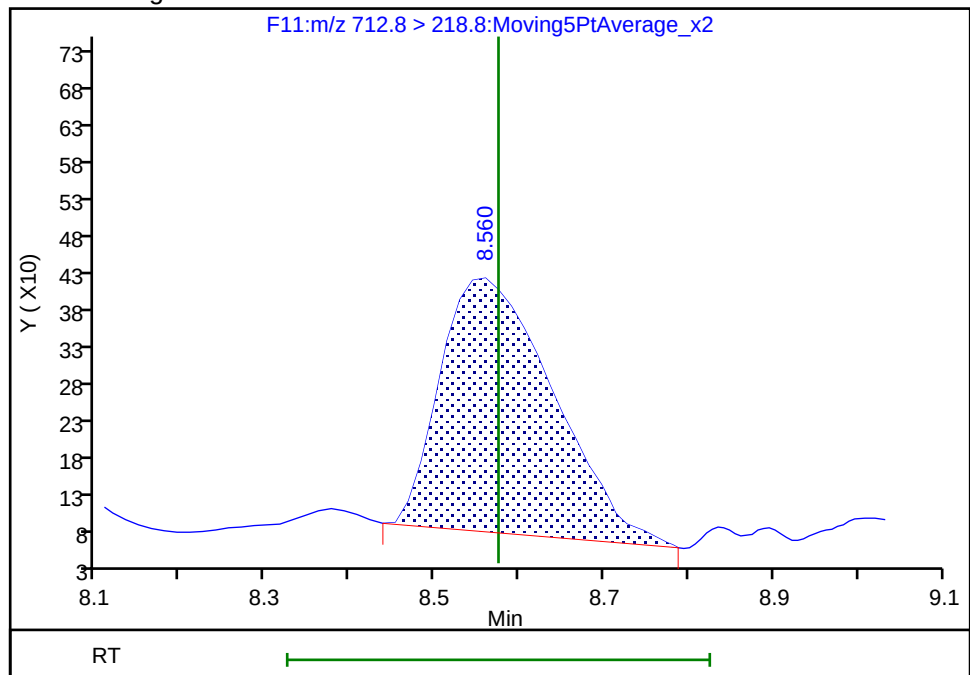
RT: 8.56  
Area: 3604  
Amount: 2.182541  
Amount Units: ng/ml

## Processing Integration Results



RT: 8.56  
Area: 3195  
Amount: 2.241588  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:42:24  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A08.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 12-Oct-2018 18:00:51 ALS Bottle#: 0 Worklist Smp#: 8  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-008 IC 3  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:23:26 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 12-Oct-2018 21:43:42

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |        |        |        |          |              |               |      |      |       |
| 216.9 > 171.5                         | 2.343 | 2.345  | -0.002 | 1.000  | 473445   | 55.7         |               | 111  | 997  |       |
| 2 Perfluorobutanoic acid              |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                         | 2.347 | 2.345  | 0.002  | 1.002  | 41193    | 4.54         |               | 90.8 | 69.2 | M     |
| D 3 13C5 PFPeA                        |       |        |        |        |          |              |               |      |      |       |
| 267.7 > 222.6                         | 2.760 | 2.763  | -0.003 | 1.000  | 123286   | 60.5         |               | 121  | 936  |       |
| 4 Perfluoropentanoic acid             |       |        |        |        |          |              |               |      |      | M     |
| 262.9 > 218.8                         | 2.760 | 2.764  | -0.004 | 1.000  | 76614    | 4.59         |               | 91.8 | 243  | M     |
| D 6 13C3 PFBS                         |       |        |        |        |          |              |               |      |      |       |
| 302.0 > 79.8                          | 2.834 | 2.826  | 0.008  | 1.000  | 165445   | 55.4         |               | 119  | 1051 |       |
| 5 Perfluorobutanesulfonic acid        |       |        |        |        |          |              |               |      |      | M     |
| 298.9 > 80.0                          | 2.834 | 2.829  | 0.005  | 1.000  | 32206    | 4.45         |               | 89.0 | 220  | M     |
| D 7 13C2 PFHxA                        |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                         | 3.189 | 3.188  | 0.001  | 1.000  | 350151   | 56.4         |               | 113  | 4141 |       |
| 8 Perfluorohexanoic acid              |       |        |        |        |          |              |               |      |      |       |
| 312.8 > 268.6                         | 3.201 | 3.189  | 0.012  | 1.004  | 38900    | 5.23         |               | 105  | 694  |       |
| D 9 13C4 PFHpA                        |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                         | 3.726 | 3.725  | 0.001  | 1.000  | 934279   | 51.4         |               | 103  | 888  |       |
| 10 Perfluoroheptanoic acid            |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                         | 3.737 | 3.729  | 0.008  | 1.003  | 96288    | 5.13         |               | 103  | 285  |       |
| 12 Perfluorohexanesulfonic acid       |       |        |        |        |          |              |               |      |      | M     |
| 399.0 > 80.0                          | 3.770 | 3.765  | 0.005  | 1.000  | 37630    | 5.46         |               | 109  | 390  | M     |
| D 11 18O2 PFHxS                       |       |        |        |        |          |              |               |      |      | M     |
| 402.9 > 83.8                          | 3.770 | 3.770  | 0.0    | 1.000  | 174546   | 48.5         |               | 103  | 378  | M     |
| D 13 M2-6:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                         | 4.355 | 4.353  | 0.002  | 1.000  | 29997    | 45.7         |               | 96.2 | 219  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 426.6 > 406.6                         | 4.355 | 4.365  | -0.010 | 1.000  | 4036     | 6.18         |               | 124  | 428  |       |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| * 15 13C2 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                         | 4.412 | 4.401  | 0.011  |        | 788463   | 50.0         |               |      | 6770 |       |
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                         | 4.412 | 4.407  | 0.005  | 1.000  | 751551   | 51.5         |               | 103  | 1903 |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 412.9 > 368.8                         | 4.412 | 4.409  | 0.003  | 1.000  | 84299    | 5.36         |               | 107  | 755  |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |      |      |       |
| 448.8 > 79.8                          | 4.468 | 4.441  | 0.027  | 0.860  | 14438    | 5.01         |               | 100  | 108  | M     |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |      |      |       |
| 467.8 > 422.8                         | 5.168 | 5.171  | -0.003 | 1.000  | 992711   | 53.2         |               | 106  | 1285 |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 462.8 > 418.8                         | 5.181 | 5.175  | 0.006  | 1.003  | 116976   | 5.05         |               | 101  | 455  |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |      |      |       |
| 502.8 > 79.8                          | 5.195 | 5.195  | 0.0    | 1.000  | 156618   | 51.9         |               | 109  | 661  |       |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 498.8 > 79.8                          | 5.195 | 5.202  | -0.007 | 1.000  | 18336    | 5.42         |               | 108  | 164  | M     |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 528.8 > 508.8                         | 5.950 | 5.929  | 0.021  | 1.000  | 231590   | 46.9         |               | 98.0 | 495  |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 526.8 > 506.5                         | 5.950 | 5.932  | 0.018  | 1.000  | 18251    | 5.25         |               | 105  | 70.0 |       |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |      |      |       |
| 514.9 > 469.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 1103878  | 53.9         |               | 108  | 2250 |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 512.9 > 468.5                         | 5.974 | 5.950  | 0.024  | 1.004  | 110535   | 5.05         |               | 101  | 443  |       |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 572.8 > 418.8                         | 6.313 | 6.311  | 0.002  | 1.000  | 269182   | 46.7         |               | 93.4 | 1058 |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |      |      |       |
| 569.8 > 418.8                         | 6.331 | 6.313  | 0.018  | 1.003  | 31141    | 5.48         |               | 110  | 79.1 |       |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 588.9 > 418.8                         | 6.688 | 6.674  | 0.014  | 1.000  | 247506   | 49.4         |               | 98.9 | 1012 |       |
| 31 Perfluorodecanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 598.8 > 79.8                          | 6.706 | 6.697  | 0.009  | 1.291  | 20467    | 5.48         |               | 110  | 238  |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |      |      |       |
| 583.9 > 418.8                         | 6.706 | 6.706  | 0.0    | 1.003  | 28866    | 5.93         |               | 119  | 291  |       |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |      |      |       |
| 564.8 > 519.8                         | 6.720 | 6.720  | 0.0    | 1.000  | 1177783  | 50.2         |               | 100  | 4115 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 562.8 > 518.6                         | 6.720 | 6.720  | 0.0    | 1.000  | 117484   | 5.63         |               | 113  | 583  |       |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |      |      |       |
| 505.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 287132   | 53.7         |               | 107  | 2099 |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |               |      |      |       |
| 497.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 27312    | 5.54         |               | 111  | 209  |       |
| D 37 13C2 PFDoA                       |       |        |        |        |          |              |               |      |      |       |
| 614.8 > 569.6                         | 7.407 | 7.402  | 0.005  | 1.000  | 1252345  | 48.7         |               | 97.5 | 2648 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 612.8 > 568.6                         | 7.407 | 7.407  | 0.0    | 1.000  | 105787   | 4.88         |               | 97.7 | 501  |       |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |      |      |       |
| 662.8 > 618.6                         | 8.029 | 8.021  | 0.008  | 0.936  | 123165   | 5.31         |               | 106  | 333  |       |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A08.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.575 | 8.563     | 0.012     | 1.000     | 1245930  | 49.9            |                 | 99.7 | 1675 |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      |       |
| 712.8 > 668.6                  | 8.575 | 8.575     | 0.0       | 1.000     | 133907   | 5.50            |                 | 110  | 578  |       |
| 712.8 > 168.8                  | 8.575 | 8.575     | 0.0       | 1.000     | 27686    |                 | 4.84(0.00-0.00) | 110  | 144  |       |
| 712.8 > 218.8                  | 8.575 | 8.575     | 0.0       | 1.000     | 14484    |                 | 9.25(0.00-0.00) | 110  | 113  |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L3\_00003

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A08.d

Injection Date: 12-Oct-2018 18:00:51

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

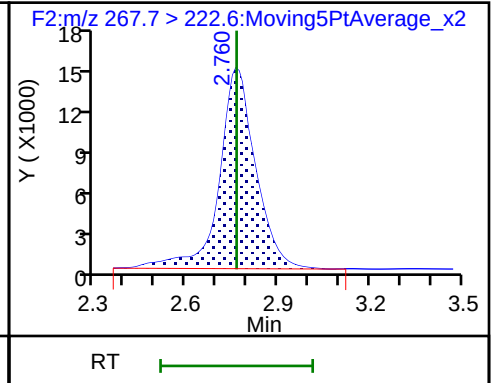
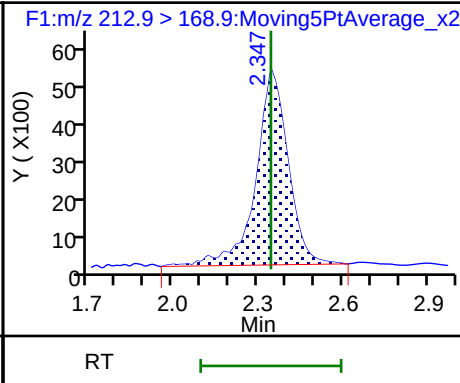
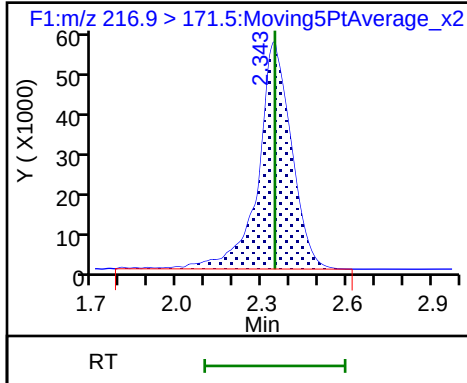
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

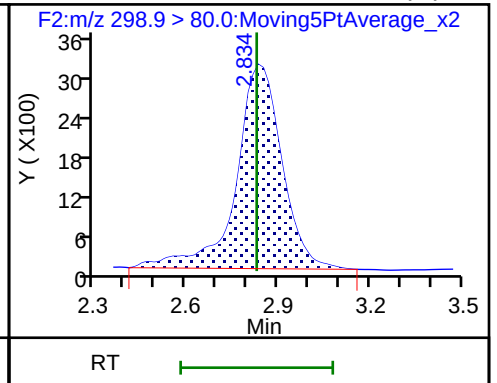
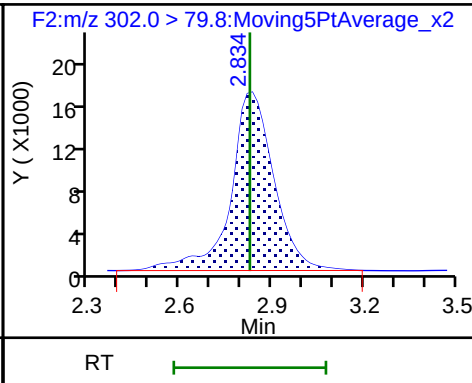
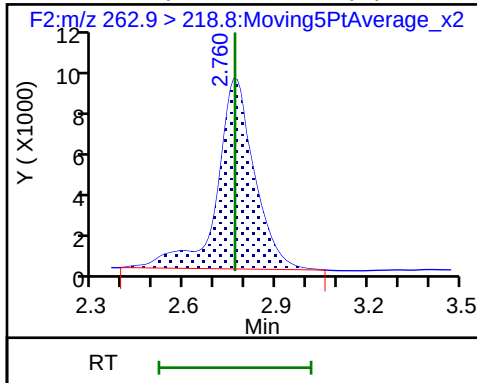
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS

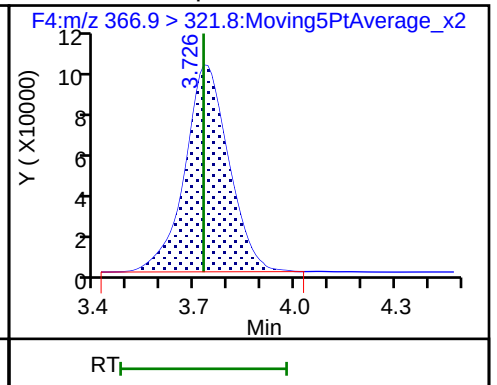
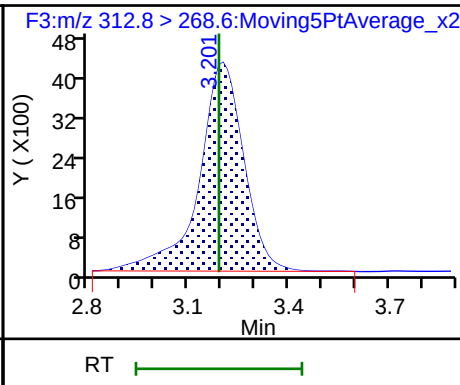
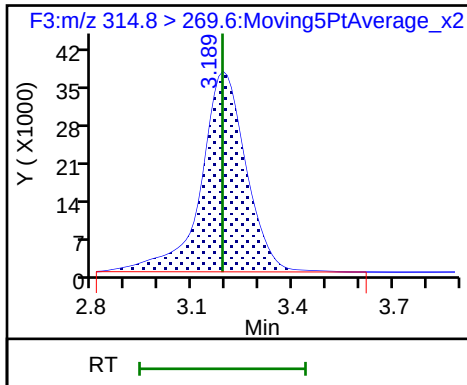
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

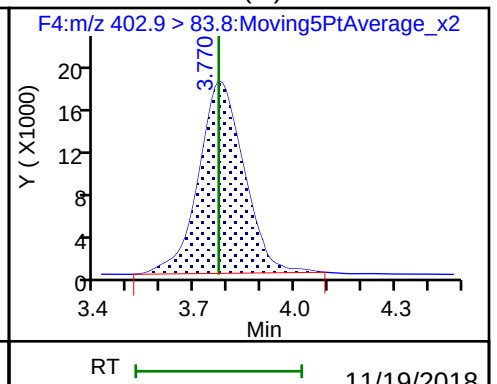
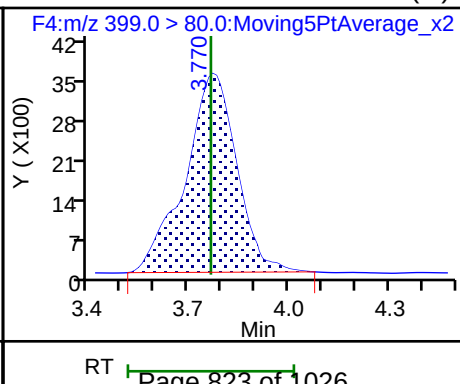
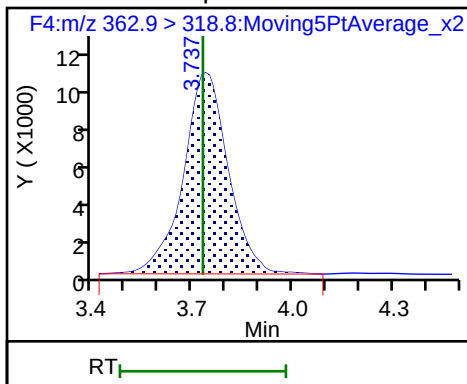
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid (M)

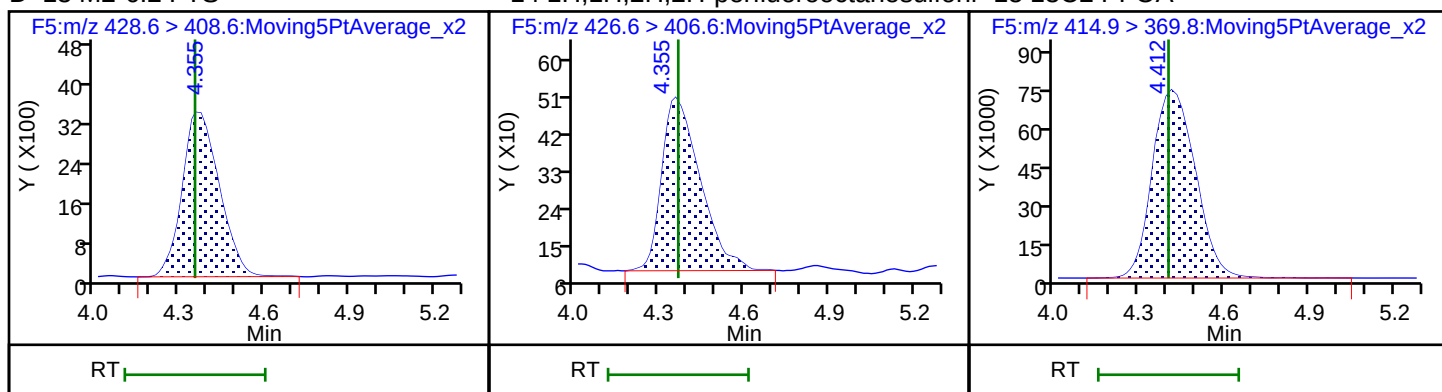
D 11 18O2 PFHxS (M)



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

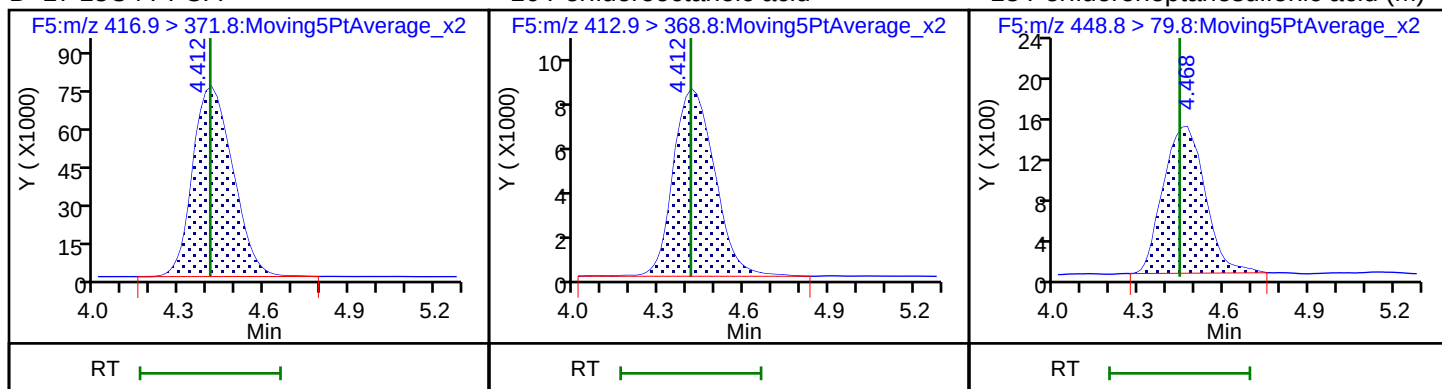
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

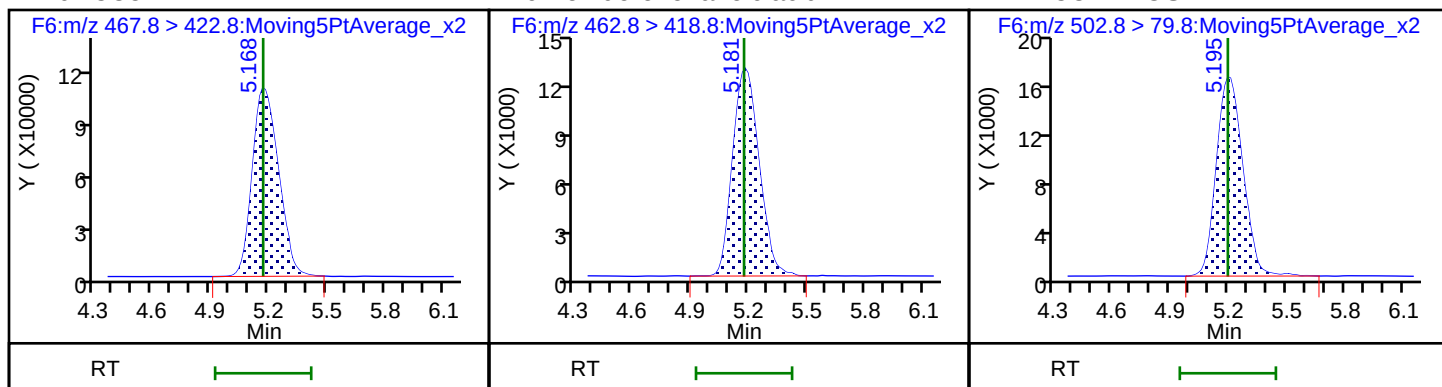
18 Perfluoroheptanesulfonic acid (M)



D 20 13C5 PFNA

19 Perfluorononanoic acid

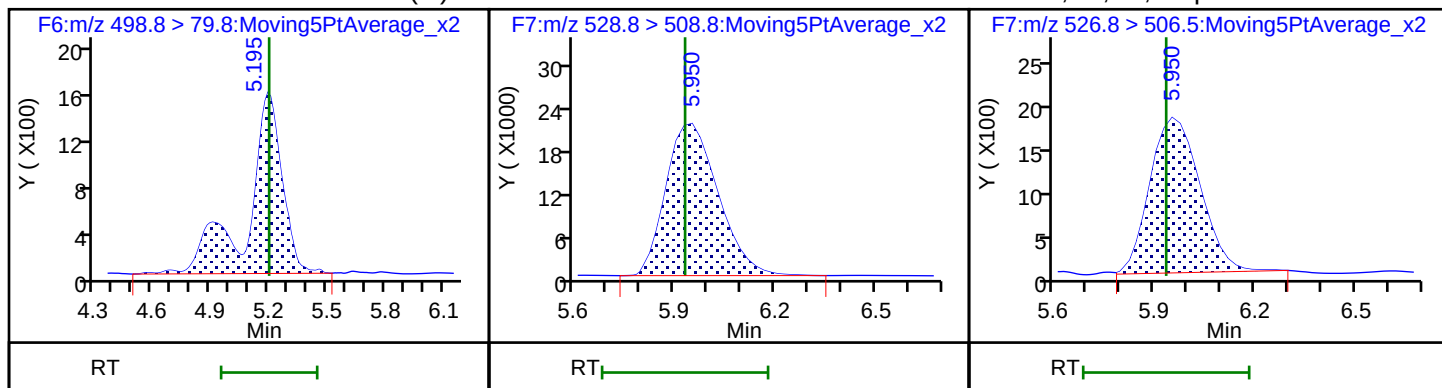
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

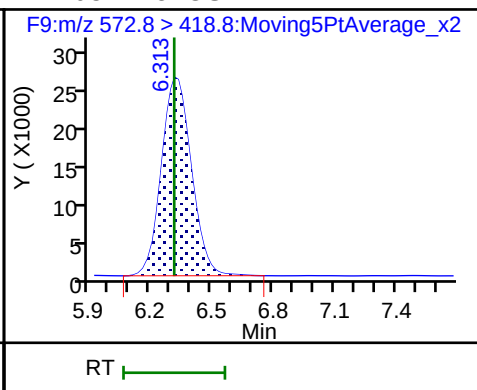
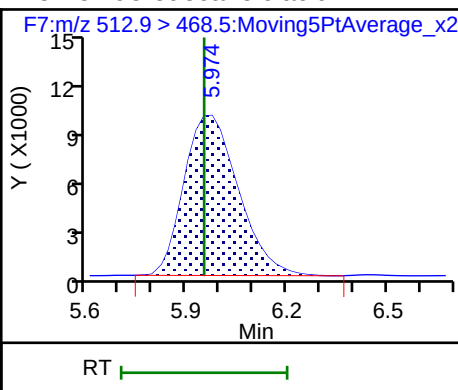
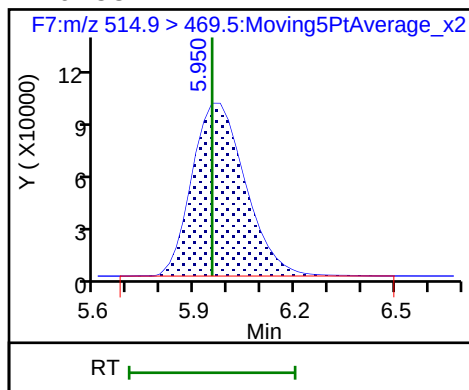
23 1H,1H,2H,2H-perfluorodecanesulfonate



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

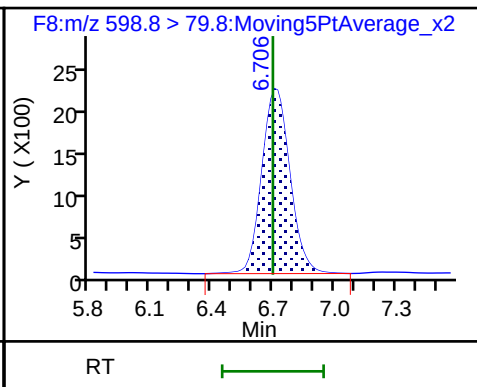
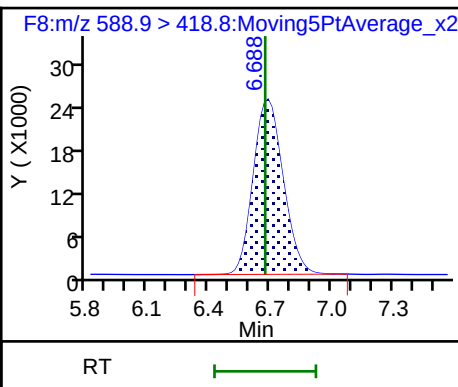
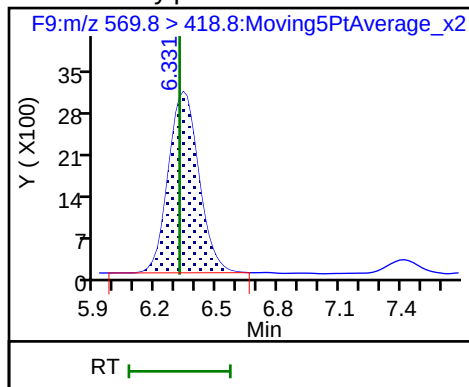
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamidD

## 29 d5-NEtFOSAA

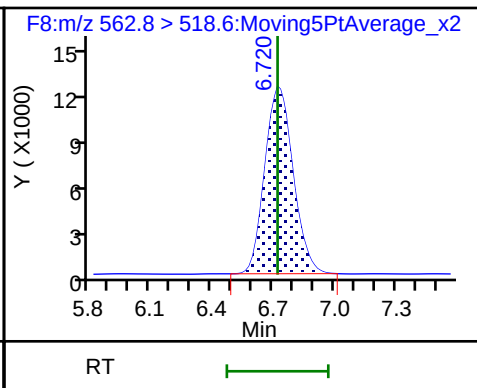
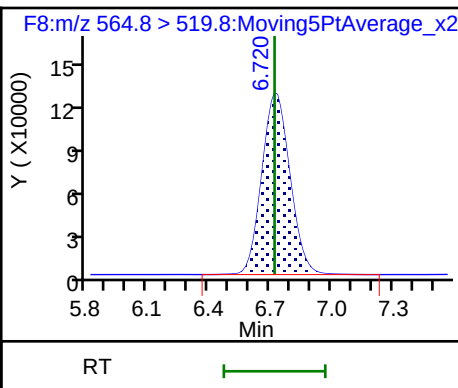
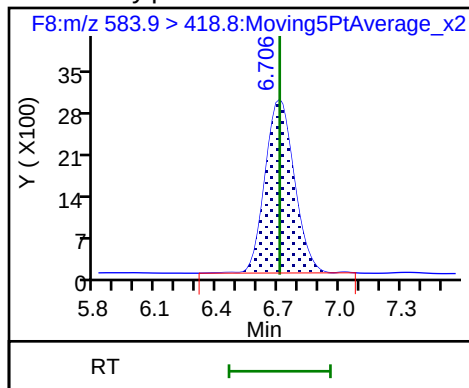
## 31 Perfluorodecanesulfonic acid



## 30 N-ethylperfluorooctanesulfonamidD

## 32 13C2 PFUnA

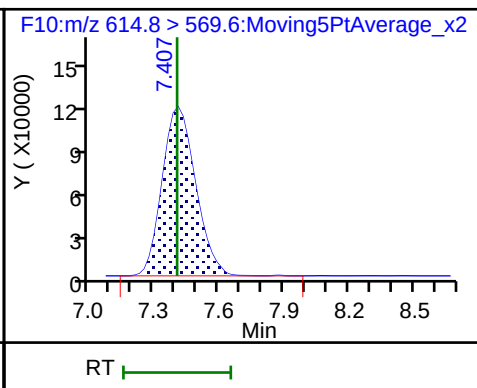
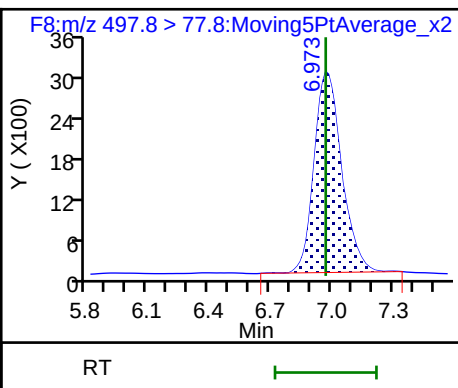
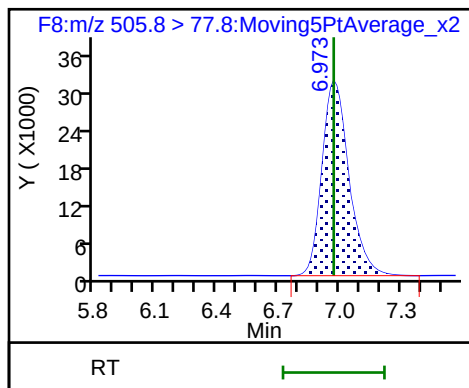
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

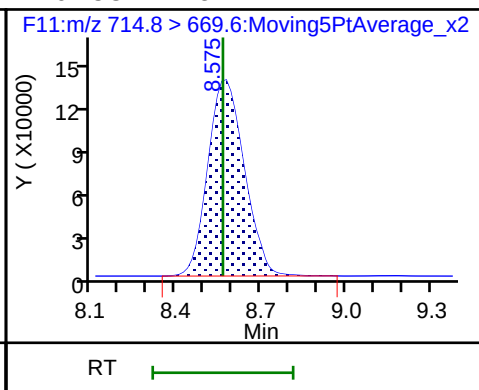
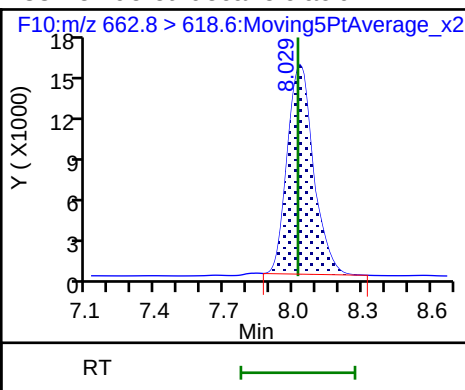
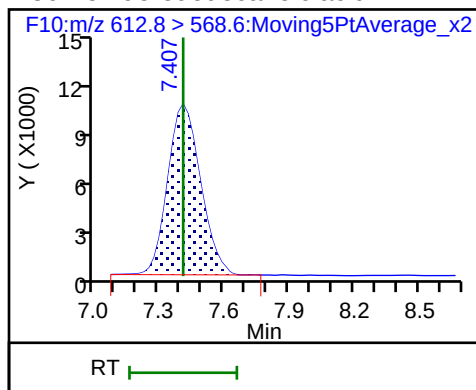
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

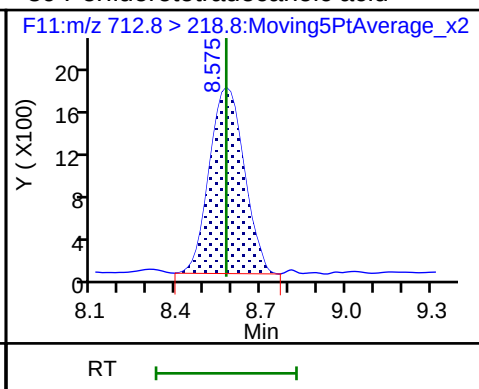
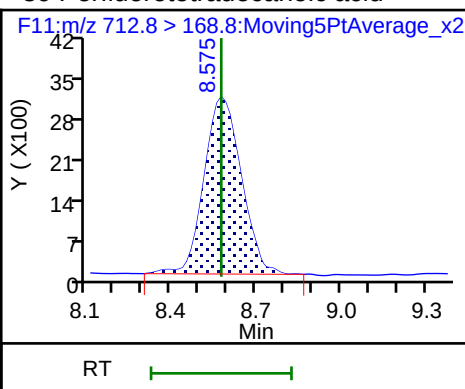
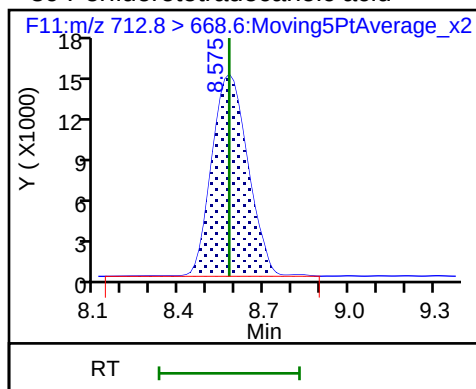
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

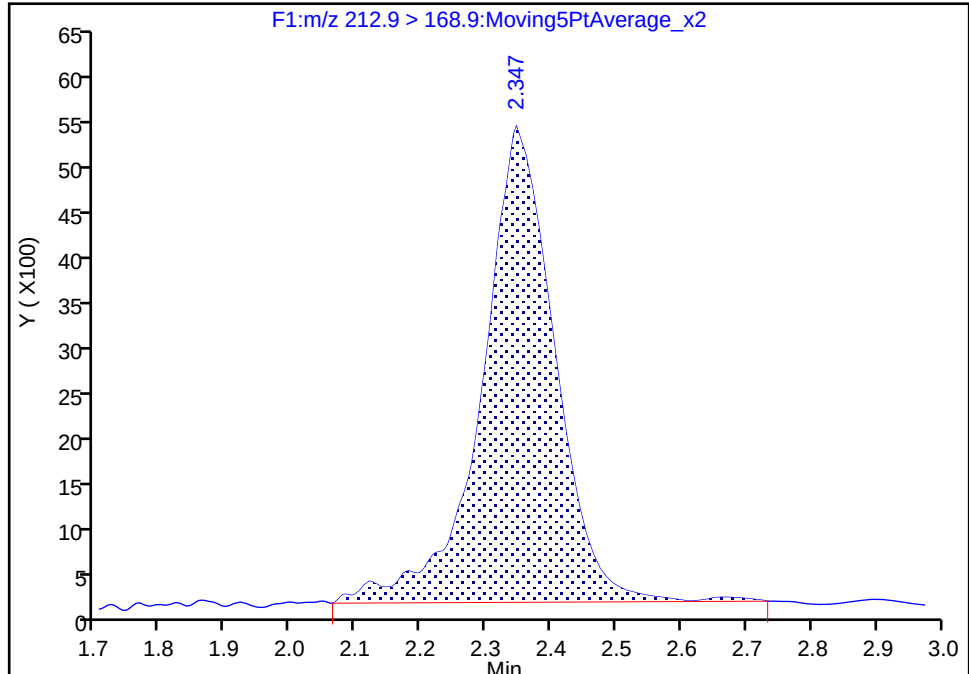
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A08.d |                |             |
| Injection Date: | 12-Oct-2018 18:00:51                                                | Instrument ID: | LC410       |
| Lims ID:        | IC                                                                  |                |             |
| Client ID:      |                                                                     |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector       | F1:MRM      |
|                 |                                                                     | Worklist Smp#: | 8           |

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

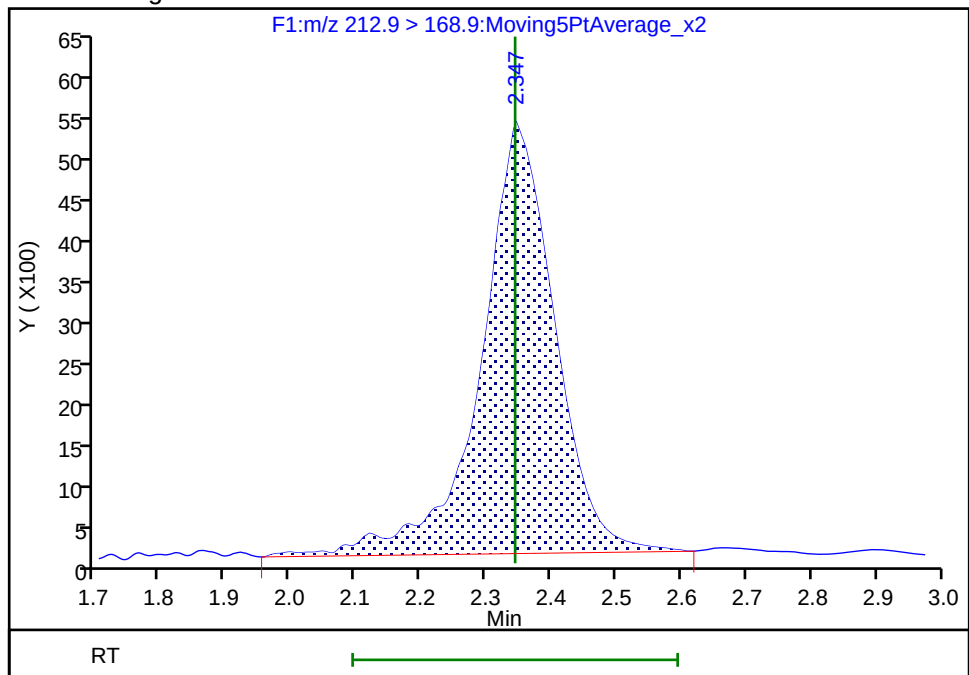
RT: 2.35  
Area: 40615  
Amount: 4.858295  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.35  
Area: 41193  
Amount: 4.540654  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:42:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A08.d

Injection Date: 12-Oct-2018 18:00:51

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

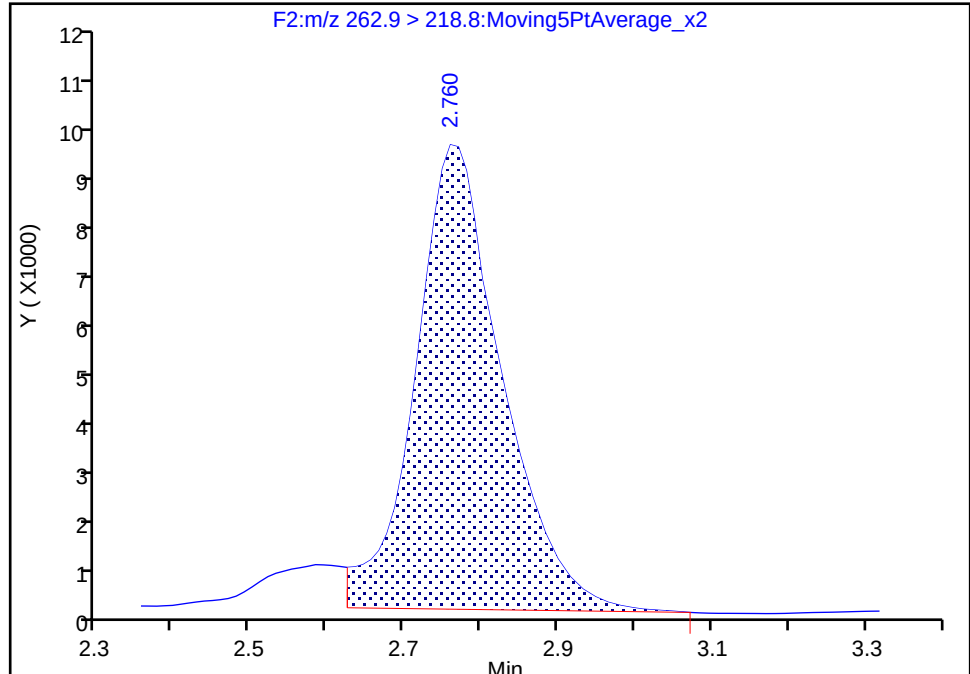
Detector F2:MRM

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

Signal: 1

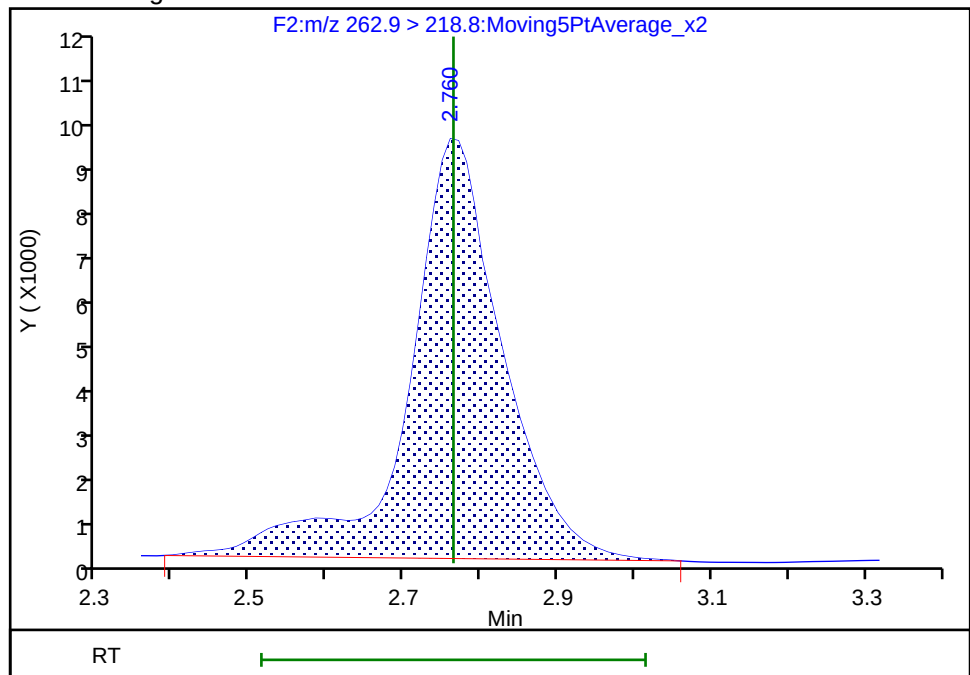
RT: 2.76  
Area: 70524  
Amount: 4.454816  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.76  
Area: 76614  
Amount: 4.588650  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:43:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

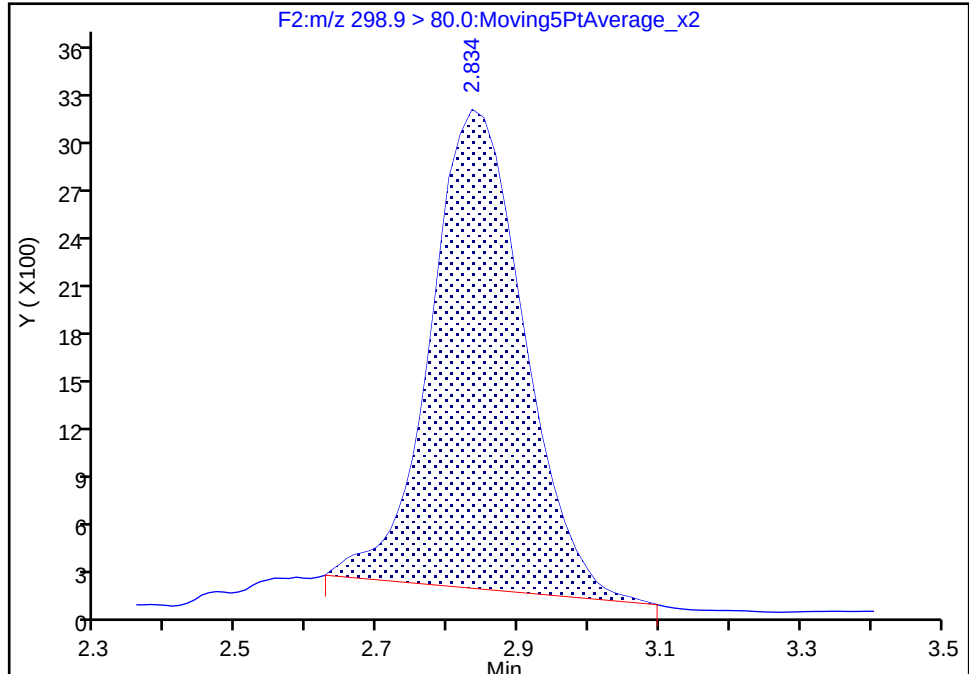
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A08.d |                |             |
| Injection Date: | 12-Oct-2018 18:00:51                                                | Instrument ID: | LC410       |
| Lims ID:        | IC                                                                  |                |             |
| Client ID:      |                                                                     |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector:      | F2:MRM      |
|                 |                                                                     | Worklist Smp#: | 8           |

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

Signal: 1

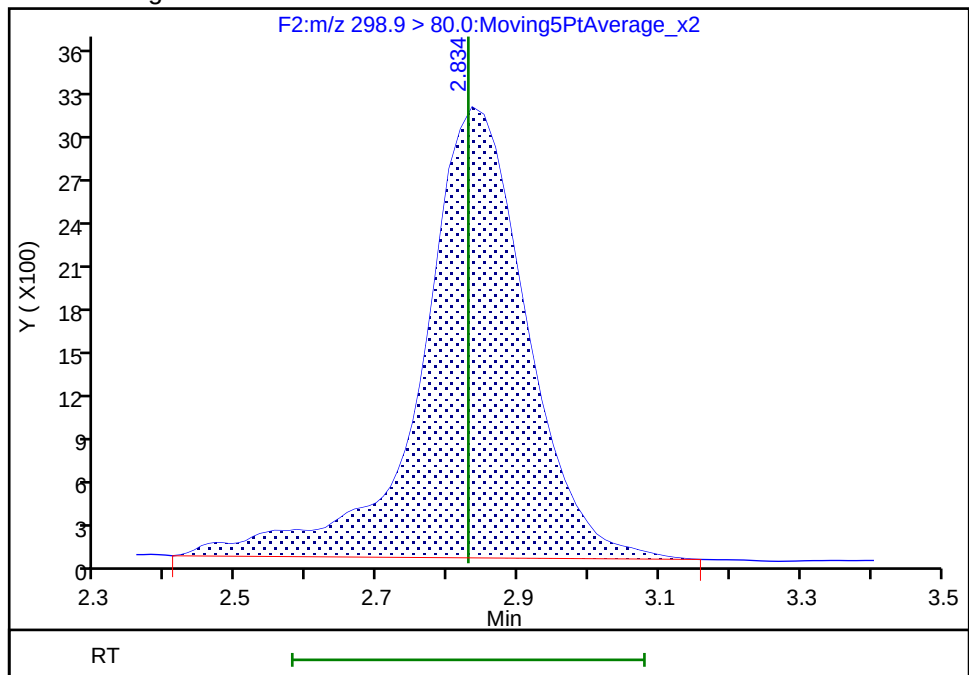
RT: 2.83  
Area: 27370  
Amount: 4.057684  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.83  
Area: 32206  
Amount: 4.451961  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:43:04  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

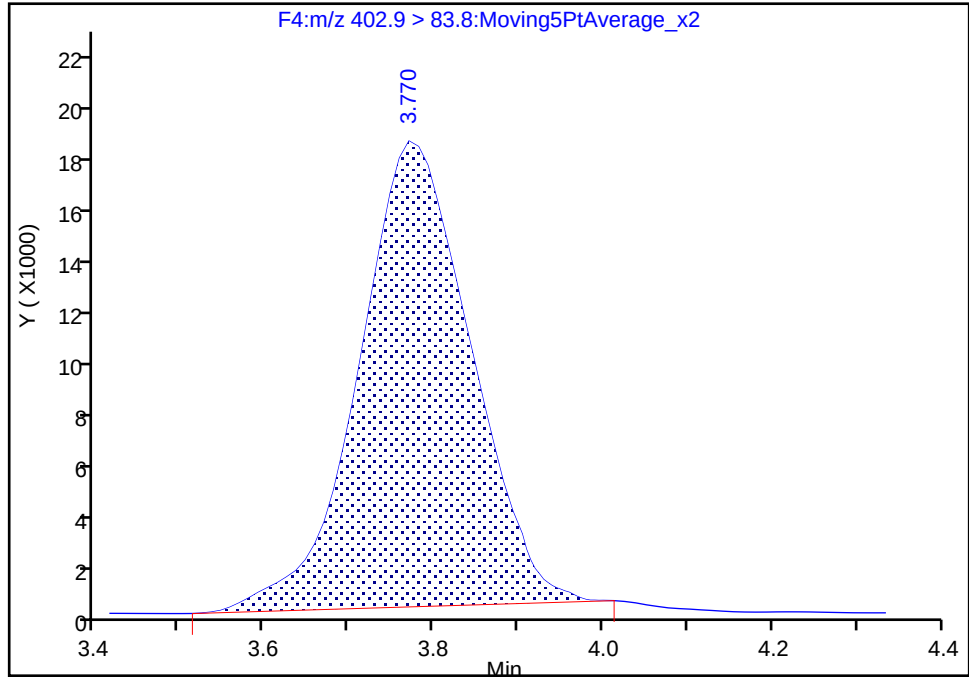
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A08.d  
Injection Date: 12-Oct-2018 18:00:51 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F4:MRM

**D 11 18O2 PFHxS, CAS: STL00994**

Signal: 1

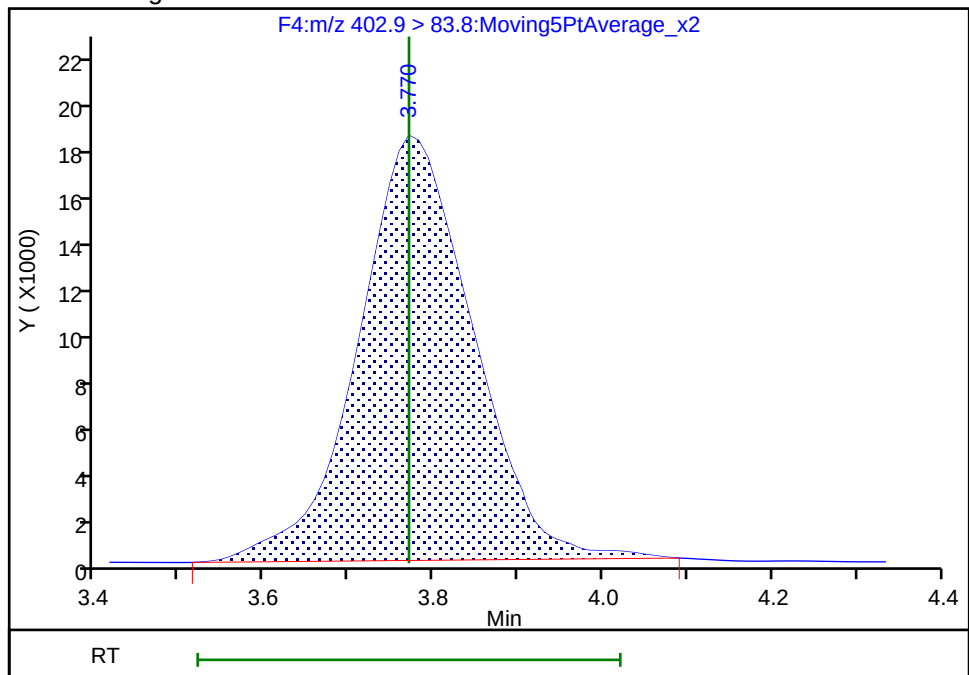
RT: 3.77  
Area: 168734  
Amount: 45.474235  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.77  
Area: 174546  
Amount: 48.524075  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:43:15  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

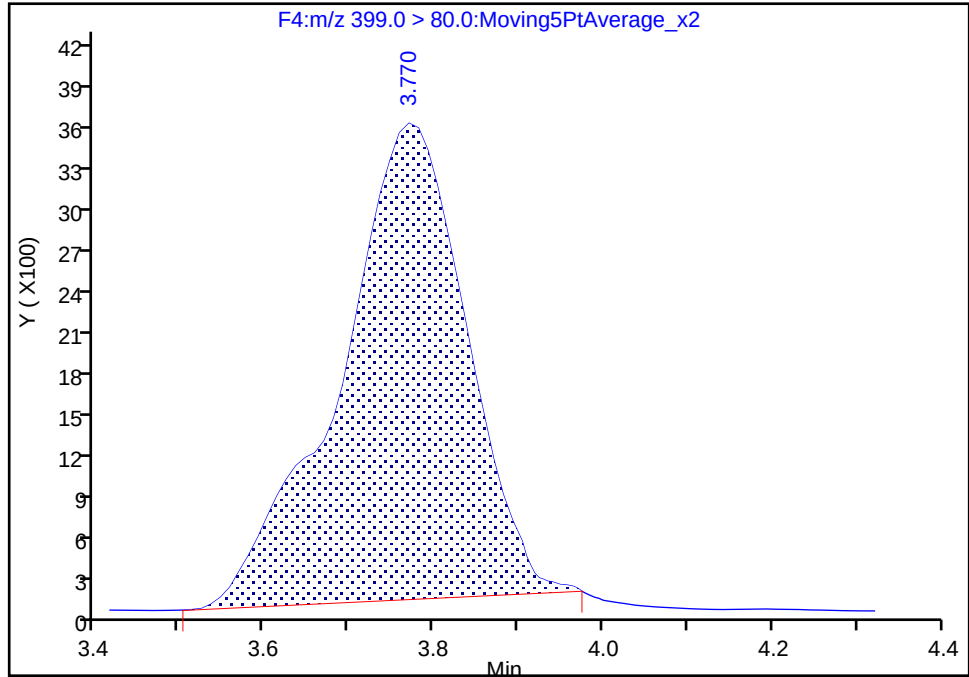
|                 |                                                                     |                |                    |
|-----------------|---------------------------------------------------------------------|----------------|--------------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A08.d |                |                    |
| Injection Date: | 12-Oct-2018 18:00:51                                                | Instrument ID: | LC410              |
| Lims ID:        | IC                                                                  |                |                    |
| Client ID:      |                                                                     |                |                    |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0 Worklist Smp#: 8 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000             |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL        |
| Column:         |                                                                     | Detector       | F4:MRM             |

**12 Perfluorohexanesulfonic acid, CAS: 355-46-4**

Signal: 1

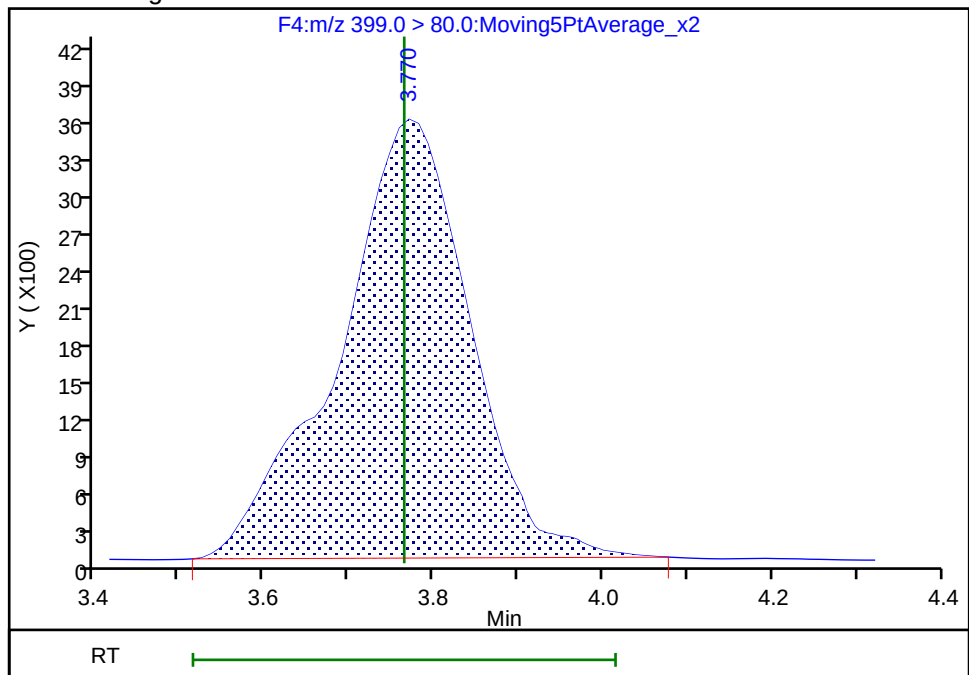
RT: 3.77  
Area: 35788  
Amount: 5.417548  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.77  
Area: 37630  
Amount: 5.464958  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:43:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

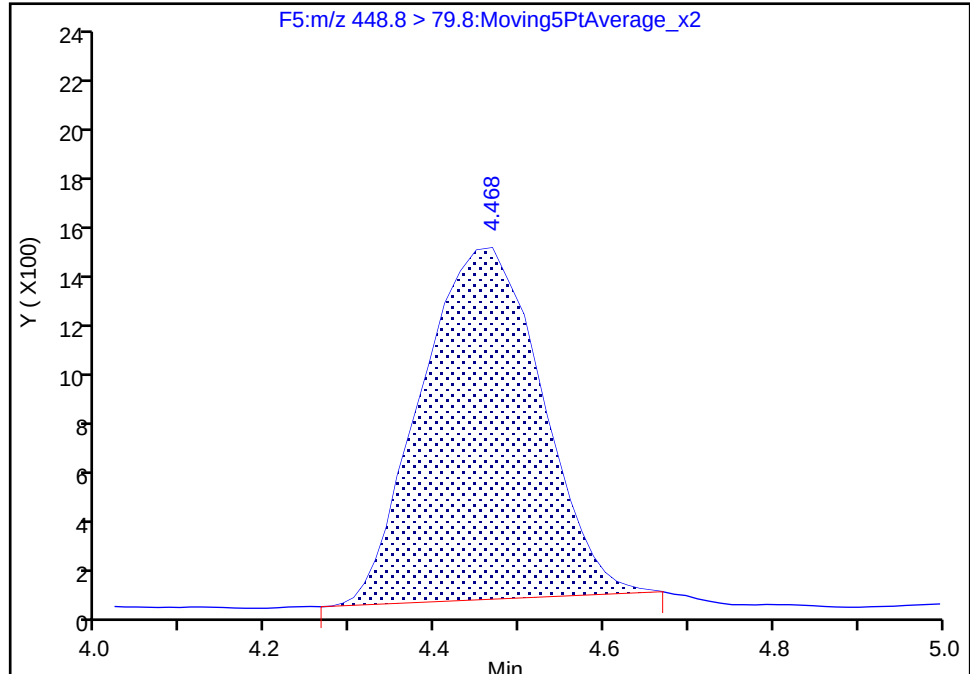
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A08.d  
Injection Date: 12-Oct-2018 18:00:51 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F5:MRM

**18 Perfluoroheptanesulfonic acid, CAS: 375-92-8**

Signal: 1

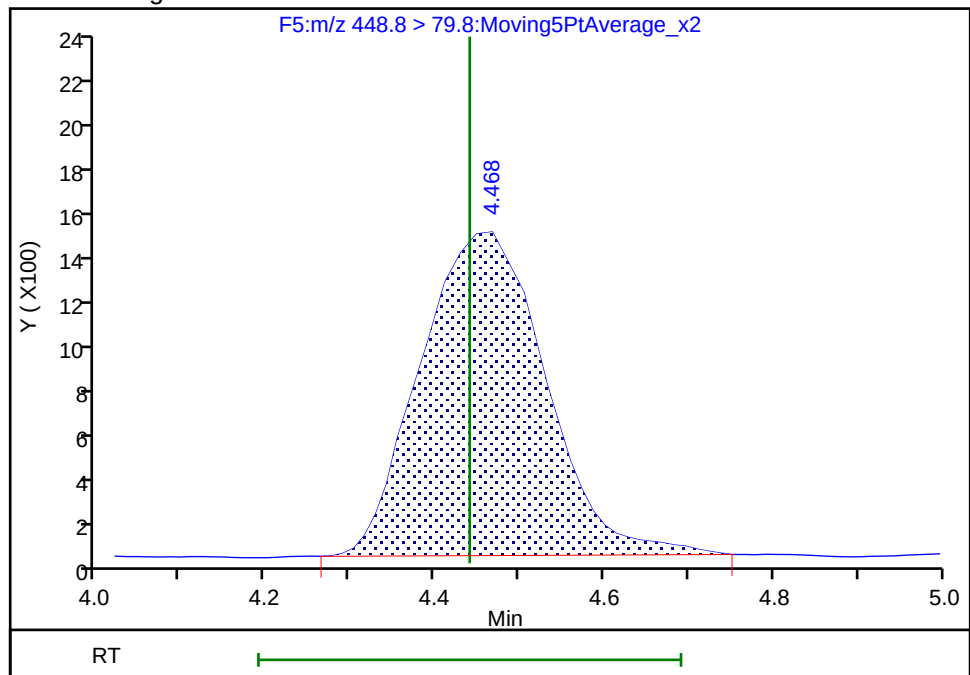
RT: 4.47  
Area: 13680  
Amount: 4.869861  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.47  
Area: 14438  
Amount: 5.013152  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:43:24  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

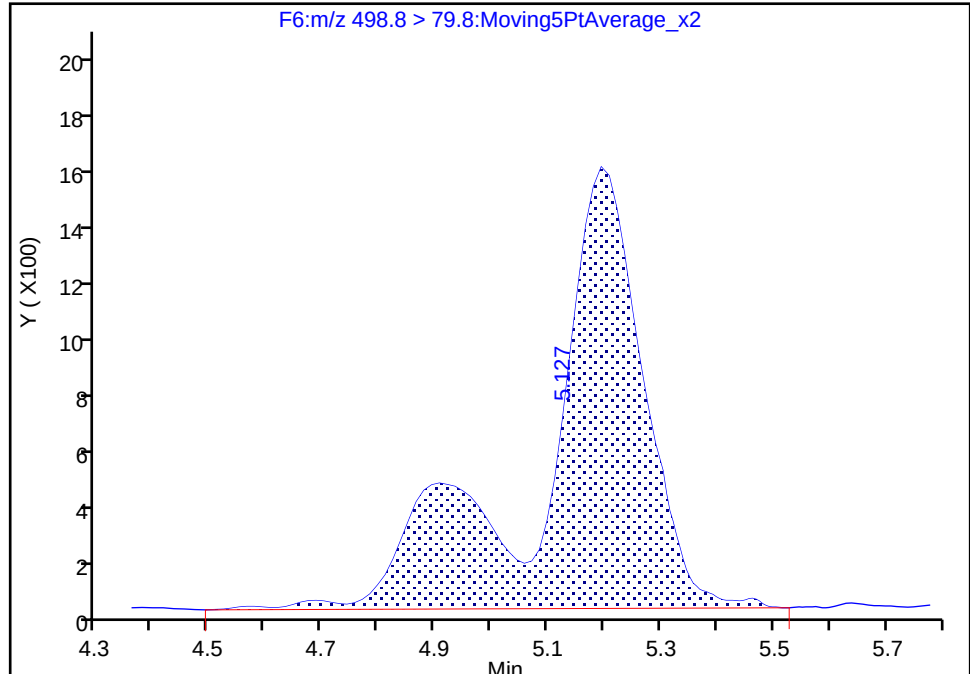
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A08.d  
Injection Date: 12-Oct-2018 18:00:51 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

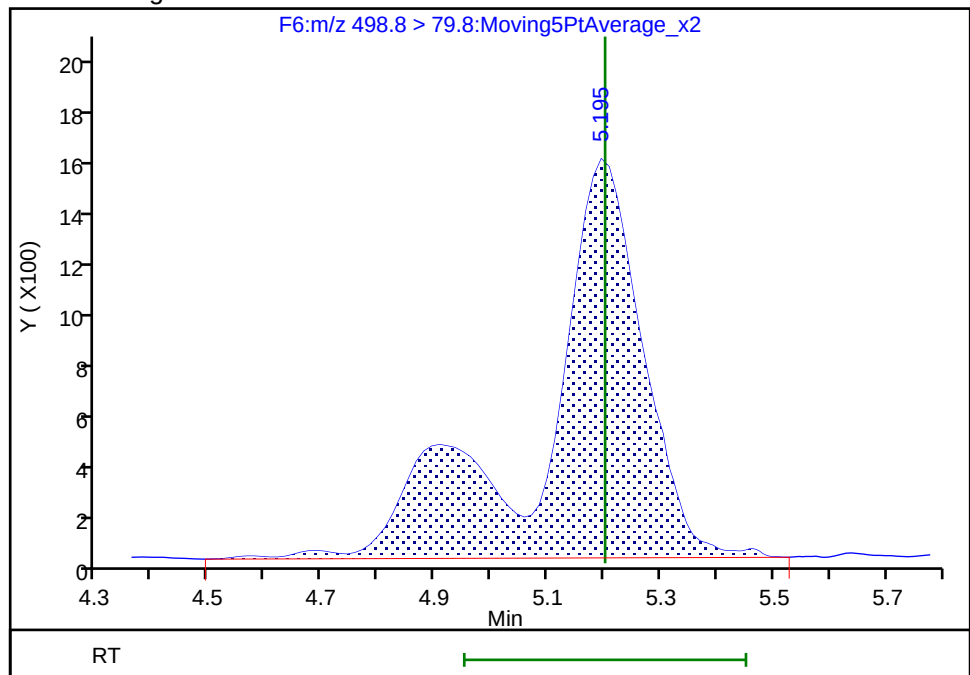
RT: 5.13  
Area: 18336  
Amount: 5.547273  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.20  
Area: 18336  
Amount: 5.418070  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:43:30  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A09.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 12-Oct-2018 18:16:40 ALS Bottle#: 0 Worklist Smp#: 9  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-009 ICIS  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:23:32 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 12-Oct-2018 21:44:50

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |        |        |        |          |              |               |      |      |       |
| 216.9 > 171.5                         | 2.343 | 2.344  | -0.001 | 1.000  | 468947   | 46.2         |               | 92.4 | 641  |       |
| 2 Perfluorobutanoic acid              |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                         | 2.343 | 2.345  | -0.002 | 1.000  | 89079    | 9.91         |               | 99.1 | 191  | M     |
| D 3 13C5 PFPeA                        |       |        |        |        |          |              |               |      |      |       |
| 267.7 > 222.6                         | 2.770 | 2.764  | 0.006  | 1.000  | 108362   | 44.5         |               | 89.0 | 128  |       |
| 4 Perfluoropentanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 262.9 > 218.8                         | 2.770 | 2.764  | 0.006  | 1.000  | 148634   | 10.1         |               | 101  | 333  |       |
| D 6 13C3 PFBS                         |       |        |        |        |          |              |               |      |      | M     |
| 302.0 > 79.8                          | 2.834 | 2.828  | 0.006  | 1.000  | 155639   | 43.7         |               | 94.0 | 529  | M     |
| 5 Perfluorobutanesulfonic acid        |       |        |        |        |          |              |               |      |      | M     |
| 298.9 > 80.0                          | 2.834 | 2.829  | 0.005  | 1.000  | 68018    | 10.0         |               | 99.9 | 157  | M     |
| D 7 13C2 PFHxA                        |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                         | 3.189 | 3.188  | 0.001  | 1.000  | 345816   | 46.6         |               | 93.3 | 1444 |       |
| 8 Perfluorohexanoic acid              |       |        |        |        |          |              |               |      |      |       |
| 312.8 > 268.6                         | 3.189 | 3.189  | 0.0    | 1.000  | 73899    | 10.1         |               | 101  | 1130 |       |
| D 9 13C4 PFHpA                        |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                         | 3.726 | 3.725  | 0.001  | 1.000  | 1011639  | 46.6         |               | 93.2 | 8871 |       |
| 10 Perfluoroheptanoic acid            |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                         | 3.737 | 3.729  | 0.008  | 1.003  | 203128   | 10.0         |               | 99.9 | 1973 |       |
| 12 Perfluorohexanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 399.0 > 80.0                          | 3.770 | 3.767  | 0.003  | 1.000  | 68359    | 9.38         |               | 93.8 | 349  |       |
| D 11 18O2 PFHxS                       |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                          | 3.770 | 3.770  | 0.0    | 1.000  | 184818   | 43.0         |               | 91.0 | 1257 |       |
| D 13 M2-6:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                         | 4.374 | 4.353  | 0.021  | 1.000  | 27297    | 34.8         |               | 73.3 | 216  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |        |        |        |          |              |               |      |      | M     |
| 426.6 > 406.6                         | 4.374 | 4.362  | 0.012  | 1.000  | 7209     | 12.1         |               | 121  | 117  | M     |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| * 15 13C2 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                         | 4.412 | 4.401  | 0.011  |        | 941265   | 50.0         |               |      | 1239 |       |
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                         | 4.412 | 4.407  | 0.005  | 1.000  | 812602   | 46.6         |               | 93.3 | 6226 |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 412.9 > 368.8                         | 4.412 | 4.409  | 0.003  | 1.000  | 173774   | 10.2         |               | 102  | 536  |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |      |      |       |
| 448.8 > 79.8                          | 4.430 | 4.442  | -0.012 | 0.853  | 29639    | 10.5         |               | 105  | 356  | M     |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |      |      |       |
| 467.8 > 422.8                         | 5.181 | 5.171  | 0.010  | 1.000  | 1032379  | 46.3         |               | 92.6 | 1839 |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 462.8 > 418.8                         | 5.181 | 5.175  | 0.006  | 1.000  | 216975   | 9.41         |               | 94.1 | 1119 |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |      |      |       |
| 502.8 > 79.8                          | 5.195 | 5.195  | 0.0    | 1.000  | 153114   | 42.5         |               | 89.0 | 560  |       |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 498.8 > 79.8                          | 5.195 | 5.200  | -0.005 | 1.000  | 33150    | 10.0         |               | 100  | 274  | M     |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 528.8 > 508.8                         | 5.926 | 5.929  | -0.003 | 1.000  | 250958   | 42.6         |               | 88.9 | 1270 |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 526.8 > 506.5                         | 5.926 | 5.932  | -0.006 | 1.000  | 33702    | 8.95         |               | 89.5 | 124  |       |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |      |      |       |
| 514.9 > 469.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 1137033  | 46.5         |               | 93.1 | 1754 |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 512.9 > 468.5                         | 5.974 | 5.958  | 0.016  | 1.004  | 232666   | 10.3         |               | 103  | 791  |       |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 572.8 > 418.8                         | 6.313 | 6.311  | 0.002  | 1.000  | 322500   | 46.9         |               | 93.7 | 1505 |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |      |      |       |
| 569.8 > 418.8                         | 6.313 | 6.319  | -0.006 | 1.000  | 66080    | 9.70         |               | 97.0 | 232  |       |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 588.9 > 418.8                         | 6.688 | 6.674  | 0.014  | 1.000  | 276737   | 46.3         |               | 92.6 | 1191 |       |
| 31 Perfluorodecanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 598.8 > 79.8                          | 6.721 | 6.700  | 0.021  | 1.294  | 36672    | 10.0         |               | 100  | 749  |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |      |      |       |
| 583.9 > 418.8                         | 6.706 | 6.706  | 0.0    | 1.003  | 55518    | 10.2         |               | 102  | 354  |       |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |      |      |       |
| 564.8 > 519.8                         | 6.721 | 6.720  | 0.001  | 1.000  | 1354136  | 48.4         |               | 96.7 | 3028 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 562.8 > 518.6                         | 6.721 | 6.720  | 0.001  | 1.000  | 238453   | 9.94         |               | 99.4 | 454  |       |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |      |      |       |
| 505.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 282546   | 44.2         |               | 88.5 | 1315 |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |               |      |      |       |
| 497.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 49870    | 10.3         |               | 103  | 369  |       |
| D 37 13C2 PFDoA                       |       |        |        |        |          |              |               |      |      |       |
| 614.8 > 569.6                         | 7.407 | 7.402  | 0.005  | 1.000  | 1405280  | 45.8         |               | 91.6 | 3335 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 612.8 > 568.6                         | 7.407 | 7.407  | 0.0    | 1.000  | 249202   | 10.3         |               | 103  | 1104 |       |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |      |      |       |
| 662.8 > 618.6                         | 8.021 | 8.024  | -0.003 | 0.935  | 265870   | 10.4         |               | 104  | 2146 |       |



Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A09.d

| Signal | RT | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N | Flags |
|--------|----|-----------|-----------|-----------|----------|-----------------|---------------|------|-----|-------|
|--------|----|-----------|-----------|-----------|----------|-----------------|---------------|------|-----|-------|

D 40 13C2 PFTeDA

|               |       |       |       |       |         |      |  |      |      |  |
|---------------|-------|-------|-------|-------|---------|------|--|------|------|--|
| 714.8 > 669.6 | 8.575 | 8.563 | 0.012 | 1.000 | 1373240 | 46.0 |  | 92.1 | 1347 |  |
|---------------|-------|-------|-------|-------|---------|------|--|------|------|--|

39 Perfluorotetradecanoic acid

|               |       |       |     |       |        |      |  |      |      |  |
|---------------|-------|-------|-----|-------|--------|------|--|------|------|--|
| 712.8 > 668.6 | 8.575 | 8.575 | 0.0 | 1.000 | 267693 | 9.97 |  | 99.7 | 2440 |  |
|---------------|-------|-------|-----|-------|--------|------|--|------|------|--|

|               |       |       |        |       |       |  |                 |      |     |  |
|---------------|-------|-------|--------|-------|-------|--|-----------------|------|-----|--|
| 712.8 > 168.8 | 8.560 | 8.575 | -0.015 | 0.998 | 51189 |  | 5.23(0.00-0.00) | 99.7 | 227 |  |
|---------------|-------|-------|--------|-------|-------|--|-----------------|------|-----|--|

|               |       |       |        |       |       |  |                 |      |     |  |
|---------------|-------|-------|--------|-------|-------|--|-----------------|------|-----|--|
| 712.8 > 218.8 | 8.560 | 8.575 | -0.015 | 0.998 | 30380 |  | 8.81(0.00-0.00) | 99.7 | 296 |  |
|---------------|-------|-------|--------|-------|-------|--|-----------------|------|-----|--|

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L3A\_00001

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A09.d

Injection Date: 12-Oct-2018 18:16:40

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

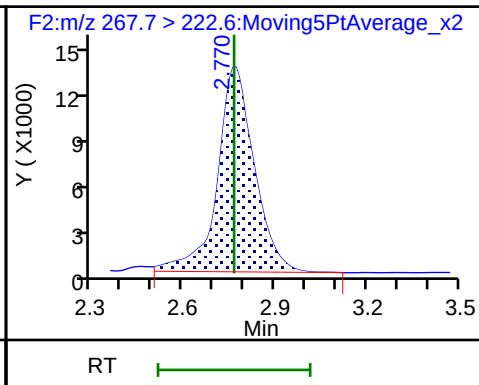
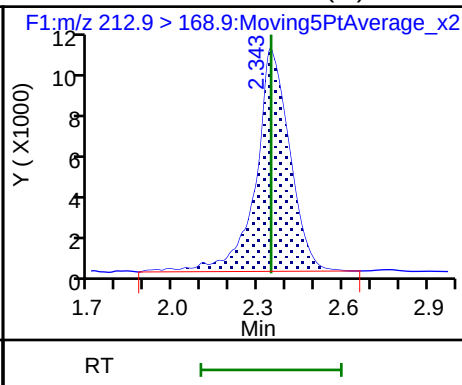
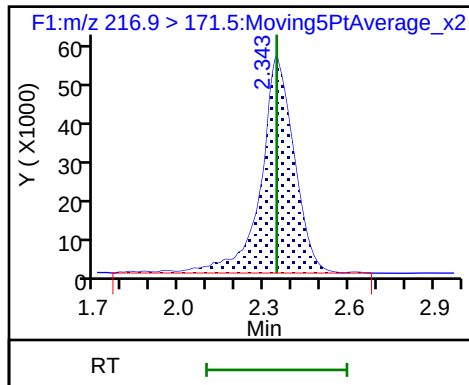
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

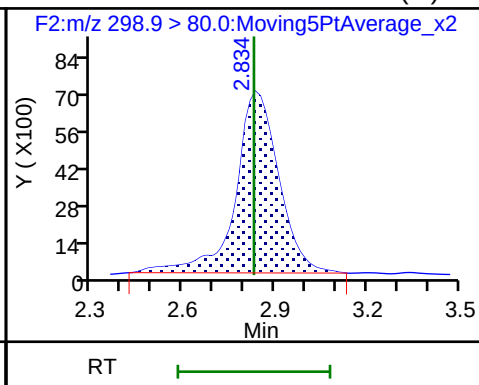
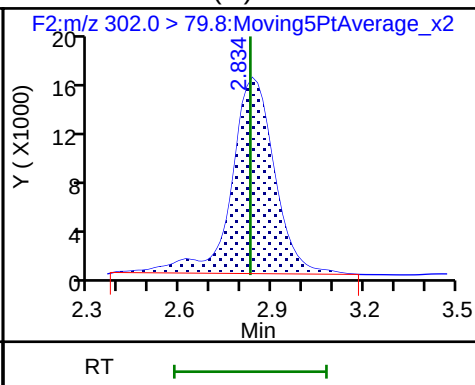
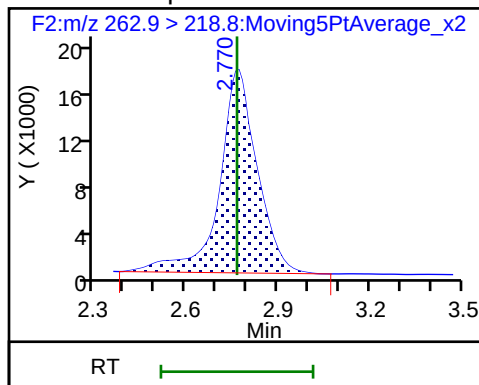
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 6 13C3 PFBS (M)

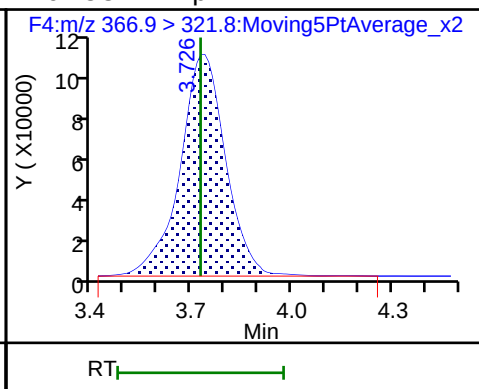
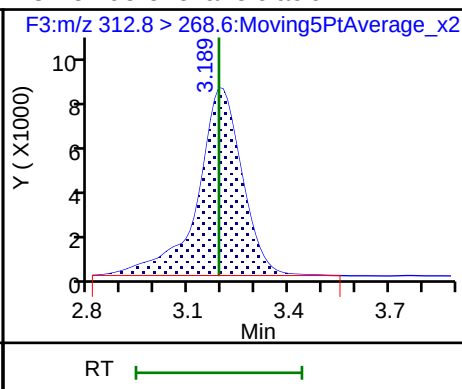
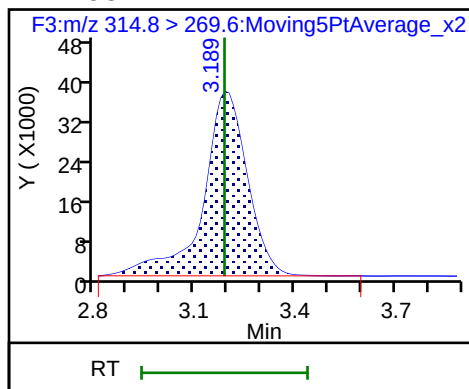
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

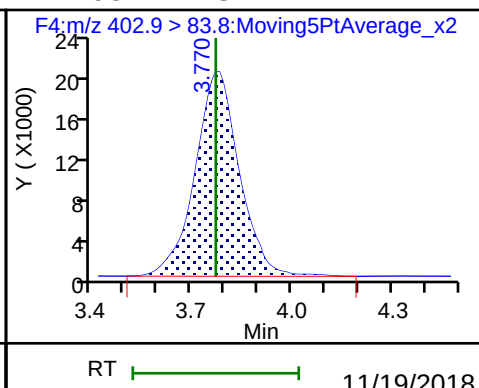
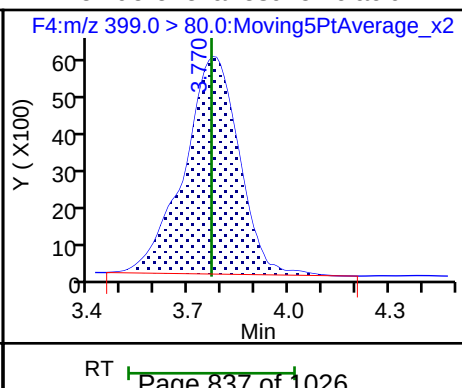
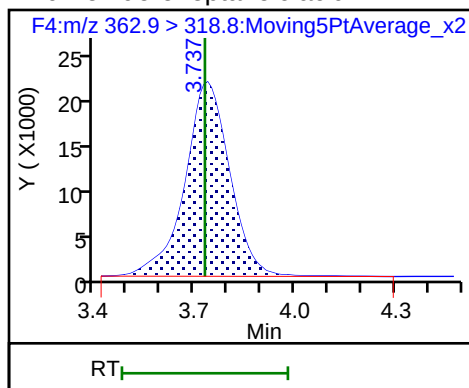
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

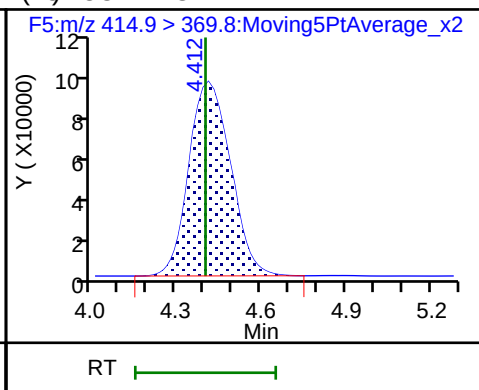
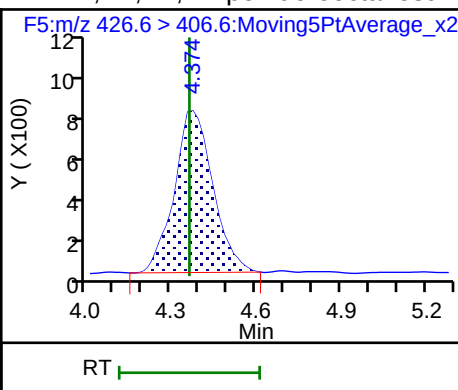
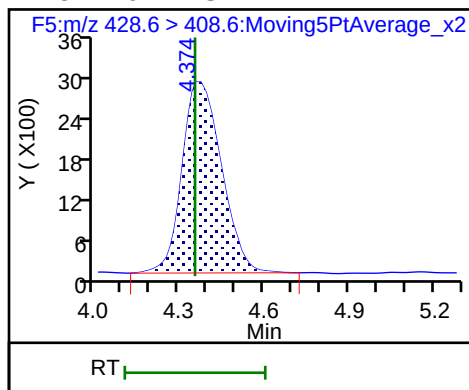
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate (M)

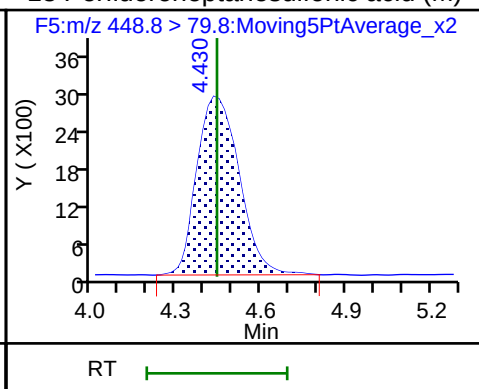
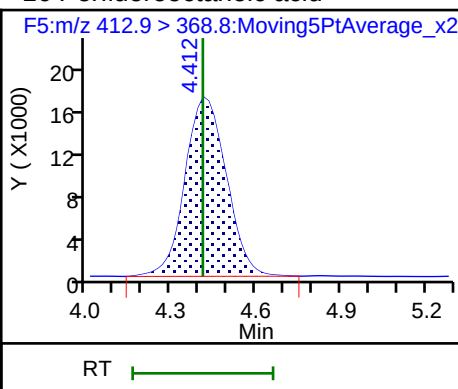
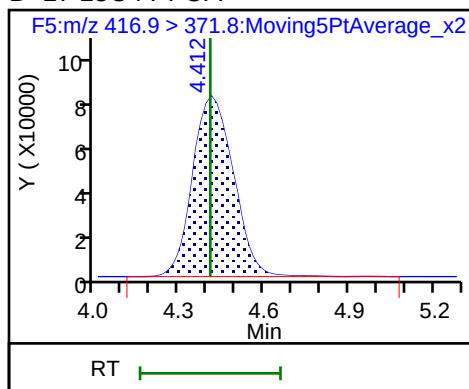
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

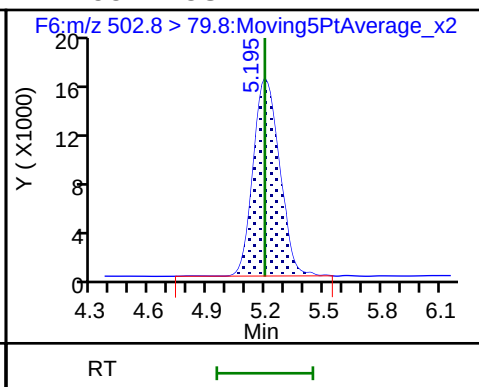
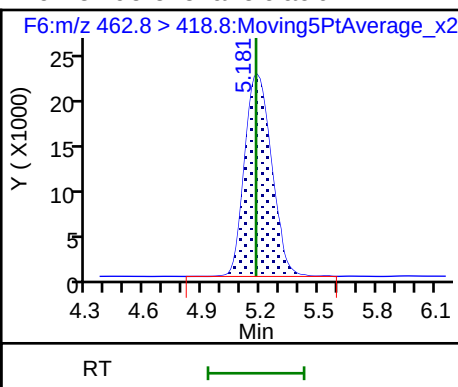
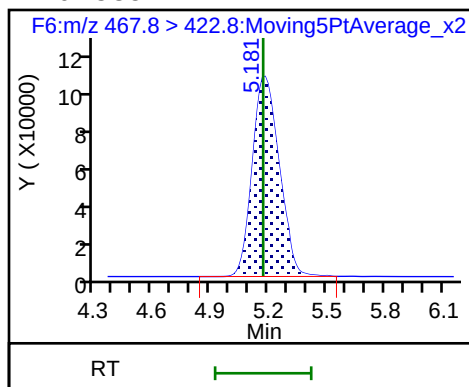
18 Perfluoroheptanesulfonic acid (M)



D 20 13C5 PFNA

19 Perfluorononanoic acid

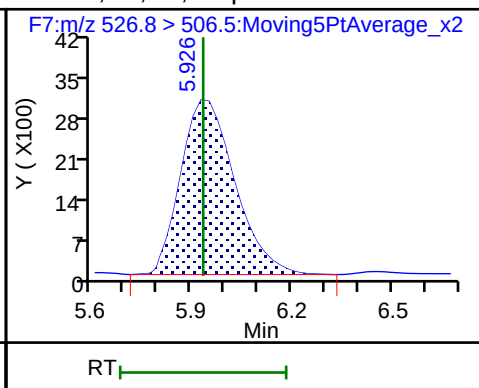
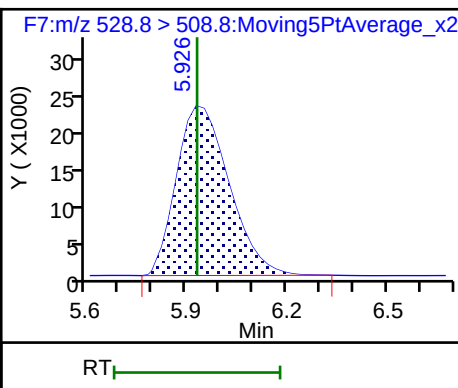
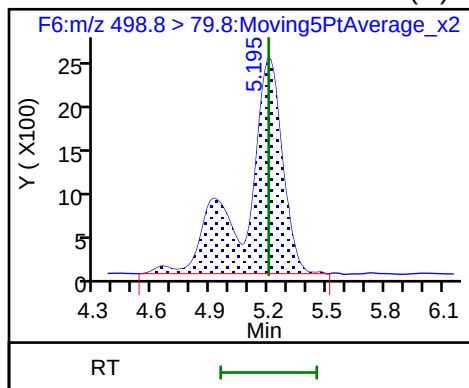
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

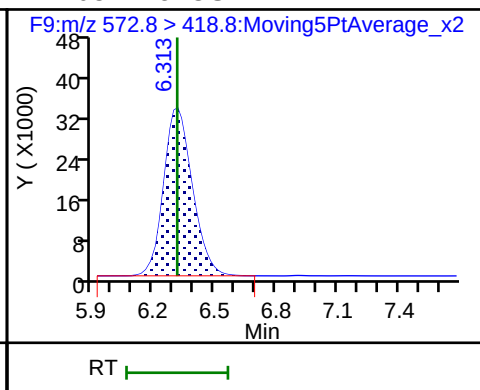
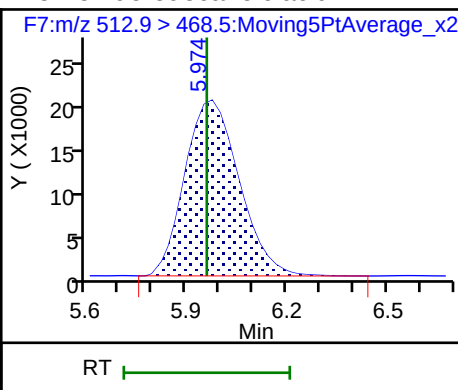
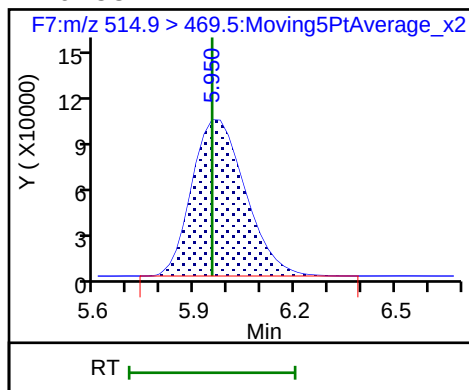
23 1H,1H,2H,2H-perfluorodecanesulfonate (M)



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

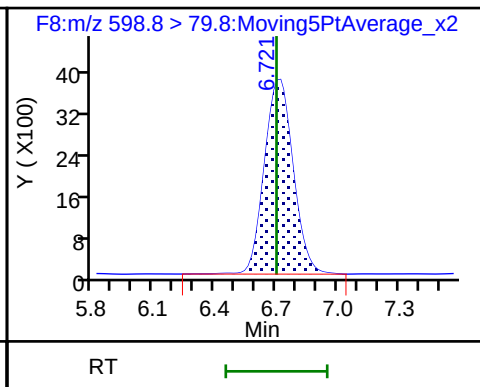
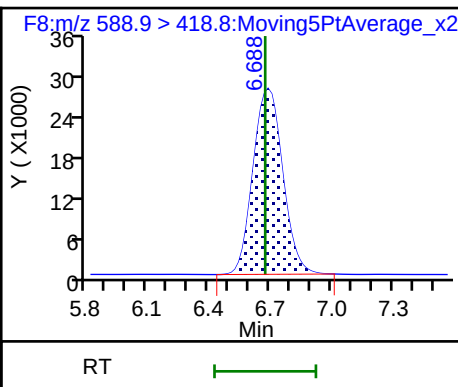
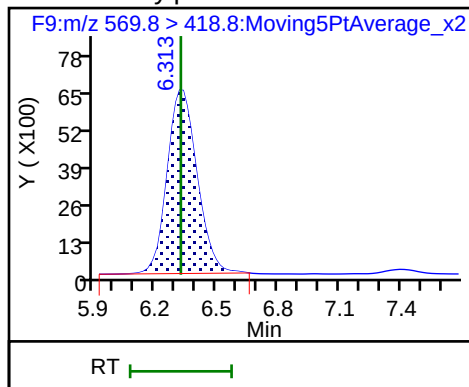
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamidD

## 29 d5-NEtFOSAA

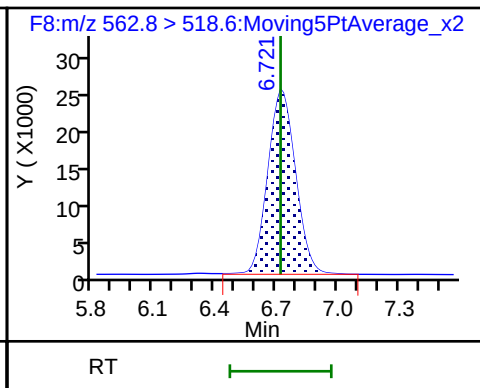
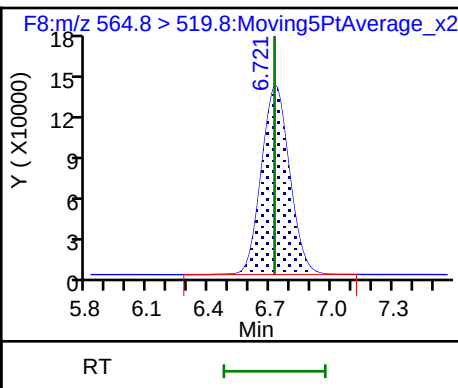
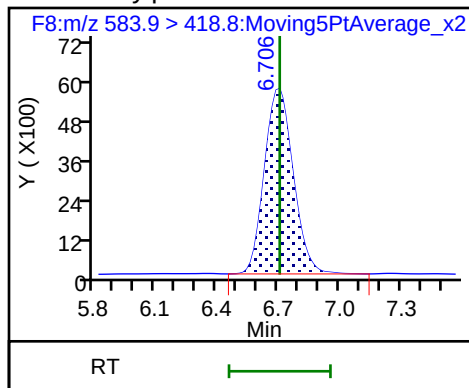
## 31 Perfluorodecanesulfonic acid



## 30 N-ethylperfluorooctanesulfonamidD

## 32 13C2 PFUnA

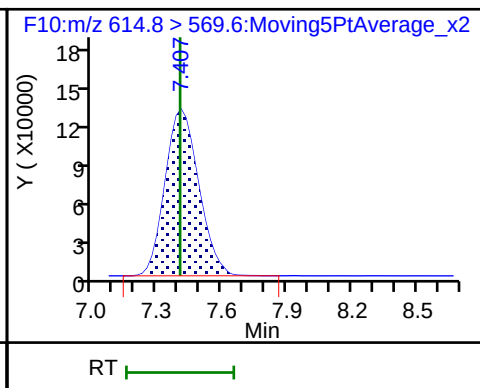
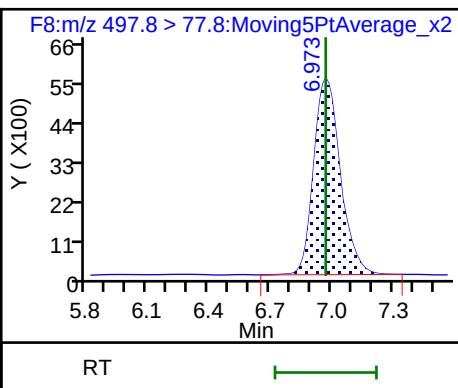
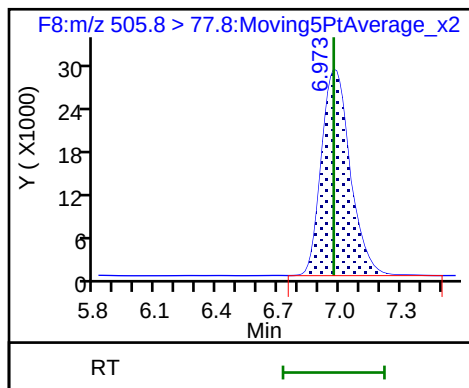
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

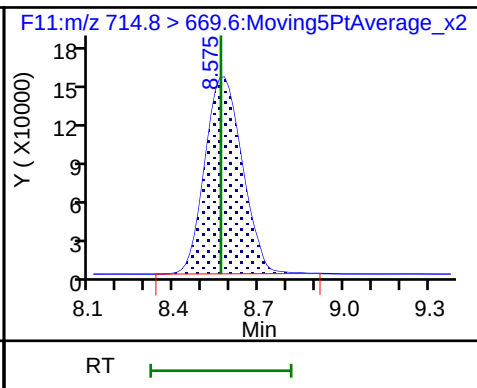
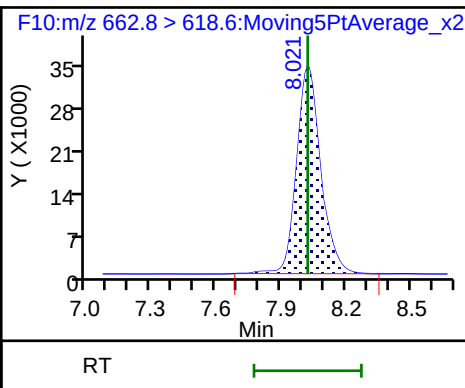
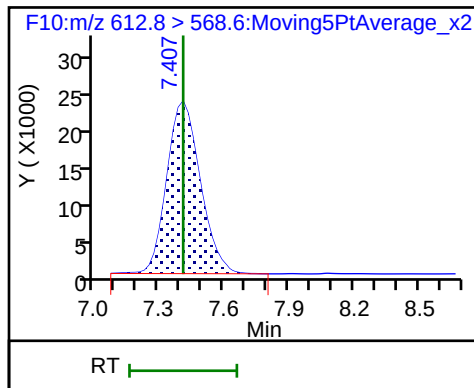
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

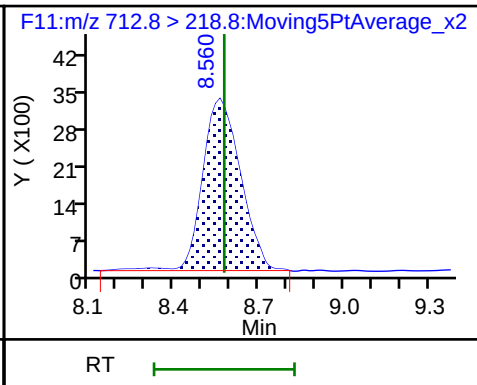
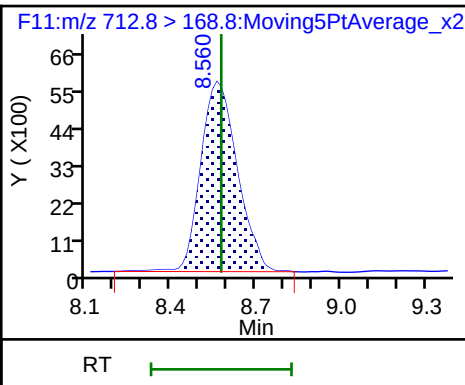
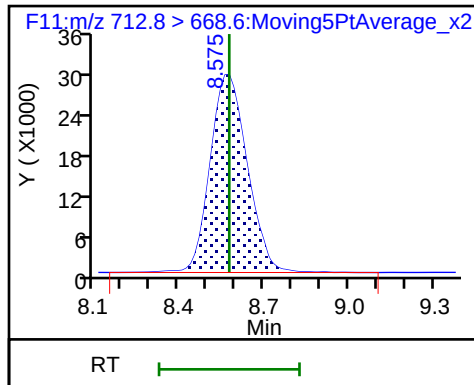
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

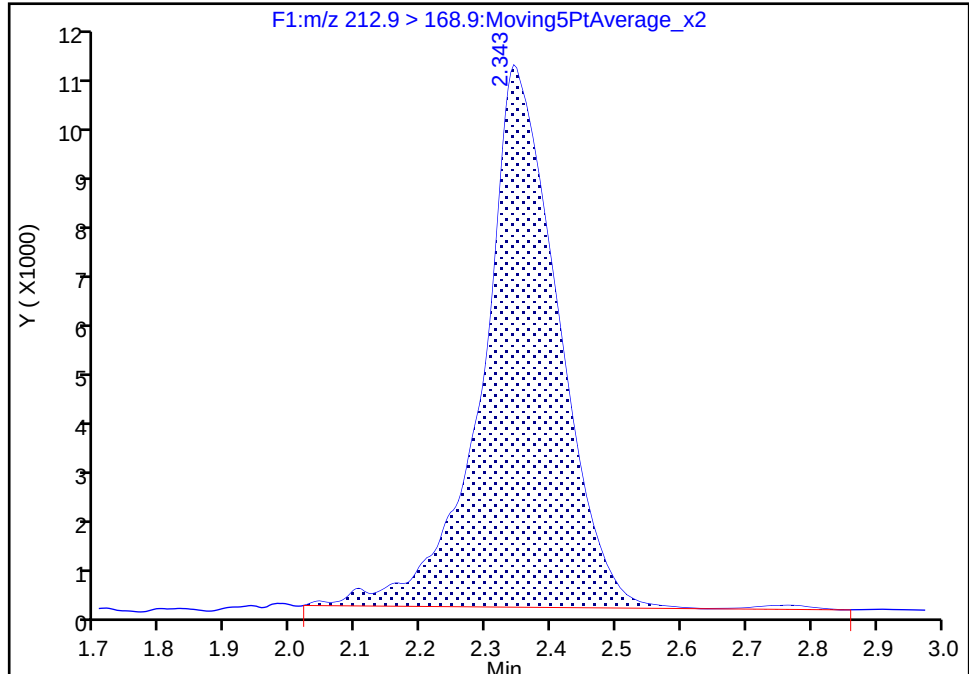
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Injection Date: 12-Oct-2018 18:16:40 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

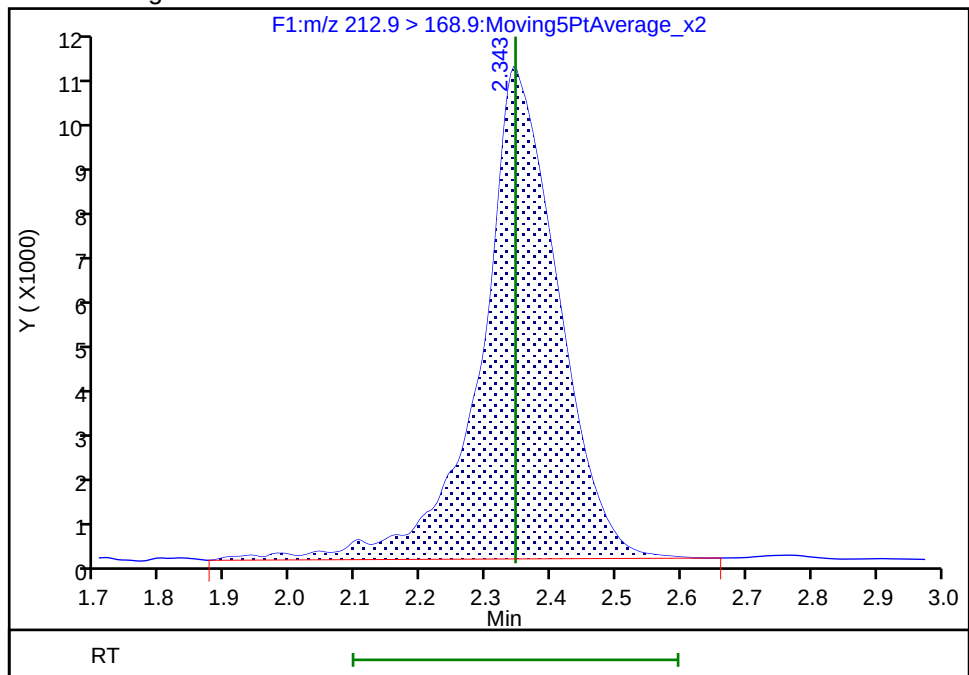
RT: 2.34  
Area: 86901  
Amount: 10.191475  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.34  
Area: 89079  
Amount: 9.913251  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:44:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

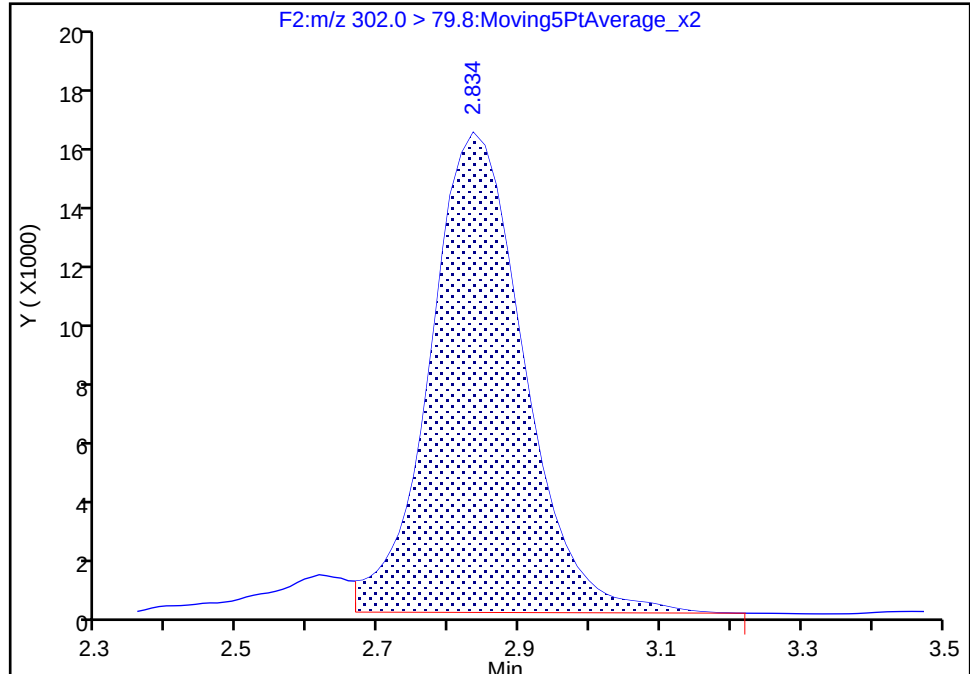
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Injection Date: 12-Oct-2018 18:16:40 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

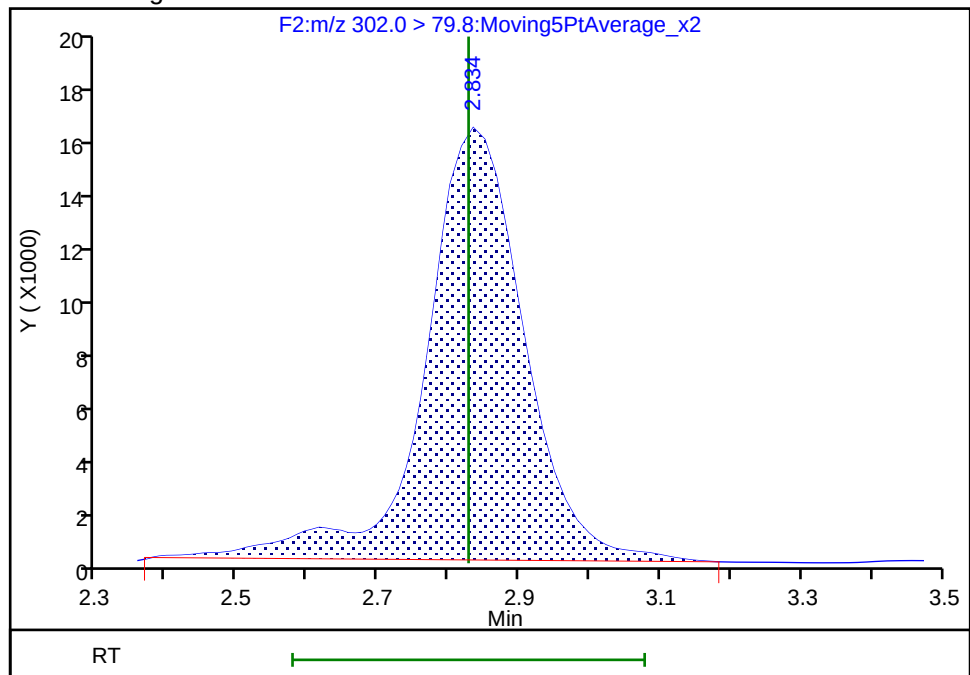
RT: 2.83  
Area: 147953  
Amount: 41.562743  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.83  
Area: 155639  
Amount: 43.692663  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:44:42  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A09.d

Injection Date: 12-Oct-2018 18:16:40

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

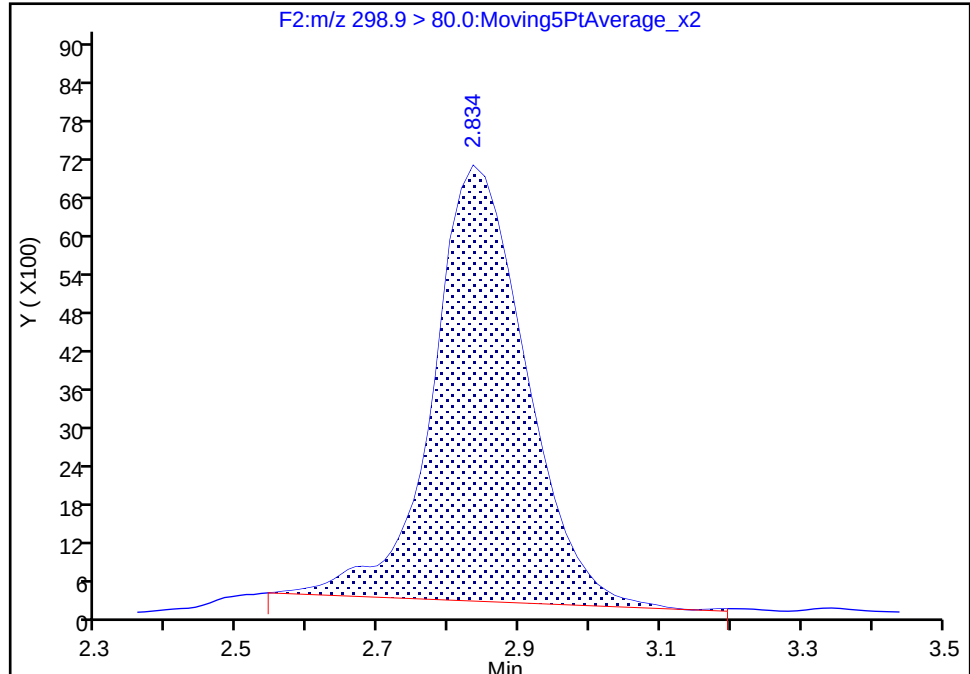
Detector F2:MRM

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

Signal: 1

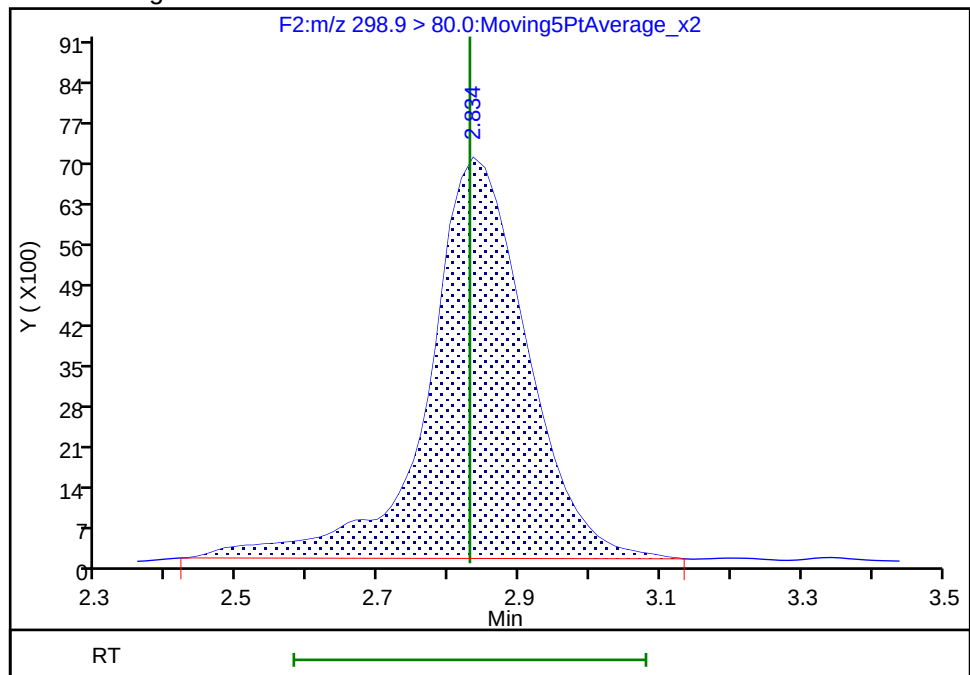
RT: 2.83  
Area: 62697  
Amount: 10.150275  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.83  
Area: 68018  
Amount: 9.994790  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:44:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A09.d

Injection Date: 12-Oct-2018 18:16:40

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

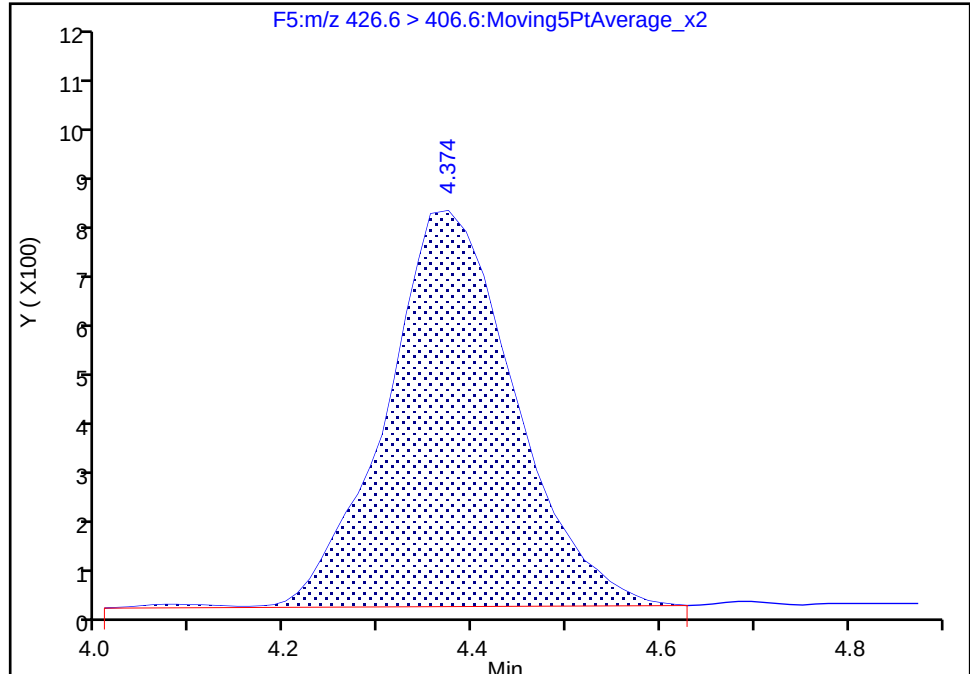
Detector F5:MRM

**14 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:, CAS: 27619-97-2**

Signal: 1

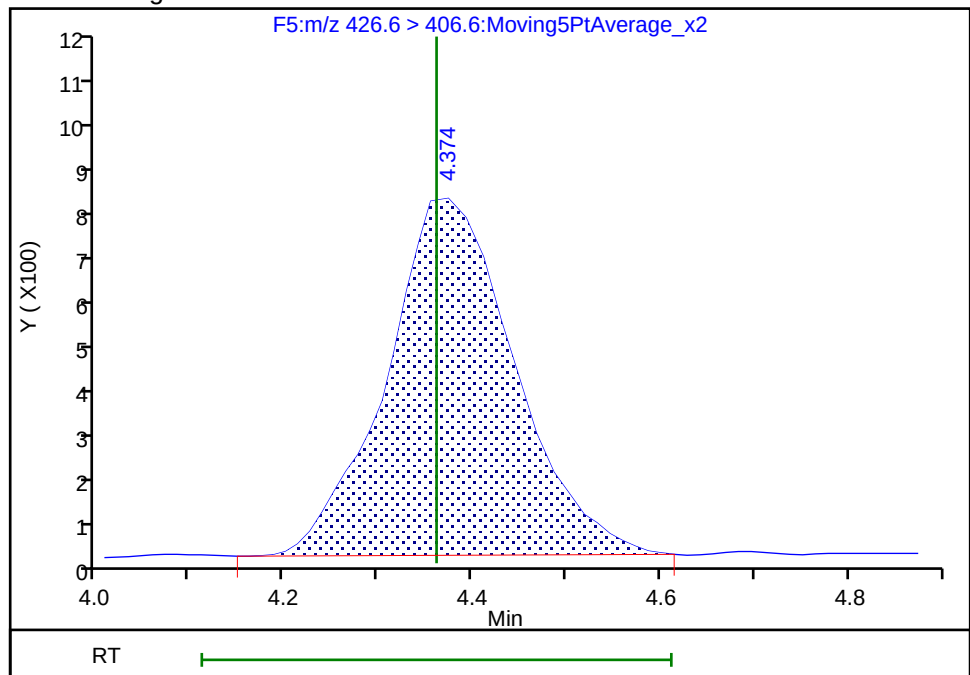
RT: 4.37  
Area: 7298  
Amount: 10.696959  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.37  
Area: 7209  
Amount: 12.135877  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:44:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A09.d

Injection Date: 12-Oct-2018 18:16:40

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

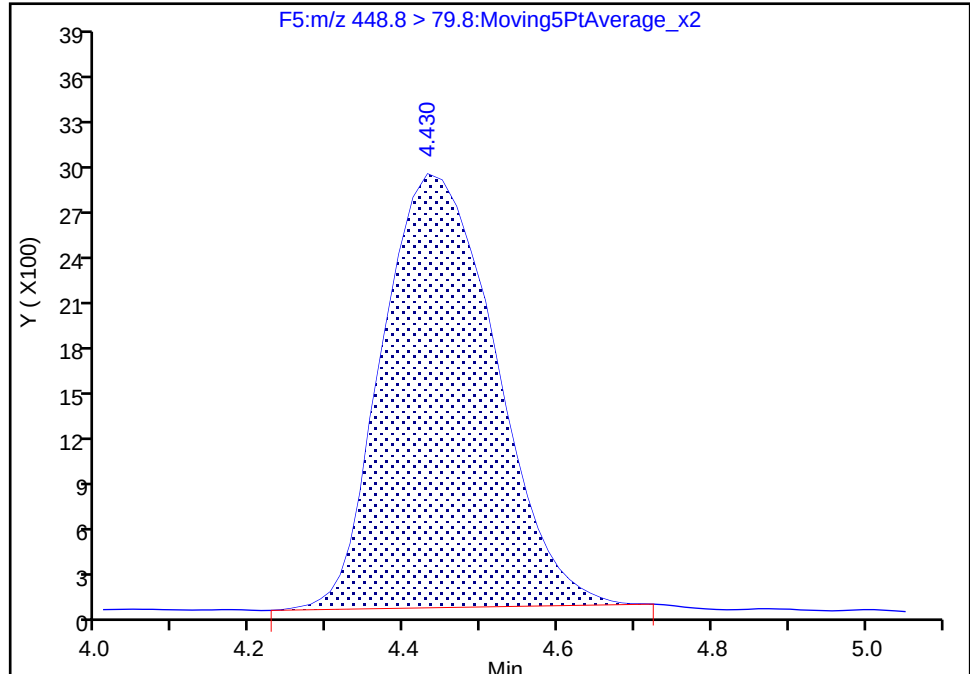
Detector F5:MRM

**18 Perfluoroheptanesulfonic acid, CAS: 375-92-8**

Signal: 1

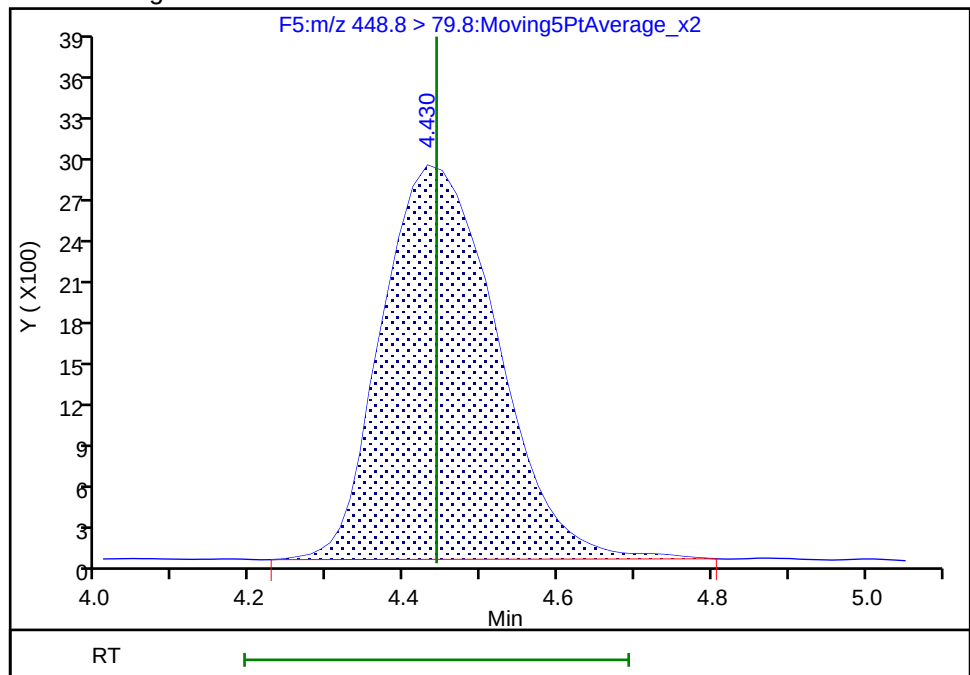
RT: 4.43  
Area: 29020  
Amount: 10.161328  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.43  
Area: 29639  
Amount: 10.526745  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:44:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

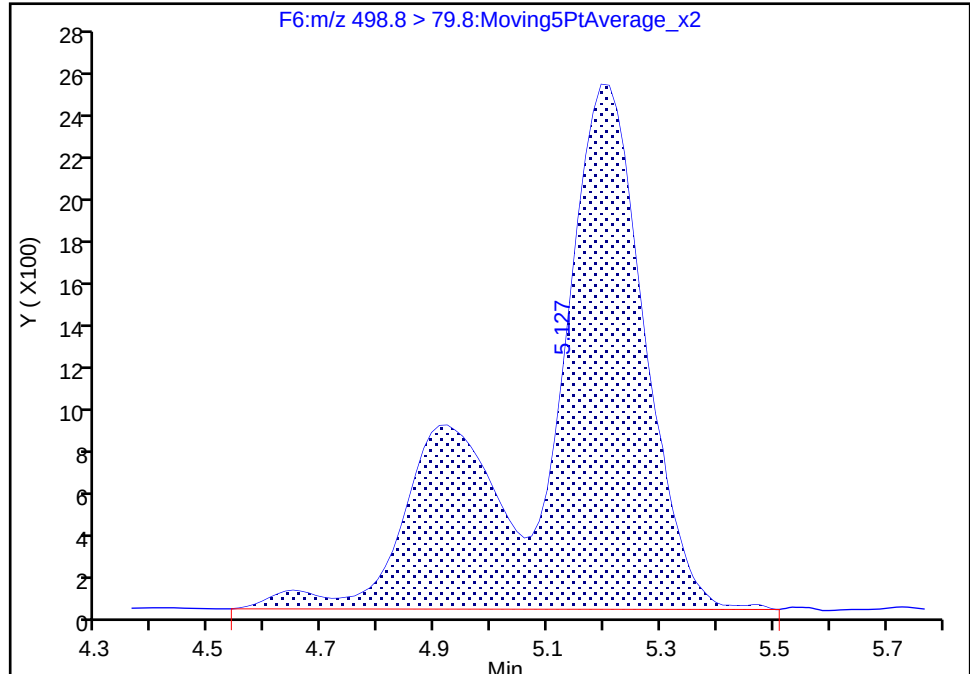
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A09.d |                |             |
| Injection Date: | 12-Oct-2018 18:16:40                                                | Instrument ID: | LC410       |
| Lims ID:        | IC                                                                  |                |             |
| Client ID:      |                                                                     |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector       | F6:MRM      |
|                 |                                                                     | Worklist Smp#: | 9           |

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

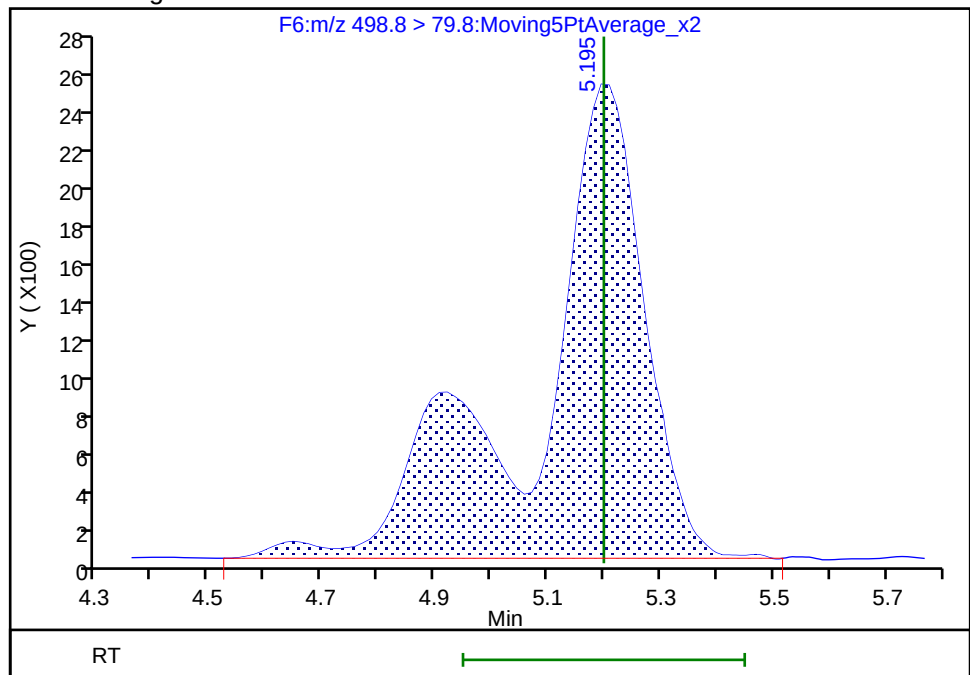
RT: 5.13  
Area: 33238  
Amount: 10.065150  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.20  
Area: 33150  
Amount: 10.019598  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:44:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A10.d  
 Lims ID: ICIS  
 Client ID:  
 Sample Type: ICIS Calib Level: 5  
 Inject. Date: 12-Oct-2018 18:32:30 ALS Bottle#: 0 Worklist Smp#: 10  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-010 IC 5  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:23:37 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 12-Oct-2018 21:34:44

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |           |           |           |          |                 |               |      |      |       |
| 216.9 > 171.5                         | 2.338 | 2.344     | -0.006    | 1.000     | 452328   | 52.4            |               | 105  | 739  |       |
| 2 Perfluorobutanoic acid              |       |           |           |           |          |                 |               |      |      | M     |
| 212.9 > 168.9                         | 2.343 | 2.345     | -0.002    | 1.002     | 164764   | 19.0            |               | 95.0 | 378  | M     |
| D 3 13C5 PFPeA                        |       |           |           |           |          |                 |               |      |      |       |
| 267.7 > 222.6                         | 2.760 | 2.763     | -0.003    | 1.000     | 97953    | 47.3            |               | 94.6 | 285  |       |
| 4 Perfluoropentanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 262.9 > 218.8                         | 2.760 | 2.764     | -0.004    | 1.000     | 285631   | 21.5            |               | 108  | 746  |       |
| D 6 13C3 PFBS                         |       |           |           |           |          |                 |               |      |      |       |
| 302.0 > 79.8                          | 2.818 | 2.826     | -0.008    | 1.000     | 144139   | 47.6            |               | 102  | 543  |       |
| 5 Perfluorobutanesulfonic acid        |       |           |           |           |          |                 |               |      |      |       |
| 298.9 > 80.0                          | 2.834 | 2.830     | 0.004     | 1.006     | 119743   | 19.0            |               | 95.0 | 472  |       |
| D 7 13C2 PFHxA                        |       |           |           |           |          |                 |               |      |      |       |
| 314.8 > 269.6                         | 3.189 | 3.188     | 0.001     | 1.000     | 330579   | 52.4            |               | 105  | 1151 |       |
| 8 Perfluorohexanoic acid              |       |           |           |           |          |                 |               |      |      |       |
| 312.8 > 268.6                         | 3.189 | 3.189     | 0.0       | 1.000     | 141128   | 20.1            |               | 100  | 2110 |       |
| D 9 13C4 PFHpA                        |       |           |           |           |          |                 |               |      |      |       |
| 366.9 > 321.8                         | 3.726 | 3.725     | 0.001     | 1.000     | 919641   | 49.8            |               | 99.6 | 551  |       |
| 10 Perfluoroheptanoic acid            |       |           |           |           |          |                 |               |      |      |       |
| 362.9 > 318.8                         | 3.726 | 3.729     | -0.003    | 1.000     | 383900   | 20.8            |               | 104  | 3437 |       |
| 12 Perfluorohexanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 399.0 > 80.0                          | 3.770 | 3.767     | 0.003     | 1.003     | 138464   | 19.1            |               | 95.7 | 934  |       |
| D 11 18O2 PFHxS                       |       |           |           |           |          |                 |               |      |      |       |
| 402.9 > 83.8                          | 3.759 | 3.768     | -0.009    | 1.000     | 183361   | 50.2            |               | 106  | 355  |       |
| D 13 M2-6:2 FTS                       |       |           |           |           |          |                 |               |      |      | M     |
| 428.6 > 408.6                         | 4.355 | 4.353     | 0.002     | 1.000     | 34833    | 52.3            |               | 110  | 125  | M     |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |           |           |           |          |                 |               |      |      |       |
| 426.6 > 406.6                         | 4.342 | 4.365     | -0.023    | 0.997     | 13015    | 17.2            |               | 85.8 | 142  |       |

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| * 15 13C2 PFOA                        |       |           |           |           |          |                 |               |      |      |       |
| 414.9 > 369.8                         | 4.393 | 4.401     | -0.008    |           | 800290   | 50.0            |               |      | 3048 |       |
| D 17 13C4 PFOA                        |       |           |           |           |          |                 |               |      |      |       |
| 416.9 > 371.8                         | 4.393 | 4.407     | -0.014    | 1.000     | 756161   | 51.0            |               | 102  | 6656 |       |
| 16 Perfluorooctanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 412.9 > 368.8                         | 4.412 | 4.409     | 0.003     | 1.004     | 304556   | 19.2            |               | 96.2 | 573  |       |
| 18 Perfluoroheptanesulfonic acid      |       |           |           |           |          |                 |               |      |      |       |
| 448.8 > 79.8                          | 4.430 | 4.440     | -0.010    | 0.853     | 58114    | 20.9            |               | 104  | 365  |       |
| D 20 13C5 PFNA                        |       |           |           |           |          |                 |               |      |      |       |
| 467.8 > 422.8                         | 5.168 | 5.171     | -0.003    | 1.000     | 951488   | 50.2            |               | 100  | 1064 |       |
| 19 Perfluorononanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 462.8 > 418.8                         | 5.181 | 5.175     | 0.006     | 1.003     | 403866   | 19.5            |               | 97.7 | 1285 |       |
| D 22 13C4 PFOS                        |       |           |           |           |          |                 |               |      |      |       |
| 502.8 > 79.8                          | 5.195 | 5.195     | 0.0       | 1.000     | 151338   | 49.4            |               | 103  | 401  |       |
| 21 Perfluorooctanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 498.8 > 79.8                          | 5.195 | 5.198     | -0.003    | 1.000     | 64638    | 19.8            |               | 98.8 | 339  | M     |
| D 24 M2-8:2 FTS                       |       |           |           |           |          |                 |               |      |      |       |
| 528.8 > 508.8                         | 5.926 | 5.929     | -0.003    | 1.000     | 237413   | 47.4            |               | 99.0 | 984  |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |           |           |           |          |                 |               |      |      |       |
| 526.8 > 506.5                         | 5.926 | 5.932     | -0.006    | 1.000     | 74970    | 21.0            |               | 105  | 327  |       |
| D 26 13C2 PFDA                        |       |           |           |           |          |                 |               |      |      |       |
| 514.9 > 469.5                         | 5.950 | 5.950     | 0.0       | 1.000     | 1049228  | 50.5            |               | 101  | 1086 |       |
| 25 Perfluorodecanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 512.9 > 468.5                         | 5.950 | 5.962     | -0.012    | 1.000     | 439490   | 21.0            |               | 105  | 964  |       |
| D 27 d3-NMeFOSAA                      |       |           |           |           |          |                 |               |      |      |       |
| 572.8 > 418.8                         | 6.313 | 6.311     | 0.002     | 1.000     | 282205   | 48.2            |               | 96.5 | 1103 |       |
| 28 N-methylperfluorooctanesulfonamido |       |           |           |           |          |                 |               |      |      |       |
| 569.8 > 418.8                         | 6.313 | 6.317     | -0.004    | 1.000     | 115470   | 19.4            |               | 96.9 | 409  |       |
| D 29 d5-NEtFOSAA                      |       |           |           |           |          |                 |               |      |      |       |
| 588.9 > 418.8                         | 6.670 | 6.674     | -0.004    | 1.000     | 259191   | 51.0            |               | 102  | 1735 |       |
| 31 Perfluorodecanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 598.8 > 79.8                          | 6.706 | 6.705     | 0.001     | 1.291     | 65822    | 18.2            |               | 91.2 | 694  |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |           |           |           |          |                 |               |      |      |       |
| 583.9 > 418.8                         | 6.688 | 6.706     | -0.018    | 1.003     | 99674    | 19.6            |               | 97.8 | 997  |       |
| D 32 13C2 PFUnA                       |       |           |           |           |          |                 |               |      |      |       |
| 564.8 > 519.8                         | 6.720 | 6.720     | 0.0       | 1.000     | 1205893  | 50.6            |               | 101  | 4857 |       |
| 33 Perfluoroundecanoic acid           |       |           |           |           |          |                 |               |      |      |       |
| 562.8 > 518.6                         | 6.720 | 6.720     | 0.0       | 1.000     | 413281   | 19.3            |               | 96.7 | 659  |       |
| D 35 13C8 FOSA                        |       |           |           |           |          |                 |               |      |      |       |
| 505.8 > 77.8                          | 6.973 | 6.973     | 0.0       | 1.000     | 291513   | 53.7            |               | 107  | 1150 |       |
| 34 Perfluorooctanesulfonamide         |       |           |           |           |          |                 |               |      |      |       |
| 497.8 > 77.8                          | 6.973 | 6.973     | 0.0       | 1.000     | 95600    | 19.1            |               | 95.6 | 775  |       |
| D 37 13C2 PFDoA                       |       |           |           |           |          |                 |               |      |      |       |
| 614.8 > 569.6                         | 7.407 | 7.402     | 0.005     | 1.000     | 1264630  | 48.5            |               | 97.0 | 4310 |       |
| 36 Perfluorododecanoic acid           |       |           |           |           |          |                 |               |      |      |       |
| 612.8 > 568.6                         | 7.407 | 7.407     | 0.0       | 1.000     | 452483   | 20.7            |               | 103  | 2618 |       |
| 38 Perfluorotridecanoic acid          |       |           |           |           |          |                 |               |      |      |       |
| 662.8 > 618.6                         | 8.021 | 8.023     | -0.002    | 0.937     | 496569   | 20.8            |               | 104  | 551  |       |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A10.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.560 | 8.563     | -0.003    | 1.000     | 1281287  | 50.5            |                 | 101  | 1075 |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      |       |
| 712.8 > 668.6                  | 8.560 | 8.575     | -0.015    | 1.000     | 519661   | 20.7            |                 | 104  | 1784 |       |
| 712.8 > 168.8                  | 8.575 | 8.575     | 0.0       | 1.002     | 112121   |                 | 4.63(0.00-0.00) | 104  | 550  |       |
| 712.8 > 218.8                  | 8.560 | 8.575     | -0.015    | 1.000     | 54716    |                 | 9.50(0.00-0.00) | 104  | 111  |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L4\_00003

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A10.d

Injection Date: 12-Oct-2018 18:32:30

Instrument ID: LC410

Lims ID: ICIS

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

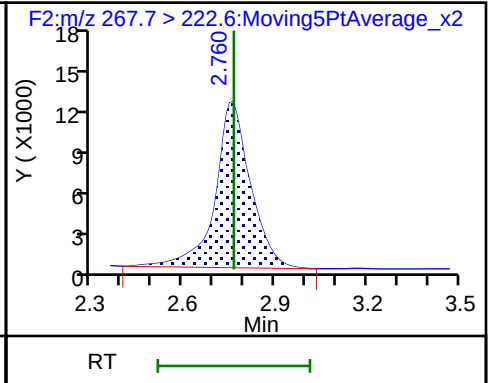
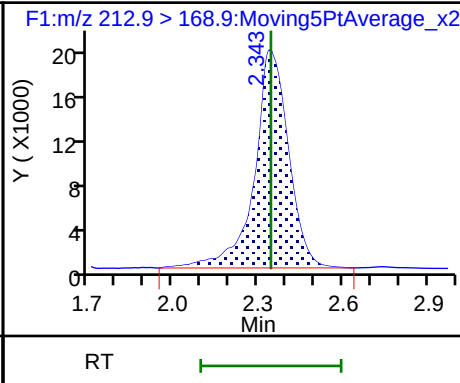
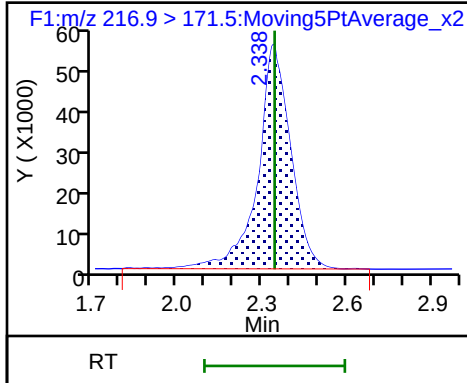
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

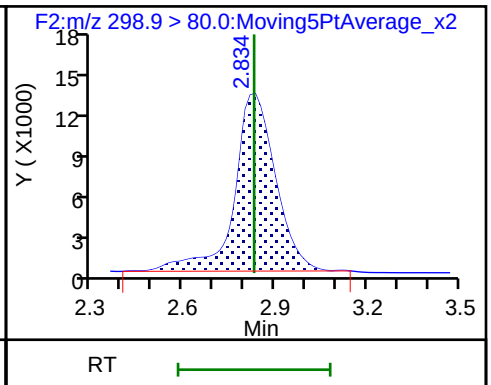
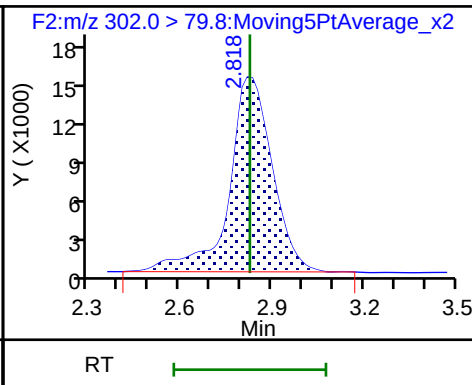
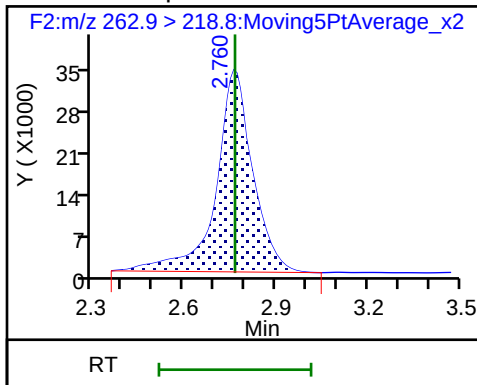
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 6 13C3 PFBS

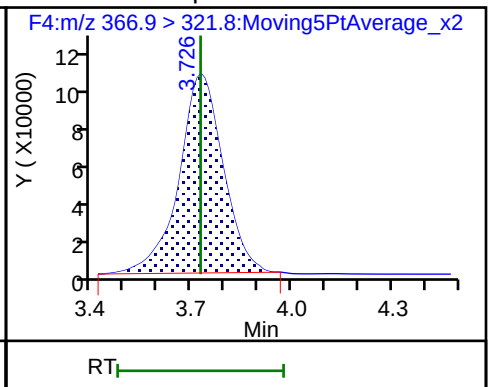
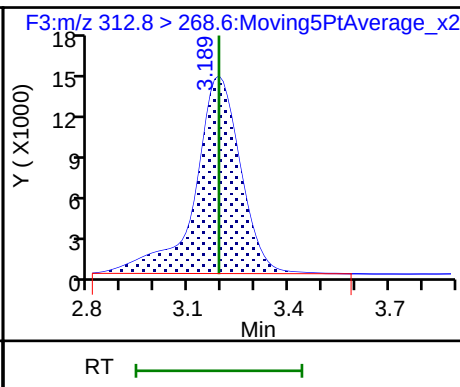
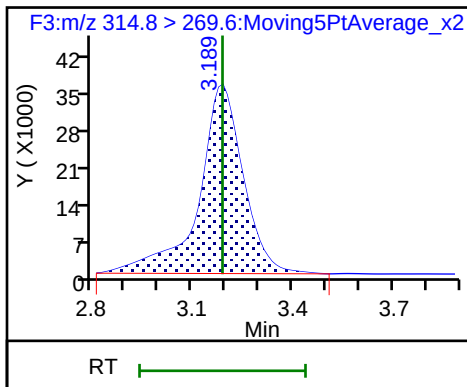
5 Perfluorobutanesulfonic acid



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

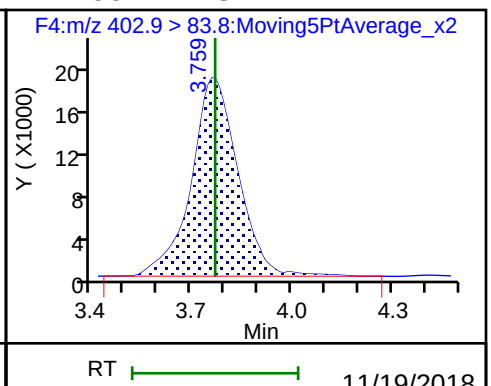
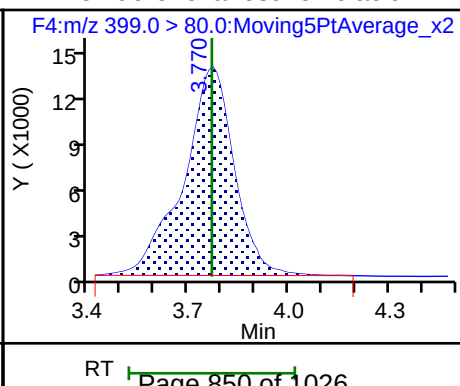
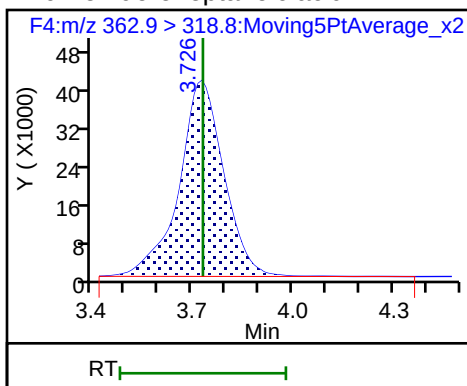
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

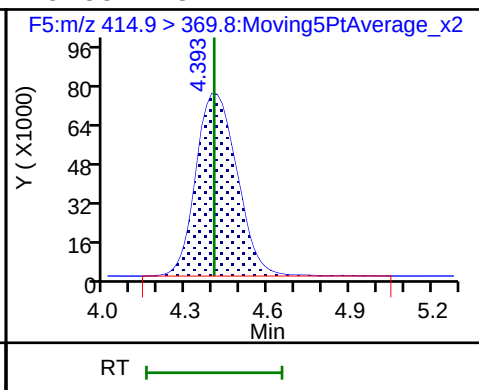
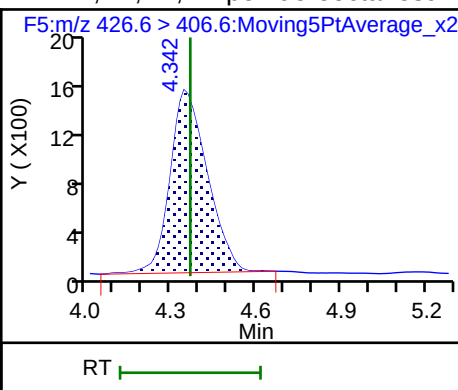
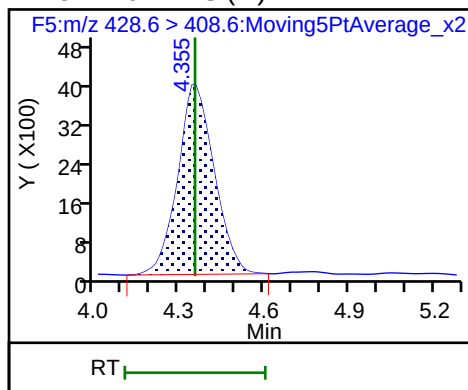
D 11 18O2 PFHxS



## D 13 M2-6:2 FTS (M)

## 14 1H,1H,2H,2H-perfluorooctanesulfonate

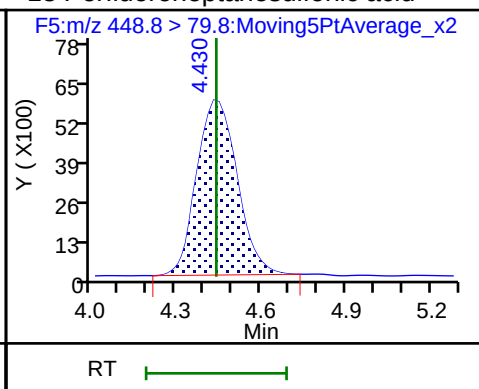
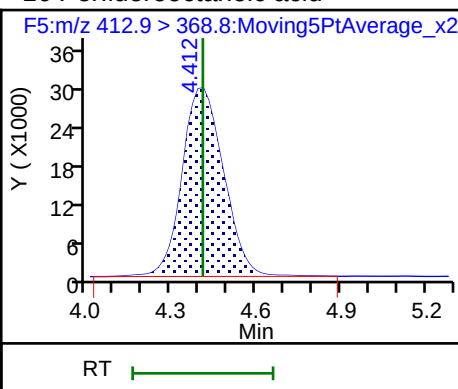
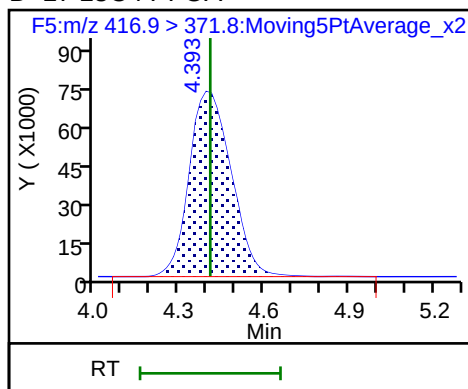
## 15 13C2 PFOA



## D 17 13C4 PFOA

## 16 Perfluorooctanoic acid

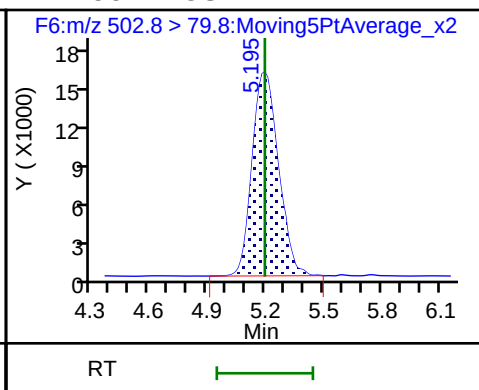
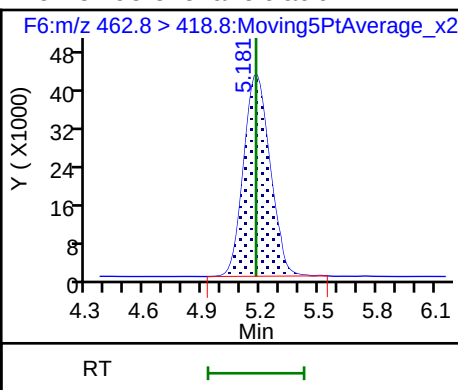
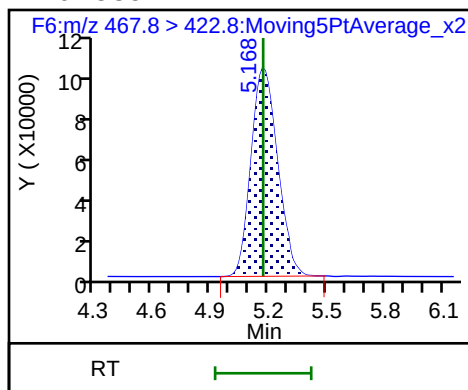
## 18 Perfluoroheptanesulfonic acid



## D 20 13C5 PFNA

## 19 Perfluorononanoic acid

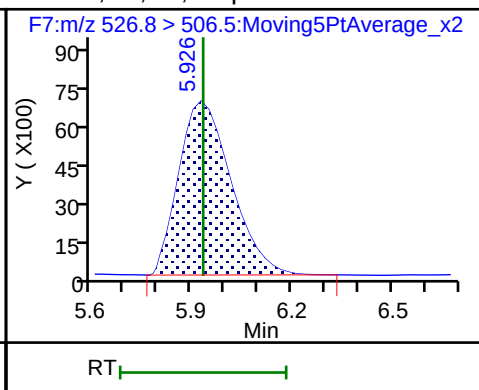
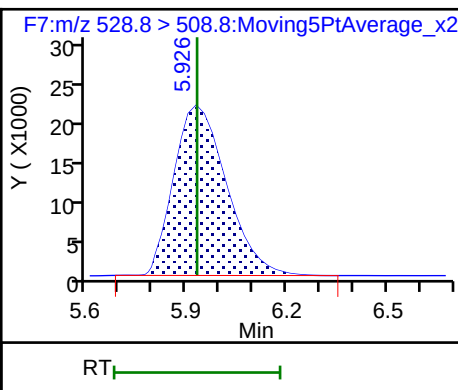
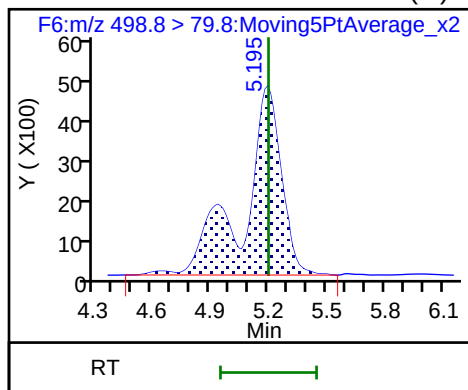
## D 22 13C4 PFOS



## 21 Perfluorooctanesulfonic acid (M)

## D 24 M2-8:2 FTS

## 23 1H,1H,2H,2H-perfluorodecanesulfonate

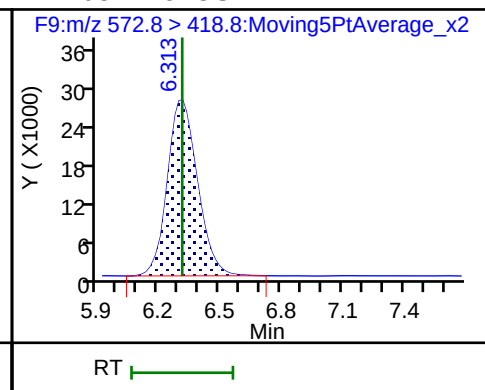
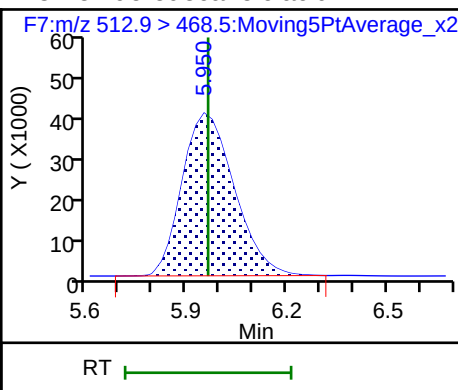
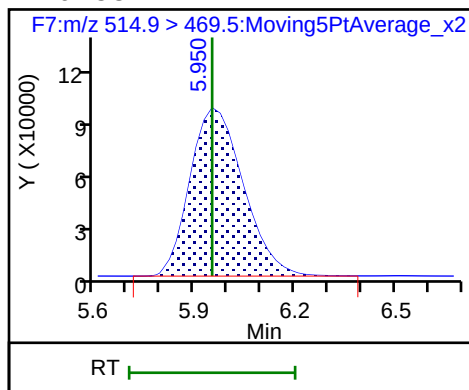




## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

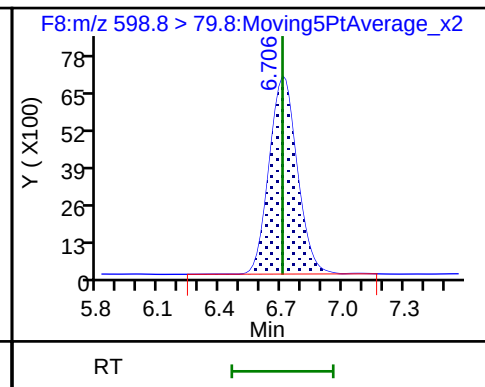
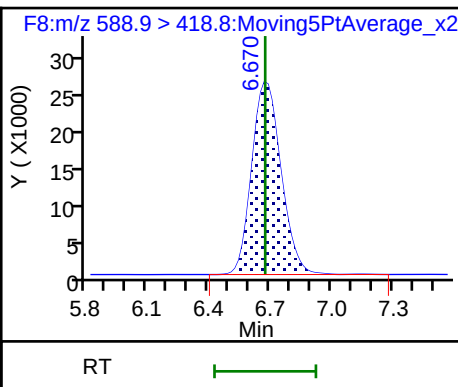
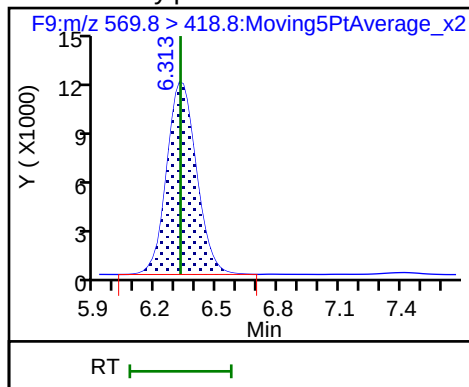
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamidD

## 29 d5-NEtFOSAA

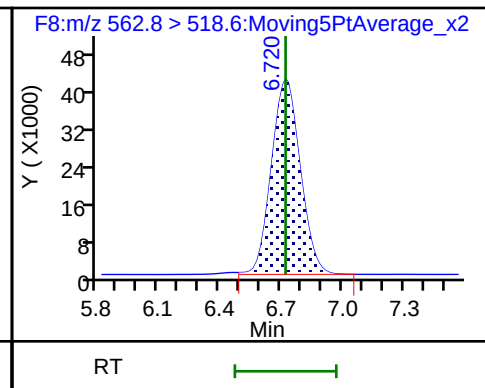
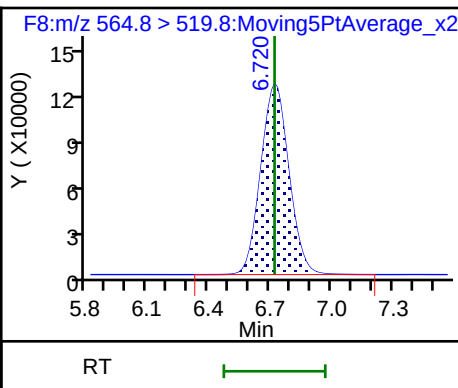
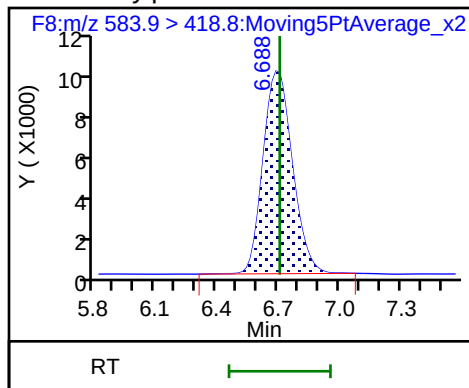
## 31 Perfluorodecanesulfonic acid



## 30 N-ethylperfluorooctanesulfonamidod

## 32 13C2 PFUnA

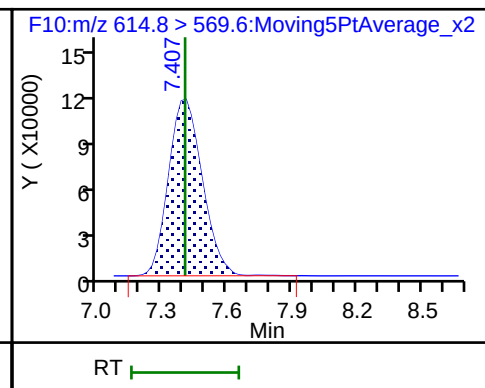
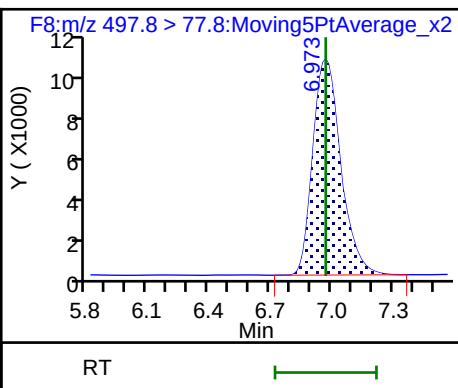
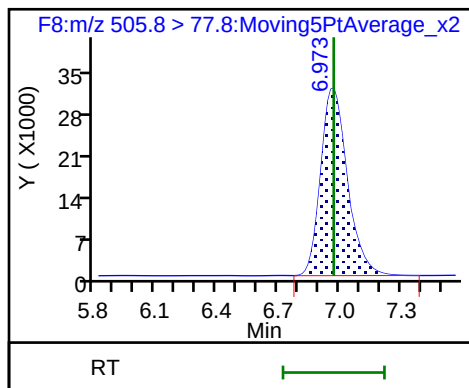
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

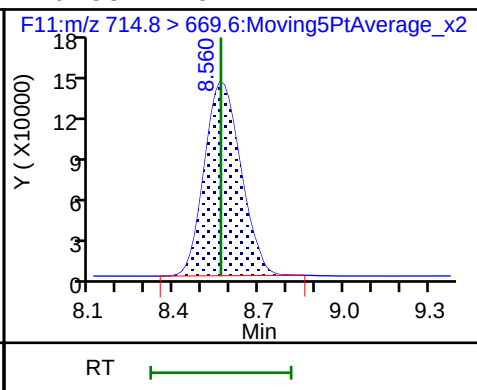
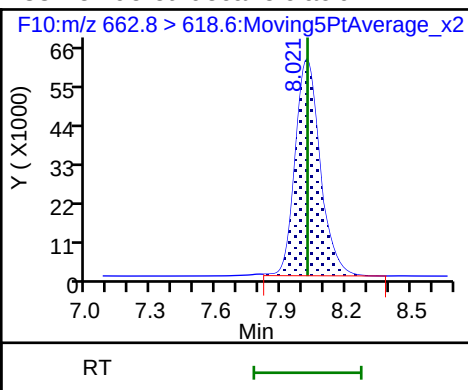
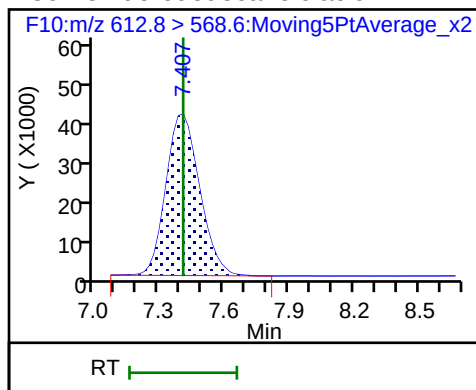
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

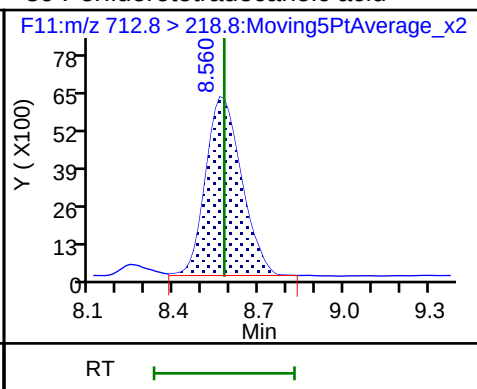
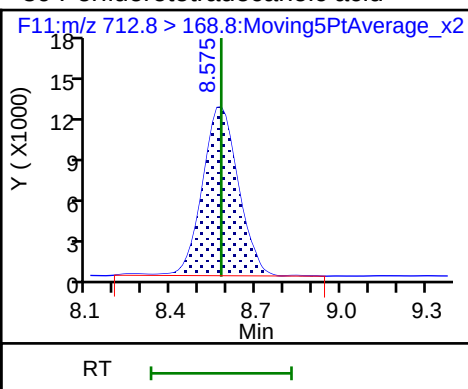
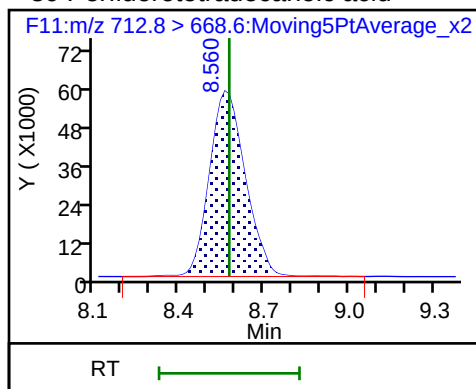
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

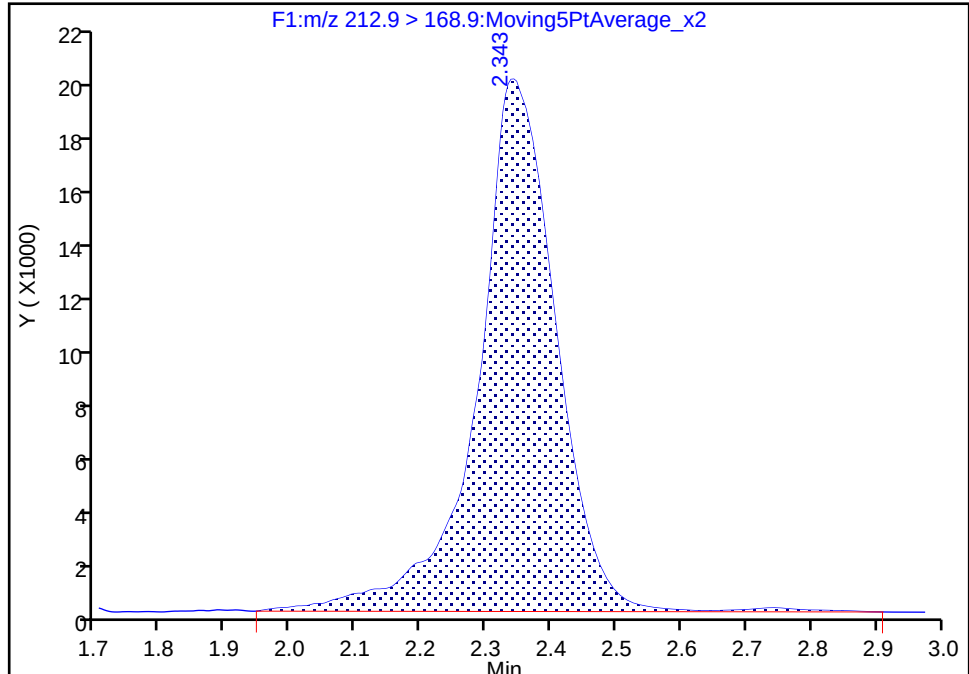
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A10.d  
Injection Date: 12-Oct-2018 18:32:30 Instrument ID: LC410  
Lims ID: ICIS  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

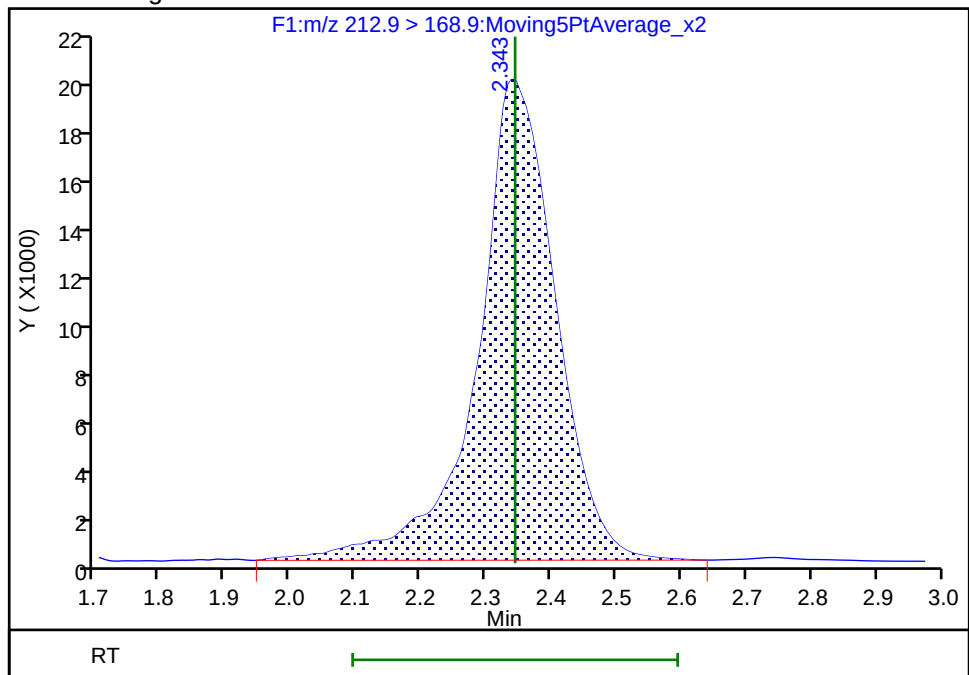
RT: 2.34  
Area: 166437  
Amount: 20.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.34  
Area: 164764  
Amount: 19.009618  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:31:46  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

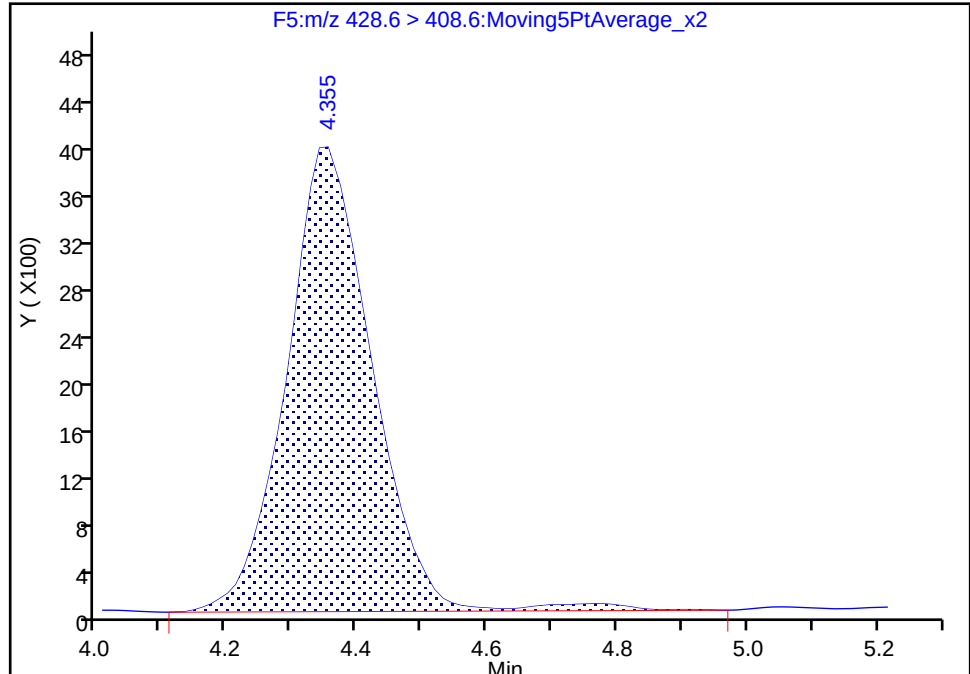
|                 |                                                                     |                |                     |
|-----------------|---------------------------------------------------------------------|----------------|---------------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A10.d |                |                     |
| Injection Date: | 12-Oct-2018 18:32:30                                                | Instrument ID: | LC410               |
| Lims ID:        | ICIS                                                                |                |                     |
| Client ID:      |                                                                     |                |                     |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0 Worklist Smp#: 10 |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000              |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL         |
| Column:         |                                                                     | Detector       | F5:MRM              |

**D 13 M2-6:2 FTS, CAS: STL02279**

Signal: 1

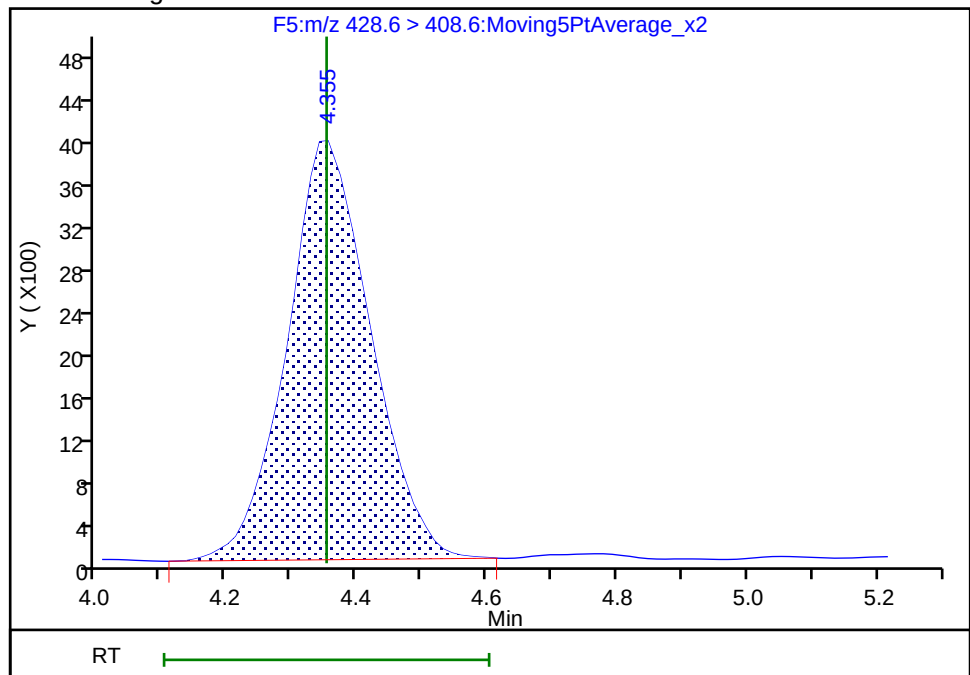
RT: 4.36  
Area: 35720  
Amount: 53.009407  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.36  
Area: 34833  
Amount: 52.273268  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:32:05  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

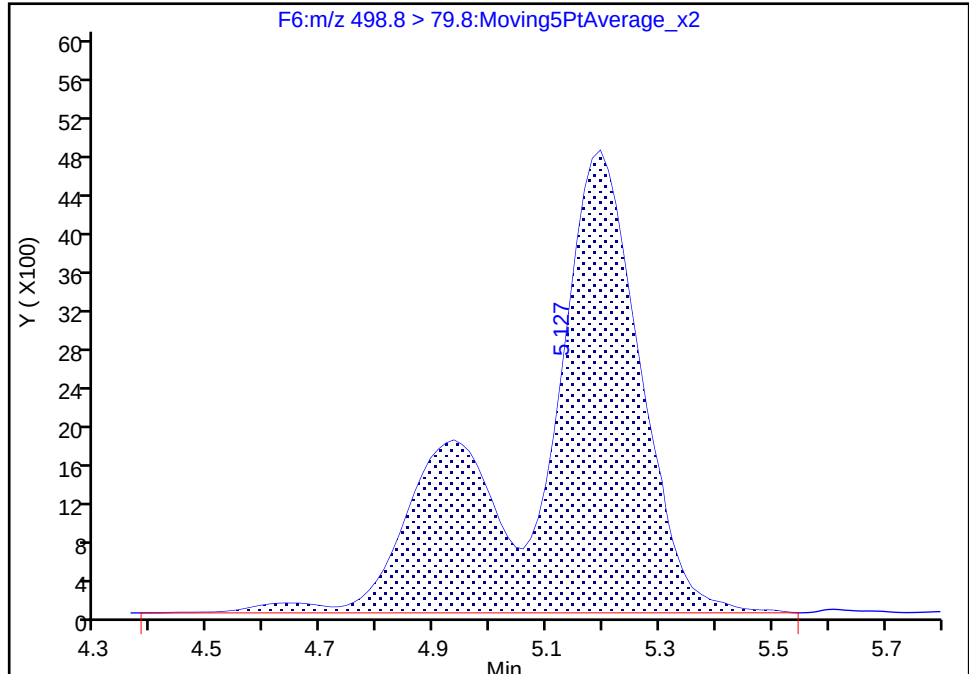
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A10.d |                |             |
| Injection Date: | 12-Oct-2018 18:32:30                                                | Instrument ID: | LC410       |
| Lims ID:        | ICIS                                                                |                |             |
| Client ID:      |                                                                     |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector       | F6:MRM      |
|                 |                                                                     | Worklist Smp#: | 10          |

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

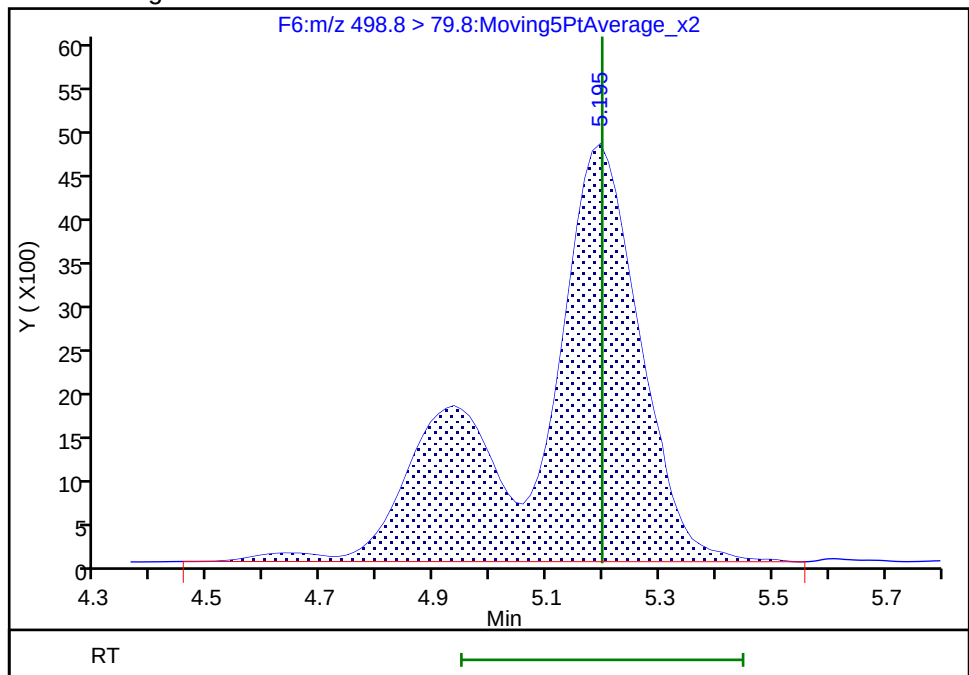
RT: 5.13  
Area: 64844  
Amount: 20.000000  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.20  
Area: 64638  
Amount: 19.766127  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:32:15  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A11.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 12-Oct-2018 18:48:28 ALS Bottle#: 0 Worklist Smp#: 11  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-011 IC 6  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:23:42 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 12-Oct-2018 21:45:42

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |        |        |        |          |              |               |      |      |       |
| 216.9 > 171.5                         | 2.338 | 2.343  | -0.005 | 1.000  | 401136   | 45.9         |               | 91.8 | 288  |       |
| 2 Perfluorobutanoic acid              |       |        |        |        |          |              |               |      |      |       |
| 212.9 > 168.9                         | 2.343 | 2.344  | -0.001 | 1.002  | 242827   | 31.6         |               | 105  | 347  |       |
| D 3 13C5 PFPeA                        |       |        |        |        |          |              |               |      |      |       |
| 267.7 > 222.6                         | 2.760 | 2.763  | -0.003 | 1.000  | 91003    | 43.4         |               | 86.9 | 745  |       |
| 4 Perfluoropentanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 262.9 > 218.8                         | 2.760 | 2.763  | -0.003 | 1.000  | 376350   | 30.5         |               | 102  | 440  |       |
| D 6 13C3 PFBS                         |       |        |        |        |          |              |               |      |      | M     |
| 302.0 > 79.8                          | 2.834 | 2.827  | 0.007  | 1.000  | 117481   | 38.3         |               | 82.4 | 336  | M     |
| 5 Perfluorobutanesulfonic acid        |       |        |        |        |          |              |               |      |      | M     |
| 298.9 > 80.0                          | 2.834 | 2.830  | 0.004  | 1.000  | 166809   | 32.5         |               | 108  | 420  | M     |
| D 7 13C2 PFHxA                        |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                         | 3.189 | 3.188  | 0.001  | 1.000  | 299158   | 46.9         |               | 93.7 | 1667 |       |
| 8 Perfluorohexanoic acid              |       |        |        |        |          |              |               |      |      |       |
| 312.8 > 268.6                         | 3.189 | 3.189  | 0.0    | 1.000  | 185849   | 29.2         |               | 97.4 | 2731 |       |
| D 9 13C4 PFHpA                        |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                         | 3.726 | 3.725  | 0.001  | 1.000  | 910430   | 48.7         |               | 97.5 | 1498 |       |
| 10 Perfluoroheptanoic acid            |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                         | 3.726 | 3.728  | -0.002 | 1.000  | 534319   | 29.2         |               | 97.3 | 979  |       |
| 12 Perfluorohexanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 399.0 > 80.0                          | 3.770 | 3.768  | 0.002  | 1.000  | 177638   | 30.2         |               | 101  | 883  |       |
| D 11 18O2 PFHxS                       |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                          | 3.770 | 3.769  | 0.001  | 1.000  | 148933   | 40.3         |               | 85.2 | 1046 |       |
| D 13 M2-6:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                         | 4.342 | 4.353  | -0.011 | 1.000  | 30470    | 45.2         |               | 95.1 | 192  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 426.6 > 406.6                         | 4.342 | 4.360  | -0.018 | 1.000  | 15379    | 23.2         |               | 77.3 | 231  |       |

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags      |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|------------|
| * 15 13C2 PFOA                        |       |           |           |           |          |                 |               |      |      |            |
| 414.9 > 369.8                         | 4.412 | 4.401     | 0.011     |           | 810085   | 50.0            |               |      | 1475 |            |
| D 17 13C4 PFOA                        |       |           |           |           |          |                 |               |      |      |            |
| 416.9 > 371.8                         | 4.412 | 4.407     | 0.005     | 1.000     | 735752   | 49.1            |               | 98.1 | 1523 |            |
| 16 Perfluorooctanoic acid             |       |           |           |           |          |                 |               |      |      |            |
| 412.9 > 368.8                         | 4.412 | 4.409     | 0.003     | 1.000     | 459843   | 29.9            |               | 99.5 | 1479 |            |
| 18 Perfluoroheptanesulfonic acid      |       |           |           |           |          |                 |               |      |      |            |
| 448.8 > 79.8                          | 4.430 | 4.441     | -0.011    | 0.853     | 77500    | 30.8            |               | 103  | 706  |            |
| D 20 13C5 PFNA                        |       |           |           |           |          |                 |               |      |      |            |
| 467.8 > 422.8                         | 5.168 | 5.171     | -0.003    | 1.000     | 896869   | 46.7            |               | 93.5 | 906  |            |
| 19 Perfluorononanoic acid             |       |           |           |           |          |                 |               |      |      |            |
| 462.8 > 418.8                         | 5.168 | 5.175     | -0.007    | 1.000     | 584725   | 30.3            |               | 101  | 4608 |            |
| D 22 13C4 PFOS                        |       |           |           |           |          |                 |               |      |      |            |
| 502.8 > 79.8                          | 5.195 | 5.195     | 0.0       | 1.000     | 136716   | 44.1            |               | 92.3 | 890  |            |
| 21 Perfluorooctanesulfonic acid       |       |           |           |           |          |                 |               |      |      |            |
| 498.8 > 79.8                          | 5.195 | 5.198     | -0.003    | 1.000     | 84900    | 28.7            |               | 95.8 | 797  | M          |
| D 24 M2-8:2 FTS                       |       |           |           |           |          |                 |               |      |      |            |
| 528.8 > 508.8                         | 5.926 | 5.929     | -0.003    | 1.000     | 234540   | 46.3            |               | 96.6 | 1642 |            |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |           |           |           |          |                 |               |      |      |            |
| 526.8 > 506.5                         | 5.926 | 5.932     | -0.006    | 1.000     | 116513   | 33.1            |               | 110  | 975  |            |
| D 26 13C2 PFDA                        |       |           |           |           |          |                 |               |      |      |            |
| 514.9 > 469.5                         | 5.950 | 5.950     | 0.0       | 1.000     | 1066744  | 50.7            |               | 101  | 1045 |            |
| 25 Perfluorodecanoic acid             |       |           |           |           |          |                 |               |      |      |            |
| 512.9 > 468.5                         | 5.950 | 5.960     | -0.010    | 1.000     | 624446   | 29.4            |               | 98.0 | 905  |            |
| D 27 d3-NMeFOSAA                      |       |           |           |           |          |                 |               |      |      |            |
| 572.8 > 418.8                         | 6.313 | 6.311     | 0.002     | 1.000     | 300668   | 50.8            |               | 102  | 2321 |            |
| 28 N-methylperfluorooctanesulfonamido |       |           |           |           |          |                 |               |      |      |            |
| 569.8 > 418.8                         | 6.313 | 6.317     | -0.004    | 1.000     | 191315   | 30.1            |               | 100  | 452  |            |
| D 29 d5-NEtFOSAA                      |       |           |           |           |          |                 |               |      |      |            |
| 588.9 > 418.8                         | 6.670 | 6.674     | -0.004    | 1.000     | 248545   | 48.3            |               | 96.6 | 1071 |            |
| 31 Perfluorodecanesulfonic acid       |       |           |           |           |          |                 |               |      |      |            |
| 598.8 > 79.8                          | 6.706 | 6.706     | 0.0       | 1.291     | 89475    | 27.4            |               | 91.5 | 785  |            |
| 30 N-ethylperfluorooctanesulfonamidoa |       |           |           |           |          |                 |               |      |      |            |
| 583.9 > 418.8                         | 6.688 | 6.703     | -0.015    | 1.003     | 153237   | 31.4            |               | 105  | 1513 |            |
| D 32 13C2 PFUnA                       |       |           |           |           |          |                 |               |      |      |            |
| 564.8 > 519.8                         | 6.720 | 6.720     | 0.0       | 1.000     | 1233174  | 51.2            |               | 102  | 2876 |            |
| 33 Perfluoroundecanoic acid           |       |           |           |           |          |                 |               |      |      |            |
| 562.8 > 518.6                         | 6.720 | 6.720     | 0.0       | 1.000     | 626445   | 28.7            |               | 95.6 | 2418 |            |
| D 35 13C8 FOSA                        |       |           |           |           |          |                 |               |      |      |            |
| 505.8 > 77.8                          | 6.973 | 6.973     | 0.0       | 1.000     | 230250   | 41.9            |               | 83.8 | 1269 |            |
| 34 Perfluorooctanesulfonamide         |       |           |           |           |          |                 |               |      |      |            |
| 497.8 > 77.8                          | 6.973 | 6.973     | 0.0       | 1.000     | 124241   | 31.5            |               | 105  | 1231 |            |
| D 37 13C2 PFDoA                       |       |           |           |           |          |                 |               |      |      |            |
| 614.8 > 569.6                         | 7.407 | 7.402     | 0.005     | 1.000     | 1316245  | 49.8            |               | 99.7 | 4922 |            |
| 36 Perfluorododecanoic acid           |       |           |           |           |          |                 |               |      |      |            |
| 612.8 > 568.6                         | 7.407 | 7.407     | 0.0       | 1.000     | 666685   | 29.3            |               | 97.6 | 3413 |            |
| 38 Perfluorotridecanoic acid          |       |           |           |           |          |                 |               |      |      |            |
| 662.8 > 618.6                         | 8.012 | 8.022     | -0.010    | 0.936     | 414426   | 24.5            |               | 81.5 | 211  | 11/19/2018 |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A11.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.560 | 8.563     | -0.003    | 1.000     | 910155   | 35.5            |                 | 70.9 | 1127 |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      | M     |
| 712.8 > 668.6                  | 8.560 | 8.572     | -0.012    | 1.000     | 491369   | 27.6            |                 | 92.0 | 536  |       |
| 712.8 > 168.8                  | 8.560 | 8.572     | -0.012    | 1.000     | 97453    |                 | 5.04(0.00-0.00) | 92.0 | 383  |       |
| 712.8 > 218.8                  | 8.560 | 8.572     | -0.012    | 1.000     | 55172    |                 | 8.91(0.00-0.00) | 92.0 | 97.7 | M     |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L4A\_00001

Amount Added: 100.00

Units: uL



## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A11.d

Injection Date: 12-Oct-2018 18:48:28

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

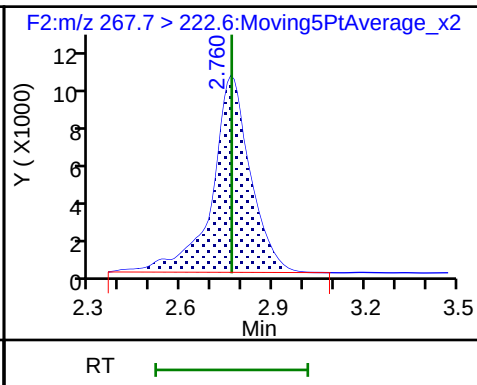
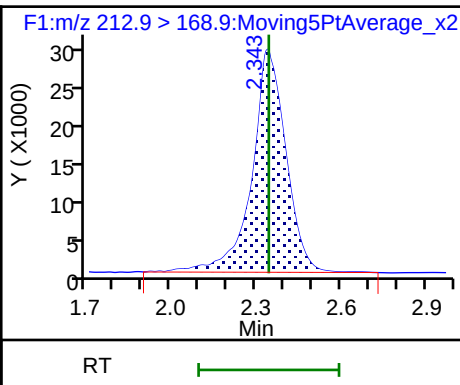
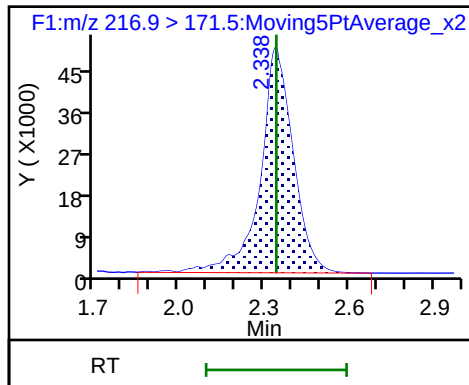
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

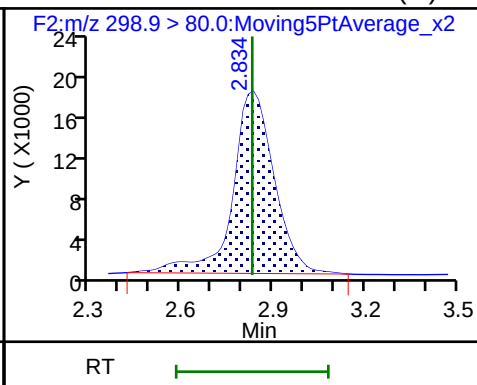
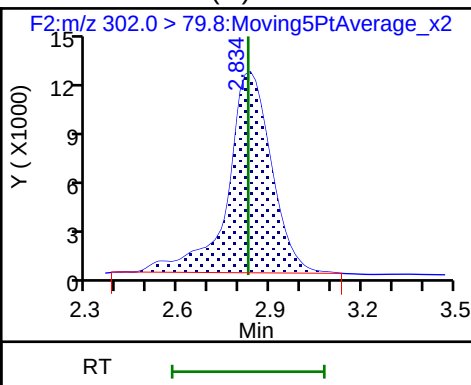
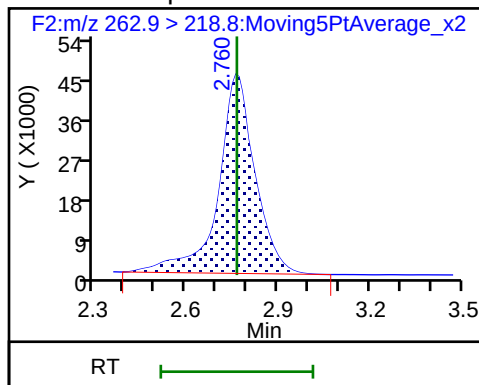
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 6 13C3 PFBS (M)

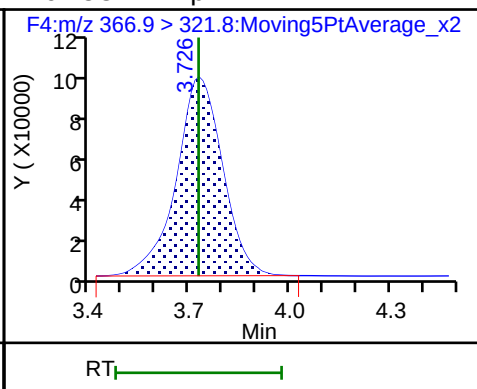
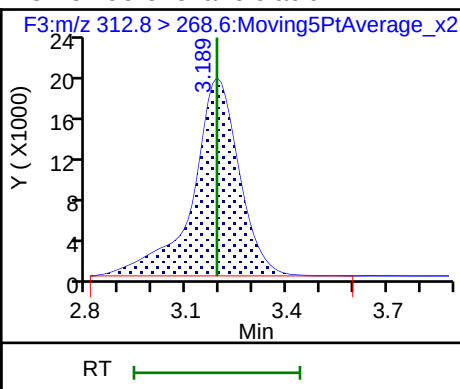
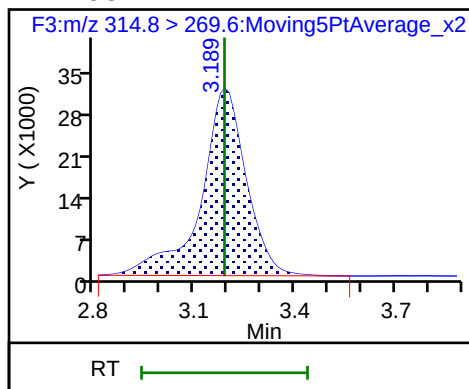
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

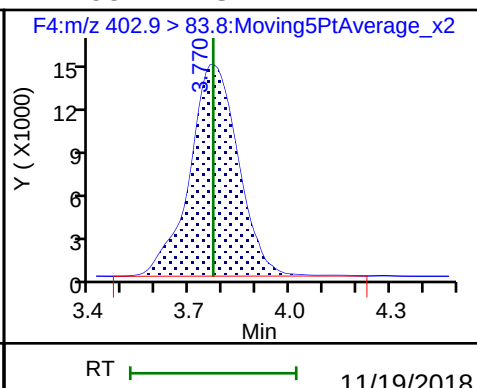
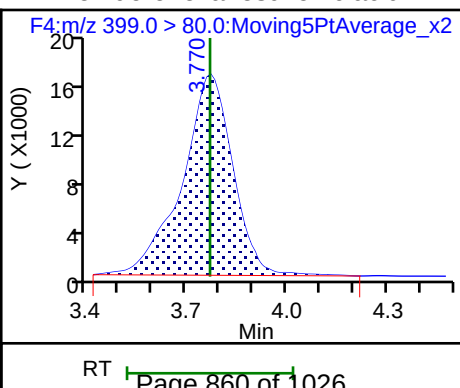
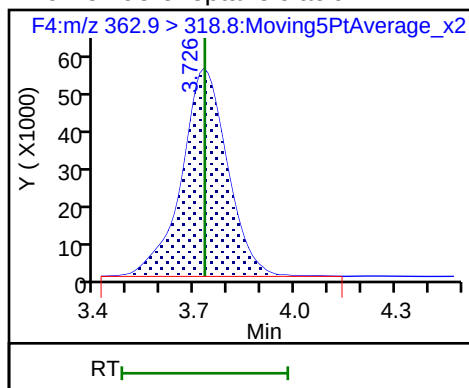
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

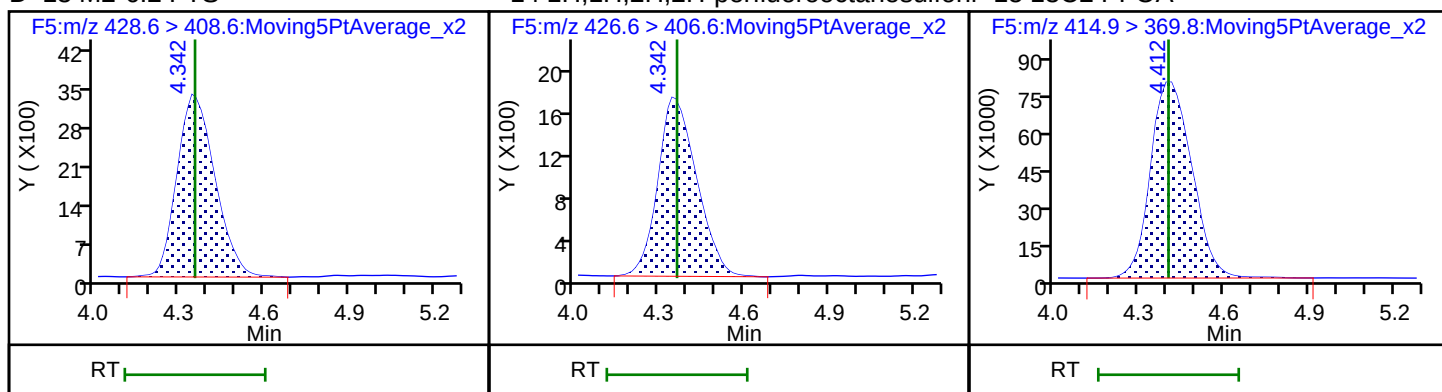
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

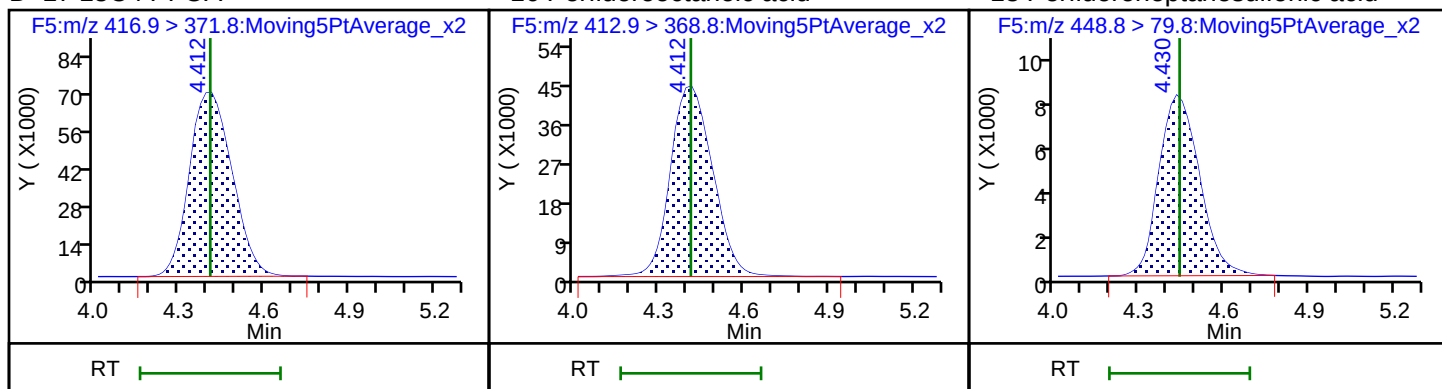
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

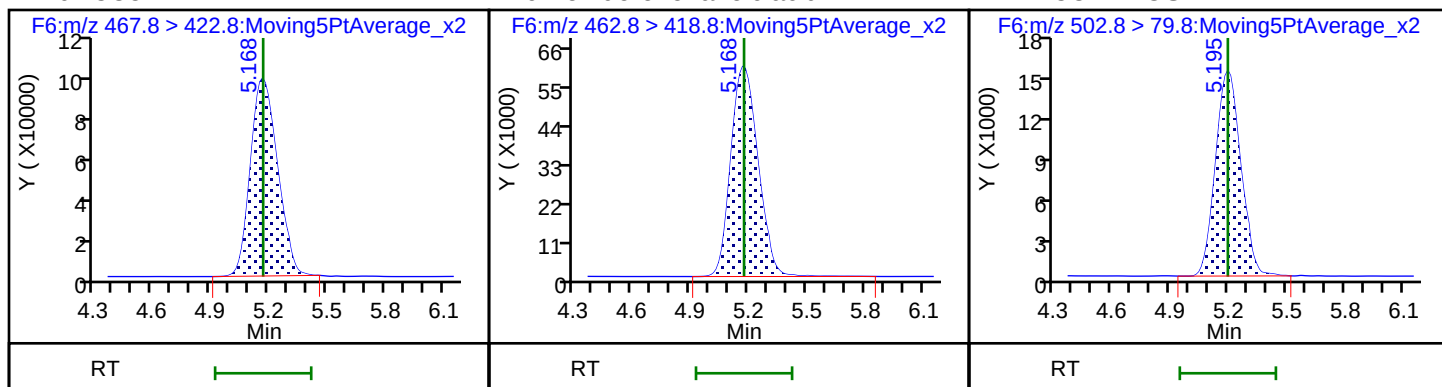
18 Perfluoroheptanesulfonic acid



D 20 13C5 PFNA

19 Perfluorononanoic acid

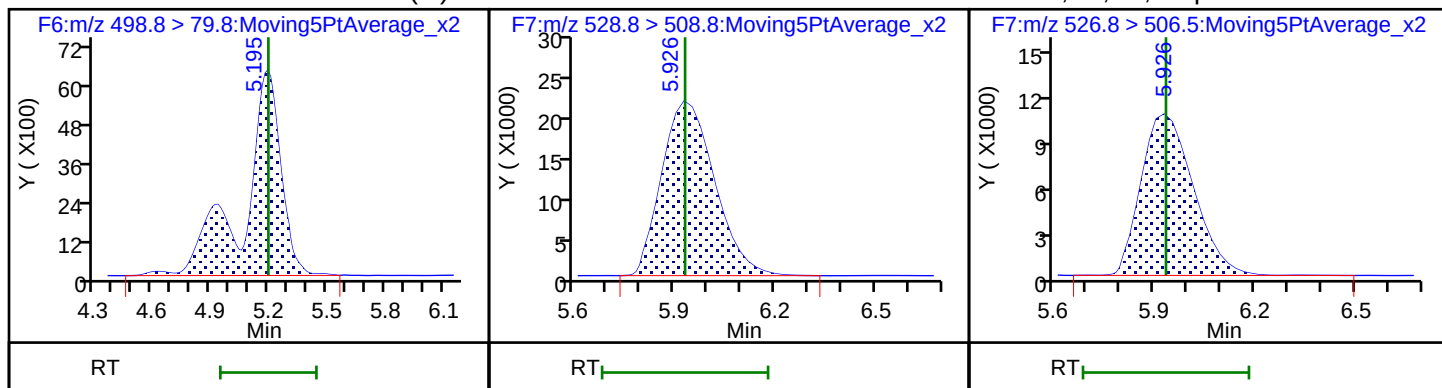
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

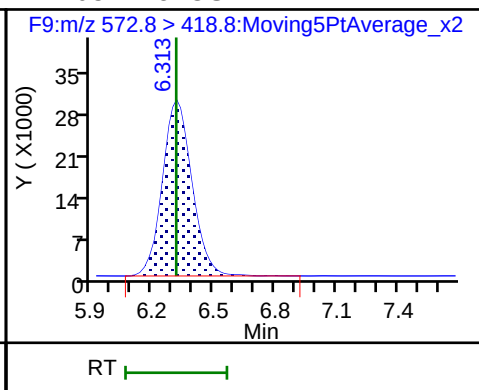
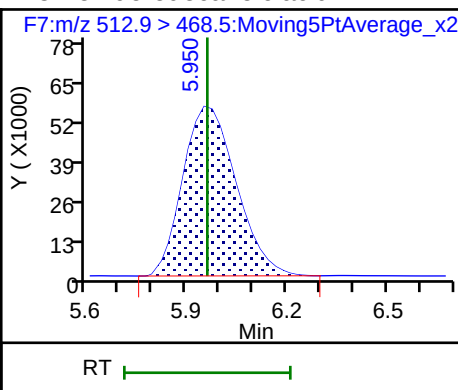
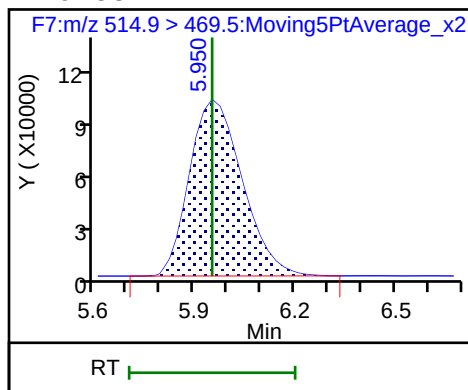
23 1H,1H,2H,2H-perfluorodecanesulfonate



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

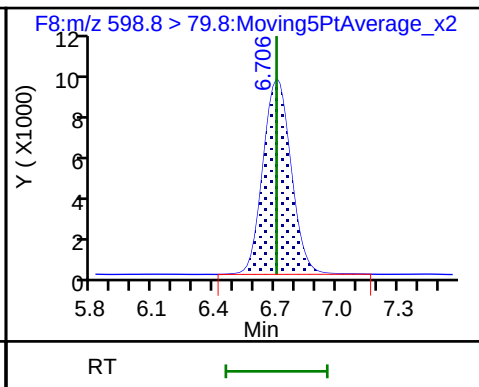
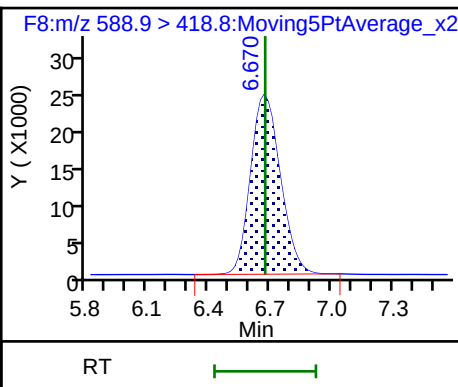
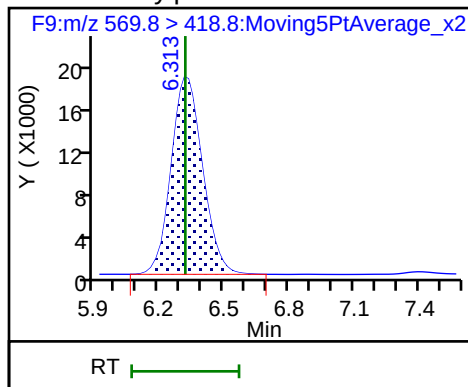
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamidD

## 29 d5-NEtFOSAA

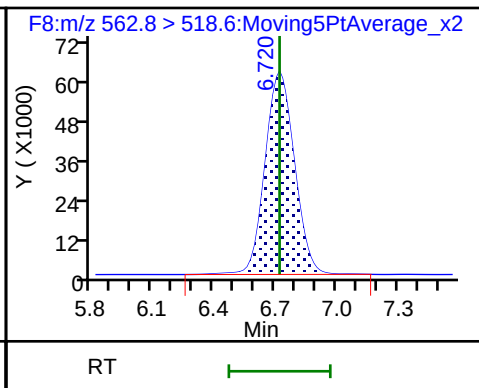
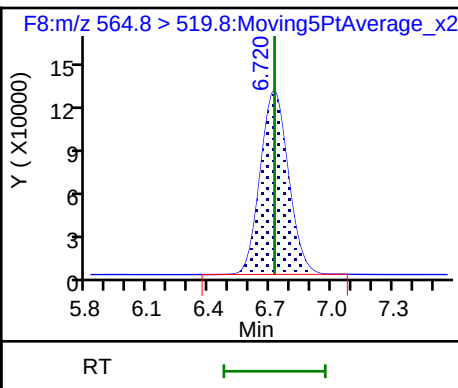
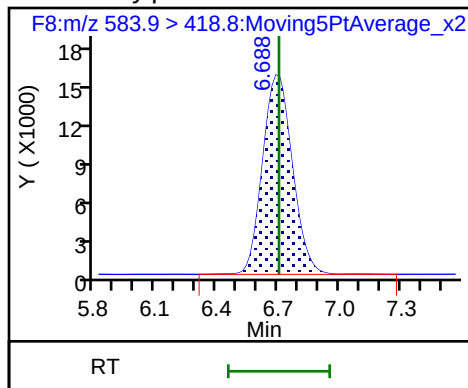
## 31 Perfluorodecanesulfonic acid



## 30 N-ethylperfluorooctanesulfonamidD

## 32 13C2 PFUnA

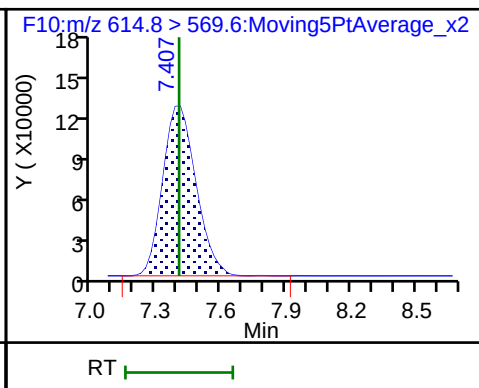
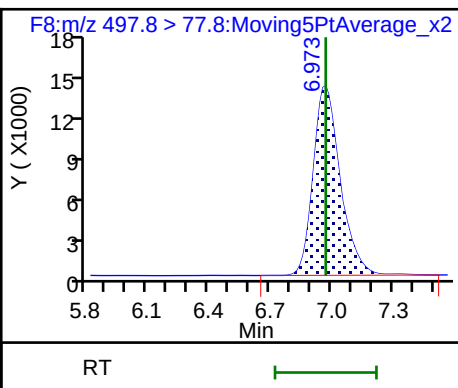
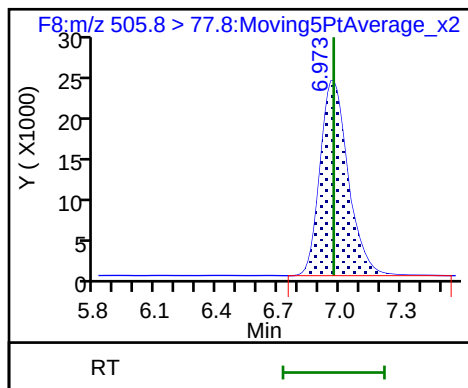
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

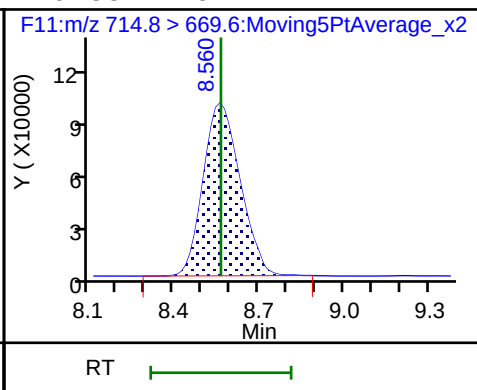
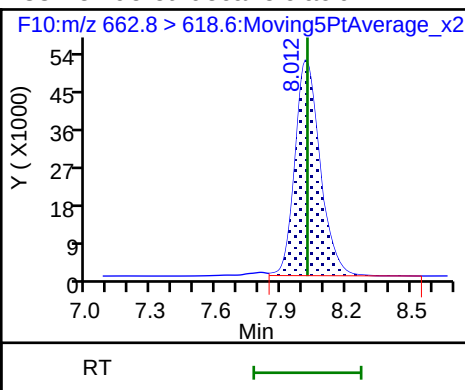
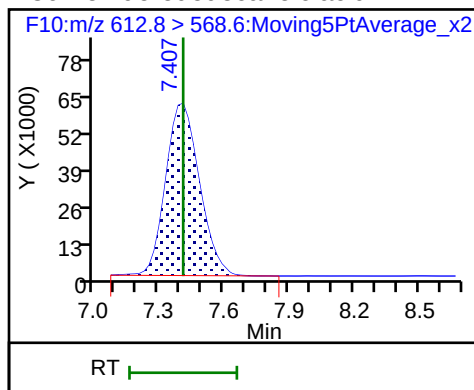
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

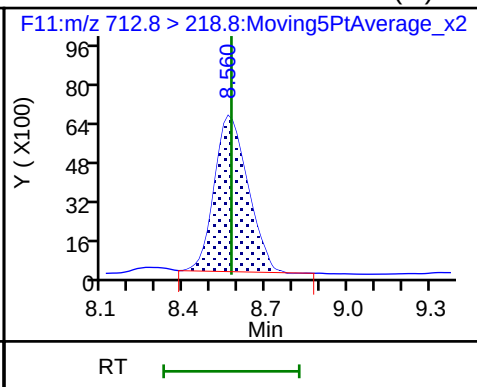
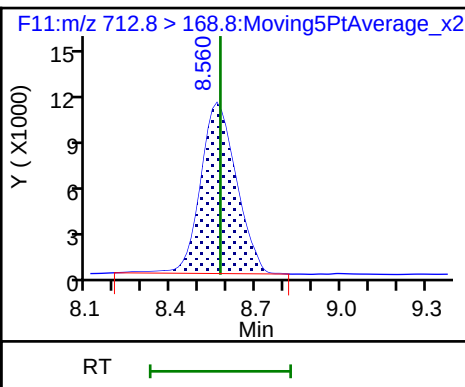
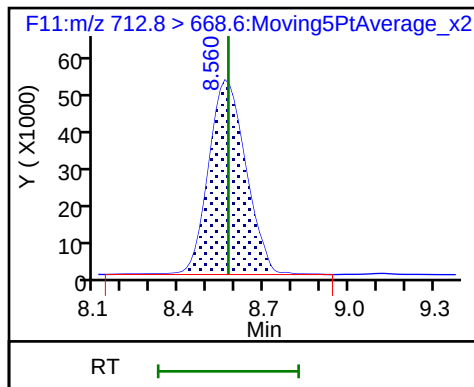
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid (M)



## TestAmerica Burlington

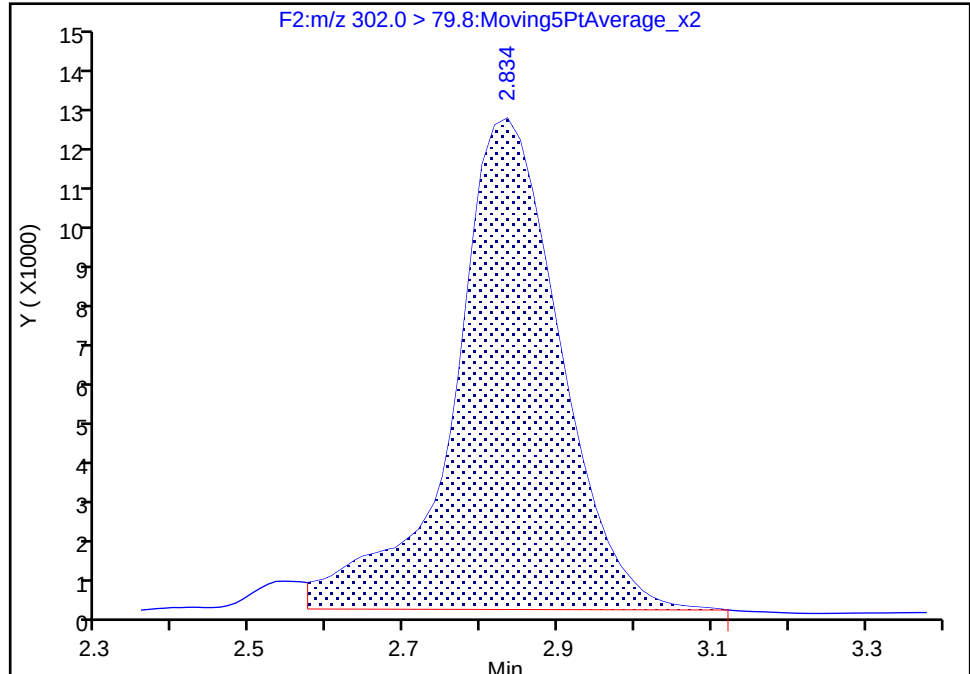
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A11.d  
Injection Date: 12-Oct-2018 18:48:28 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

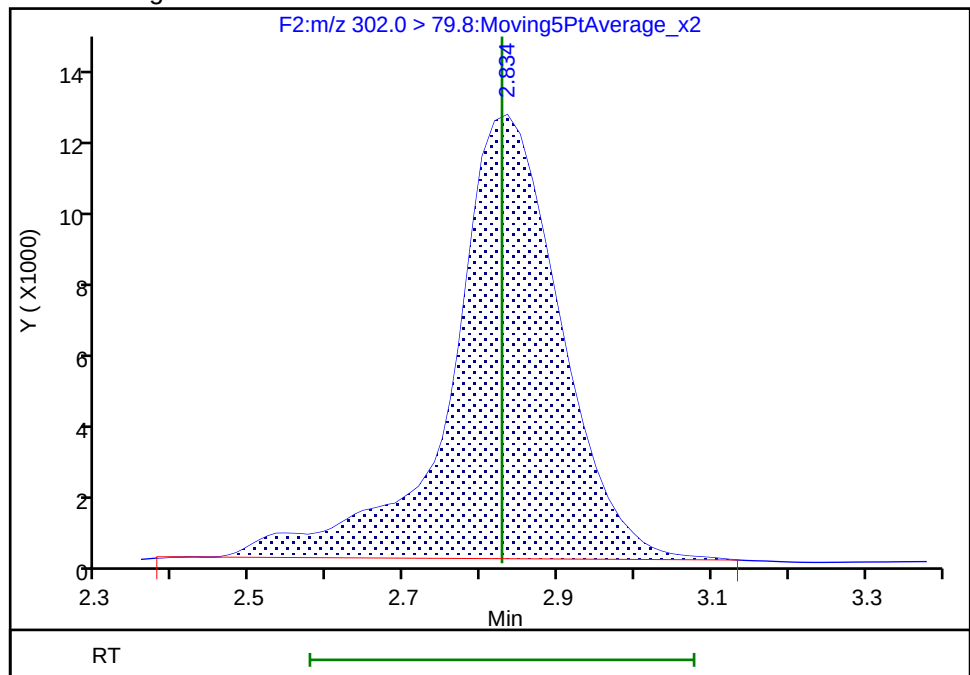
RT: 2.83  
Area: 114664  
Amount: 38.378332  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.83  
Area: 117481  
Amount: 38.321195  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:45:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

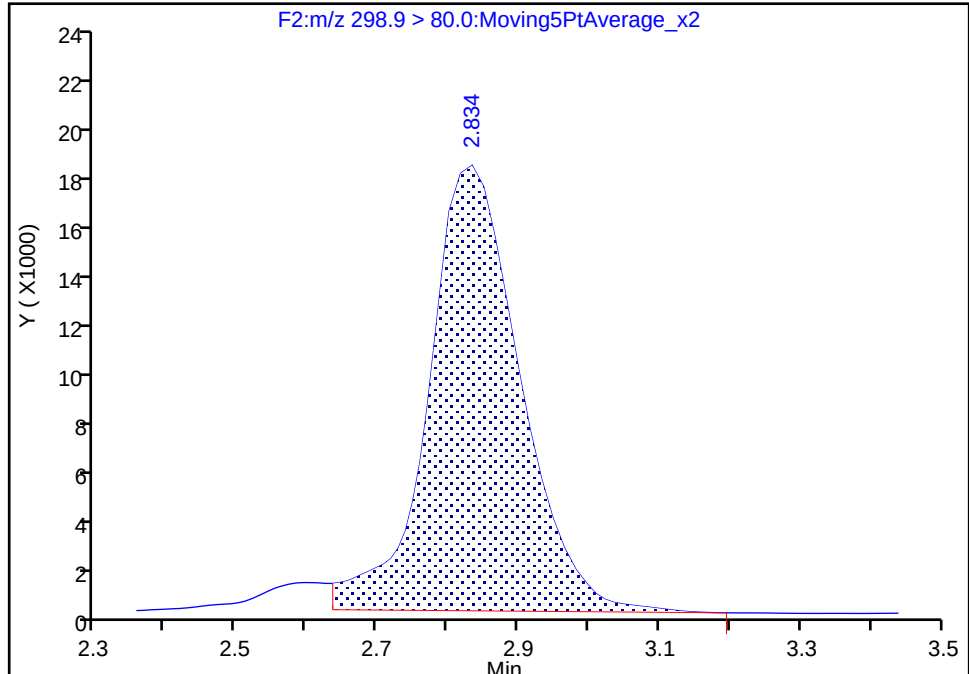
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A11.d  
Injection Date: 12-Oct-2018 18:48:28 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

Signal: 1

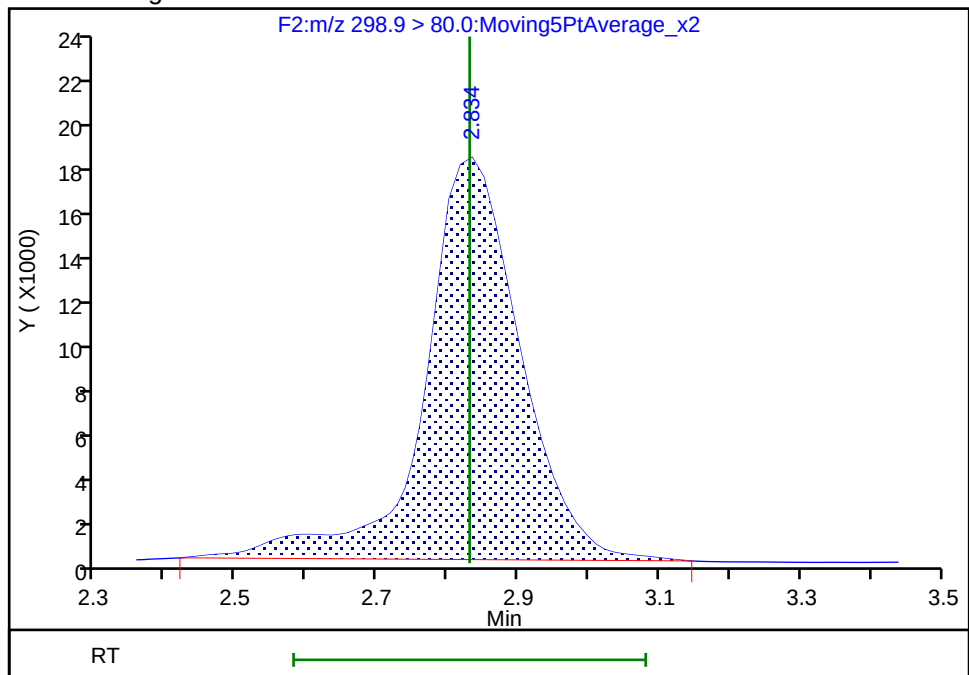
RT: 2.83  
Area: 160340  
Amount: 31.212192  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.83  
Area: 166809  
Amount: 32.472826  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:45:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

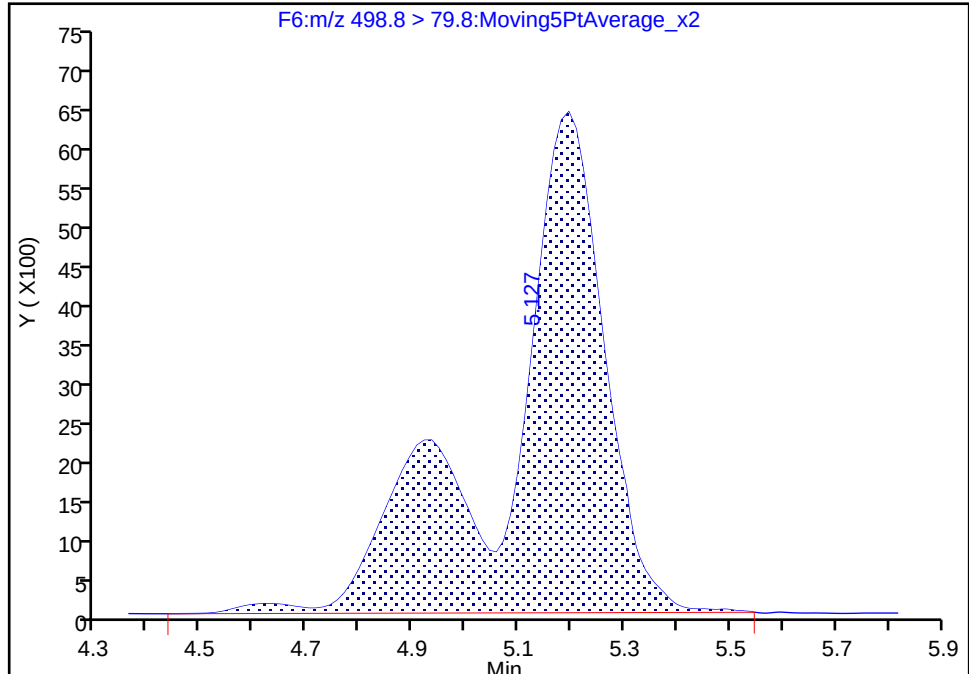
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A11.d  
Injection Date: 12-Oct-2018 18:48:28 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

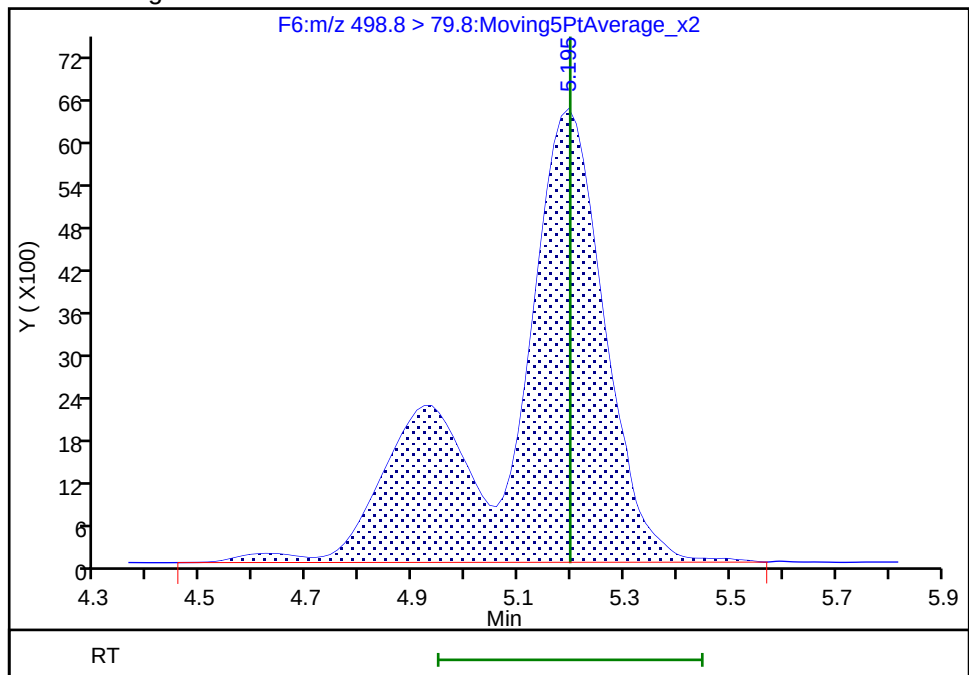
RT: 5.13  
Area: 84552  
Amount: 29.315887  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.20  
Area: 84900  
Amount: 28.738892  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:45:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

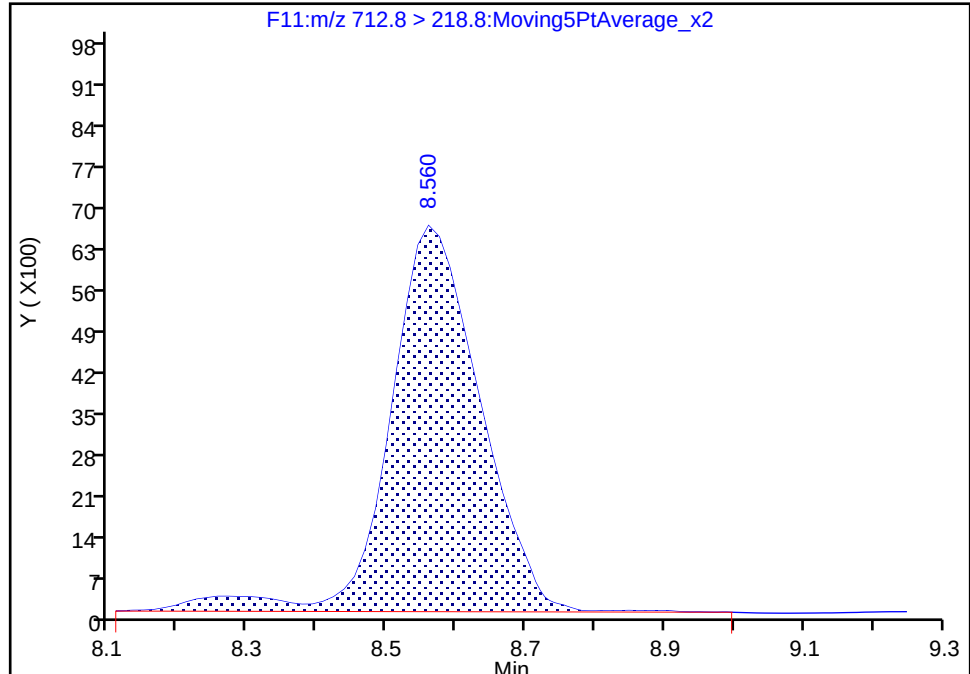
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A11.d  
Injection Date: 12-Oct-2018 18:48:28 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F11:MRM

**39 Perfluorotetradecanoic acid, CAS: 376-06-7**

Signal: 3

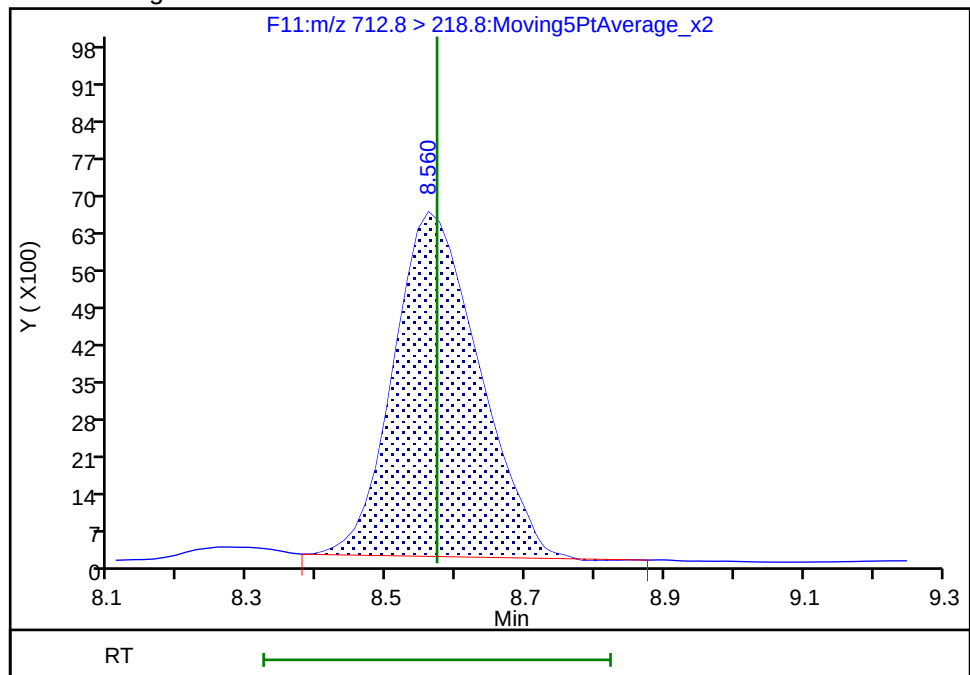
RT: 8.56  
Area: 59697  
Amount: 28.205809  
Amount Units: ng/ml

## Processing Integration Results



RT: 8.56  
Area: 55172  
Amount: 27.604126  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:45:39  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A12.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 12-Oct-2018 19:04:18 ALS Bottle#: 0 Worklist Smp#: 12  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-012 IC 7  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:23:47 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 12-Oct-2018 21:46:41

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N   | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|-------|-------|
| D 1 13C4 PFBA                         |       |        |        |        |          |              |               |      |       | M     |
| 216.9 > 171.5                         | 2.343 | 2.342  | 0.001  | 1.000  | 395747   | 50.7         |               | 101  | 433   | M     |
| 2 Perfluorobutanoic acid              |       |        |        |        |          |              |               |      |       |       |
| 212.9 > 168.9                         | 2.343 | 2.344  | -0.001 | 1.000  | 378404   | 49.9         |               | 99.8 | 242   |       |
| D 3 13C5 PFPeA                        |       |        |        |        |          |              |               |      |       |       |
| 267.7 > 222.6                         | 2.760 | 2.763  | -0.003 | 1.000  | 99663    | 53.2         |               | 106  | 1065  |       |
| 4 Perfluoropentanoic acid             |       |        |        |        |          |              |               |      |       |       |
| 262.9 > 218.8                         | 2.760 | 2.763  | -0.003 | 1.000  | 664345   | 49.2         |               | 98.4 | 1296  |       |
| D 6 13C3 PFBS                         |       |        |        |        |          |              |               |      |       | M     |
| 302.0 > 79.8                          | 2.834 | 2.828  | 0.006  | 1.000  | 148157   | 54.0         |               | 116  | 460   | M     |
| 5 Perfluorobutanesulfonic acid        |       |        |        |        |          |              |               |      |       |       |
| 298.9 > 80.0                          | 2.834 | 2.830  | 0.004  | 1.000  | 301253   | 46.5         |               | 93.0 | 554   |       |
| D 7 13C2 PFHxA                        |       |        |        |        |          |              |               |      |       |       |
| 314.8 > 269.6                         | 3.189 | 3.188  | 0.001  | 1.000  | 291593   | 51.1         |               | 102  | 2103  |       |
| 8 Perfluorohexanoic acid              |       |        |        |        |          |              |               |      |       |       |
| 312.8 > 268.6                         | 3.189 | 3.189  | 0.0    | 1.000  | 312599   | 50.4         |               | 101  | 2130  |       |
| D 9 13C4 PFHpA                        |       |        |        |        |          |              |               |      |       |       |
| 366.9 > 321.8                         | 3.726 | 3.725  | 0.001  | 1.000  | 860587   | 51.5         |               | 103  | 2214  |       |
| 10 Perfluoroheptanoic acid            |       |        |        |        |          |              |               |      |       |       |
| 362.9 > 318.8                         | 3.726 | 3.728  | -0.002 | 1.000  | 868054   | 50.2         |               | 100  | 22399 |       |
| 12 Perfluorohexanesulfonic acid       |       |        |        |        |          |              |               |      |       |       |
| 399.0 > 80.0                          | 3.770 | 3.768  | 0.002  | 1.000  | 317155   | 47.9         |               | 95.7 | 580   |       |
| D 11 18O2 PFHxS                       |       |        |        |        |          |              |               |      |       |       |
| 402.9 > 83.8                          | 3.770 | 3.769  | 0.001  | 1.000  | 167958   | 50.8         |               | 107  | 159   |       |
| D 13 M2-6:2 FTS                       |       |        |        |        |          |              |               |      |       |       |
| 428.6 > 408.6                         | 4.355 | 4.353  | 0.002  | 1.000  | 29460    | 48.8         |               | 103  | 234   |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |        |        |        |          |              |               |      |       |       |
| 426.6 > 406.6                         | 4.355 | 4.357  | -0.002 | 1.000  | 26917    | 42.0         |               | 84.0 | 336   |       |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| * 15 13C2 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                         | 4.393 | 4.401  | -0.008 |        | 724496   | 50.0         |               |      | 3849 |       |
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                         | 4.411 | 4.407  | 0.004  | 1.000  | 712269   | 53.1         |               | 106  | 1254 |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 412.9 > 368.8                         | 4.411 | 4.409  | 0.002  | 1.000  | 712216   | 47.8         |               | 95.5 | 1599 |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |      |      |       |
| 448.8 > 79.8                          | 4.449 | 4.441  | 0.008  | 0.856  | 137152   | 52.9         |               | 106  | 891  |       |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |      |      |       |
| 467.8 > 422.8                         | 5.168 | 5.171  | -0.003 | 1.000  | 874059   | 50.9         |               | 102  | 787  |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 462.8 > 418.8                         | 5.168 | 5.175  | -0.007 | 1.000  | 937170   | 50.1         |               | 100  | 2269 |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |      |      |       |
| 502.8 > 79.8                          | 5.195 | 5.195  | 0.0    | 1.000  | 140981   | 50.9         |               | 106  | 768  |       |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 498.8 > 79.8                          | 5.195 | 5.197  | -0.002 | 1.000  | 157043   | 51.6         |               | 103  | 816  | M     |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 528.8 > 508.8                         | 5.926 | 5.929  | -0.003 | 1.000  | 226275   | 49.9         |               | 104  | 976  |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 526.8 > 506.5                         | 5.926 | 5.932  | -0.006 | 1.000  | 168509   | 49.6         |               | 99.2 | 805  |       |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |      |      |       |
| 514.9 > 469.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 975655   | 51.9         |               | 104  | 6503 |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 512.9 > 468.5                         | 5.950 | 5.958  | -0.008 | 1.000  | 994639   | 51.2         |               | 102  | 2617 |       |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 572.8 > 418.8                         | 6.313 | 6.311  | 0.002  | 1.000  | 266170   | 50.2         |               | 100  | 871  |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |      |      |       |
| 569.8 > 418.8                         | 6.313 | 6.316  | -0.003 | 1.000  | 290551   | 51.7         |               | 103  | 732  |       |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 588.9 > 418.8                         | 6.670 | 6.674  | -0.004 | 1.000  | 228581   | 49.7         |               | 99.4 | 1120 |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |      |      |       |
| 583.9 > 418.8                         | 6.688 | 6.700  | -0.012 | 1.003  | 230444   | 51.3         |               | 103  | 1731 |       |
| 31 Perfluorodecanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 598.8 > 79.8                          | 6.706 | 6.706  | 0.0    | 1.291  | 164703   | 49.0         |               | 98.0 | 2430 |       |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |      |      |       |
| 564.8 > 519.8                         | 6.720 | 6.720  | 0.0    | 1.000  | 1086377  | 50.4         |               | 101  | 6737 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 562.8 > 518.6                         | 6.720 | 6.720  | 0.0    | 1.000  | 951152   | 49.4         |               | 98.8 | 3665 |       |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |      |      |       |
| 505.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 250535   | 51.0         |               | 102  | 996  |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |               |      |      |       |
| 497.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 228405   | 53.1         |               | 106  | 1784 |       |
| D 37 13C2 PFDoA                       |       |        |        |        |          |              |               |      |      |       |
| 614.8 > 569.6                         | 7.407 | 7.402  | 0.005  | 1.000  | 1248885  | 52.9         |               | 106  | 4318 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 612.8 > 568.6                         | 7.407 | 7.407  | 0.0    | 1.000  | 1061326  | 49.1         |               | 98.3 | 2208 |       |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |      |      |       |
| 662.8 > 618.6                         | 8.021 | 8.021  | 0.0    | 0.937  | 1154802  | 52.1         |               | 104  | 1721 |       |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A12.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.560 | 8.563     | -0.003    | 1.000     | 1189685  | 51.8            |                 | 104  | 1178 |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      |       |
| 712.8 > 668.6                  | 8.560 | 8.570     | -0.010    | 1.000     | 1167175  | 50.2            |                 | 100  | 1382 |       |
| 712.8 > 168.8                  | 8.575 | 8.570     | 0.005     | 1.002     | 260697   |                 | 4.48(0.00-0.00) | 100  | 413  |       |
| 712.8 > 218.8                  | 8.575 | 8.570     | 0.005     | 1.002     | 131713   |                 | 8.86(0.00-0.00) | 100  | 176  |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L5\_00003

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A12.d

Injection Date: 12-Oct-2018 19:04:18

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

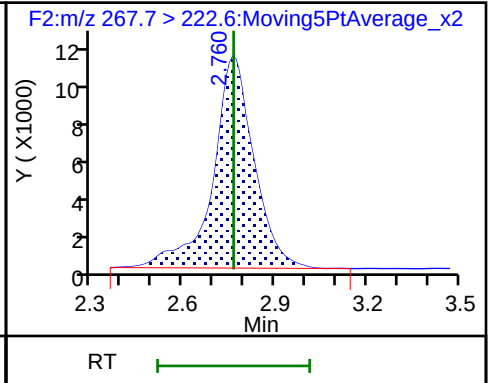
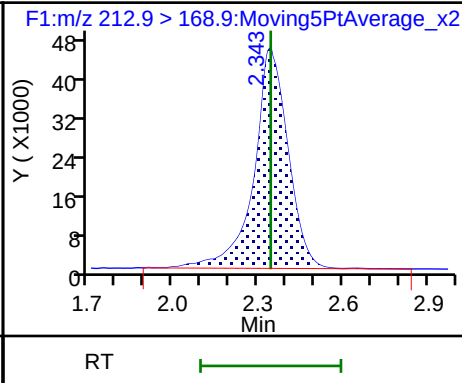
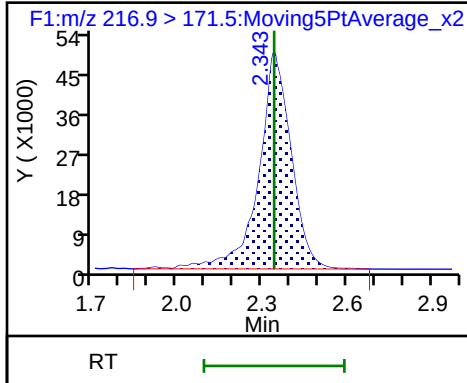
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid

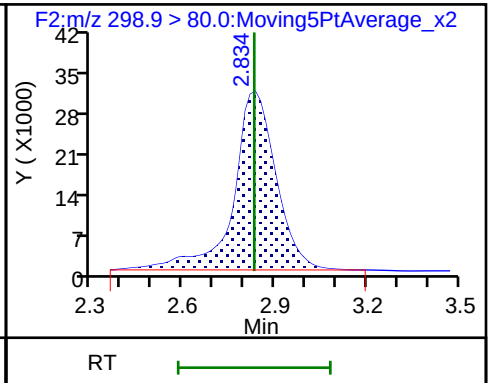
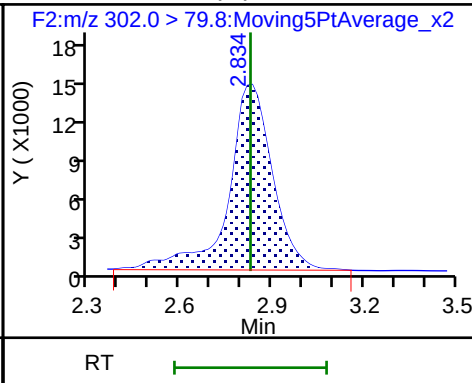
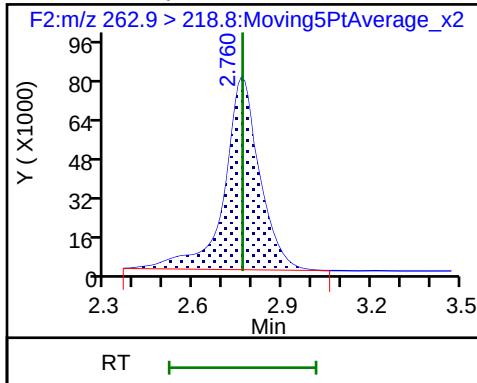
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 6 13C3 PFBS (M)

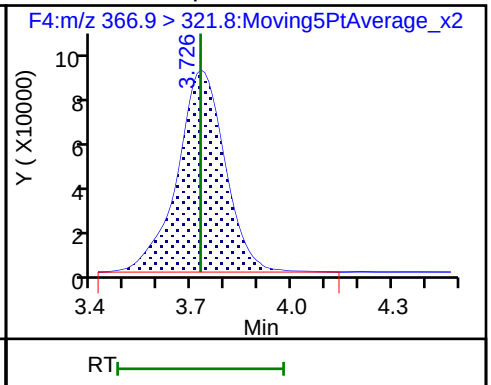
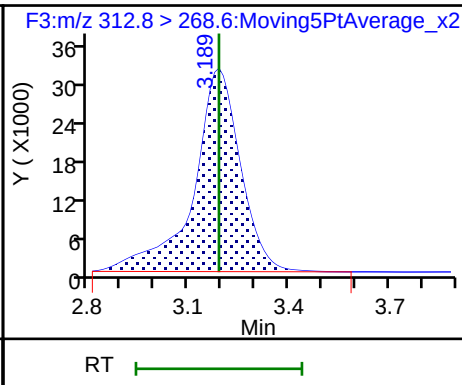
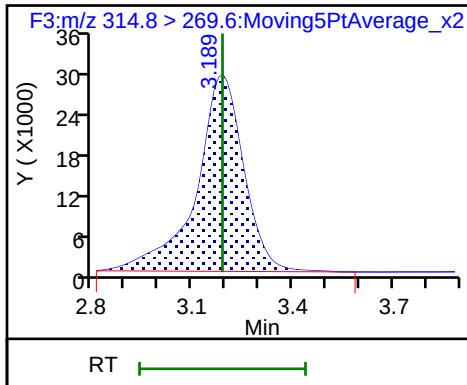
5 Perfluorobutanesulfonic acid



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

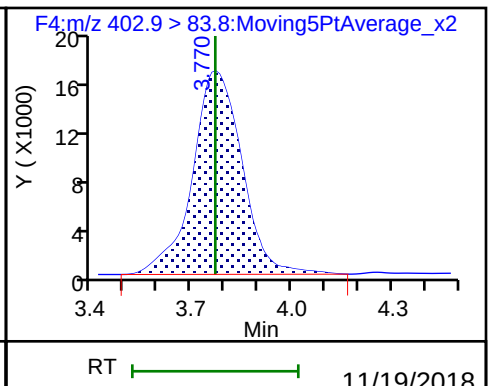
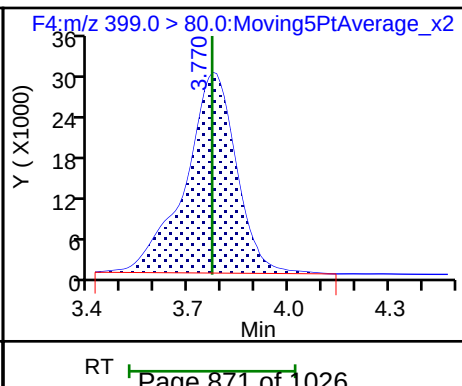
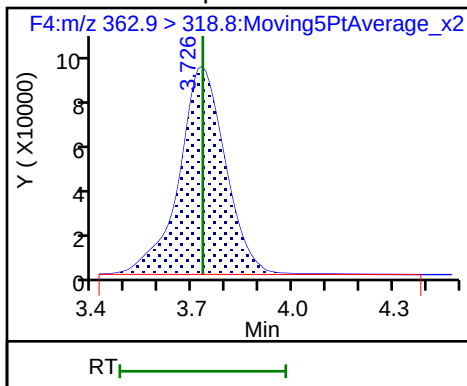
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

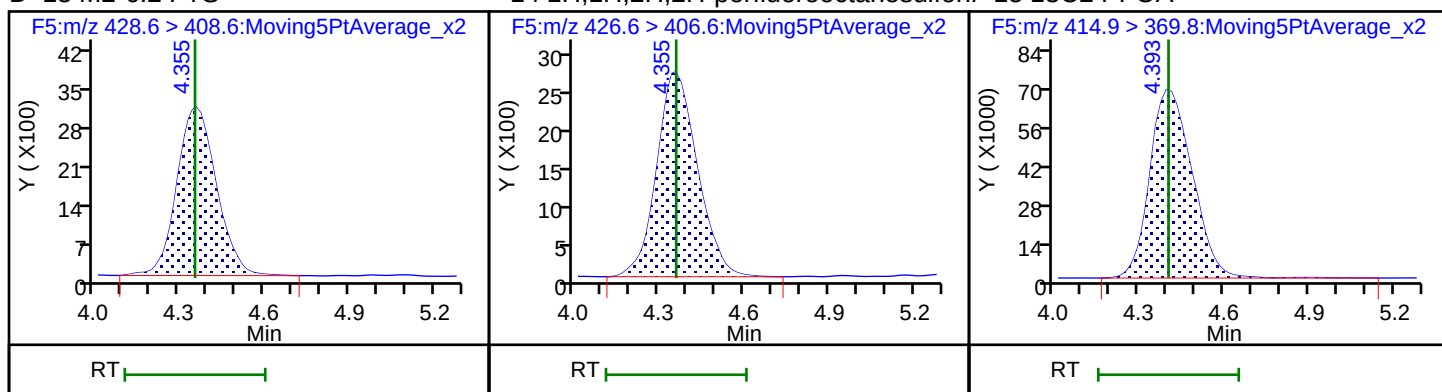
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

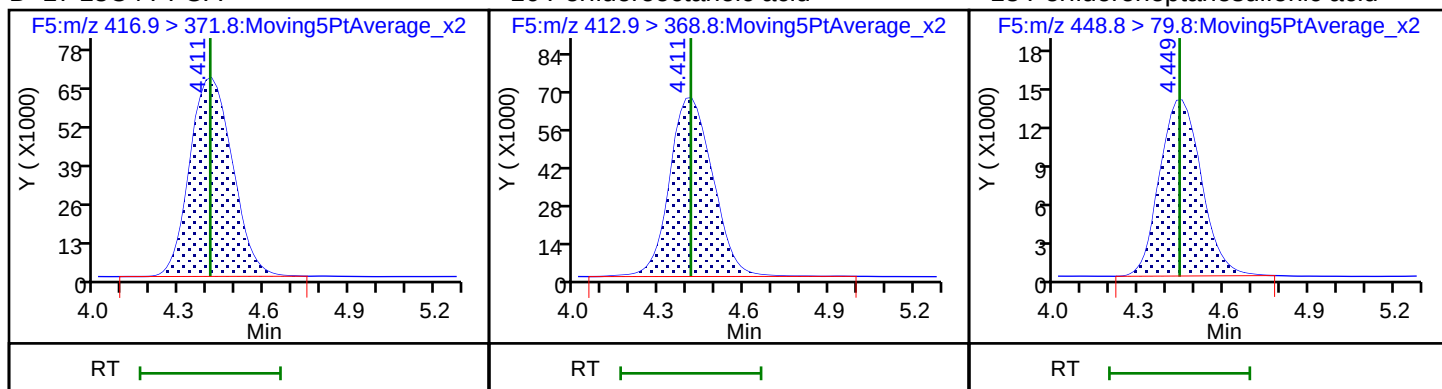
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

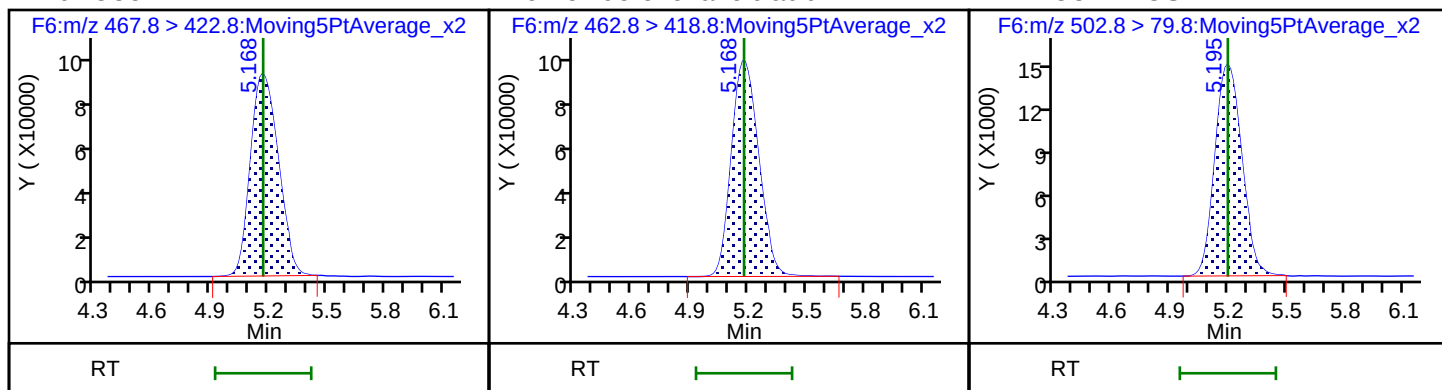
18 Perfluoroheptanesulfonic acid



D 20 13C5 PFNA

19 Perfluorononanoic acid

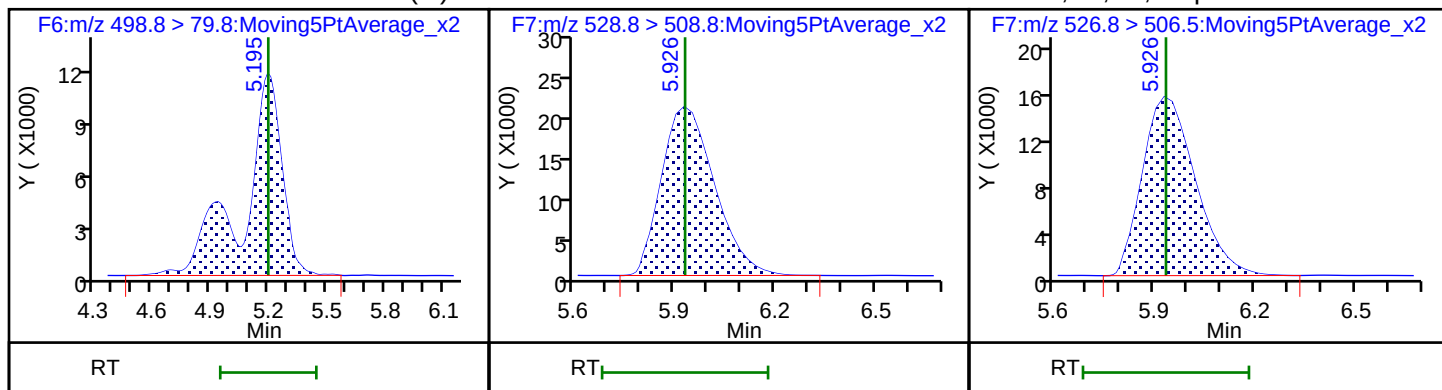
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

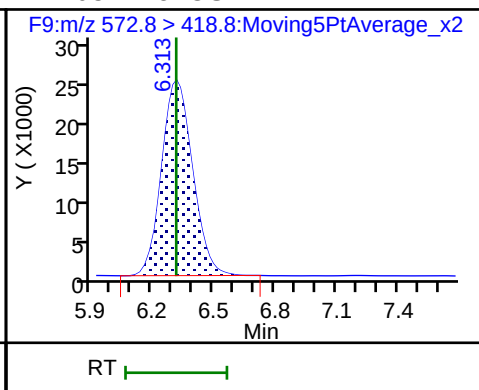
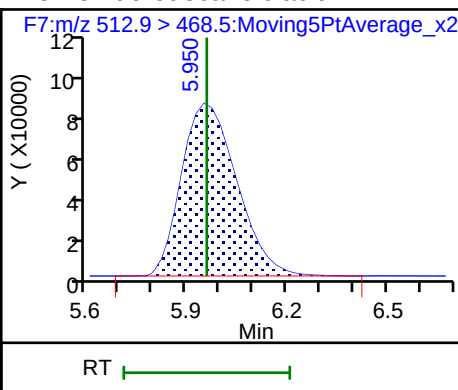
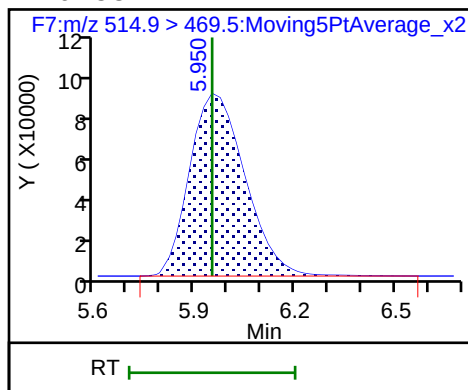
23 1H,1H,2H,2H-perfluorodecanesulfonate



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

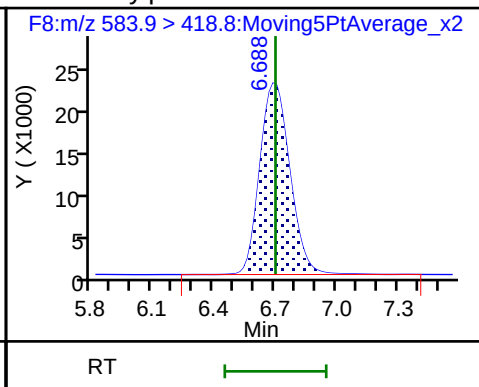
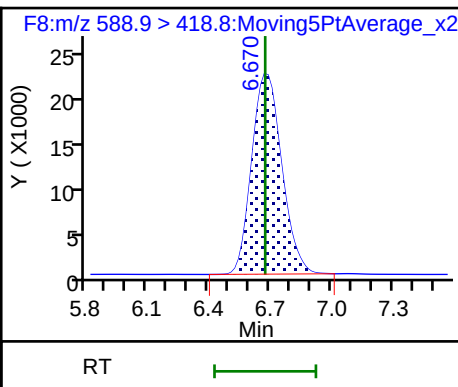
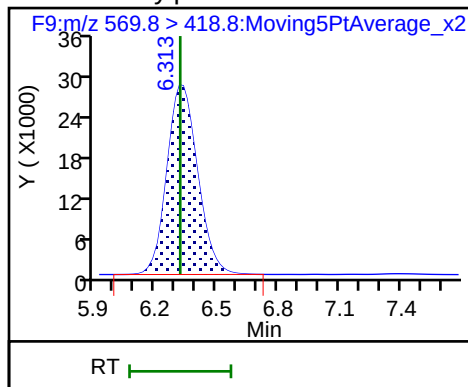
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamid

## D 29 d5-NEtFOSAA

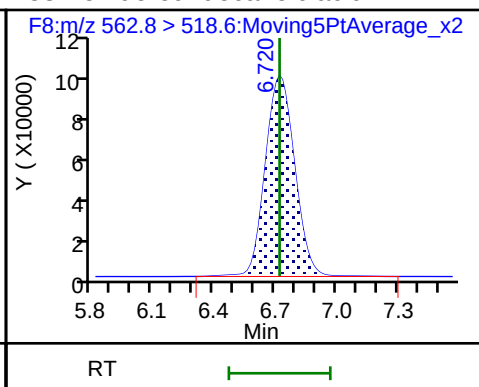
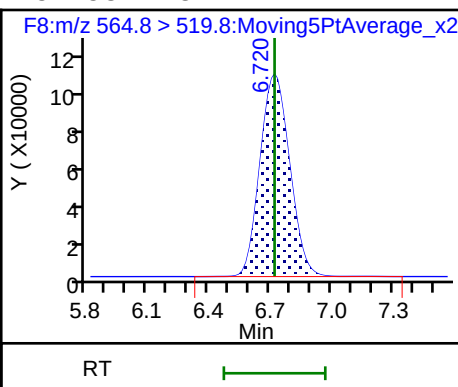
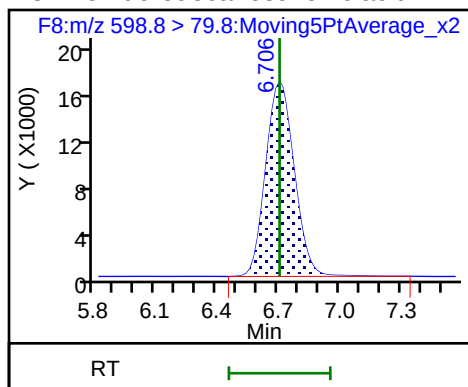
## 30 N-ethylperfluorooctanesulfonamid



## 31 Perfluorodecanesulfonic acid

## D 32 13C2 PFUnA

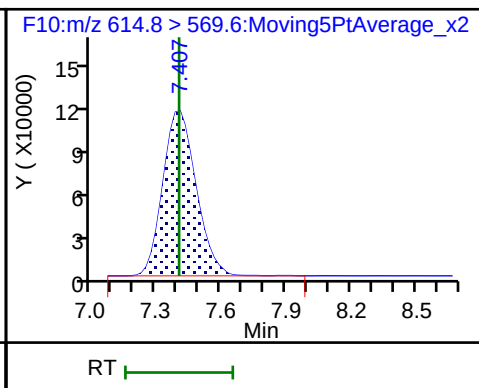
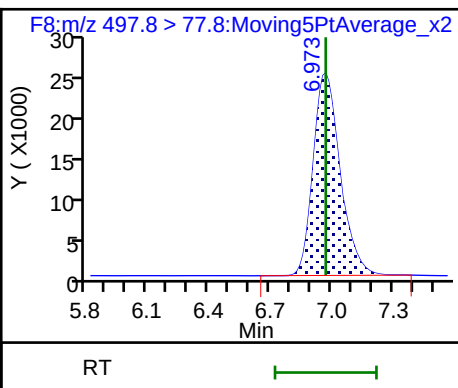
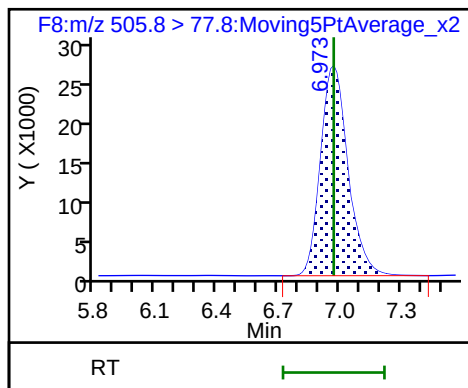
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

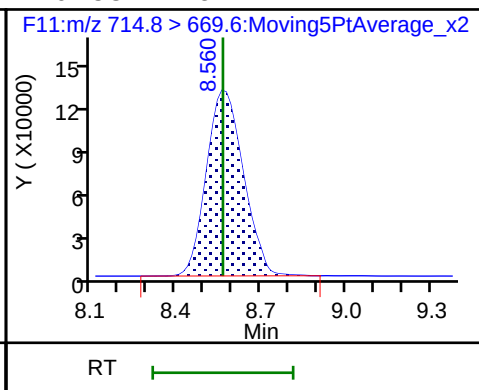
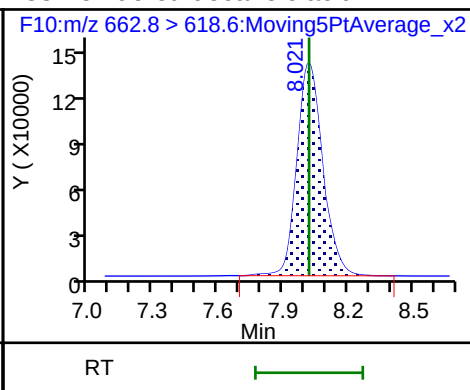
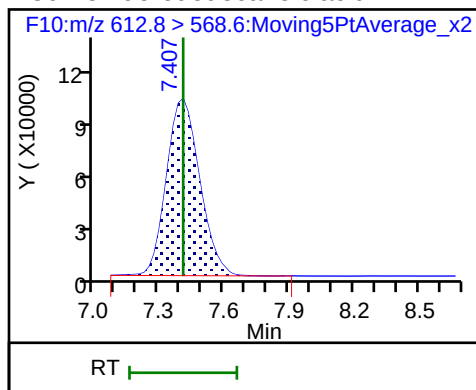
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

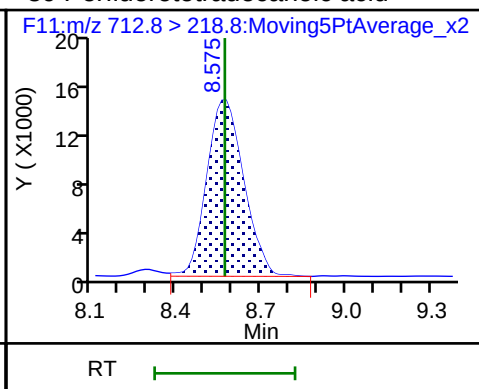
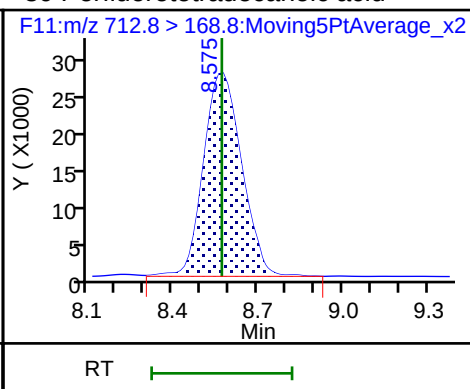
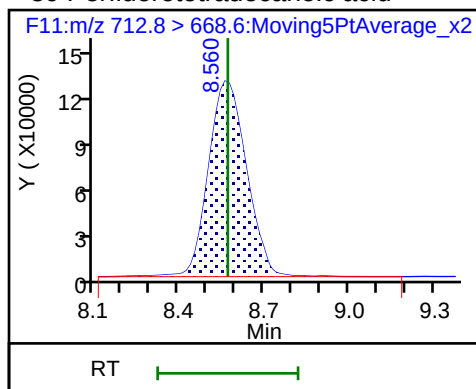
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

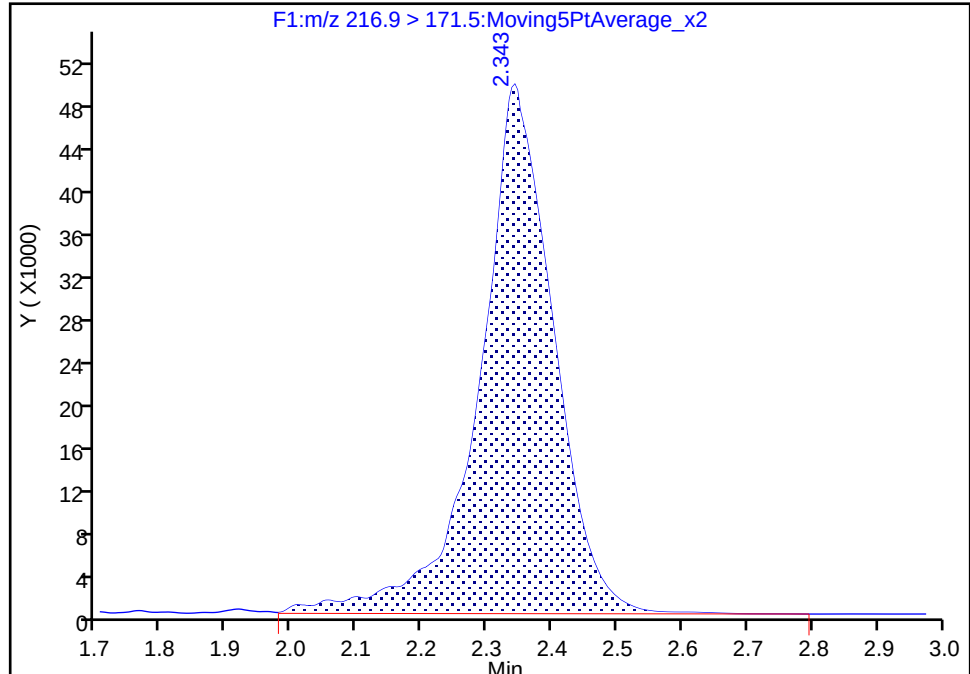
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A12.d  
Injection Date: 12-Oct-2018 19:04:18 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**D 1 13C4 PFBA, CAS: STL00992**

Signal: 1

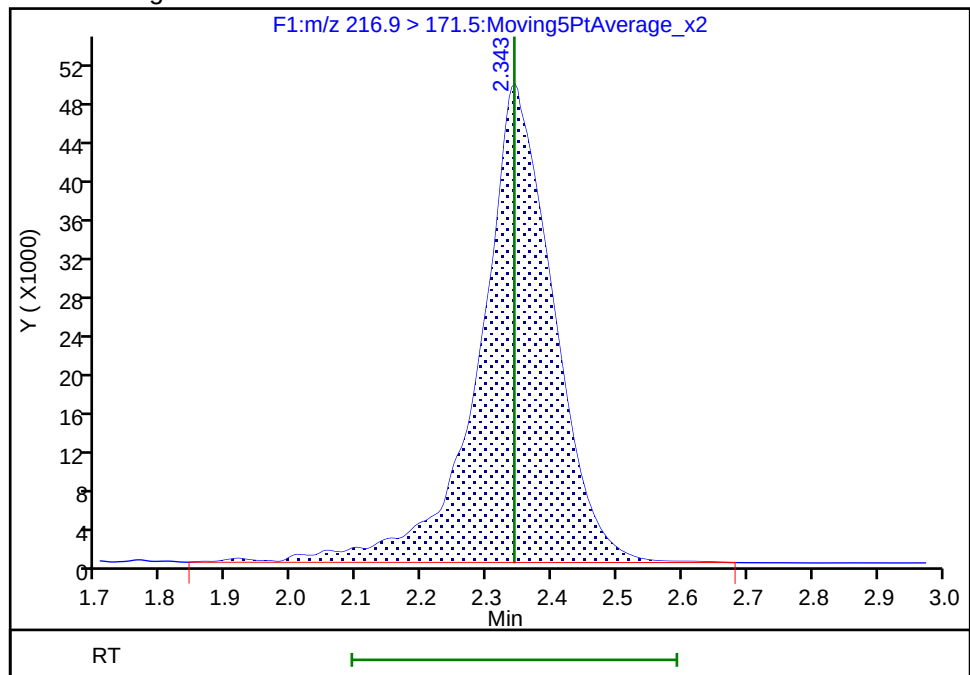
RT: 2.34  
Area: 395145  
Amount: 51.205900  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.34  
Area: 395747  
Amount: 50.659280  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:46:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

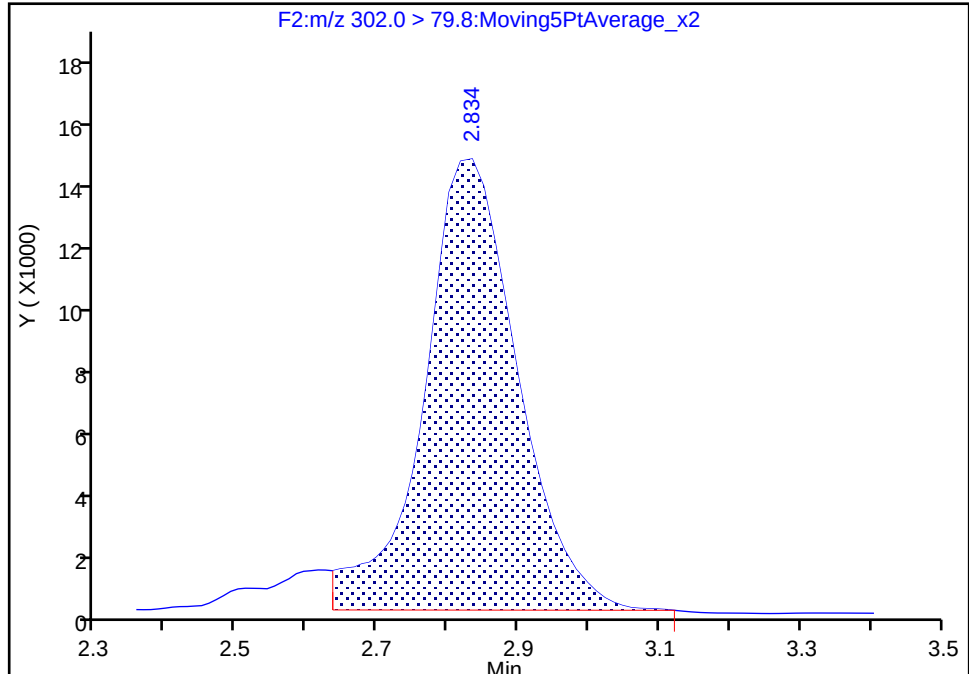
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A12.d  
Injection Date: 12-Oct-2018 19:04:18 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

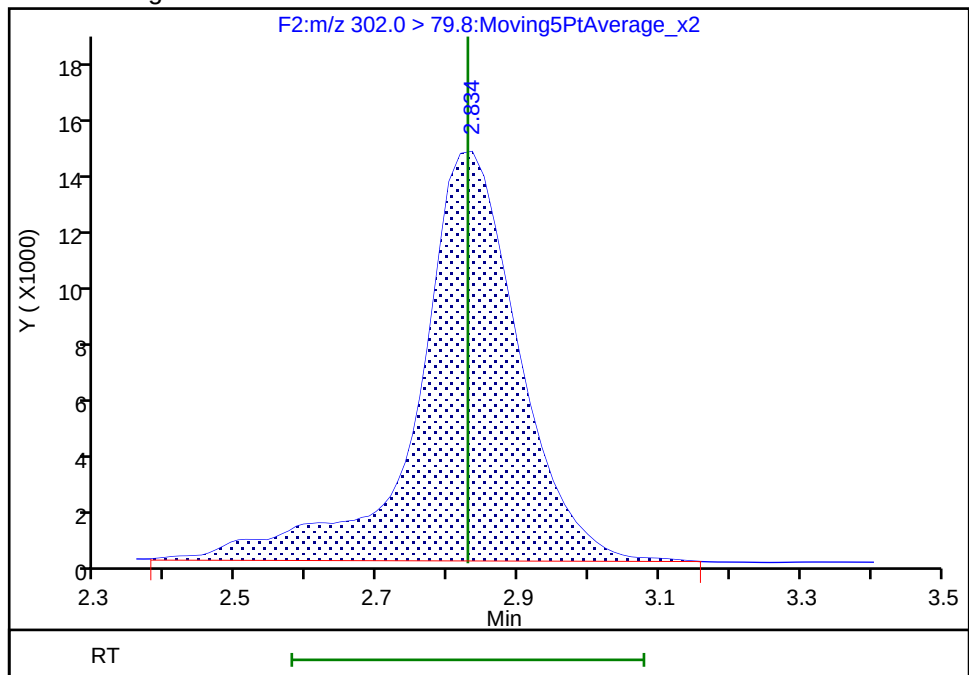
RT: 2.83  
Area: 136264  
Amount: 50.157766  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.83  
Area: 148157  
Amount: 54.036621  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:46:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

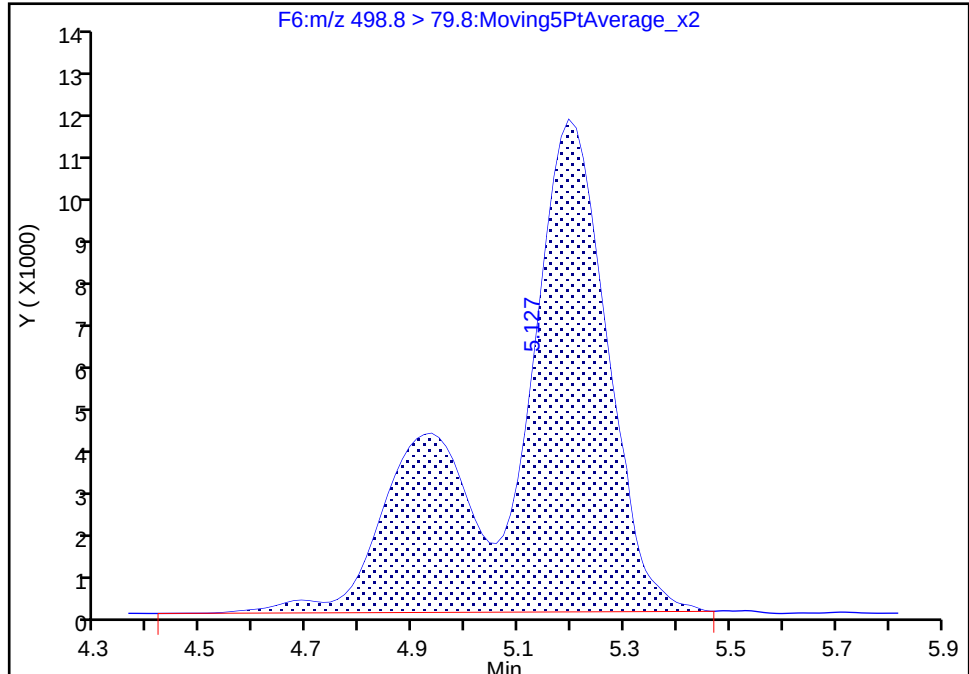
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Injection Date: 12-Oct-2018 19:04:18 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

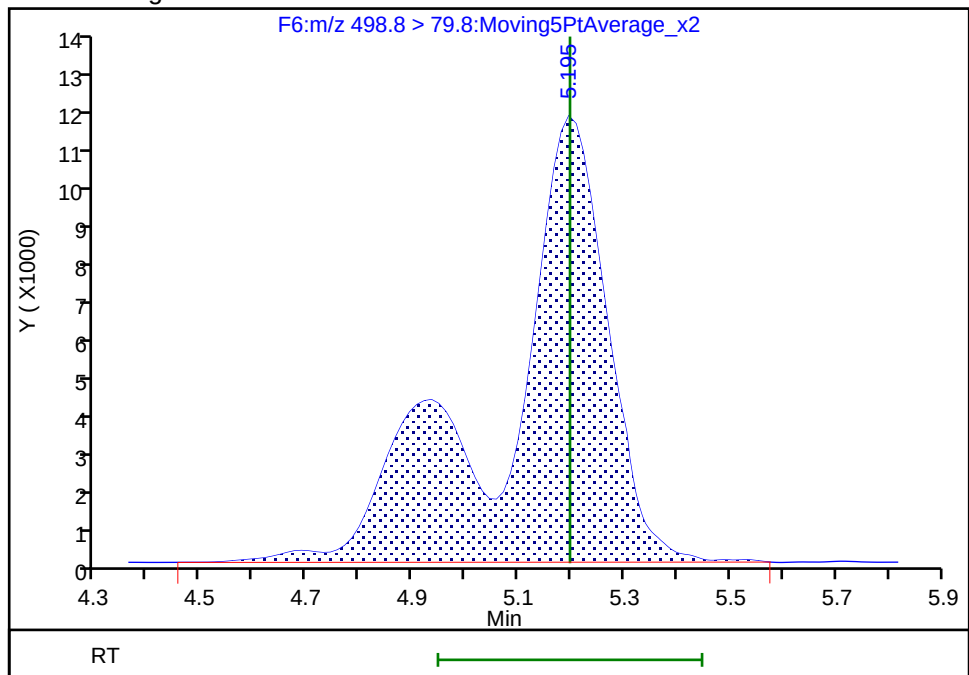
RT: 5.13  
Area: 155480  
Amount: 51.122825  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.19  
Area: 157043  
Amount: 51.551305  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:46:17  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A13.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 12-Oct-2018 19:20:08 ALS Bottle#: 0 Worklist Smp#: 13  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-013 IC 8  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:23:51 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 12-Oct-2018 21:47:43

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |        |        |        |          |              |               |      |      | M     |
| 216.9 > 171.5                         | 2.347 | 2.342  | 0.005  | 1.000  | 376989   | 49.7         |               | 99.5 | 1242 | M     |
| 2 Perfluorobutanoic acid              |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                         | 2.343 | 2.344  | -0.001 | 0.998  | 777358   | 107.6        |               | 108  | 492  | M     |
| D 3 13C5 PFPeA                        |       |        |        |        |          |              |               |      |      | M     |
| 267.7 > 222.6                         | 2.770 | 2.762  | 0.008  | 1.000  | 82821    | 45.6         |               | 91.1 | 618  | M     |
| 4 Perfluoropentanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 262.9 > 218.8                         | 2.770 | 2.763  | 0.007  | 1.000  | 1212879  | 108.1        |               | 108  | 2218 |       |
| D 6 13C3 PFBS                         |       |        |        |        |          |              |               |      |      | M     |
| 302.0 > 79.8                          | 2.834 | 2.829  | 0.005  | 1.000  | 116014   | 43.6         |               | 93.8 | 635  | M     |
| 5 Perfluorobutanesulfonic acid        |       |        |        |        |          |              |               |      |      |       |
| 298.9 > 80.0                          | 2.834 | 2.830  | 0.004  | 1.000  | 541095   | 106.7        |               | 107  | 1714 |       |
| D 7 13C2 PFHxA                        |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                         | 3.189 | 3.188  | 0.001  | 1.000  | 253094   | 45.7         |               | 91.4 | 1408 |       |
| 8 Perfluorohexanoic acid              |       |        |        |        |          |              |               |      |      |       |
| 312.8 > 268.6                         | 3.189 | 3.189  | 0.0    | 1.000  | 545829   | 101.5        |               | 101  | 2863 |       |
| D 9 13C4 PFHpA                        |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                         | 3.726 | 3.725  | 0.001  | 1.000  | 796857   | 49.1         |               | 98.3 | 1098 |       |
| 10 Perfluoroheptanoic acid            |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                         | 3.726 | 3.728  | -0.002 | 1.000  | 1661004  | 103.7        |               | 104  | 9625 |       |
| 12 Perfluorohexanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 399.0 > 80.0                          | 3.770 | 3.769  | 0.001  | 1.000  | 581843   | 102.2        |               | 102  | 2593 |       |
| D 11 18O2 PFHxS                       |       |        |        |        |          |              |               |      |      | M     |
| 402.9 > 83.8                          | 3.770 | 3.769  | 0.001  | 1.000  | 144285   | 45.0         |               | 95.1 | 746  | M     |
| D 13 M2-6:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                         | 4.342 | 4.353  | -0.011 | 1.000  | 27181    | 46.4         |               | 97.8 | 192  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 426.6 > 406.6                         | 4.342 | 4.357  | -0.015 | 1.000  | 54891    | 92.8         |               | 92.8 | 442  |       |

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N   | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|-------|-------|
| * 15 13C2 PFOA                        |       |           |           |           |          |                 |               |      |       |       |
| 414.9 > 369.8                         | 4.393 | 4.401     | -0.008    |           | 702943   | 50.0            |               |      | 2288  |       |
| D 17 13C4 PFOA                        |       |           |           |           |          |                 |               |      |       |       |
| 416.9 > 371.8                         | 4.411 | 4.407     | 0.004     | 1.000     | 620972   | 47.7            |               | 95.4 | 1511  |       |
| 16 Perfluorooctanoic acid             |       |           |           |           |          |                 |               |      |       |       |
| 412.9 > 368.8                         | 4.411 | 4.409     | 0.002     | 1.000     | 1380218  | 106.2           |               | 106  | 2193  |       |
| 18 Perfluoroheptanesulfonic acid      |       |           |           |           |          |                 |               |      |       |       |
| 448.8 > 79.8                          | 4.449 | 4.441     | 0.008     | 0.856     | 241637   | 106.0           |               | 106  | 997   |       |
| D 20 13C5 PFNA                        |       |           |           |           |          |                 |               |      |       |       |
| 467.8 > 422.8                         | 5.168 | 5.171     | -0.003    | 1.000     | 833954   | 50.1            |               | 100  | 1704  |       |
| 19 Perfluorononanoic acid             |       |           |           |           |          |                 |               |      |       |       |
| 462.8 > 418.8                         | 5.181 | 5.175     | 0.006     | 1.003     | 1792069  | 101.0           |               | 101  | 44384 |       |
| D 22 13C4 PFOS                        |       |           |           |           |          |                 |               |      |       |       |
| 502.8 > 79.8                          | 5.195 | 5.195     | 0.0       | 1.000     | 123911   | 46.1            |               | 96.4 | 681   |       |
| 21 Perfluorooctanesulfonic acid       |       |           |           |           |          |                 |               |      |       |       |
| 498.8 > 79.8                          | 5.195 | 5.197     | -0.002    | 1.000     | 276383   | 103.2           |               | 103  | 499   | M     |
| D 24 M2-8:2 FTS                       |       |           |           |           |          |                 |               |      |       |       |
| 528.8 > 508.8                         | 5.926 | 5.929     | -0.003    | 1.000     | 215575   | 49.0            |               | 102  | 1092  |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |           |           |           |          |                 |               |      |       |       |
| 526.8 > 506.5                         | 5.926 | 5.932     | -0.006    | 1.000     | 370420   | 114.5           |               | 114  | 1122  |       |
| D 26 13C2 PFDA                        |       |           |           |           |          |                 |               |      |       |       |
| 514.9 > 469.5                         | 5.950 | 5.950     | 0.0       | 1.000     | 852349   | 46.7            |               | 93.4 | 3464  |       |
| 25 Perfluorodecanoic acid             |       |           |           |           |          |                 |               |      |       |       |
| 512.9 > 468.5                         | 5.950 | 5.957     | -0.007    | 1.000     | 1758138  | 103.5           |               | 104  | 5033  |       |
| D 27 d3-NMeFOSAA                      |       |           |           |           |          |                 |               |      |       |       |
| 572.8 > 418.8                         | 6.313 | 6.311     | 0.002     | 1.000     | 298306   | 58.0            |               | 116  | 1065  |       |
| 28 N-methylperfluorooctanesulfonamido |       |           |           |           |          |                 |               |      |       |       |
| 569.8 > 418.8                         | 6.313 | 6.316     | -0.003    | 1.000     | 608648   | 96.6            |               | 96.6 | 929   |       |
| D 29 d5-NEtFOSAA                      |       |           |           |           |          |                 |               |      |       |       |
| 588.9 > 418.8                         | 6.670 | 6.674     | -0.004    | 1.000     | 229769   | 51.5            |               | 103  | 904   |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |           |           |           |          |                 |               |      |       |       |
| 583.9 > 418.8                         | 6.688 | 6.699     | -0.011    | 1.003     | 440133   | 97.4            |               | 97.4 | 3207  |       |
| 31 Perfluorodecanesulfonic acid       |       |           |           |           |          |                 |               |      |       |       |
| 598.8 > 79.8                          | 6.706 | 6.706     | 0.0       | 1.291     | 293762   | 99.4            |               | 99.4 | 3003  |       |
| D 32 13C2 PFUnA                       |       |           |           |           |          |                 |               |      |       |       |
| 564.8 > 519.8                         | 6.720 | 6.720     | 0.0       | 1.000     | 1018147  | 48.7            |               | 97.4 | 2944  |       |
| 33 Perfluoroundecanoic acid           |       |           |           |           |          |                 |               |      |       |       |
| 562.8 > 518.6                         | 6.720 | 6.720     | 0.0       | 1.000     | 1709081  | 94.7            |               | 94.7 | 6974  |       |
| D 35 13C8 FOSA                        |       |           |           |           |          |                 |               |      |       |       |
| 505.8 > 77.8                          | 6.973 | 6.973     | 0.0       | 1.000     | 244335   | 51.2            |               | 102  | 1286  | M     |
| 34 Perfluorooctanesulfonamide         |       |           |           |           |          |                 |               |      |       |       |
| 497.8 > 77.8                          | 6.973 | 6.973     | 0.0       | 1.000     | 398176   | 95.0            |               | 95.0 | 3080  | M     |
| D 37 13C2 PFDoA                       |       |           |           |           |          |                 |               |      |       |       |
| 614.8 > 569.6                         | 7.406 | 7.402     | 0.004     | 1.000     | 1217716  | 53.1            |               | 106  | 1825  |       |
| 36 Perfluorododecanoic acid           |       |           |           |           |          |                 |               |      |       |       |
| 612.8 > 568.6                         | 7.406 | 7.407     | -0.001    | 1.000     | 2146001  | 101.9           |               | 102  | 2541  |       |
| 38 Perfluorotridecanoic acid          |       |           |           |           |          |                 |               |      |       |       |
| 662.8 > 618.6                         | 8.012 | 8.021     | -0.009    | 0.936     | 2338174  | 101.1           |               | 101  | 3601  |       |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A13.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.560 | 8.563     | -0.003    | 1.000     | 1241684  | 55.8            |                 | 112  | 1180 |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      |       |
| 712.8 > 668.6                  | 8.560 | 8.568     | -0.008    | 1.000     | 2398753  | 98.8            |                 | 98.8 | 4386 |       |
| 712.8 > 168.8                  | 8.560 | 8.568     | -0.008    | 1.000     | 491652   |                 | 4.88(0.00-0.00) | 98.8 | 555  |       |
| 712.8 > 218.8                  | 8.560 | 8.568     | -0.008    | 1.000     | 258634   |                 | 9.27(0.00-0.00) | 98.8 | 177  |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L5A\_00001

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A13.d

Injection Date: 12-Oct-2018 19:20:08

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 13

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

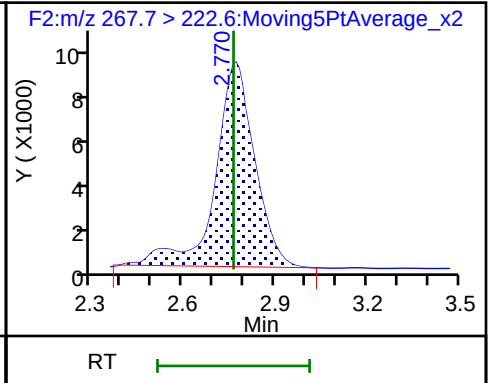
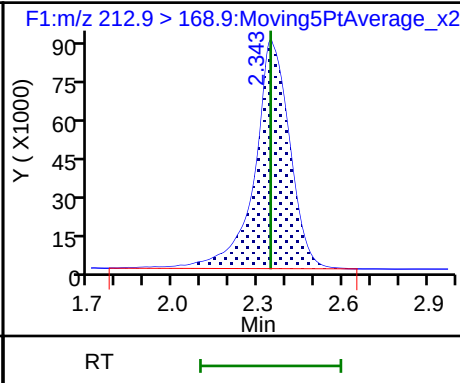
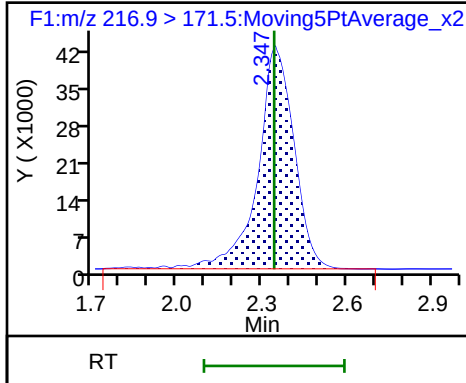
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

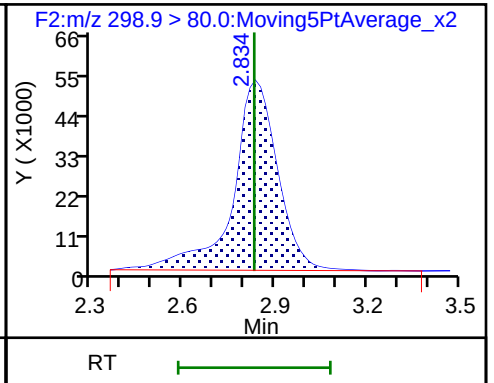
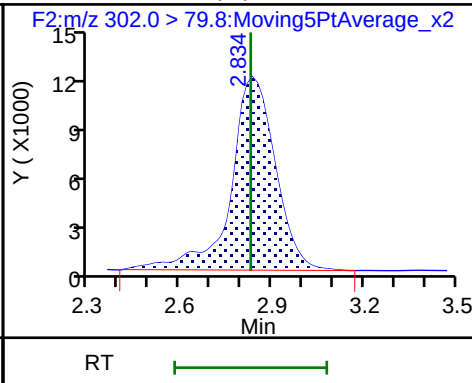
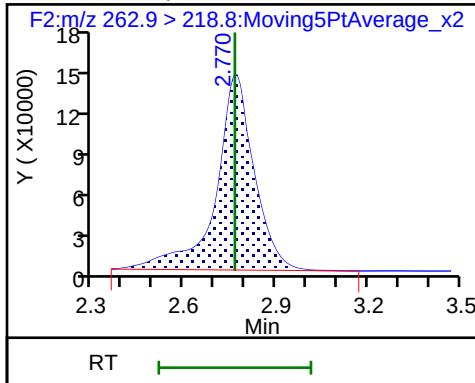
D 3 13C5 PFPeA (M)



4 Perfluoropentanoic acid

D 6 13C3 PFBS (M)

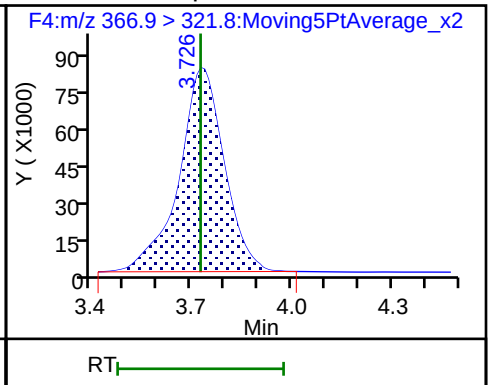
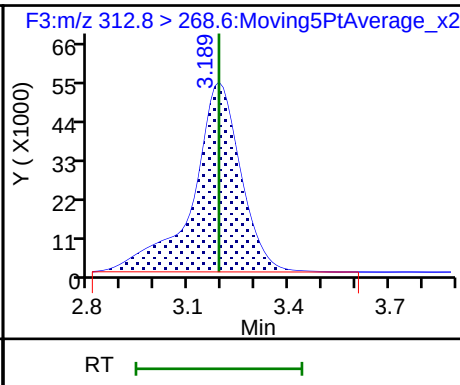
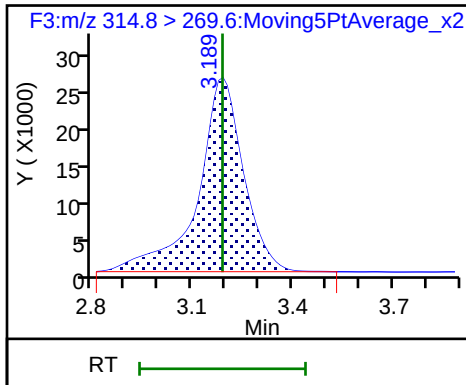
5 Perfluorobutanesulfonic acid



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

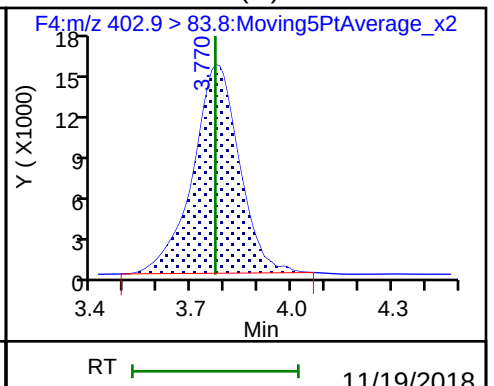
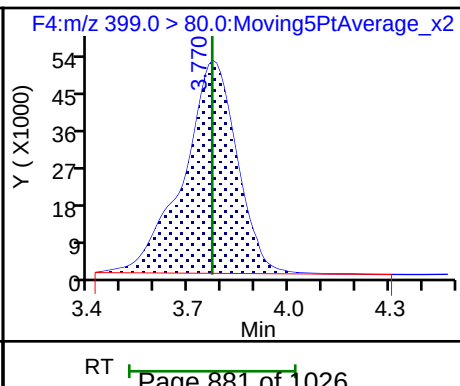
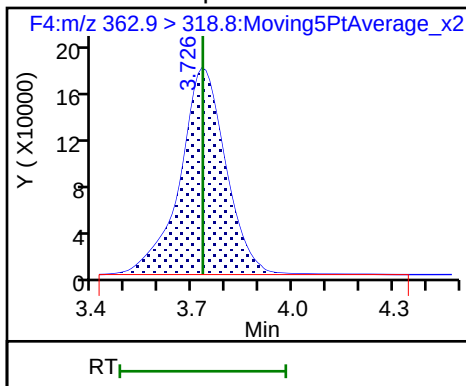
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

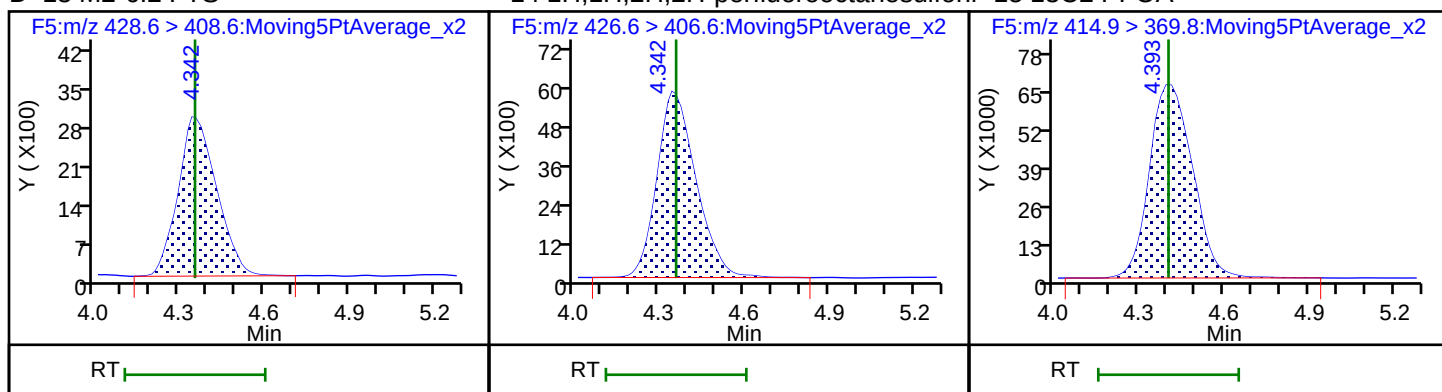
D 11 18O2 PFHxS (M)



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

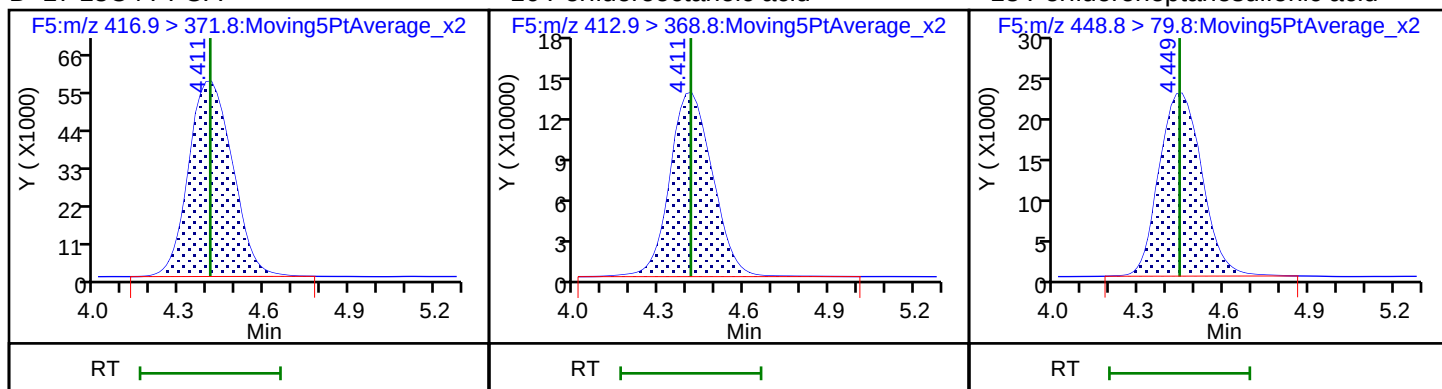
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

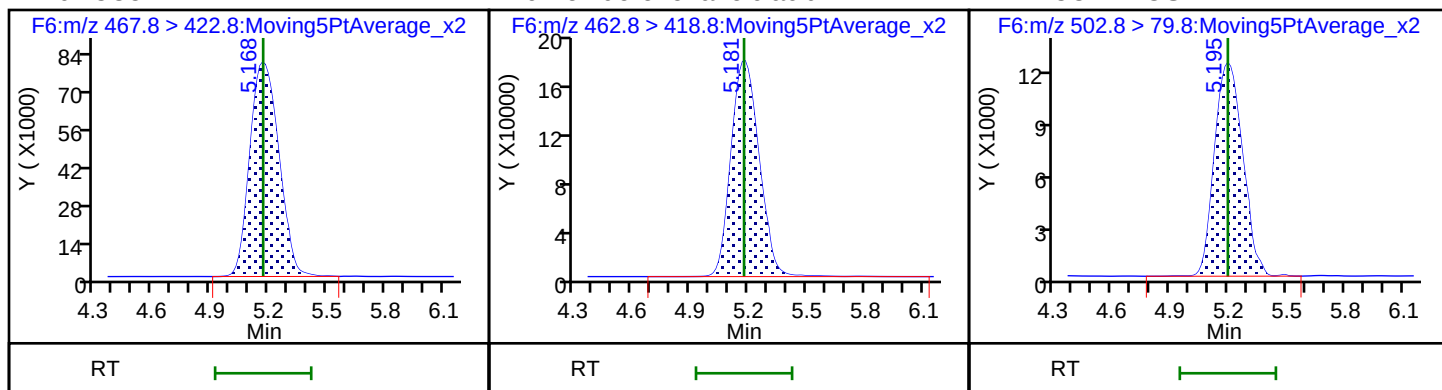
18 Perfluoroheptanesulfonic acid



D 20 13C5 PFNA

19 Perfluorononanoic acid

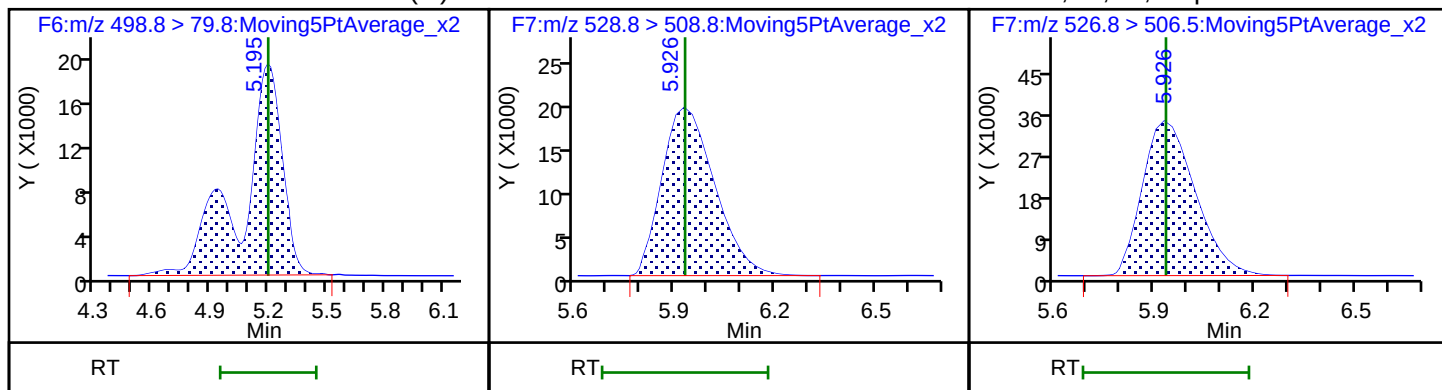
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

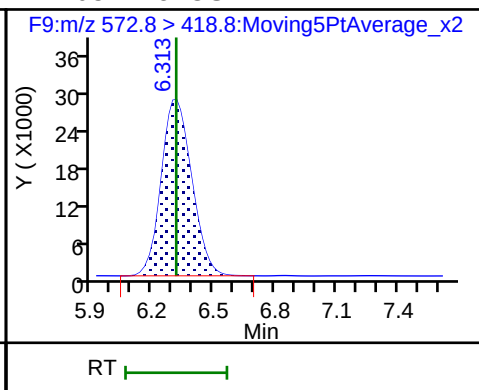
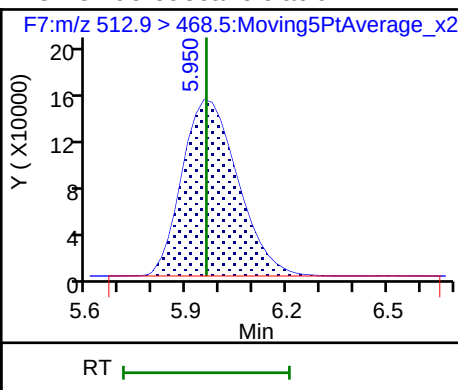
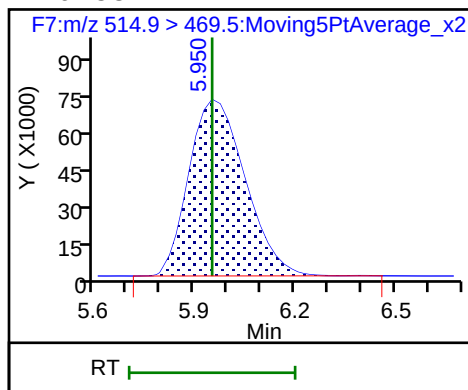
23 1H,1H,2H,2H-perfluorodecanesulfonate



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

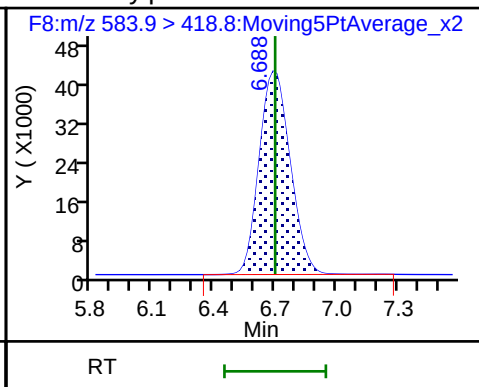
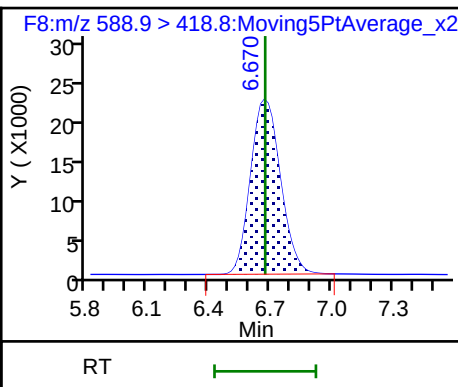
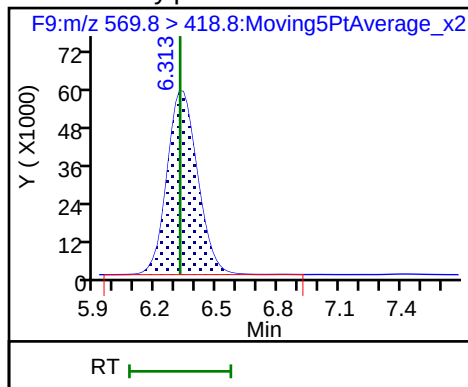
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamid

## D 29 d5-NEtFOSAA

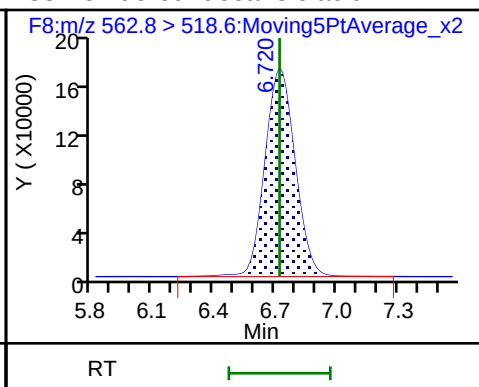
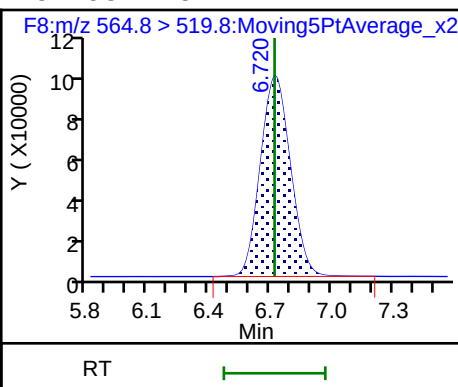
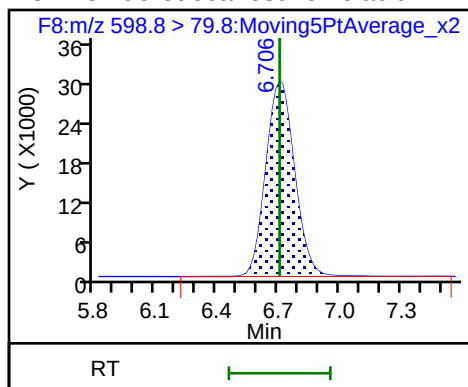
## 30 N-ethylperfluorooctanesulfonamidoa



## 31 Perfluorodecanesulfonic acid

## D 32 13C2 PFUnA

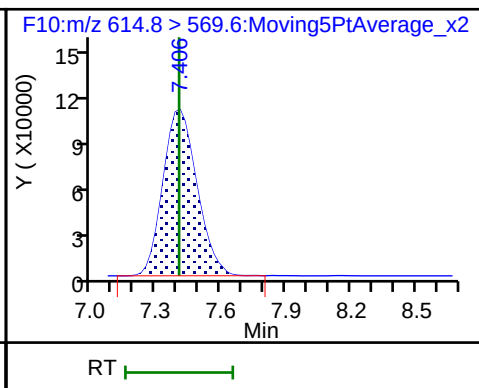
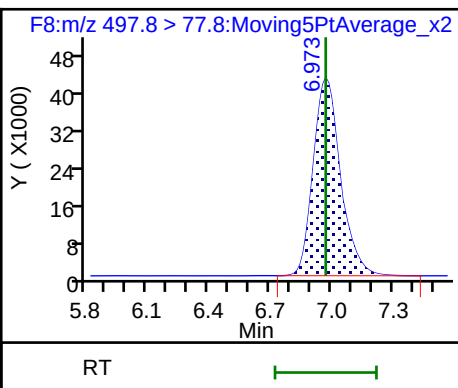
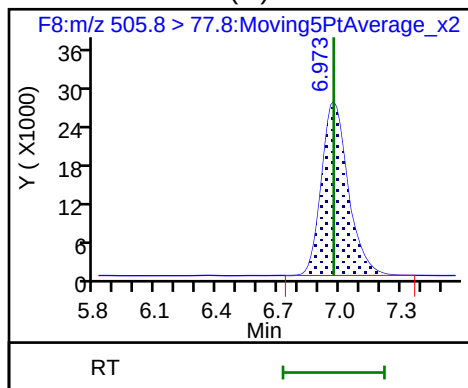
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA (M)

## 34 Perfluorooctanesulfonamide

## D 37 13C2 PFDaA

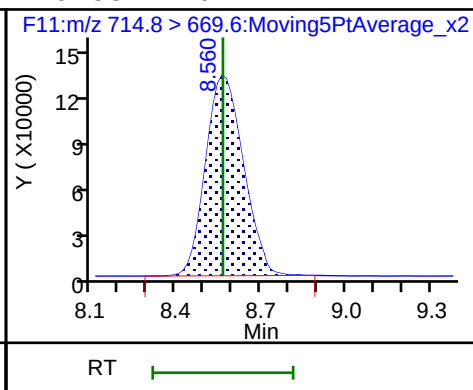
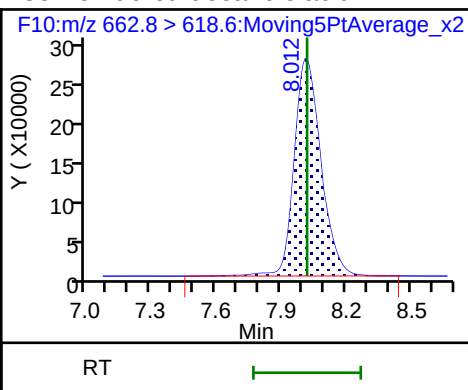
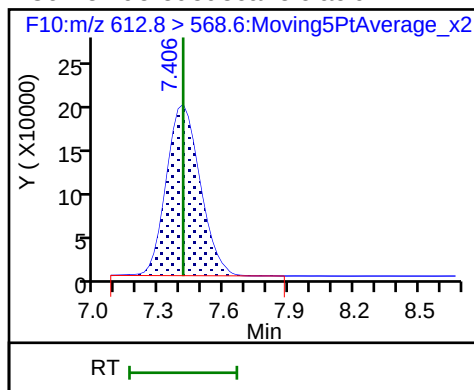




## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

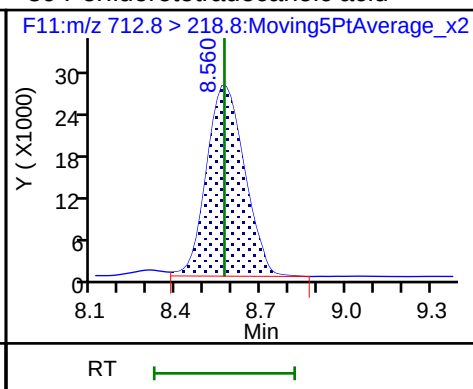
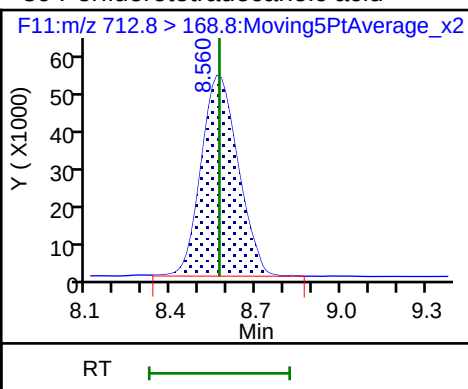
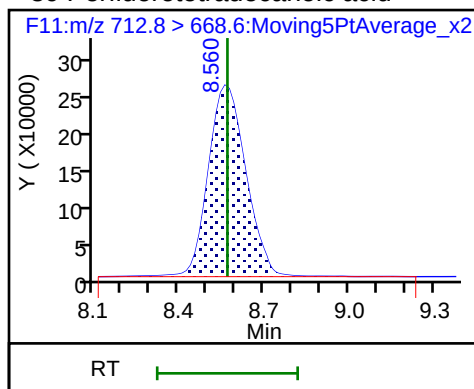
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

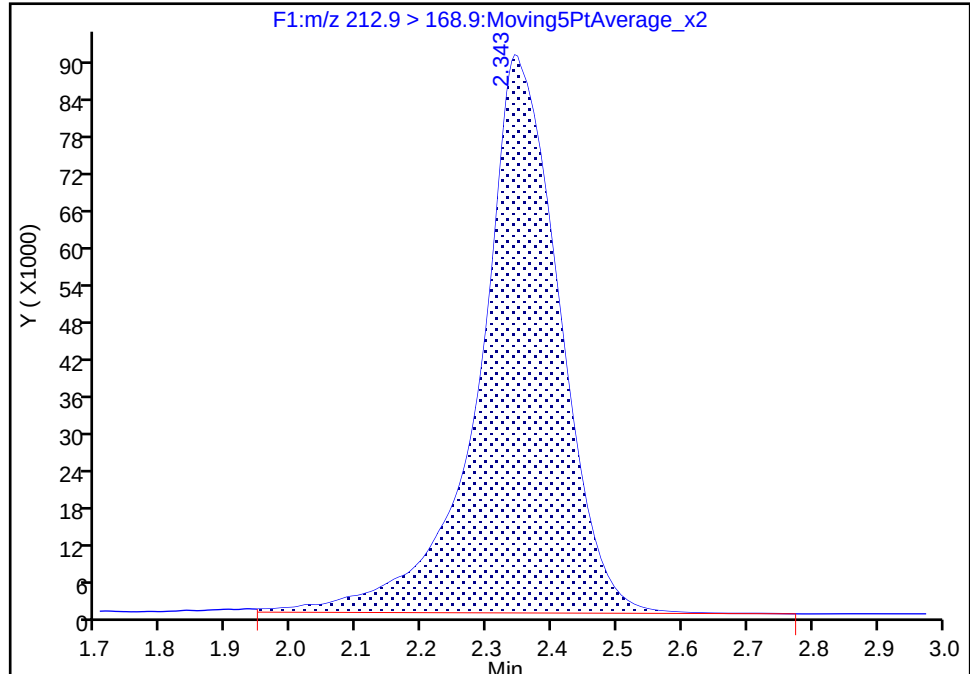
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Injection Date: 12-Oct-2018 19:20:08 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 13  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

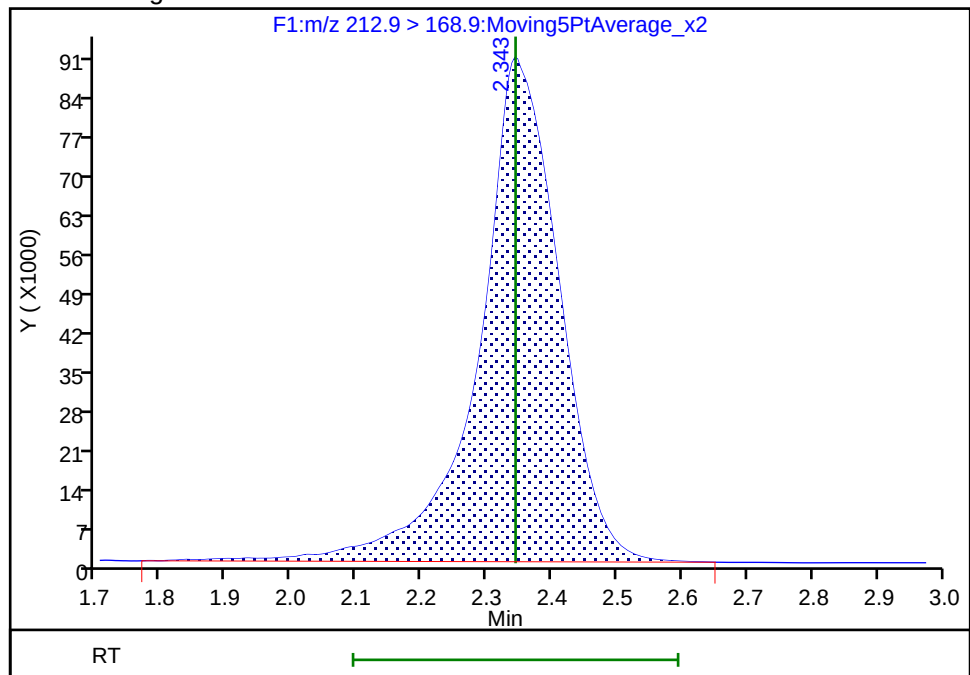
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Area: 776445  
Amount: 103.7393  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.34  
Area: 777358  
Amount: 107.6111  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:47:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

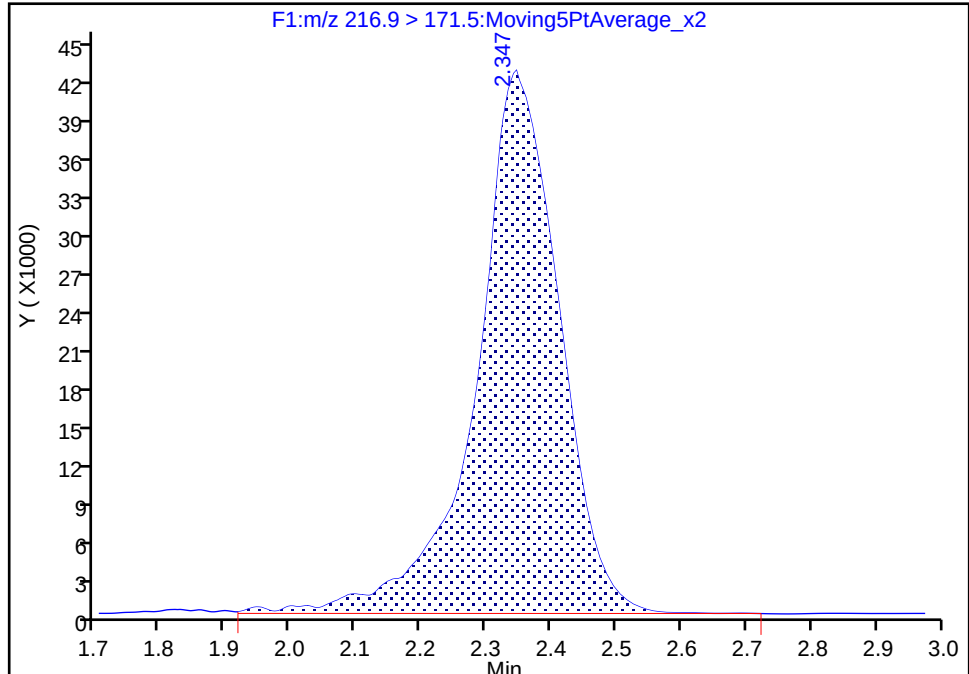
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Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 13  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**D 1 13C4 PFBA, CAS: STL00992**

Signal: 1

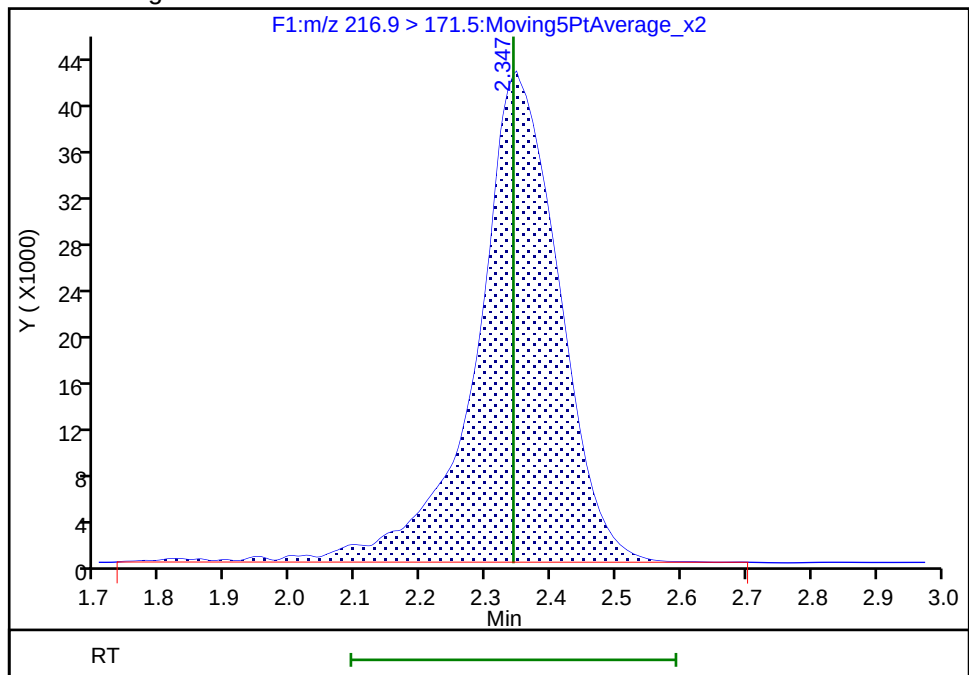
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Area: 376307  
Amount: 50.217484  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.35  
Area: 376989  
Amount: 49.737727  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:47:04  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A13.d

Injection Date: 12-Oct-2018 19:20:08

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 13

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

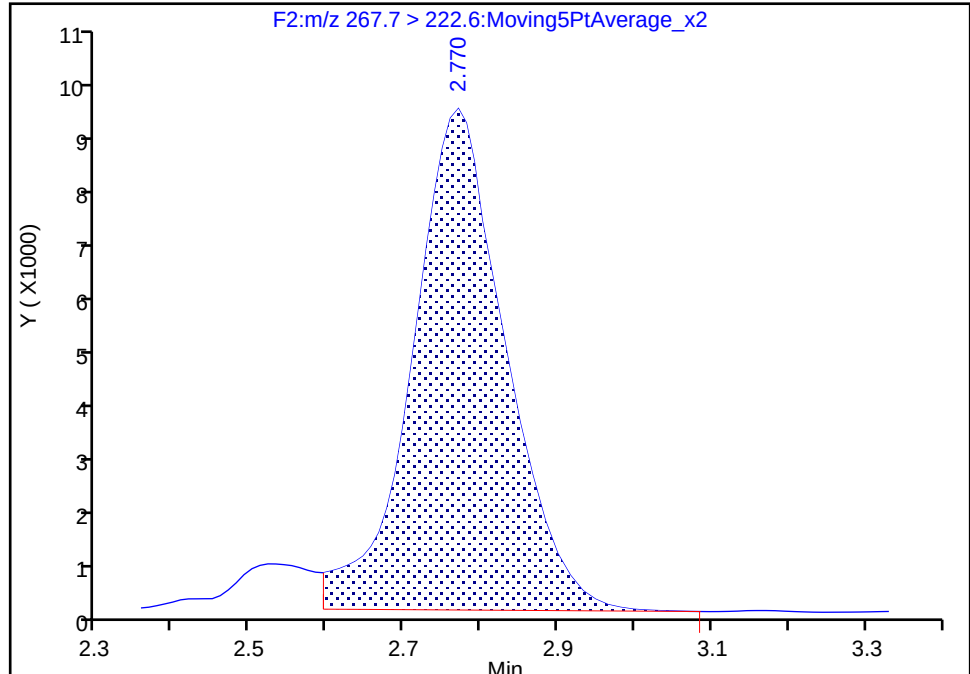
Detector F2:MRM

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

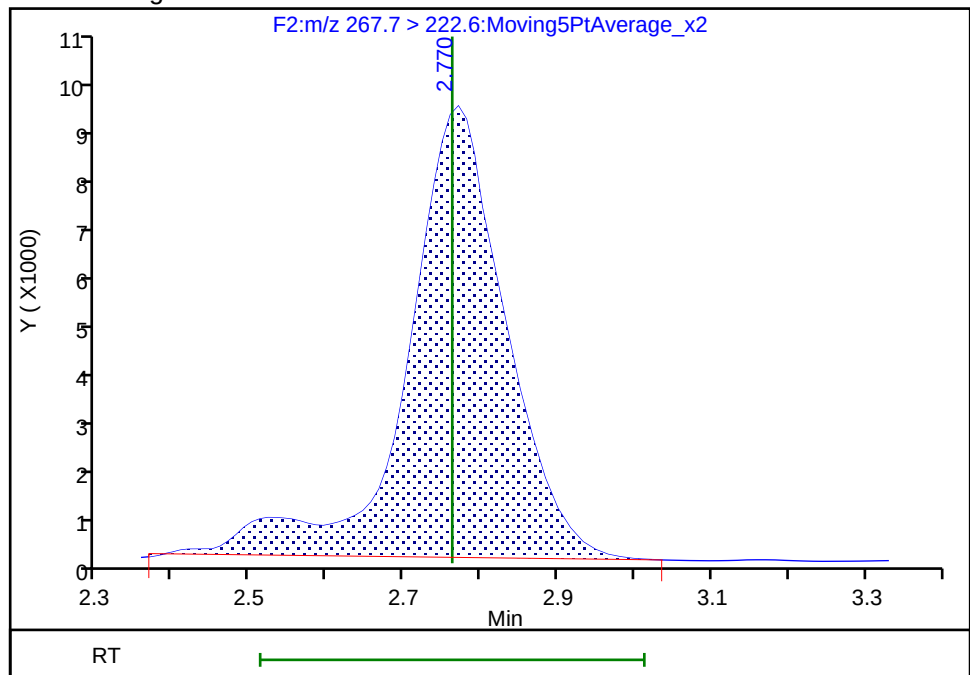
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Area: 78300  
Amount: 43.090223  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.77  
Area: 82821  
Amount: 45.551203  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:47:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

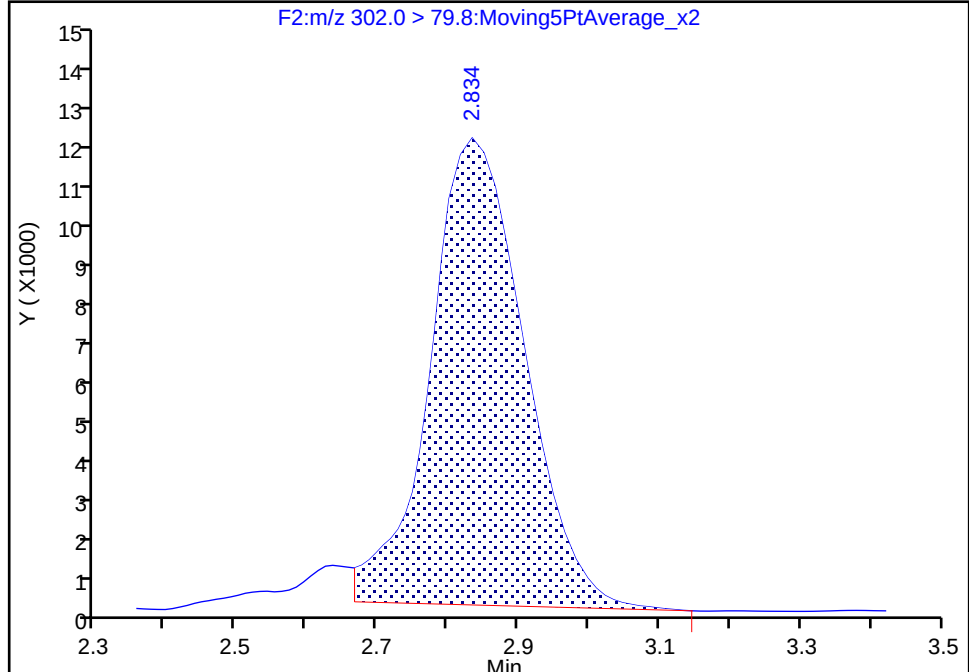
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Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 13  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

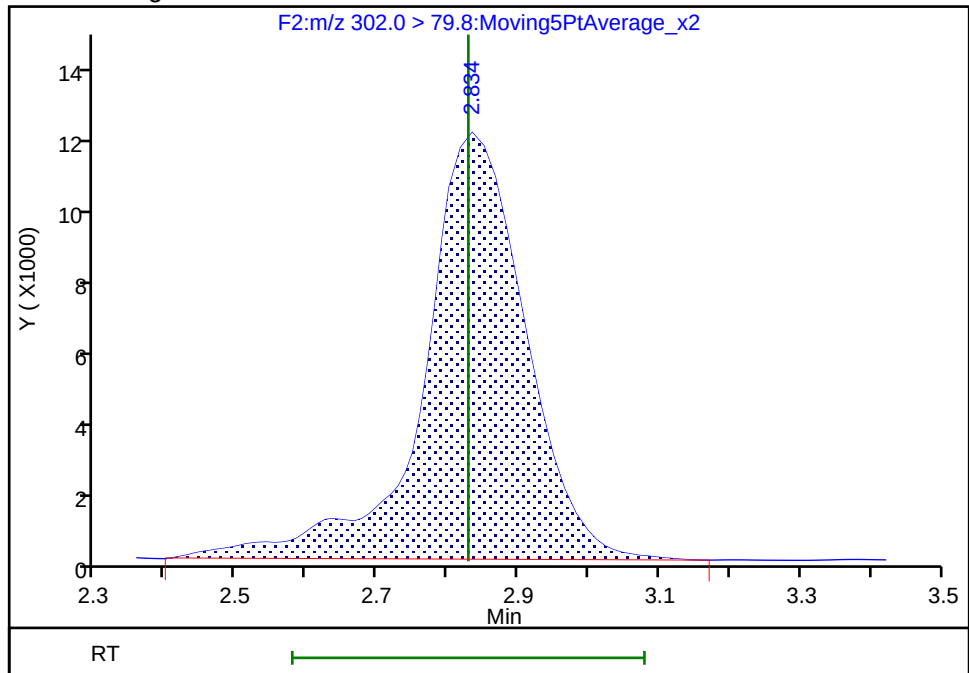
RT: 2.83  
Area: 105553  
Amount: 40.269474  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.83  
Area: 116014  
Amount: 43.610623  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:47:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

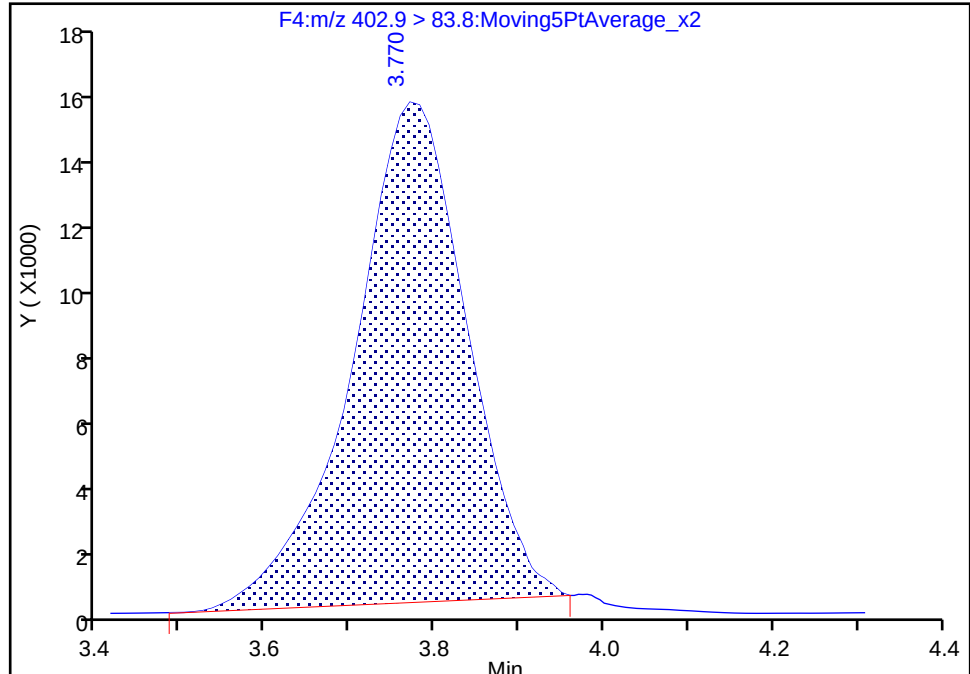
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Injection Date: 12-Oct-2018 19:20:08 Instrument ID: LC410  
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Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 13  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F4:MRM

**D 11 18O2 PFHxS, CAS: STL00994**

Signal: 1

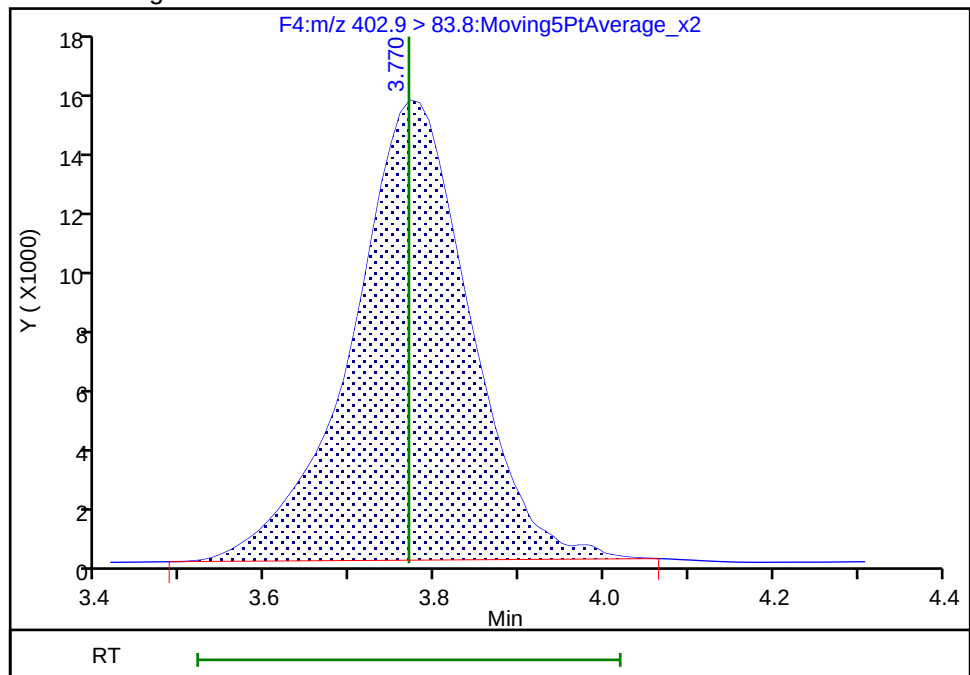
RT: 3.77  
Area: 137384  
Amount: 43.369672  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.77  
Area: 144285  
Amount: 44.991426  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:47:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

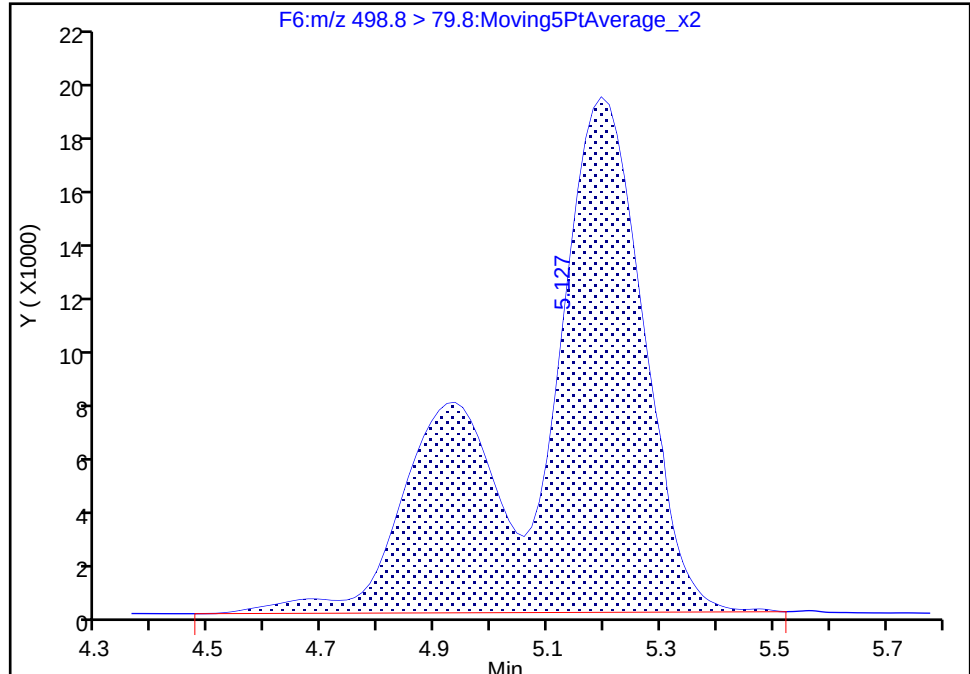
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Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 13  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

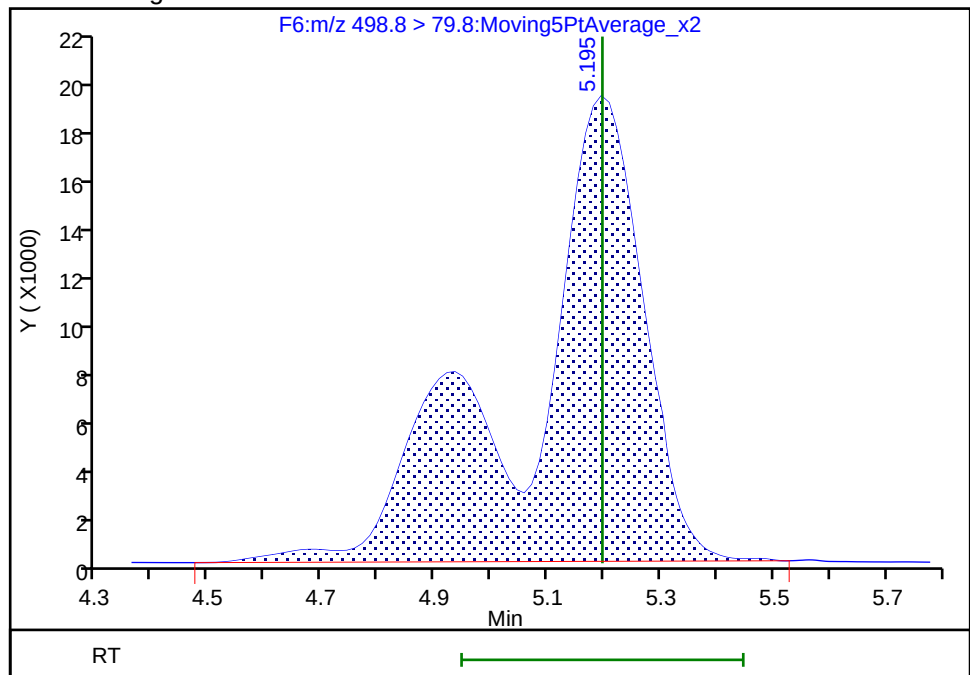
RT: 5.13  
Area: 276496  
Amount: 101.4139  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.20  
Area: 276383  
Amount: 103.2246  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:47:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

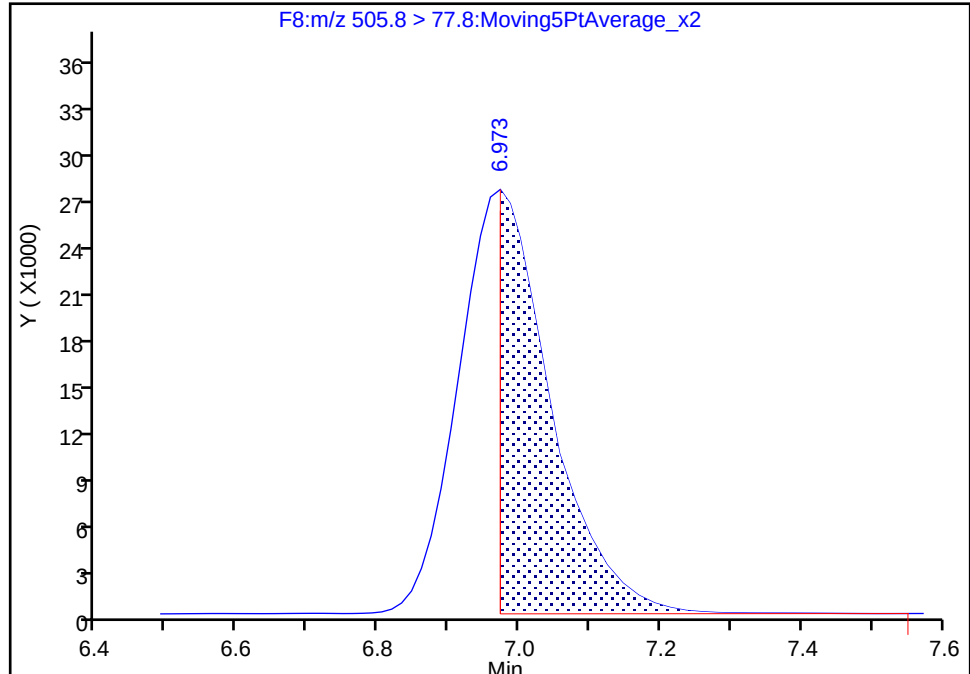
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A13.d  
Injection Date: 12-Oct-2018 19:20:08 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 13  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F8:MRM

**D 35 13C8 FOSA, CAS: STL01056**

Signal: 1

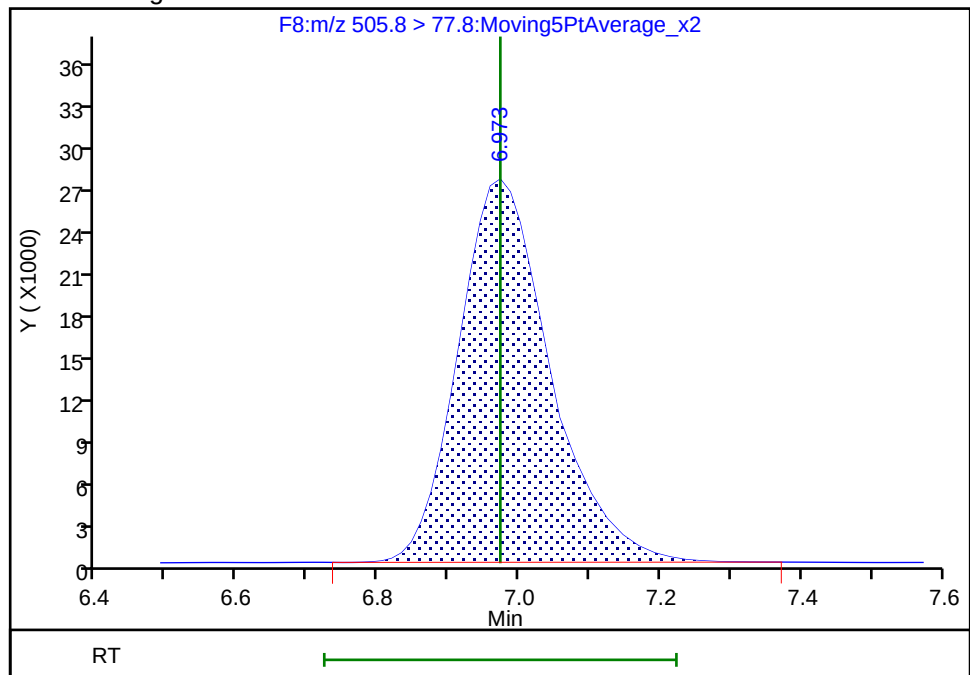
RT: 6.97  
Area: 135380  
Amount: 29.892438  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.97  
Area: 244335  
Amount: 51.233768  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:47:37  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 12-Oct-2018 19:35:58 ALS Bottle#: 0 Worklist Smp#: 14  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-014 IC 9  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:23:54 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 12-Oct-2018 21:48:45

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |        |        |        |          |              |               |      |      |       |
| 216.9 > 171.5                         | 2.343 | 2.343  | 0.0    | 1.000  | 358113   | 54.4         |               | 109  | 264  |       |
| 2 Perfluorobutanoic acid              |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                         | 2.347 | 2.344  | 0.003  | 1.002  | 1465760  | 213.6        |               | 107  | 356  | M     |
| D 3 13C5 PFPeA                        |       |        |        |        |          |              |               |      |      | M     |
| 267.7 > 222.6                         | 2.760 | 2.762  | -0.002 | 1.000  | 75338    | 47.8         |               | 95.5 | 408  | M     |
| 4 Perfluoropentanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 262.9 > 218.8                         | 2.760 | 2.763  | -0.003 | 1.000  | 2213314  | 216.9        |               | 108  | 2465 |       |
| D 6 13C3 PFBS                         |       |        |        |        |          |              |               |      |      | M     |
| 302.0 > 79.8                          | 2.834 | 2.829  | 0.005  | 1.000  | 110871   | 48.0         |               | 103  | 514  | M     |
| 5 Perfluorobutanesulfonic acid        |       |        |        |        |          |              |               |      |      |       |
| 298.9 > 80.0                          | 2.834 | 2.830  | 0.004  | 1.000  | 975188   | 201.2        |               | 101  | 999  |       |
| D 7 13C2 PFHxA                        |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                         | 3.177 | 3.188  | -0.011 | 1.000  | 216239   | 45.0         |               | 90.0 | 955  |       |
| 8 Perfluorohexanoic acid              |       |        |        |        |          |              |               |      |      |       |
| 312.8 > 268.6                         | 3.189 | 3.189  | 0.0    | 1.004  | 939614   | 204.4        |               | 102  | 3605 |       |
| D 9 13C4 PFHpA                        |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                         | 3.715 | 3.725  | -0.010 | 1.000  | 728764   | 51.8         |               | 104  | 1334 |       |
| 10 Perfluoroheptanoic acid            |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                         | 3.726 | 3.728  | -0.002 | 1.003  | 2890882  | 197.4        |               | 98.7 | 2129 |       |
| 12 Perfluorohexanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 399.0 > 80.0                          | 3.759 | 3.769  | -0.010 | 0.997  | 1055759  | 193.2        |               | 96.6 | 1743 |       |
| D 11 18O2 PFHxS                       |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                          | 3.770 | 3.769  | 0.001  | 1.000  | 138511   | 49.8         |               | 105  | 972  |       |
| D 13 M2-6:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                         | 4.342 | 4.353  | -0.011 | 1.000  | 32505    | 64.0         |               | 135  | 203  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 426.6 > 406.6                         | 4.342 | 4.355  | -0.013 | 1.000  | 103555   | 146.4        |               | 73.2 | 551  |       |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N   | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|-------|-------|
| * 15 13C2 PFOA                        |       |        |        |        |          |              |               |      |       |       |
| 414.9 > 369.8                         | 4.393 | 4.401  | -0.008 |        | 609978   | 50.0         |               |      | 2029  |       |
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |      |       |       |
| 416.9 > 371.8                         | 4.393 | 4.407  | -0.014 | 1.000  | 550756   | 48.8         |               | 97.5 | 1064  |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |      |       |       |
| 412.9 > 368.8                         | 4.393 | 4.409  | -0.016 | 1.000  | 2400909  | 208.2        |               | 104  | 1284  |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |      |       |       |
| 448.8 > 79.8                          | 4.449 | 4.441  | 0.008  | 0.856  | 404561   | 186.8        |               | 93.4 | 977   |       |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |      |       |       |
| 467.8 > 422.8                         | 5.168 | 5.171  | -0.003 | 1.000  | 739864   | 51.2         |               | 102  | 1528  |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |      |       |       |
| 462.8 > 418.8                         | 5.168 | 5.175  | -0.007 | 1.000  | 3132708  | 199.6        |               | 99.8 | 2074  |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |      |       |       |
| 502.8 > 79.8                          | 5.195 | 5.195  | 0.0    | 1.000  | 117785   | 50.5         |               | 106  | 722   |       |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |      |       |       |
| 498.8 > 79.8                          | 5.195 | 5.197  | -0.002 | 1.000  | 524118   | 205.9        |               | 103  | 648   | M     |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |      |       |       |
| 528.8 > 508.8                         | 5.926 | 5.929  | -0.003 | 1.000  | 235654   | 61.7         |               | 129  | 462   |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |      |       |       |
| 526.8 > 506.5                         | 5.926 | 5.932  | -0.006 | 1.000  | 627946   | 177.5        |               | 88.8 | 5109  |       |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |      |       |       |
| 514.9 > 469.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 772982   | 48.8         |               | 97.6 | 2998  |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |      |       |       |
| 512.9 > 468.5                         | 5.950 | 5.956  | -0.006 | 1.000  | 2996022  | 194.5        |               | 97.2 | 2613  |       |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |      |       |       |
| 572.8 > 418.8                         | 6.295 | 6.311  | -0.016 | 1.000  | 260524   | 58.4         |               | 117  | 1374  |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |      |       |       |
| 569.8 > 418.8                         | 6.313 | 6.315  | -0.002 | 1.003  | 1195117  | 217.3        |               | 109  | 2069  |       |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |      |       |       |
| 588.9 > 418.8                         | 6.670 | 6.674  | -0.004 | 1.000  | 204310   | 52.8         |               | 106  | 746   |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |      |       |       |
| 583.9 > 418.8                         | 6.688 | 6.697  | -0.009 | 1.003  | 801193   | 199.5        |               | 99.7 | 12847 |       |
| 31 Perfluorodecanesulfonic acid       |       |        |        |        |          |              |               |      |       |       |
| 598.8 > 79.8                          | 6.706 | 6.706  | 0.0    | 1.291  | 508852   | 181.2        |               | 90.6 | 2460  | M     |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |      |       |       |
| 564.8 > 519.8                         | 6.720 | 6.720  | 0.0    | 1.000  | 850165   | 46.8         |               | 93.7 | 3345  |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |      |       |       |
| 562.8 > 518.6                         | 6.720 | 6.720  | 0.0    | 1.000  | 2992927  | 198.7        |               | 99.3 | 4671  |       |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |      |       |       |
| 505.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 195715   | 47.3         |               | 94.6 | 961   |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |               |      |       |       |
| 497.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 690837   | 205.7        |               | 103  | 3726  | M     |
| D 37 13C2 PFDoA                       |       |        |        |        |          |              |               |      |       |       |
| 614.8 > 569.6                         | 7.384 | 7.402  | -0.018 | 1.000  | 1137773  | 57.2         |               | 114  | 1829  |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |      |       |       |
| 612.8 > 568.6                         | 7.407 | 7.407  | 0.0    | 1.003  | 3973346  | 201.9        |               | 101  | 3173  |       |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |      |       |       |
| 662.8 > 618.6                         | 8.012 | 8.020  | -0.008 | 0.936  | 4200028  | 191.5        |               | 95.8 | 9817  | M     |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.560 | 8.563     | -0.003    | 1.000     | 1178361  | 61.0            |                 | 122  | 792  |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      |       |
| 712.8 > 668.6                  | 8.560 | 8.567     | -0.007    | 1.000     | 4459298  | 193.5           |                 | 96.7 | 6016 |       |
| 712.8 > 168.8                  | 8.560 | 8.567     | -0.007    | 1.000     | 872563   |                 | 5.11(0.00-0.00) | 96.7 | 154  |       |
| 712.8 > 218.8                  | 8.560 | 8.567     | -0.007    | 1.000     | 493740   |                 | 9.03(0.00-0.00) | 96.7 | 136  |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L6\_00003

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A14.d

Injection Date: 12-Oct-2018 19:35:58

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 14

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

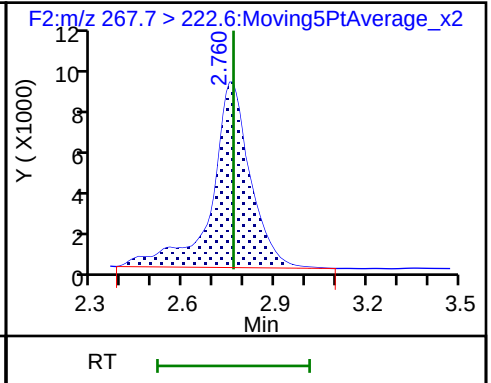
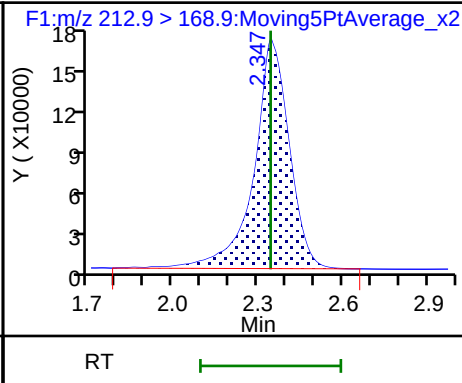
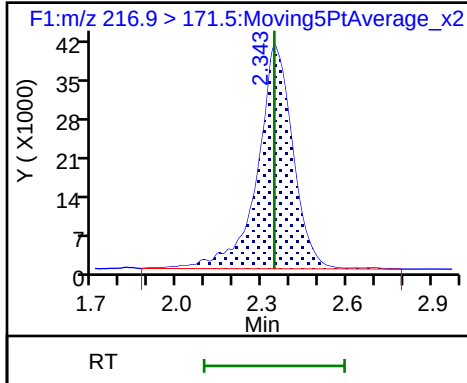
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

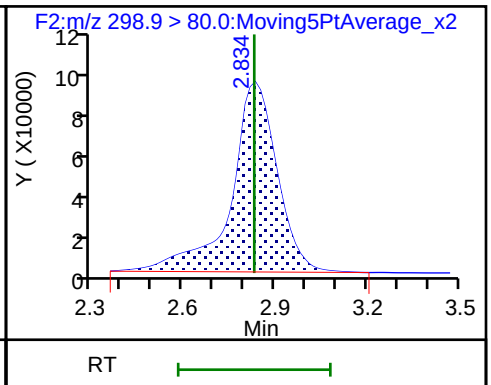
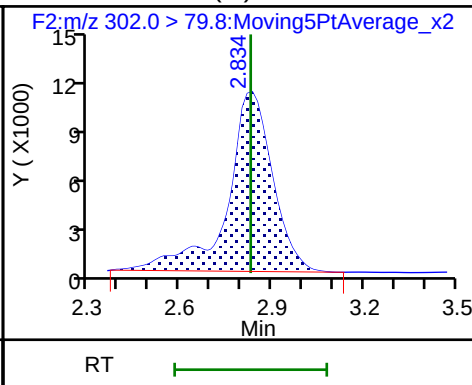
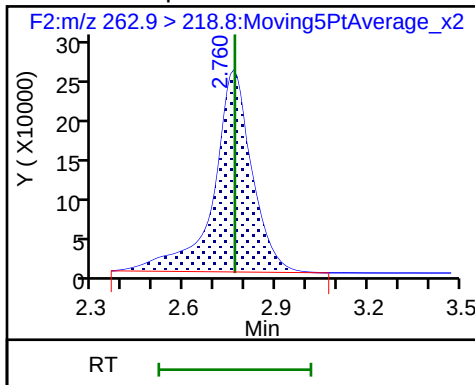
D 3 13C5 PFPeA (M)



4 Perfluoropentanoic acid

D 6 13C3 PFBS (M)

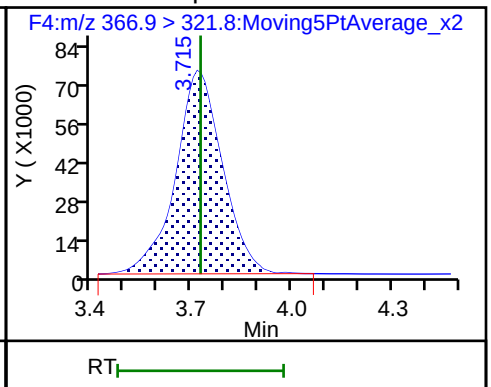
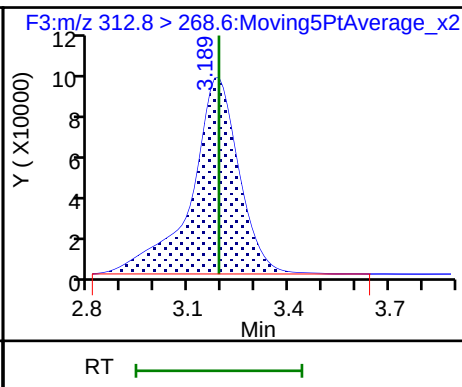
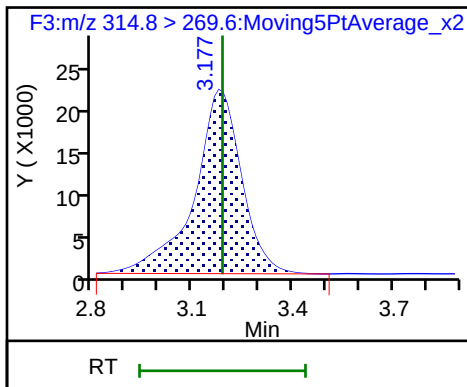
5 Perfluorobutanesulfonic acid



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

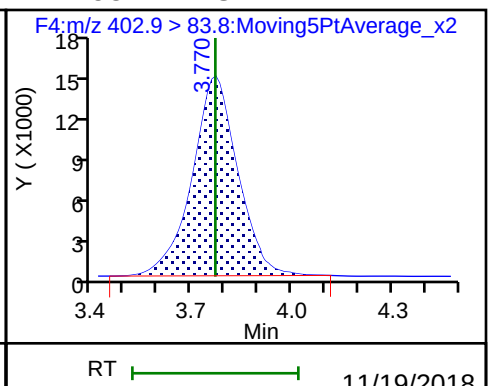
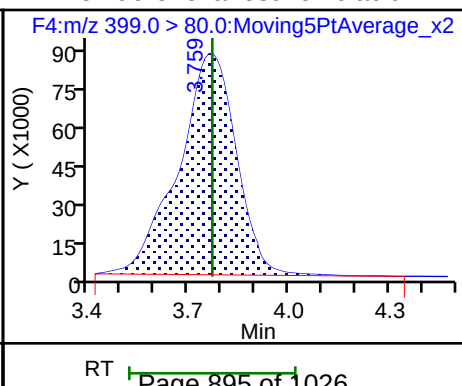
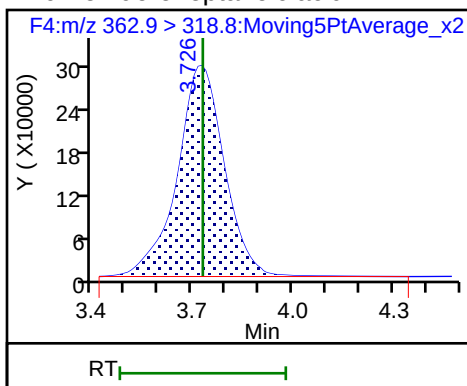
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

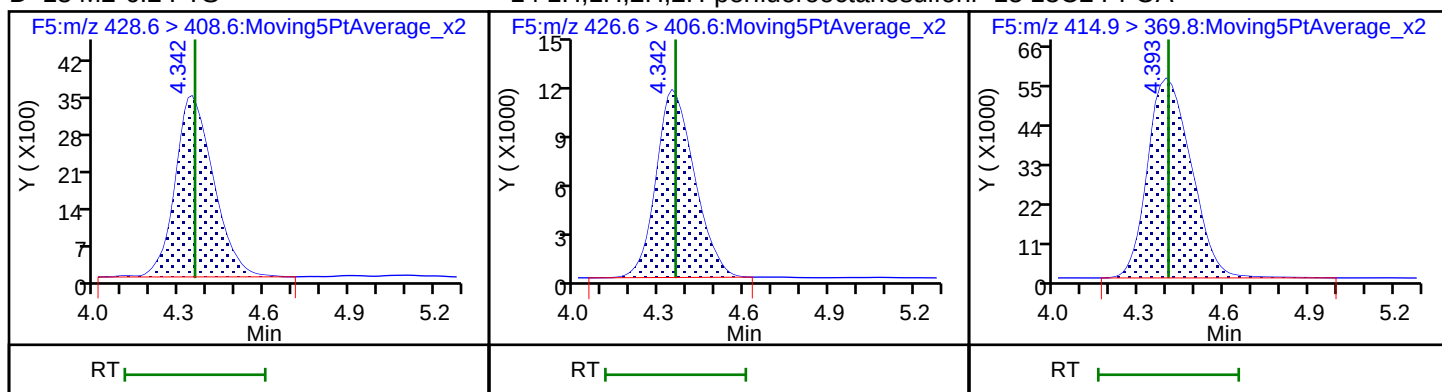
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

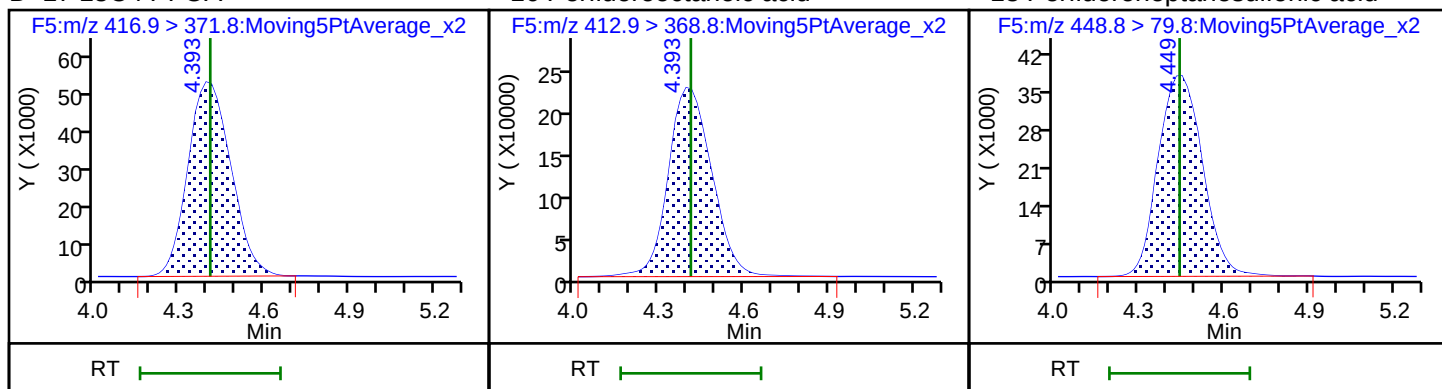
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

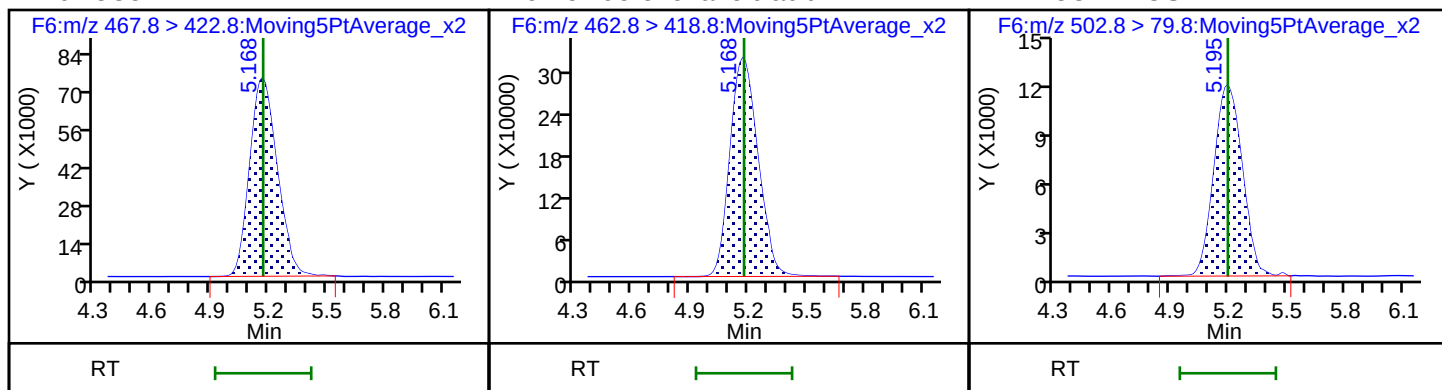
18 Perfluoroheptanesulfonic acid



D 20 13C5 PFNA

19 Perfluorononanoic acid

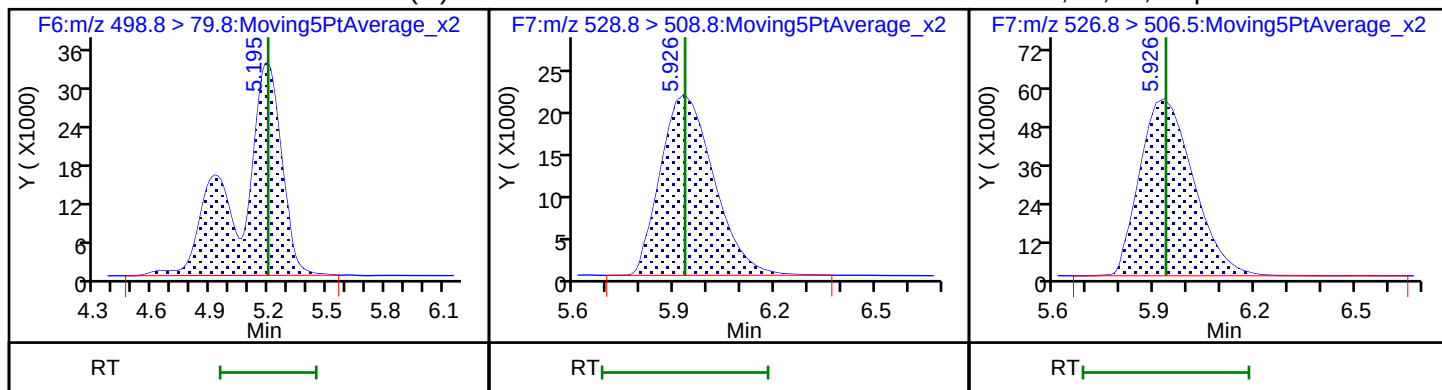
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

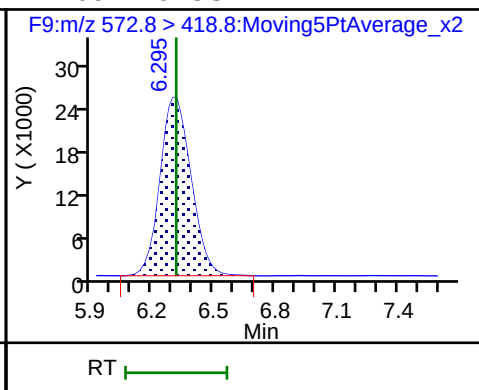
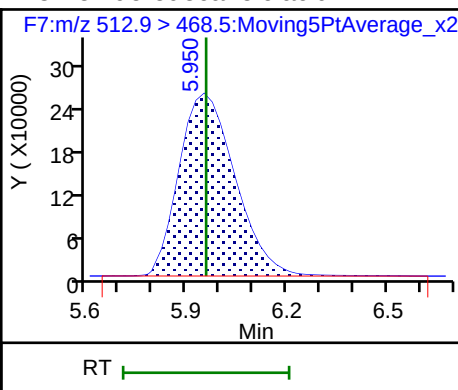
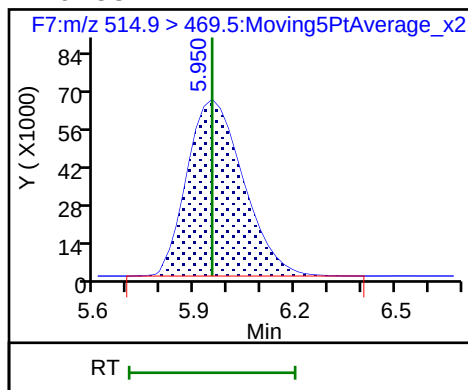
23 1H,1H,2H,2H-perfluorodecanesulfonate



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

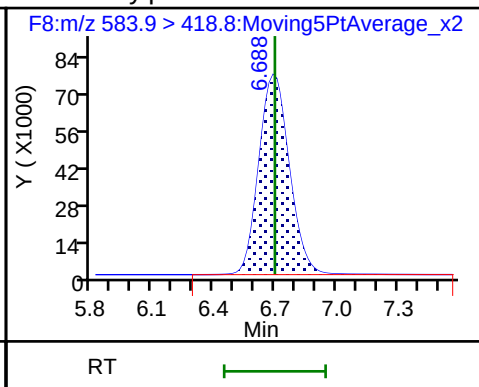
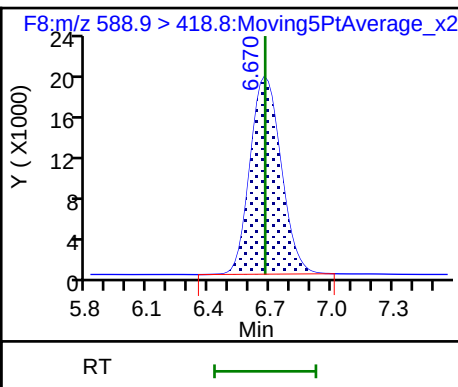
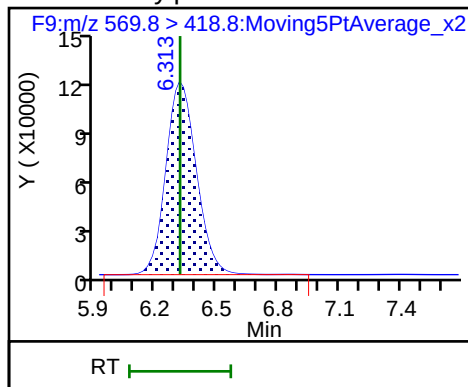
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamid

## D 29 d5-NEtFOSAA

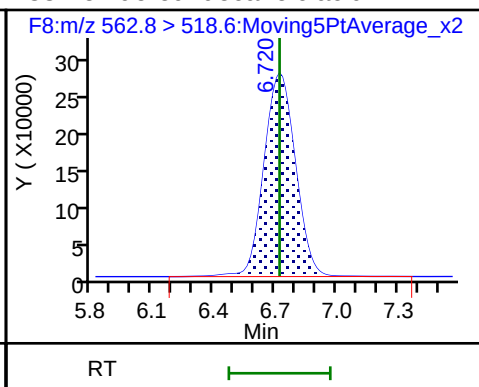
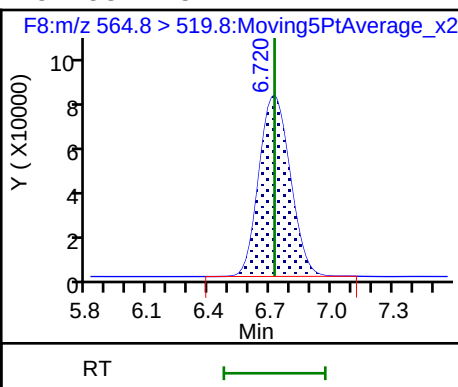
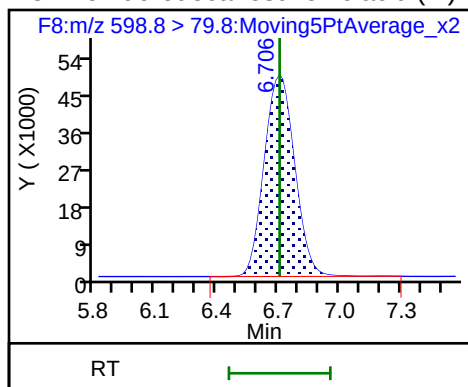
## 30 N-ethylperfluorooctanesulfonamidoa



## 31 Perfluorodecanesulfonic acid (M)

## D 32 13C2 PFUnA

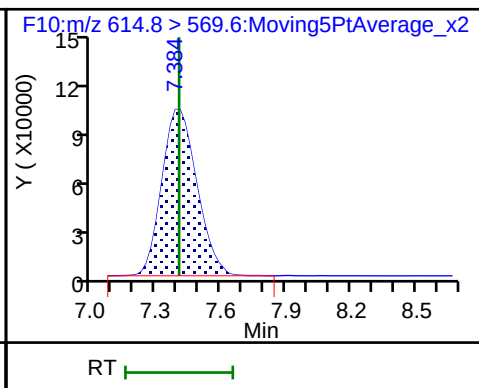
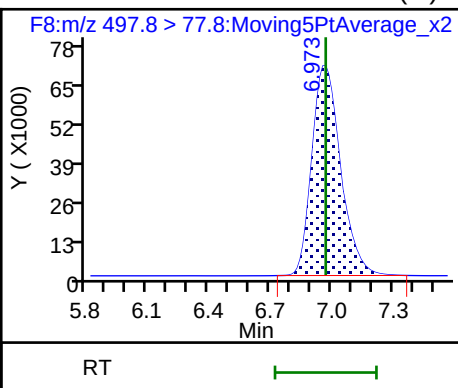
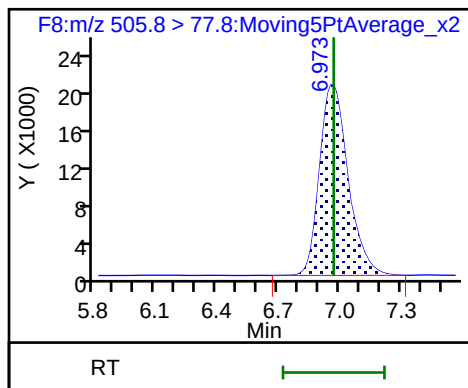
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide (M)

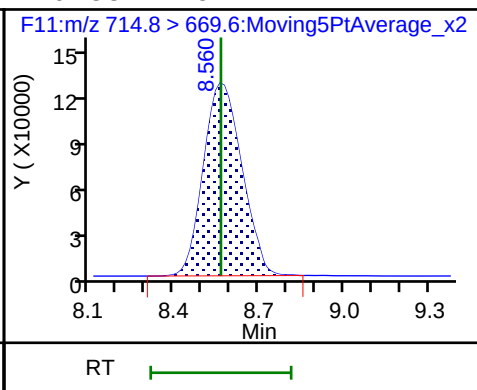
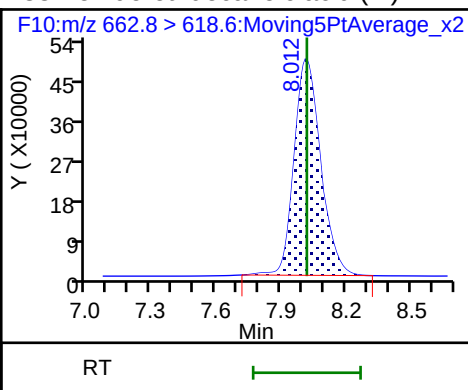
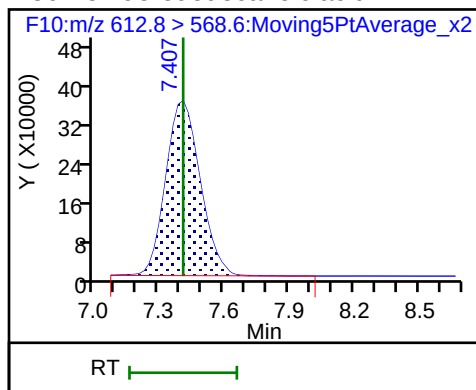
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid (M)

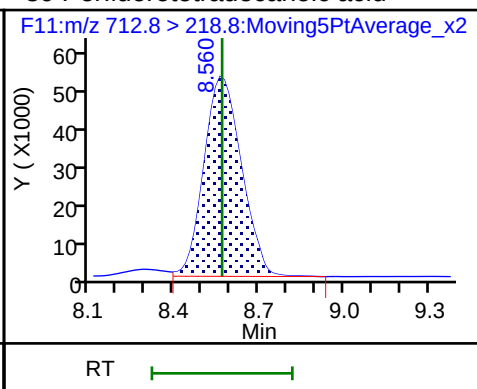
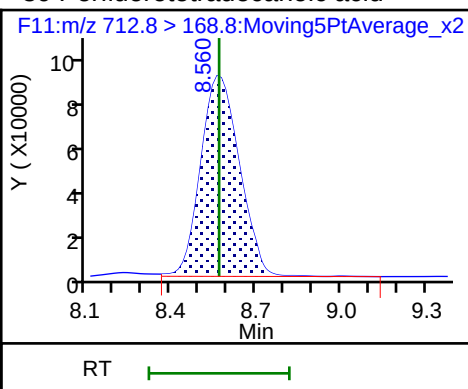
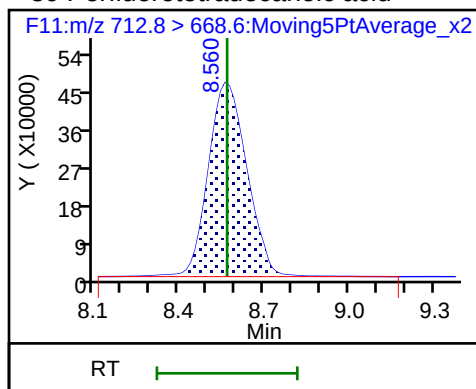
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

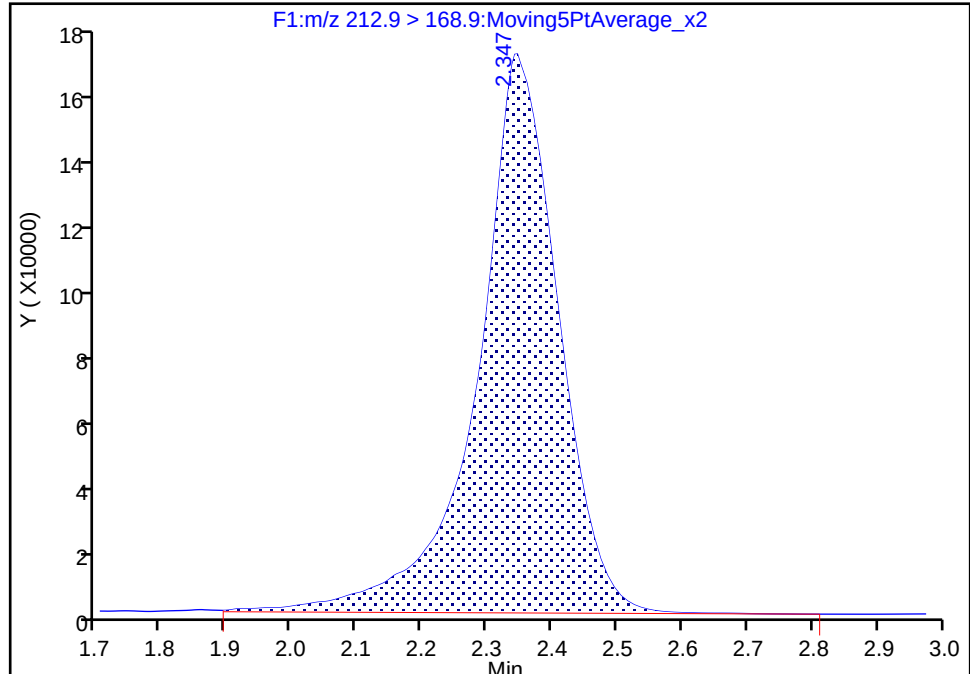
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
Injection Date: 12-Oct-2018 19:35:58 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

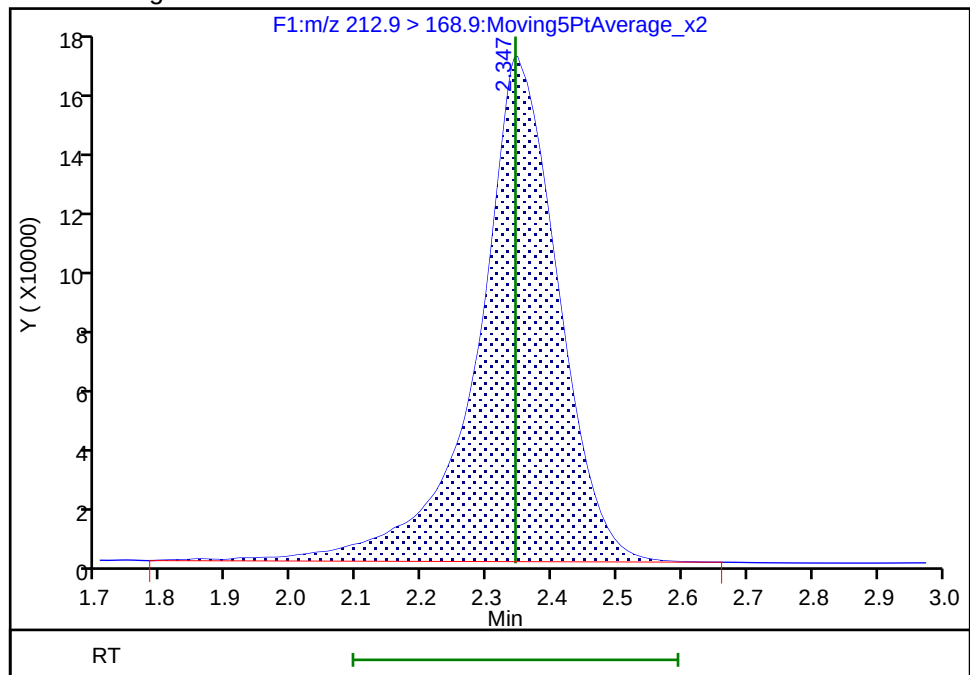
RT: 2.35  
Area: 1467814  
Amount: 202.9165  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.35  
Area: 1465760  
Amount: 213.6030  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:48:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

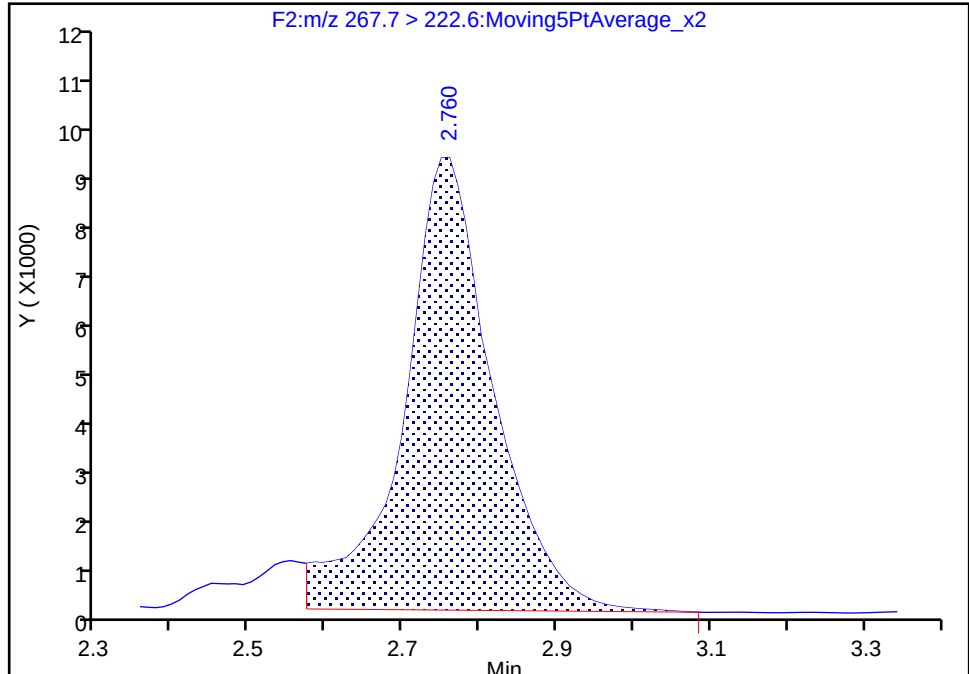
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
Injection Date: 12-Oct-2018 19:35:58 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

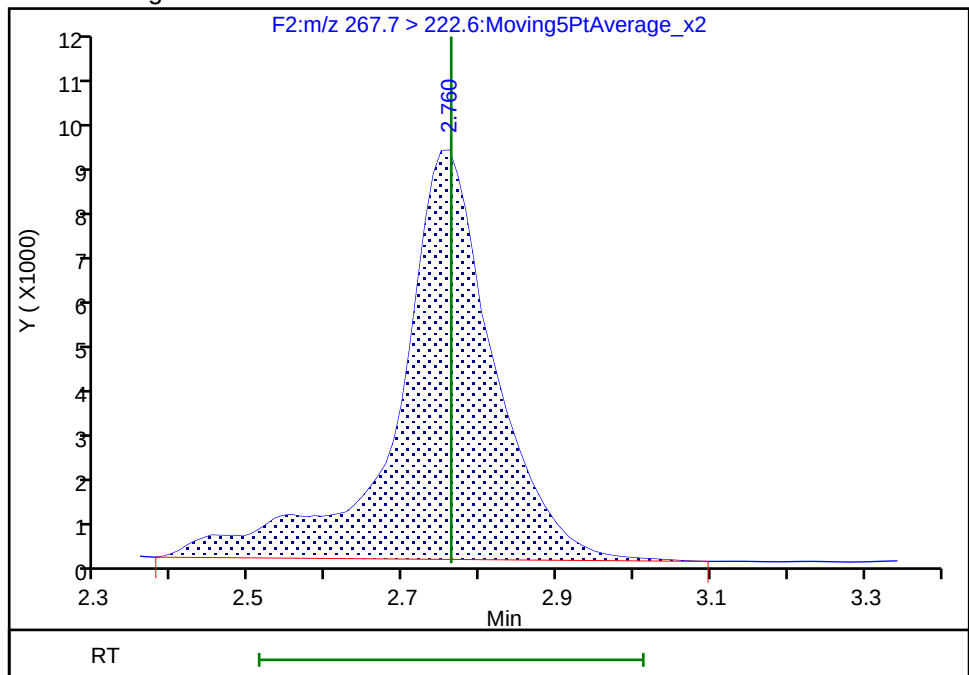
RT: 2.76  
Area: 69549  
Amount: 44.443867  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.76  
Area: 75338  
Amount: 47.750663  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:48:35  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

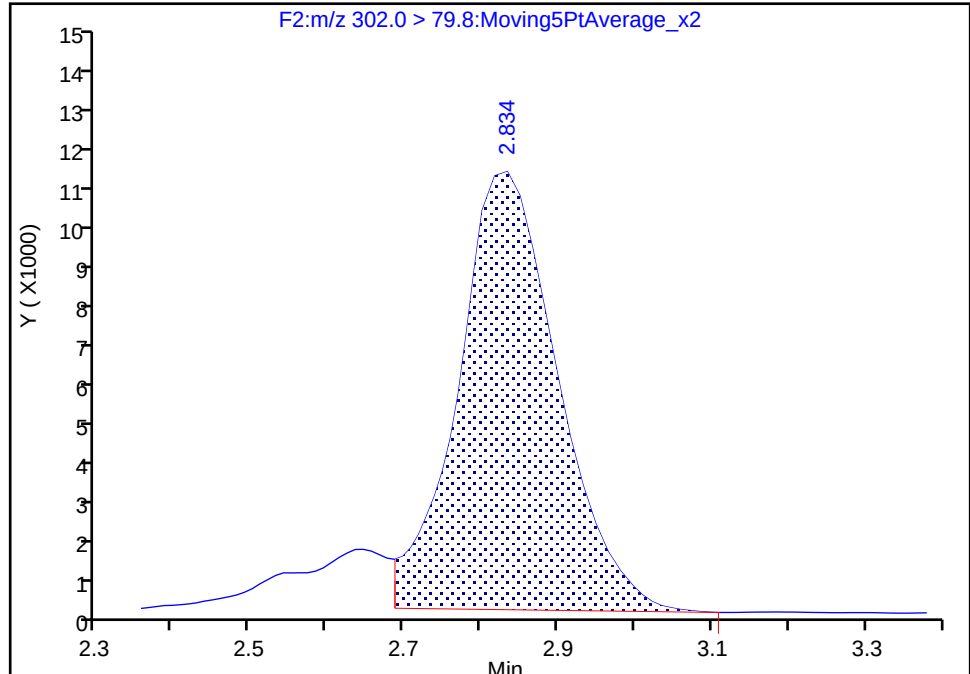
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
Injection Date: 12-Oct-2018 19:35:58 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

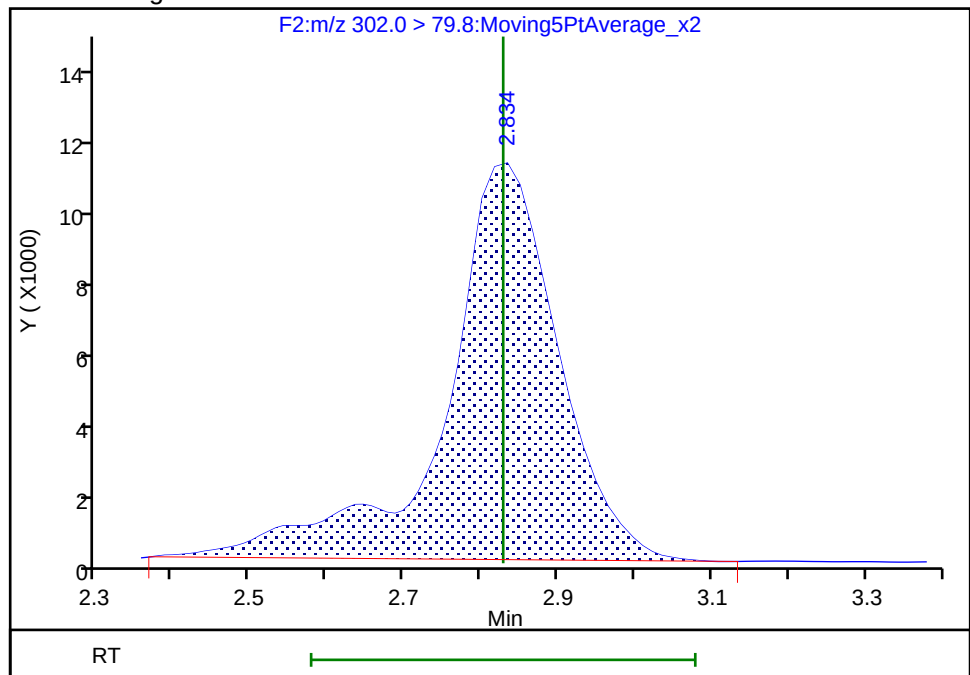
RT: 2.83  
Area: 97370  
Amount: 42.778461  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.83  
Area: 110871  
Amount: 48.029248  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:48:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Injection Date: 12-Oct-2018 19:35:58

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 14

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

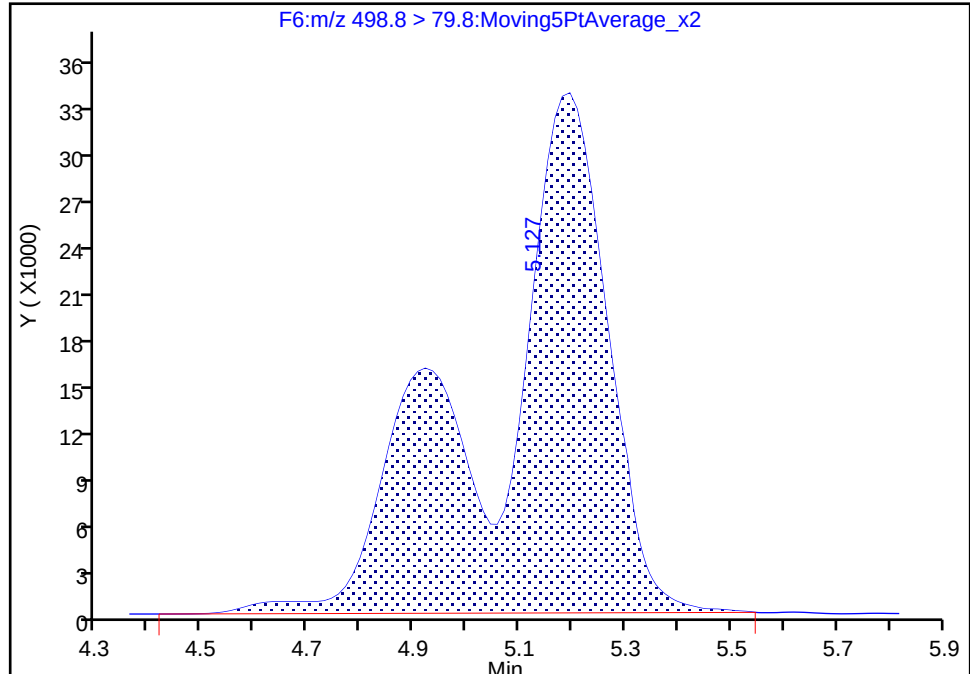
Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

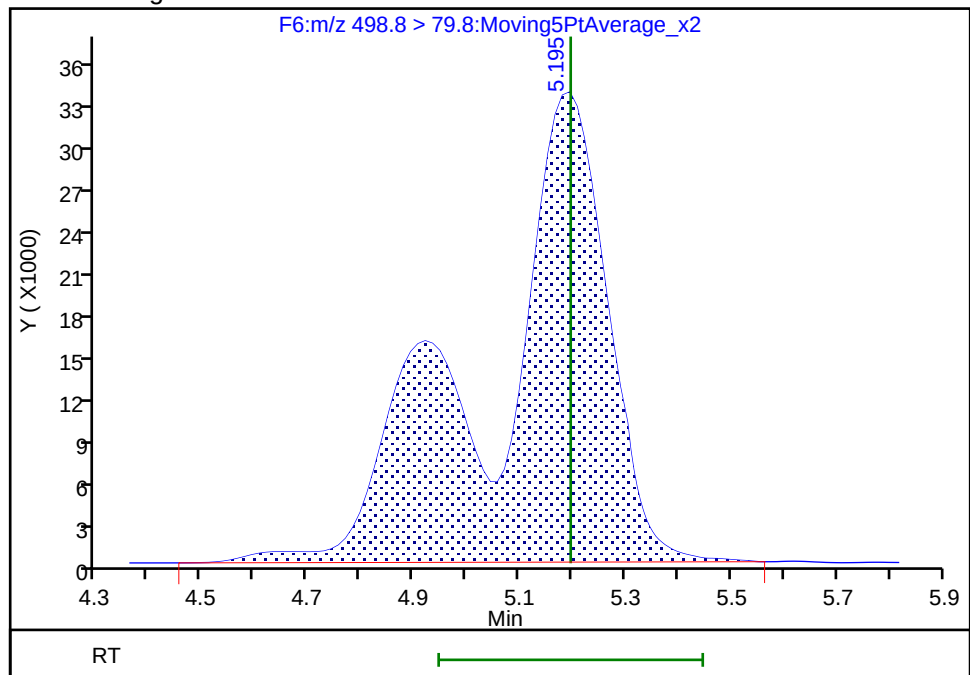
RT: 5.13  
Area: 523395  
Amount: 205.5692  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.19  
Area: 524118  
Amount: 205.9305  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:48:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

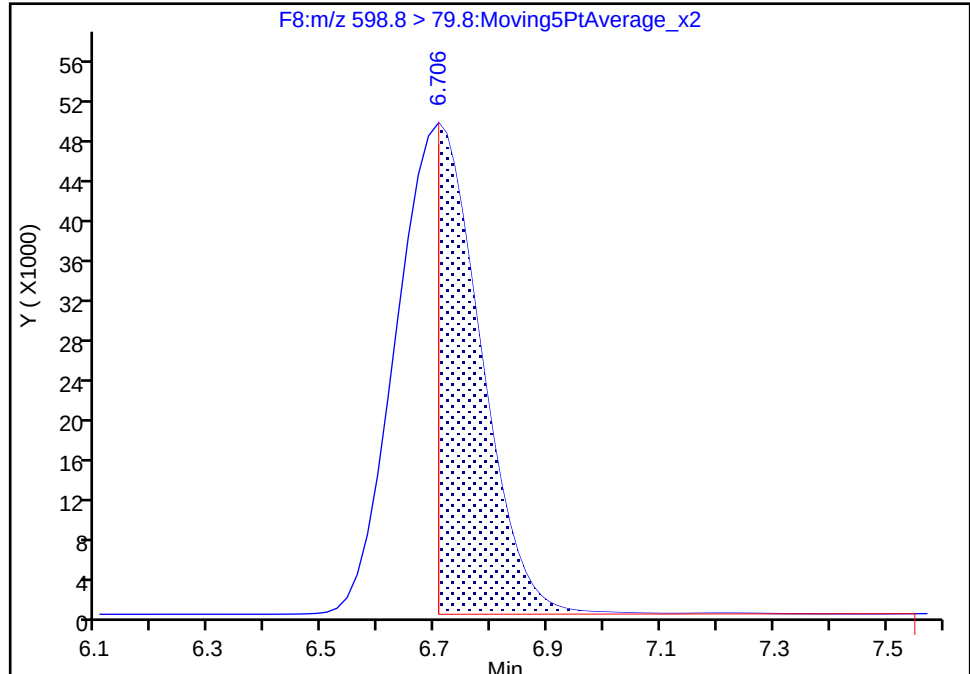
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
Injection Date: 12-Oct-2018 19:35:58 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F8:MRM

**31 Perfluorodecanesulfonic acid, CAS: 335-77-3**

Signal: 1

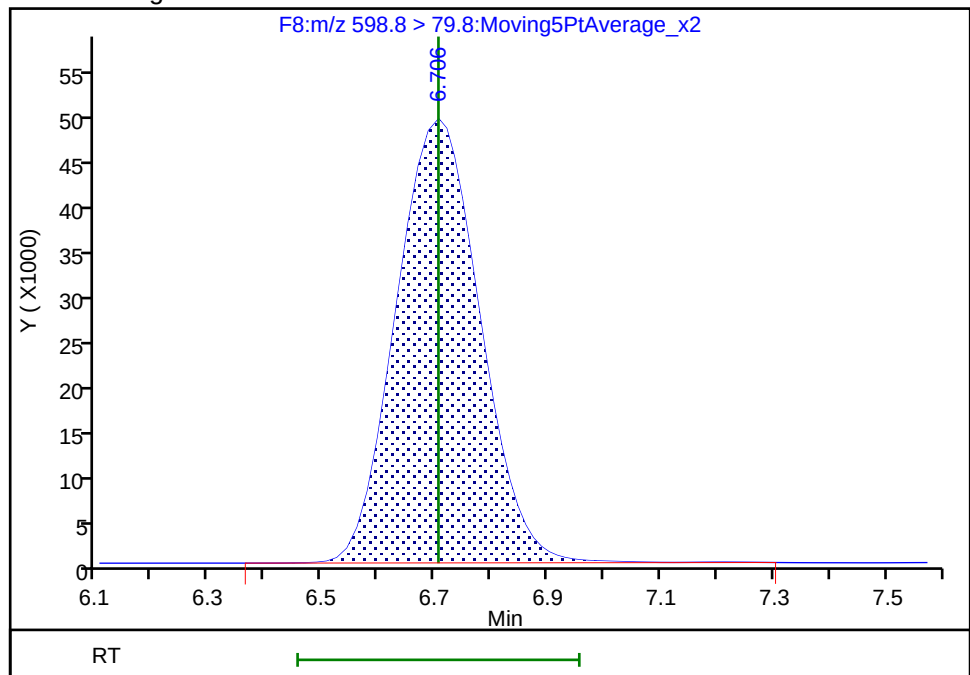
RT: 6.71  
Area: 259402  
Amount: 97.140759  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.71  
Area: 508852  
Amount: 181.1534  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:48:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

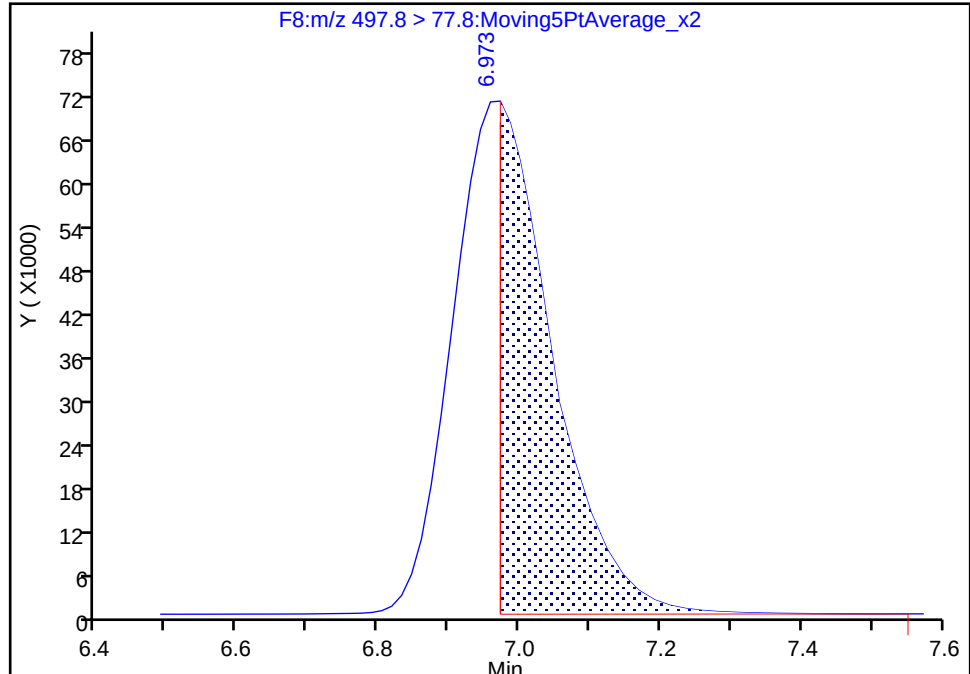
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
Injection Date: 12-Oct-2018 19:35:58 Instrument ID: LC410  
Lims ID: IC  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F8:MRM

**34 Perfluorooctanesulfonamide, CAS: 754-91-6**

Signal: 1

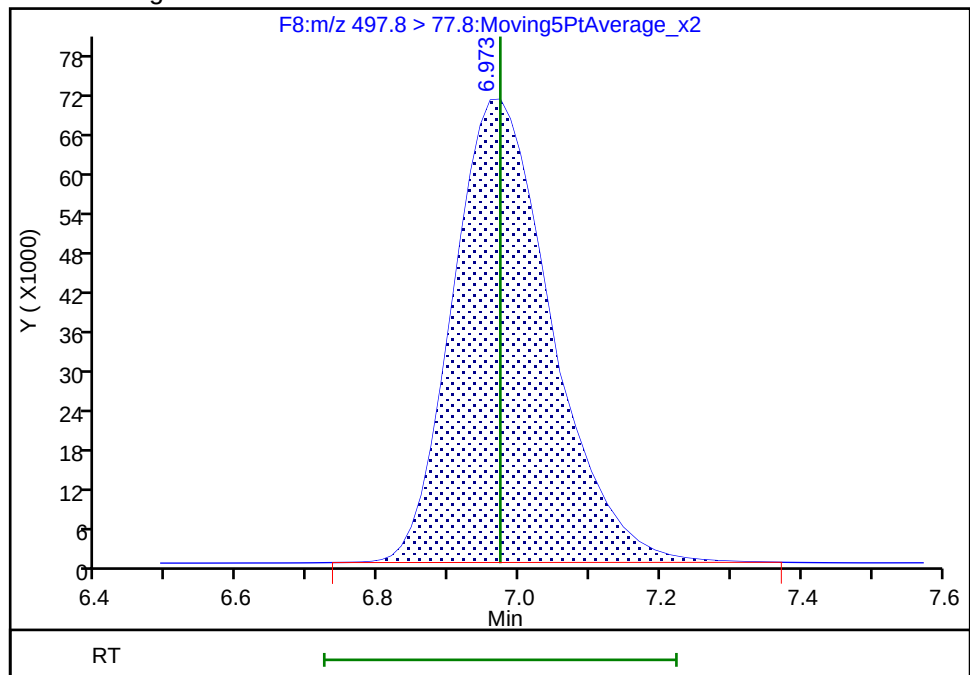
RT: 6.97  
Area: 368768  
Amount: 116.0023  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.97  
Area: 690837  
Amount: 205.7349  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:48:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Injection Date: 12-Oct-2018 19:35:58

Instrument ID: LC410

Lims ID: IC

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 14

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

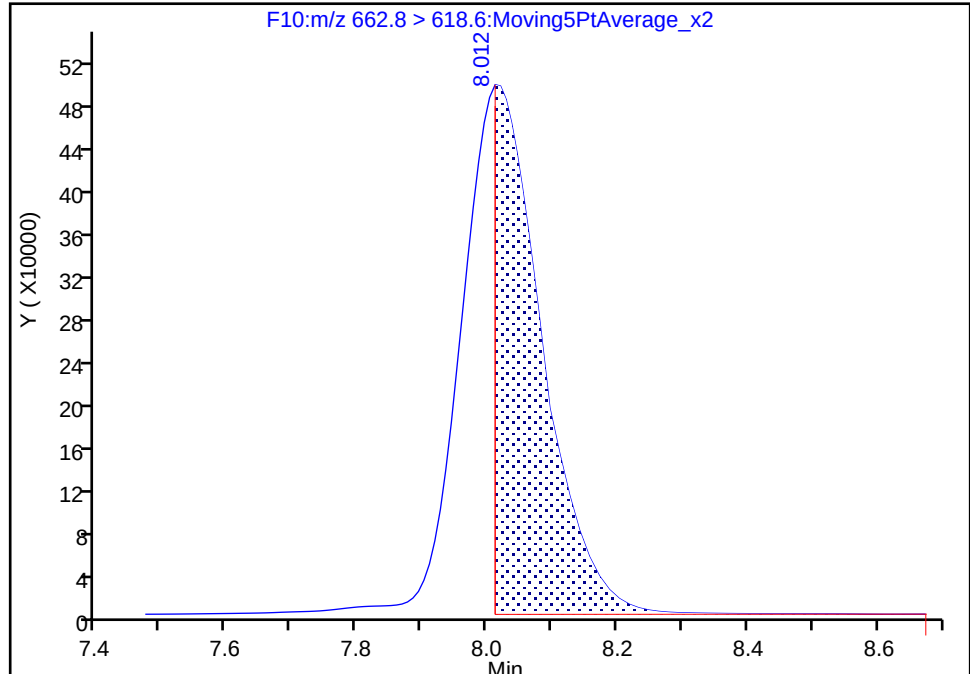
Detector F10:MRM

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

Signal: 1

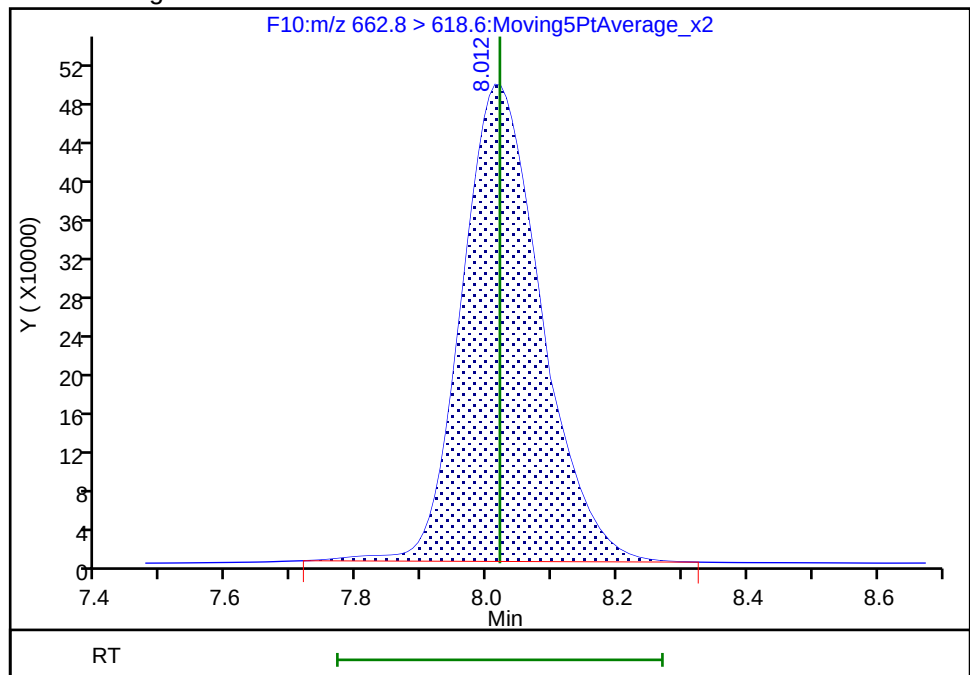
RT: 8.01  
Area: 2475739  
Amount: 118.0375  
Amount Units: ng/ml

## Processing Integration Results



RT: 8.01  
Area: 4200128  
Amount: 191.5054  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 21:47:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 200-135180/16 Calibration Date: 10/12/2018 20:07

Instrument ID: LC410 Calib Start Date: 10/12/2018 17:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 10/12/2018 19:35

Lab File ID: PF101218A16.d Conc. Units: ng/L

| ANALYTE                                                  | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|----------------------------------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Perfluorobutanoic acid (PFBA)                            | AveID      | 0.9581  | 0.9403 |         | 19630       | 20000        | -1.9  | 40.0   |
| Perfluoropentanoic acid (PFPeA)                          | AveID      | 6.771   | 6.449  |         | 19050       | 20000        | -4.8  | 40.0   |
| Perfluorobutanesulfonic acid (PFBS)                      | AveID      | 2.033   | 1.851  |         | 16120       | 17700        | -9.0  | 40.0   |
| Perfluorohexanoic acid (PFHxA)                           | AveID      | 1.063   | 0.8578 |         | 16140       | 20000        | -19.3 | 40.0   |
| Perfluoroheptanoic acid (PFHpA)                          | AveID      | 1.005   | 0.9502 |         | 18910       | 20000        | -5.4  | 40.0   |
| Perfluorohexanesulfonic acid (PFHxS)                     | AveID      | 1.866   | 1.530  |         | 14950       | 18200        | -18.0 | 40.0   |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | AveID      | 1.034   | 0.9507 |         | 17470       | 19000        | -8.0  | 40.0   |
| Perfluorooctanoic acid (PFOA)                            | AveID      | 1.047   | 0.9367 |         | 17900       | 20000        | -10.5 | 40.0   |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | AveID      | 0.8790  | 0.8754 |         | 18920       | 19000        | -0.4  | 50.0   |
| Perfluorononanoic acid (PFNA)                            | L1ID       |         | 0.9433 |         | 17310       | 20000        | -13.4 | 40.0   |
| Perfluorooctanesulfonic acid (PFOS)                      | AveID      | 1.033   | 1.028  |         | 18430       | 18500        | -0.4  | 40.0   |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | AveID      | 0.7190  | 0.8049 |         | 21490       | 19200        | 11.9  | 40.0   |
| Perfluorodecanoic acid (PFDA)                            | L1ID       |         | 0.8721 |         | 17530       | 20000        | -12.4 | 40.0   |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | AveID      | 1.056   | 1.072  |         | 20310       | 20000        | 1.5   | 40.0   |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | AveID      | 0.9829  | 0.9107 |         | 18530       | 20000        | -7.3  | 40.0   |
| Perfluorodecanesulfonic acid (PFDS)                      | AveID      | 1.140   | 1.005  |         | 17010       | 19300        | -11.9 | 50.0   |
| Perfluoroundecanoic acid (PFUnA)                         | AveID      | 0.8859  | 0.8232 |         | 18580       | 20000        | -7.1  | 40.0   |
| Perfluorooctanesulfonamide (PFOSA)                       | AveID      | 0.8579  | 0.8076 |         | 18830       | 20000        | -5.9  | 40.0   |
| Perfluorododecanoic acid (PFDoA)                         | AveID      | 0.8649  | 0.8176 |         | 18900       | 20000        | -5.5  | 40.0   |
| Perfluorotridecanoic acid (PFTrIA)                       | AveID      | 0.9306  | 0.9025 |         | 19390       | 20000        | -3.0  | 540.0  |
| Perfluorotetradecanoic acid (PFTeA)                      | AveID      | 0.9779  | 0.8305 |         | 16990       | 20000        | -15.1 | 40.0   |
| 13C4 PFBA                                                | Ave        | 0.5391  | 0.6306 |         | 58480       | 50000        | 17.0  | 50.0   |
| 13C5 PFPeA                                               | Ave        | 0.1293  | 0.1434 |         | 55420       | 50000        | 10.8  | 50.0   |
| 13C3 PFBS                                                | Ave        | 0.1892  | 0.2104 |         | 51700       | 46500        | 11.2  | 50.0   |
| 13C2 PFHxA                                               | Ave        | 0.3939  | 0.4521 |         | 57390       | 50000        | 14.8  | 50.0   |
| 13C4 PFHpA                                               | Ave        | 1.153   | 1.296  |         | 56170       | 50000        | 12.3  | 50.0   |
| 18O2 PFHxS                                               | Ave        | 0.2281  | 0.2660 |         | 55150       | 47300        | 16.6  | 50.0   |
| M2-6:2 FTS                                               | Ave        | 0.0416  | 0.0424 |         | 48390       | 47500        | 1.9   | 50.0   |
| 13C4 PFOA                                                | Ave        | 0.9256  | 1.056  |         | 57030       | 50000        | 14.1  | 50.0   |
| 13C5 PFNA                                                | Ave        | 1.184   | 1.308  |         | 55240       | 50000        | 10.5  | 50.0   |
| 13C4 PFOS                                                | Ave        | 0.1912  | 0.2029 |         | 50710       | 47800        | 6.1   | 50.0   |
| M2-8:2 FTS                                               | Ave        | 0.3129  | 0.3280 |         | 50210       | 47900        | 4.8   | 50.0   |

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-135180/16 Calibration Date: 10/12/2018 20:07  
 Instrument ID: LC410 Calib Start Date: 10/12/2018 17:29  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 10/12/2018 19:35  
 Lab File ID: PF101218A16.d Conc. Units: ng/L

| ANALYTE     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|-------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| 13C2 PFDA   | Ave           | 1.298   | 1.465  |         | 56450          | 50000           | 12.9 | 50.0      |
| d3-NMeFOSAA | Ave           | 0.3656  | 0.3783 |         | 51740          | 50000           | 3.5  | 50.0      |
| d5-NEtFOSAA | Ave           | 0.3175  | 0.3796 |         | 59790          | 50000           | 19.6 | 50.0      |
| 13C2 PFUnA  | Ave           | 1.488   | 1.706  |         | 57350          | 50000           | 14.7 | 50.0      |
| 13C8 FOSA   | Ave           | 0.3392  | 0.3745 |         | 55190          | 50000           | 10.4 | 50.0      |
| 13C2 PFDoA  | Ave           | 1.630   | 1.831  |         | 56170          | 50000           | 12.3 | 50.0      |
| 13C2 PFTeDA | Ave           | 1.584   | 1.828  |         | 57710          | 50000           | 15.4 | 50.0      |



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A16.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 12-Oct-2018 20:07:38 ALS Bottle#: 0 Worklist Smp#: 16  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-016 ICV  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist:  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:32:11 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM  
 Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 12-Oct-2018 22:01:26

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |           |           |           |          |                 |               |      |      |       |
| 216.9 > 171.5                         | 2.343 | 2.326     | 0.017     | 1.000     | 451383   | 58.5            |               | 117  | 929  |       |
| 2 Perfluorobutanoic acid              |       |           |           |           |          |                 |               |      |      | M     |
| 212.9 > 168.9                         | 2.347 | 2.344     | 0.003     | 1.002     | 169768   | 19.6            |               |      | 442  | M     |
| D 3 13C5 PFPeA                        |       |           |           |           |          |                 |               |      |      | M     |
| 267.7 > 222.6                         | 2.770 | 2.763     | 0.007     | 1.000     | 102614   | 55.4            |               | 111  | 1002 | M     |
| 4 Perfluoropentanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 262.9 > 218.8                         | 2.770 | 2.763     | 0.007     | 1.000     | 264702   | 19.0            |               |      | 899  |       |
| D 6 13C3 PFBS                         |       |           |           |           |          |                 |               |      |      |       |
| 302.0 > 79.8                          | 2.834 | 2.829     | 0.005     | 1.000     | 140051   | 51.7            |               | 111  | 594  |       |
| 5 Perfluorobutanesulfonic acid        |       |           |           |           |          |                 |               |      |      | M     |
| 298.9 > 80.0                          | 2.834 | 2.830     | 0.004     | 1.000     | 98689    | 16.1            |               |      | 703  | M     |
| D 7 13C2 PFHxA                        |       |           |           |           |          |                 |               |      |      |       |
| 314.8 > 269.6                         | 3.201 | 3.188     | 0.013     | 1.000     | 323654   | 57.4            |               | 115  | 3081 |       |
| 8 Perfluorohexanoic acid              |       |           |           |           |          |                 |               |      |      |       |
| 312.8 > 268.6                         | 3.201 | 3.189     | 0.012     | 1.000     | 111056   | 16.1            |               |      | 2080 |       |
| D 9 13C4 PFHpA                        |       |           |           |           |          |                 |               |      |      |       |
| 366.9 > 321.8                         | 3.737 | 3.725     | 0.012     | 1.000     | 927462   | 56.2            |               | 112  | 4028 |       |
| 10 Perfluoroheptanoic acid            |       |           |           |           |          |                 |               |      |      |       |
| 362.9 > 318.8                         | 3.737 | 3.728     | 0.009     | 1.000     | 352496   | 18.9            |               |      | 2500 |       |
| 12 Perfluorohexanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 399.0 > 80.0                          | 3.781 | 3.769     | 0.012     | 1.000     | 106231   | 15.0            |               |      | 1599 |       |
| D 11 18O2 PFHxS                       |       |           |           |           |          |                 |               |      |      |       |
| 402.9 > 83.8                          | 3.781 | 3.770     | 0.011     | 1.000     | 180109   | 55.2            |               | 117  | 902  |       |
| D 13 M2-6:2 FTS                       |       |           |           |           |          |                 |               |      |      | M     |
| 428.6 > 408.6                         | 4.374 | 4.353     | 0.021     | 1.000     | 28845    | 48.4            |               | 102  | 121  | M     |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |           |           |           |          |                 |               |      |      | M     |
| 426.6 > 406.6                         | 4.355 | 4.355     | 0.0       | 0.996     | 10969    | 17.5            |               | 123  | 123  | M     |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| * 15 13C2 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                         | 4.411 | 4.401  | 0.010  |        | 715841   | 50.0         |               |      | 2200 |       |
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                         | 4.411 | 4.407  | 0.004  | 1.000  | 755805   | 57.0         |               | 114  | 1030 |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 412.9 > 368.8                         | 4.411 | 4.409  | 0.002  | 1.000  | 283177   | 17.9         |               |      | 940  |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |      |      |       |
| 448.8 > 79.8                          | 4.449 | 4.441  | 0.008  | 0.856  | 48316    | 18.9         |               |      | 335  |       |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |      |      |       |
| 467.8 > 422.8                         | 5.181 | 5.171  | 0.010  | 1.000  | 936524   | 55.2         |               | 110  | 2724 |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 462.8 > 418.8                         | 5.181 | 5.175  | 0.006  | 1.000  | 353373   | 17.3         |               |      | 926  |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |      |      |       |
| 502.8 > 79.8                          | 5.195 | 5.195  | 0.0    | 1.000  | 138849   | 50.7         |               | 106  | 393  |       |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 498.8 > 79.8                          | 5.209 | 5.197  | 0.012  | 1.003  | 55290    | 18.4         |               |      | 192  | M     |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 528.8 > 508.8                         | 5.950 | 5.929  | 0.021  | 1.000  | 224925   | 50.2         |               | 105  | 521  |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 526.8 > 506.5                         | 5.950 | 5.932  | 0.018  | 1.000  | 72564    | 21.5         |               |      | 338  |       |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |      |      |       |
| 514.9 > 469.5                         | 5.974 | 5.950  | 0.024  | 1.000  | 1048902  | 56.4         |               | 113  | 925  |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 512.9 > 468.5                         | 5.974 | 5.956  | 0.018  | 1.000  | 365893   | 17.5         |               |      | 1018 |       |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 572.8 > 418.8                         | 6.313 | 6.311  | 0.002  | 1.000  | 270804   | 51.7         |               | 103  | 1884 |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |      |      |       |
| 569.8 > 418.8                         | 6.313 | 6.315  | -0.002 | 1.000  | 116099   | 20.3         |               |      | 342  |       |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 588.9 > 418.8                         | 6.688 | 6.674  | 0.014  | 1.000  | 271754   | 59.8         |               | 120  | 2031 |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |      |      |       |
| 583.9 > 418.8                         | 6.706 | 6.697  | 0.009  | 1.003  | 98997    | 18.5         |               |      | 778  |       |
| 31 Perfluorodecanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 598.8 > 79.8                          | 6.720 | 6.706  | 0.014  | 1.294  | 56330    | 17.0         |               |      | 761  |       |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |      |      |       |
| 564.8 > 519.8                         | 6.734 | 6.720  | 0.014  | 1.000  | 1221369  | 57.3         |               | 115  | 4252 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 562.8 > 518.6                         | 6.720 | 6.720  | 0.0    | 0.998  | 402183   | 18.6         |               |      | 1508 |       |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |      |      |       |
| 505.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 268051   | 55.2         |               | 110  | 946  |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |               |      |      |       |
| 497.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.000  | 86594    | 18.8         |               |      | 416  |       |
| D 37 13C2 PFDoA                       |       |        |        |        |          |              |               |      |      |       |
| 614.8 > 569.6                         | 7.407 | 7.402  | 0.005  | 1.000  | 1310667  | 56.2         |               | 112  | 2473 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 612.8 > 568.6                         | 7.407 | 7.407  | 0.0    | 1.000  | 428622   | 18.9         |               |      | 3638 |       |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |      |      |       |
| 662.8 > 618.6                         | 8.029 | 8.020  | 0.009  | 0.938  | 472444   | 19.4         |               |      | 1849 |       |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A16.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.560 | 8.563     | -0.003    | 1.000     | 1308777  | 57.7            |                 | 115  | 828  |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      |       |
| 712.8 > 668.6                  | 8.575 | 8.567     | 0.008     | 1.002     | 434775   | 17.0            |                 |      | 1451 |       |
| 712.8 > 168.8                  | 8.575 | 8.567     | 0.008     | 1.002     | 92233    |                 | 4.71(0.00-0.00) |      | 379  |       |
| 712.8 > 218.8                  | 8.560 | 8.567     | -0.007    | 1.000     | 48225    |                 | 9.02(0.00-0.00) |      | 256  |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24ISICV\_00002

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A16.d

Injection Date: 12-Oct-2018 20:07:38

Instrument ID: LC410

Lims ID: ICV

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 16

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

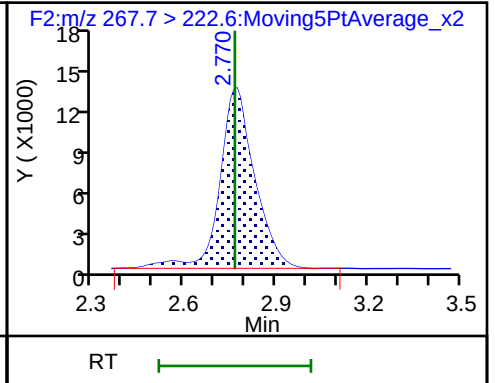
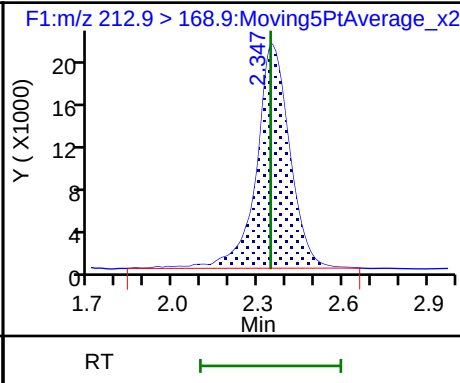
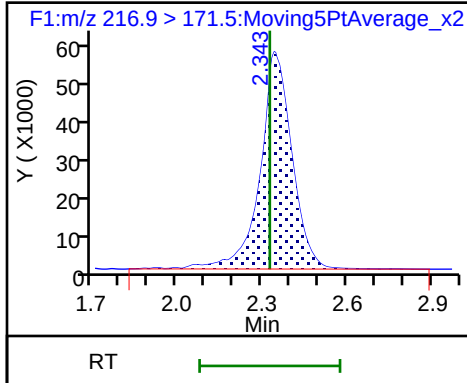
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

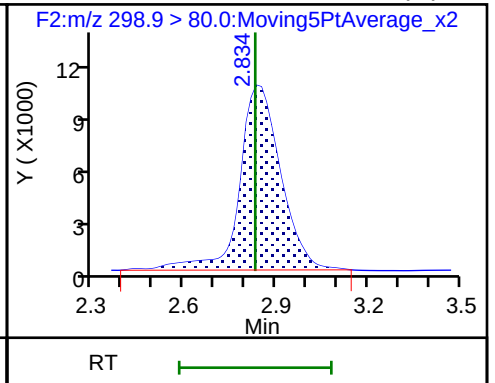
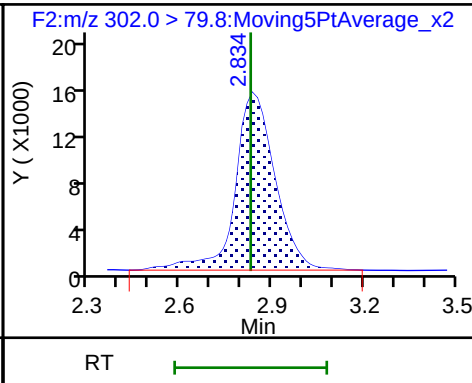
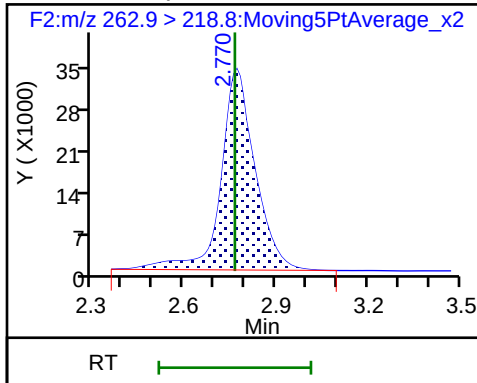
D 3 13C5 PFPeA (M)



4 Perfluoropentanoic acid

D 6 13C3 PFBS

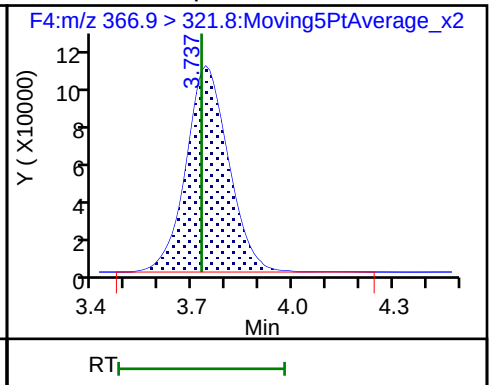
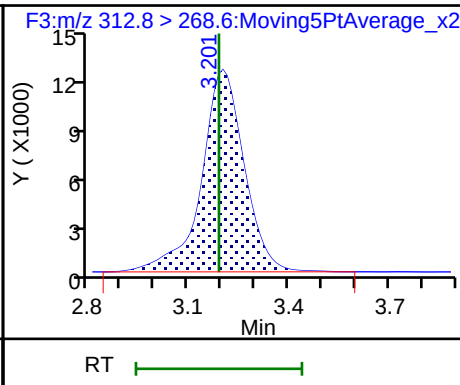
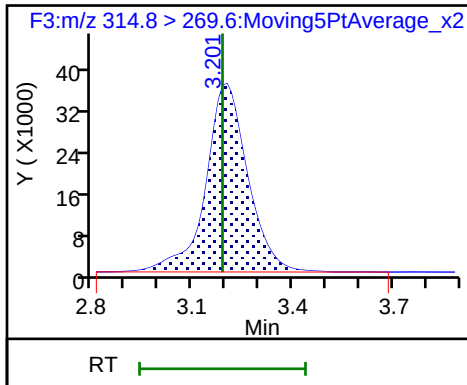
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

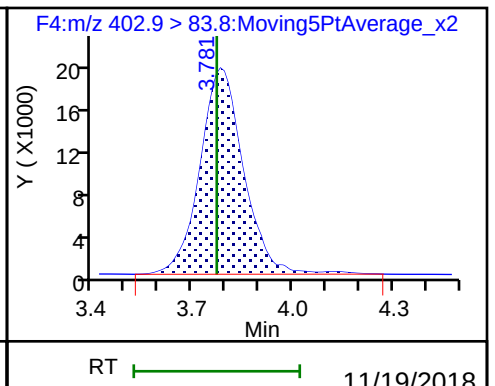
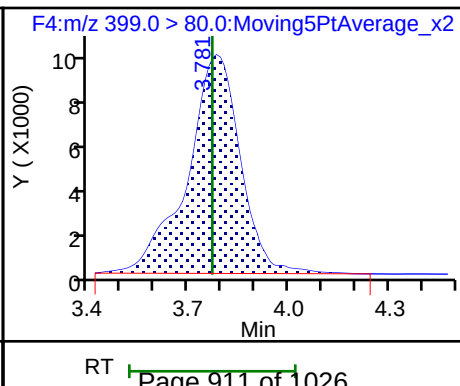
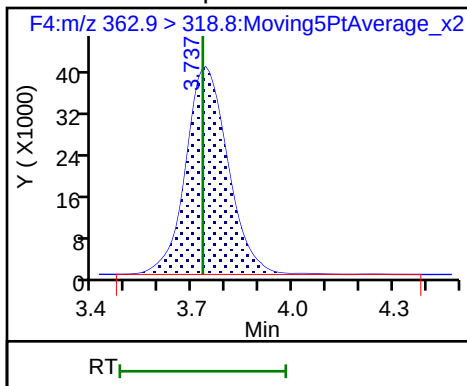
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

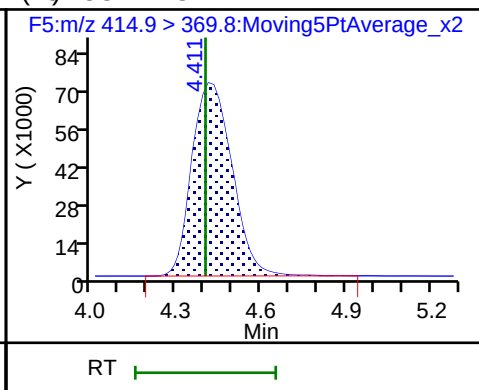
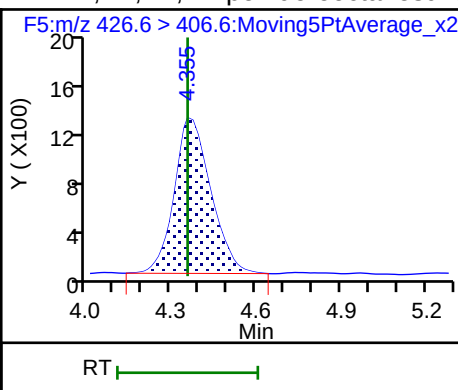
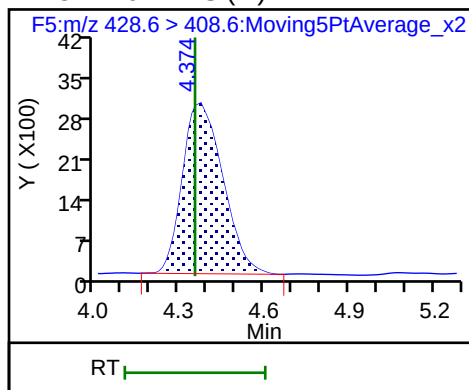
D 11 18O2 PFHxS



D 13 M2-6:2 FTS (M)

14 1H,1H,2H,2H-perfluorooctanesulfonate (M)

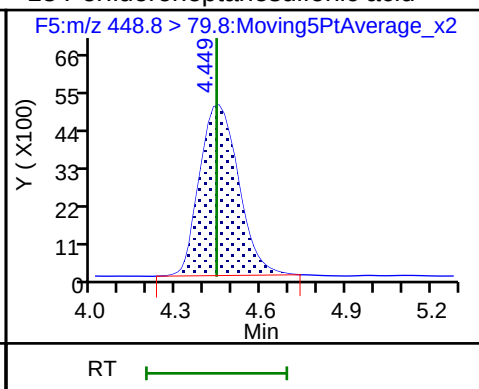
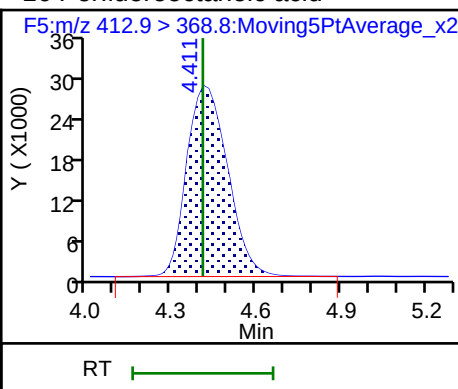
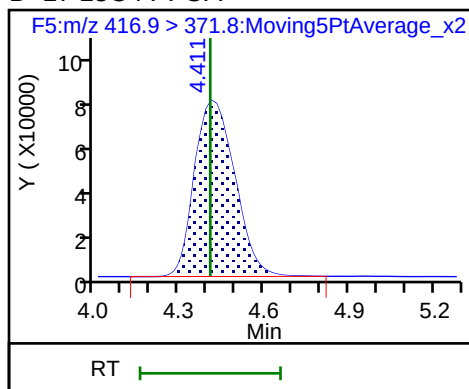
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

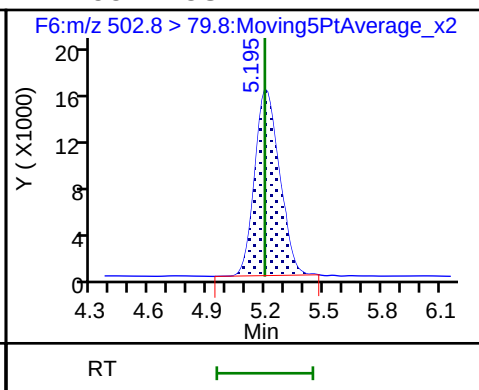
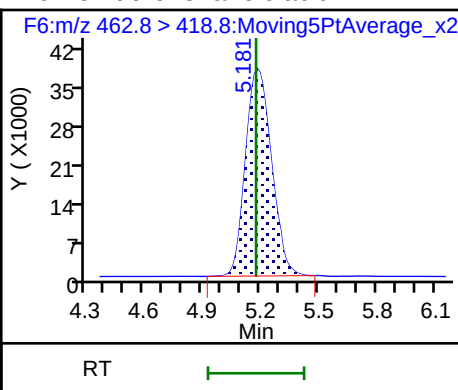
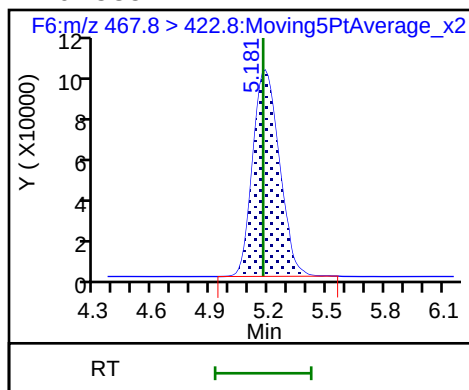
18 Perfluoroheptanesulfonic acid



D 20 13C5 PFNA

19 Perfluorononanoic acid

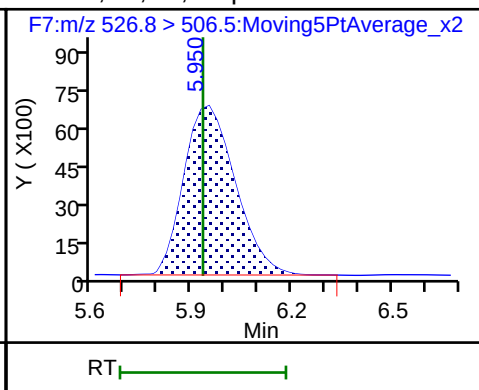
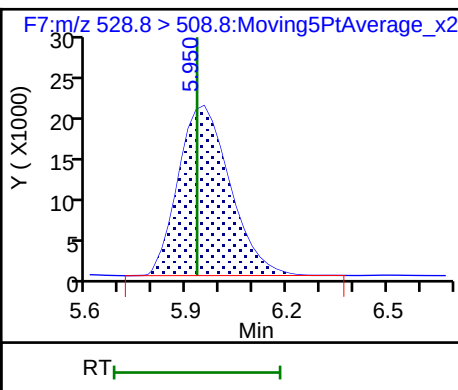
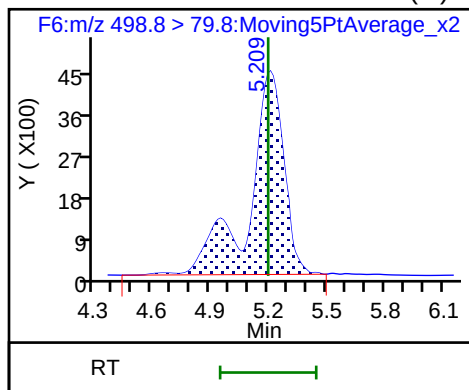
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

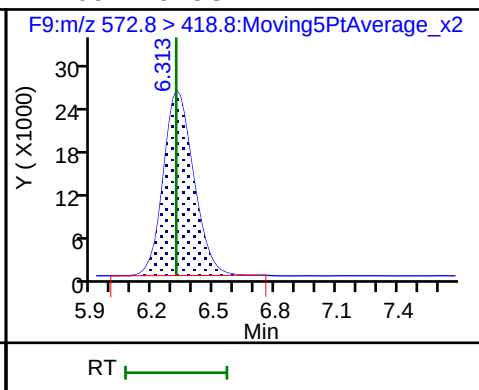
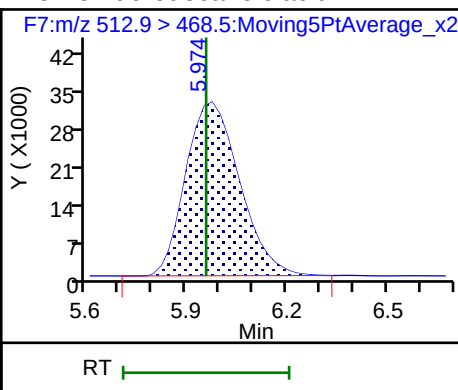
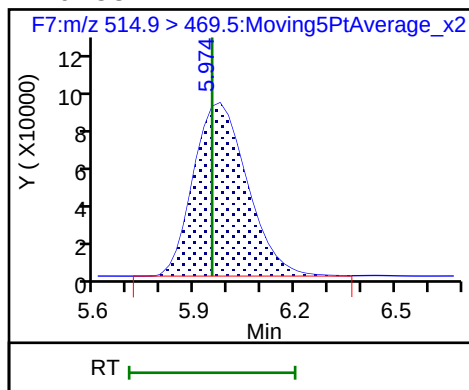
23 1H,1H,2H,2H-perfluorodecanesulfonate (M)



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

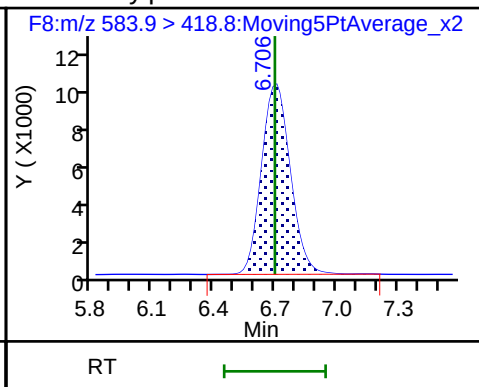
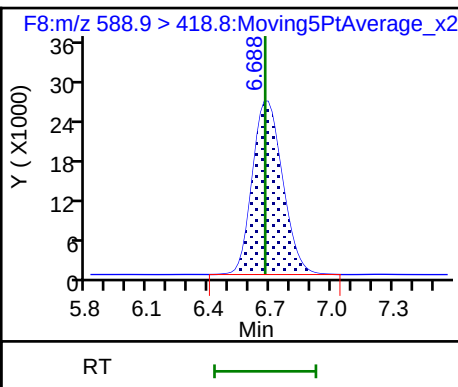
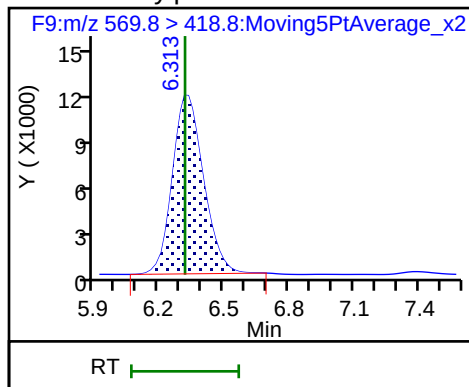
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamidD

## 29 d5-NEtFOSAA

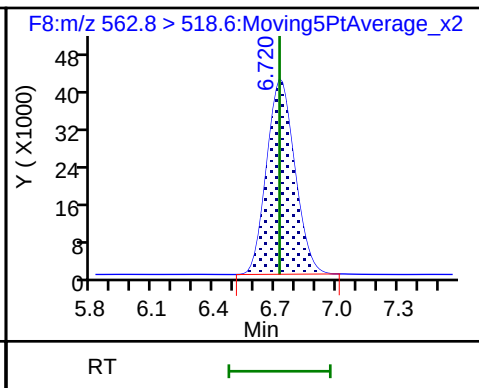
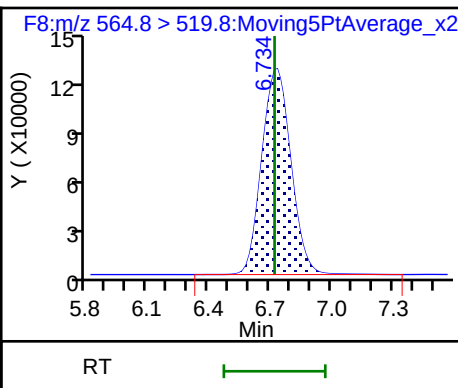
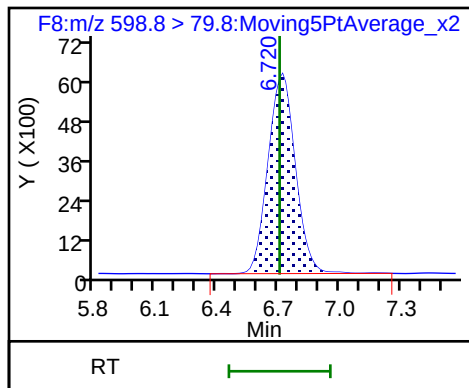
## 30 N-ethylperfluorooctanesulfonamidoa



## 31 Perfluorodecanesulfonic acid

## D 32 13C2 PFUnA

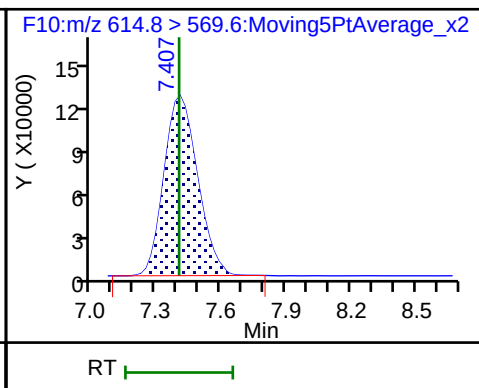
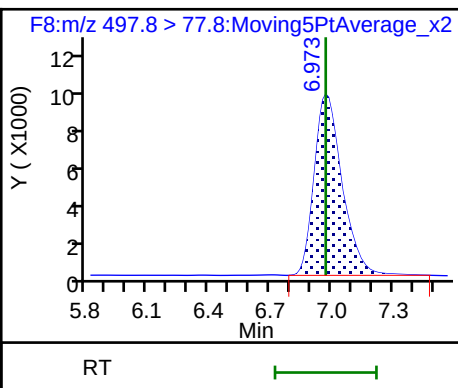
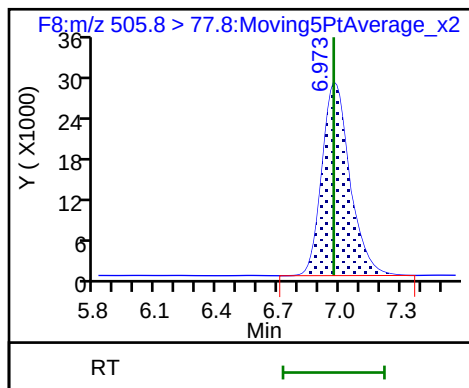
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

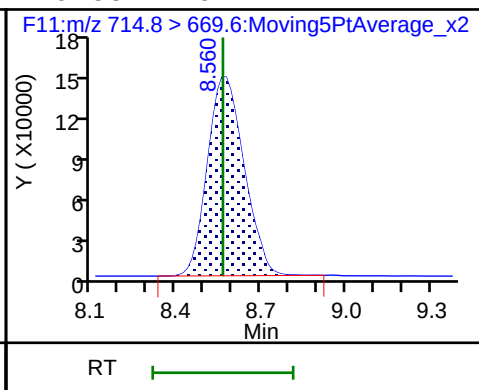
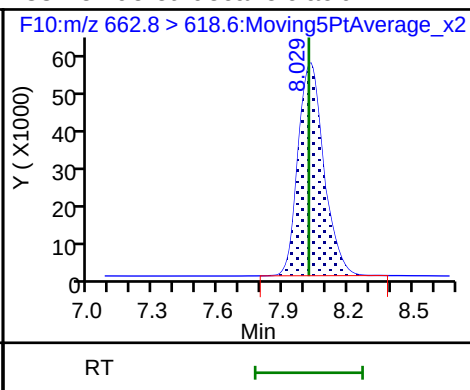
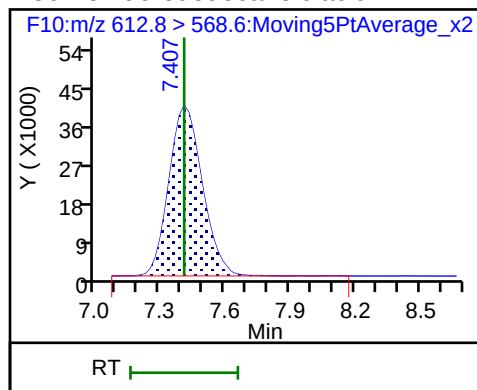
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

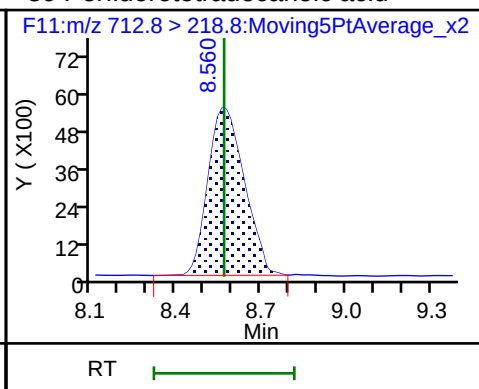
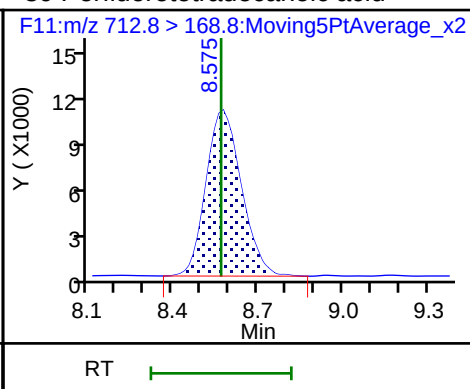
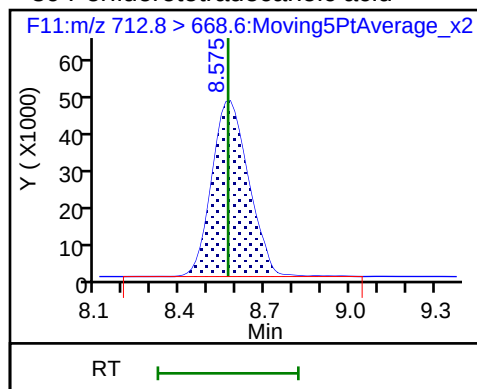
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

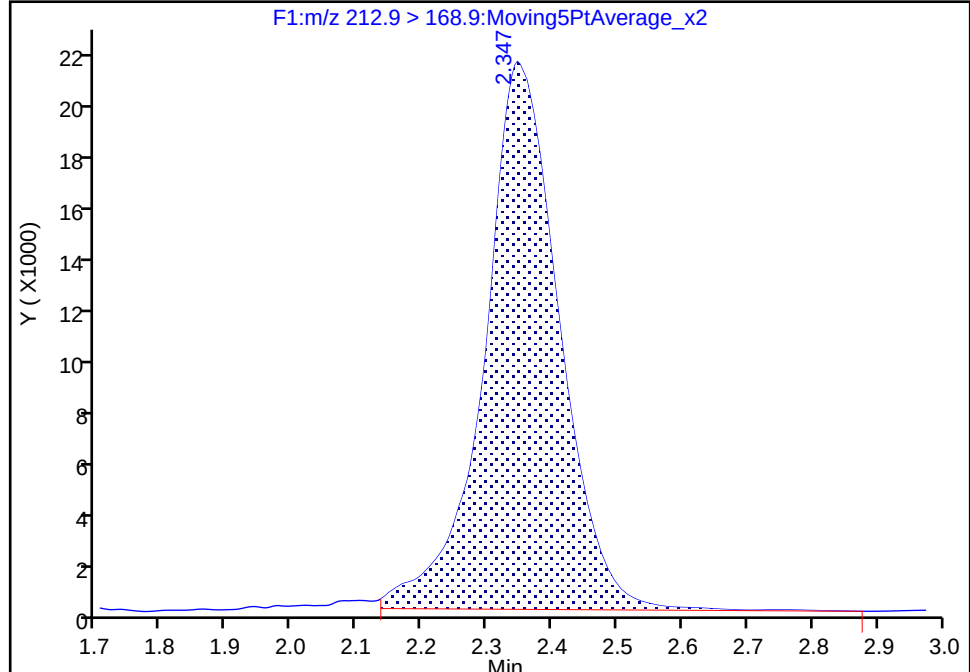
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Lims ID: ICV  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 16  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

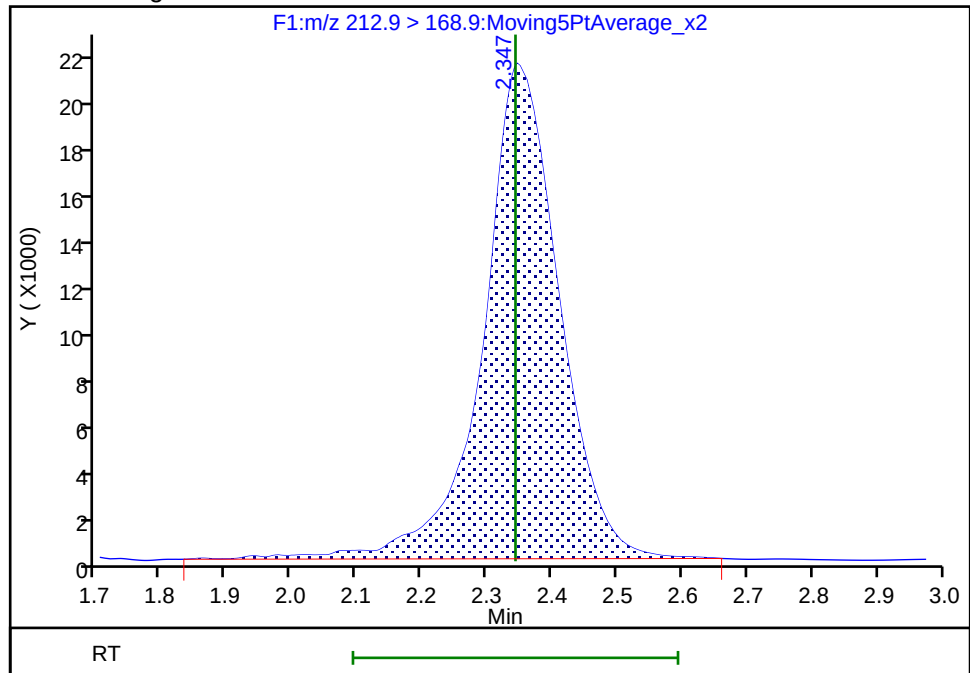
RT: 2.35  
Area: 167090  
Amount: 18.931767  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.35  
Area: 169768  
Amount: 19.627961  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 22:00:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

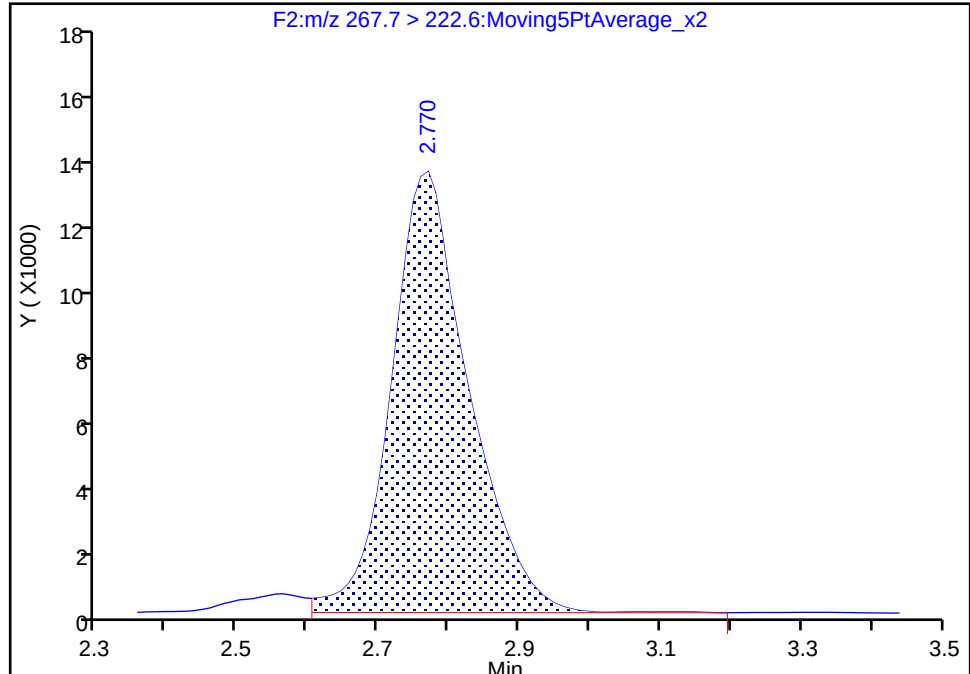
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Injection Date: 12-Oct-2018 20:07:38 Instrument ID: LC410  
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Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 16  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

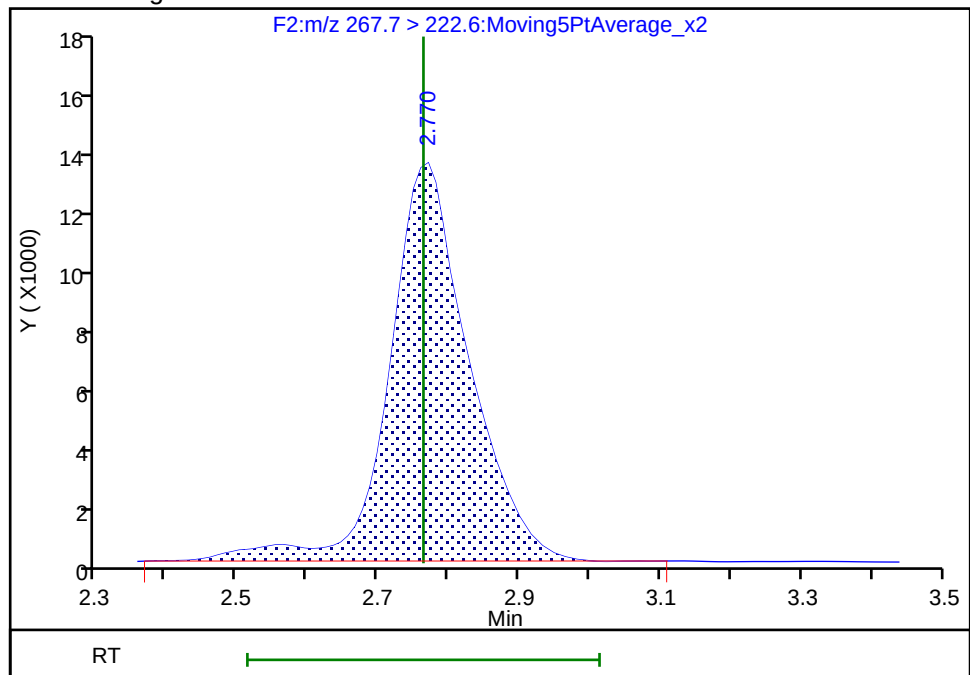
RT: 2.77  
Area: 99758  
Amount: 53.877899  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.77  
Area: 102614  
Amount: 55.420385  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 22:00:51  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

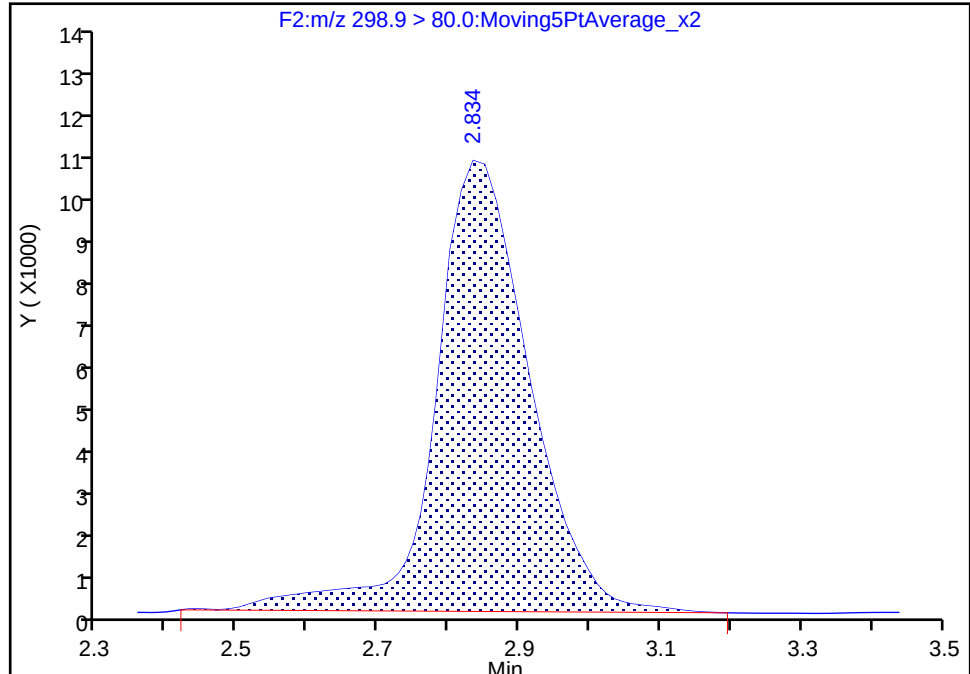
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Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 16  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

Signal: 1

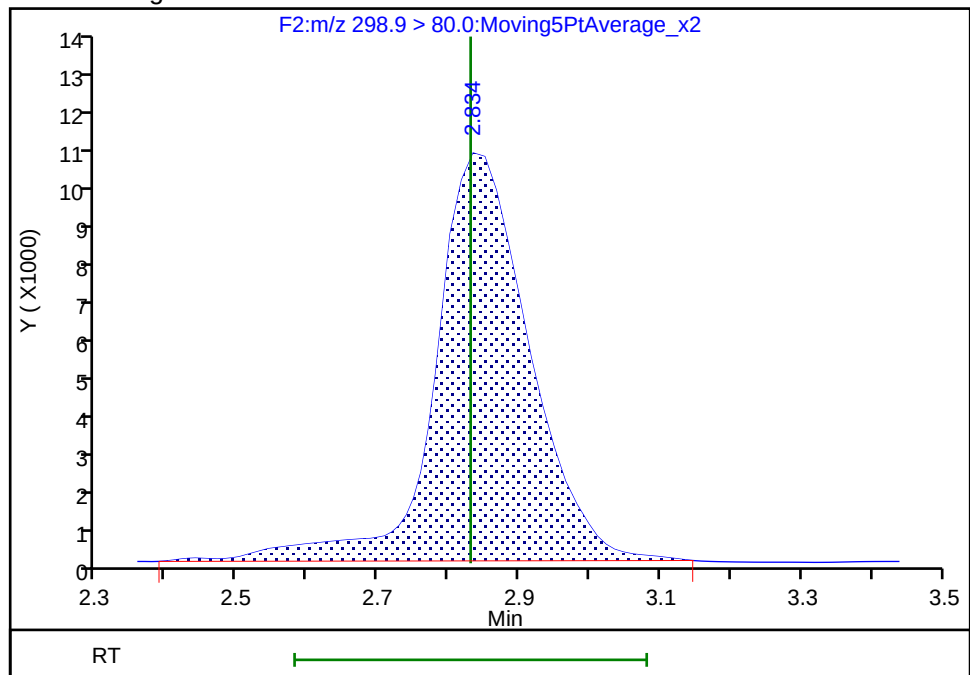
RT: 2.83  
Area: 98056  
Amount: 16.012392  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.83  
Area: 98689  
Amount: 16.115759  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 22:00:54  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

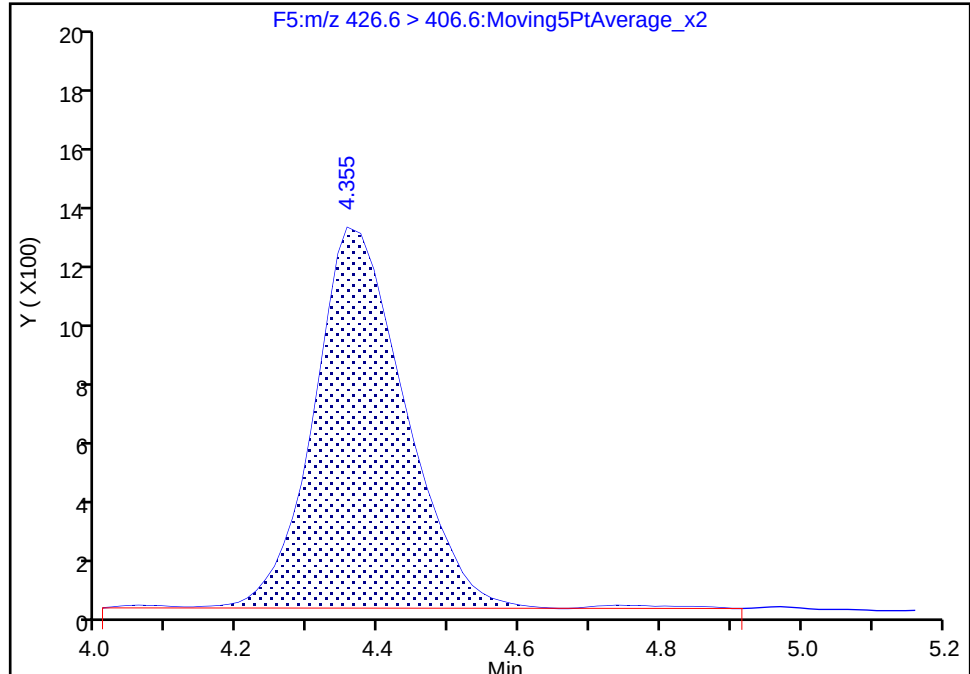
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Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 16  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F5:MRM

**14 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:, CAS: 27619-97-2**

Signal: 1

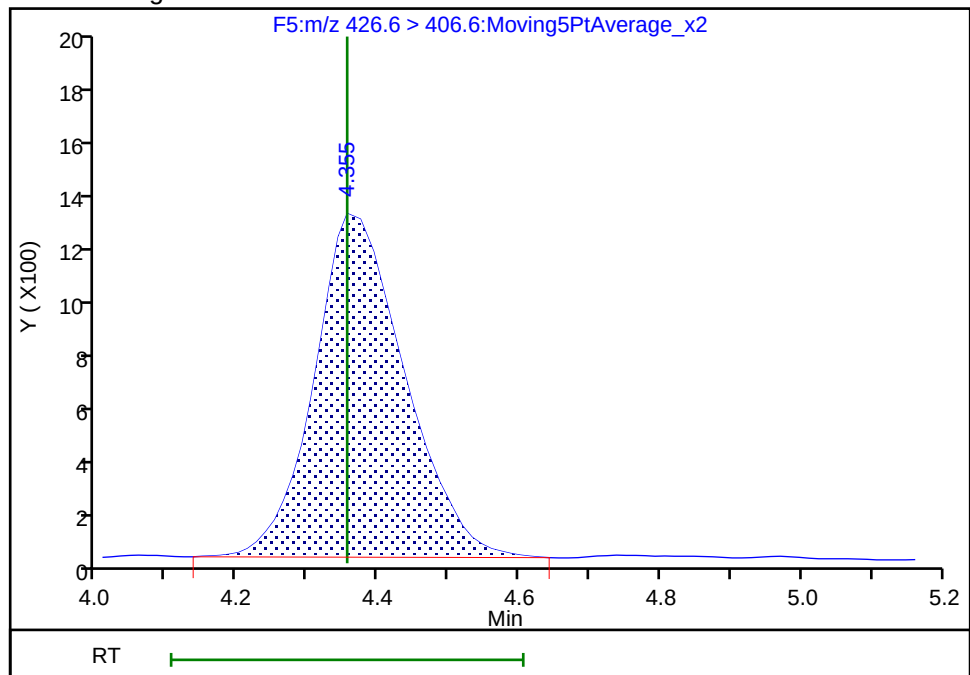
RT: 4.36  
Area: 11123  
Amount: 17.562256  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.36  
Area: 10969  
Amount: 17.474612  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 22:01:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

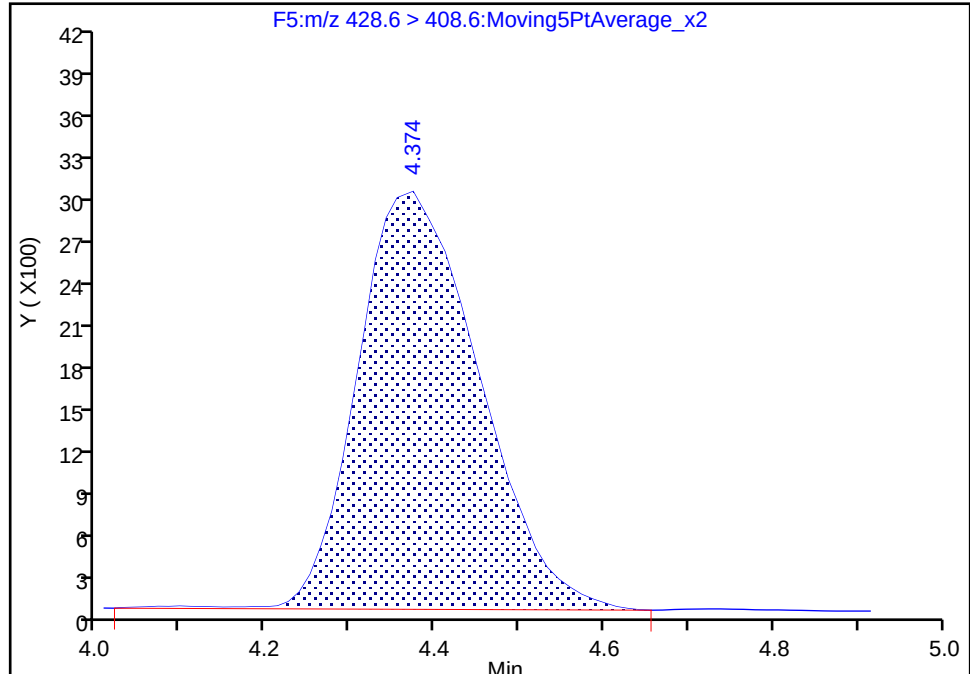
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Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 16  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F5:MRM

**D 13 M2-6:2 FTS, CAS: STL02279**

Signal: 1

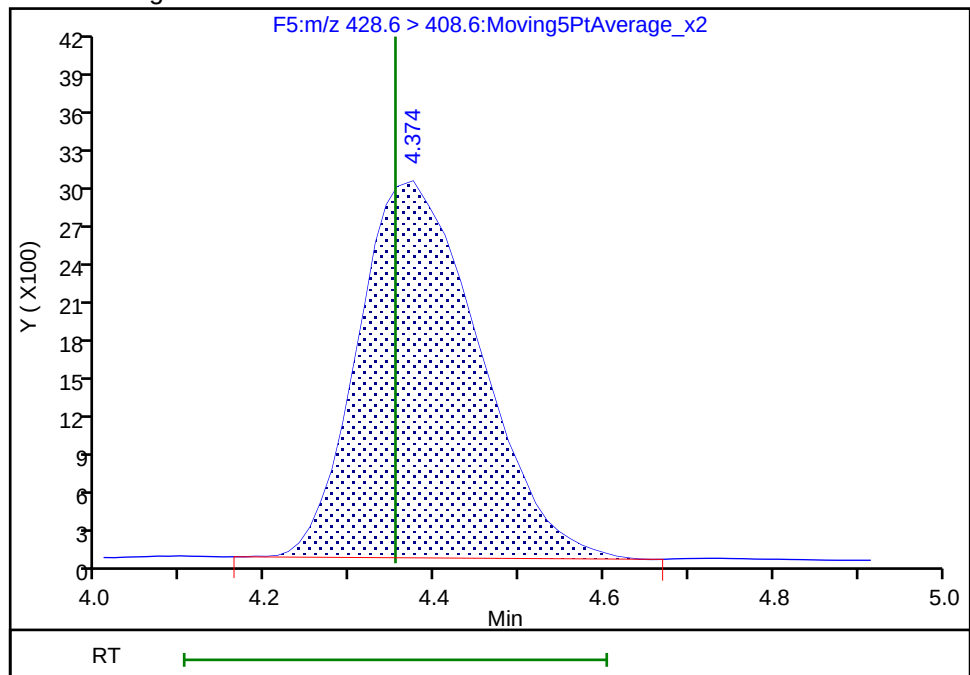
RT: 4.37  
Area: 29104  
Amount: 48.828375  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.37  
Area: 28845  
Amount: 48.393845  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 22:01:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A16.d

Injection Date: 12-Oct-2018 20:07:38

Instrument ID: LC410

Lims ID: ICV

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 16

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

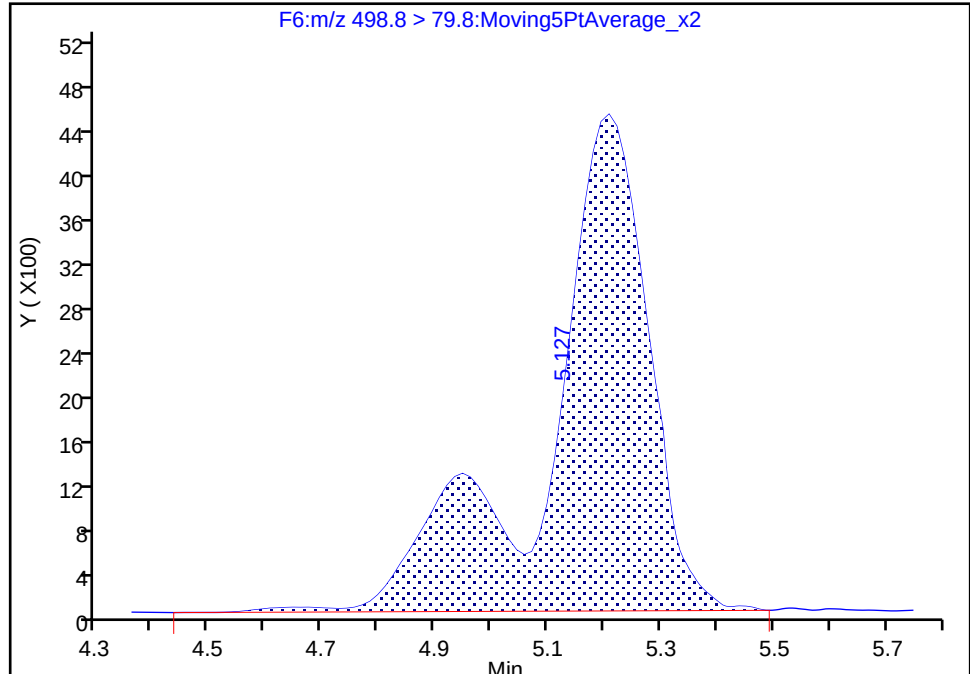
Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

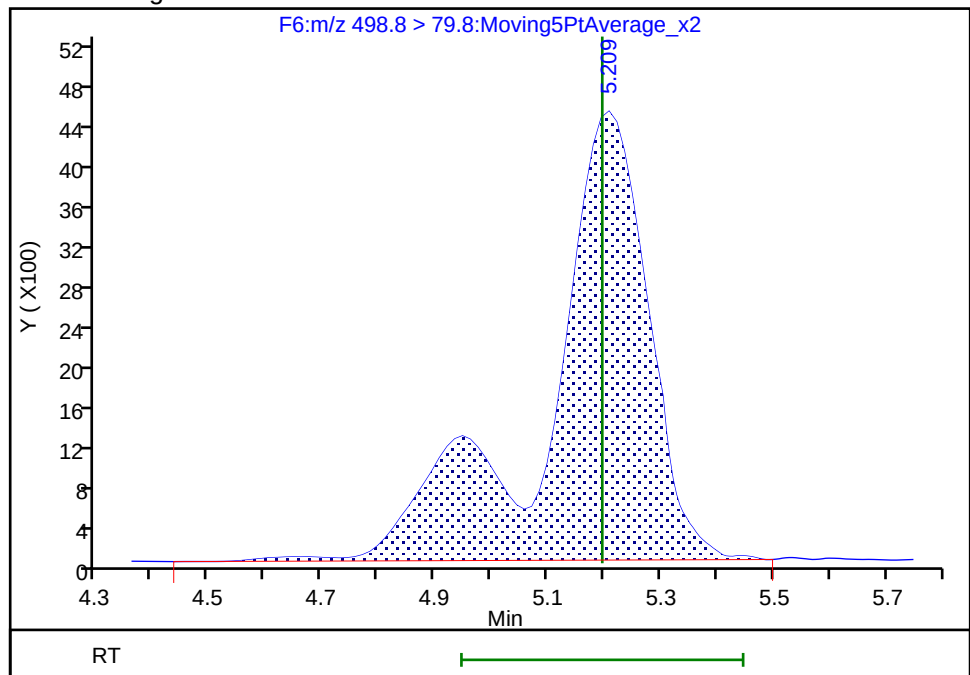
RT: 5.13  
Area: 55318  
Amount: 18.437642  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.21  
Area: 55290  
Amount: 18.428310  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 12-Oct-2018 22:01:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCV 200-135180/28 Calibration Date: 10/12/2018 23:18

Instrument ID: LC410 Calib Start Date: 10/12/2018 17:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 10/12/2018 19:35

Lab File ID: PF101218A28.d Conc. Units: ng/L

| ANALYTE                                                  | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|----------------------------------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Perfluorobutanoic acid (PFBA)                            | AveID      | 0.9581  | 1.167  |         | 24370       | 20000        | 21.9  | 40.0   |
| Perfluoropentanoic acid (PFPeA)                          | AveID      | 6.771   | 7.124  |         | 21040       | 20000        | 5.2   | 40.0   |
| Perfluorobutanesulfonic acid (PFBS)                      | AveID      | 2.033   | 2.184  |         | 21480       | 20000        | 7.4   | 40.0   |
| Perfluorohexanoic acid (PFHxA)                           | AveID      | 1.063   | 1.118  |         | 21040       | 20000        | 5.2   | 40.0   |
| Perfluoroheptanoic acid (PFHpA)                          | AveID      | 1.005   | 0.9814 |         | 19530       | 20000        | -2.3  | 40.0   |
| Perfluorohexanesulfonic acid (PFHxS)                     | AveID      | 1.866   | 1.974  |         | 21160       | 20000        | 5.8   | 40.0   |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | AveID      | 1.034   | 0.9823 |         | 19010       | 20000        | -5.0  | 40.0   |
| Perfluorooctanoic acid (PFOA)                            | AveID      | 1.047   | 1.051  |         | 20070       | 20000        | 0.4   | 40.0   |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | AveID      | 0.8790  | 0.8950 |         | 20360       | 20000        | 1.8   | 50.0   |
| Perfluorononanoic acid (PFNA)                            | L1ID       |         | 1.056  |         | 19440       | 20000        | -2.8  | 40.0   |
| Perfluorooctanesulfonic acid (PFOS)                      | AveID      | 1.033   | 1.055  |         | 20430       | 20000        | 2.1   | 40.0   |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | AveID      | 0.7190  | 0.7493 |         | 20840       | 20000        | 4.2   | 40.0   |
| Perfluorodecanoic acid (PFDA)                            | L1ID       |         | 1.006  |         | 20210       | 20000        | 1.1   | 40.0   |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | AveID      | 1.056   | 1.035  |         | 19600       | 20000        | -2.0  | 40.0   |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | AveID      | 0.9829  | 0.9943 |         | 20230       | 20000        | 1.2   | 40.0   |
| Perfluorodecanesulfonic acid (PFDS)                      | AveID      | 1.140   | 1.052  |         | 18460       | 20000        | -7.7  | 50.0   |
| Perfluoroundecanoic acid (PFUnA)                         | AveID      | 0.8859  | 0.8238 |         | 18600       | 20000        | -7.0  | 40.0   |
| Perfluorooctanesulfonamide (PFOSA)                       | AveID      | 0.8579  | 0.9162 |         | 21360       | 20000        | 6.8   | 40.0   |
| Perfluorododecanoic acid (PFDoA)                         | AveID      | 0.8649  | 0.9453 |         | 21860       | 20000        | 9.3   | 40.0   |
| Perfluorotridecanoic acid (PFTrIA)                       | AveID      | 0.9306  | 0.7663 |         | 16470       | 20000        | -17.7 | 50.0   |
| Perfluorotetradecanoic acid (PFTeA)                      | AveID      | 0.9779  | 0.9692 |         | 19820       | 20000        | -0.9  | 40.0   |
| 13C4 PFBA                                                | Ave        | 0.5391  | 0.4193 |         | 38880       | 50000        | -22.2 | 50.0   |
| 13C5 PFPeA                                               | Ave        | 0.1293  | 0.1002 |         | 38740       | 50000        | -22.5 | 50.0   |
| 13C3 PFBS                                                | Ave        | 0.1892  | 0.1415 |         | 34770       | 46500        | -25.2 | 50.0   |
| 13C2 PFHxA                                               | Ave        | 0.3939  | 0.2897 |         | 36760       | 50000        | -26.5 | 50.0   |
| 13C4 PFHpA                                               | Ave        | 1.153   | 1.098  |         | 47610       | 50000        | -4.8  | 50.0   |
| 18O2 PFHxS                                               | Ave        | 0.2281  | 0.1765 |         | 36590       | 47300        | -22.6 | 50.0   |
| M2-6:2 FTS                                               | Ave        | 0.0416  | 0.0334 |         | 38140       | 47500        | -19.7 | 50.0   |
| 13C4 PFOA                                                | Ave        | 0.9256  | 0.9127 |         | 49300       | 50000        | -1.4  | 50.0   |
| 13C5 PFNA                                                | Ave        | 1.184   | 1.171  |         | 49460       | 50000        | -1.1  | 50.0   |
| 13C4 PFOS                                                | Ave        | 0.1912  | 0.1489 |         | 37230       | 47800        | -22.1 | 50.0   |
| M2-8:2 FTS                                               | Ave        | 0.3129  | 0.3522 |         | 53910       | 47900        | 12.6  | 50.0   |

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-135180/28 Calibration Date: 10/12/2018 23:18  
 Instrument ID: LC410 Calib Start Date: 10/12/2018 17:29  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 10/12/2018 19:35  
 Lab File ID: PF101218A28.d Conc. Units: ng/L

| ANALYTE     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|-------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| 13C2 PFDA   | Ave           | 1.298   | 1.312  |         | 50530          | 50000           | 1.1   | 50.0      |
| d3-NMeFOSAA | Ave           | 0.3656  | 0.3621 |         | 49530          | 50000           | -0.9  | 50.0      |
| d5-NEtFOSAA | Ave           | 0.3175  | 0.3263 |         | 51390          | 50000           | 2.8   | 50.0      |
| 13C2 PFUnA  | Ave           | 1.488   | 1.545  |         | 51940          | 50000           | 3.9   | 50.0      |
| 13C8 FOSA   | Ave           | 0.3392  | 0.2379 |         | 35070          | 50000           | -29.9 | 50.0      |
| 13C2 PFDoA  | Ave           | 1.630   | 1.492  |         | 45770          | 50000           | -8.5  | 50.0      |
| 13C2 PFTeDA | Ave           | 1.584   | 1.212  |         | 38260          | 50000           | -23.5 | 50.0      |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A28.d  
 Lims ID: CCV L4  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 12-Oct-2018 23:18:23 ALS Bottle#: 0 Worklist Smp#: 28  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-028 CCV L4  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:47:59 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 09:29:00

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |           |           |           |          |                 |               |      |      | M     |
| 216.9 > 171.5                         | 2.343 | 2.326     | 0.017     | 1.000     | 359829   | 38.9            |               | 77.8 | 963  | M     |
| 2 Perfluorobutanoic acid              |       |           |           |           |          |                 |               |      |      | M     |
| 212.9 > 168.9                         | 2.343 | 2.344     | -0.001    | 1.000     | 168037   | 24.4            |               | 122  | 528  | M     |
| D 3 13C5 PFPeA                        |       |           |           |           |          |                 |               |      |      | M     |
| 267.7 > 222.6                         | 2.750 | 2.763     | -0.013    | 1.000     | 85993    | 38.7            |               | 77.5 | 484  | M     |
| 4 Perfluoropentanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 262.9 > 218.8                         | 2.760 | 2.763     | -0.003    | 1.004     | 245041   | 21.0            |               | 105  | 288  |       |
| D 6 13C3 PFBS                         |       |           |           |           |          |                 |               |      |      | M     |
| 302.0 > 79.8                          | 2.818 | 2.829     | -0.011    | 1.000     | 112945   | 34.8            |               | 74.8 | 303  | M     |
| 5 Perfluorobutanesulfonic acid        |       |           |           |           |          |                 |               |      |      | M     |
| 298.9 > 80.0                          | 2.818 | 2.830     | -0.012    | 1.000     | 106086   | 21.5            |               | 107  | 386  | M     |
| D 7 13C2 PFHxA                        |       |           |           |           |          |                 |               |      |      | M     |
| 314.8 > 269.6                         | 3.177 | 3.188     | -0.011    | 1.000     | 248595   | 36.8            |               | 73.5 | 455  | M     |
| 8 Perfluorohexanoic acid              |       |           |           |           |          |                 |               |      |      |       |
| 312.8 > 268.6                         | 3.177 | 3.189     | -0.012    | 1.000     | 111152   | 21.0            |               | 105  | 997  |       |
| D 9 13C4 PFHpA                        |       |           |           |           |          |                 |               |      |      |       |
| 366.9 > 321.8                         | 3.703 | 3.725     | -0.022    | 1.000     | 942457   | 47.6            |               | 95.2 | 2967 |       |
| 10 Perfluoroheptanoic acid            |       |           |           |           |          |                 |               |      |      |       |
| 362.9 > 318.8                         | 3.703 | 3.728     | -0.025    | 1.000     | 369964   | 19.5            |               | 97.7 | 1121 |       |
| 12 Perfluorohexanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 399.0 > 80.0                          | 3.737 | 3.769     | -0.032    | 0.997     | 119587   | 21.2            |               | 106  | 594  |       |
| D 11 18O2 PFHxS                       |       |           |           |           |          |                 |               |      |      |       |
| 402.9 > 83.8                          | 3.748 | 3.770     | -0.022    | 1.000     | 143283   | 36.6            |               | 77.4 | 365  |       |
| D 13 M2-6:2 FTS                       |       |           |           |           |          |                 |               |      |      |       |
| 428.6 > 408.6                         | 4.330 | 4.353     | -0.023    | 1.000     | 27259    | 38.1            |               | 80.3 | 315  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |           |           |           |          |                 |               |      |      |       |
| 426.6 > 406.6                         | 4.330 | 4.355     | -0.025    | 1.000     | 14274    | 19.0            |               | 95.0 | 129  |       |



| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| * 15 13C2 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                         | 4.374 | 4.401  | -0.027 |        | 858264   | 50.0         |               |      | 2119 |       |
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                         | 4.355 | 4.407  | -0.052 | 1.000  | 783335   | 49.3         |               | 98.6 | 1501 |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 412.9 > 368.8                         | 4.355 | 4.409  | -0.054 | 1.000  | 329200   | 20.1         |               | 100  | 1290 |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |      |      |       |
| 448.8 > 79.8                          | 4.393 | 4.441  | -0.048 | 0.855  | 45761    | 20.4         |               | 102  | 463  |       |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |      |      |       |
| 467.8 > 422.8                         | 5.127 | 5.171  | -0.044 | 1.000  | 1005325  | 49.5         |               | 98.9 | 1993 |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 462.8 > 418.8                         | 5.127 | 5.175  | -0.048 | 1.000  | 424538   | 19.4         |               | 97.2 | 958  |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |      |      |       |
| 502.8 > 79.8                          | 5.140 | 5.195  | -0.055 | 1.000  | 122199   | 37.2         |               | 77.9 | 503  |       |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 498.8 > 79.8                          | 5.140 | 5.197  | -0.057 | 1.000  | 53935    | 20.4         |               | 102  | 204  | M     |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 528.8 > 508.8                         | 5.882 | 5.929  | -0.047 | 1.000  | 289593   | 53.9         |               | 113  | 1426 |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 526.8 > 506.5                         | 5.882 | 5.932  | -0.050 | 1.000  | 90598    | 20.8         |               | 104  | 537  |       |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |      |      |       |
| 514.9 > 469.5                         | 5.902 | 5.950  | -0.048 | 1.000  | 1125687  | 50.5         |               | 101  | 4102 |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 512.9 > 468.5                         | 5.902 | 5.956  | -0.054 | 1.000  | 452906   | 20.2         |               | 101  | 2235 |       |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 572.8 > 418.8                         | 6.259 | 6.311  | -0.052 | 1.000  | 310806   | 49.5         |               | 99.1 | 1398 |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |      |      |       |
| 569.8 > 418.8                         | 6.259 | 6.315  | -0.056 | 1.000  | 128632   | 19.6         |               | 98.0 | 373  |       |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 588.9 > 418.8                         | 6.616 | 6.674  | -0.058 | 1.000  | 280053   | 51.4         |               | 103  | 1040 |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |      |      |       |
| 583.9 > 418.8                         | 6.634 | 6.697  | -0.063 | 1.003  | 111377   | 20.2         |               | 101  | 1586 |       |
| 31 Perfluorodecanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 598.8 > 79.8                          | 6.652 | 6.706  | -0.054 | 1.294  | 53805    | 18.5         |               | 92.3 | 601  |       |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |      |      |       |
| 564.8 > 519.8                         | 6.670 | 6.720  | -0.050 | 1.000  | 1326368  | 51.9         |               | 104  | 4877 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 562.8 > 518.6                         | 6.670 | 6.720  | -0.050 | 1.000  | 437060   | 18.6         |               | 93.0 | 1178 |       |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |      |      |       |
| 505.8 > 77.8                          | 6.959 | 6.973  | -0.014 | 1.000  | 204193   | 35.1         |               | 70.1 | 1357 |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |               |      |      |       |
| 497.8 > 77.8                          | 6.959 | 6.973  | -0.014 | 1.000  | 74836    | 21.4         |               | 107  | 627  |       |
| D 37 13C2 PFDoA                       |       |        |        |        |          |              |               |      |      |       |
| 614.8 > 569.6                         | 7.339 | 7.402  | -0.063 | 1.000  | 1280492  | 45.8         |               | 91.5 | 2437 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 612.8 > 568.6                         | 7.339 | 7.407  | -0.068 | 1.000  | 484200   | 21.9         |               | 109  | 2281 |       |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |      |      |       |
| 662.8 > 618.6                         | 7.953 | 8.020  | -0.067 | 0.936  | 318900   | 16.5         |               | 82.3 | 437  |       |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A28.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.499 | 8.563     | -0.064    | 1.000     | 1040474  | 38.3            |                 | 76.5 | 783  |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      |       |
| 712.8 > 668.6                  | 8.499 | 8.567     | -0.068    | 1.000     | 403360   | 19.8            |                 | 99.1 | 1830 |       |
| 712.8 > 168.8                  | 8.514 | 8.567     | -0.053    | 1.002     | 73561    |                 | 5.48(0.00-0.00) |      | 279  |       |
| 712.8 > 218.8                  | 8.499 | 8.567     | -0.068    | 1.000     | 44555    |                 | 9.05(0.00-0.00) |      | 233  |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L4\_00001

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A28.d

Injection Date: 12-Oct-2018 23:18:23

Instrument ID: LC410

Lims ID: CCV L4

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 28

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

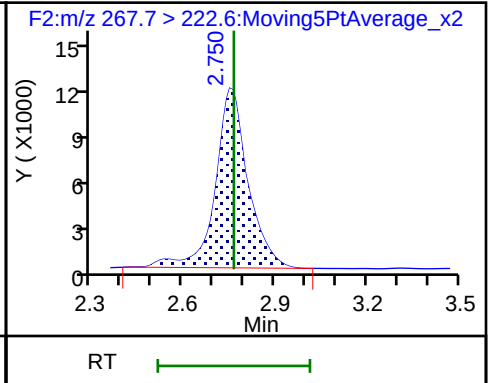
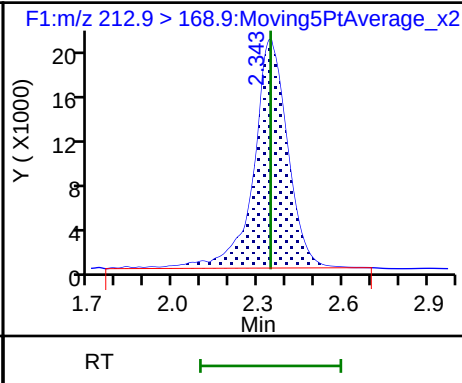
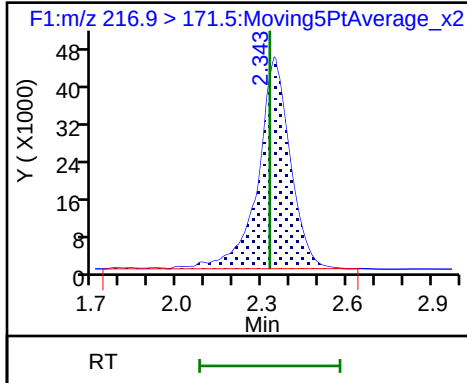
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

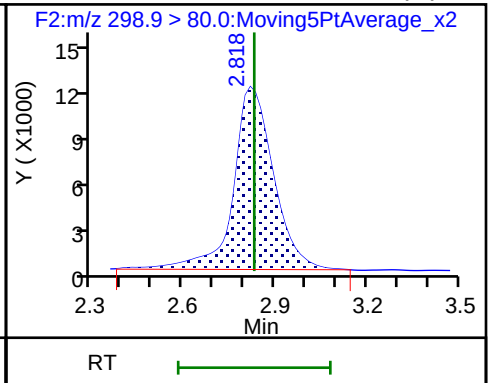
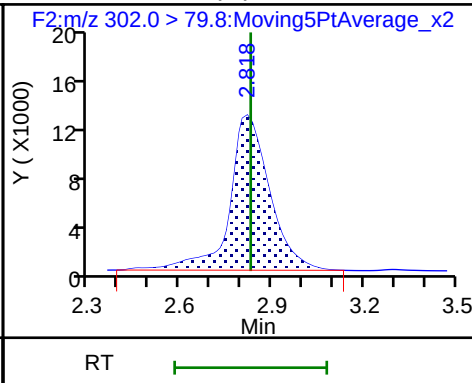
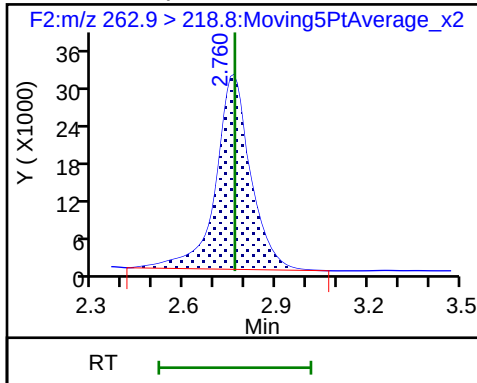
D 3 13C5 PFPeA (M)



4 Perfluoropentanoic acid

D 6 13C3 PFBS (M)

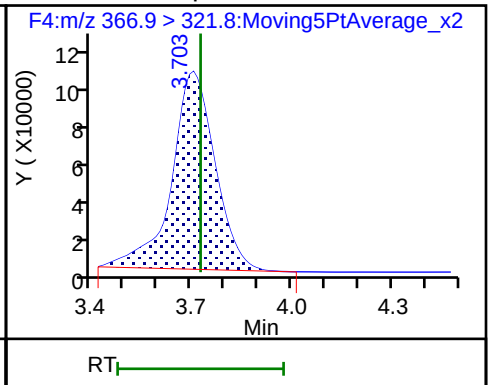
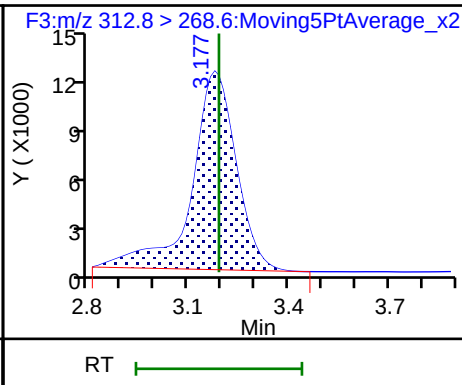
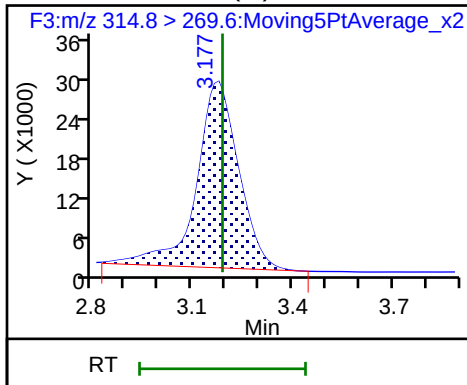
5 Perfluorobutanesulfonic acid (M)



D 7 13C2 PFHxA (M)

8 Perfluorohexanoic acid

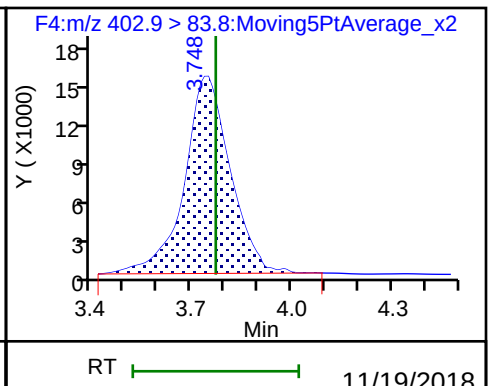
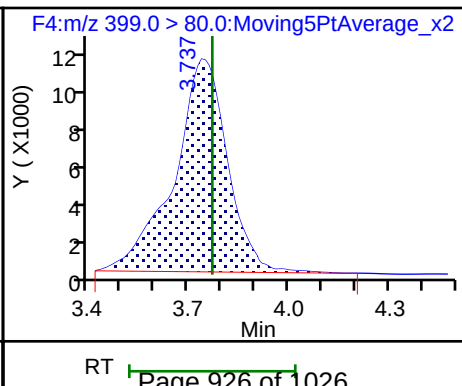
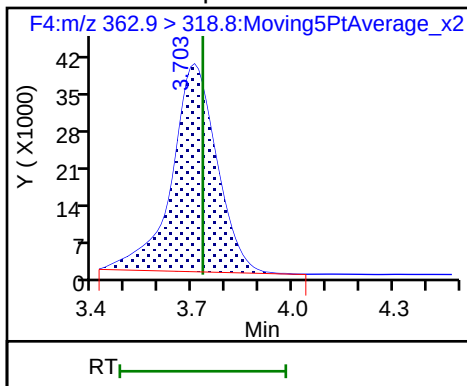
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

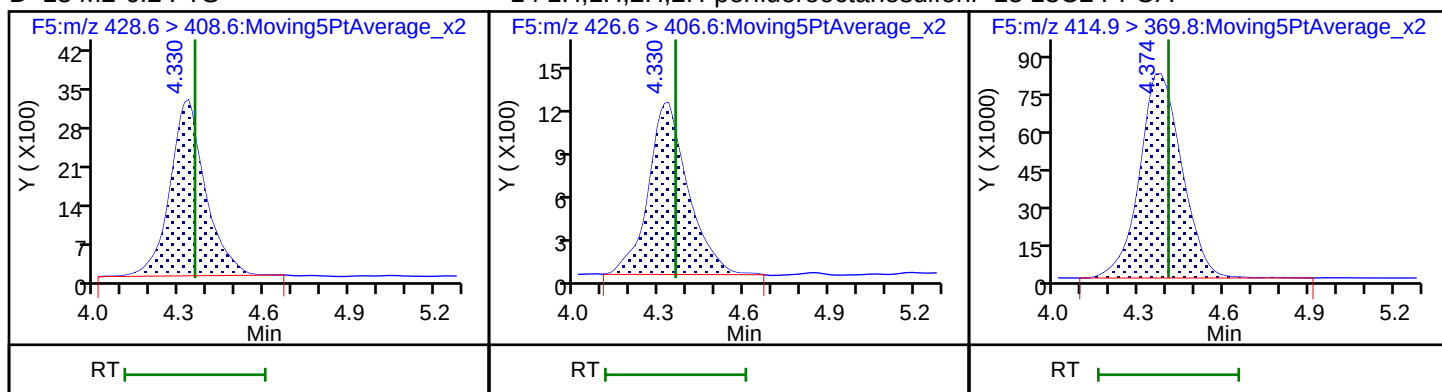
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

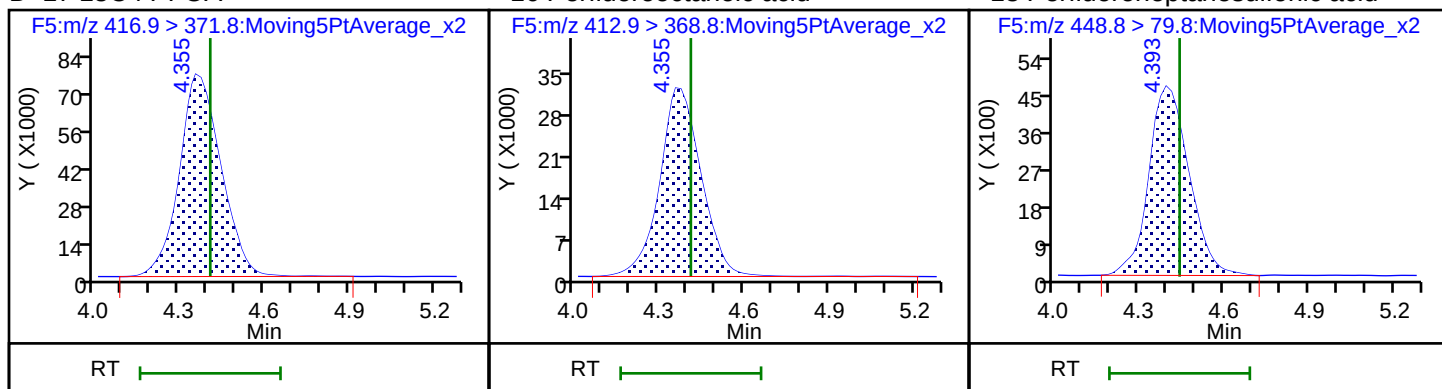
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

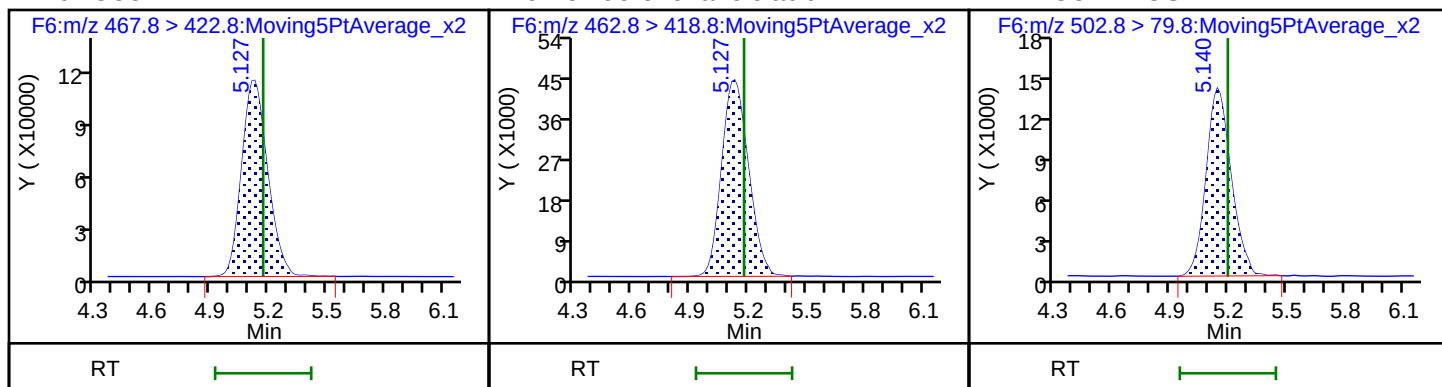
18 Perfluoroheptanesulfonic acid



D 20 13C5 PFNA

19 Perfluorononanoic acid

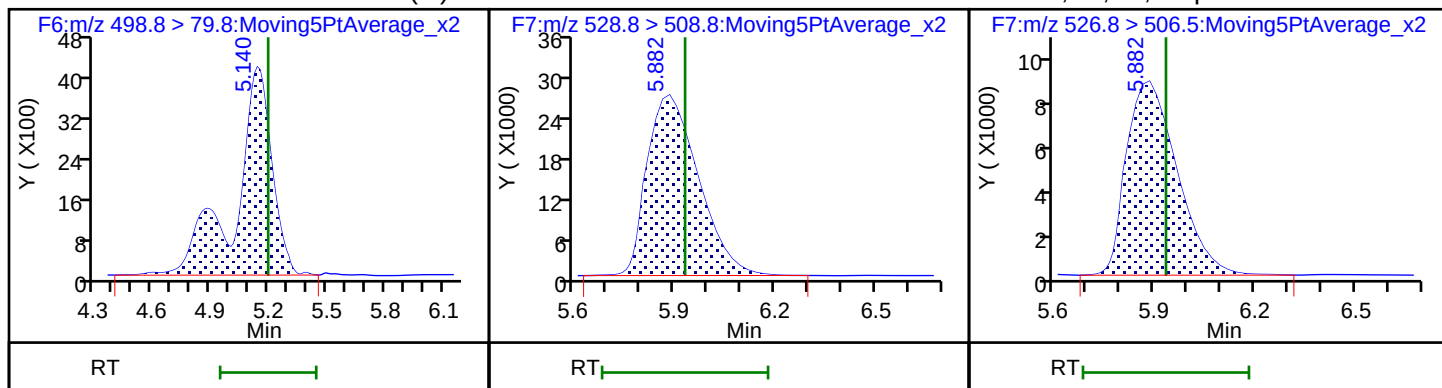
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

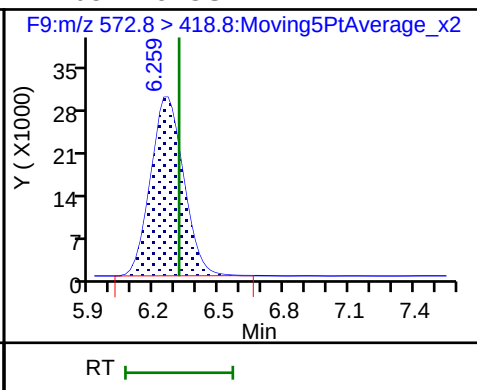
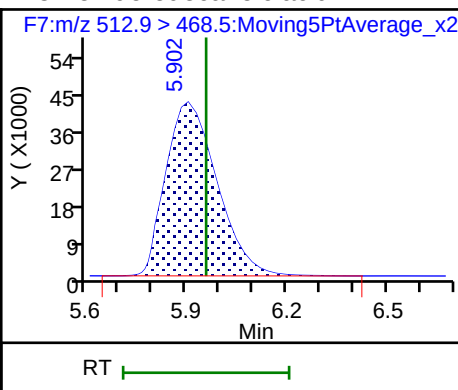
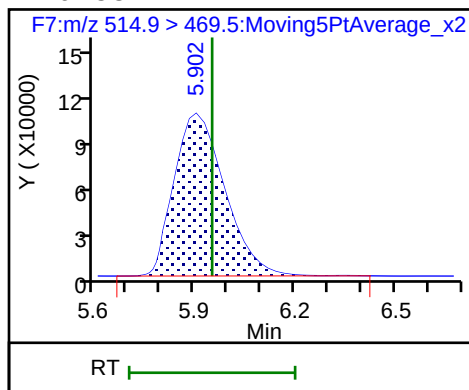
23 1H,1H,2H,2H-perfluorodecanesulfonate



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

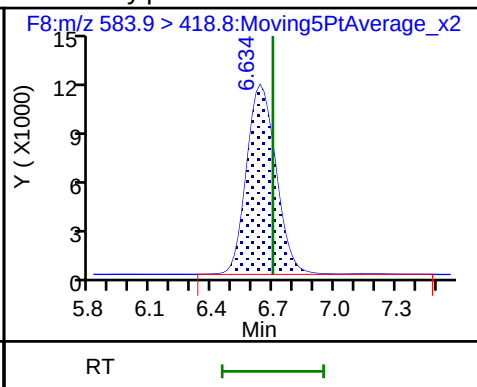
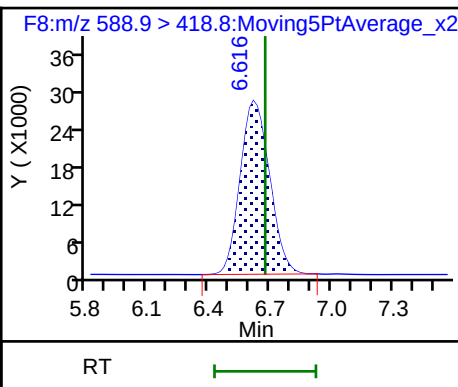
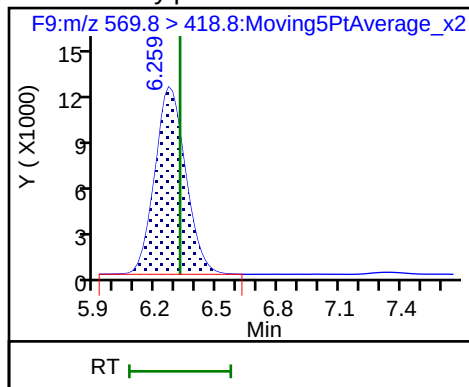
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamid

## D 29 d5-NEtFOSAA

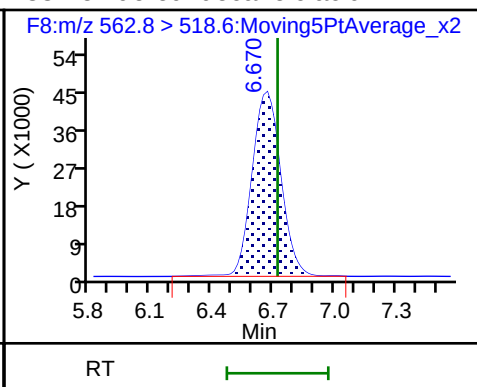
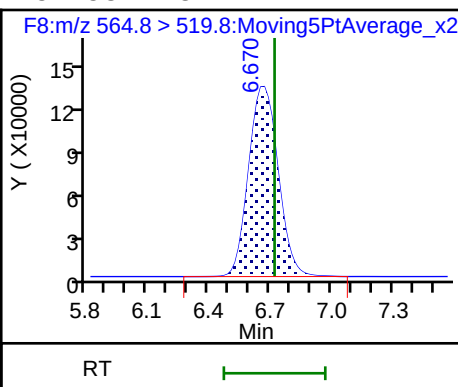
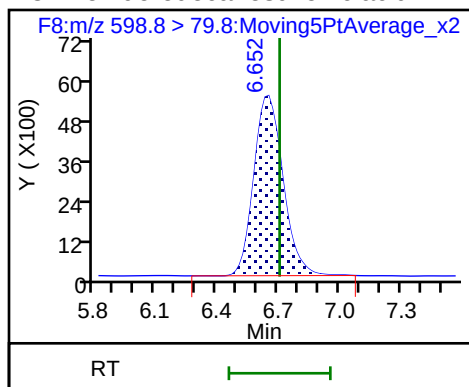
## 30 N-ethylperfluorooctanesulfonamidoa



## 31 Perfluorodecanesulfonic acid

## D 32 13C2 PFUnA

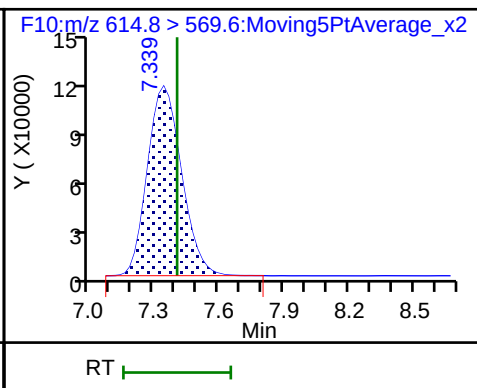
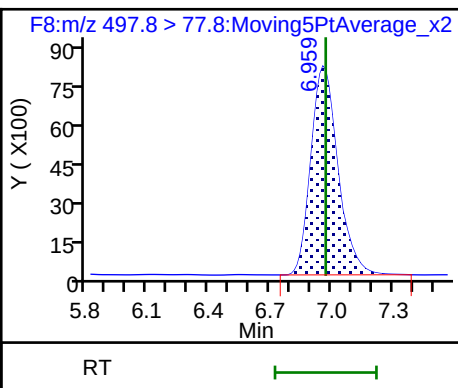
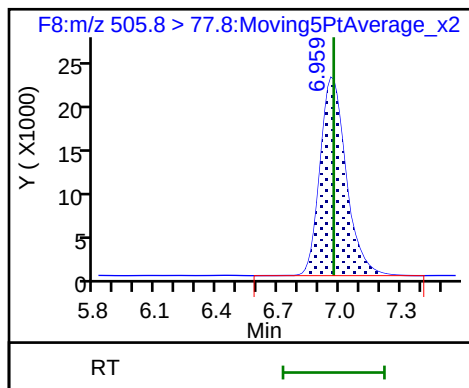
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

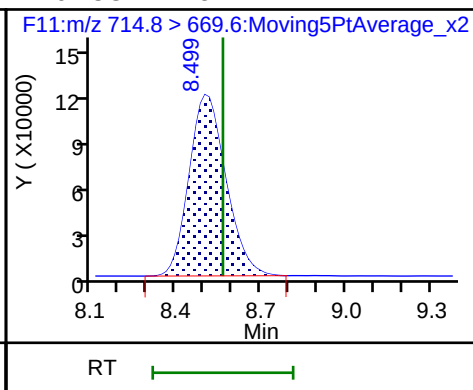
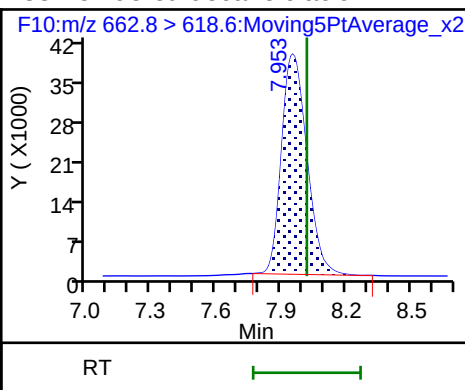
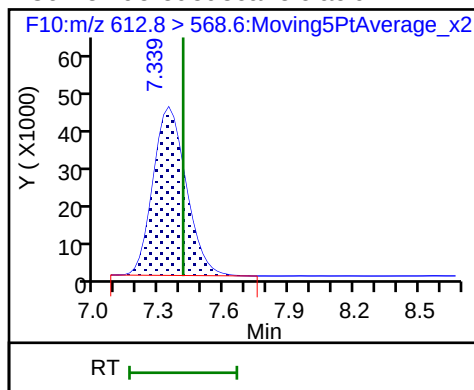
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

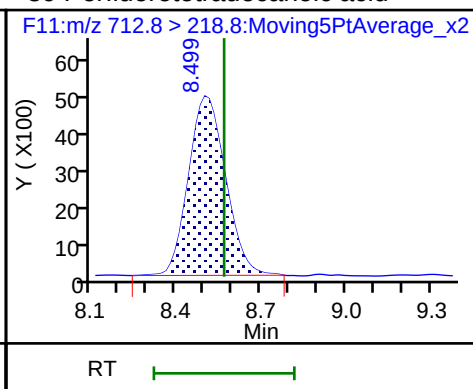
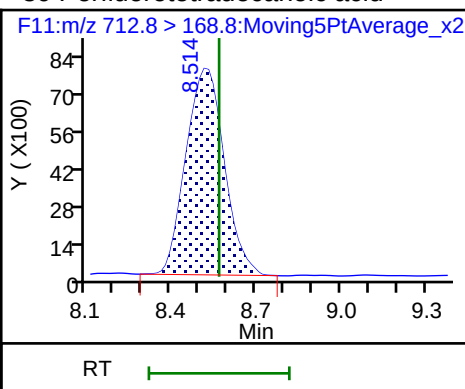
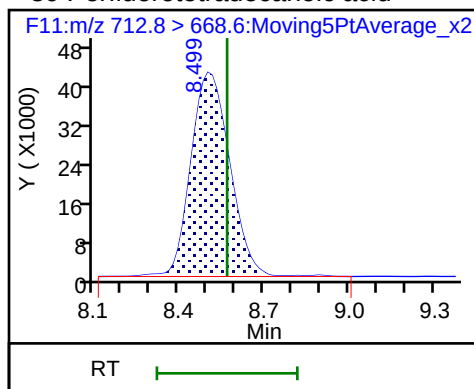
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A28.d

Injection Date: 12-Oct-2018 23:18:23

Instrument ID: LC410

Lims ID: CCV L4

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 28

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

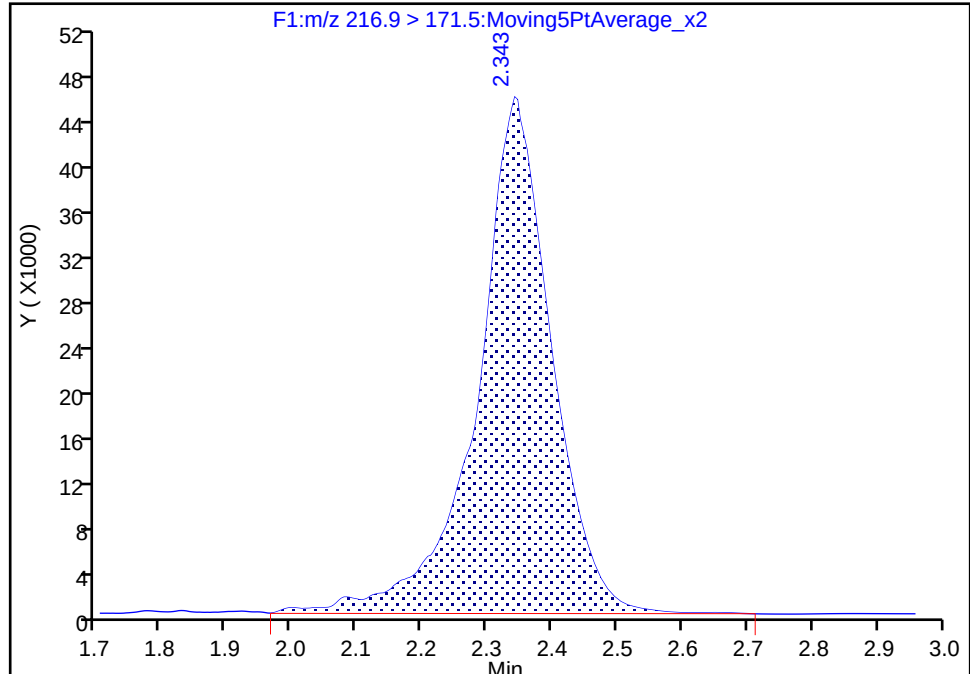
Detector F1:MRM

**D 1 13C4 PFBA, CAS: STL00992**

Signal: 1

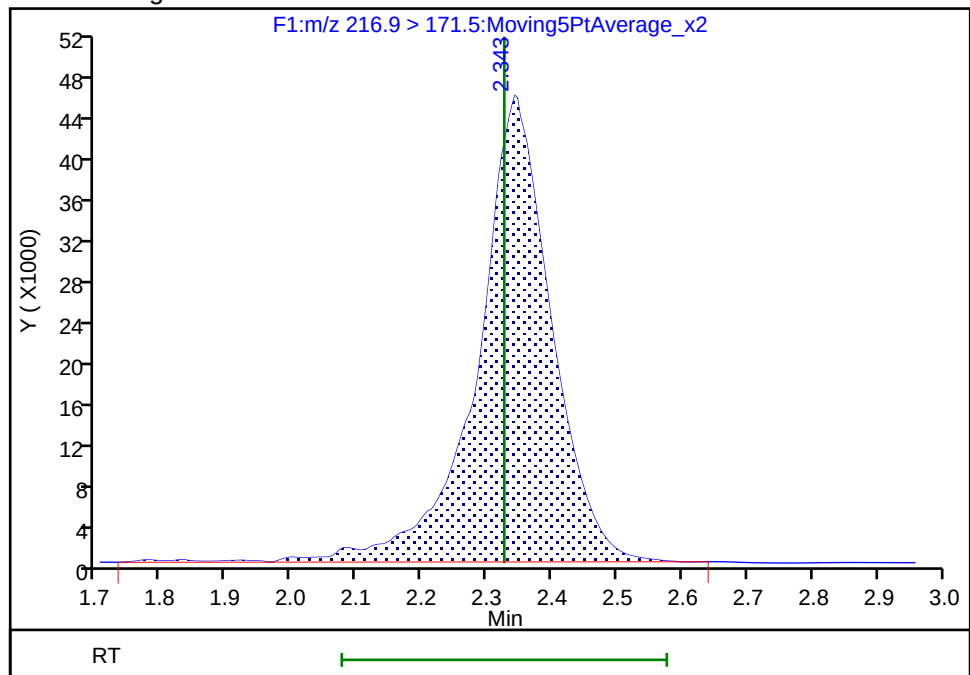
RT: 2.34  
Area: 360295  
Amount: 38.932717  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.34  
Area: 359829  
Amount: 38.882362  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 09:28:00

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A28.d

Injection Date: 12-Oct-2018 23:18:23

Instrument ID: LC410

Lims ID: CCV L4

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 28

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

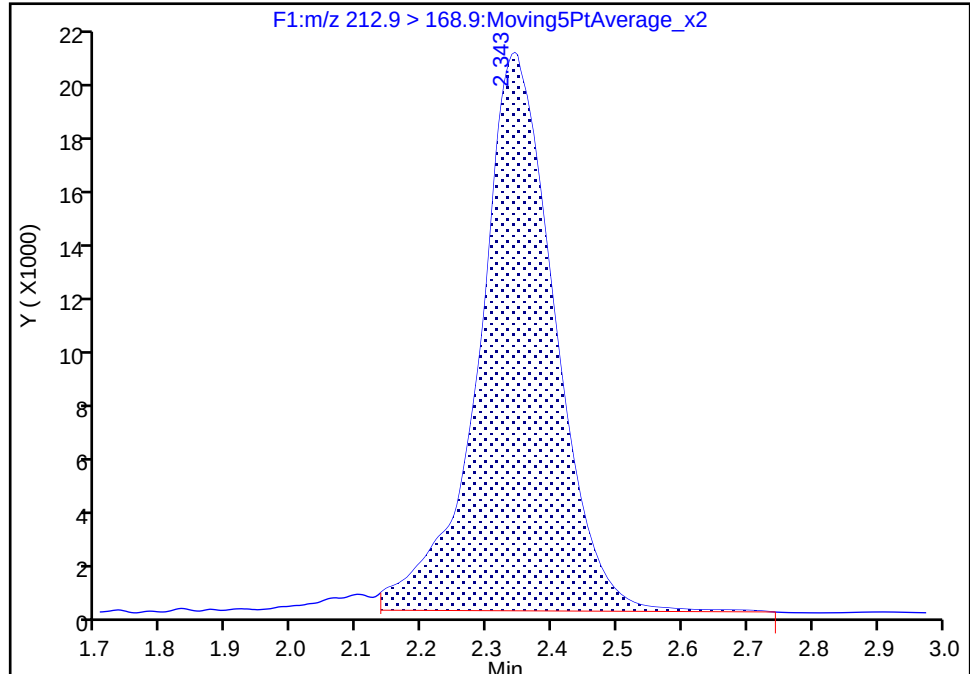
Detector F1:MRM

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

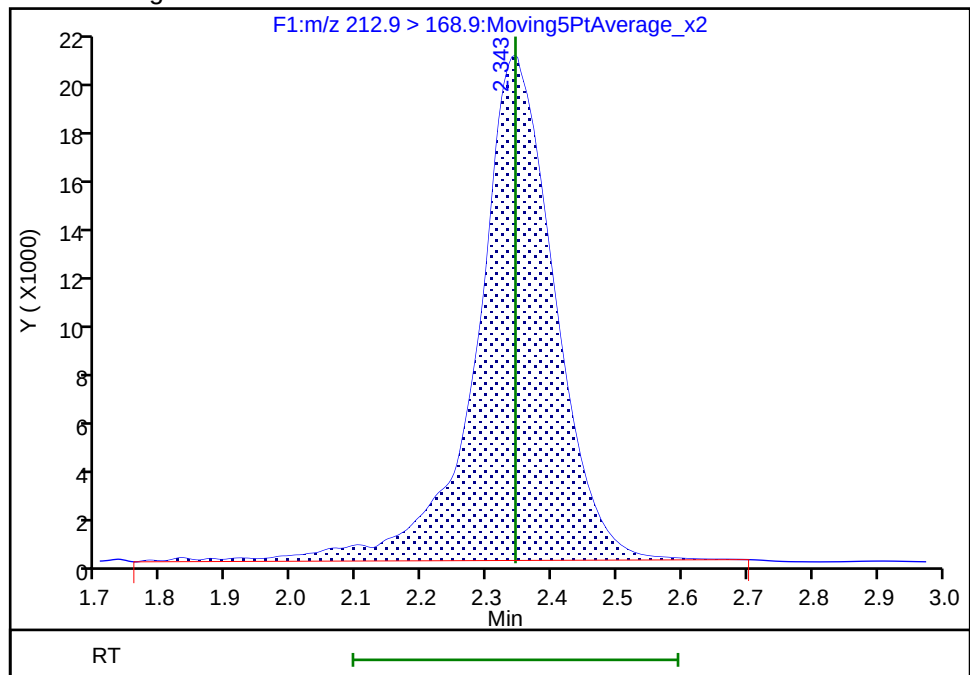
RT: 2.34  
Area: 162806  
Amount: 23.139829  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.34  
Area: 168037  
Amount: 24.370997  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 09:28:04

Audit Action: Manually Integrated

Audit Reason: Missed Peak



## TestAmerica Burlington

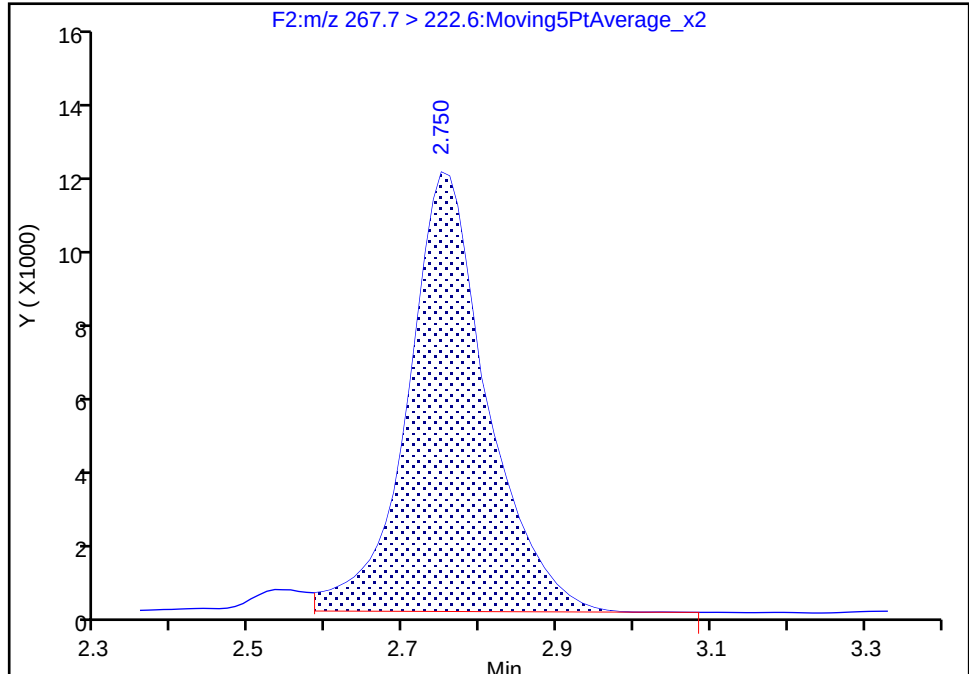
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A28.d  
Injection Date: 12-Oct-2018 23:18:23 Instrument ID: LC410  
Lims ID: CCV L4  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 28  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

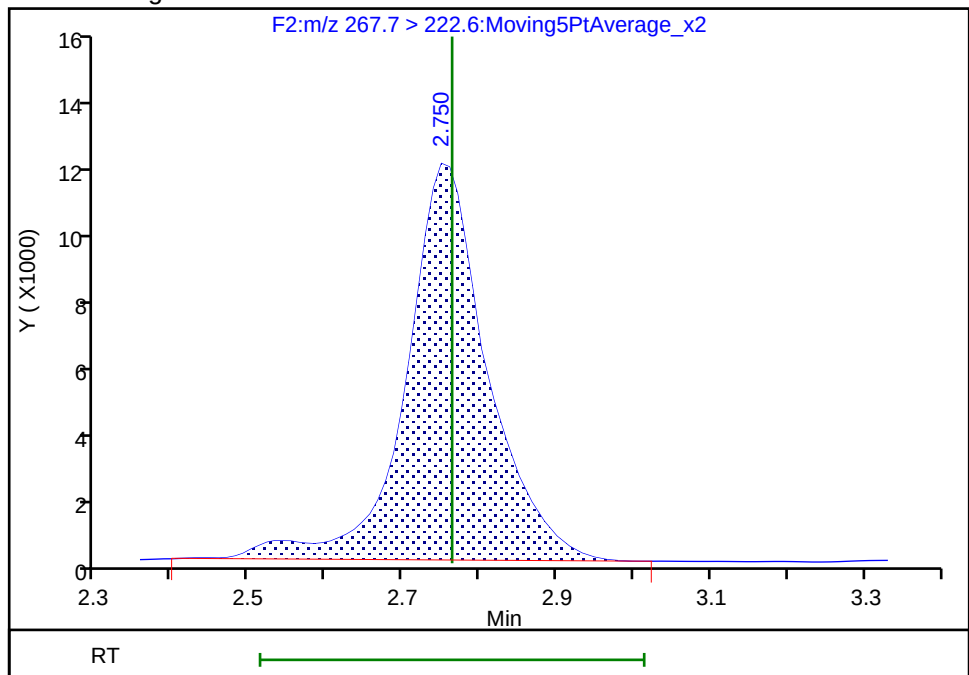
RT: 2.75  
Area: 83784  
Amount: 37.741546  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.75  
Area: 85993  
Amount: 38.736617  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 09:28:13

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

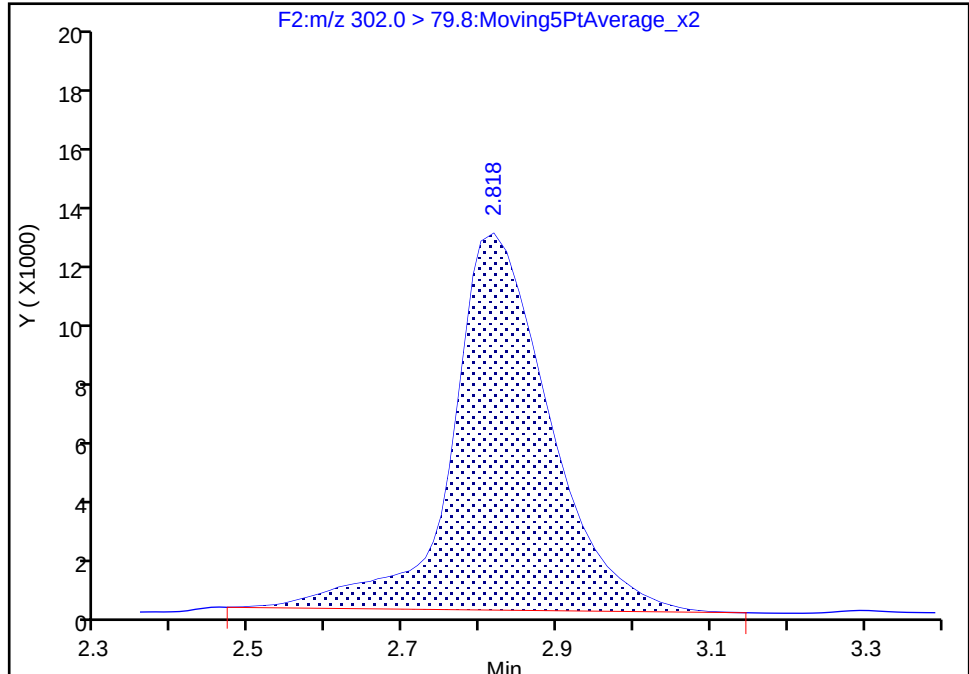
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A28.d  
Injection Date: 12-Oct-2018 23:18:23 Instrument ID: LC410  
Lims ID: CCV L4  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 28  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

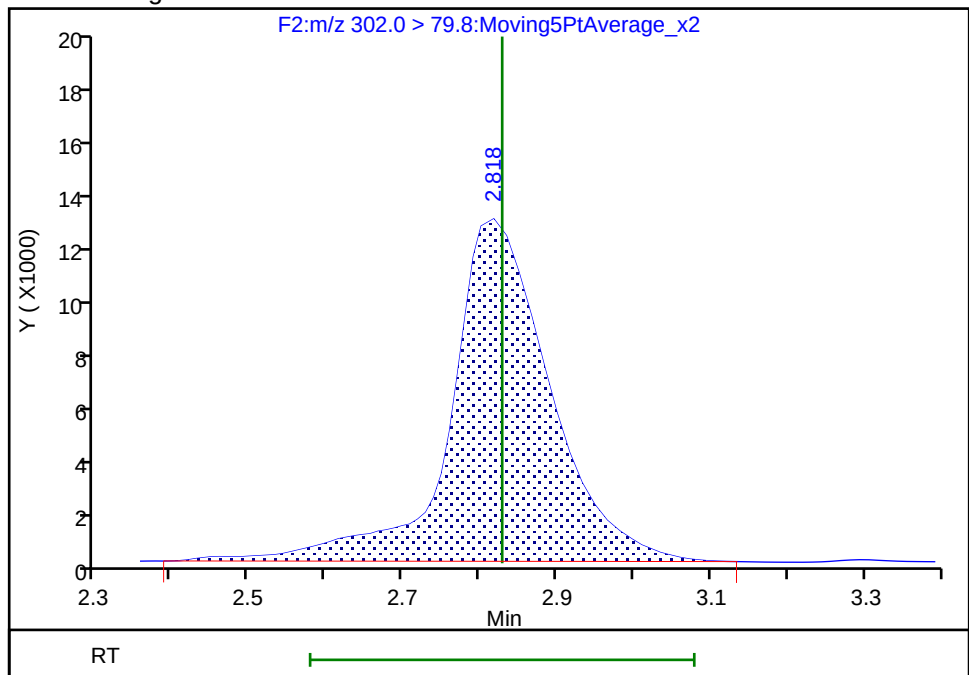
RT: 2.82  
Area: 109631  
Amount: 33.753163  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.82  
Area: 112945  
Amount: 34.773476  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 09:28:20  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

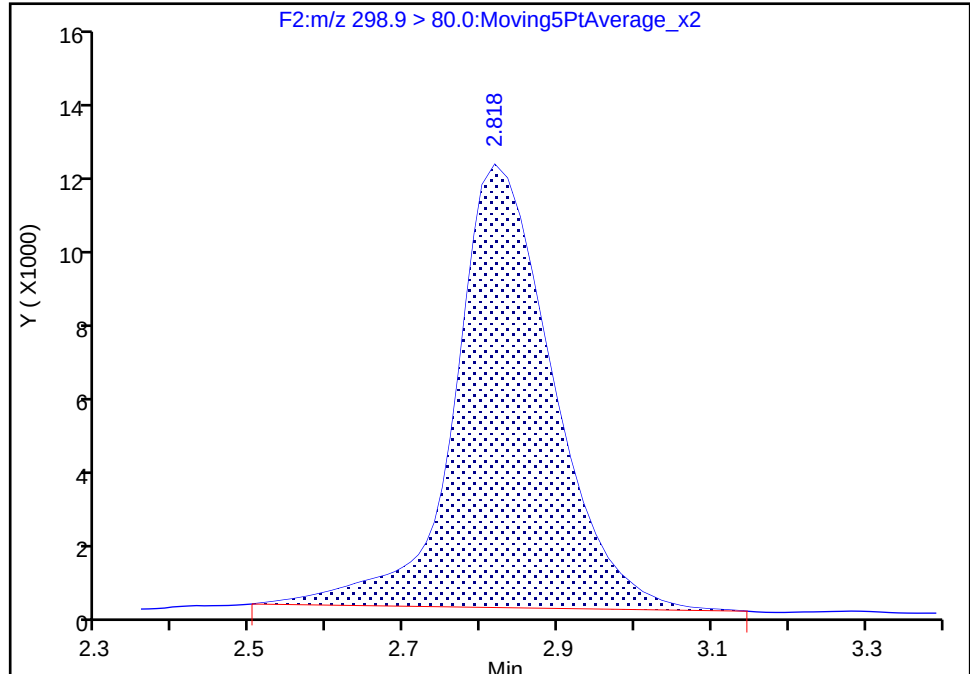
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A28.d  
Injection Date: 12-Oct-2018 23:18:23 Instrument ID: LC410  
Lims ID: CCV L4  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 28  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**5 Perfluorobutanesulfonic acid, CAS: 375-73-5**

Signal: 1

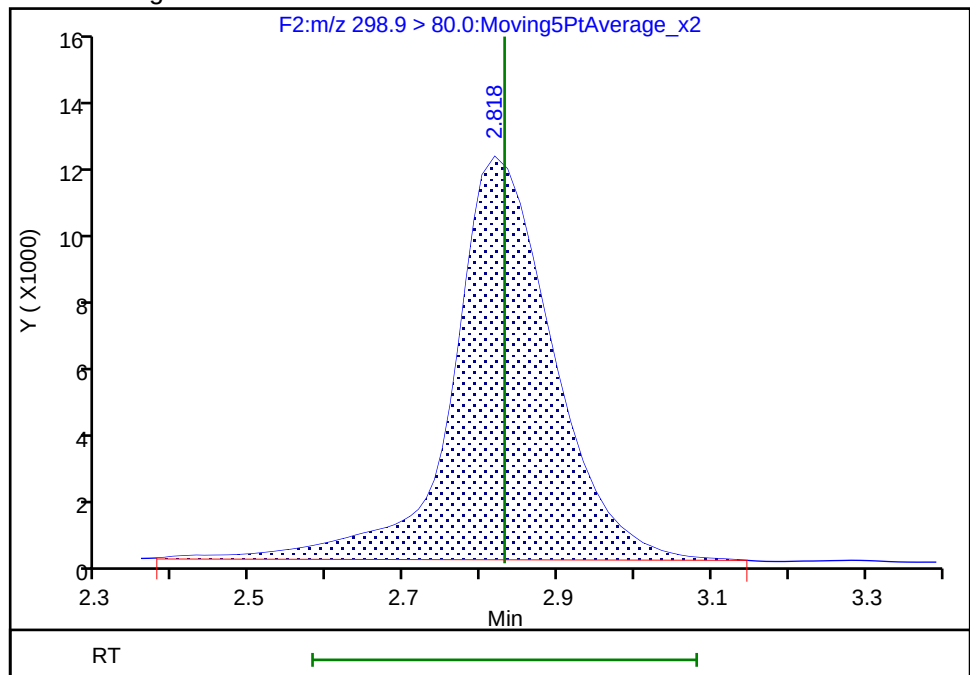
RT: 2.82  
Area: 102434  
Amount: 20.741749  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.82  
Area: 106086  
Amount: 21.481238  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 09:28:24

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

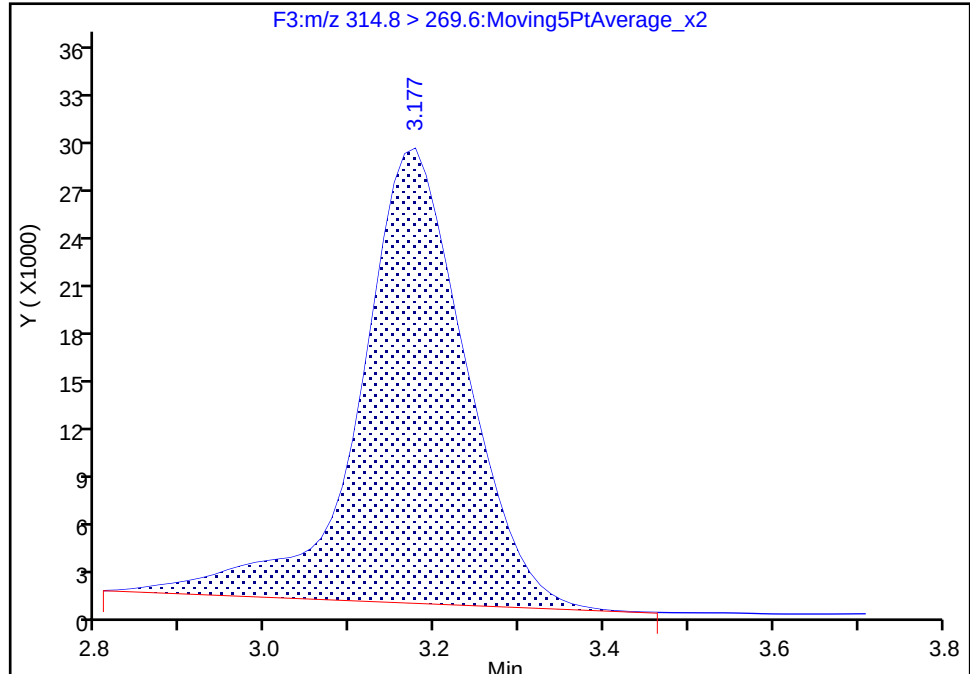
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A28.d  
Injection Date: 12-Oct-2018 23:18:23 Instrument ID: LC410  
Lims ID: CCV L4  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 28  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F3:MRM

**D 7 13C2 PFHxA, CAS: STL00993**

Signal: 1

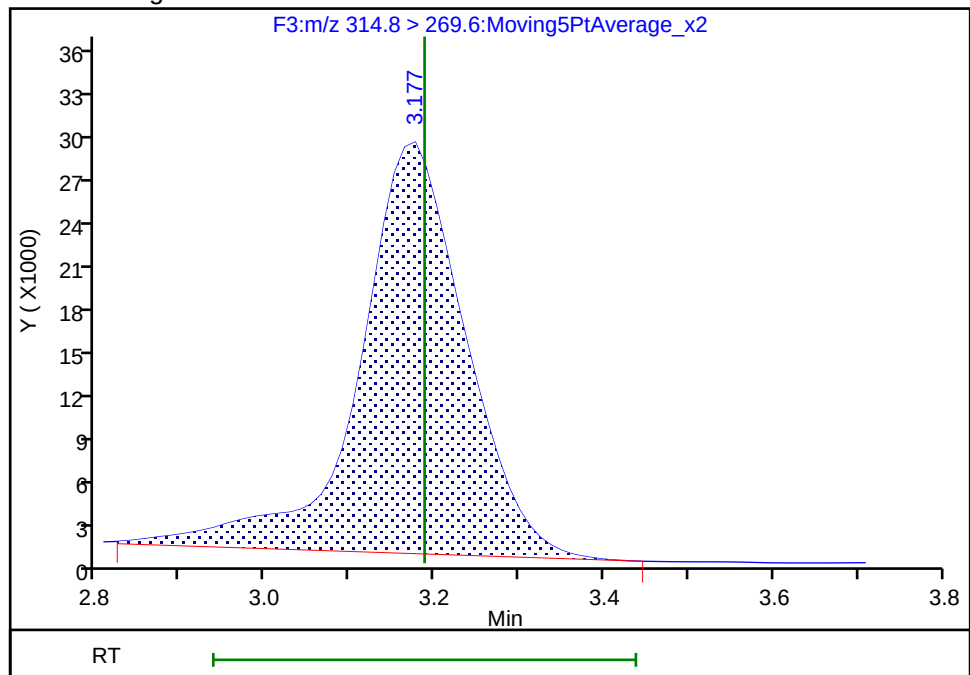
RT: 3.18  
Area: 247727  
Amount: 36.634900  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.18  
Area: 248595  
Amount: 36.763263  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 09:28:28

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

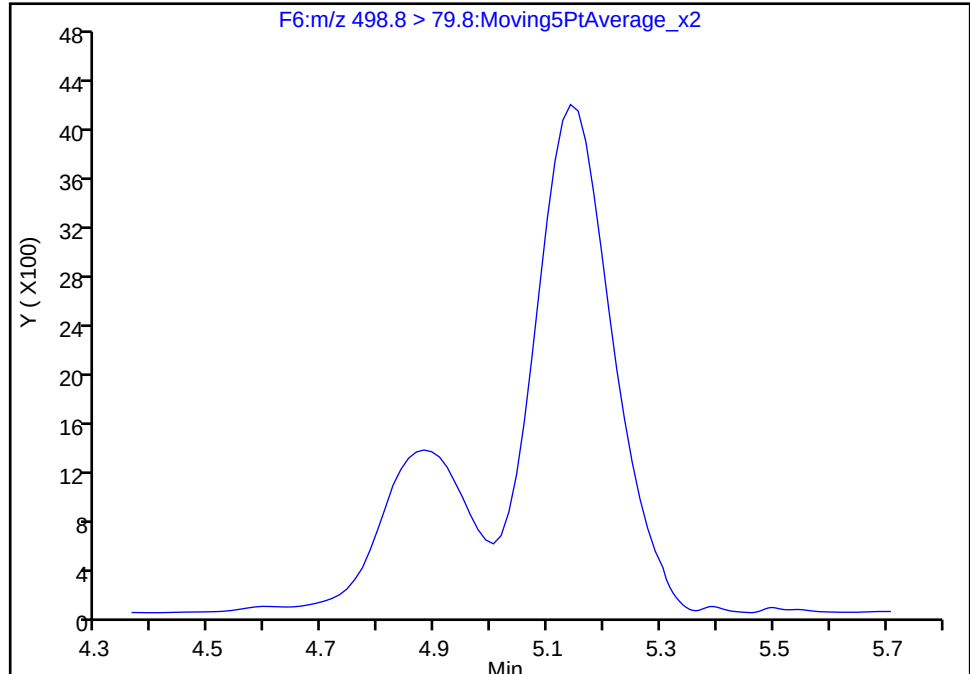
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A28.d |                |             |
| Injection Date: | 12-Oct-2018 23:18:23                                                | Instrument ID: | LC410       |
| Lims ID:        | CCV L4                                                              |                |             |
| Client ID:      |                                                                     |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector       | F6:MRM      |
|                 |                                                                     | Worklist Smp#: | 28          |

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

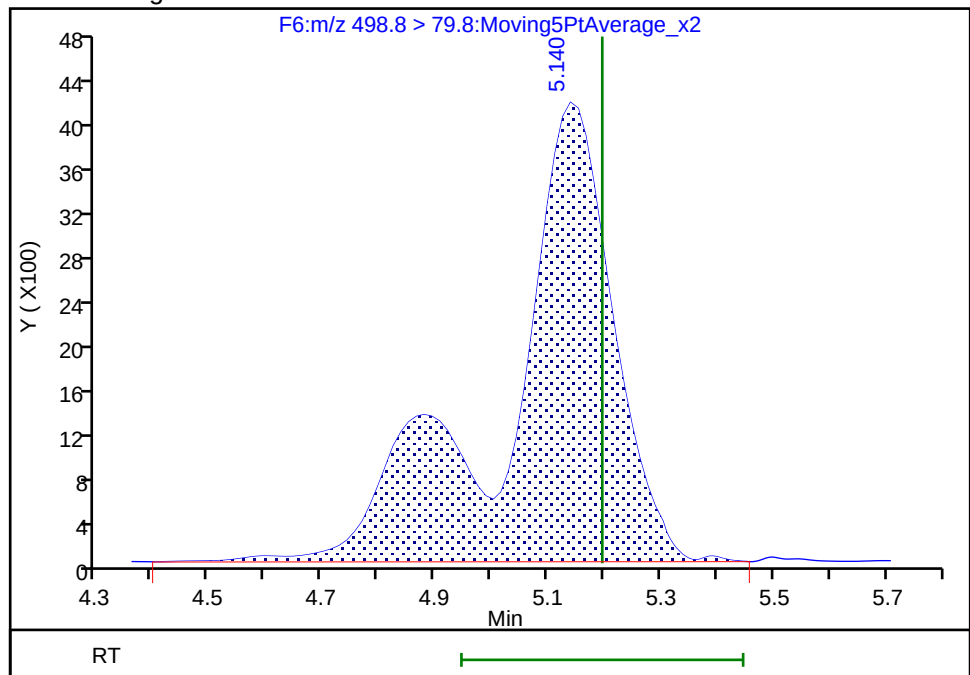
Signal: 1

Not Detected  
Expected RT: 5.20

## Processing Integration Results



## Manual Integration Results

RT: 5.14  
Area: 53935  
Amount: 20.426065  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 09:27:53

Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCV 200-135180/40 Calibration Date: 10/13/2018 02:29

Instrument ID: LC410 Calib Start Date: 10/12/2018 17:29

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 10/12/2018 19:35

Lab File ID: PF101218A40.d Conc. Units: ng/L

| ANALYTE                                                  | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|----------------------------------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Perfluorobutanoic acid (PFBA)                            | AveID      | 0.9581  | 1.178  |         | 61490       | 50000        | 23.0  | 40.0   |
| Perfluoropentanoic acid (PFPeA)                          | AveID      | 6.771   | 7.515  |         | 55490       | 50000        | 11.0  | 40.0   |
| Perfluorobutanesulfonic acid (PFBS)                      | AveID      | 2.033   | 2.043  |         | 50240       | 50000        | 0.5   | 40.0   |
| Perfluorohexanoic acid (PFHxA)                           | AveID      | 1.063   | 1.057  |         | 49740       | 50000        | -0.5  | 40.0   |
| Perfluoroheptanoic acid (PFHpA)                          | AveID      | 1.005   | 1.034  |         | 51450       | 50000        | 2.9   | 40.0   |
| Perfluorohexanesulfonic acid (PFHxS)                     | AveID      | 1.866   | 1.993  |         | 53410       | 50000        | 6.8   | 40.0   |
| 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | AveID      | 1.034   | 0.9676 |         | 46800       | 50000        | -6.4  | 40.0   |
| Perfluorooctanoic acid (PFOA)                            | AveID      | 1.047   | 1.024  |         | 48900       | 50000        | -2.2  | 40.0   |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | AveID      | 0.8790  | 0.8955 |         | 50940       | 50000        | 1.9   | 50.0   |
| Perfluorononanoic acid (PFNA)                            | L1ID       |         | 1.089  |         | 50960       | 50000        | 1.9   | 40.0   |
| Perfluorooctanesulfonic acid (PFOS)                      | AveID      | 1.033   | 1.032  |         | 49960       | 50000        | -0.0  | 40.0   |
| 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | AveID      | 0.7190  | 0.7462 |         | 51890       | 50000        | 3.8   | 40.0   |
| Perfluorodecanoic acid (PFDA)                            | L1ID       |         | 1.006  |         | 50520       | 50000        | 1.0   | 40.0   |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | AveID      | 1.056   | 1.206  |         | 57100       | 50000        | 14.2  | 40.0   |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | AveID      | 0.9829  | 0.9653 |         | 49100       | 50000        | -1.8  | 40.0   |
| Perfluorodecanesulfonic acid (PFDS)                      | AveID      | 1.140   | 1.153  |         | 50570       | 50000        | 1.1   | 50.0   |
| Perfluoroundecanoic acid (PFUnA)                         | AveID      | 0.8859  | 0.8560 |         | 48310       | 50000        | -3.4  | 40.0   |
| Perfluorooctanesulfonamide (PFOSA)                       | AveID      | 0.8579  | 0.8940 |         | 52110       | 50000        | 4.2   | 40.0   |
| Perfluorododecanoic acid (PFDoA)                         | AveID      | 0.8649  | 0.8792 |         | 50820       | 50000        | 1.6   | 40.0   |
| Perfluorotridecanoic acid (PFTrIA)                       | AveID      | 0.9306  | 0.8532 |         | 45840       | 50000        | -8.3  | 50.0   |
| Perfluorotetradecanoic acid (PFTeA)                      | AveID      | 0.9779  | 0.9690 |         | 49550       | 50000        | -0.9  | 40.0   |
| 13C4 PFBA                                                | Ave        | 0.5391  | 0.4298 |         | 39860       | 50000        | -20.3 | 50.0   |
| 13C5 PFPeA                                               | Ave        | 0.1293  | 0.1019 |         | 39410       | 50000        | -21.2 | 50.0   |
| 13C3 PFBS                                                | Ave        | 0.1892  | 0.1540 |         | 37840       | 46500        | -18.6 | 50.0   |
| 13C2 PFHxA                                               | Ave        | 0.3939  | 0.3406 |         | 43240       | 50000        | -13.5 | 50.0   |
| 13C4 PFHpA                                               | Ave        | 1.153   | 1.099  |         | 47660       | 50000        | -4.7  | 50.0   |
| 18O2 PFHxS                                               | Ave        | 0.2281  | 0.1799 |         | 37290       | 47300        | -21.2 | 50.0   |
| M2-6:2 FTS                                               | Ave        | 0.0416  | 0.0368 |         | 42020       | 47500        | -11.5 | 50.0   |
| 13C4 PFOA                                                | Ave        | 0.9256  | 0.9490 |         | 51260       | 50000        | 2.5   | 50.0   |
| 13C5 PFNA                                                | Ave        | 1.184   | 1.188  |         | 50140       | 50000        | 0.3   | 50.0   |
| 13C4 PFOS                                                | Ave        | 0.1912  | 0.1497 |         | 37430       | 47800        | -21.7 | 50.0   |
| M2-8:2 FTS                                               | Ave        | 0.3129  | 0.3158 |         | 48340       | 47900        | 0.9   | 50.0   |

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 460-165769-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-135180/40 Calibration Date: 10/13/2018 02:29  
 Instrument ID: LC410 Calib Start Date: 10/12/2018 17:29  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 10/12/2018 19:35  
 Lab File ID: PF101218A40.d Conc. Units: ng/L

| ANALYTE     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|-------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| 13C2 PFDA   | Ave           | 1.298   | 1.358  |         | 52320          | 50000           | 4.6   | 50.0      |
| d3-NMeFOSAA | Ave           | 0.3656  | 0.3412 |         | 46670          | 50000           | -6.7  | 50.0      |
| d5-NEtFOSAA | Ave           | 0.3175  | 0.3170 |         | 49920          | 50000           | -0.2  | 50.0      |
| 13C2 PFUnA  | Ave           | 1.488   | 1.515  |         | 50910          | 50000           | 1.8   | 50.0      |
| 13C8 FOSA   | Ave           | 0.3392  | 0.2418 |         | 35640          | 50000           | -28.7 | 50.0      |
| 13C2 PFDoA  | Ave           | 1.630   | 1.691  |         | 51860          | 50000           | 3.7   | 50.0      |
| 13C2 PFTeDA | Ave           | 1.584   | 1.186  |         | 37420          | 50000           | -25.2 | 50.0      |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A40.d  
 Lims ID: CCV L5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 13-Oct-2018 02:29:51 ALS Bottle#: 0 Worklist Smp#: 40  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-040 CCV L5  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Sublist: chrom-PFCISO\_12MRM\*sub9  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:50:03 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 09:30:22

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |           |           |           |          |                 |               |      |      |       |
| 216.9 > 171.5                         | 2.343 | 2.326     | 0.017     | 1.000     | 323261   | 39.9            |               | 79.7 | 416  |       |
| 2 Perfluorobutanoic acid              |       |           |           |           |          |                 |               |      |      |       |
| 212.9 > 168.9                         | 2.338 | 2.344     | -0.006    | 0.998     | 380892   | 61.5            |               | 123  | 281  |       |
| D 3 13C5 PFPeA                        |       |           |           |           |          |                 |               |      |      | M     |
| 267.7 > 222.6                         | 2.760 | 2.763     | -0.003    | 1.000     | 76672    | 39.4            |               | 78.8 | 946  | M     |
| 4 Perfluoropentanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 262.9 > 218.8                         | 2.760 | 2.763     | -0.003    | 1.000     | 576207   | 55.5            |               | 111  | 1567 |       |
| D 6 13C3 PFBS                         |       |           |           |           |          |                 |               |      |      | M     |
| 302.0 > 79.8                          | 2.818 | 2.829     | -0.011    | 1.000     | 107705   | 37.8            |               | 81.4 | 151  | M     |
| 5 Perfluorobutanesulfonic acid        |       |           |           |           |          |                 |               |      |      |       |
| 298.9 > 80.0                          | 2.818 | 2.830     | -0.012    | 1.000     | 236605   | 50.2            |               | 100  | 510  |       |
| D 7 13C2 PFHxA                        |       |           |           |           |          |                 |               |      |      |       |
| 314.8 > 269.6                         | 3.177 | 3.188     | -0.011    | 1.000     | 256197   | 43.2            |               | 86.5 | 1346 |       |
| 8 Perfluorohexanoic acid              |       |           |           |           |          |                 |               |      |      |       |
| 312.8 > 268.6                         | 3.177 | 3.189     | -0.012    | 1.000     | 270851   | 49.7            |               | 99.5 | 4783 |       |
| D 9 13C4 PFHpA                        |       |           |           |           |          |                 |               |      |      |       |
| 366.9 > 321.8                         | 3.715 | 3.725     | -0.010    | 1.000     | 826725   | 47.7            |               | 95.3 | 1037 |       |
| 10 Perfluoroheptanoic acid            |       |           |           |           |          |                 |               |      |      |       |
| 362.9 > 318.8                         | 3.715 | 3.728     | -0.013    | 1.000     | 854856   | 51.4            |               | 103  | 9885 |       |
| 12 Perfluorohexanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 399.0 > 80.0                          | 3.759 | 3.769     | -0.010    | 1.003     | 269598   | 53.4            |               | 107  | 898  |       |
| D 11 18O2 PFHxS                       |       |           |           |           |          |                 |               |      |      |       |
| 402.9 > 83.8                          | 3.748 | 3.770     | -0.022    | 1.000     | 127961   | 37.3            |               | 78.8 | 331  |       |
| D 13 M2-6:2 FTS                       |       |           |           |           |          |                 |               |      |      |       |
| 428.6 > 408.6                         | 4.330 | 4.353     | -0.023    | 1.000     | 26315    | 42.0            |               | 88.5 | 103  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |           |           |           |          |                 |               |      |      |       |
| 426.6 > 406.6                         | 4.342 | 4.355     | -0.013    | 1.003     | 26803    | 46.8            |               | 93.6 | 336  |       |



| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N   | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|-------|-------|
| * 15 13C2 PFOA                        |       |           |           |           |          |                 |               |      |       |       |
| 414.9 > 369.8                         | 4.393 | 4.401     | -0.008    |           | 752095   | 50.0            |               |      | 10497 |       |
| D 17 13C4 PFOA                        |       |           |           |           |          |                 |               |      |       |       |
| 416.9 > 371.8                         | 4.393 | 4.407     | -0.014    | 1.000     | 713757   | 51.3            |               | 103  | 2407  |       |
| 16 Perfluorooctanoic acid             |       |           |           |           |          |                 |               |      |       |       |
| 412.9 > 368.8                         | 4.393 | 4.409     | -0.016    | 1.000     | 730707   | 48.9            |               | 97.8 | 2291  |       |
| 18 Perfluoroheptanesulfonic acid      |       |           |           |           |          |                 |               |      |       |       |
| 448.8 > 79.8                          | 4.430 | 4.441     | -0.011    | 0.855     | 100848   | 50.9            |               | 102  | 366   |       |
| D 20 13C5 PFNA                        |       |           |           |           |          |                 |               |      |       |       |
| 467.8 > 422.8                         | 5.154 | 5.171     | -0.017    | 1.000     | 893122   | 50.1            |               | 100  | 1014  |       |
| 19 Perfluorononanoic acid             |       |           |           |           |          |                 |               |      |       |       |
| 462.8 > 418.8                         | 5.154 | 5.175     | -0.021    | 1.000     | 972959   | 51.0            |               | 102  | 1317  |       |
| D 22 13C4 PFOS                        |       |           |           |           |          |                 |               |      |       |       |
| 502.8 > 79.8                          | 5.181 | 5.195     | -0.014    | 1.000     | 107667   | 37.4            |               | 78.3 | 526   |       |
| 21 Perfluorooctanesulfonic acid       |       |           |           |           |          |                 |               |      |       |       |
| 498.8 > 79.8                          | 5.181 | 5.197     | -0.016    | 1.000     | 116224   | 50.0            |               | 99.9 | 325   | M     |
| D 24 M2-8:2 FTS                       |       |           |           |           |          |                 |               |      |       |       |
| 528.8 > 508.8                         | 5.902 | 5.929     | -0.027    | 1.000     | 227521   | 48.3            |               | 101  | 914   |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |           |           |           |          |                 |               |      |       |       |
| 526.8 > 506.5                         | 5.926 | 5.932     | -0.006    | 1.004     | 177230   | 51.9            |               | 104  | 945   |       |
| D 26 13C2 PFDA                        |       |           |           |           |          |                 |               |      |       |       |
| 514.9 > 469.5                         | 5.950 | 5.950     | 0.0       | 1.000     | 1021487  | 52.3            |               | 105  | 1932  |       |
| 25 Perfluorodecanoic acid             |       |           |           |           |          |                 |               |      |       |       |
| 512.9 > 468.5                         | 5.950 | 5.956     | -0.006    | 1.000     | 1027974  | 50.5            |               | 101  | 4113  |       |
| D 27 d3-NMeFOSAA                      |       |           |           |           |          |                 |               |      |       |       |
| 572.8 > 418.8                         | 6.295 | 6.311     | -0.016    | 1.000     | 256640   | 46.7            |               | 93.3 | 1328  |       |
| 28 N-methylperfluorooctanesulfonamido |       |           |           |           |          |                 |               |      |       |       |
| 569.8 > 418.8                         | 6.313 | 6.315     | -0.002    | 1.003     | 309388   | 57.1            |               | 114  | 691   |       |
| D 29 d5-NEtFOSAA                      |       |           |           |           |          |                 |               |      |       |       |
| 588.9 > 418.8                         | 6.652 | 6.674     | -0.022    | 1.000     | 238394   | 49.9            |               | 99.8 | 1229  |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |           |           |           |          |                 |               |      |       |       |
| 583.9 > 418.8                         | 6.688 | 6.697     | -0.009    | 1.005     | 230123   | 49.1            |               | 98.2 | 796   |       |
| 31 Perfluorodecanesulfonic acid       |       |           |           |           |          |                 |               |      |       |       |
| 598.8 > 79.8                          | 6.706 | 6.706     | 0.0       | 1.294     | 129859   | 50.6            |               | 101  | 1128  |       |
| D 32 13C2 PFUnA                       |       |           |           |           |          |                 |               |      |       |       |
| 564.8 > 519.8                         | 6.706 | 6.720     | -0.014    | 1.000     | 1139225  | 50.9            |               | 102  | 7656  |       |
| 33 Perfluoroundecanoic acid           |       |           |           |           |          |                 |               |      |       |       |
| 562.8 > 518.6                         | 6.706 | 6.720     | -0.014    | 1.000     | 975200   | 48.3            |               | 96.6 | 1427  |       |
| D 35 13C8 FOSA                        |       |           |           |           |          |                 |               |      |       |       |
| 505.8 > 77.8                          | 6.959 | 6.973     | -0.014    | 1.000     | 181852   | 35.6            |               | 71.3 | 1565  |       |
| 34 Perfluorooctanesulfonamide         |       |           |           |           |          |                 |               |      |       |       |
| 497.8 > 77.8                          | 6.959 | 6.973     | -0.014    | 1.000     | 162572   | 52.1            |               | 104  | 1232  |       |
| D 37 13C2 PFDoA                       |       |           |           |           |          |                 |               |      |       |       |
| 614.8 > 569.6                         | 7.384 | 7.402     | -0.018    | 1.000     | 1271426  | 51.9            |               | 104  | 3071  |       |
| 36 Perfluorododecanoic acid           |       |           |           |           |          |                 |               |      |       |       |
| 612.8 > 568.6                         | 7.384 | 7.407     | -0.023    | 1.000     | 1117774  | 50.8            |               | 102  | 4213  |       |
| 38 Perfluorotridecanoic acid          |       |           |           |           |          |                 |               |      |       |       |
| 662.8 > 618.6                         | 7.995 | 8.020     | -0.025    | 0.936     | 760829   | 45.8            |               | 91.7 | 1496  |       |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A40.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.544 | 8.563     | -0.019    | 1.000     | 891753   | 37.4            |                 | 74.8 | 1072 |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      |       |
| 712.8 > 668.6                  | 8.544 | 8.567     | -0.023    | 1.000     | 864128   | 49.5            |                 | 99.1 | 1610 |       |
| 712.8 > 168.8                  | 8.544 | 8.567     | -0.023    | 1.000     | 165180   |                 | 5.23(0.00-0.00) |      | 457  |       |
| 712.8 > 218.8                  | 8.544 | 8.567     | -0.023    | 1.000     | 87999    |                 | 9.82(0.00-0.00) |      | 142  |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

LCPFAS24-L5\_00001

Amount Added: 100.00

Units: uL

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A40.d

Injection Date: 13-Oct-2018 02:29:51

Instrument ID: LC410

Lims ID: CCV L5

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 40

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

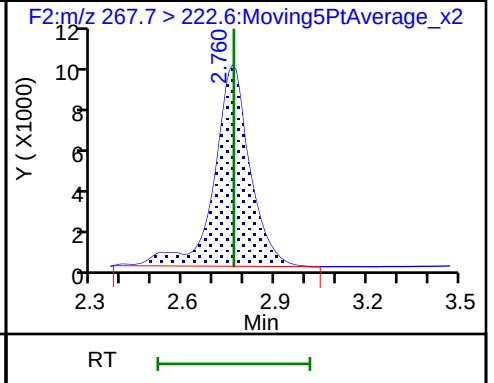
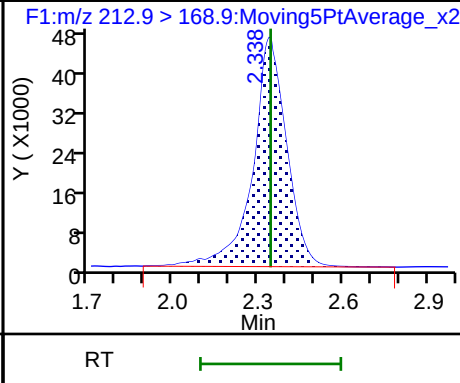
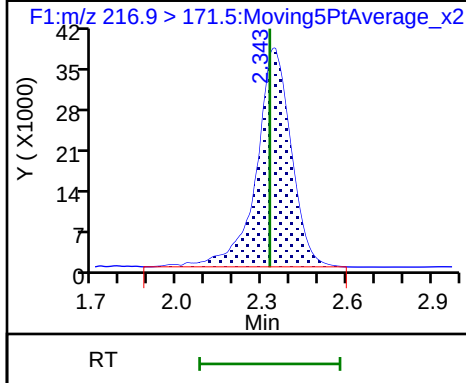
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

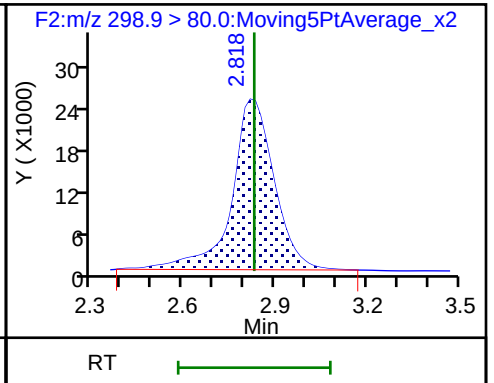
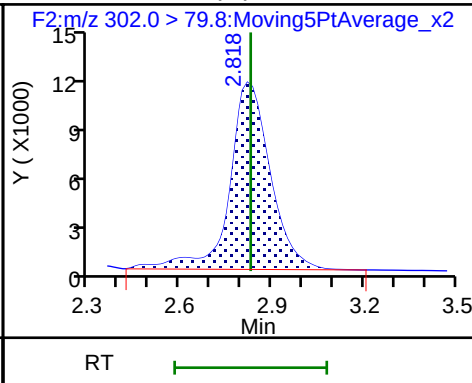
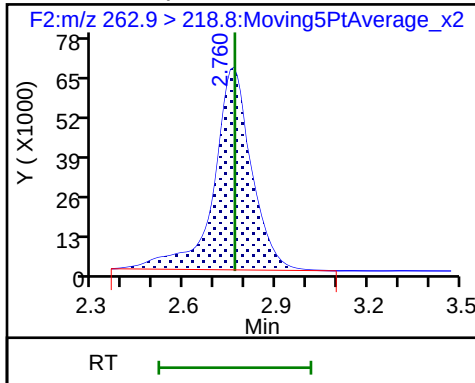
D 3 13C5 PFPeA (M)



4 Perfluoropentanoic acid

D 6 13C3 PFBS (M)

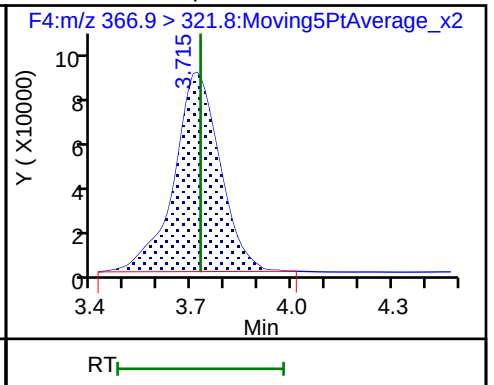
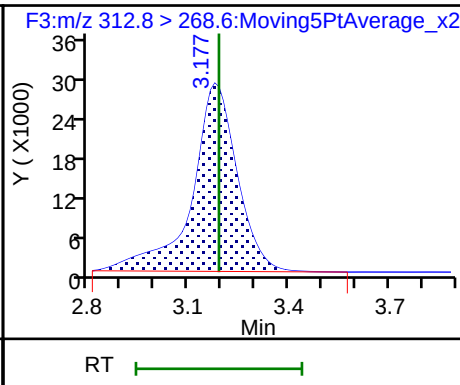
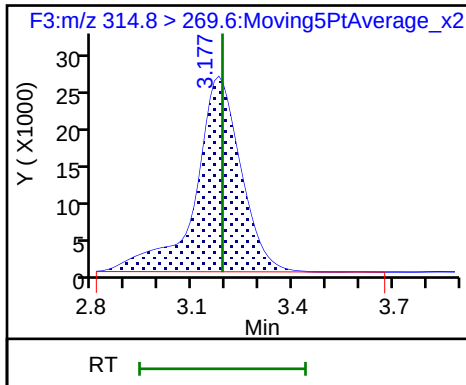
5 Perfluorobutanesulfonic acid



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

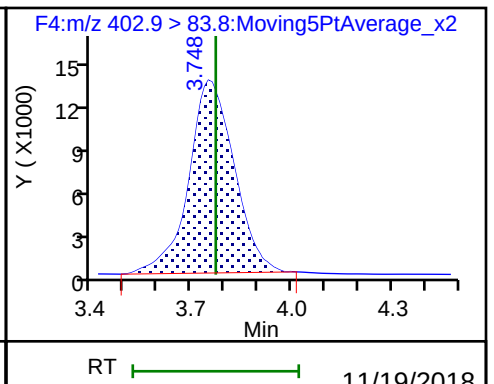
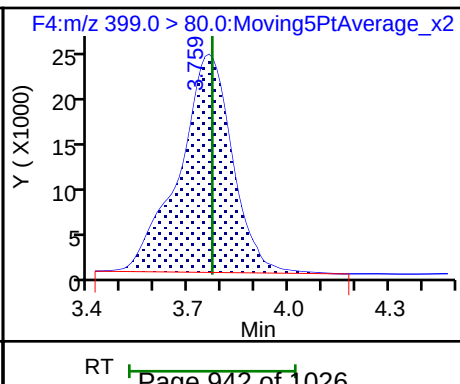
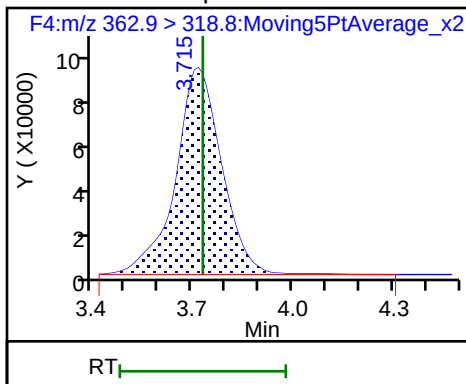
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

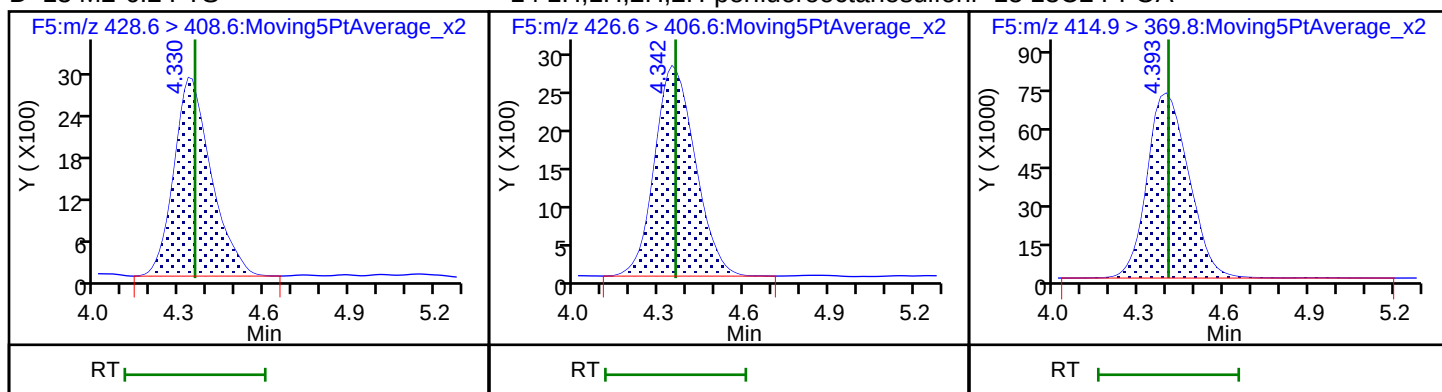
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

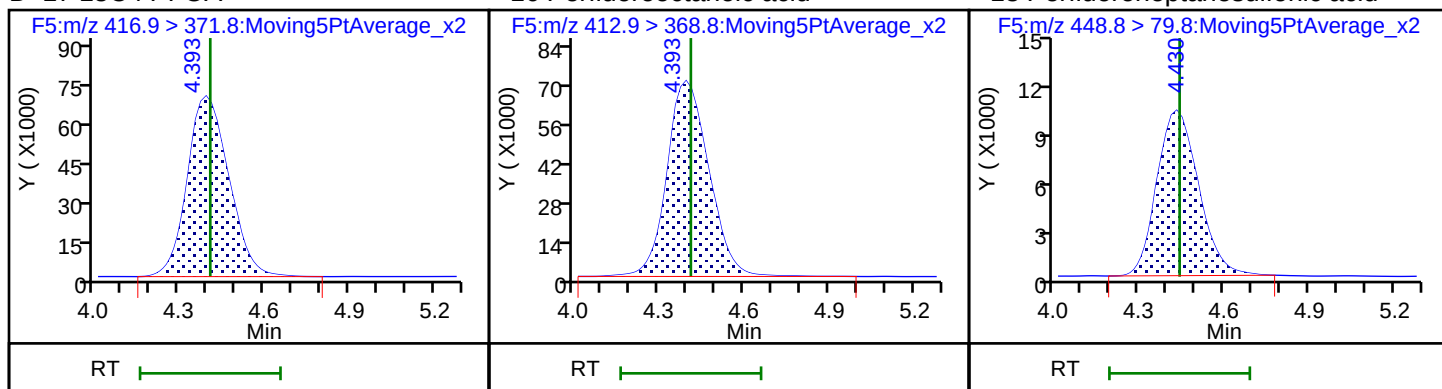
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

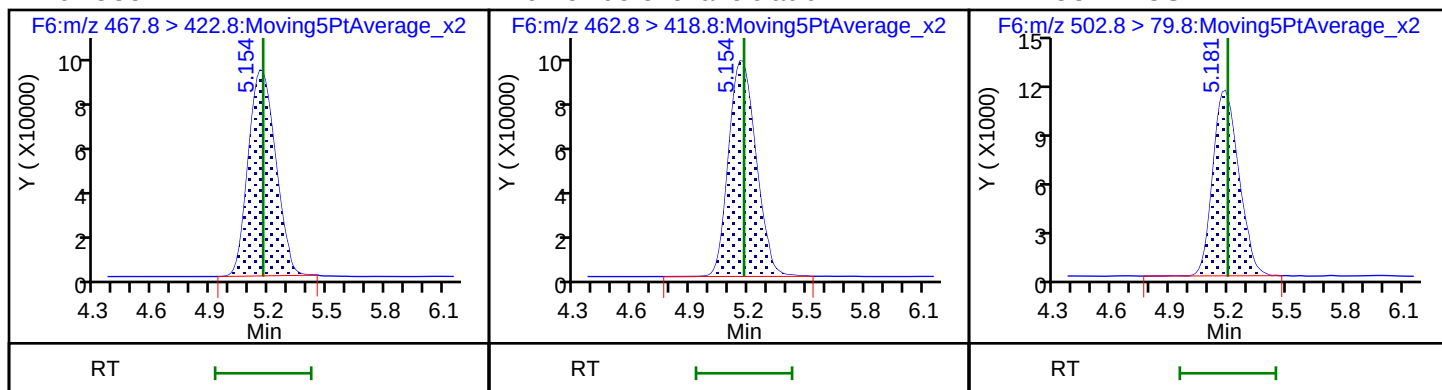
18 Perfluoroheptanesulfonic acid



D 20 13C5 PFNA

19 Perfluorononanoic acid

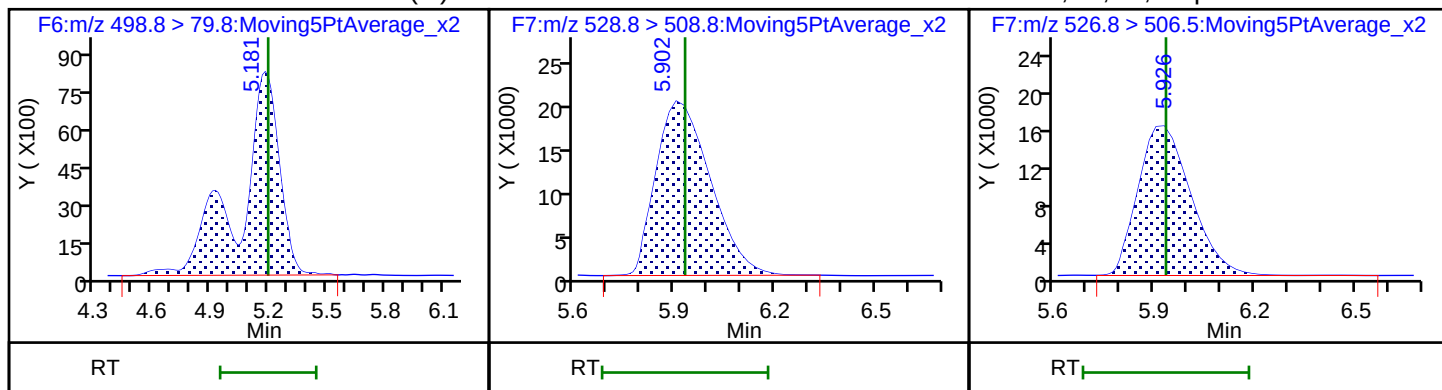
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

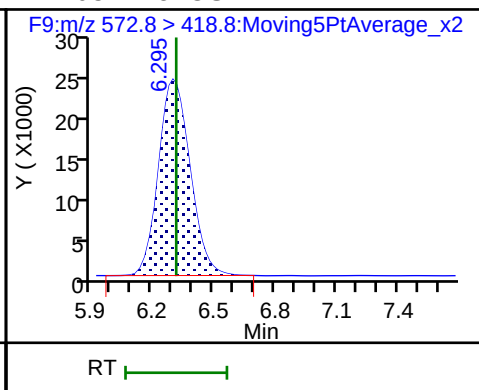
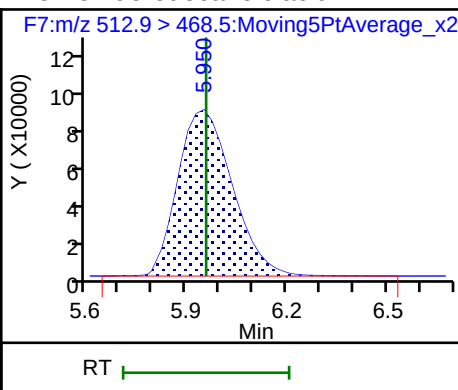
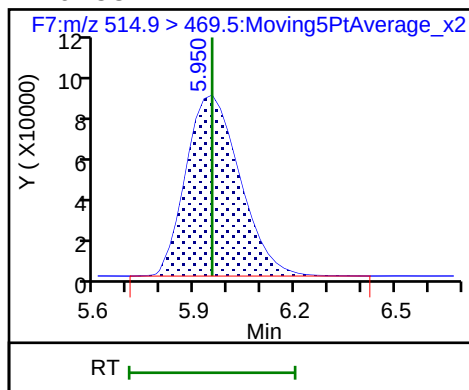
23 1H,1H,2H,2H-perfluorodecanesulfonate



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

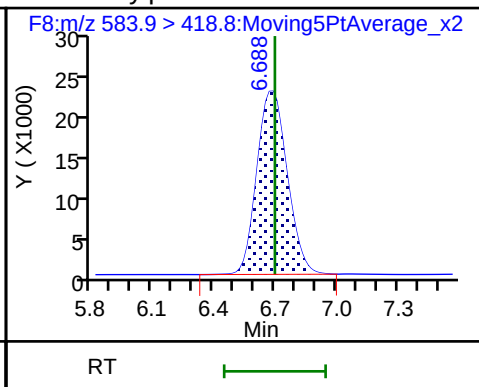
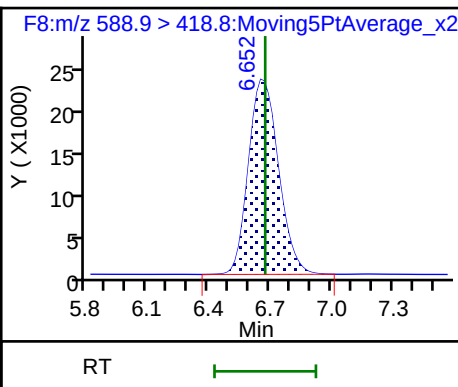
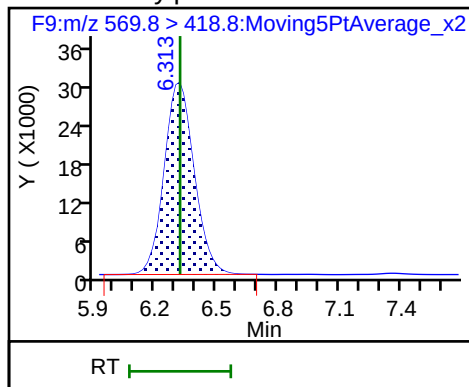
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamid

## D 29 d5-NEtFOSAA

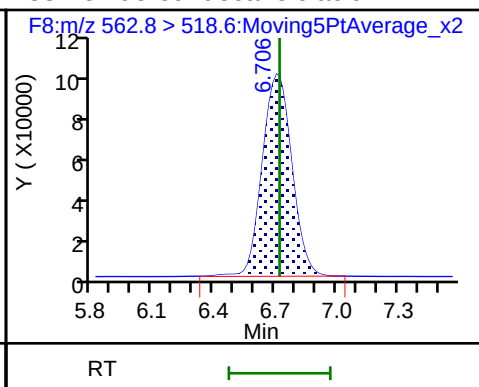
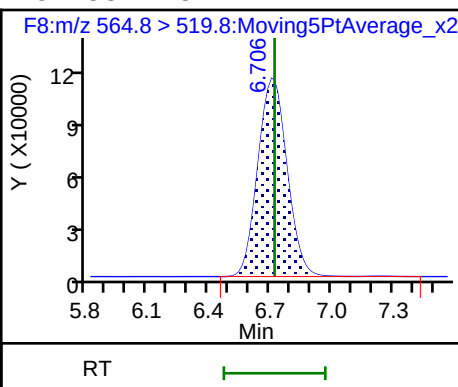
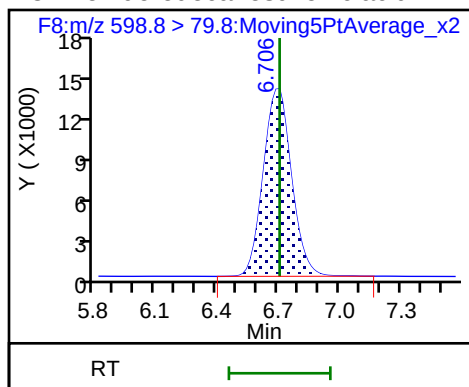
## 30 N-ethylperfluorooctanesulfonamidoa



## 31 Perfluorodecanesulfonic acid

## D 32 13C2 PFUnA

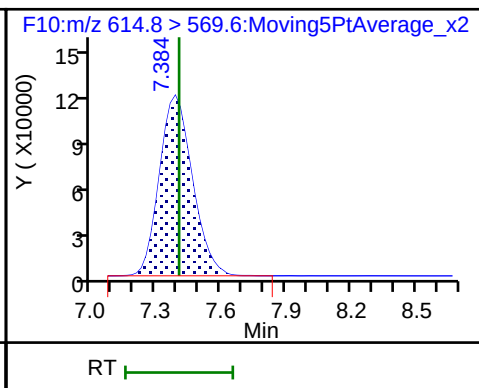
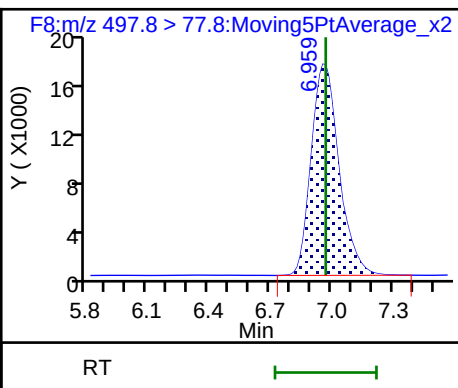
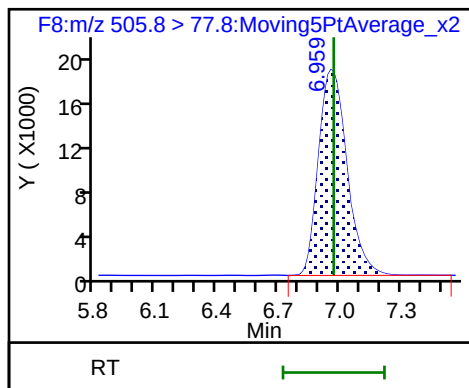
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

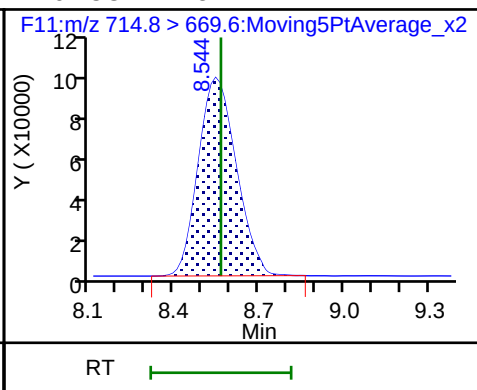
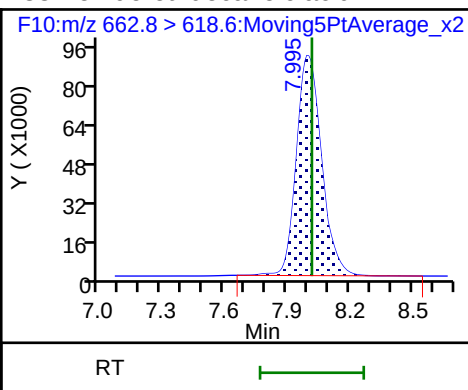
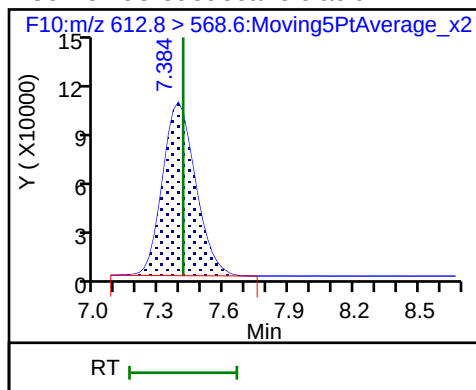
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

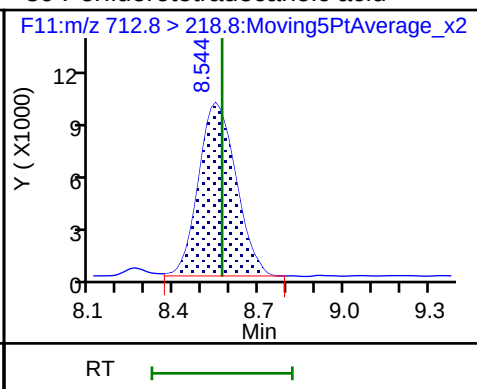
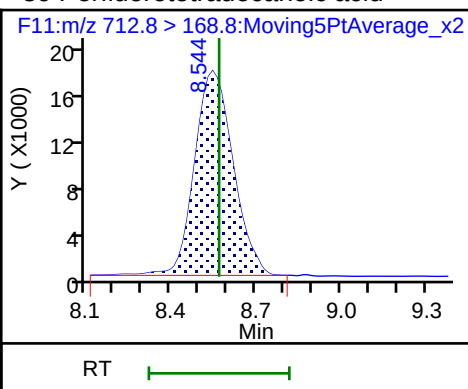
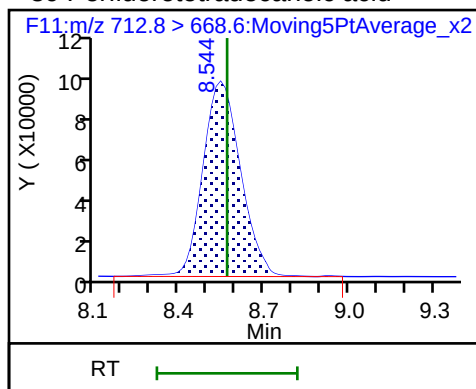
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

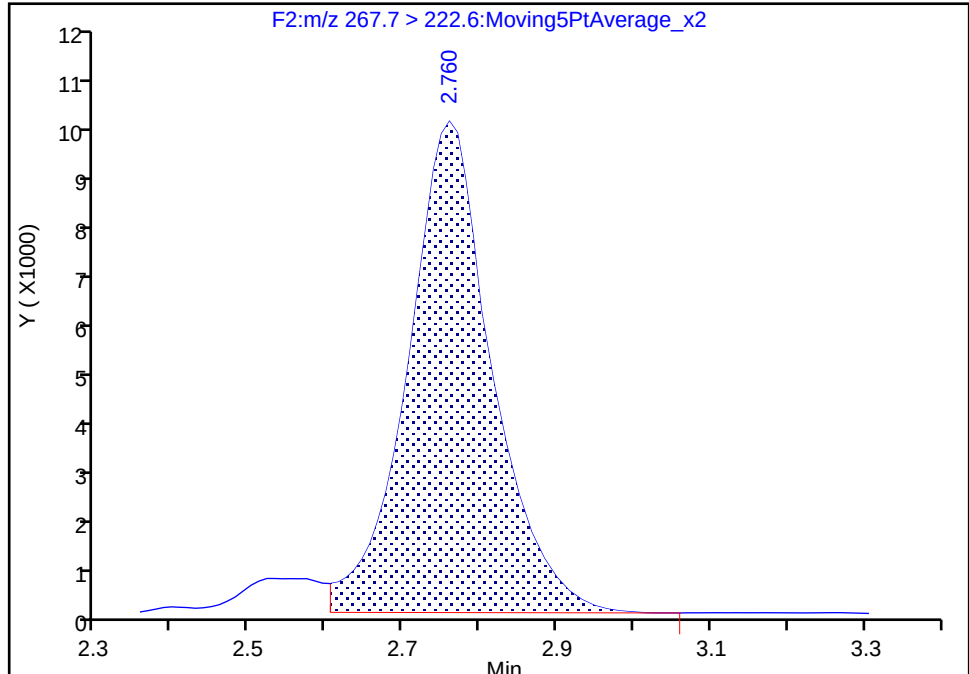
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A40.d  
Injection Date: 13-Oct-2018 02:29:51 Instrument ID: LC410  
Lims ID: CCV L5  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 40  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

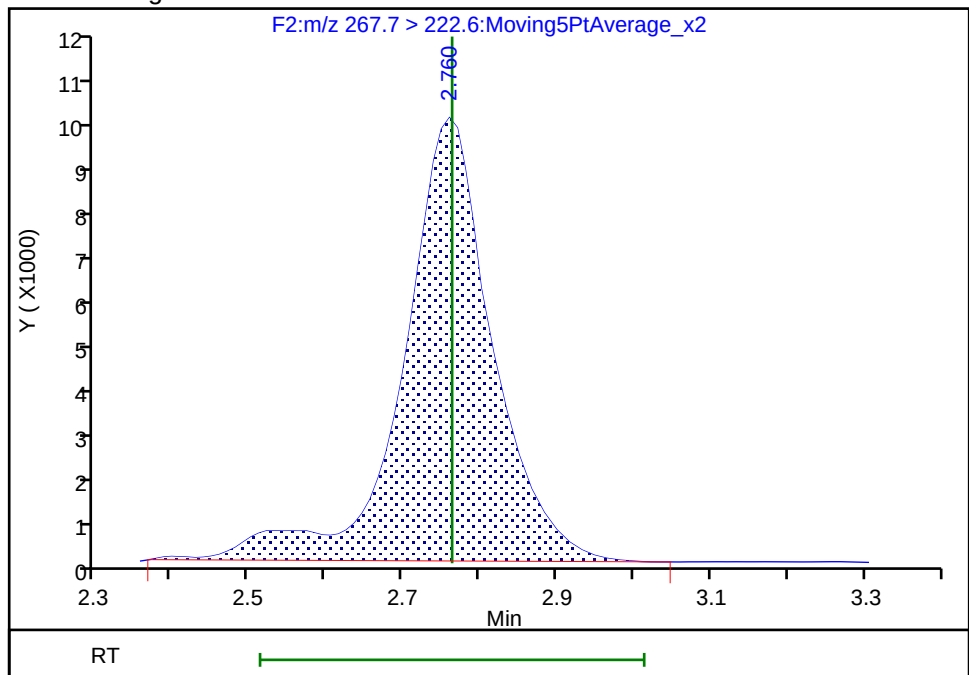
RT: 2.76  
Area: 72245  
Amount: 37.137664  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.76  
Area: 76672  
Amount: 39.413371  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 09:30:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

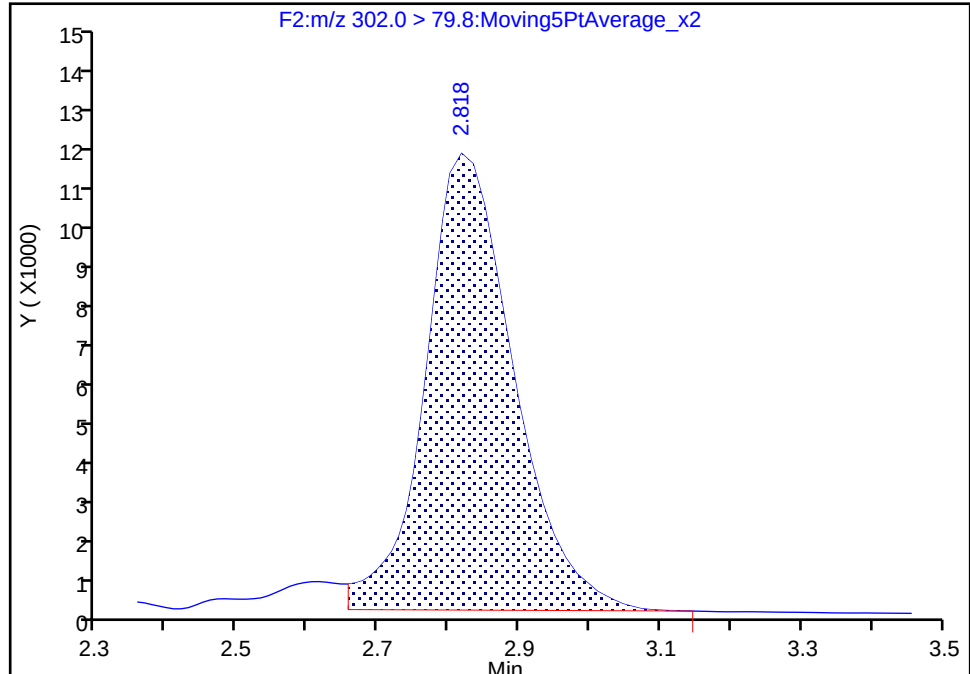
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A40.d  
Injection Date: 13-Oct-2018 02:29:51 Instrument ID: LC410  
Lims ID: CCV L5  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 40  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

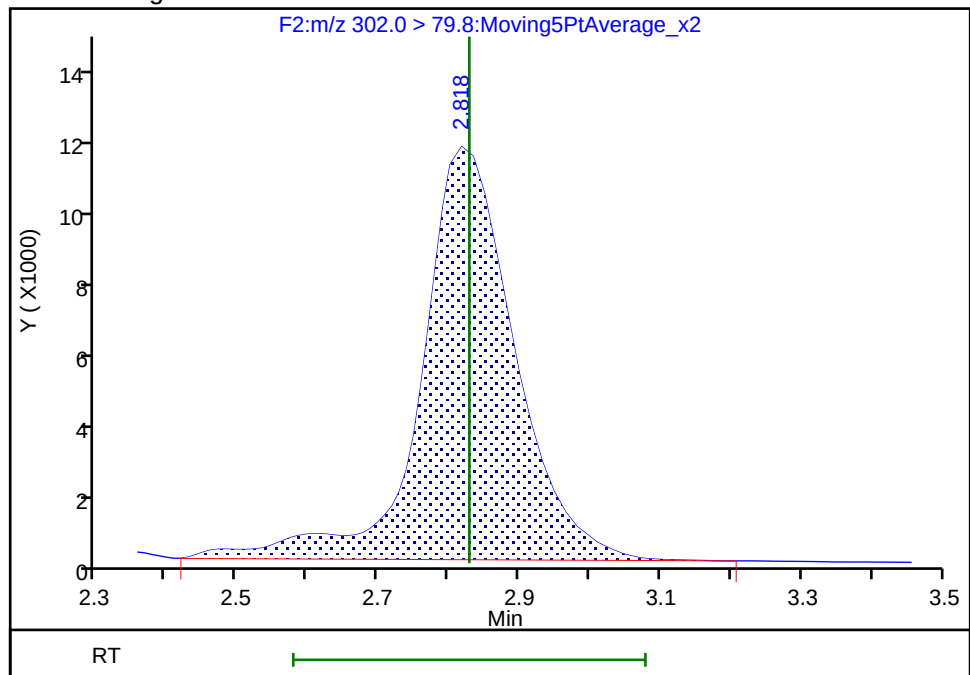
RT: 2.82  
Area: 101536  
Amount: 35.673798  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.82  
Area: 107705  
Amount: 37.841223  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 09:30:09  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

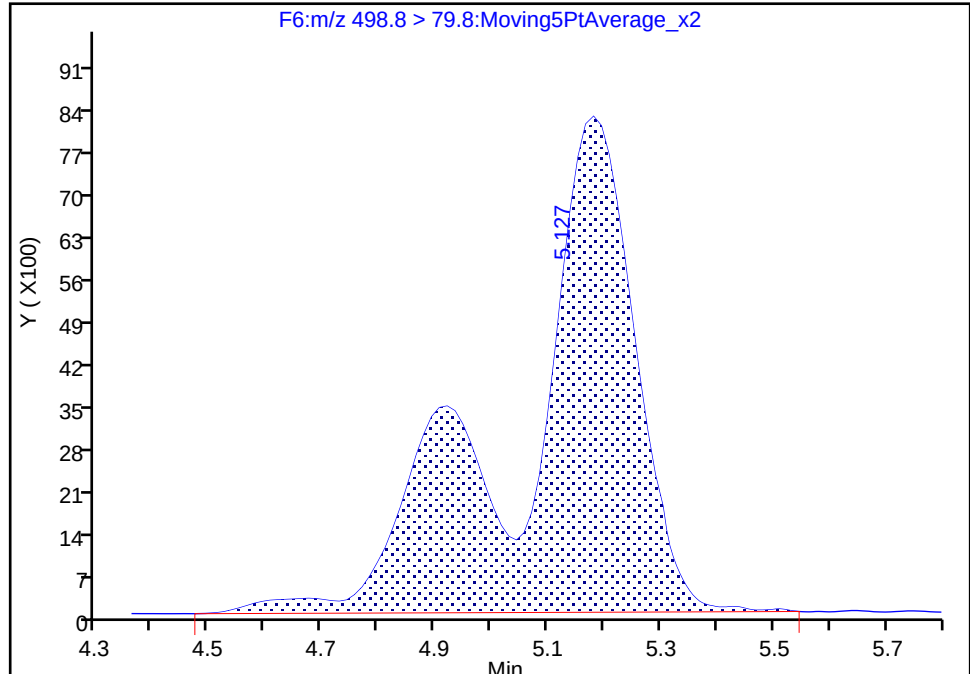
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A40.d  
Injection Date: 13-Oct-2018 02:29:51 Instrument ID: LC410  
Lims ID: CCV L5  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 40  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

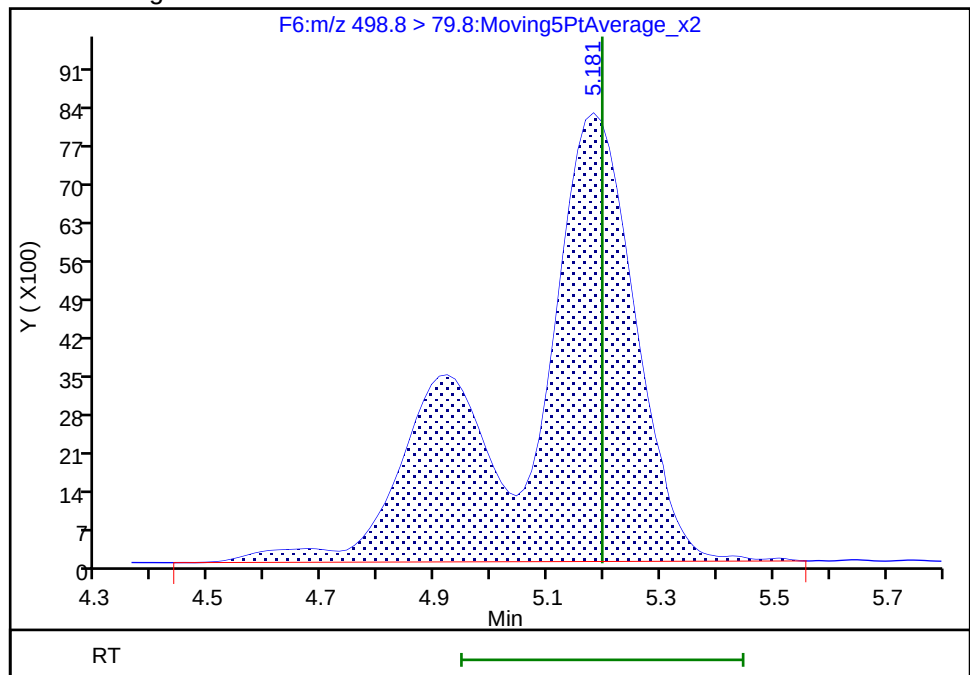
RT: 5.13  
Area: 116084  
Amount: 49.896654  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.18  
Area: 116224  
Amount: 49.956831  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 09:29:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: _____                 | Lab Sample ID: <u>MB 200-134904/1-A</u>    |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A17.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: _____                      |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>250 (mL)</u>          | Date Analyzed: <u>10/12/2018 20:23</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q | RL   | MDL  |
|------------|----------------------------------------------------------|--------|---|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 0.834  | J | 2.00 | 0.41 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 0.75   | U | 2.00 | 0.75 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 0.24   | U | 2.00 | 0.24 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 0.32   | U | 2.00 | 0.32 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 0.32   | U | 2.00 | 0.32 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 0.38   | U | 2.00 | 0.38 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 0.38   | U | 2.00 | 0.38 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 0.293  | J | 2.00 | 0.25 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 0.35   | U | 2.00 | 0.35 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 0.24   | U | 2.00 | 0.24 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 0.45   | U | 2.00 | 0.45 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 0.44   | U | 2.00 | 0.44 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 0.469  | J | 2.00 | 0.26 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 0.82   | U | 2.00 | 0.82 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 0.76   | U | 2.00 | 0.76 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 0.53   | U | 2.00 | 0.53 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 0.56   | U | 2.00 | 0.56 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 0.45   | U | 20.0 | 0.45 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 0.70   | U | 20.0 | 0.70 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 1.00   | U | 20.0 | 1.00 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 0.56   | U | 20.0 | 0.56 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: _____                 | Lab Sample ID: <u>MB 200-134904/1-A</u>    |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A17.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: _____                      |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>250 (mL)</u>          | Date Analyzed: <u>10/12/2018 20:23</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 82   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 86   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 98   |   | 25-150 |
| STL00991 | 13C4 PFOS        | 78   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 96   |   | 25-150 |
| STL00992 | 13C4 PFBA        | 80   |   | 25-150 |
| STL00993 | 13C2 PFHxA       | 88   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 95   |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 103  |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 93   |   | 25-150 |
| STL01056 | 13C8 FOSA        | 45   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 87   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 61   |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 70   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 87   |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 111  |   | 25-150 |
| STL02280 | M2-8:2 FTS       | 110  |   | 25-150 |
| STL02337 | 13C3 PFBS        | 83   |   | 25-150 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d  
 Lims ID: MB 200-134904/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 12-Oct-2018 20:23:28 ALS Bottle#: 0 Worklist Smp#: 17  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-017 MB 904  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:43:45 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
 Column 1 : Det: F1:MRM  
 Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:21:27

| Signal                          | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| D 1 13C4 PFBA                   |       |        |        |        |          |              |               |      |      | M     |
| 216.9 > 171.5                   | 2.338 | 2.326  | 0.012  | 1.000  | 350685   | 40.1         |               | 80.2 | 531  | M     |
| 2 Perfluorobutanoic acid        |       |        |        |        |          |              |               |      |      | M     |
| 212.9 > 168.9                   | 2.343 | 2.344  | -0.001 | 1.002  | 2802     | 0.4170       |               |      | 1.8  | M     |
| D 3 13C5 PFPeA                  |       |        |        |        |          |              |               |      |      | M     |
| 267.7 > 222.6                   | 2.760 | 2.763  | -0.003 | 1.000  | 91653    | 43.7         |               | 87.4 | 258  | M     |
| 4 Perfluoropentanoic acid       |       |        |        |        |          |              |               |      |      | M     |
| 262.9 > 218.8                   | 2.729 | 2.763  | -0.034 | 0.989  | 2012     | 0.1621       |               |      | 7.6  | M     |
| D 6 13C3 PFBS                   |       |        |        |        |          |              |               |      |      | M     |
| 302.0 > 79.8                    | 2.834 | 2.829  | 0.005  | 1.000  | 119079   | 38.8         |               | 83.4 | 575  | M     |
| D 7 13C2 PFHxA                  |       |        |        |        |          |              |               |      |      |       |
| 314.8 > 269.6                   | 3.177 | 3.188  | -0.011 | 1.000  | 282206   | 44.2         |               | 88.3 | 2229 |       |
| 8 Perfluorohexanoic acid        |       |        |        |        |          |              |               |      |      | M     |
| 312.8 > 268.6                   | 3.238 | 3.189  | 0.049  | 1.019  | 271      | 0.0452       |               |      | 3.5  | M     |
| D 9 13C4 PFHpA                  |       |        |        |        |          |              |               |      |      |       |
| 366.9 > 321.8                   | 3.726 | 3.725  | 0.001  | 1.000  | 804324   | 43.0         |               | 86.0 | 2231 |       |
| 10 Perfluoroheptanoic acid      |       |        |        |        |          |              |               |      |      |       |
| 362.9 > 318.8                   | 3.703 | 3.728  | -0.025 | 0.994  | 1201     | 0.0743       |               |      | 4.8  |       |
| 12 Perfluorohexanesulfonic acid |       |        |        |        |          |              |               |      |      |       |
| 399.0 > 80.0                    | 3.826 | 3.769  | 0.057  | 1.015  | 1322     | 0.2343       |               |      | 10.8 |       |
| D 11 18O2 PFHxS                 |       |        |        |        |          |              |               |      |      |       |
| 402.9 > 83.8                    | 3.770 | 3.770  | 0.0    | 1.000  | 143033   | 38.7         |               | 81.7 | 387  |       |
| D 13 M2-6:2 FTS                 |       |        |        |        |          |              |               |      |      |       |
| 428.6 > 408.6                   | 4.355 | 4.353  | 0.002  | 1.000  | 35622    | 52.7         |               | 111  | 180  |       |
| * 15 13C2 PFOA                  |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                   | 4.393 | 4.401  | -0.008 |        | 811042   | 50.0         |               |      | 1174 |       |
| D 17 13C4 PFOA                  |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                   | 4.393 | 4.407  | -0.014 | 1.000  | 737134   | 49.1         |               | 98.2 | 9151 |       |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits)   | %Rec | S/N   | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|-----------------|------|-------|-------|
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |                 |      |       | M     |
| 412.9 > 368.8                         | 4.374 | 4.409  | -0.035 | 0.996  | 1210     | 0.0784       |                 |      | 7.7   | M     |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |                 |      |       |       |
| 467.8 > 422.8                         | 5.168 | 5.171  | -0.003 | 1.000  | 921517   | 48.0         |                 | 96.0 | 1450  |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |                 |      |       |       |
| 502.8 > 79.8                          | 5.195 | 5.195  | 0.0    | 1.000  | 116164   | 37.4         |                 | 78.3 | 483   |       |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |                 |      |       |       |
| 528.8 > 508.8                         | 5.926 | 5.929  | -0.003 | 1.000  | 267289   | 52.7         |                 | 110  | 729   |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |                 |      |       | M     |
| 526.8 > 506.5                         | 5.743 | 5.932  | -0.189 | 0.969  | 221      | 0.0551       |                 |      | 1.2   | M     |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |                 |      |       |       |
| 514.9 > 469.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 1003605  | 47.7         |                 | 95.3 | 4585  |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |                 |      |       | M     |
| 512.9 > 468.5                         | 5.974 | 5.956  | 0.018  | 1.004  | 1944     | 0.1216       |                 |      | 6.5   | M     |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |                 |      |       |       |
| 572.8 > 418.8                         | 6.295 | 6.311  | -0.016 | 1.000  | 206073   | 34.8         |                 | 69.5 | 896   |       |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |                 |      |       |       |
| 588.9 > 418.8                         | 6.670 | 6.674  | -0.004 | 1.000  | 224427   | 43.6         |                 | 87.2 | 1257  |       |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |                 |      |       |       |
| 564.8 > 519.8                         | 6.706 | 6.720  | -0.014 | 1.000  | 1241745  | 51.5         |                 | 103  | 12952 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |                 |      |       | M     |
| 562.8 > 518.6                         | 6.688 | 6.720  | -0.032 | 0.997  | 3222     | 0.1464       |                 |      | 18.2  | M     |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |                 |      |       |       |
| 505.8 > 77.8                          | 6.959 | 6.973  | -0.014 | 1.000  | 124181   | 22.6         |                 | 45.1 | 596   |       |
| D 37 13C2 PFDaA                       |       |        |        |        |          |              |                 |      |       |       |
| 614.8 > 569.6                         | 7.384 | 7.402  | -0.018 | 1.000  | 1229598  | 46.5         |                 | 93.0 | 3605  |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |                 |      |       | M     |
| 612.8 > 568.6                         | 7.407 | 7.407  | 0.0    | 1.003  | 633      | 0.0298       |                 |      | 4.4   | M     |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |                 |      |       | M     |
| 662.8 > 618.6                         | 8.029 | 8.020  | 0.009  | 0.938  | 875      | 0.0596       |                 |      | 8.3   | M     |
| D 40 13C2 PFTeDA                      |       |        |        |        |          |              |                 |      |       |       |
| 714.8 > 669.6                         | 8.560 | 8.563  | -0.003 | 1.000  | 788173   | 30.7         |                 | 61.3 | 1021  |       |
| 39 Perfluorotetradecanoic acid        |       |        |        |        |          |              |                 |      |       | M     |
| 712.8 > 668.6                         | 8.575 | 8.567  | 0.008  | 1.002  | 621      | 0.0403       |                 |      | 2.8   | M     |
| 712.8 > 168.8                         | 8.560 | 8.567  | -0.007 | 0.000  | 0        |              | 0.00(0.00-0.00) |      |       |       |
| 712.8 > 218.8                         | 8.560 | 8.567  | -0.007 | 0.000  | 0        |              | 0.00(0.00-0.00) |      |       |       |

## QC Flag Legend

Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A17.d

Injection Date: 12-Oct-2018 20:23:28

Instrument ID: LC410

Lims ID: MB 200-134904/1-A

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

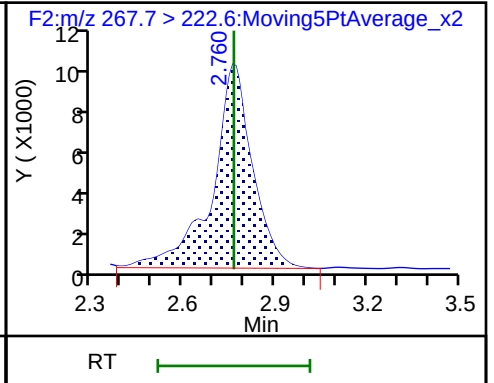
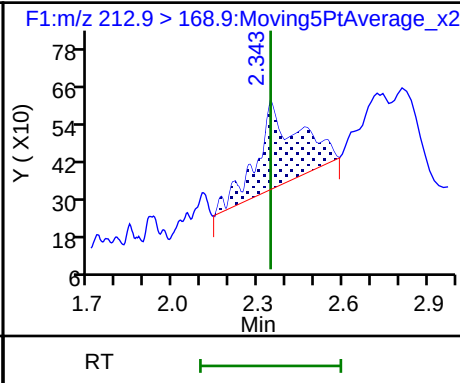
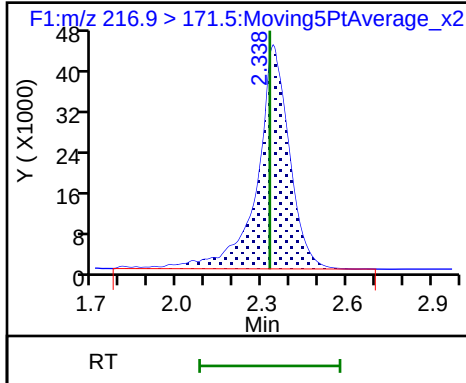
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid (M)

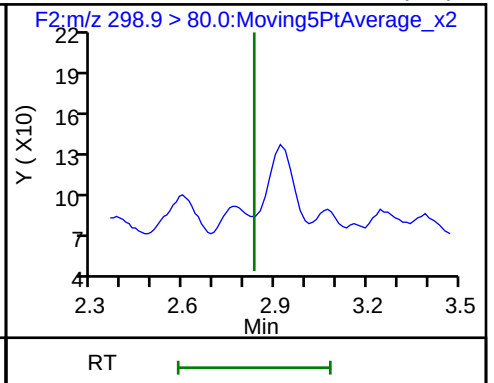
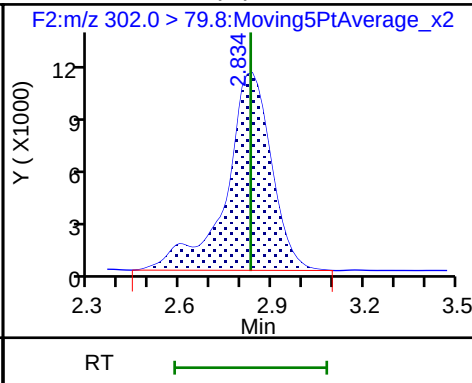
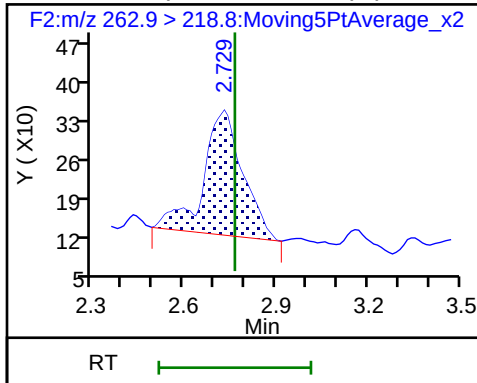
D 3 13C5 PFPeA (M)



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS (M)

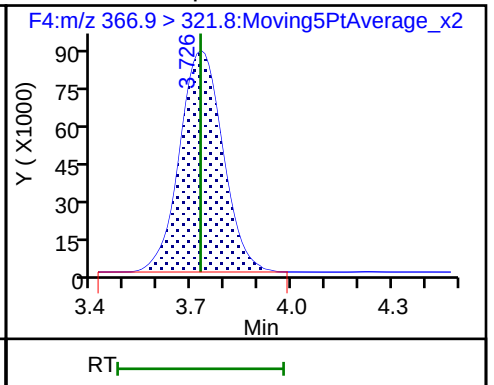
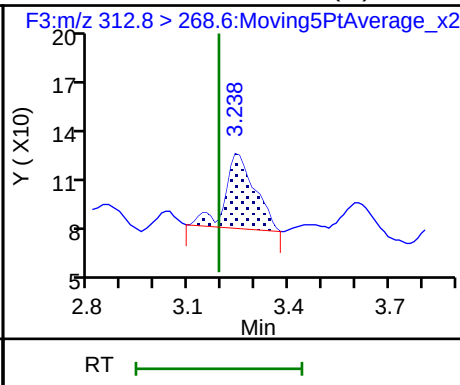
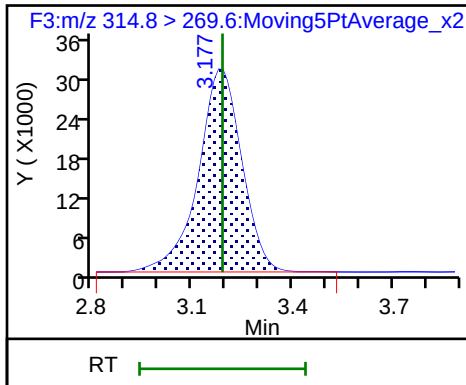
5 Perfluorobutanesulfonic acid (ND)



D 7 13C2 PFHxA

8 Perfluorohexanoic acid (M)

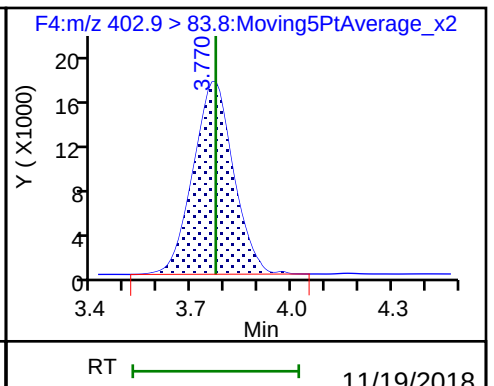
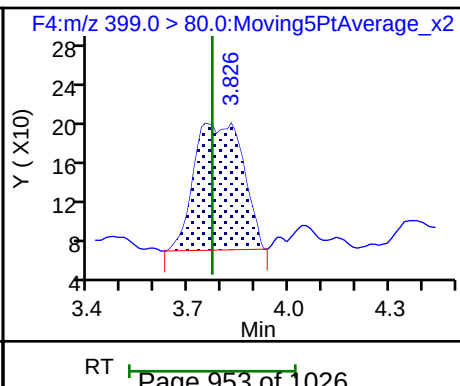
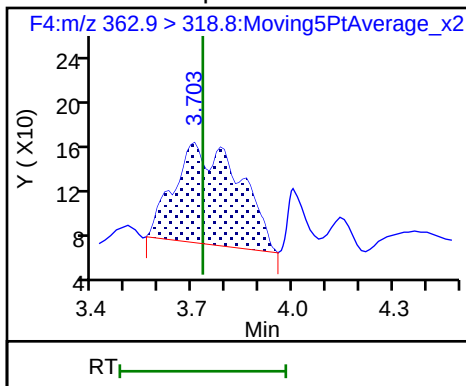
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

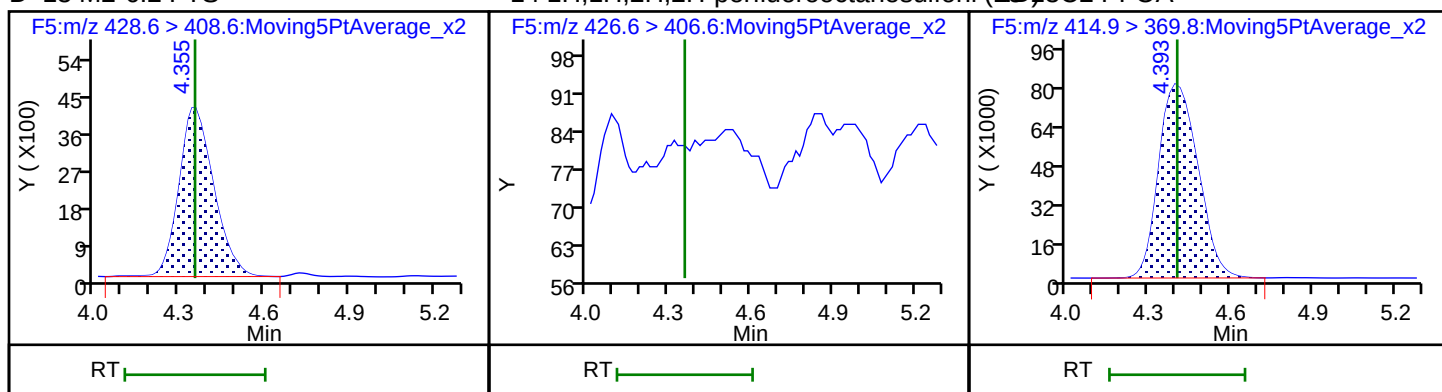
D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate (M)

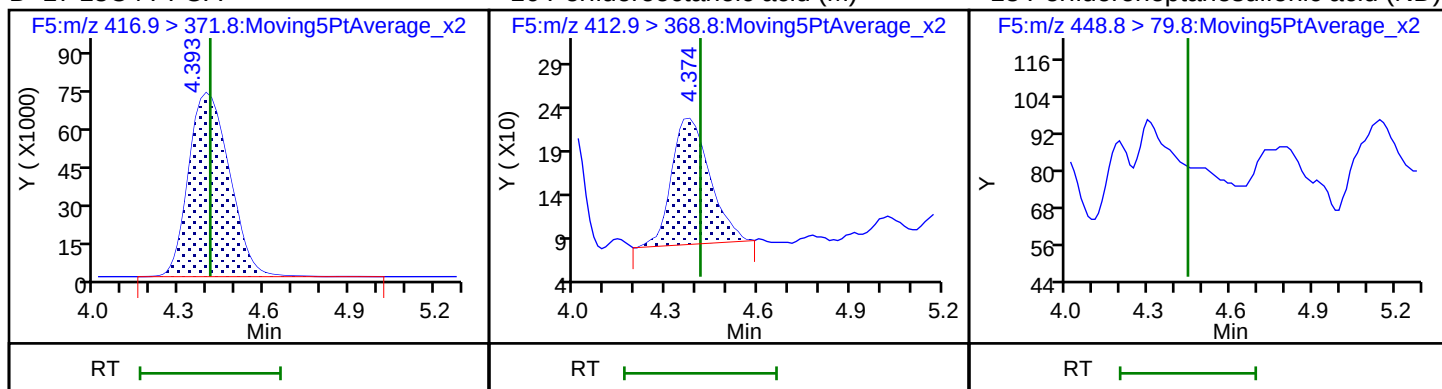
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid (M)

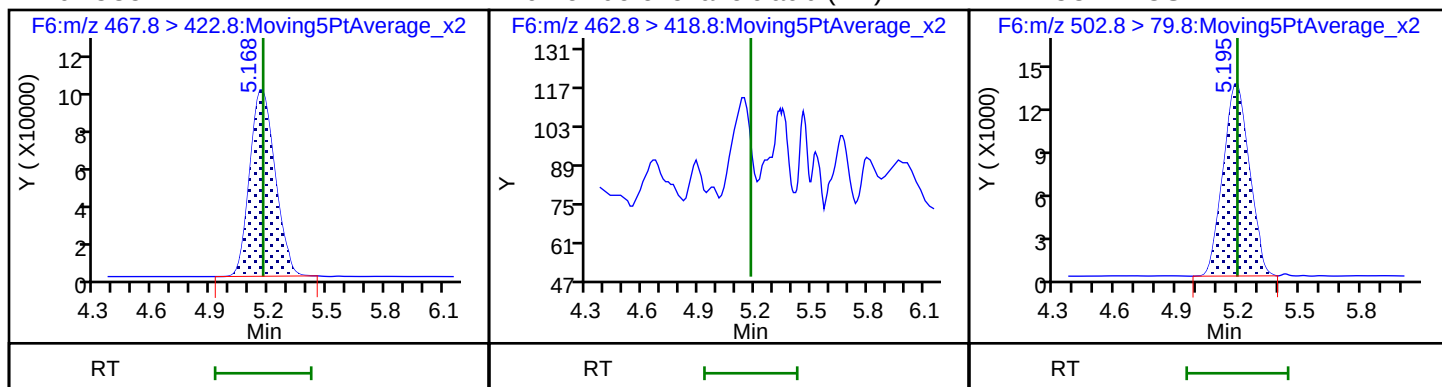
18 Perfluoroheptanesulfonic acid (ND)



D 20 13C5 PFNA

19 Perfluorononanoic acid (ND)

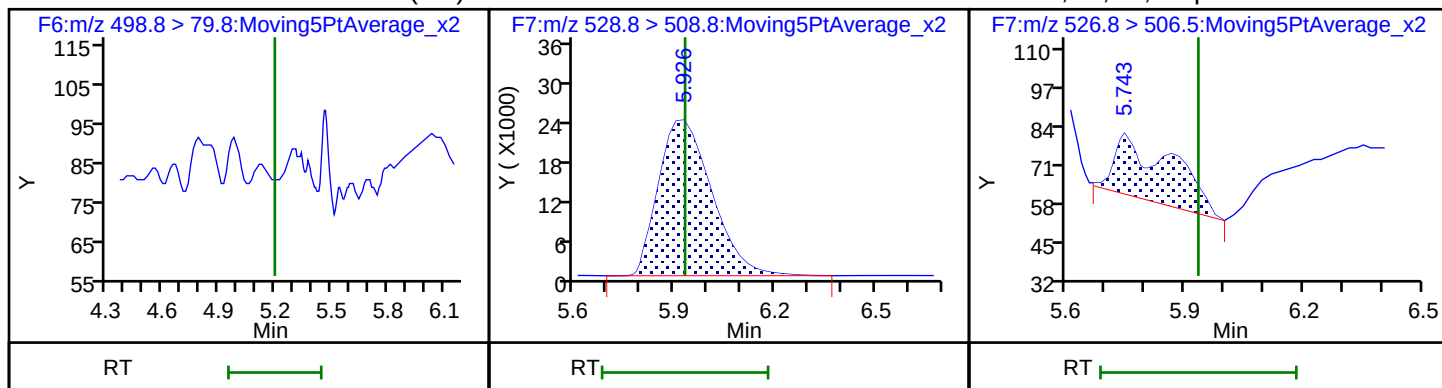
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (ND)

D 24 M2-8:2 FTS

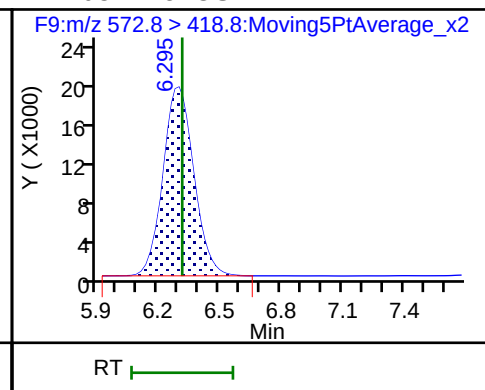
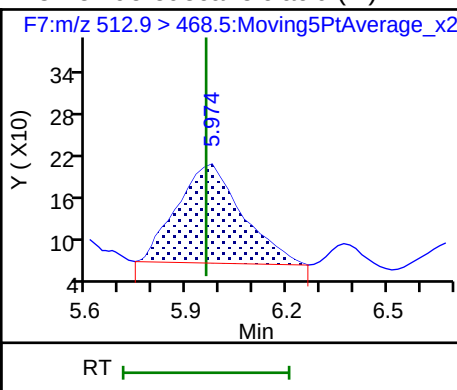
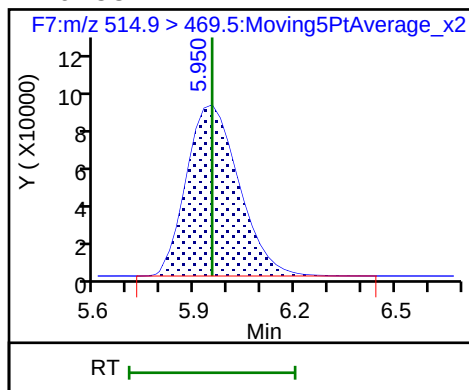
23 1H,1H,2H,2H-perfluorodecanesulfonate (M)



## D 26 13C2 PFDA

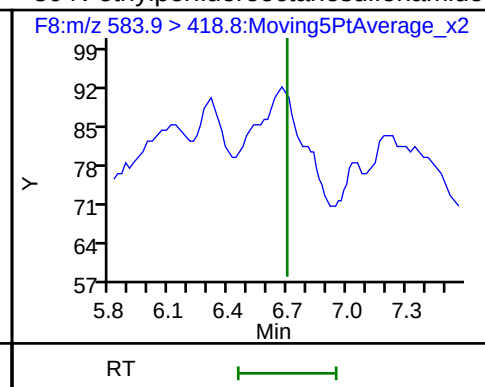
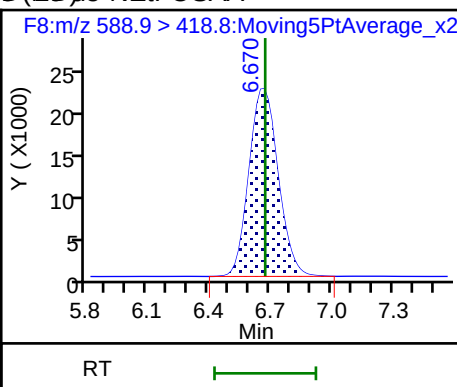
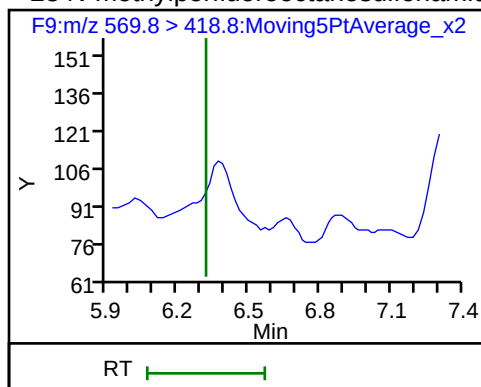
## 25 Perfluorodecanoic acid (M)

## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamide (ND)

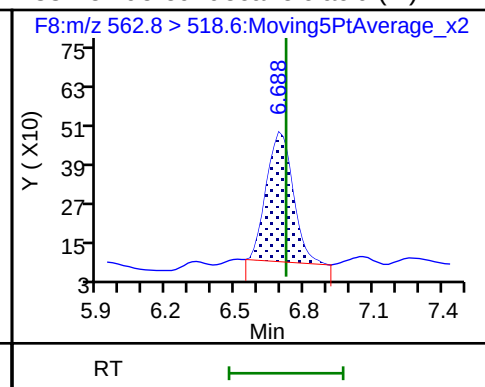
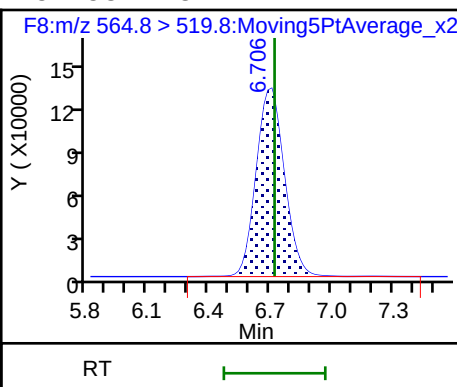
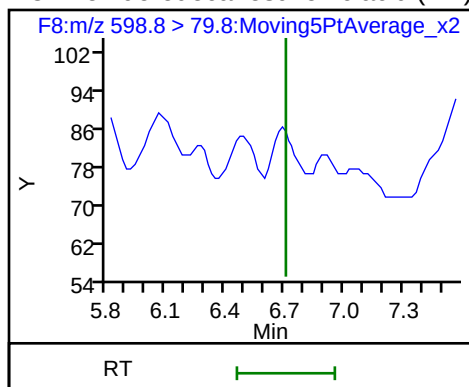
## 30 N-ethylperfluorooctanesulfonamide (ND)



## 31 Perfluorodecanesulfonic acid (ND)

## D 32 13C2 PFUnA

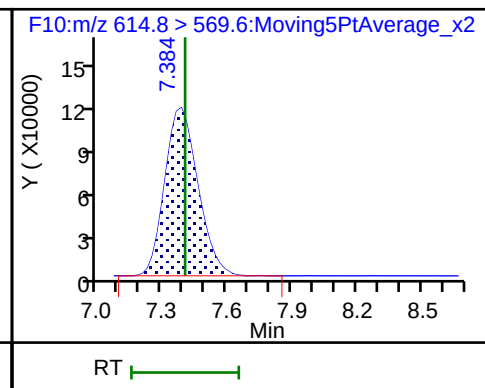
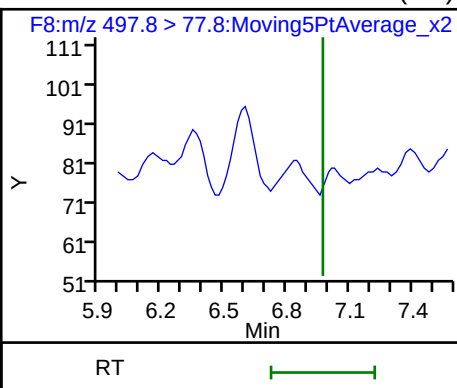
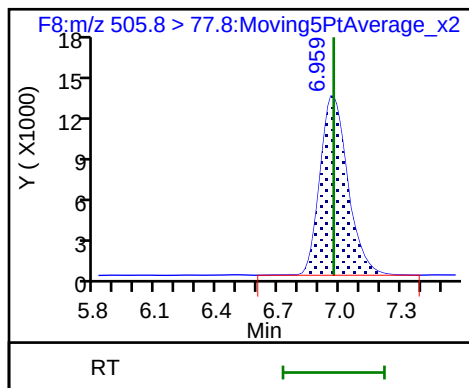
## 33 Perfluoroundecanoic acid (M)



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide (ND)

## D 37 13C2 PFDaA



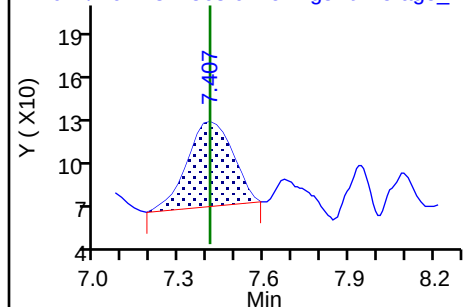


## 36 Perfluorododecanoic acid (M)

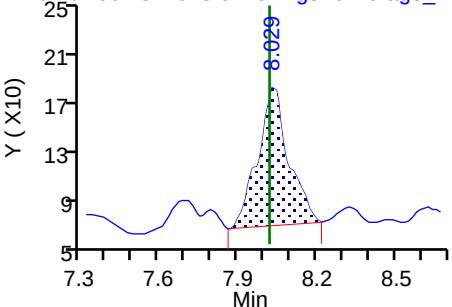
## 38 Perfluorotridecanoic acid (M)

## D 40 13C2 PFTeDA

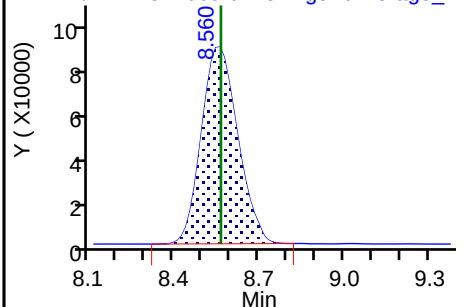
F10:m/z 612.8 &gt; 568.6:Moving5PtAverage\_x2



F10:m/z 662.8 &gt; 618.6:Moving5PtAverage\_x2



F11:m/z 714.8 &gt; 669.6:Moving5PtAverage\_x2

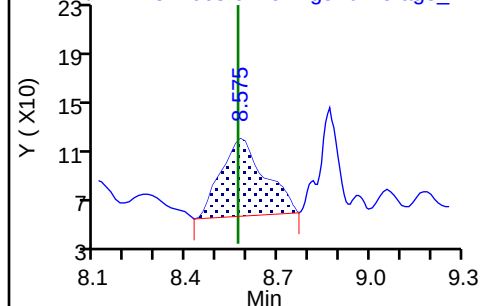


## 39 Perfluorotetradecanoic acid (M)

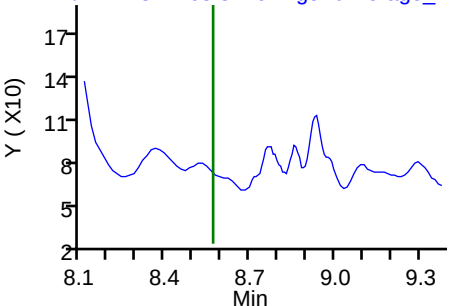
## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

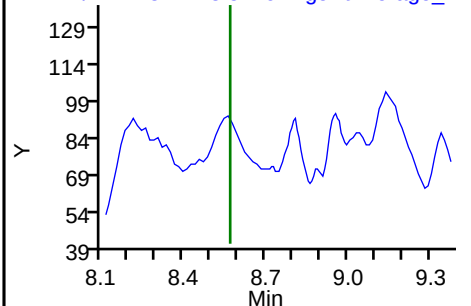
F11:m/z 712.8 &gt; 668.6:Moving5PtAverage\_x2



F11:m/z 712.8 &gt; 168.8:Moving5PtAverage\_x2



F11:m/z 712.8 &gt; 218.8:Moving5PtAverage\_x2



## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d

Injection Date: 12-Oct-2018 20:23:28

Instrument ID: LC410

Lims ID: MB 200-134904/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

Detector F1:MRM

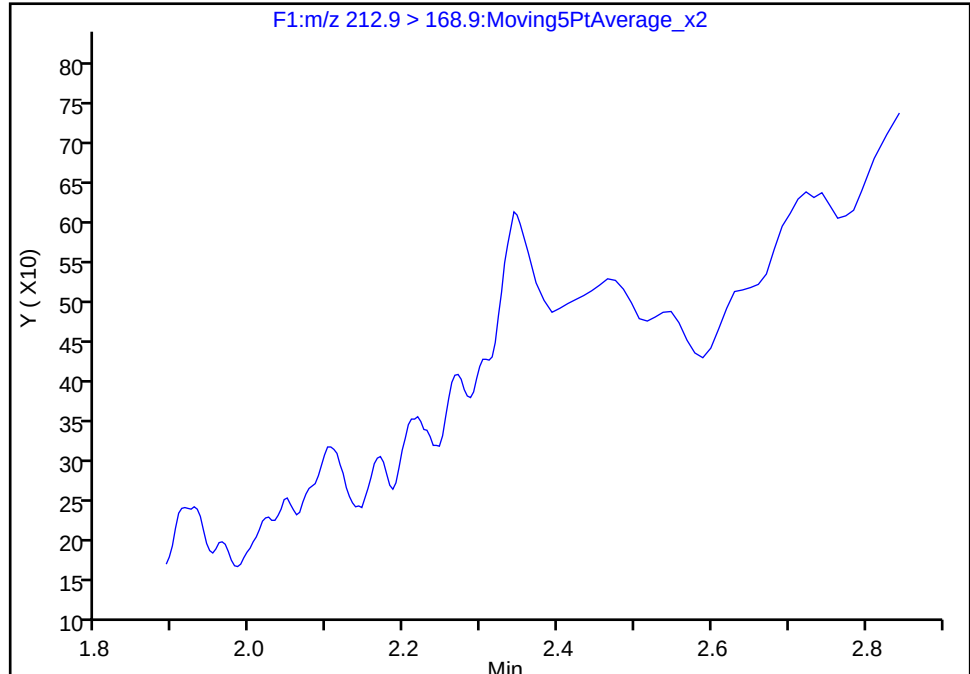
**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

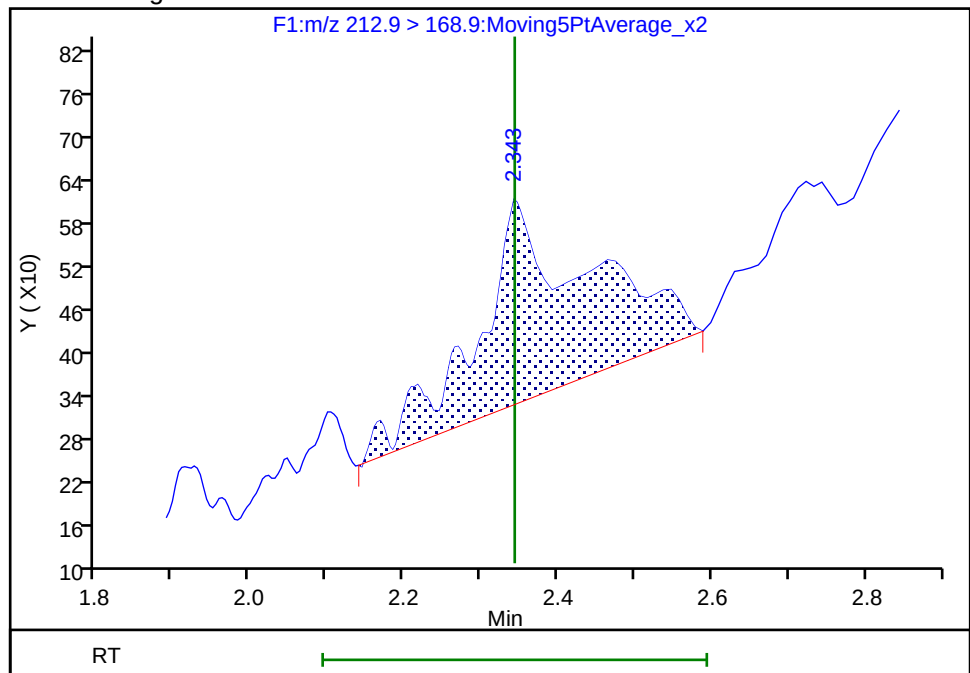
Not Detected

Expected RT: 2.34

## Processing Integration Results



## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:21:14

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d

Injection Date: 12-Oct-2018 20:23:28

Instrument ID: LC410

Lims ID: MB 200-134904/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFCISO\_12MRM

Limit Group:

LC\_PFC\_ICAL

Column:

Detector

F2:MRM

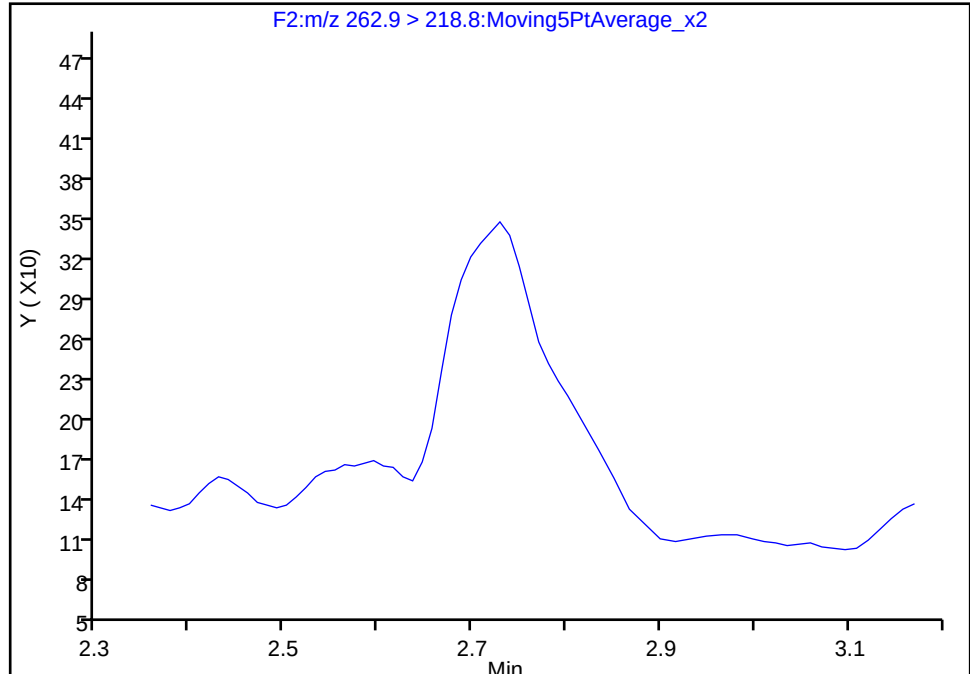
**4 Perfluoropentanoic acid, CAS: 2706-90-3**

Signal: 1

Not Detected

Expected RT: 2.76

## Processing Integration Results



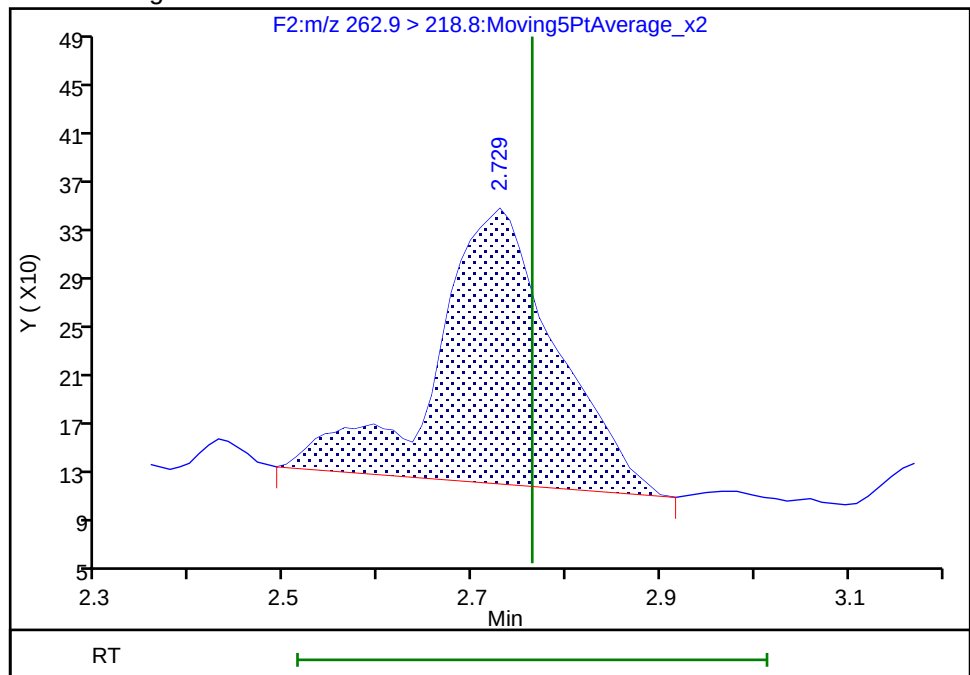
RT: 2.73

Area: 2012

Amount: 0.162096

Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:21:04

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

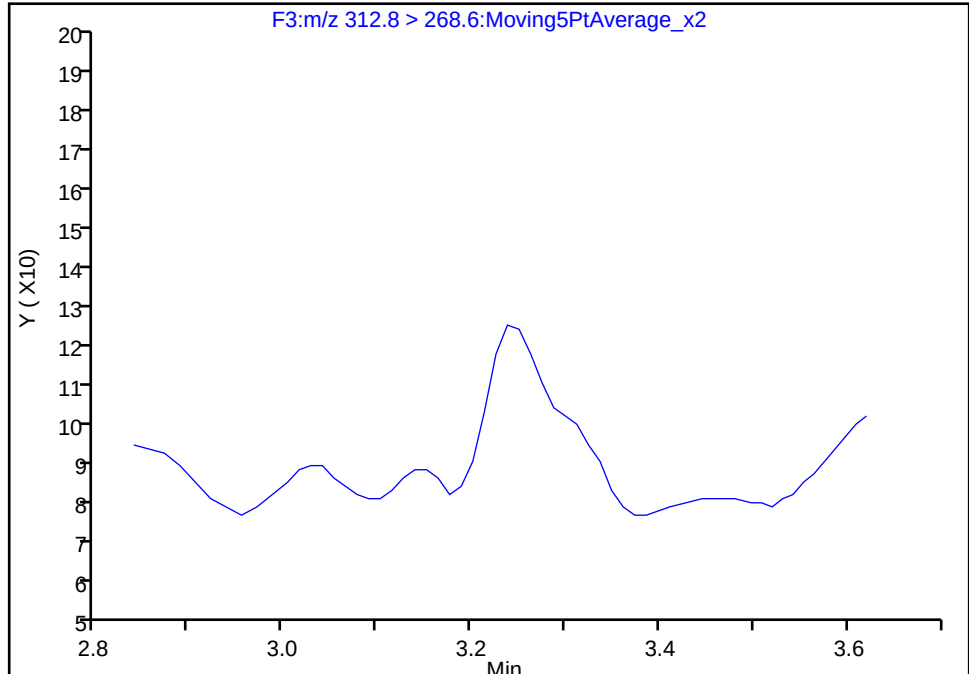
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d |                |             |
| Injection Date: | 12-Oct-2018 20:23:28                                                | Instrument ID: | LC410       |
| Lims ID:        | MB 200-134904/1-A                                                   |                |             |
| Client ID:      |                                                                     |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector:      | F3:MRM      |
|                 |                                                                     | Worklist Smp#: | 17          |

**8 Perfluorohexanoic acid, CAS: 307-24-4**

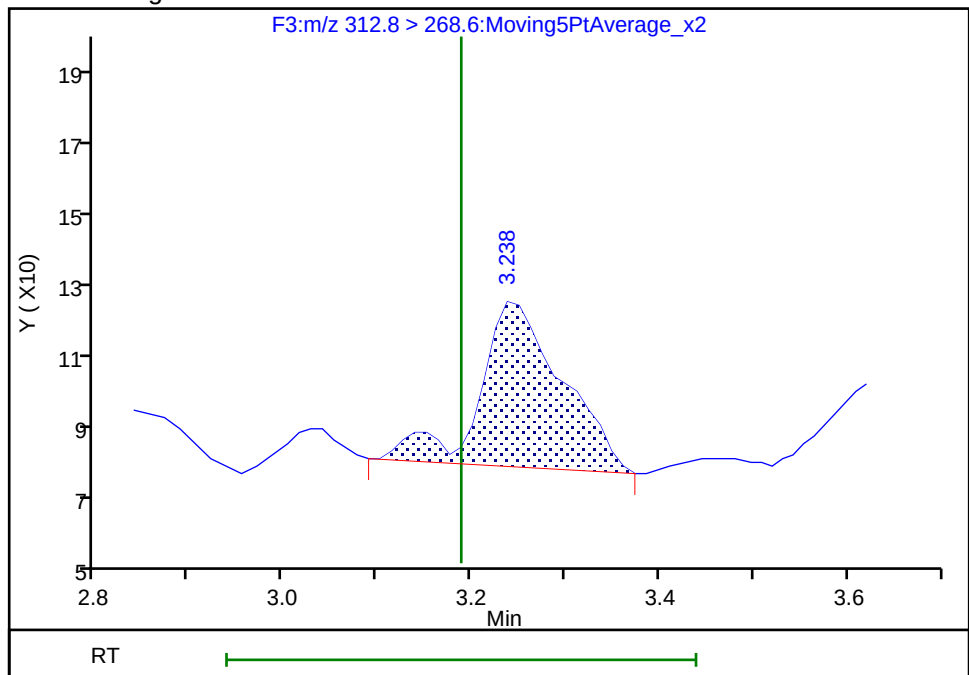
Signal: 1

Not Detected  
Expected RT: 3.19

## Processing Integration Results



## Manual Integration Results

RT: 3.24  
Area: 271  
Amount: 0.045178  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:20:57

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

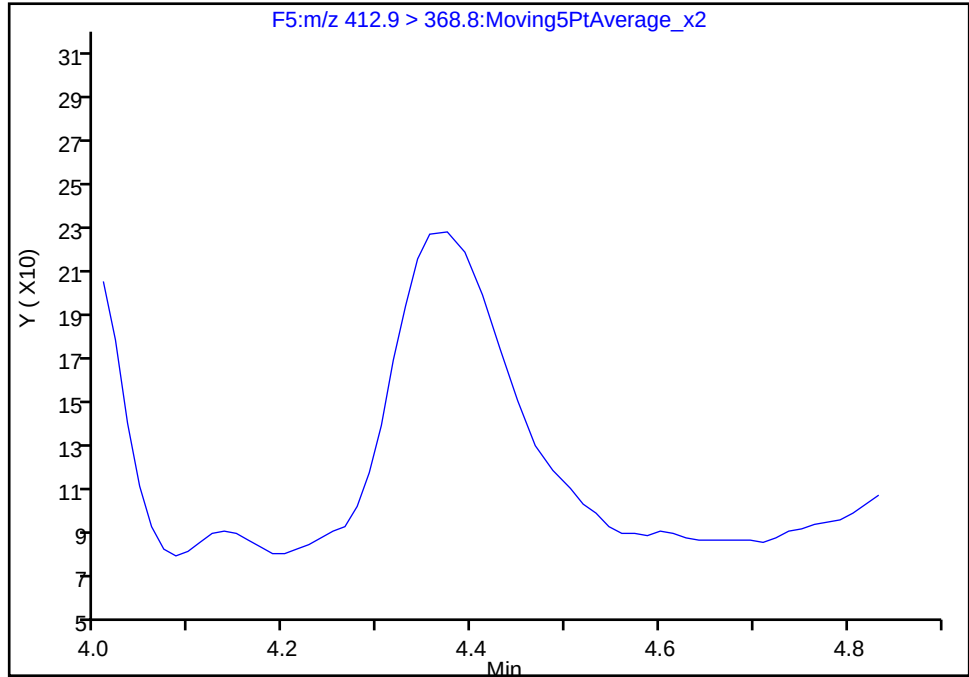
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d  
Injection Date: 12-Oct-2018 20:23:28 Instrument ID: LC410  
Lims ID: MB 200-134904/1-A  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F5:MRM

**16 Perfluorooctanoic acid, CAS: 335-67-1**

Signal: 1

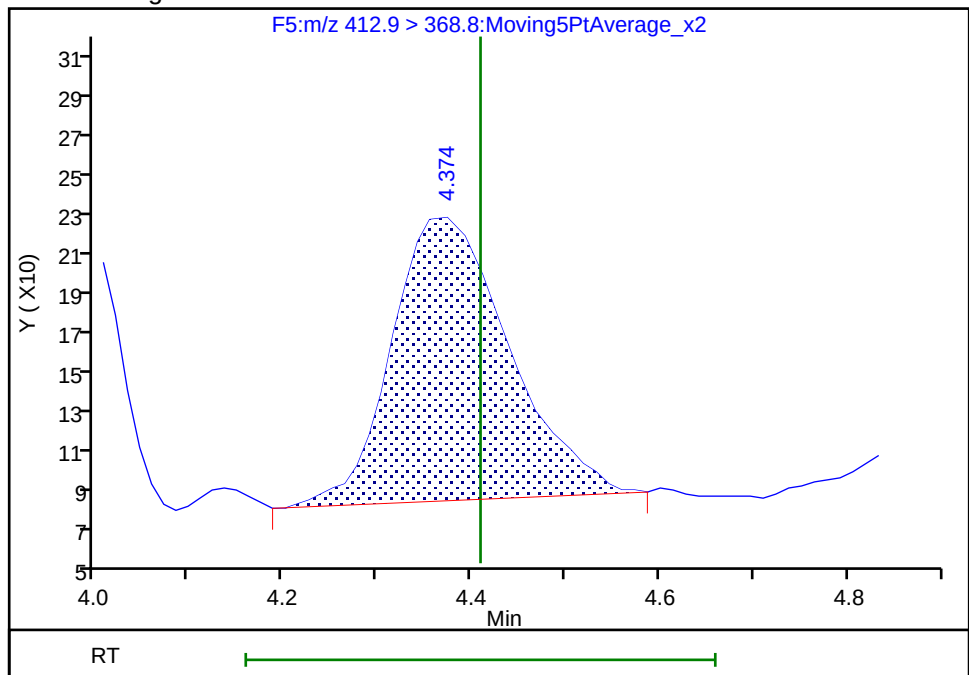
Not Detected  
Expected RT: 4.41

## Processing Integration Results



RT: 4.37  
Area: 1210  
Amount: 0.078405  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:20:48  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d

Injection Date: 12-Oct-2018 20:23:28

Instrument ID: LC410

Lims ID: MB 200-134904/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

Detector F7:MRM

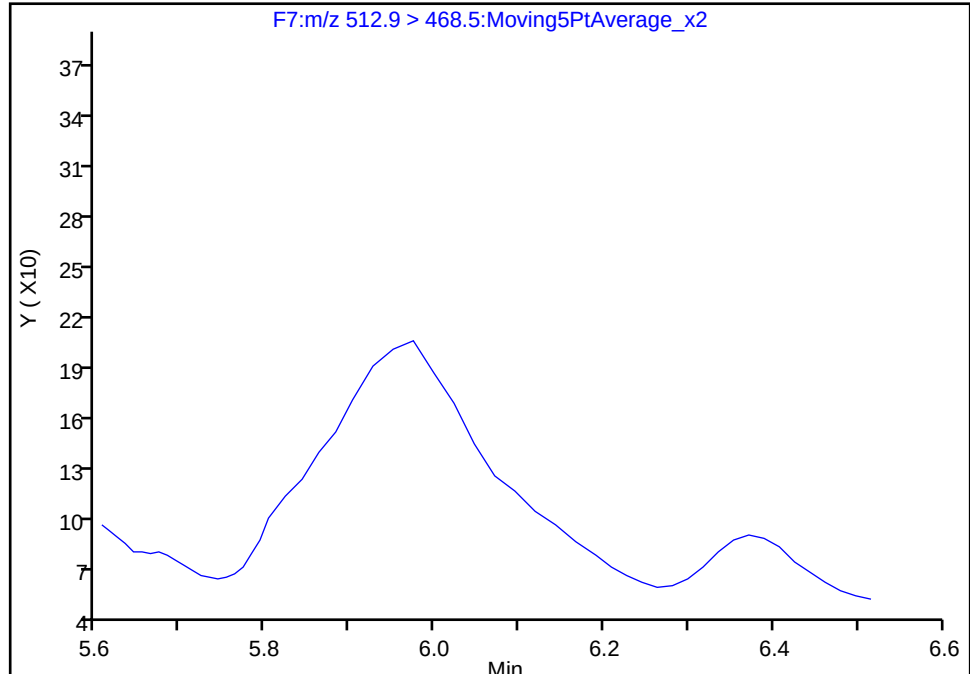
**25 Perfluorodecanoic acid, CAS: 335-76-2**

Signal: 1

Not Detected

Expected RT: 5.96

## Processing Integration Results



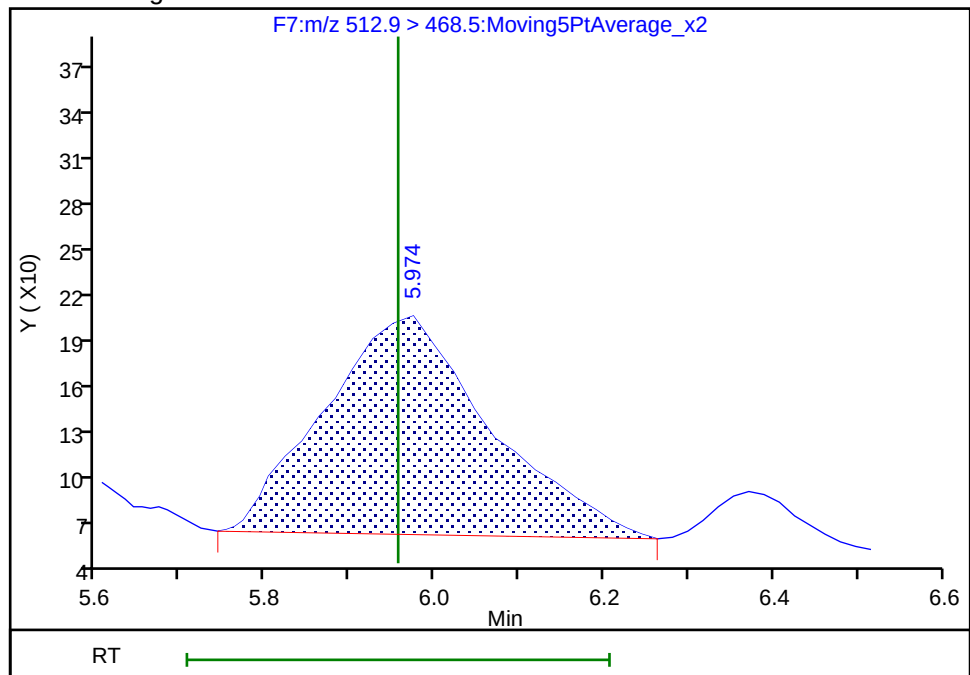
RT: 5.97

Area: 1944

Amount: 0.121645

Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:20:25

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A17.d

Injection Date: 12-Oct-2018 20:23:28

Instrument ID: LC410

Lims ID: MB 200-134904/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

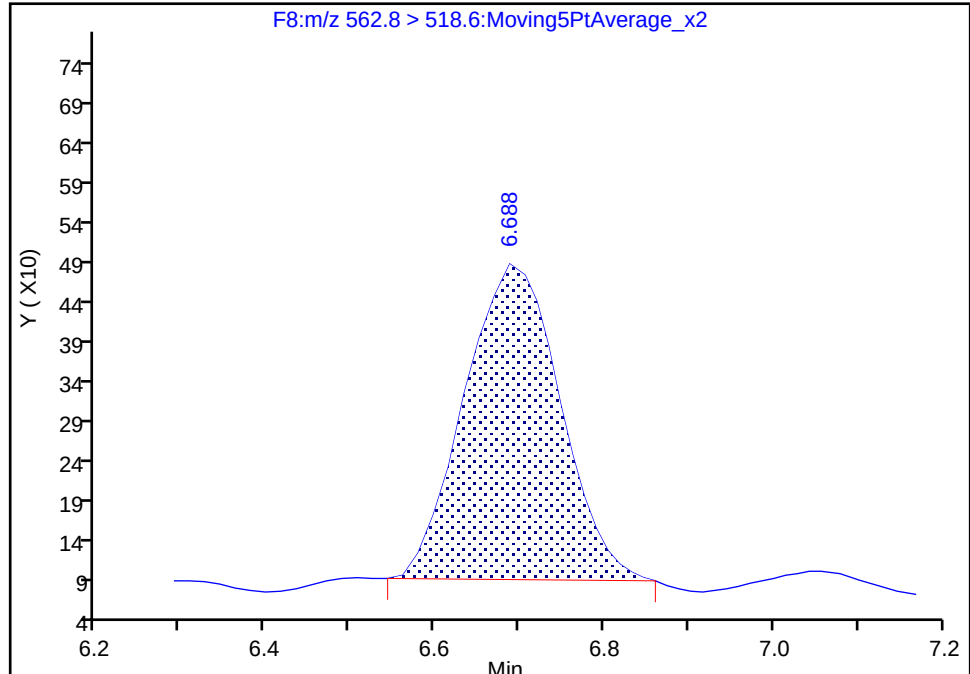
Detector F8:MRM

**33 Perfluoroundecanoic acid, CAS: 2058-94-8**

Signal: 1

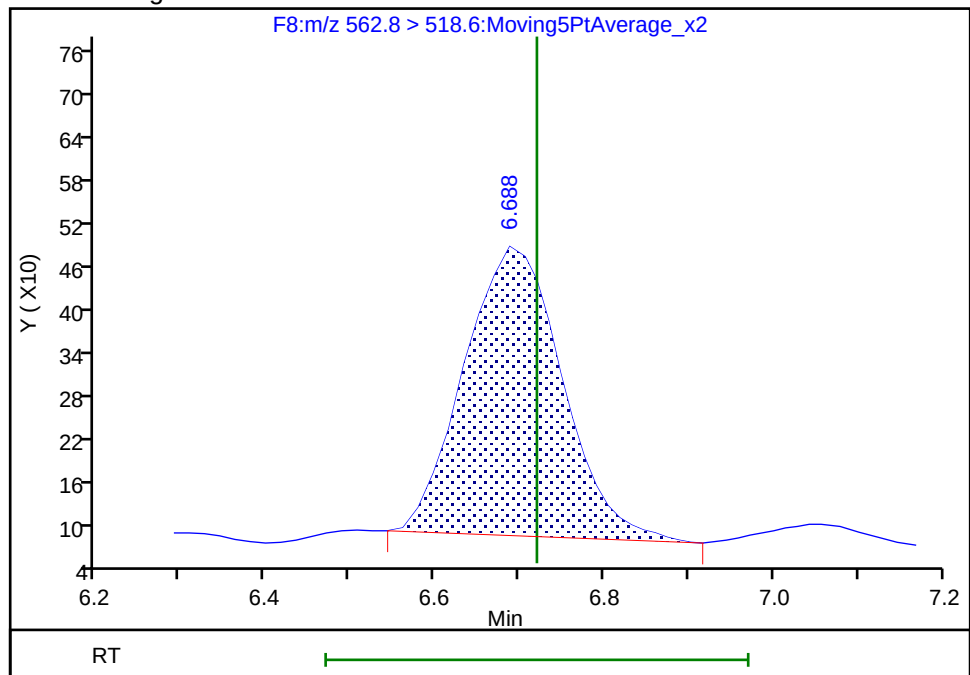
RT: 6.69  
Area: 3101  
Amount: 0.140946  
Amount Units: ng/ml

## Processing Integration Results



RT: 6.69  
Area: 3222  
Amount: 0.146445  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:19:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

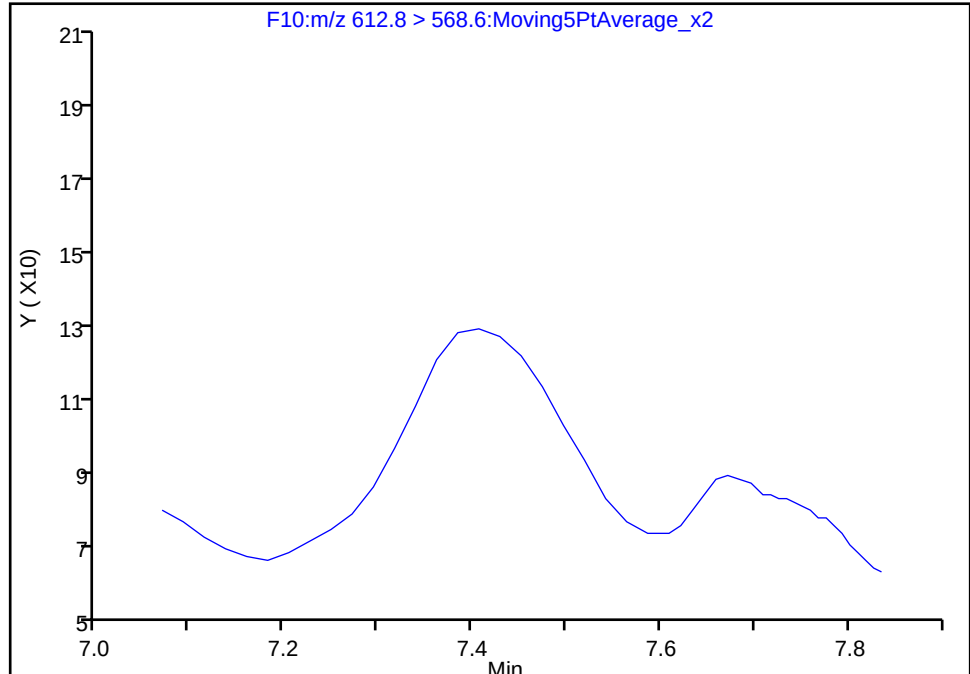
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d  
Injection Date: 12-Oct-2018 20:23:28 Instrument ID: LC410  
Lims ID: MB 200-134904/1-A  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F10:MRM

**36 Perfluorododecanoic acid, CAS: 307-55-1**

Signal: 1

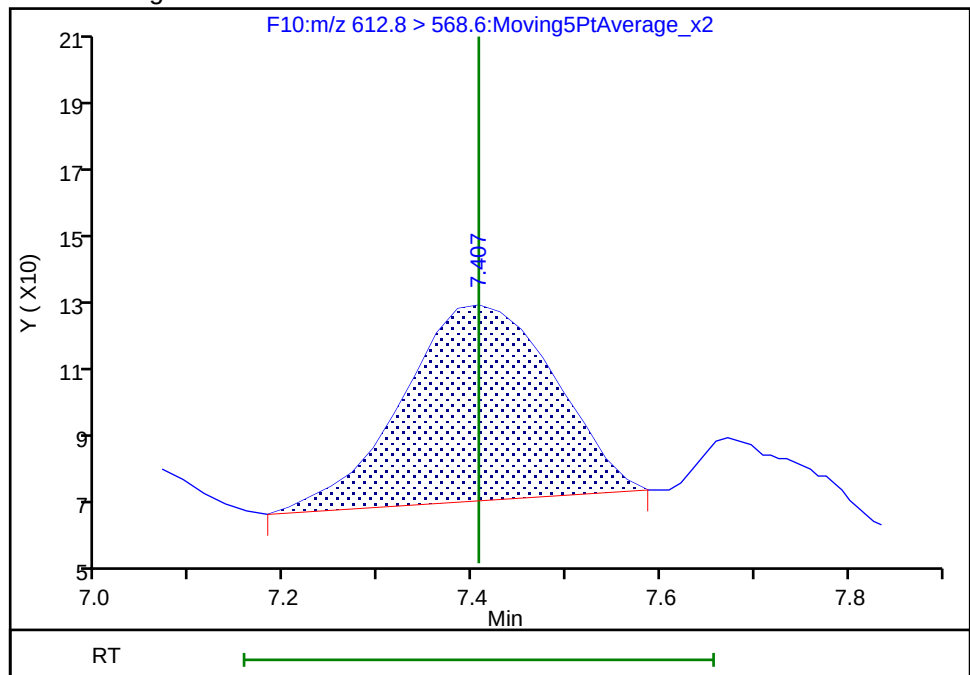
Not Detected  
Expected RT: 7.41

## Processing Integration Results



## Manual Integration Results

RT: 7.41  
Area: 633  
Amount: 0.029759  
Amount Units: ng/ml



Reviewer: chirgwinb, 13-Oct-2018 10:20:09

Audit Action: Manually Integrated

Audit Reason: Missed Peak



## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d

Injection Date: 12-Oct-2018 20:23:28

Instrument ID: LC410

Lims ID: MB 200-134904/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

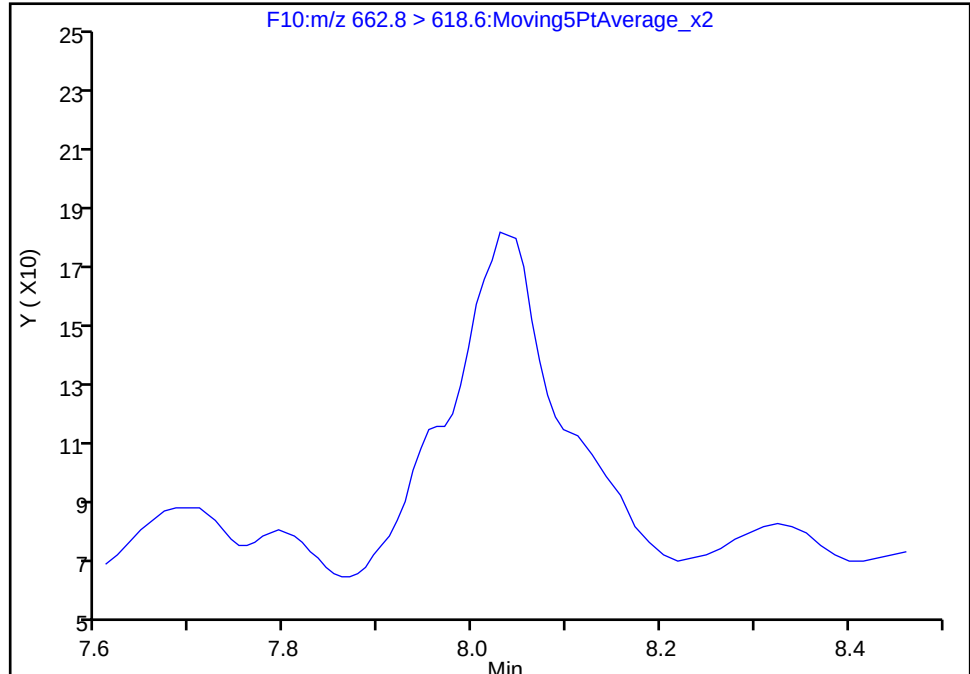
Detector F10:MRM

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

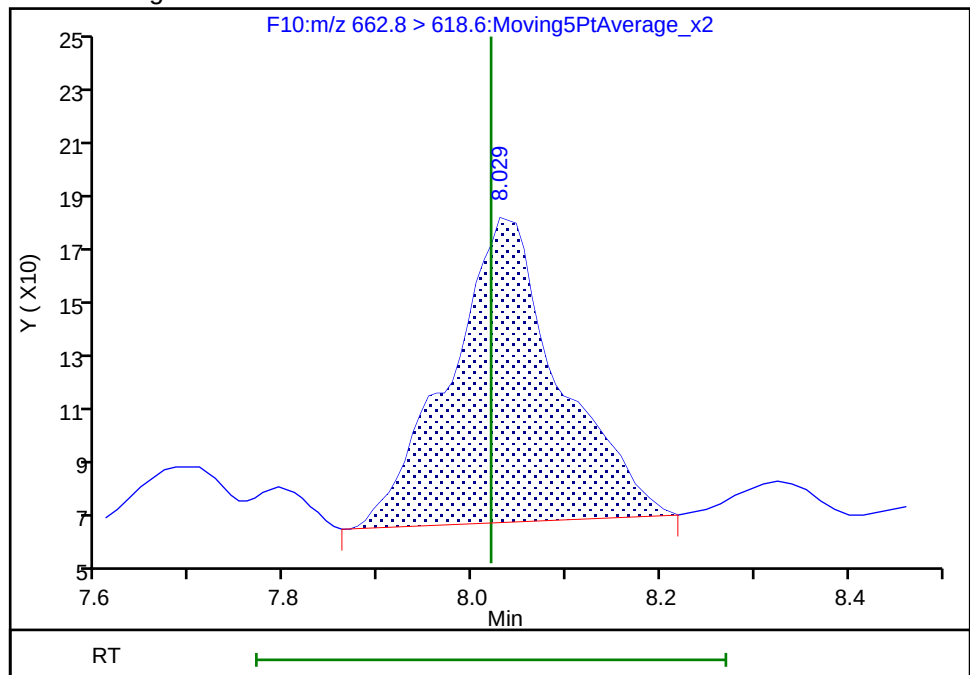
Signal: 1

Not Detected  
Expected RT: 8.02

## Processing Integration Results



## Manual Integration Results

RT: 8.03  
Area: 875  
Amount: 0.059646  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:20:04

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

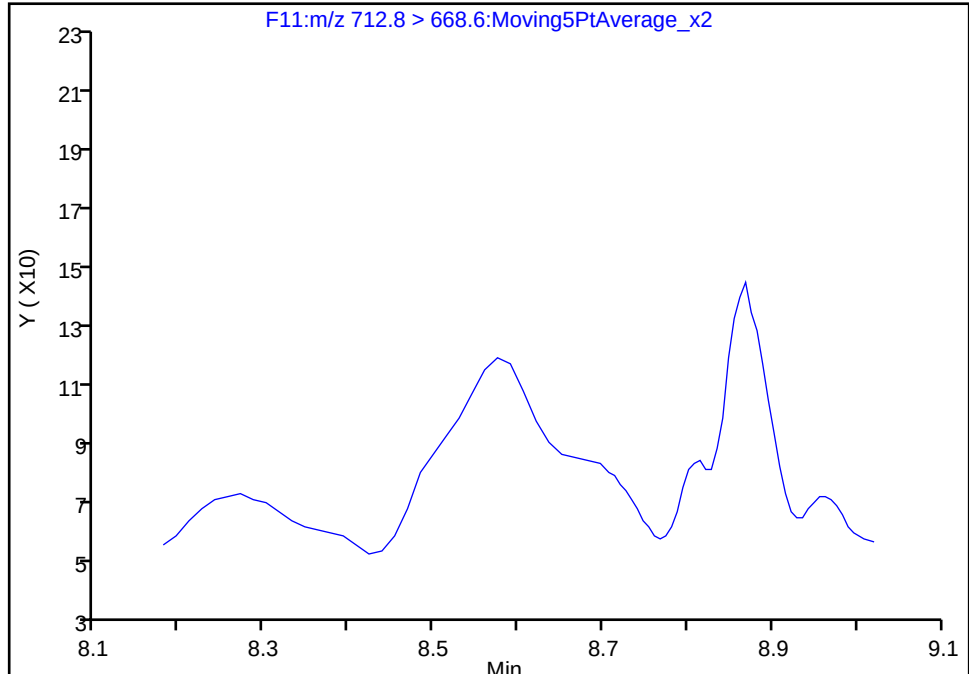
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d  
Injection Date: 12-Oct-2018 20:23:28 Instrument ID: LC410  
Lims ID: MB 200-134904/1-A  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F11:MRM

**39 Perfluorotetradecanoic acid, CAS: 376-06-7**

Signal: 1

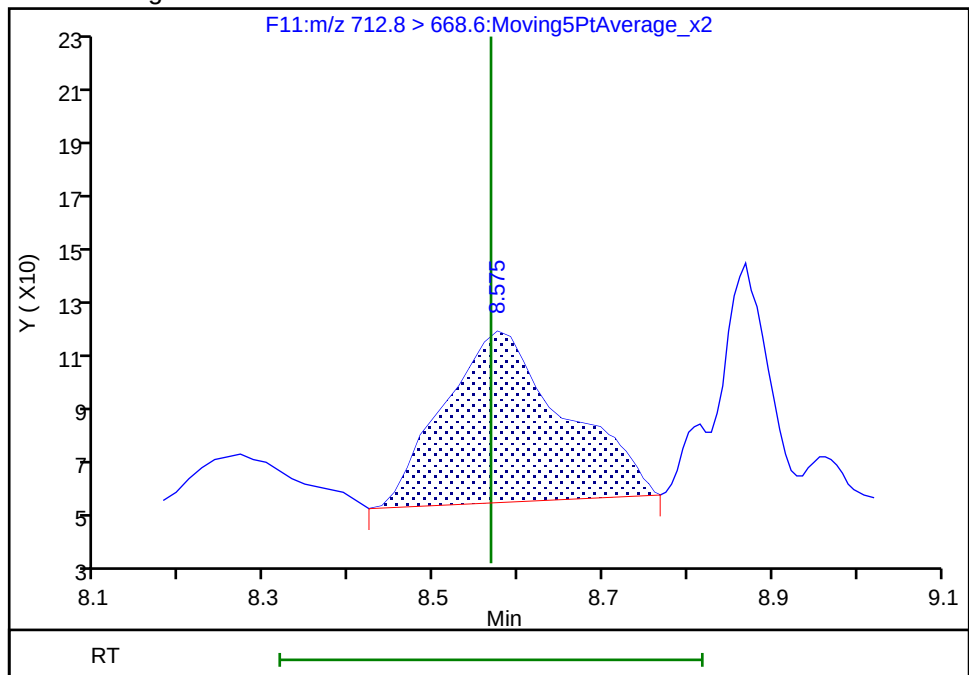
Not Detected  
Expected RT: 8.57

## Processing Integration Results



## Manual Integration Results

RT: 8.58  
Area: 621  
Amount: 0.040286  
Amount Units: ng/ml



Reviewer: chirgwinb, 13-Oct-2018 10:19:59

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

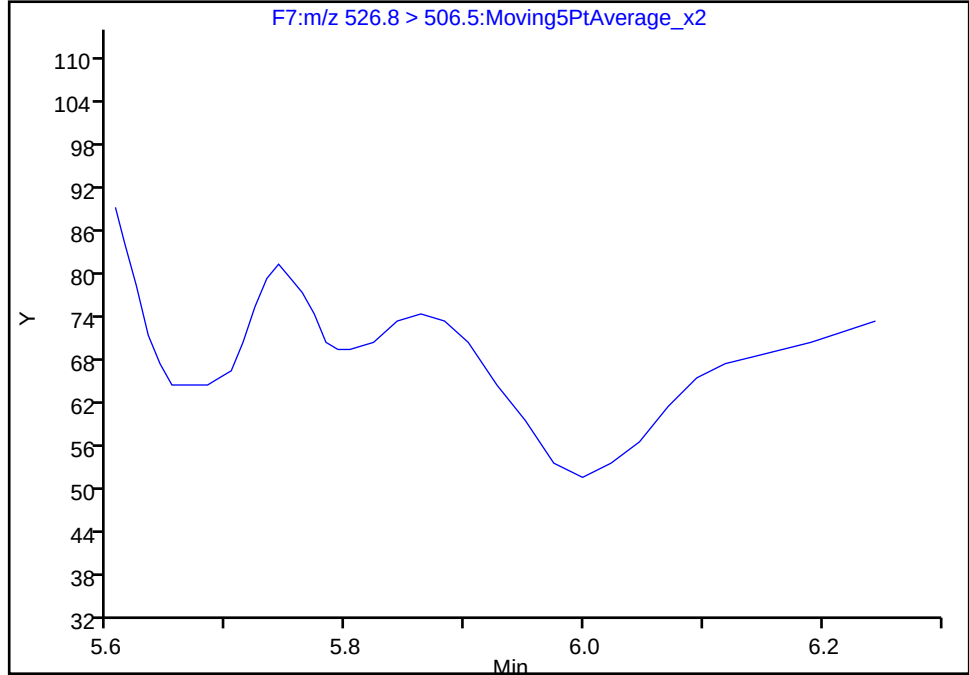
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d  
Injection Date: 12-Oct-2018 20:23:28 Instrument ID: LC410  
Lims ID: MB 200-134904/1-A  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F7:MRM

23 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

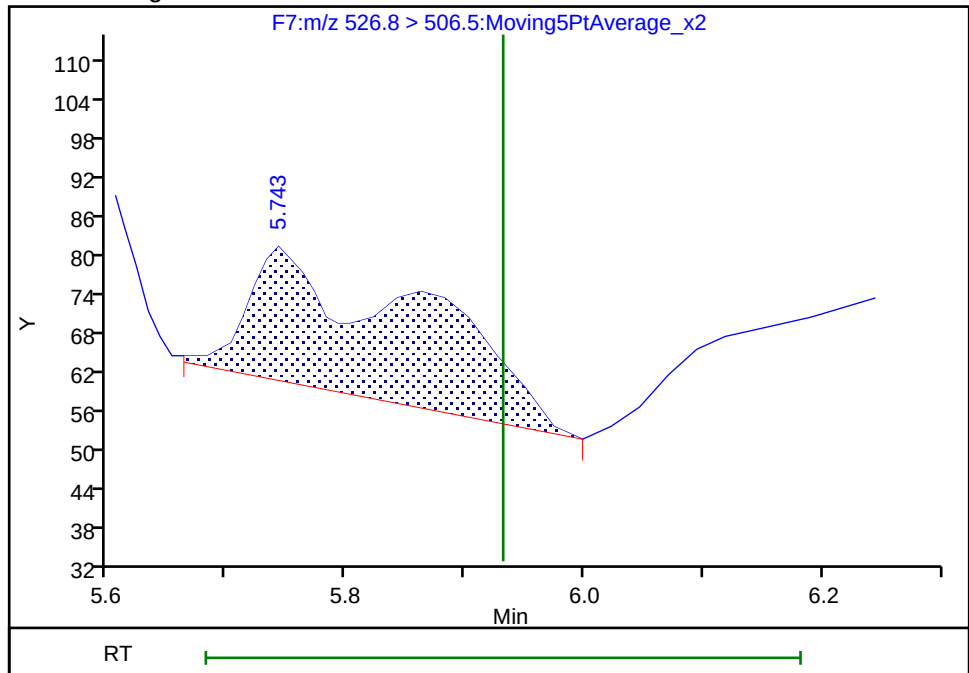
Not Detected  
Expected RT: 5.93

## Processing Integration Results



RT: 5.74  
Area: 221  
Amount: 0.055083  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:20:37

Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d

Injection Date: 12-Oct-2018 20:23:28

Instrument ID: LC410

Lims ID: MB 200-134904/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

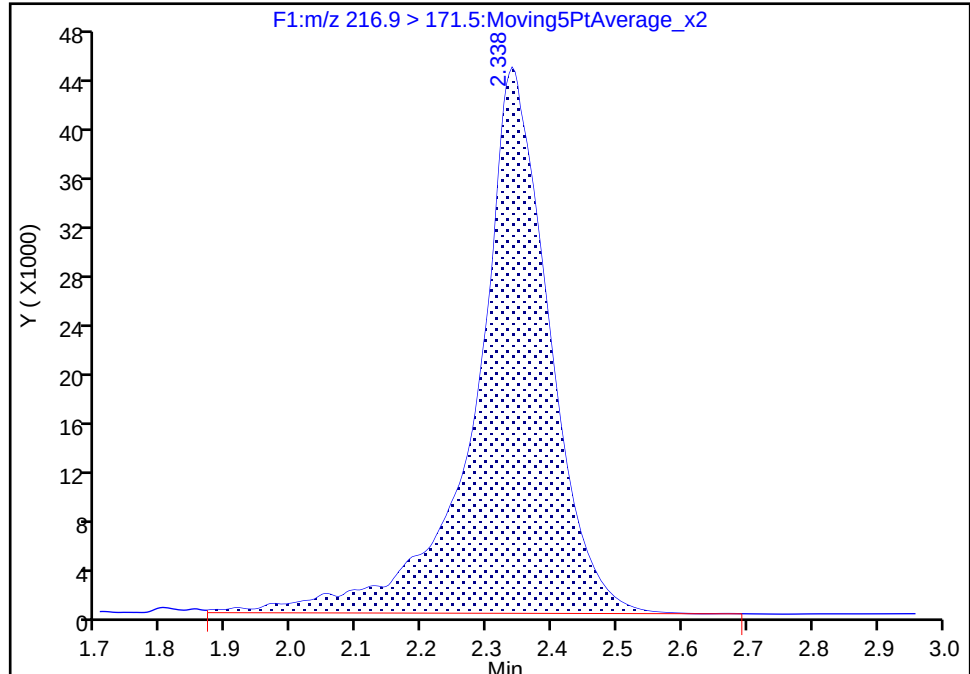
Detector F1:MRM

**D 1 13C4 PFBA, CAS: STL00992**

Signal: 1

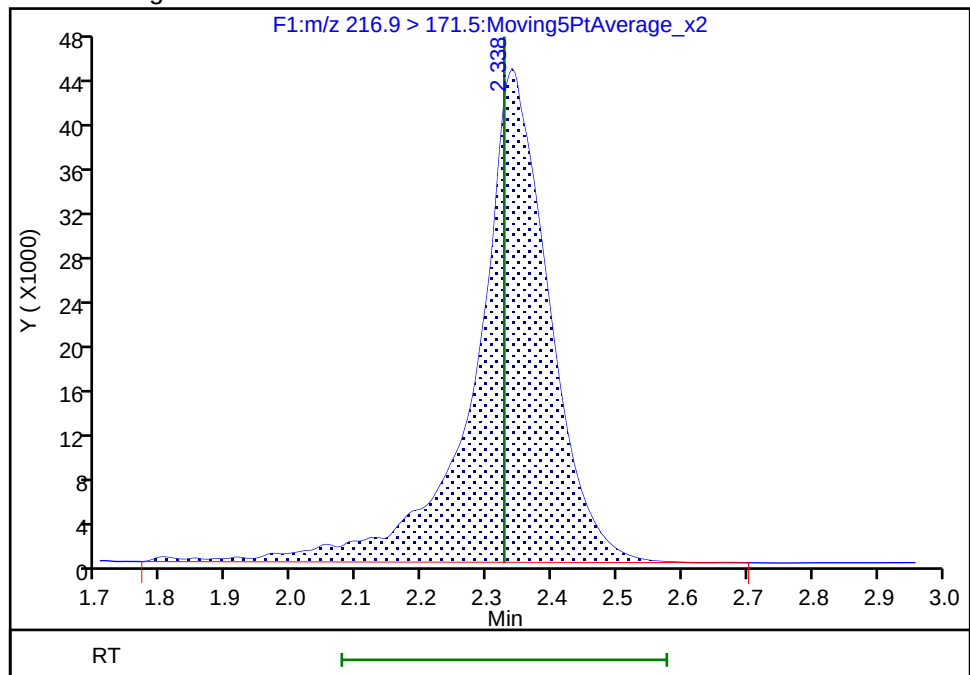
RT: 2.34  
Area: 349203  
Amount: 39.931166  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.34  
Area: 350685  
Amount: 40.100632  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:19:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d

Injection Date: 12-Oct-2018 20:23:28

Instrument ID: LC410

Lims ID: MB 200-134904/1-A

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

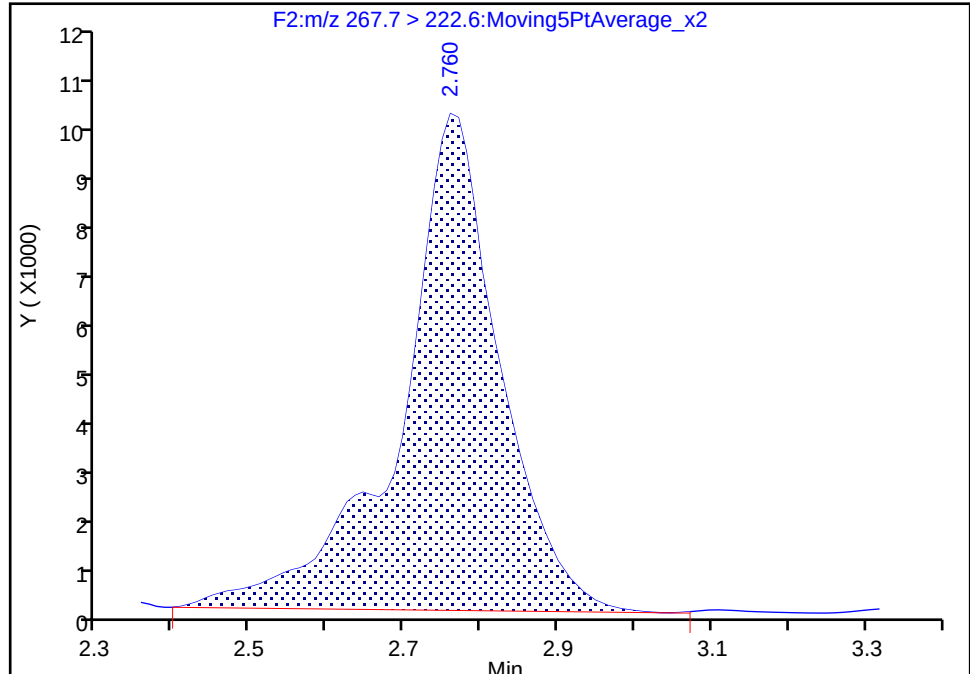
Detector F2:MRM

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

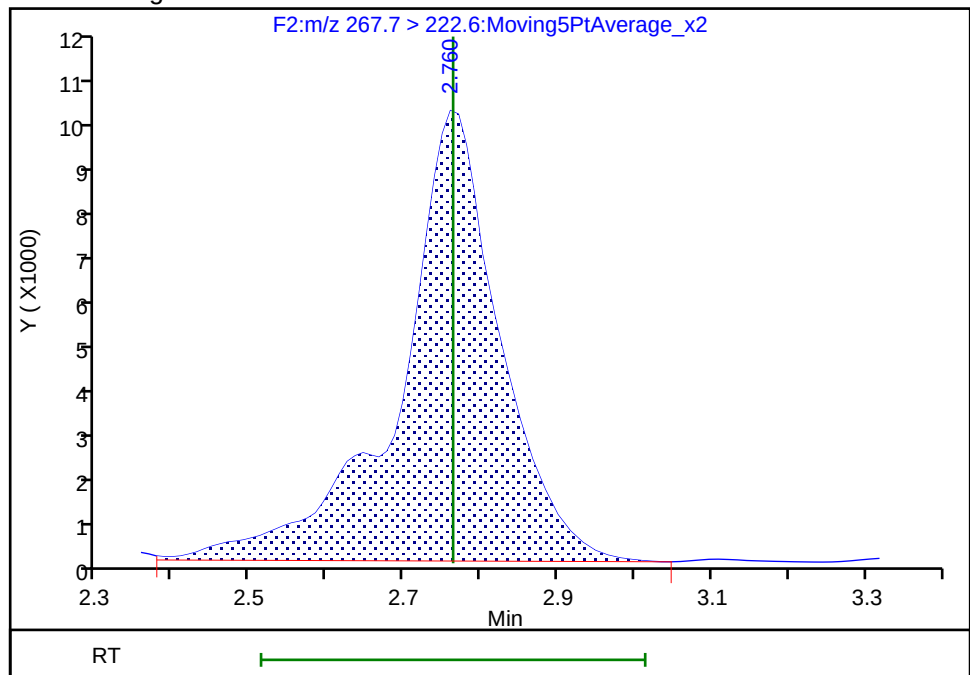
RT: 2.76  
Area: 90318  
Amount: 43.053698  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.76  
Area: 91653  
Amount: 43.690079  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:19:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

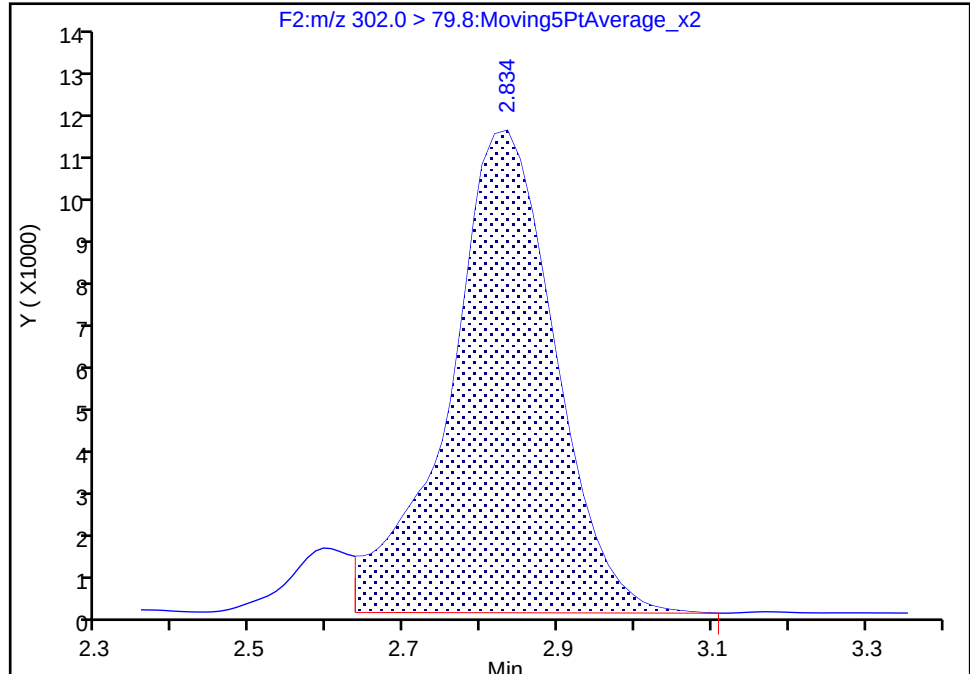
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A17.d  
Injection Date: 12-Oct-2018 20:23:28 Instrument ID: LC410  
Lims ID: MB 200-134904/1-A  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 6 13C3 PFBS, CAS: STL02337**

Signal: 1

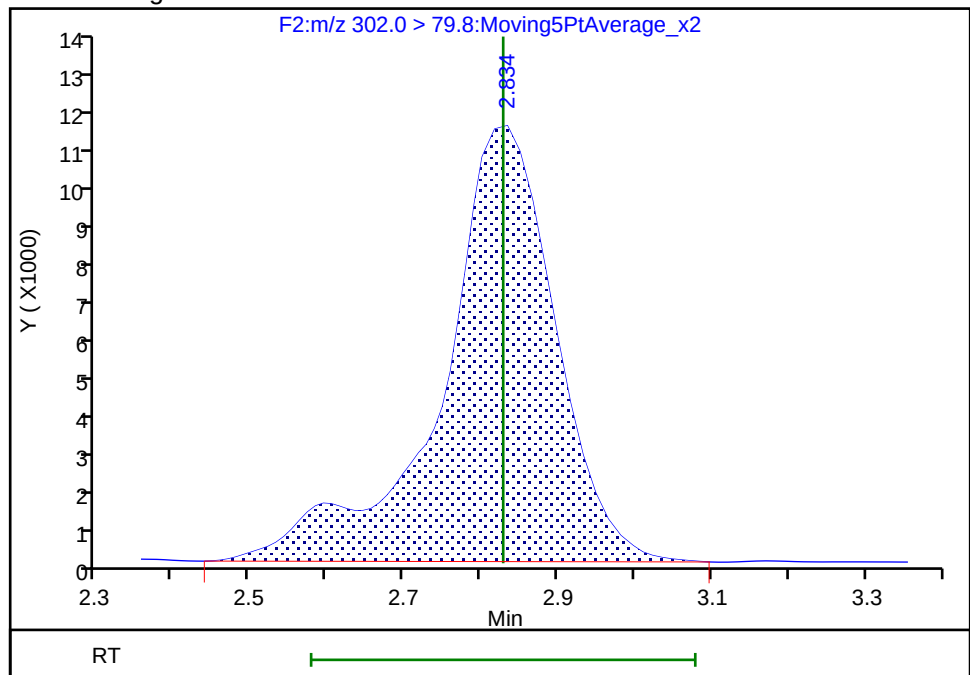
RT: 2.83  
Area: 110716  
Amount: 36.071902  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.83  
Area: 119079  
Amount: 38.796615  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:19:09  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: _____                 | Lab Sample ID: <u>LCS 200-134904/2-A</u>   |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A18.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: _____                      |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>250 (mL)</u>          | Date Analyzed: <u>10/12/2018 20:39</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q | RL   | MDL  |
|------------|----------------------------------------------------------|--------|---|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 51.55  |   | 2.00 | 0.41 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 43.99  |   | 2.00 | 0.75 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 38.63  |   | 2.00 | 0.24 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 40.85  |   | 2.00 | 0.32 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 40.62  |   | 2.00 | 0.32 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 39.99  |   | 2.00 | 0.38 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 42.59  |   | 2.00 | 0.38 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 38.53  |   | 2.00 | 0.25 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 40.54  |   | 2.00 | 0.35 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 39.41  |   | 2.00 | 0.24 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 37.67  |   | 2.00 | 0.45 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 39.57  |   | 2.00 | 0.44 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 38.75  |   | 2.00 | 0.26 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 43.02  |   | 2.00 | 0.82 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 40.66  |   | 2.00 | 0.76 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 38.57  |   | 2.00 | 0.53 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 39.44  |   | 2.00 | 0.56 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 39.55  |   | 20.0 | 0.45 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 41.66  |   | 20.0 | 0.70 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 49.47  |   | 20.0 | 1.00 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 43.68  |   | 20.0 | 0.56 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: _____                 | Lab Sample ID: <u>LCS 200-134904/2-A</u>   |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A18.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: _____                      |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>250 (mL)</u>          | Date Analyzed: <u>10/12/2018 20:39</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 78   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 85   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 92   |   | 25-150 |
| STL00991 | 13C4 PFOS        | 74   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 94   |   | 25-150 |
| STL00992 | 13C4 PFBA        | 75   |   | 25-150 |
| STL00993 | 13C2 PFHxA       | 84   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 97   |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 97   |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 89   |   | 25-150 |
| STL01056 | 13C8 FOSA        | 50   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 83   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 89   |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 79   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 87   |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 97   |   | 25-150 |
| STL02280 | M2-8:2 FTS       | 105  |   | 25-150 |
| STL02337 | 13C3 PFBS        | 83   |   | 25-150 |



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A18.d  
 Lims ID: LCS 200-134904/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 12-Oct-2018 20:39:26 ALS Bottle#: 0 Worklist Smp#: 18  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-018 LCS  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:43:45 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
 Column 1 : Det: F1:MRM  
 Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:27:49

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |           |           |           |          |                 |               |      |      | M     |
| 216.9 > 171.5                         | 2.343 | 2.326     | 0.017     | 1.000     | 328492   | 37.5            |               | 75.0 | 159  | M     |
| 2 Perfluorobutanoic acid              |       |           |           |           |          |                 |               |      |      |       |
| 212.9 > 168.9                         | 2.343 | 2.344     | -0.001    | 1.000     | 162228   | 25.8            |               | 129  | 211  |       |
| D 3 13C5 PFPeA                        |       |           |           |           |          |                 |               |      |      | M     |
| 267.7 > 222.6                         | 2.760 | 2.763     | -0.003    | 1.000     | 87405    | 41.6            |               | 83.1 | 230  | M     |
| 4 Perfluoropentanoic acid             |       |           |           |           |          |                 |               |      |      | M     |
| 262.9 > 218.8                         | 2.760 | 2.763     | -0.003    | 1.000     | 260360   | 22.0            |               | 110  | 671  | M     |
| D 6 13C3 PFBS                         |       |           |           |           |          |                 |               |      |      |       |
| 302.0 > 79.8                          | 2.818 | 2.829     | -0.011    | 1.000     | 118980   | 38.7            |               | 83.2 | 601  |       |
| 5 Perfluorobutanesulfonic acid        |       |           |           |           |          |                 |               |      |      |       |
| 298.9 > 80.0                          | 2.818 | 2.830     | -0.012    | 1.000     | 102937   | 19.8            |               | 98.9 | 298  |       |
| D 7 13C2 PFHxA                        |       |           |           |           |          |                 |               |      |      |       |
| 314.8 > 269.6                         | 3.177 | 3.188     | -0.011    | 1.000     | 268016   | 41.8            |               | 83.7 | 1499 |       |
| 8 Perfluorohexanoic acid              |       |           |           |           |          |                 |               |      |      |       |
| 312.8 > 268.6                         | 3.189 | 3.189     | 0.0       | 1.004     | 110037   | 19.3            |               | 96.6 | 1439 |       |
| D 9 13C4 PFHpA                        |       |           |           |           |          |                 |               |      |      |       |
| 366.9 > 321.8                         | 3.726 | 3.725     | 0.001     | 1.000     | 797665   | 42.5            |               | 85.1 | 2871 |       |
| 10 Perfluoroheptanoic acid            |       |           |           |           |          |                 |               |      |      |       |
| 362.9 > 318.8                         | 3.726 | 3.728     | -0.002    | 1.000     | 327412   | 20.4            |               | 102  | 9220 |       |
| 12 Perfluorohexanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 399.0 > 80.0                          | 3.759 | 3.769     | -0.010    | 1.000     | 104075   | 19.4            |               | 96.9 | 459  |       |
| D 11 18O2 PFHxS                       |       |           |           |           |          |                 |               |      |      |       |
| 402.9 > 83.8                          | 3.759 | 3.770     | -0.011    | 1.000     | 136155   | 36.7            |               | 77.6 | 914  |       |
| D 13 M2-6:2 FTS                       |       |           |           |           |          |                 |               |      |      | M     |
| 428.6 > 408.6                         | 4.330 | 4.353     | -0.023    | 1.000     | 31254    | 46.2            |               | 97.2 | 205  | M     |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |           |           |           |          |                 |               |      |      |       |
| 426.6 > 406.6                         | 4.342 | 4.355     | -0.013    | 1.003     | 16823    | 24.7            |               | 124  | 130  |       |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec  | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|-------|------|-------|
| * 15 13C2 PFOA                        |       |        |        |        |          |              |               |       |      |       |
| 414.9 > 369.8                         | 4.393 | 4.401  | -0.008 |        | 812925   | 50.0         |               |       | 1898 |       |
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |       |      |       |
| 416.9 > 371.8                         | 4.393 | 4.407  | -0.014 | 1.000  | 693415   | 46.1         |               | 92.2  | 2572 |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |       |      |       |
| 412.9 > 368.8                         | 4.393 | 4.409  | -0.016 | 1.000  | 294814   | 20.3         |               | 102   | 983  |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |       |      |       |
| 448.8 > 79.8                          | 4.430 | 4.441  | -0.011 | 0.853  | 43434    | 21.5         |               | 108   | 330  |       |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |       |      |       |
| 467.8 > 422.8                         | 5.168 | 5.171  | -0.003 | 1.000  | 902349   | 46.9         |               | 93.7  | 3200 |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |       |      |       |
| 462.8 > 418.8                         | 5.168 | 5.175  | -0.007 | 1.000  | 391678   | 20.0         |               | 100.0 | 1868 |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |       |      |       |
| 502.8 > 79.8                          | 5.195 | 5.195  | 0.0    | 1.000  | 109805   | 35.3         |               | 73.9  | 467  |       |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |       |      |       |
| 498.8 > 79.8                          | 5.195 | 5.197  | -0.002 | 1.000  | 48233    | 20.3         |               | 102   | 447  | M     |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |       |      |       |
| 528.8 > 508.8                         | 5.926 | 5.929  | -0.003 | 1.000  | 255368   | 50.2         |               | 105   | 1281 |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |       |      |       |
| 526.8 > 506.5                         | 5.926 | 5.932  | -0.006 | 1.000  | 83708    | 21.8         |               | 109   | 330  |       |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |       |      |       |
| 514.9 > 469.5                         | 5.950 | 5.950  | 0.0    | 1.000  | 1018615  | 48.3         |               | 96.5  | 3939 |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |       |      |       |
| 512.9 > 468.5                         | 5.950 | 5.956  | -0.006 | 1.000  | 431792   | 21.3         |               | 106   | 1606 |       |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |       |      |       |
| 572.8 > 418.8                         | 6.295 | 6.311  | -0.016 | 1.000  | 234455   | 39.4         |               | 78.9  | 984  |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |       |      |       |
| 569.8 > 418.8                         | 6.313 | 6.315  | -0.002 | 1.003  | 97897    | 19.8         |               | 98.9  | 272  |       |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |       |      |       |
| 588.9 > 418.8                         | 6.670 | 6.674  | -0.004 | 1.000  | 225635   | 43.7         |               | 87.4  | 720  |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |       |      |       |
| 583.9 > 418.8                         | 6.688 | 6.697  | -0.009 | 1.003  | 92403    | 20.8         |               | 104   | 1025 |       |
| 31 Perfluorodecanesulfonic acid       |       |        |        |        |          |              |               |       |      |       |
| 598.8 > 79.8                          | 6.706 | 6.706  | 0.0    | 1.291  | 50499    | 19.3         |               | 96.4  | 371  |       |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |       |      |       |
| 564.8 > 519.8                         | 6.706 | 6.720  | -0.014 | 1.000  | 1170941  | 48.4         |               | 96.8  | 3176 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |       |      |       |
| 562.8 > 518.6                         | 6.706 | 6.720  | -0.014 | 1.000  | 399689   | 19.3         |               | 96.3  | 860  |       |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |       |      |       |
| 505.8 > 77.8                          | 6.959 | 6.973  | -0.014 | 1.000  | 136710   | 24.8         |               | 49.6  | 748  |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |               |       |      |       |
| 497.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.002  | 46260    | 19.7         |               | 98.6  | 474  |       |
| D 37 13C2 PFDoA                       |       |        |        |        |          |              |               |       |      |       |
| 614.8 > 569.6                         | 7.384 | 7.402  | -0.018 | 1.000  | 1172594  | 44.3         |               | 88.5  | 4687 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |       |      |       |
| 612.8 > 568.6                         | 7.384 | 7.407  | -0.023 | 1.000  | 411177   | 20.3         |               | 101   | 2743 |       |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |       |      |       |
| 662.8 > 618.6                         | 8.012 | 8.020  | -0.008 | 0.936  | 442175   | 19.7         |               | 98.5  | 401  |       |

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.560 | 8.563     | -0.003    | 1.000     | 1149918  | 44.6            |                 | 89.3 | 1005 |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      |       |
| 712.8 > 668.6                  | 8.560 | 8.567     | -0.007    | 1.000     | 423589   | 18.8            |                 | 94.2 | 2224 |       |
| 712.8 > 168.8                  | 8.560 | 8.567     | -0.007    | 1.000     | 85887    |                 | 4.93(0.00-0.00) |      | 284  |       |
| 712.8 > 218.8                  | 8.544 | 8.567     | -0.023    | 0.998     | 45293    |                 | 9.35(0.00-0.00) |      | 106  |       |

### QC Flag Legend

Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A18.d

Injection Date: 12-Oct-2018 20:39:26

Instrument ID: LC410

Lims ID: LCS 200-134904/2-A

Client ID:

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 18

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

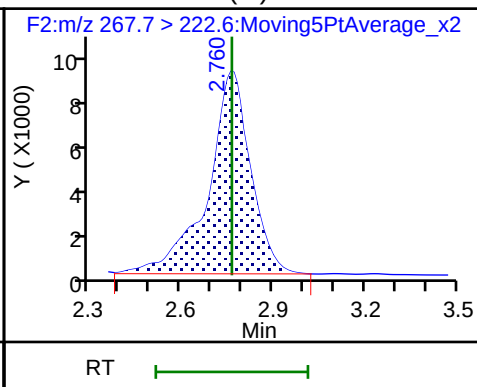
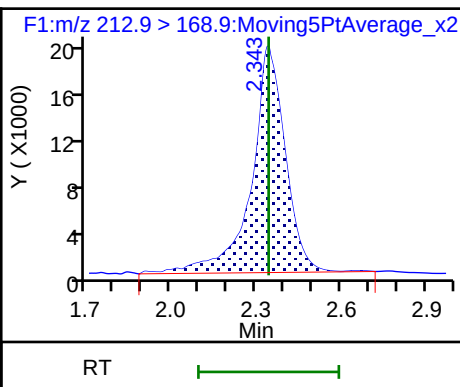
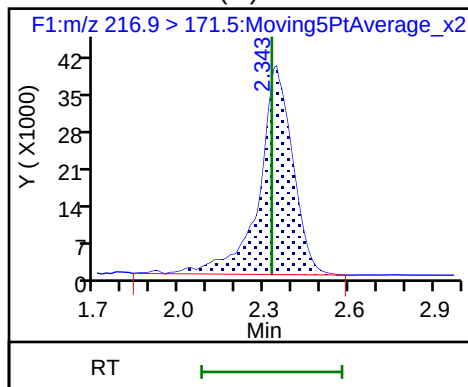
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid

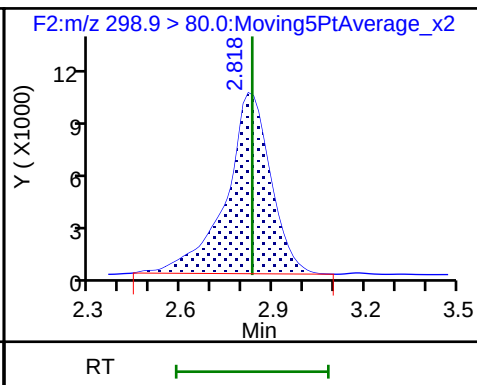
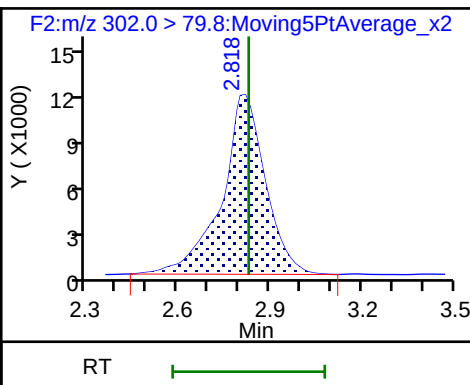
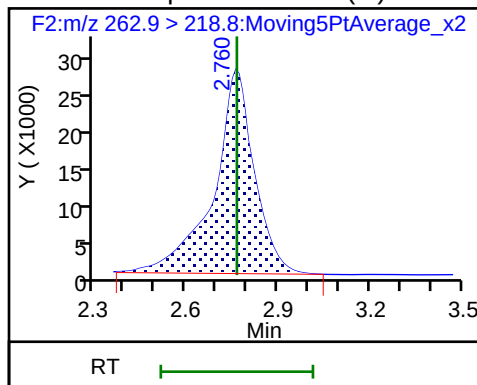
D 3 13C5 PFPeA (M)



4 Perfluoropentanoic acid (M)

D 6 13C3 PFBS

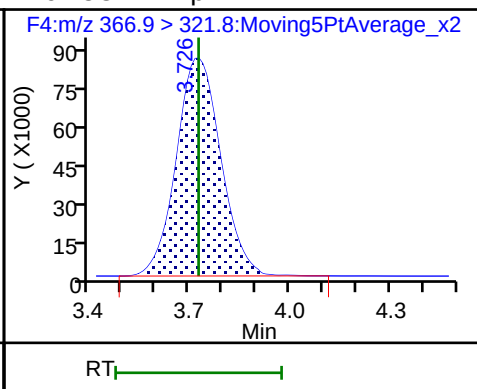
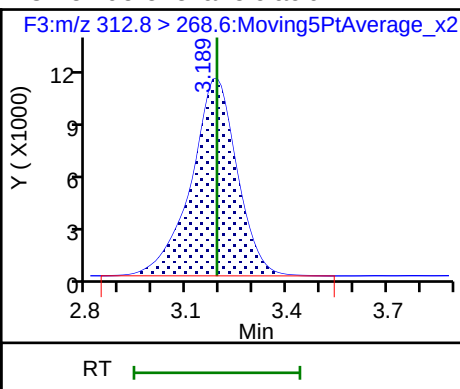
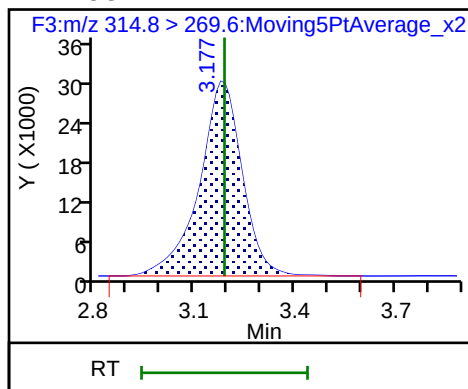
5 Perfluorobutanesulfonic acid



D 7 13C2 PFHxA

8 Perfluorohexanoic acid

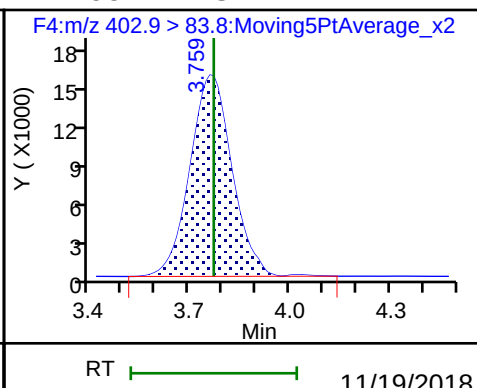
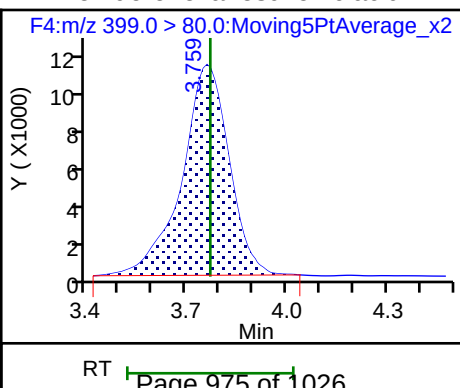
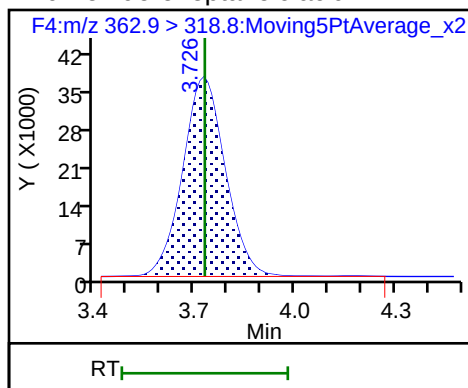
D 9 13C4 PFHpA



10 Perfluoroheptanoic acid

12 Perfluorohexanesulfonic acid

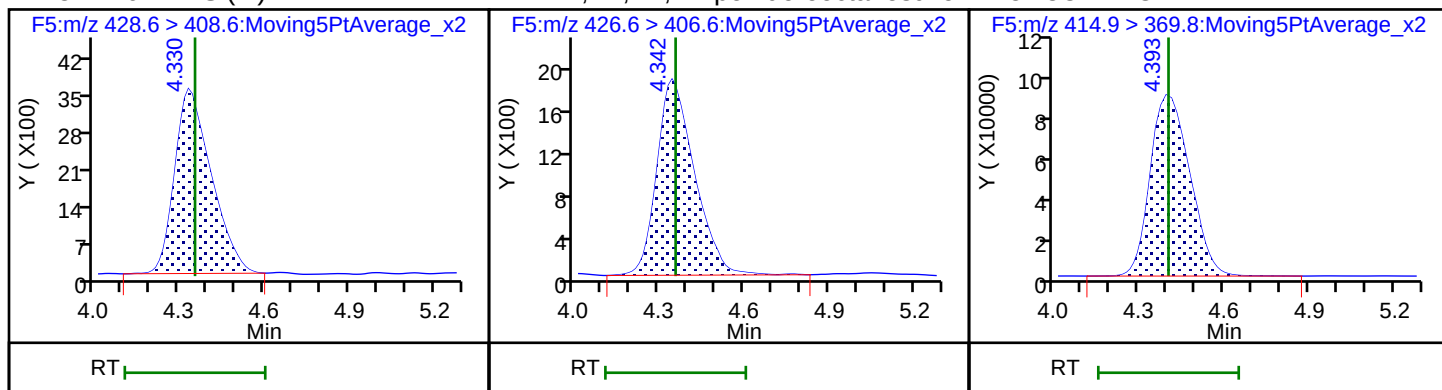
D 11 18O2 PFHxS



D 13 M2-6:2 FTS (M)

14 1H,1H,2H,2H-perfluorooctanesulfonate

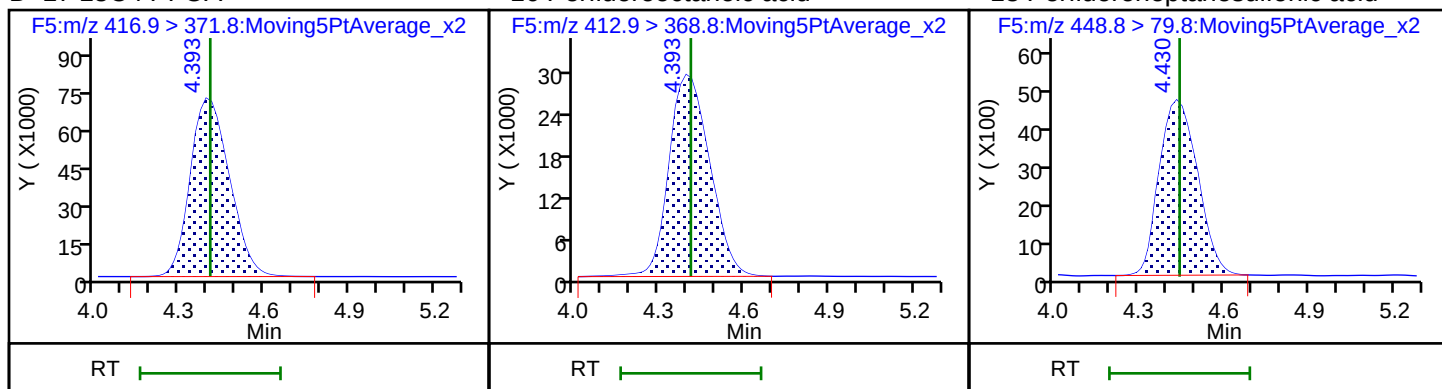
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

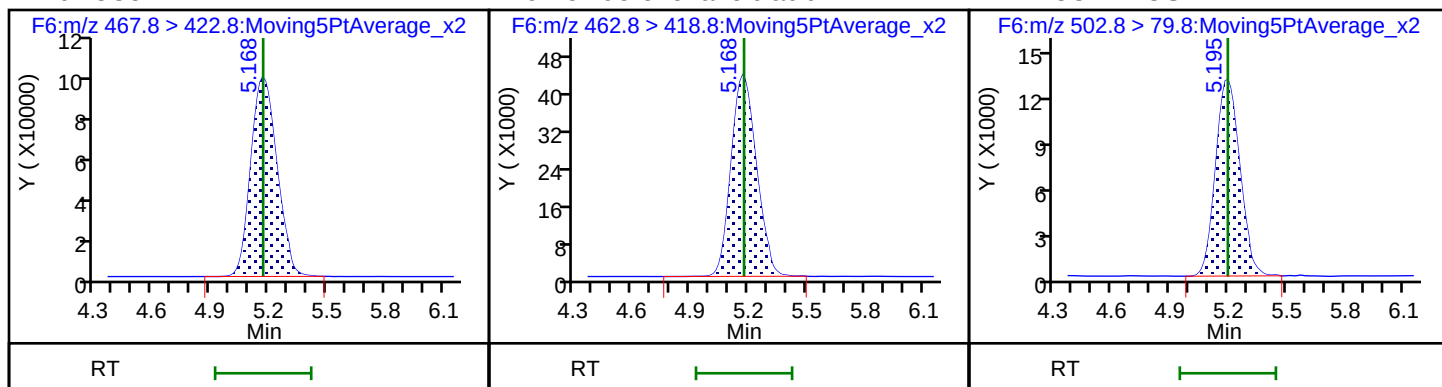
18 Perfluoroheptanesulfonic acid



D 20 13C5 PFNA

19 Perfluorononanoic acid

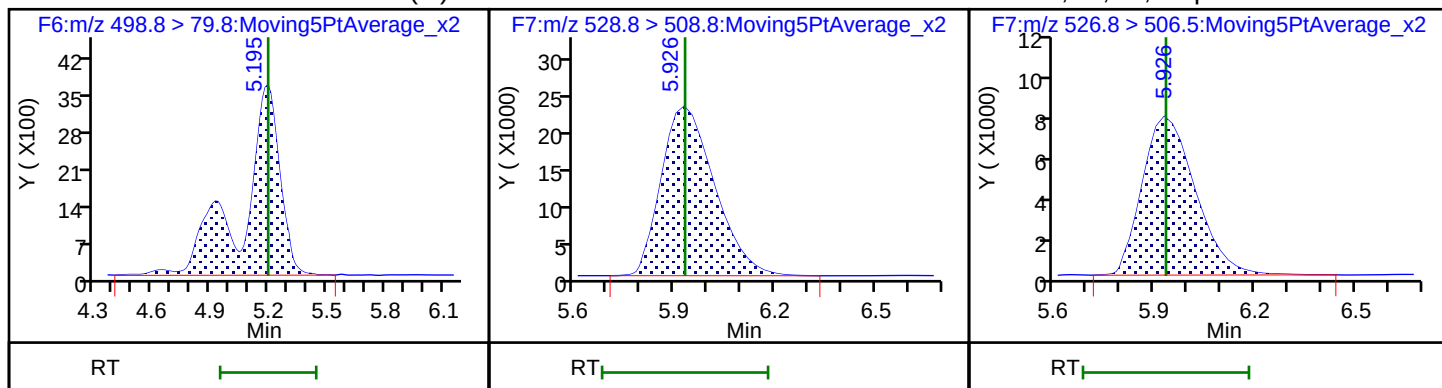
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

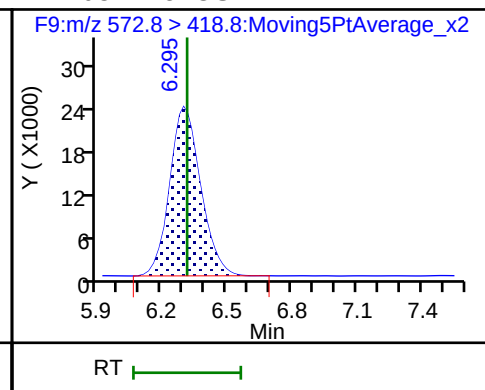
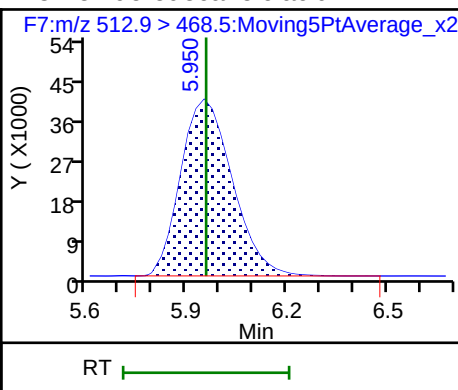
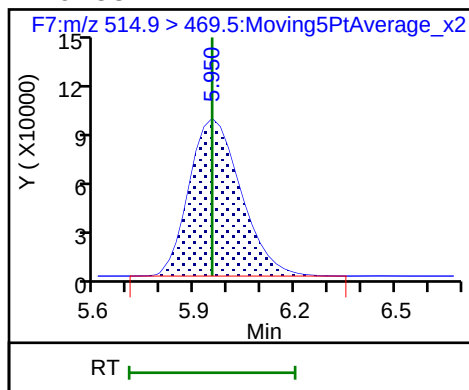
23 1H,1H,2H,2H-perfluorodecanesulfonate



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

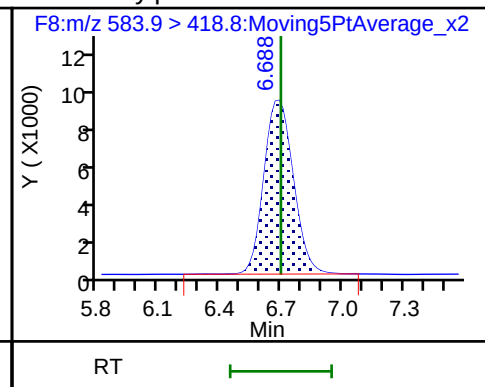
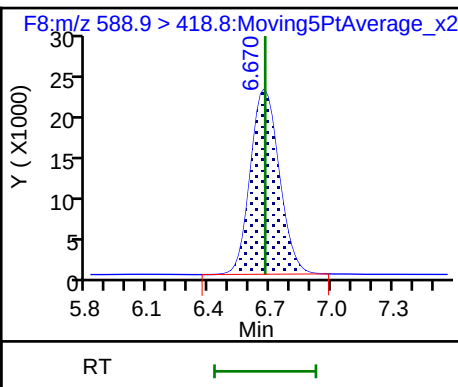
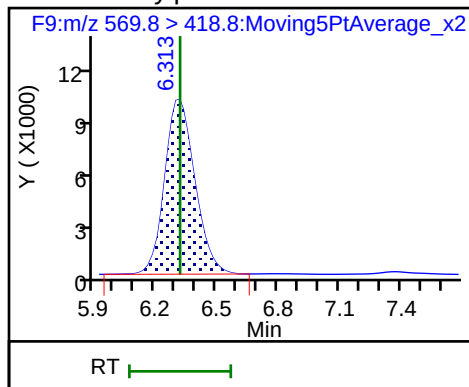
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamid

## D 29 d5-NEtFOSAA

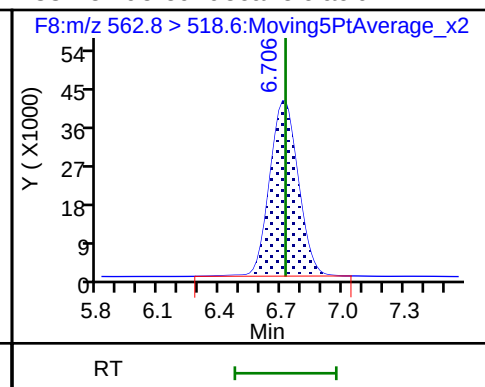
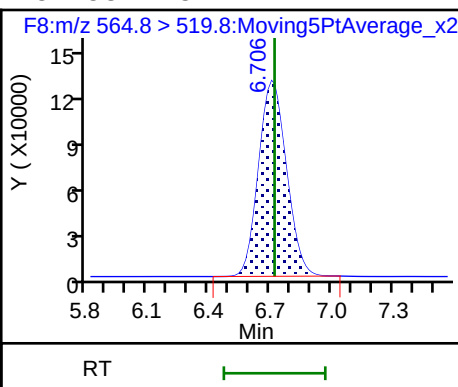
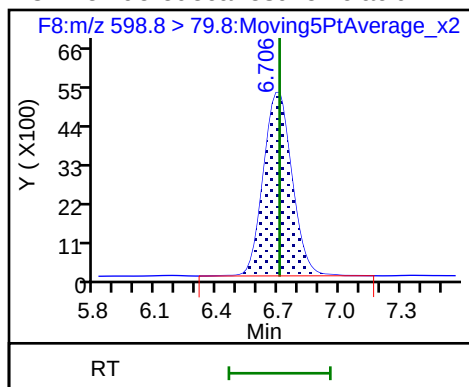
## 30 N-ethylperfluorooctanesulfonamidoa



## 31 Perfluorodecanesulfonic acid

## D 32 13C2 PFUnA

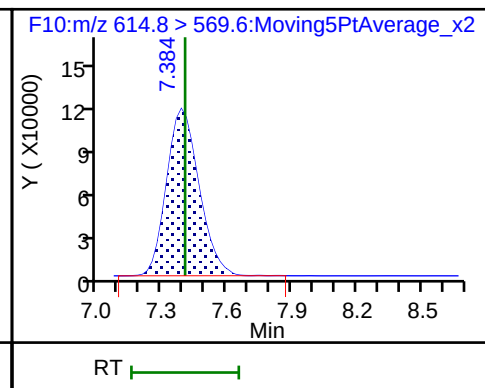
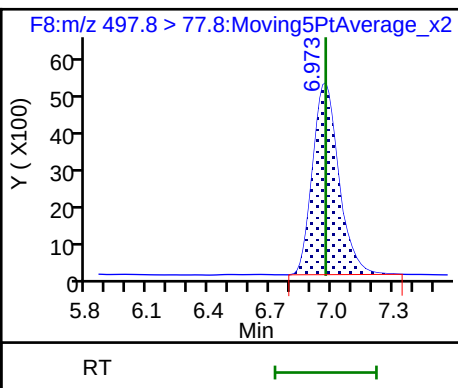
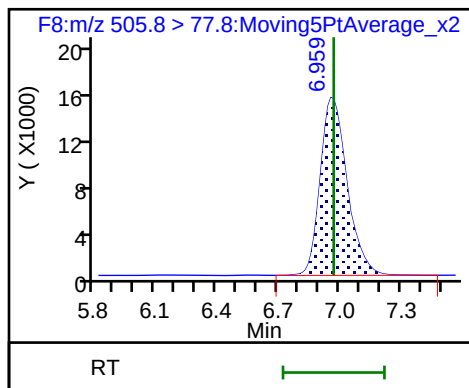
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

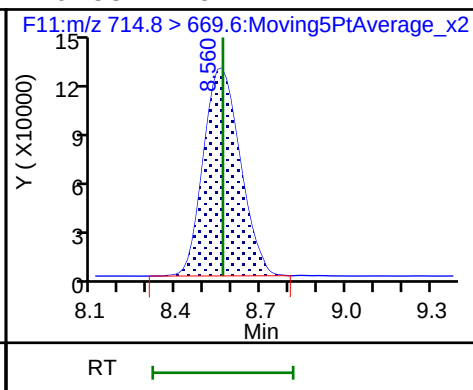
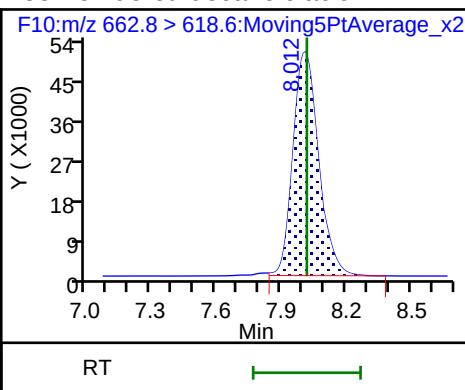
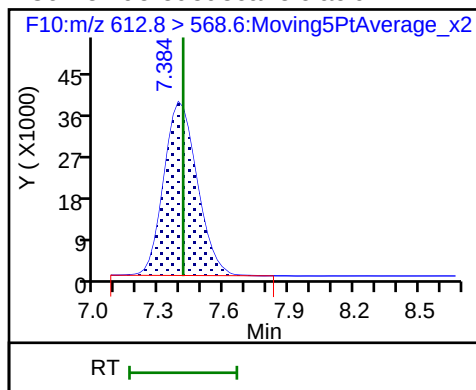
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

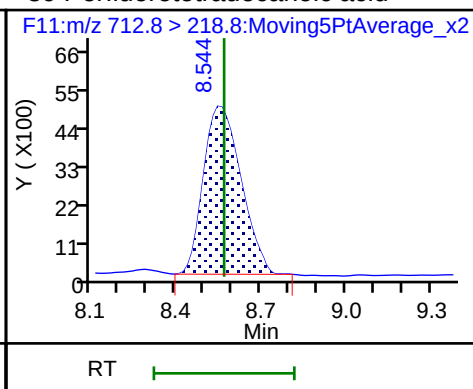
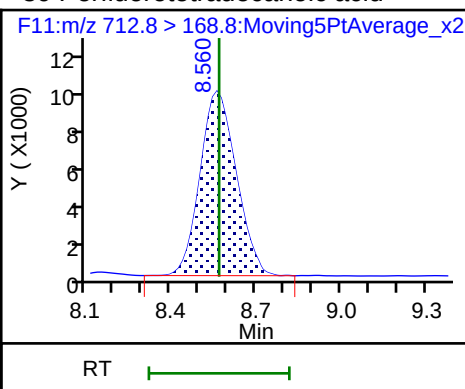
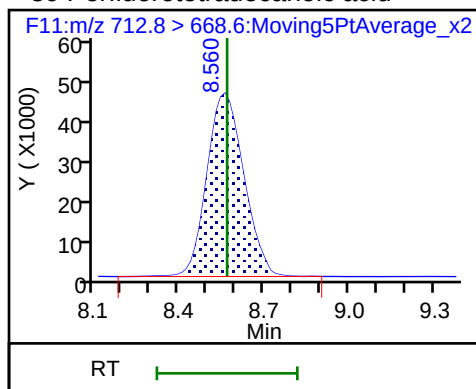
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid



## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A18.d

Injection Date: 12-Oct-2018 20:39:26

Instrument ID: LC410

Lims ID: LCS 200-134904/2-A

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 18

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

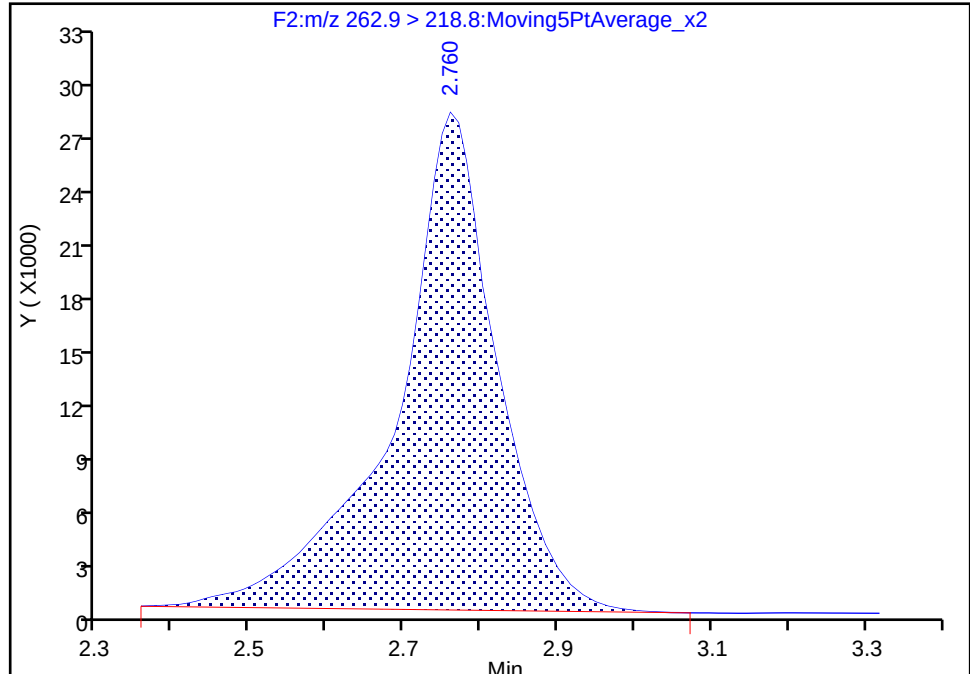
Detector F2:MRM

**4 Perfluoropentanoic acid, CAS: 2706-90-3**

Signal: 1

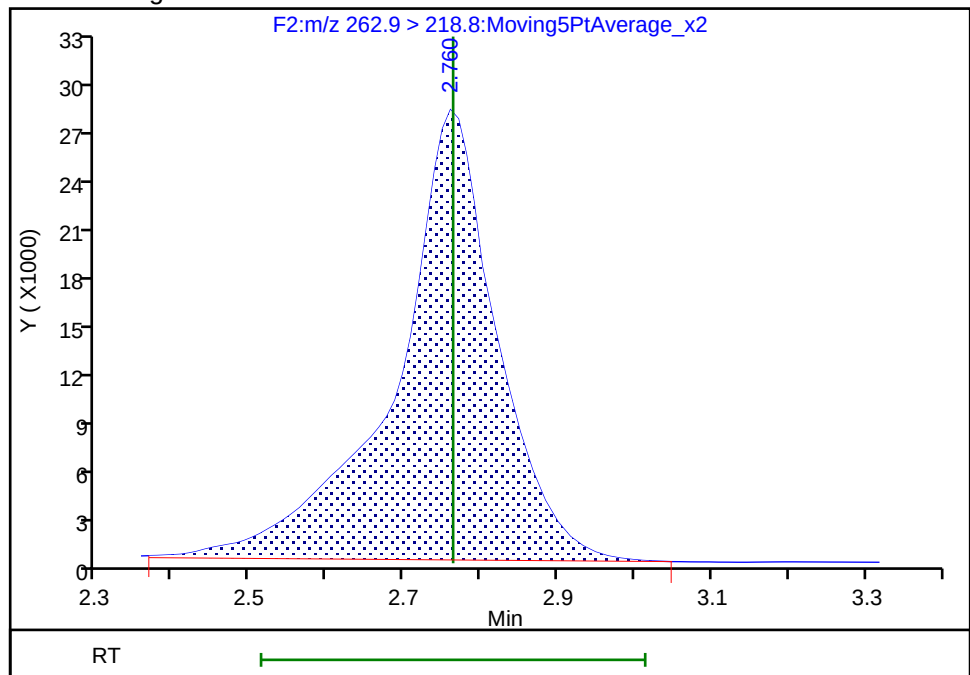
RT: 2.76  
Area: 258521  
Amount: 21.839874  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.76  
Area: 260360  
Amount: 21.995233  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:27:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A18.d

Injection Date: 12-Oct-2018 20:39:26

Instrument ID: LC410

Lims ID: LCS 200-134904/2-A

Client ID:

Operator ID: BC

ALS Bottle#:

0

Worklist Smp#: 18

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

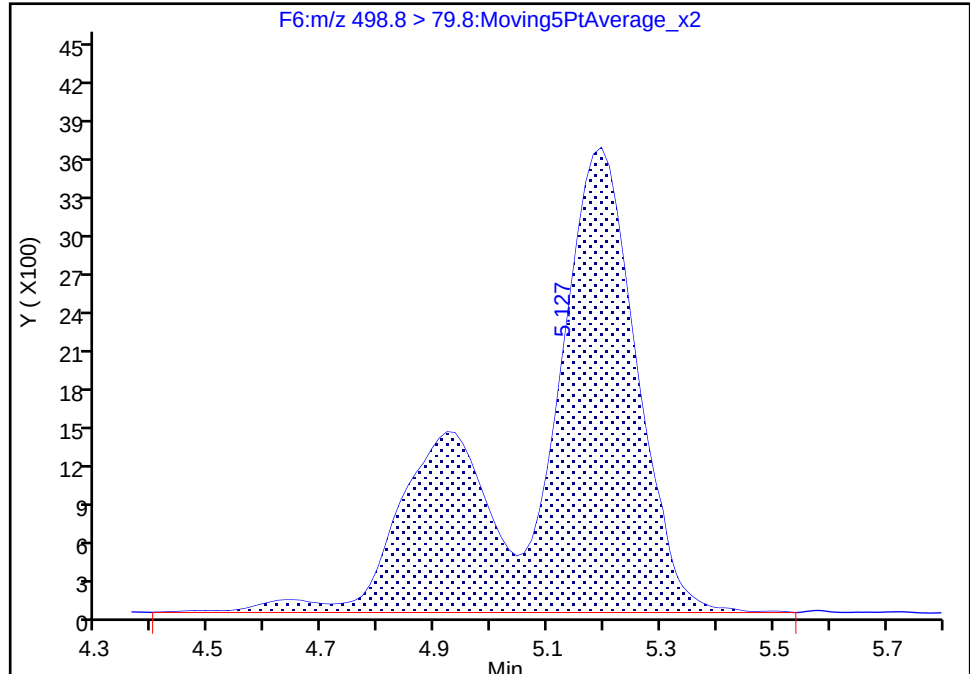
Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

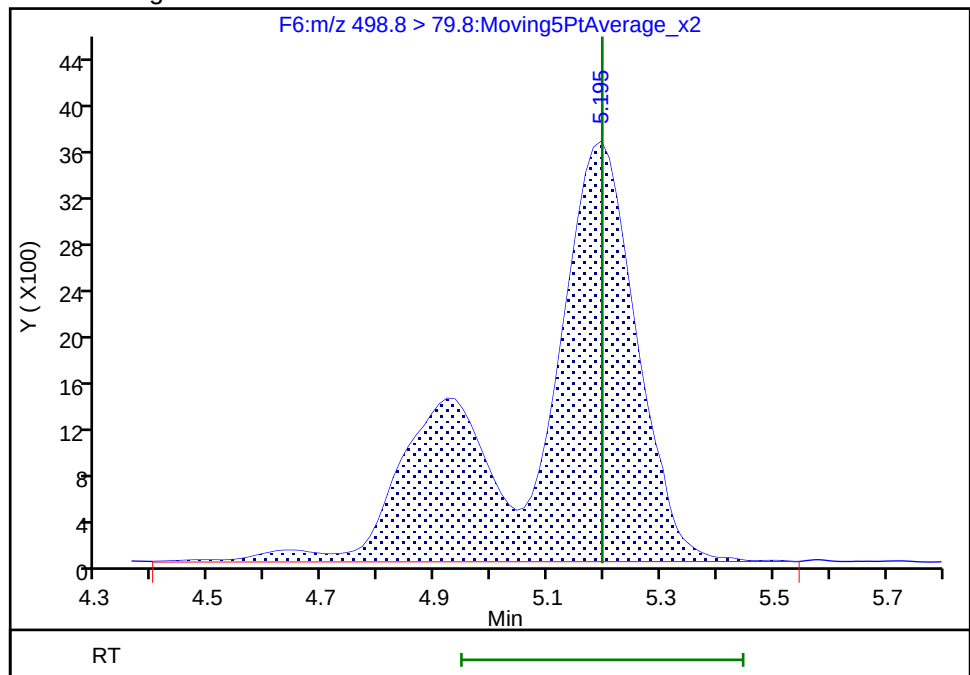
RT: 5.13  
Area: 48107  
Amount: 20.275325  
Amount Units: ng/ml

## Processing Integration Results



RT: 5.20  
Area: 48233  
Amount: 20.328430  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:27:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

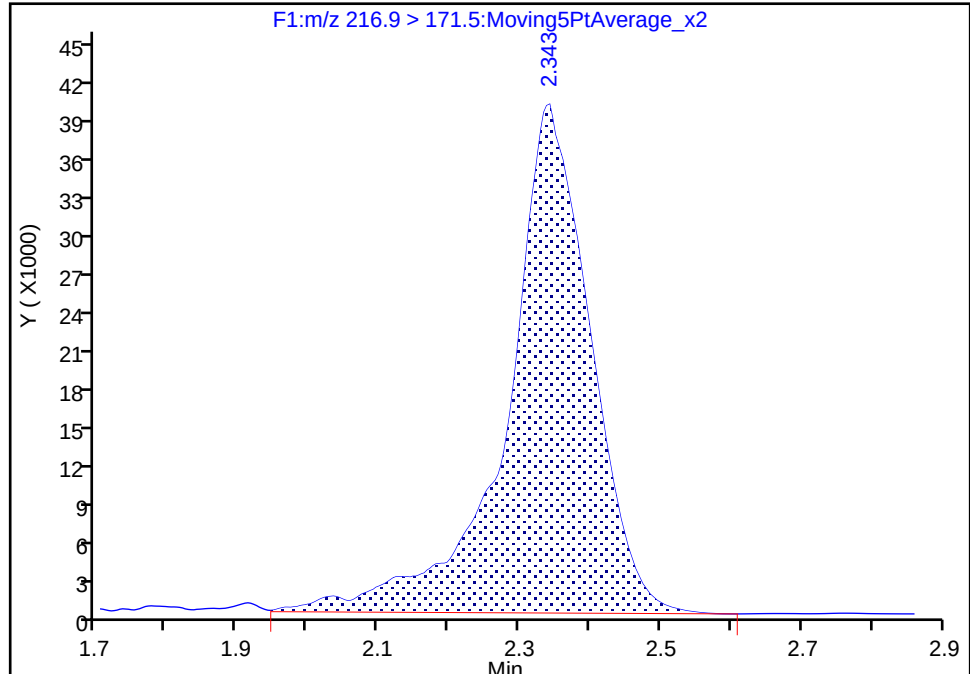
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A18.d  
Injection Date: 12-Oct-2018 20:39:26 Instrument ID: LC410  
Lims ID: LCS 200-134904/2-A  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**D 1 13C4 PFBA, CAS: STL00992**

Signal: 1

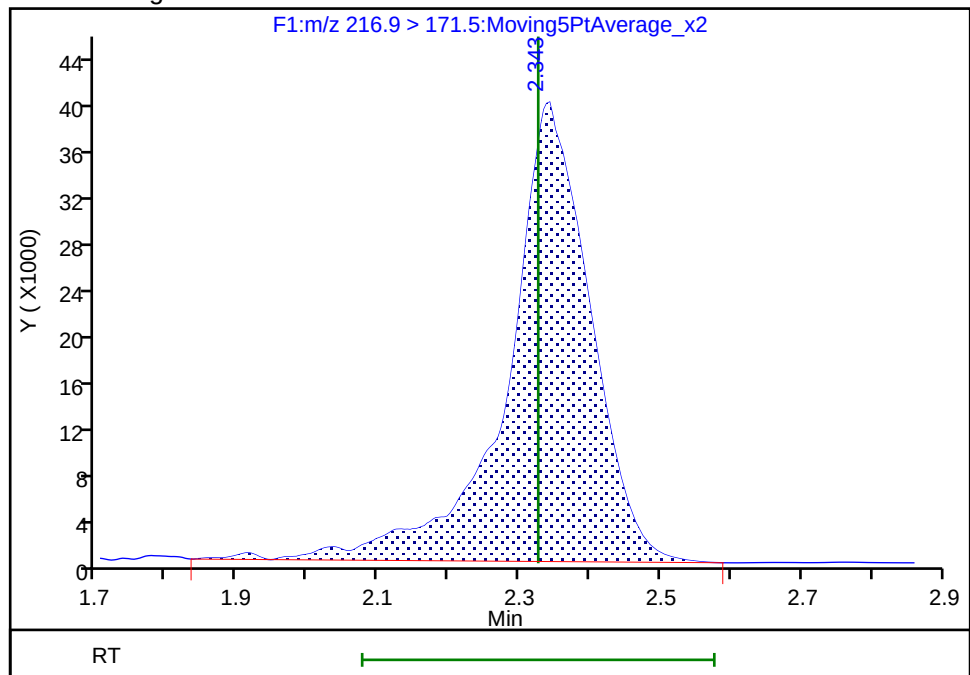
RT: 2.34  
Area: 329058  
Amount: 37.540439  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.34  
Area: 328492  
Amount: 37.475867  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:27:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

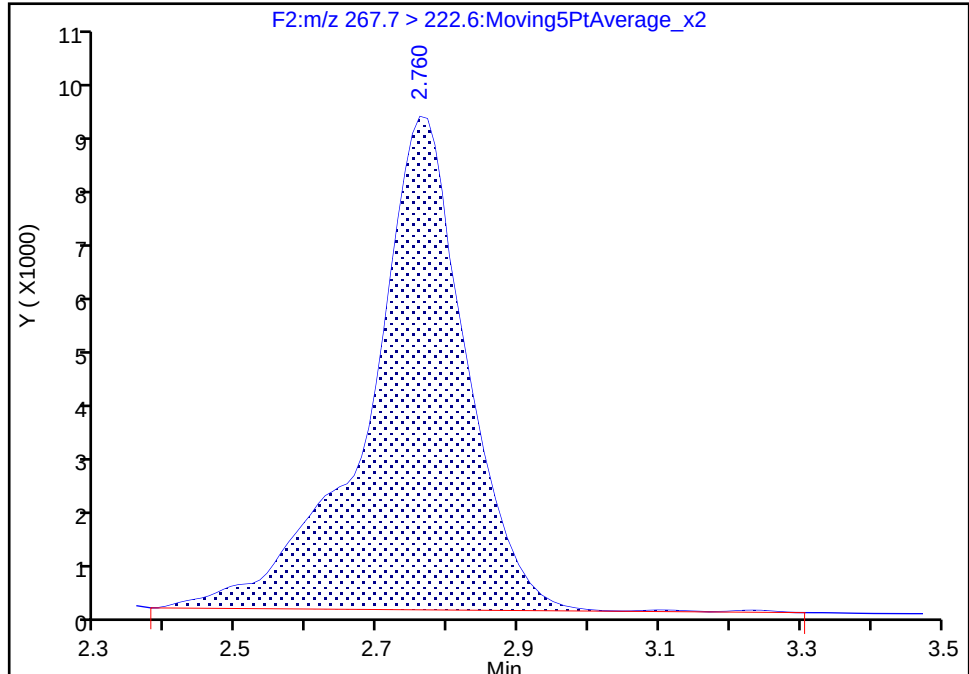
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A18.d  
Injection Date: 12-Oct-2018 20:39:26 Instrument ID: LC410  
Lims ID: LCS 200-134904/2-A  
Client ID:  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F2:MRM

**D 3 13C5 PFPeA, CAS: STL01893**

Signal: 1

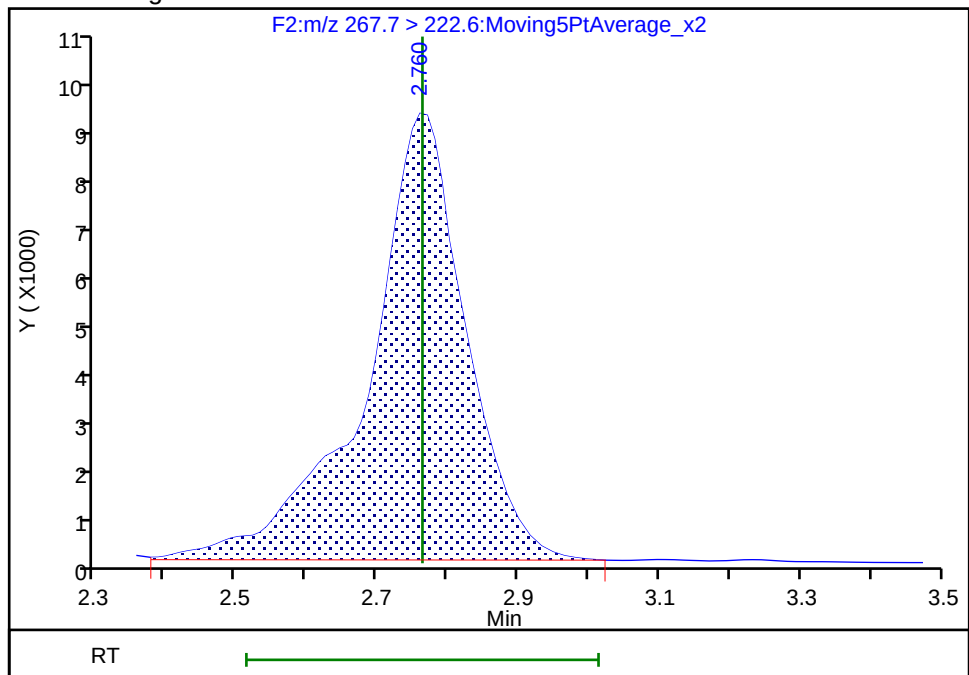
RT: 2.76  
Area: 86863  
Amount: 41.310822  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.76  
Area: 87405  
Amount: 41.568589  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:27:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A18.d

Injection Date: 12-Oct-2018 20:39:26

Instrument ID: LC410

Lims ID: LCS 200-134904/2-A

Client ID:

Operator ID: BC

ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

Column:

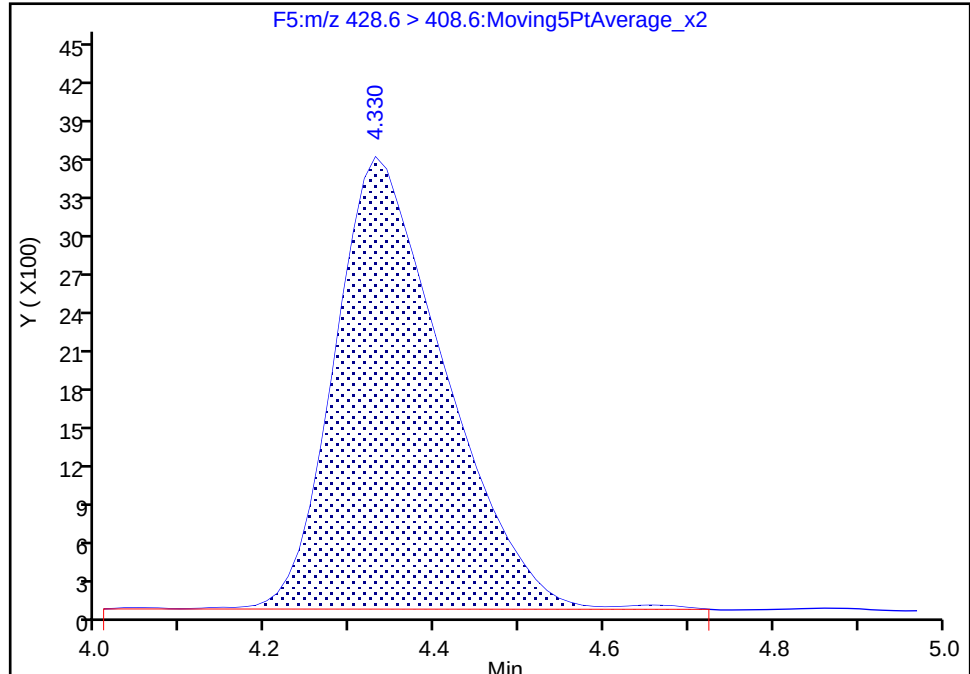
Detector F5:MRM

**D 13 M2-6:2 FTS, CAS: STL02279**

Signal: 1

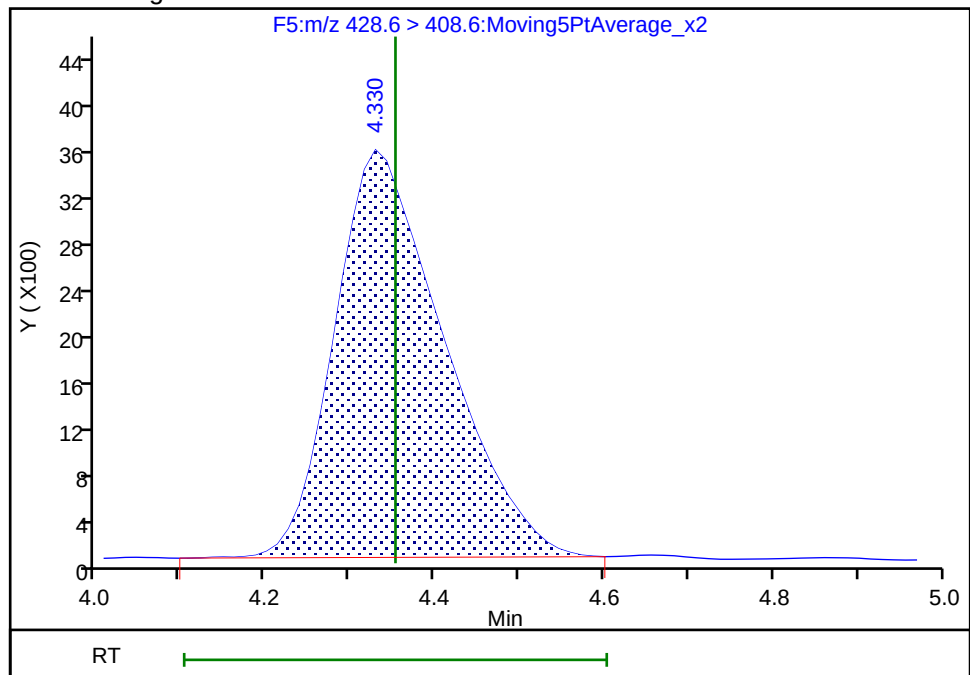
RT: 4.33  
Area: 31717  
Amount: 46.857356  
Amount Units: ng/ml

## Processing Integration Results



RT: 4.33  
Area: 31254  
Amount: 46.173340  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:27:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: _____                 | Lab Sample ID: <u>460-165718-A-3-B MS</u>  |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A30.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/27/2018 13:30</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>305.7 (mL)</u>        | Date Analyzed: <u>10/12/2018 23:50</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q | RL   | MDL  |
|------------|----------------------------------------------------------|--------|---|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 52.58  |   | 1.64 | 0.34 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 38.95  |   | 1.64 | 0.61 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 36.96  |   | 1.64 | 0.20 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 38.31  |   | 1.64 | 0.26 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 51.84  |   | 1.64 | 0.26 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 34.27  |   | 1.64 | 0.31 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 33.46  |   | 1.64 | 0.31 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 29.75  |   | 1.64 | 0.20 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 32.67  |   | 1.64 | 0.29 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 29.41  |   | 1.64 | 0.20 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 30.67  |   | 1.64 | 0.37 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 38.30  |   | 1.64 | 0.36 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 31.95  |   | 1.64 | 0.21 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 36.63  |   | 1.64 | 0.67 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 45.03  |   | 1.64 | 0.62 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 34.98  |   | 1.64 | 0.43 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 33.80  |   | 1.64 | 0.46 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 33.37  |   | 16.4 | 0.37 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 33.86  |   | 16.4 | 0.57 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 32.37  |   | 16.4 | 0.82 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 32.93  |   | 16.4 | 0.46 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: _____                 | Lab Sample ID: <u>460-165718-A-3-B MS</u>  |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A30.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/27/2018 13:30</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>305.7 (mL)</u>        | Date Analyzed: <u>10/12/2018 23:50</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 78   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 74   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 94   |   | 25-150 |
| STL00991 | 13C4 PFOS        | 70   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 109  |   | 25-150 |
| STL00992 | 13C4 PFBA        | 38   |   | 25-150 |
| STL00993 | 13C2 PFHxA       | 45   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 138  |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 112  |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 122  |   | 25-150 |
| STL01056 | 13C8 FOSA        | 57   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 40   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 118  |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 88   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 100  |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 171  | * | 25-150 |
| STL02280 | M2-8:2 FTS       | 325  | * | 25-150 |
| STL02337 | 13C3 PFBS        | 54   |   | 25-150 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A30.d  
 Lims ID: 460-165718-A-3-B MS  
 Client ID: MW-54  
 Sample Type: MS  
 Inject. Date: 12-Oct-2018 23:50:03 ALS Bottle#: 0 Worklist Smp#: 30  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-030 3MS  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:47:59 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d  
 Column 1 : Det: F1:MRM  
 Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:57:58

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |           |           |           |          |                 |               |      |      | M     |
| 216.9 > 171.5                         | 2.306 | 2.326     | -0.020    | 1.000     | 127101   | 19.2            |               | 38.3 | 206  | M     |
| 2 Perfluorobutanoic acid              |       |           |           |           |          |                 |               |      |      | M     |
| 212.9 > 168.9                         | 2.310 | 2.344     | -0.034    | 1.002     | 78288    | 32.1            |               | 161  | 181  | M     |
| D 3 13C5 PFPeA                        |       |           |           |           |          |                 |               |      |      |       |
| 267.7 > 222.6                         | 2.708 | 2.763     | -0.055    | 1.000     | 31831    | 20.0            |               | 40.0 | 49.9 |       |
| 4 Perfluoropentanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 262.9 > 218.8                         | 2.719 | 2.763     | -0.044    | 1.004     | 102650   | 23.8            |               | 119  | 85.5 |       |
| D 6 13C3 PFBS                         |       |           |           |           |          |                 |               |      |      |       |
| 302.0 > 79.8                          | 2.781 | 2.829     | -0.048    | 1.000     | 58859    | 25.3            |               | 54.4 | 104  |       |
| 5 Perfluorobutanesulfonic acid        |       |           |           |           |          |                 |               |      |      |       |
| 298.9 > 80.0                          | 2.781 | 2.830     | -0.049    | 1.000     | 60269    | 23.4            |               | 117  | 39.9 |       |
| D 7 13C2 PFHxA                        |       |           |           |           |          |                 |               |      |      |       |
| 314.8 > 269.6                         | 3.127 | 3.188     | -0.061    | 1.000     | 110209   | 22.7            |               | 45.5 | 614  |       |
| 8 Perfluorohexanoic acid              |       |           |           |           |          |                 |               |      |      |       |
| 312.8 > 268.6                         | 3.127 | 3.189     | -0.062    | 1.000     | 52936    | 22.6            |               | 113  | 81.6 |       |
| D 9 13C4 PFHpA                        |       |           |           |           |          |                 |               |      |      |       |
| 366.9 > 321.8                         | 3.670 | 3.725     | -0.055    | 1.000     | 523796   | 36.9            |               | 73.8 | 1804 |       |
| 10 Perfluoroheptanoic acid            |       |           |           |           |          |                 |               |      |      |       |
| 362.9 > 318.8                         | 3.670 | 3.728     | -0.058    | 1.000     | 246558   | 23.4            |               | 117  | 477  |       |
| 12 Perfluorohexanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 399.0 > 80.0                          | 3.703 | 3.769     | -0.066    | 0.997     | 79371    | 19.5            |               | 97.7 | 131  |       |
| D 11 18O2 PFHxS                       |       |           |           |           |          |                 |               |      |      |       |
| 402.9 > 83.8                          | 3.715 | 3.770     | -0.055    | 1.000     | 102999   | 36.7            |               | 77.6 | 575  |       |
| D 13 M2-6:2 FTS                       |       |           |           |           |          |                 |               |      |      |       |
| 428.6 > 408.6                         | 4.304 | 4.353     | -0.049    | 1.000     | 41630    | 81.3            |               | 171  | 203  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |           |           |           |          |                 |               |      |      |       |
| 426.6 > 406.6                         | 4.304 | 4.355     | -0.051    | 1.000     | 17928    | 19.8            |               | 98.9 | 287  |       |

| Signal                                | RT    | EXP RT | DLT RT | REL RT | Response | Amount ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|--------|--------|--------|----------|--------------|---------------|------|------|-------|
| * 15 13C2 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 414.9 > 369.8                         | 4.342 | 4.401  | -0.059 |        | 615288   | 50.0         |               |      | 2347 |       |
| D 17 13C4 PFOA                        |       |        |        |        |          |              |               |      |      |       |
| 416.9 > 371.8                         | 4.342 | 4.407  | -0.065 | 1.000  | 533620   | 46.8         |               | 93.7 | 1117 |       |
| 16 Perfluorooctanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 412.9 > 368.8                         | 4.342 | 4.409  | -0.067 | 1.000  | 354104   | 31.7         |               | 158  | 635  |       |
| 18 Perfluoroheptanesulfonic acid      |       |        |        |        |          |              |               |      |      |       |
| 448.8 > 79.8                          | 4.374 | 4.441  | -0.067 | 0.851  | 32628    | 22.4         |               | 112  | 155  |       |
| D 20 13C5 PFNA                        |       |        |        |        |          |              |               |      |      |       |
| 467.8 > 422.8                         | 5.127 | 5.171  | -0.044 | 1.000  | 795829   | 54.6         |               | 109  | 1089 |       |
| 19 Perfluorononanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 462.8 > 418.8                         | 5.127 | 5.175  | -0.048 | 1.000  | 361578   | 21.0         |               | 105  | 469  |       |
| D 22 13C4 PFOS                        |       |        |        |        |          |              |               |      |      |       |
| 502.8 > 79.8                          | 5.140 | 5.195  | -0.055 | 1.000  | 79232    | 33.7         |               | 70.4 | 326  |       |
| 21 Perfluorooctanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 498.8 > 79.8                          | 5.140 | 5.197  | -0.057 | 1.000  | 47132    | 27.5         |               | 138  | 275  | M     |
| D 24 M2-8:2 FTS                       |       |        |        |        |          |              |               |      |      |       |
| 528.8 > 508.8                         | 5.862 | 5.929  | -0.067 | 1.000  | 600164   | 155.9        |               | 325  | 2809 |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |        |        |        |          |              |               |      |      |       |
| 526.8 > 506.5                         | 5.882 | 5.932  | -0.050 | 1.003  | 181398   | 20.1         |               | 101  | 1371 |       |
| D 26 13C2 PFDA                        |       |        |        |        |          |              |               |      |      |       |
| 514.9 > 469.5                         | 5.902 | 5.950  | -0.048 | 1.000  | 1099725  | 68.9         |               | 138  | 2537 |       |
| 25 Perfluorodecanoic acid             |       |        |        |        |          |              |               |      |      |       |
| 512.9 > 468.5                         | 5.902 | 5.956  | -0.054 | 1.000  | 447900   | 20.5         |               | 102  | 1041 |       |
| D 27 d3-NMeFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 572.8 > 418.8                         | 6.259 | 6.311  | -0.052 | 1.000  | 198737   | 44.2         |               | 88.4 | 1035 |       |
| 28 N-methylperfluorooctanesulfonamido |       |        |        |        |          |              |               |      |      |       |
| 569.8 > 418.8                         | 6.259 | 6.315  | -0.056 | 1.000  | 85616    | 20.4         |               | 102  | 219  |       |
| D 29 d5-NEtFOSAA                      |       |        |        |        |          |              |               |      |      |       |
| 588.9 > 418.8                         | 6.634 | 6.674  | -0.040 | 1.000  | 194642   | 49.8         |               | 99.6 | 977  |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |        |        |        |          |              |               |      |      |       |
| 583.9 > 418.8                         | 6.634 | 6.697  | -0.063 | 1.000  | 79204    | 20.7         |               | 103  | 902  |       |
| 31 Perfluorodecanesulfonic acid       |       |        |        |        |          |              |               |      |      |       |
| 598.8 > 79.8                          | 6.652 | 6.706  | -0.054 | 1.294  | 40407    | 21.4         |               | 107  | 545  |       |
| D 32 13C2 PFUnA                       |       |        |        |        |          |              |               |      |      |       |
| 564.8 > 519.8                         | 6.670 | 6.720  | -0.050 | 1.000  | 1026114  | 56.1         |               | 112  | 5940 |       |
| 33 Perfluoroundecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 562.8 > 518.6                         | 6.670 | 6.720  | -0.050 | 1.000  | 330651   | 18.2         |               | 90.9 | 641  |       |
| D 35 13C8 FOSA                        |       |        |        |        |          |              |               |      |      |       |
| 505.8 > 77.8                          | 6.959 | 6.973  | -0.014 | 1.000  | 119665   | 28.7         |               | 57.3 | 683  |       |
| 34 Perfluorooctanesulfonamide         |       |        |        |        |          |              |               |      |      |       |
| 497.8 > 77.8                          | 6.973 | 6.973  | 0.0    | 1.002  | 42430    | 20.7         |               | 103  | 421  |       |
| D 37 13C2 PFDoA                       |       |        |        |        |          |              |               |      |      |       |
| 614.8 > 569.6                         | 7.362 | 7.402  | -0.040 | 1.000  | 1228425  | 61.2         |               | 122  | 2430 |       |
| 36 Perfluorododecanoic acid           |       |        |        |        |          |              |               |      |      |       |
| 612.8 > 568.6                         | 7.362 | 7.407  | -0.045 | 1.000  | 424402   | 20.0         |               | 99.9 | 1553 |       |
| 38 Perfluorotridecanoic acid          |       |        |        |        |          |              |               |      |      |       |
| 662.8 > 618.6                         | 7.979 | 8.020  | -0.041 | 0.935  | 384986   | 18.0         |               | 89.9 | 1921 | M     |



| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.529 | 8.563     | -0.034    | 1.000     | 1148437  | 58.9            |                 | 118  | 726  |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      | M     |
| 712.8 > 668.6                  | 8.514 | 8.567     | -0.053    | 0.998     | 421129   | 18.7            |                 | 93.7 | 2604 |       |
| 712.8 > 168.8                  | 8.529 | 8.567     | -0.038    | 1.000     | 83507    |                 | 5.04(0.00-0.00) |      | 331  |       |
| 712.8 > 218.8                  | 8.529 | 8.567     | -0.038    | 1.000     | 44184    |                 | 9.53(0.00-0.00) |      | 116  | M     |

### QC Flag Legend

Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\LC410\\20181012-32613.b\\PF101218A30.d

Injection Date: 12-Oct-2018 23:50:03

Instrument ID: LC410

Lims ID: 460-165718-A-3-B MS

Client ID: MW-54

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 30

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

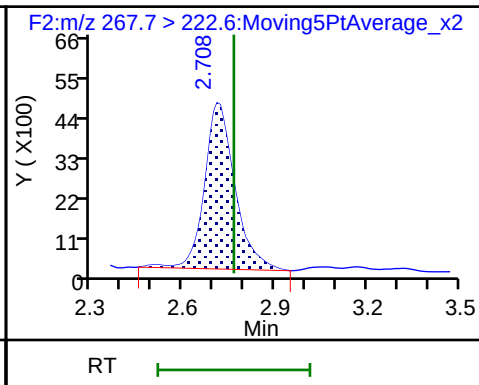
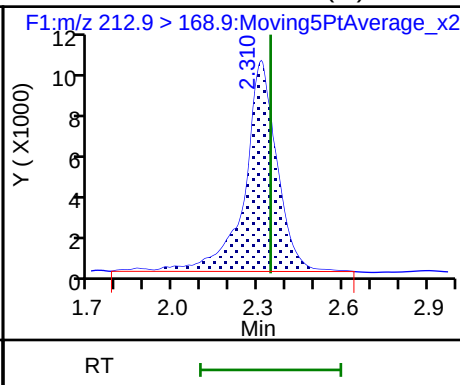
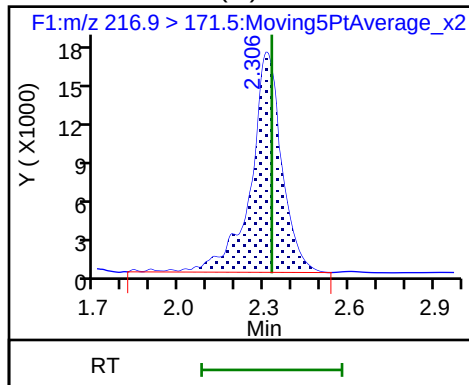
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

## D 1 13C4 PFBA (M)

## 2 Perfluorobutanoic acid (M)

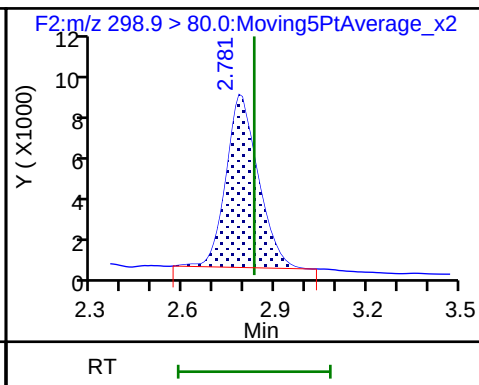
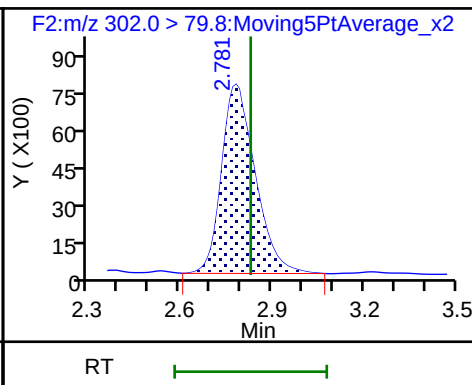
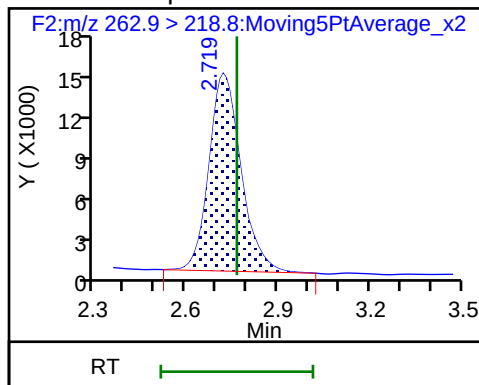
## D 3 13C5 PFPeA



## 4 Perfluoropentanoic acid

## D 6 13C3 PFBS

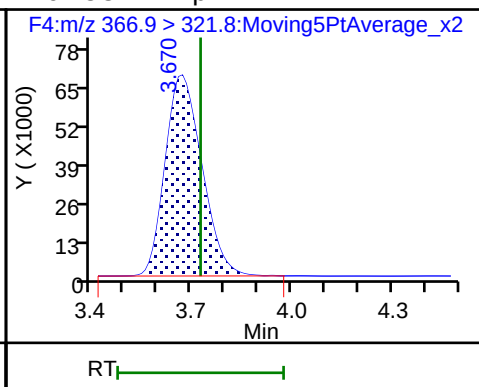
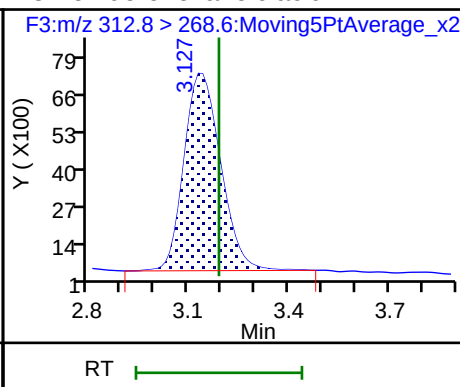
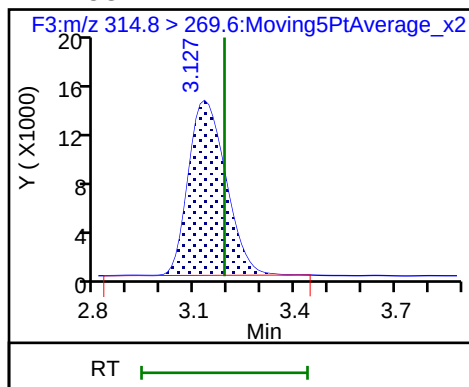
## 5 Perfluorobutanesulfonic acid



## D 7 13C2 PFHxA

## 8 Perfluorohexanoic acid

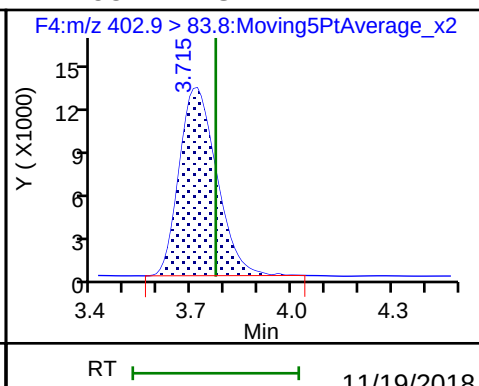
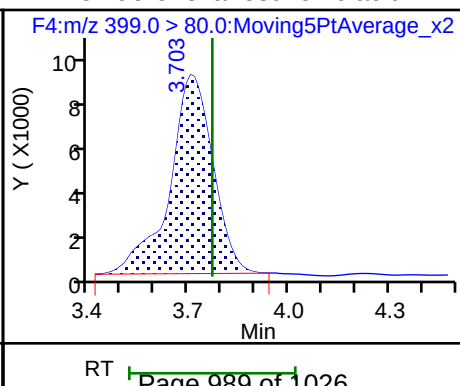
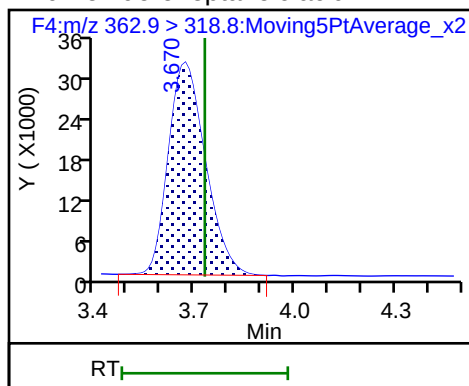
## D 9 13C4 PFHpA



## 10 Perfluoroheptanoic acid

## 12 Perfluorohexanesulfonic acid

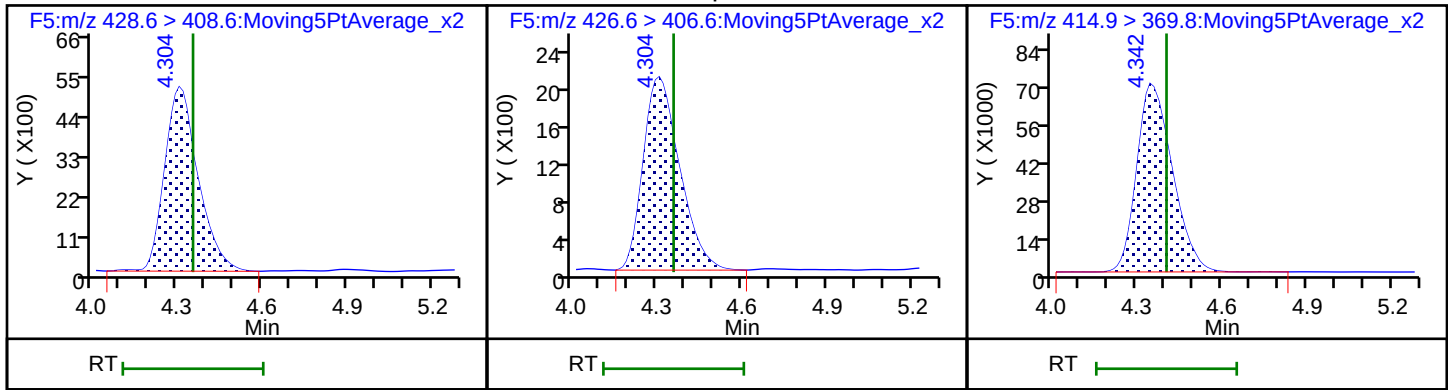
## D 11 18O2 PFHxS



D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

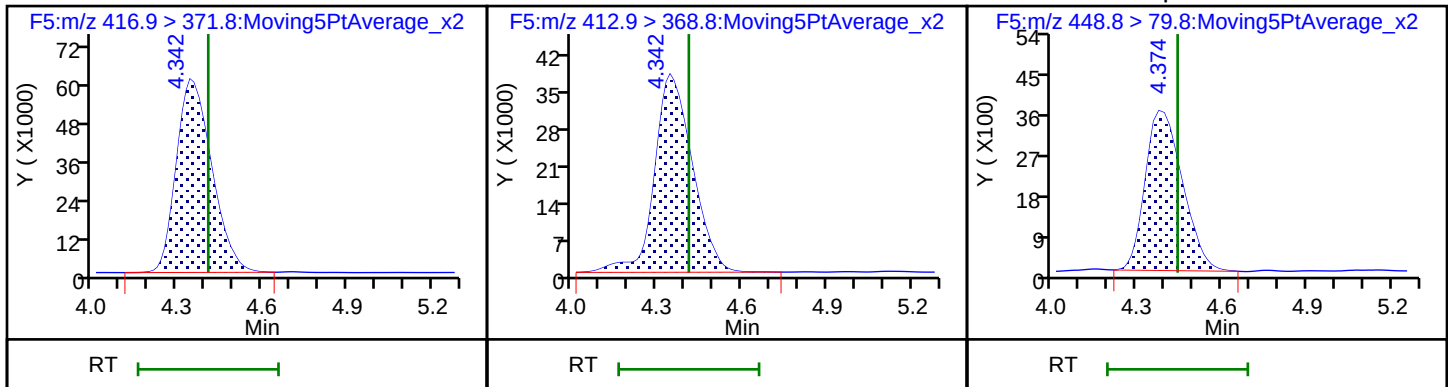
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

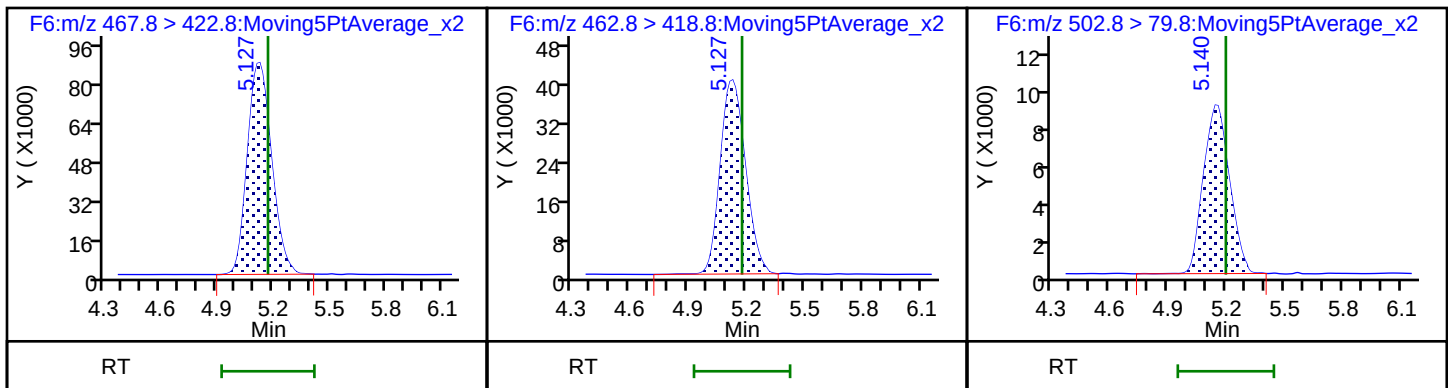
18 Perfluoroheptanesulfonic acid



D 20 13C5 PFNA

19 Perfluorononanoic acid

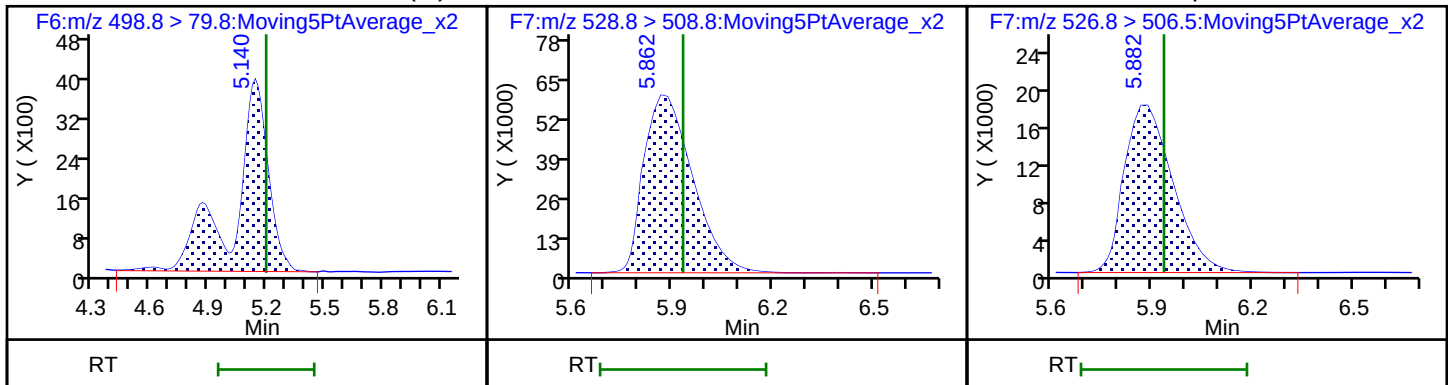
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

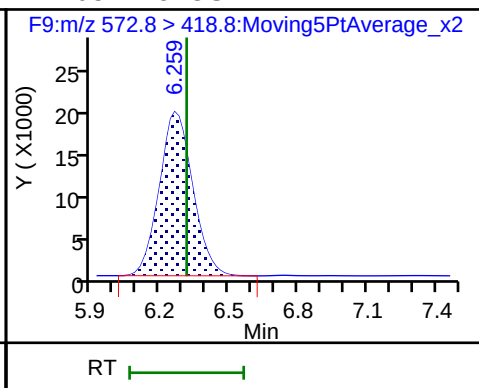
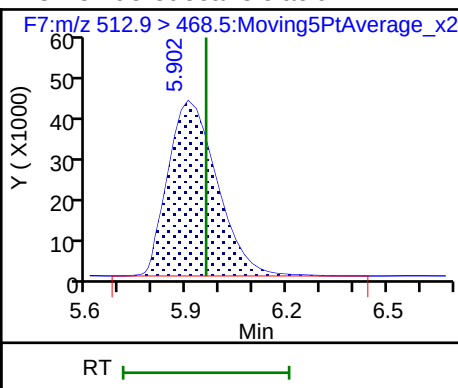
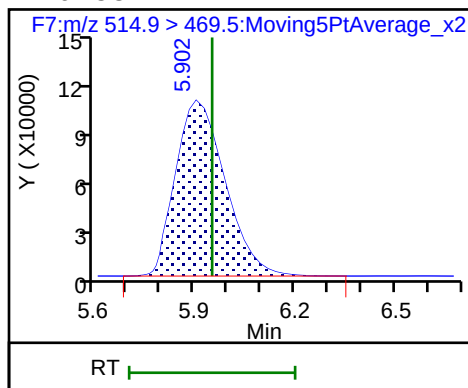
23 1H,1H,2H,2H-perfluorodecanesulfonate



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

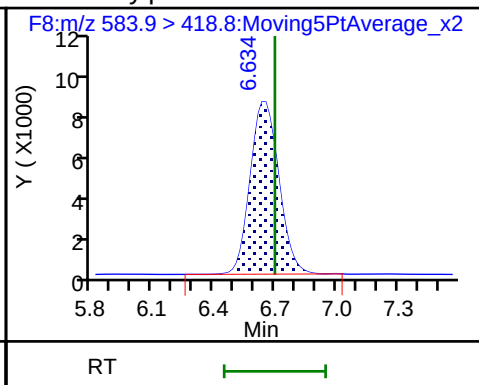
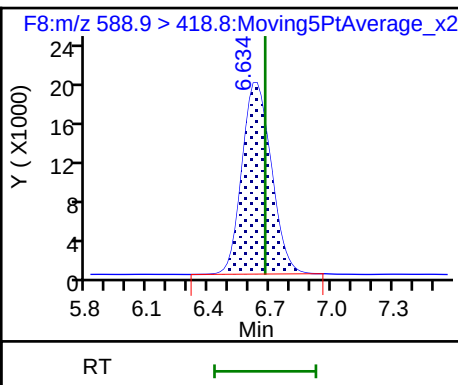
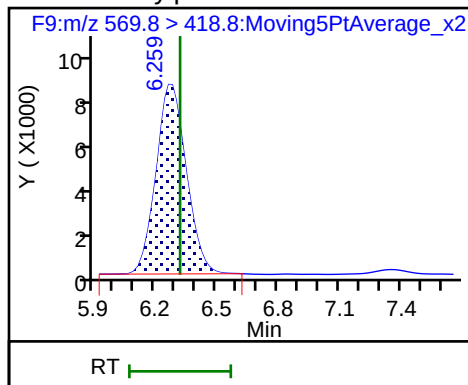
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamid

## D 29 d5-NEtFOSAA

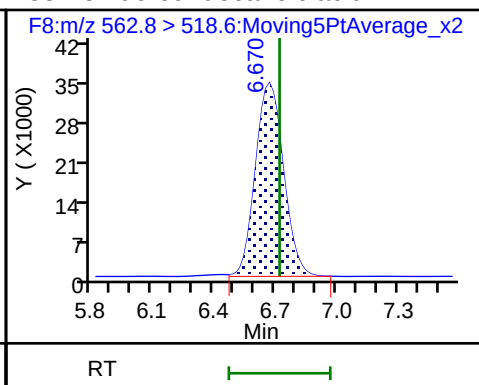
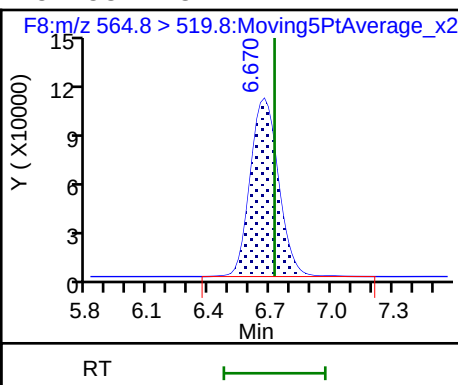
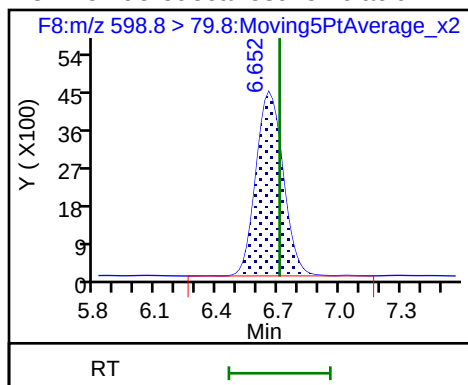
## 30 N-ethylperfluorooctanesulfonamidoa



## 31 Perfluorodecanesulfonic acid

## D 32 13C2 PFUnA

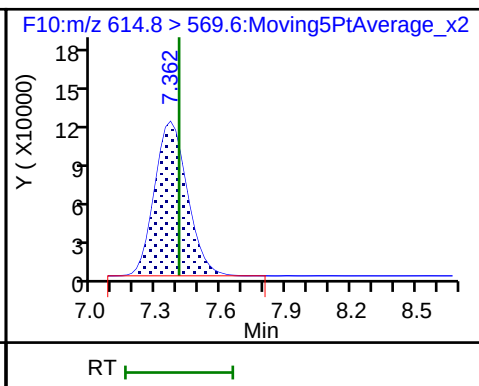
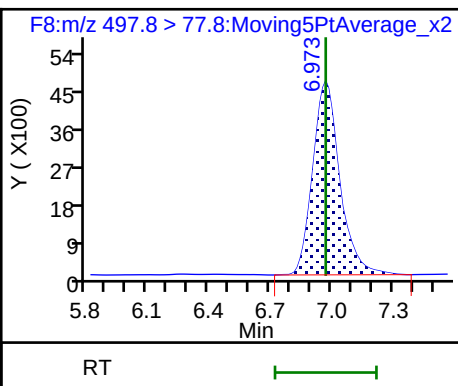
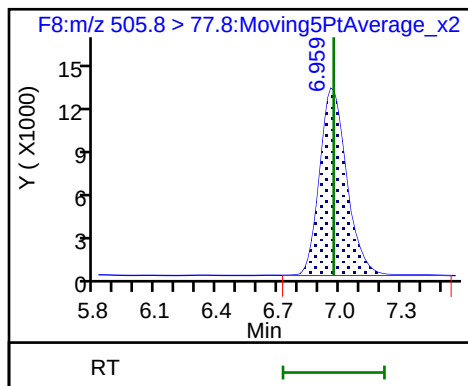
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

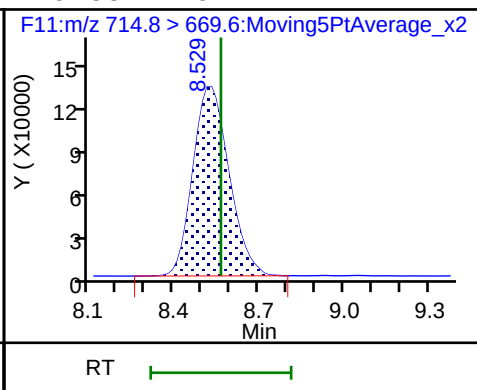
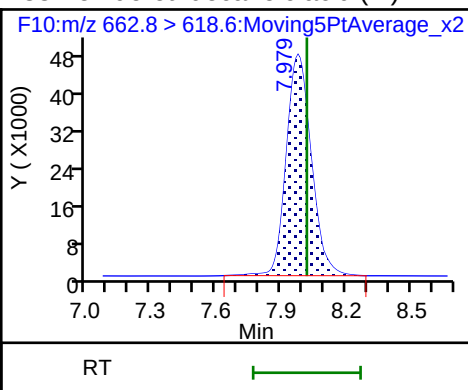
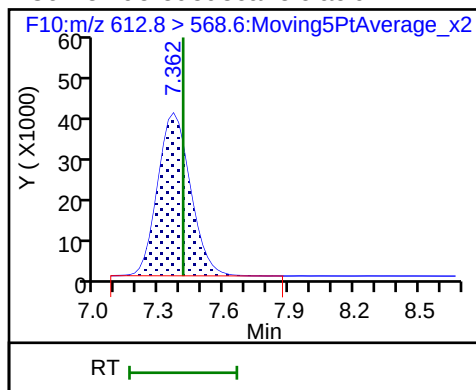
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid (M)

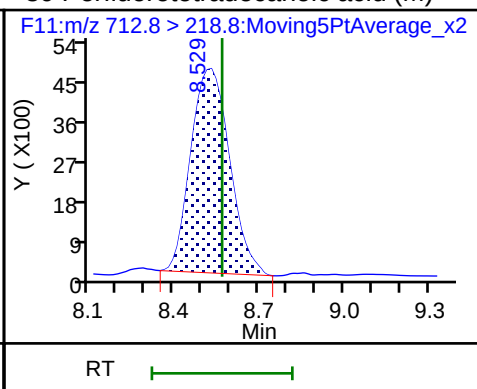
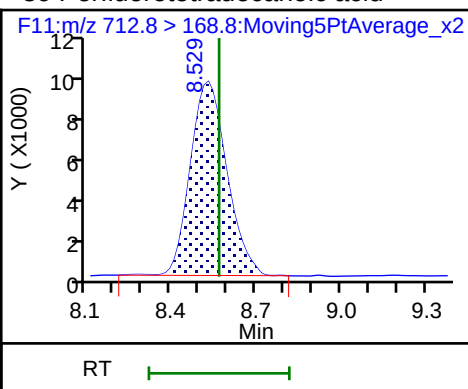
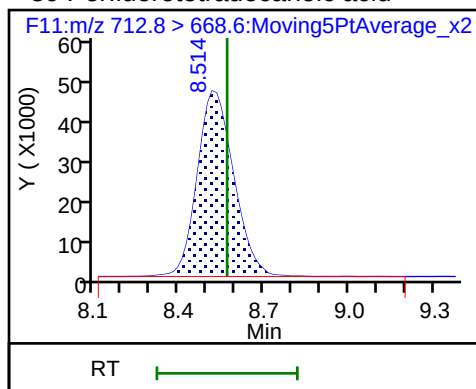
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid (M)



## TestAmerica Burlington

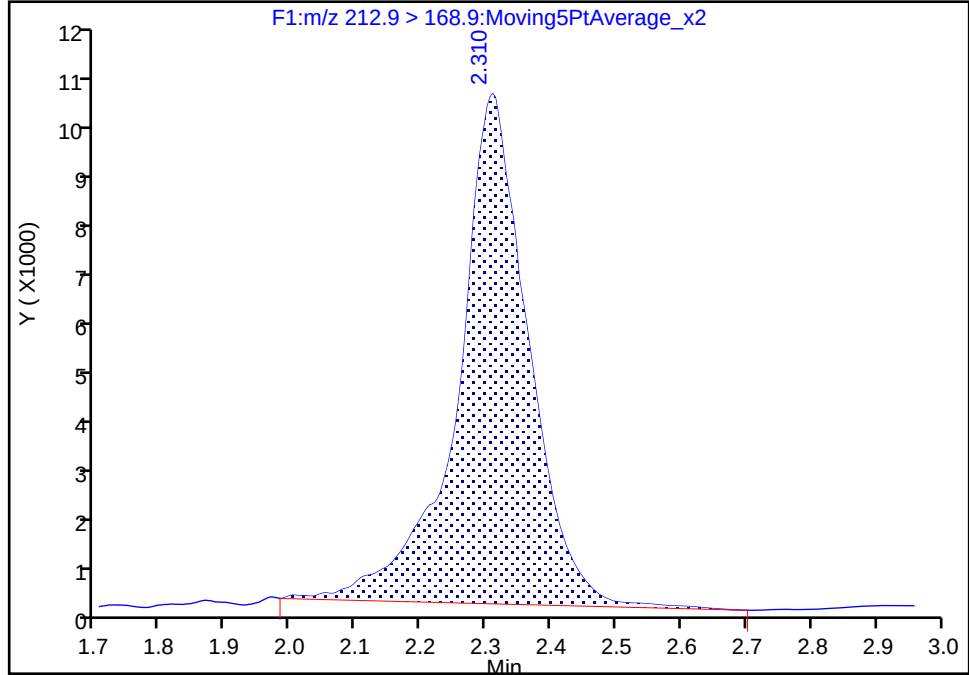
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A30.d |                |             |
| Injection Date: | 12-Oct-2018 23:50:03                                                | Instrument ID: | LC410       |
| Lims ID:        | 460-165718-A-3-B MS                                                 |                |             |
| Client ID:      | MW-54                                                               |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector:      | F1:MRM      |
|                 |                                                                     | Worklist Smp#: | 30          |

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

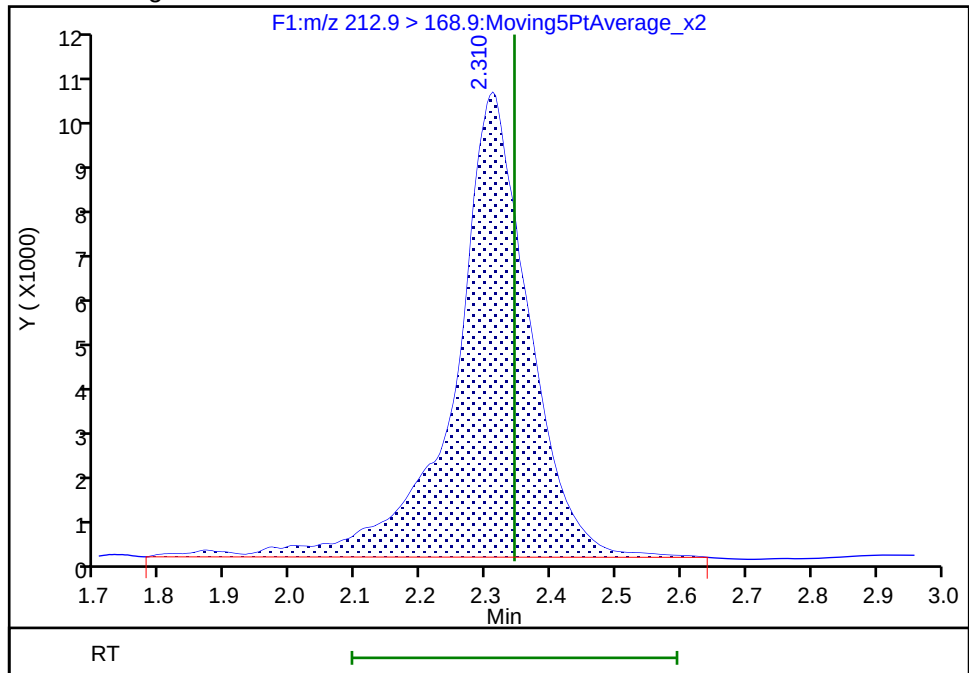
RT: 2.31  
Area: 74193  
Amount: 30.623634  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.31  
Area: 78288  
Amount: 32.144804  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:57:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

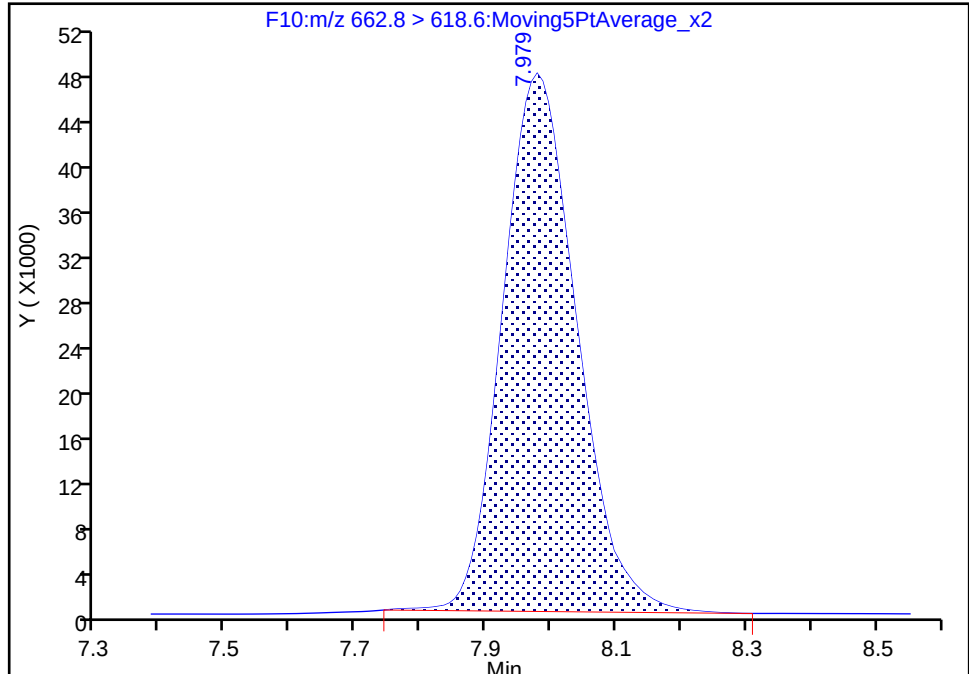
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Injection Date: 12-Oct-2018 23:50:03 Instrument ID: LC410  
Lims ID: 460-165718-A-3-B MS  
Client ID: MW-54  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 30  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F10:MRM

**38 Perfluorotridecanoic acid, CAS: 72629-94-8**

Signal: 1

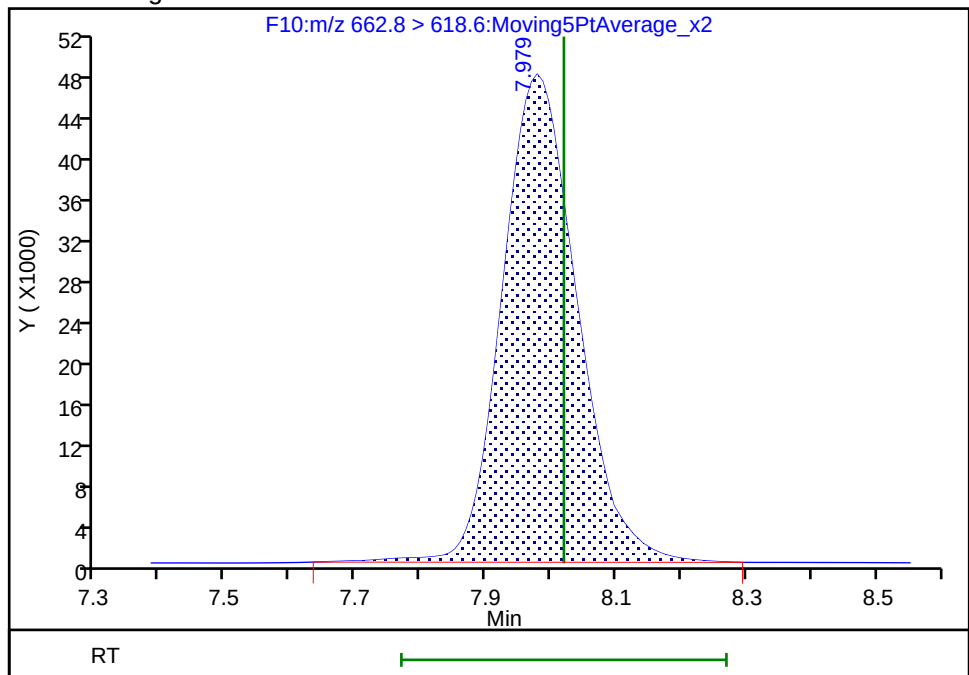
RT: 7.98  
Area: 378992  
Amount: 17.730446  
Amount Units: ng/ml

## Processing Integration Results



RT: 7.98  
Area: 384336  
Amount: 17.980455  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:57:51  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

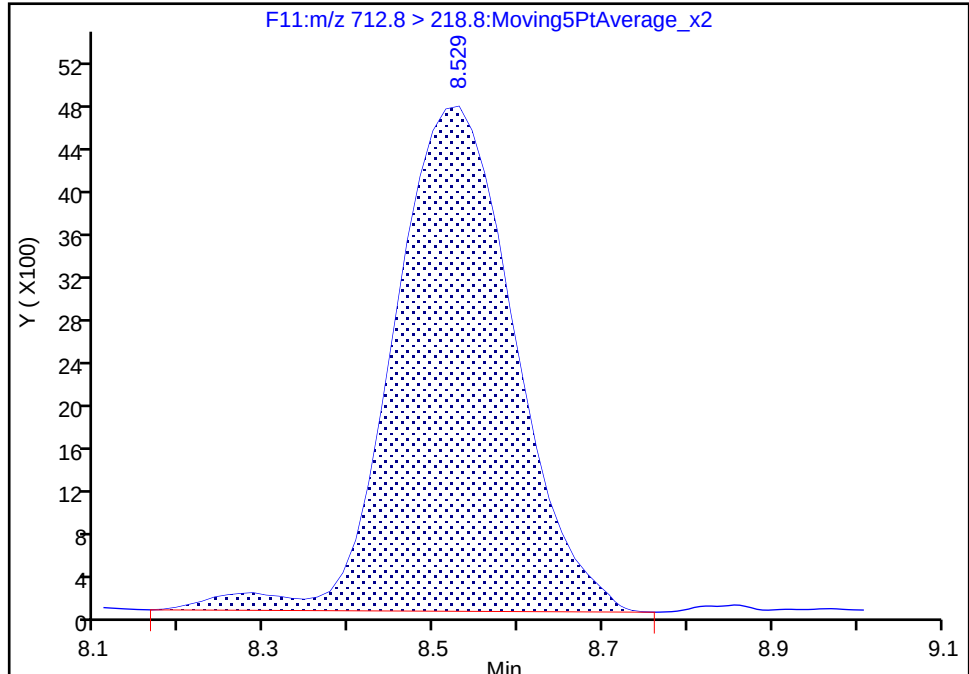
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Injection Date: 12-Oct-2018 23:50:03 Instrument ID: LC410  
Lims ID: 460-165718-A-3-B MS  
Client ID: MW-54  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 30  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F11:MRM

**39 Perfluorotetradecanoic acid, CAS: 376-06-7**

Signal: 3

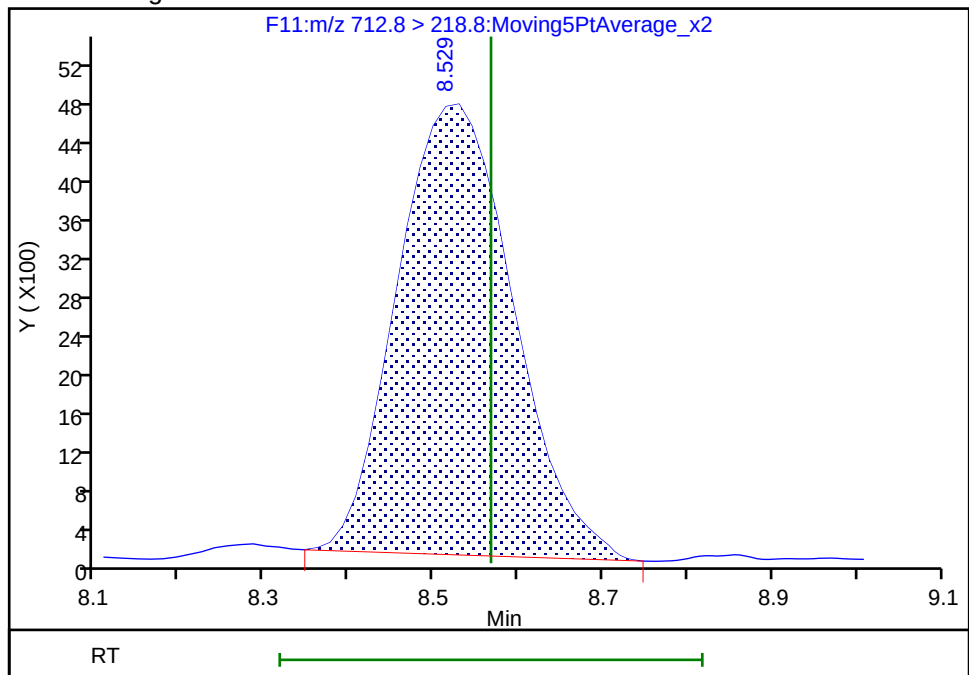
RT: 8.53  
Area: 46495  
Amount: 18.749495  
Amount Units: ng/ml

## Processing Integration Results



RT: 8.53  
Area: 44184  
Amount: 18.749495  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:57:55  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## TestAmerica Burlington

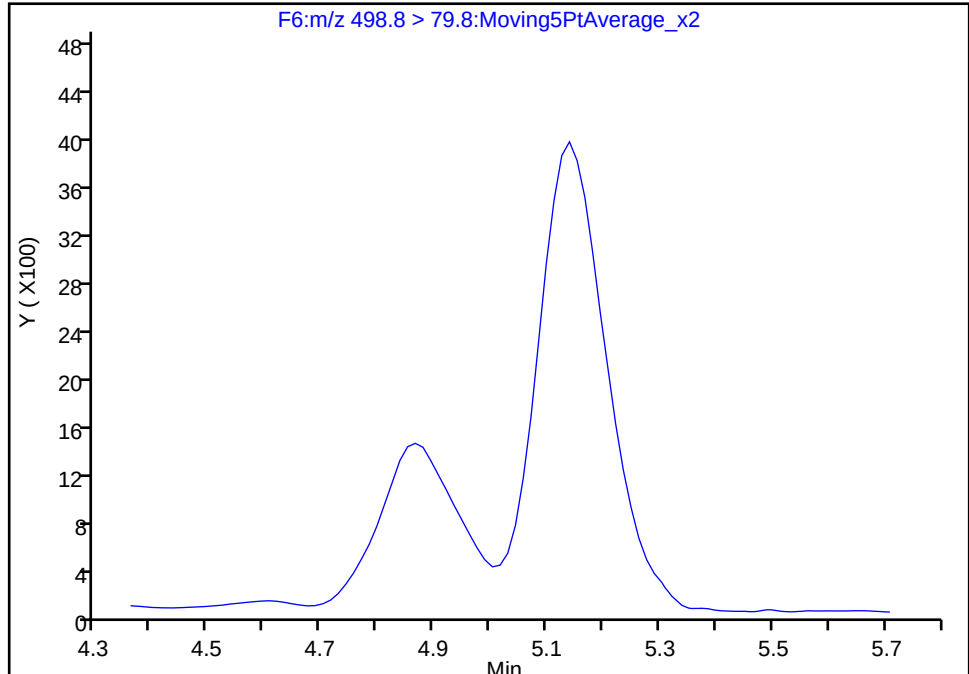
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Injection Date: 12-Oct-2018 23:50:03 Instrument ID: LC410  
Lims ID: 460-165718-A-3-B MS  
Client ID: MW-54  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 30  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

Signal: 1

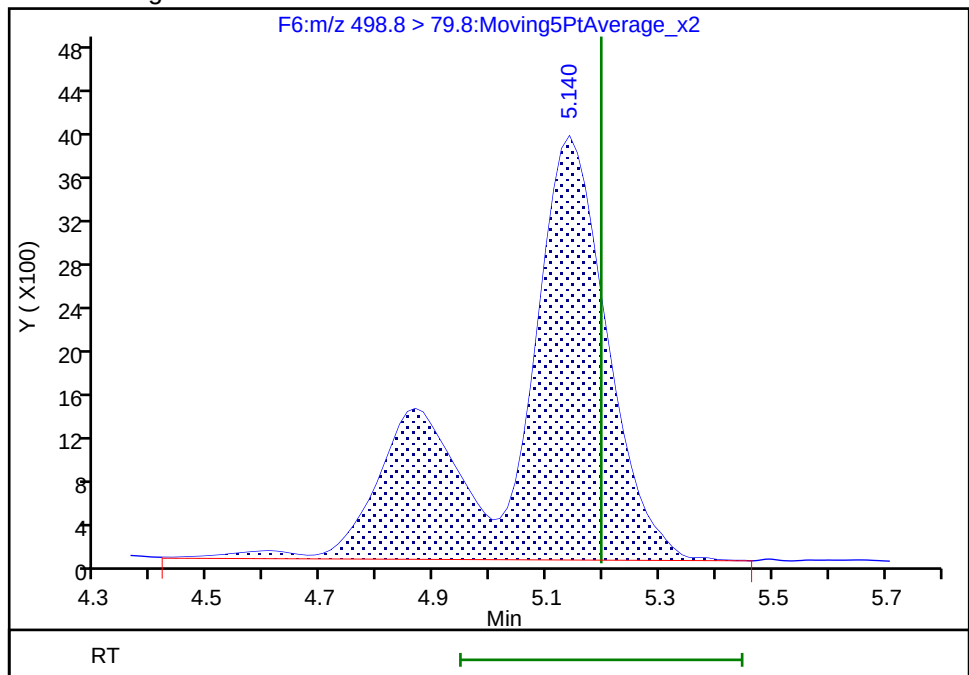
Not Detected  
Expected RT: 5.20

## Processing Integration Results



## Manual Integration Results

RT: 5.14  
Area: 47132  
Amount: 27.529411  
Amount Units: ng/ml



Reviewer: chirgwinb, 13-Oct-2018 10:57:05  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

## TestAmerica Burlington

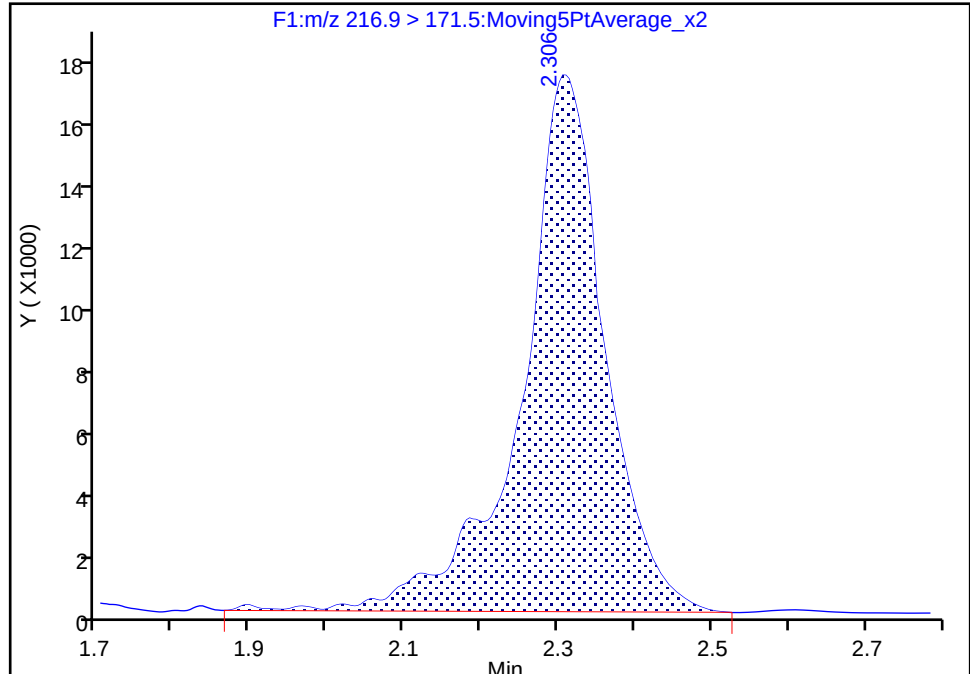
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A30.d  
Injection Date: 12-Oct-2018 23:50:03 Instrument ID: LC410  
Lims ID: 460-165718-A-3-B MS  
Client ID: MW-54  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 30  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F1:MRM

**D 1 13C4 PFBA, CAS: STL00992**

Signal: 1

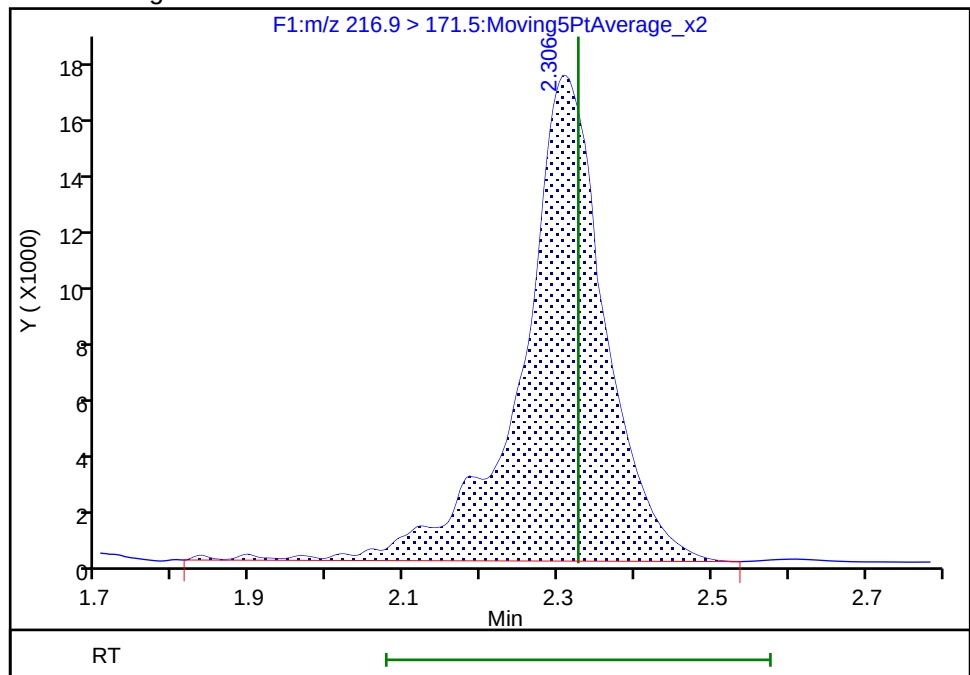
RT: 2.31  
Area: 126436  
Amount: 19.057664  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.31  
Area: 127101  
Amount: 19.157900  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:57:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: _____                 | Lab Sample ID: <u>460-165718-A-3-C MSD</u> |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A31.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/27/2018 13:30</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>306.4 (mL)</u>        | Date Analyzed: <u>10/13/2018 00:05</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.    | COMPOUND NAME                                            | RESULT | Q | RL   | MDL  |
|------------|----------------------------------------------------------|--------|---|------|------|
| 375-22-4   | Perfluorobutanoic acid (PFBA)                            | 50.43  |   | 1.63 | 0.33 |
| 2706-90-3  | Perfluoropentanoic acid (PFPeA)                          | 38.00  |   | 1.63 | 0.61 |
| 307-24-4   | Perfluorohexanoic acid (PFHxA)                           | 39.80  |   | 1.63 | 0.20 |
| 375-85-9   | Perfluoroheptanoic acid (PFHpA)                          | 39.60  |   | 1.63 | 0.26 |
| 335-67-1   | Perfluorooctanoic acid (PFOA)                            | 55.44  |   | 1.63 | 0.26 |
| 375-95-1   | Perfluorononanoic acid (PFNA)                            | 35.61  |   | 1.63 | 0.31 |
| 335-76-2   | Perfluorodecanoic acid (PFDA)                            | 34.84  |   | 1.63 | 0.31 |
| 2058-94-8  | Perfluoroundecanoic acid (PFUnA)                         | 30.99  |   | 1.63 | 0.20 |
| 307-55-1   | Perfluorododecanoic acid (PFDoA)                         | 33.65  |   | 1.63 | 0.29 |
| 72629-94-8 | Perfluorotridecanoic acid (PFTriA)                       | 27.27  |   | 1.63 | 0.20 |
| 376-06-7   | Perfluorotetradecanoic acid (PFTeA)                      | 31.44  |   | 1.63 | 0.37 |
| 375-73-5   | Perfluorobutanesulfonic acid (PFBS)                      | 43.83  |   | 1.63 | 0.36 |
| 355-46-4   | Perfluorohexanesulfonic acid (PFHxS)                     | 34.38  |   | 1.63 | 0.21 |
| 375-92-8   | Perfluoroheptanesulfonic Acid (PFHpS)                    | 35.32  |   | 1.63 | 0.67 |
| 1763-23-1  | Perfluorooctanesulfonic acid (PFOS)                      | 42.90  |   | 1.63 | 0.62 |
| 335-77-3   | Perfluorodecanesulfonic acid (PFDS)                      | 30.49  |   | 1.63 | 0.43 |
| 754-91-6   | Perfluorooctanesulfonamide (PFOSA)                       | 34.33  |   | 1.63 | 0.46 |
| 2355-31-9  | N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 32.87  |   | 16.3 | 0.37 |
| 2991-50-6  | N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 32.92  |   | 16.3 | 0.57 |
| 27619-97-2 | 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)           | 32.77  |   | 16.3 | 0.82 |
| 39108-34-4 | 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)           | 36.99  |   | 16.3 | 0.46 |

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

|                                         |                                            |
|-----------------------------------------|--------------------------------------------|
| Lab Name: <u>TestAmerica Burlington</u> | Job No.: <u>460-165769-1</u>               |
| SDG No.: _____                          |                                            |
| Client Sample ID: _____                 | Lab Sample ID: <u>460-165718-A-3-C MSD</u> |
| Matrix: <u>Water</u>                    | Lab File ID: <u>PF101218A31.d</u>          |
| Analysis Method: <u>537 (modified)</u>  | Date Collected: <u>09/27/2018 13:30</u>    |
| Extraction Method: <u>3535</u>          | Date Extracted: <u>10/05/2018 12:20</u>    |
| Sample wt/vol: <u>306.4 (mL)</u>        | Date Analyzed: <u>10/13/2018 00:05</u>     |
| Con. Extract Vol.: <u>0.5 (mL)</u>      | Dilution Factor: <u>1</u>                  |
| Injection Volume: <u>20 (uL)</u>        | GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u> |
| % Moisture: _____                       | GPC Cleanup: (Y/N) <u>N</u>                |
| Analysis Batch No.: <u>135180</u>       | Units: <u>ng/L</u>                         |

| CAS NO.  | ISOTOPE DILUTION | %REC | Q | LIMITS |
|----------|------------------|------|---|--------|
| STL00994 | 18O2 PFHxS       | 77   |   | 25-150 |
| STL01892 | 13C4 PFHpA       | 69   |   | 25-150 |
| STL00990 | 13C4 PFOA        | 86   |   | 25-150 |
| STL00991 | 13C4 PFOS        | 75   |   | 25-150 |
| STL00995 | 13C5 PFNA        | 105  |   | 25-150 |
| STL00992 | 13C4 PFBA        | 36   |   | 25-150 |
| STL00993 | 13C2 PFHxA       | 41   |   | 25-150 |
| STL00996 | 13C2 PFDA        | 126  |   | 25-150 |
| STL00997 | 13C2 PFUnA       | 110  |   | 25-150 |
| STL00998 | 13C2 PFDoA       | 114  |   | 25-150 |
| STL01056 | 13C8 FOSA        | 42   |   | 25-150 |
| STL01893 | 13C5 PFPeA       | 44   |   | 25-150 |
| STL02116 | 13C2 PFTeDA      | 120  |   | 25-150 |
| STL02118 | d3-NMeFOSAA      | 90   |   | 25-150 |
| STL02117 | d5-NEtFOSAA      | 95   |   | 25-150 |
| STL02279 | M2-6:2 FTS       | 187  | * | 25-150 |
| STL02280 | M2-8:2 FTS       | 341  | * | 25-150 |
| STL02337 | 13C3 PFBS        | 58   |   | 25-150 |

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A31.d  
 Lims ID: 460-165718-A-3-C MSD  
 Client ID: MW-54  
 Sample Type: MSD  
 Inject. Date: 13-Oct-2018 00:05:53 ALS Bottle#: 0 Worklist Smp#: 31  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 200-0032613-031 3MSD  
 Misc. Info.: PFAS21 101218A ICAL  
 Operator ID: BC Instrument ID: LC410  
 Method: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PFCISO\_12MRM.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 13-Oct-2018 14:47:59 Calib Date: 12-Oct-2018 19:35:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A14.d

Column 1 : Det: F1:MRM

Process Host: XAWRK017

First Level Reviewer: chirgwinb

Date: 13-Oct-2018 10:59:35

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| D 1 13C4 PFBA                         |       |           |           |           |          |                 |               |      |      | M     |
| 216.9 > 171.5                         | 2.298 | 2.326     | -0.028    | 1.000     | 130661   | 17.8            |               | 35.5 | 141  | M     |
| 2 Perfluorobutanoic acid              |       |           |           |           |          |                 |               |      |      | M     |
| 212.9 > 168.9                         | 2.310 | 2.344     | -0.034    | 1.005     | 77374    | 30.9            |               | 155  | 76.5 | M     |
| D 3 13C5 PFPeA                        |       |           |           |           |          |                 |               |      |      |       |
| 267.7 > 222.6                         | 2.719 | 2.763     | -0.044    | 1.000     | 38622    | 21.9            |               | 43.8 | 77.4 |       |
| 4 Perfluoropentanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 262.9 > 218.8                         | 2.708 | 2.763     | -0.055    | 0.996     | 121790   | 23.3            |               | 116  | 103  |       |
| D 6 13C3 PFBS                         |       |           |           |           |          |                 |               |      |      |       |
| 302.0 > 79.8                          | 2.770 | 2.829     | -0.059    | 1.000     | 69490    | 26.9            |               | 57.9 | 274  |       |
| 5 Perfluorobutanesulfonic acid        |       |           |           |           |          |                 |               |      |      | M     |
| 298.9 > 80.0                          | 2.770 | 2.830     | -0.060    | 1.000     | 81605    | 26.9            |               | 134  | 61.9 | M     |
| D 7 13C2 PFHxA                        |       |           |           |           |          |                 |               |      |      | M     |
| 314.8 > 269.6                         | 3.127 | 3.188     | -0.061    | 1.000     | 108957   | 20.3            |               | 40.5 | 444  | M     |
| 8 Perfluorohexanoic acid              |       |           |           |           |          |                 |               |      |      | M     |
| 312.8 > 268.6                         | 3.127 | 3.189     | -0.062    | 1.000     | 56482    | 24.4            |               | 122  | 72.4 | M     |
| D 9 13C4 PFHpA                        |       |           |           |           |          |                 |               |      |      |       |
| 366.9 > 321.8                         | 3.659 | 3.725     | -0.066    | 1.000     | 543655   | 34.6            |               | 69.1 | 1598 |       |
| 10 Perfluoroheptanoic acid            |       |           |           |           |          |                 |               |      |      |       |
| 362.9 > 318.8                         | 3.670 | 3.728     | -0.058    | 1.003     | 265173   | 24.3            |               | 121  | 440  |       |
| 12 Perfluorohexanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 399.0 > 80.0                          | 3.703 | 3.769     | -0.066    | 1.000     | 94300    | 21.1            |               | 105  | 254  |       |
| D 11 18O2 PFHxS                       |       |           |           |           |          |                 |               |      |      |       |
| 402.9 > 83.8                          | 3.703 | 3.770     | -0.067    | 1.000     | 113462   | 36.5            |               | 77.1 | 1008 |       |
| D 13 M2-6:2 FTS                       |       |           |           |           |          |                 |               |      |      |       |
| 428.6 > 408.6                         | 4.304 | 4.353     | -0.049    | 1.000     | 50426    | 88.8            |               | 187  | 257  |       |
| 14 1H,1H,2H,2H-perfluorooctanesulfoni |       |           |           |           |          |                 |               |      |      |       |
| 426.6 > 406.6                         | 4.304 | 4.355     | -0.051    | 1.000     | 22037    | 20.1            |               | 100  | 357  |       |

| Signal                                | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits) | %Rec | S/N  | Flags |
|---------------------------------------|-------|-----------|-----------|-----------|----------|-----------------|---------------|------|------|-------|
| * 15 13C2 PFOA                        |       |           |           |           |          |                 |               |      |      |       |
| 414.9 > 369.8                         | 4.342 | 4.401     | -0.059    |           | 682216   | 50.0            |               |      | 3076 |       |
| D 17 13C4 PFOA                        |       |           |           |           |          |                 |               |      |      |       |
| 416.9 > 371.8                         | 4.342 | 4.407     | -0.065    | 1.000     | 541687   | 42.9            |               | 85.8 | 1635 |       |
| 16 Perfluorooctanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 412.9 > 368.8                         | 4.342 | 4.409     | -0.067    | 1.000     | 385317   | 34.0            |               | 170  | 718  |       |
| 18 Perfluoroheptanesulfonic acid      |       |           |           |           |          |                 |               |      |      |       |
| 448.8 > 79.8                          | 4.374 | 4.441     | -0.067    | 0.851     | 37011    | 21.6            |               | 108  | 192  |       |
| D 20 13C5 PFNA                        |       |           |           |           |          |                 |               |      |      |       |
| 467.8 > 422.8                         | 5.127 | 5.171     | -0.044    | 1.000     | 847927   | 52.5            |               | 105  | 1636 |       |
| 19 Perfluorononanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 462.8 > 418.8                         | 5.127 | 5.175     | -0.048    | 1.000     | 400860   | 21.8            |               | 109  | 940  |       |
| D 22 13C4 PFOS                        |       |           |           |           |          |                 |               |      |      |       |
| 502.8 > 79.8                          | 5.140 | 5.195     | -0.055    | 1.000     | 92993    | 35.6            |               | 74.6 | 330  |       |
| 21 Perfluorooctanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 498.8 > 79.8                          | 5.140 | 5.197     | -0.057    | 1.000     | 52822    | 26.3            |               | 131  | 159  | M     |
| D 24 M2-8:2 FTS                       |       |           |           |           |          |                 |               |      |      |       |
| 528.8 > 508.8                         | 5.882 | 5.929     | -0.047    | 1.000     | 696373   | 163.1           |               | 341  | 2075 |       |
| 23 1H,1H,2H,2H-perfluorodecanesulfoni |       |           |           |           |          |                 |               |      |      |       |
| 526.8 > 506.5                         | 5.882 | 5.932     | -0.050    | 1.000     | 236971   | 22.7            |               | 113  | 897  |       |
| D 26 13C2 PFDA                        |       |           |           |           |          |                 |               |      |      |       |
| 514.9 > 469.5                         | 5.902 | 5.950     | -0.048    | 1.000     | 1114276  | 62.9            |               | 126  | 2541 |       |
| 25 Perfluorodecanoic acid             |       |           |           |           |          |                 |               |      |      |       |
| 512.9 > 468.5                         | 5.902 | 5.956     | -0.054    | 1.000     | 473634   | 21.4            |               | 107  | 496  |       |
| D 27 d3-NMeFOSAA                      |       |           |           |           |          |                 |               |      |      |       |
| 572.8 > 418.8                         | 6.259 | 6.311     | -0.052    | 1.000     | 224799   | 45.1            |               | 90.1 | 698  |       |
| 28 N-methylperfluorooctanesulfonamido |       |           |           |           |          |                 |               |      |      |       |
| 569.8 > 418.8                         | 6.259 | 6.315     | -0.056    | 1.000     | 95612    | 20.1            |               | 101  | 258  |       |
| D 29 d5-NEtFOSAA                      |       |           |           |           |          |                 |               |      |      |       |
| 588.9 > 418.8                         | 6.634 | 6.674     | -0.040    | 1.000     | 206195   | 47.6            |               | 95.2 | 1485 |       |
| 30 N-ethylperfluorooctanesulfonamidoa |       |           |           |           |          |                 |               |      |      |       |
| 583.9 > 418.8                         | 6.634 | 6.697     | -0.063    | 1.000     | 81762    | 20.2            |               | 101  | 1634 |       |
| 31 Perfluorodecanesulfonic acid       |       |           |           |           |          |                 |               |      |      |       |
| 598.8 > 79.8                          | 6.652 | 6.706     | -0.054    | 1.294     | 41439    | 18.7            |               | 93.4 | 440  |       |
| D 32 13C2 PFUnA                       |       |           |           |           |          |                 |               |      |      |       |
| 564.8 > 519.8                         | 6.670 | 6.720     | -0.050    | 1.000     | 1120295  | 55.2            |               | 110  | 3286 |       |
| 33 Perfluoroundecanoic acid           |       |           |           |           |          |                 |               |      |      |       |
| 562.8 > 518.6                         | 6.670 | 6.720     | -0.050    | 1.000     | 376976   | 19.0            |               | 95.0 | 506  |       |
| D 35 13C8 FOSA                        |       |           |           |           |          |                 |               |      |      |       |
| 505.8 > 77.8                          | 6.959 | 6.973     | -0.014    | 1.000     | 96987    | 21.0            |               | 41.9 | 593  |       |
| 34 Perfluorooctanesulfonamide         |       |           |           |           |          |                 |               |      |      |       |
| 497.8 > 77.8                          | 6.959 | 6.973     | -0.014    | 1.000     | 35011    | 21.0            |               | 105  | 196  |       |
| D 37 13C2 PFDoA                       |       |           |           |           |          |                 |               |      |      |       |
| 614.8 > 569.6                         | 7.362 | 7.402     | -0.040    | 1.000     | 1264340  | 56.9            |               | 114  | 3209 |       |
| 36 Perfluorododecanoic acid           |       |           |           |           |          |                 |               |      |      |       |
| 612.8 > 568.6                         | 7.362 | 7.407     | -0.045    | 1.000     | 451002   | 20.6            |               | 103  | 3950 |       |
| 38 Perfluorotridecanoic acid          |       |           |           |           |          |                 |               |      |      |       |
| 662.8 > 618.6                         | 7.970 | 8.020     | -0.050    | 0.934     | 403705   | 16.7            |               | 83.5 | 713  |       |

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A31.d

| Signal                         | RT    | EXP<br>RT | DLT<br>RT | REL<br>RT | Response | Amount<br>ng/ml | Ratio(Limits)   | %Rec | S/N  | Flags |
|--------------------------------|-------|-----------|-----------|-----------|----------|-----------------|-----------------|------|------|-------|
| D 40 13C2 PFTeDA               |       |           |           |           |          |                 |                 |      |      |       |
| 714.8 > 669.6                  | 8.529 | 8.563     | -0.034    | 1.000     | 1298140  | 60.1            |                 | 120  | 1092 |       |
| 39 Perfluorotetradecanoic acid |       |           |           |           |          |                 |                 |      |      | M     |
| 712.8 > 668.6                  | 8.529 | 8.567     | -0.038    | 1.000     | 489112   | 19.3            |                 | 96.3 | 1469 |       |
| 712.8 > 168.8                  | 8.529 | 8.567     | -0.038    | 1.000     | 95676    |                 | 5.11(0.00-0.00) |      | 203  |       |
| 712.8 > 218.8                  | 8.514 | 8.567     | -0.053    | 0.998     | 54417    |                 | 8.99(0.00-0.00) |      | 155  | M     |

### QC Flag Legend

Review Flags

M - Manually Integrated

## TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A31.d

Injection Date: 13-Oct-2018 00:05:53

Instrument ID: LC410

Lims ID: 460-165718-A-3-C MSD

Client ID: MW-54

Operator ID: BC

ALS Bottle#: 0

Worklist Smp#: 31

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

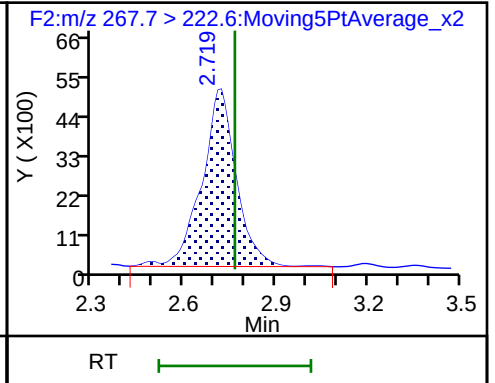
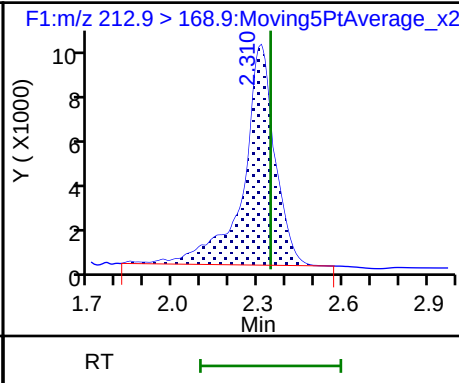
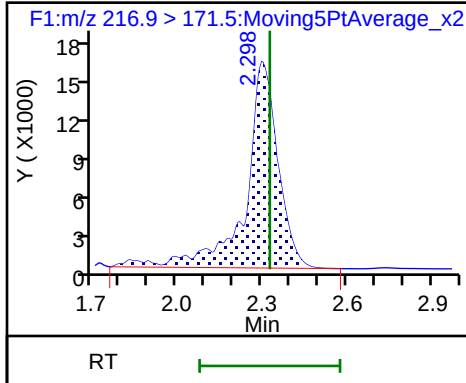
Method: PFCISO\_12MRM

Limit Group: LC\_PFC\_ICAL

## D 1 13C4 PFBA (M)

## 2 Perfluorobutanoic acid (M)

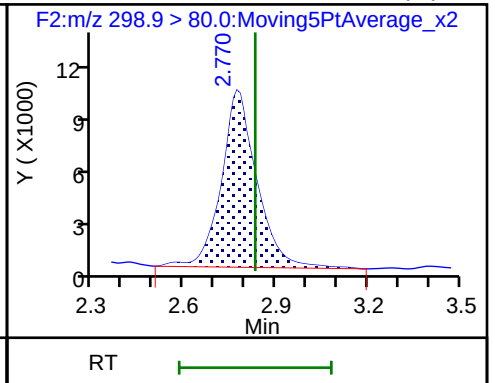
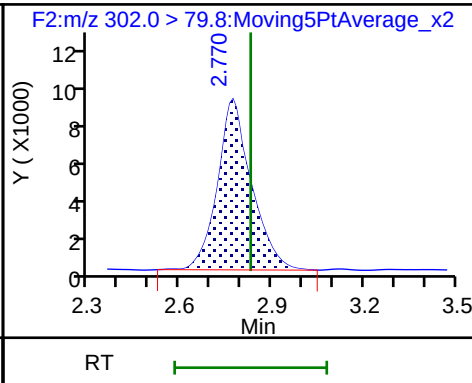
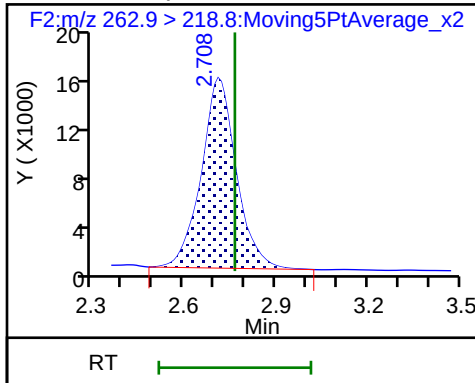
## D 3 13C5 PFPeA



## 4 Perfluoropentanoic acid

## D 6 13C3 PFBS

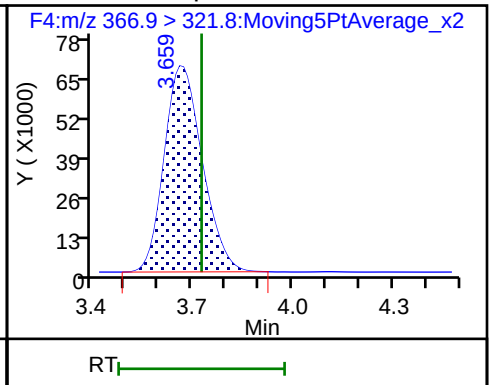
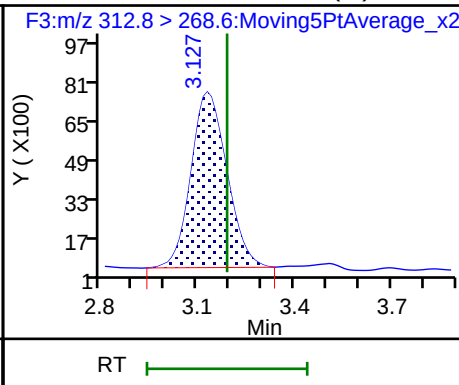
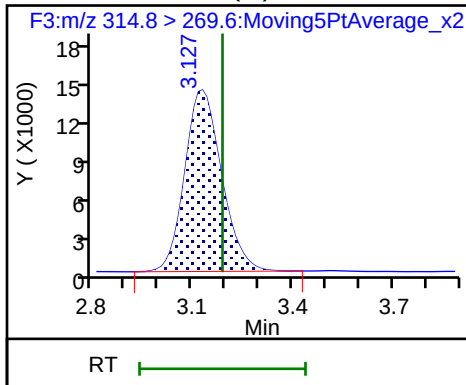
## 5 Perfluorobutanesulfonic acid (M)



## D 7 13C2 PFHxA (M)

## 8 Perfluorohexanoic acid (M)

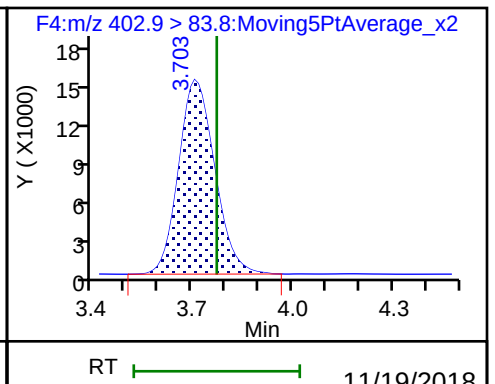
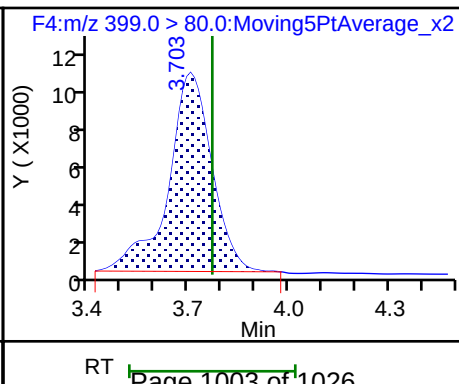
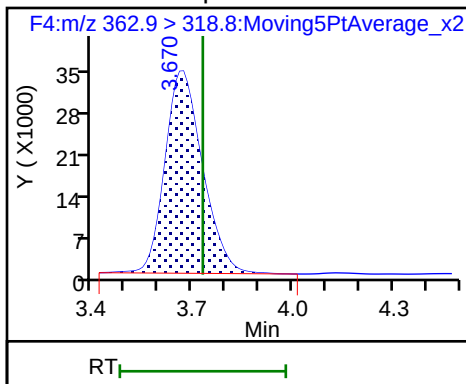
## D 9 13C4 PFHpA



## 10 Perfluoroheptanoic acid

## 12 Perfluorohexanesulfonic acid

## D 11 18O2 PFHxS

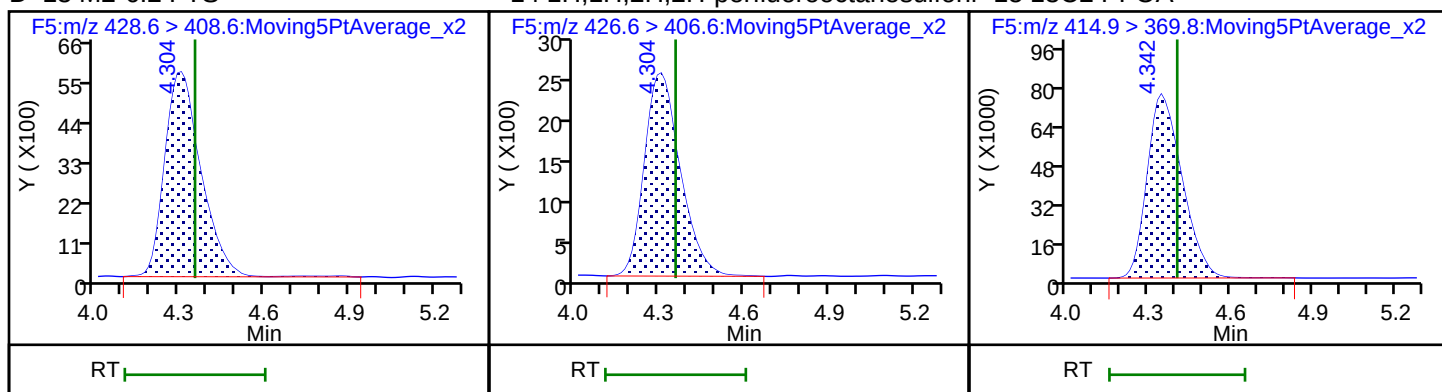




D 13 M2-6:2 FTS

14 1H,1H,2H,2H-perfluorooctanesulfonate

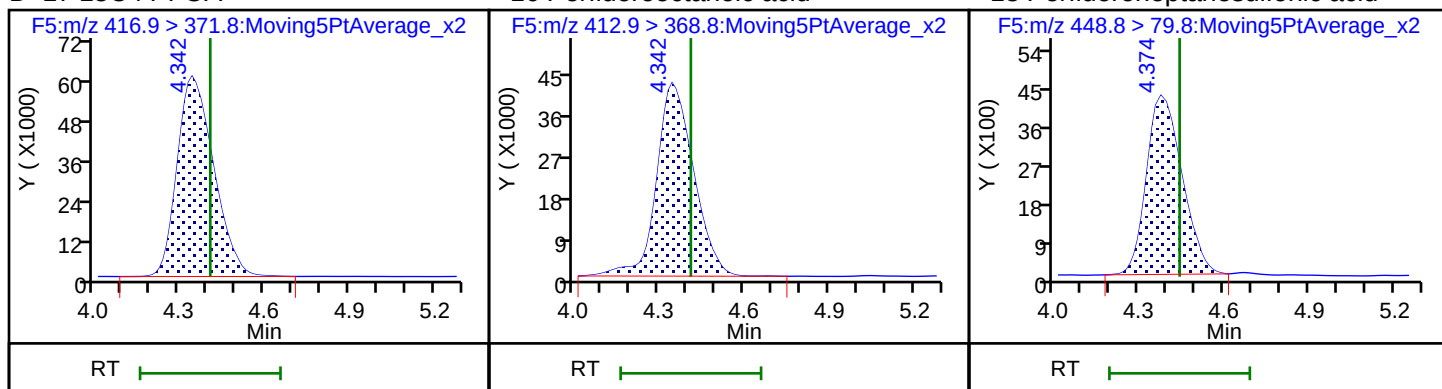
15 13C2 PFOA



D 17 13C4 PFOA

16 Perfluorooctanoic acid

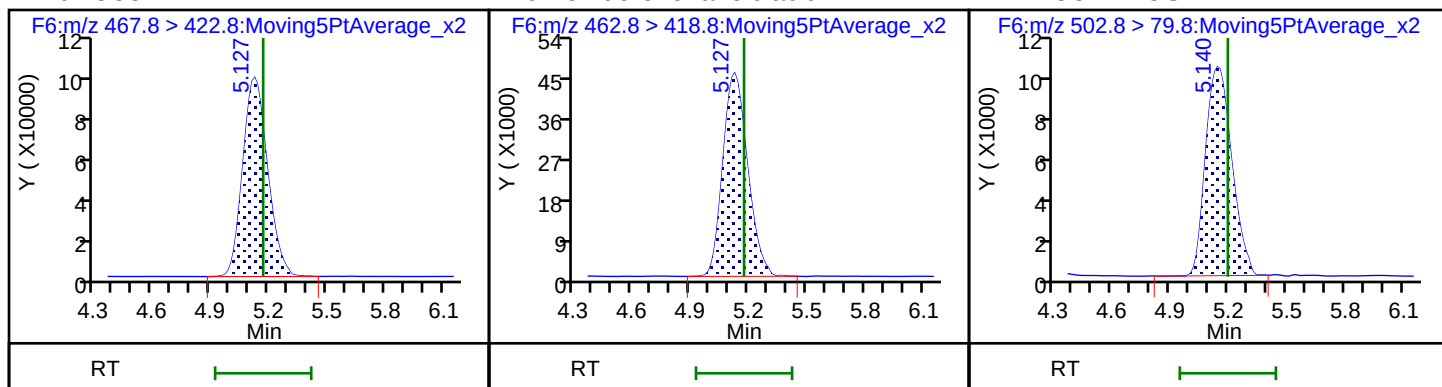
18 Perfluoroheptanesulfonic acid



D 20 13C5 PFNA

19 Perfluorononanoic acid

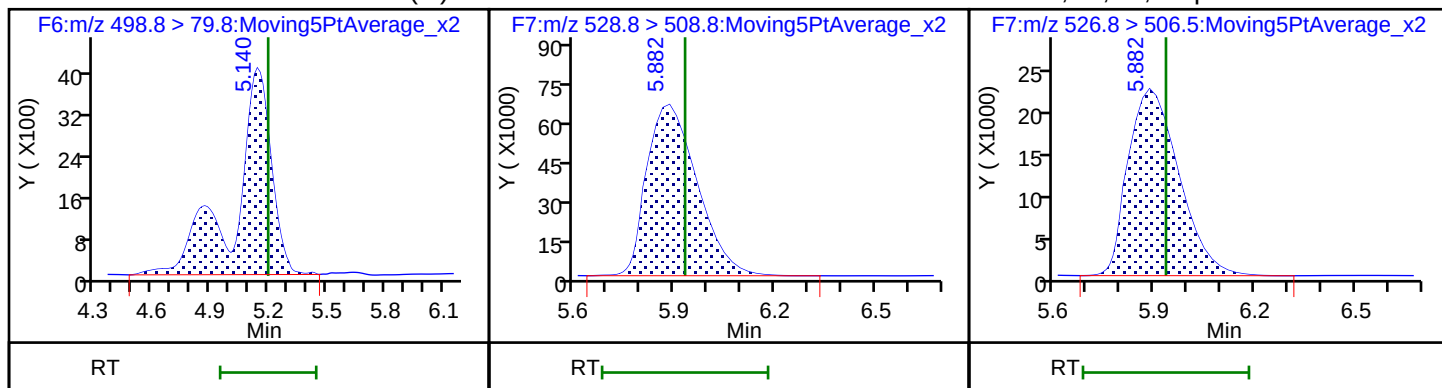
D 22 13C4 PFOS



21 Perfluorooctanesulfonic acid (M)

D 24 M2-8:2 FTS

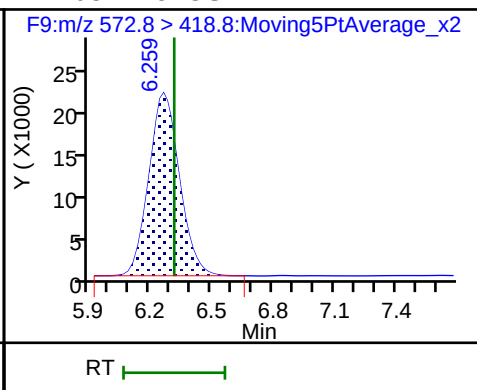
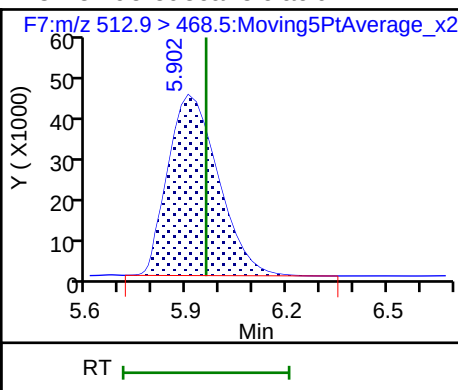
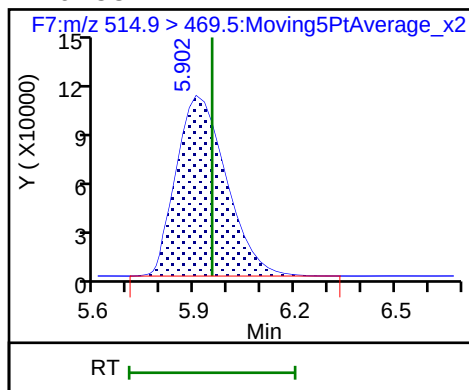
23 1H,1H,2H,2H-perfluorodecanesulfonate



## D 26 13C2 PFDA

## 25 Perfluorodecanoic acid

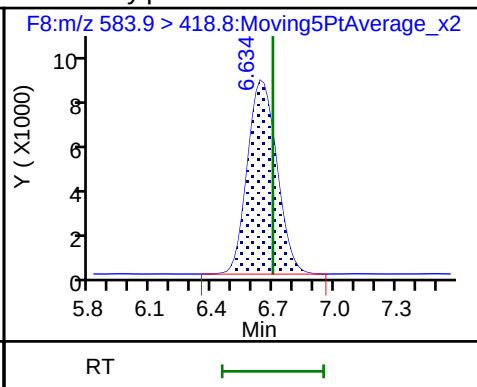
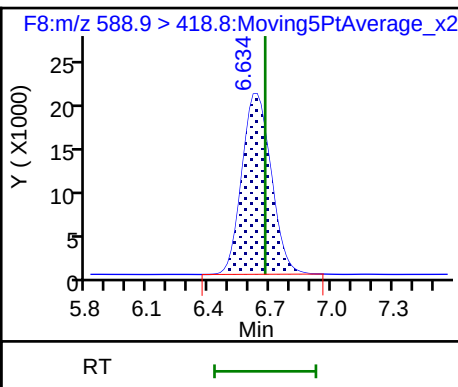
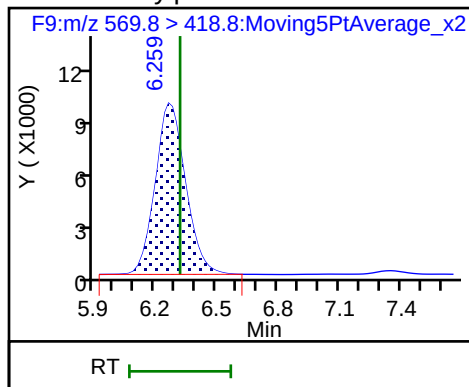
## D 27 d3-NMeFOSAA



## 28 N-methylperfluorooctanesulfonamid

## D 29 d5-NEtFOSAA

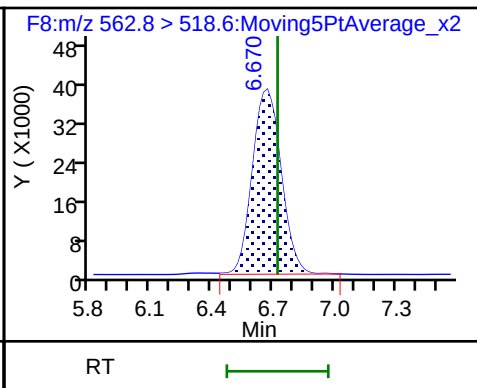
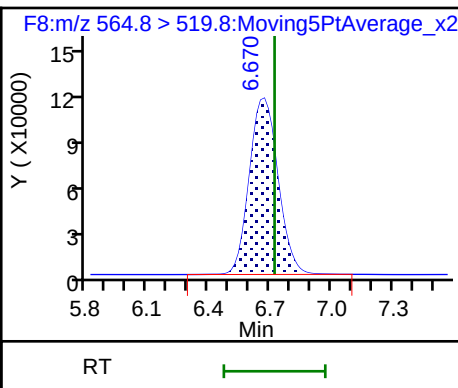
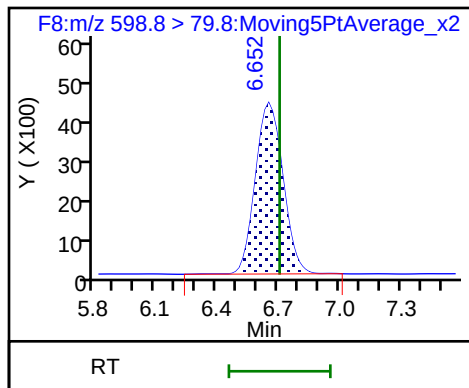
## 30 N-ethylperfluorooctanesulfonamidoa



## 31 Perfluorodecanesulfonic acid

## D 32 13C2 PFUnA

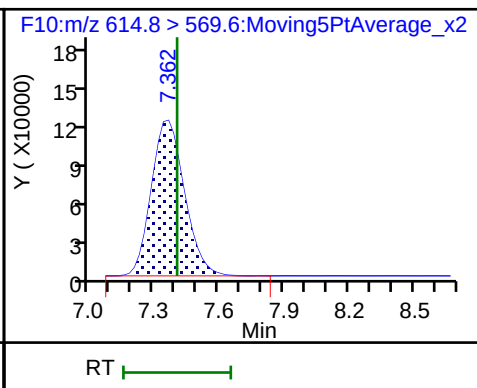
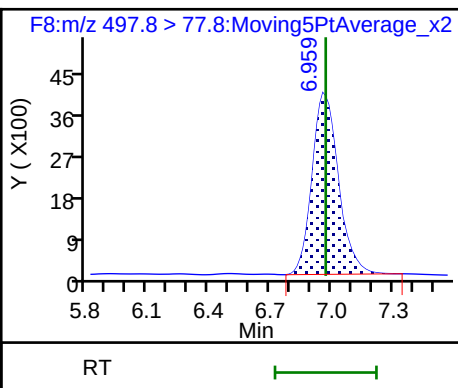
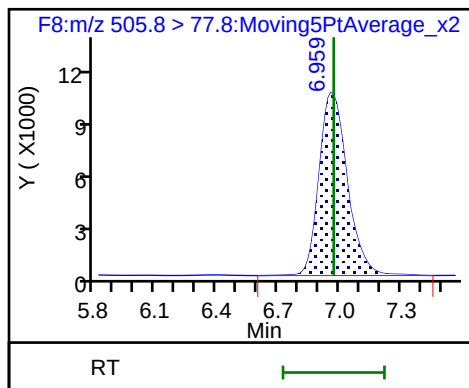
## 33 Perfluoroundecanoic acid



## D 35 13C8 FOSA

## 34 Perfluorooctanesulfonamide

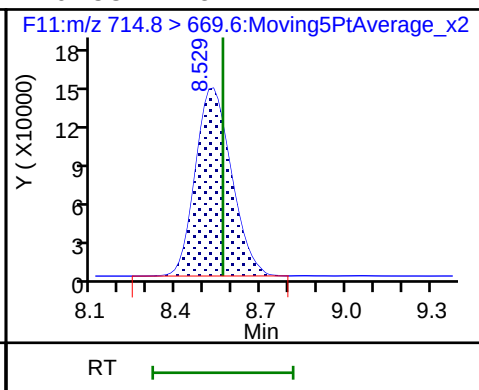
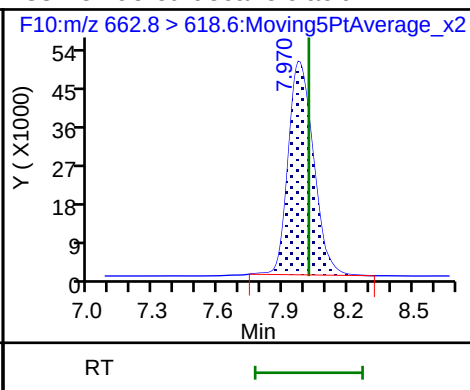
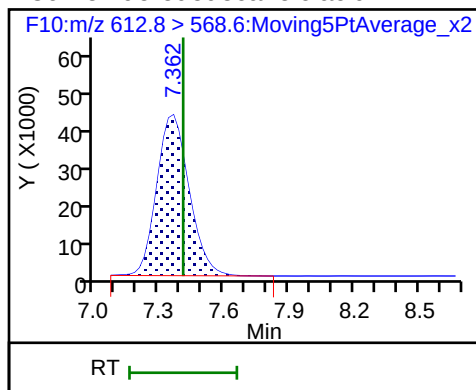
## D 37 13C2 PFDaA



## 36 Perfluorododecanoic acid

## 38 Perfluorotridecanoic acid

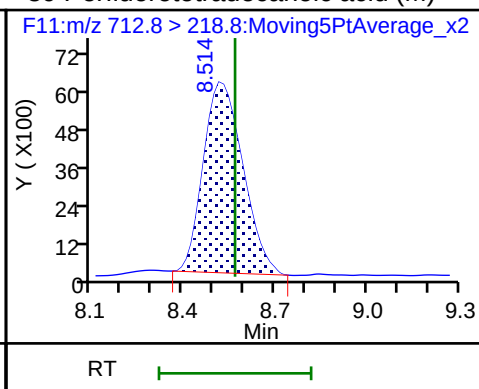
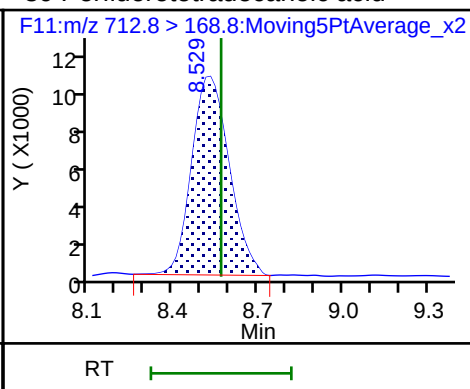
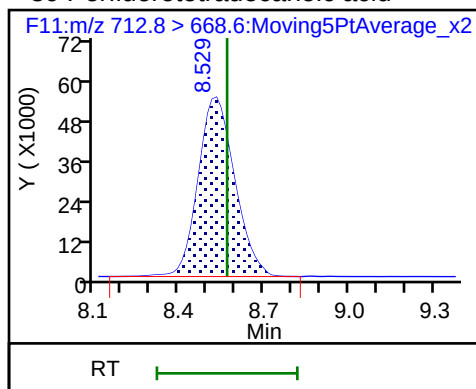
## D 40 13C2 PFTeDA



## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid

## 39 Perfluorotetradecanoic acid (M)



## TestAmerica Burlington

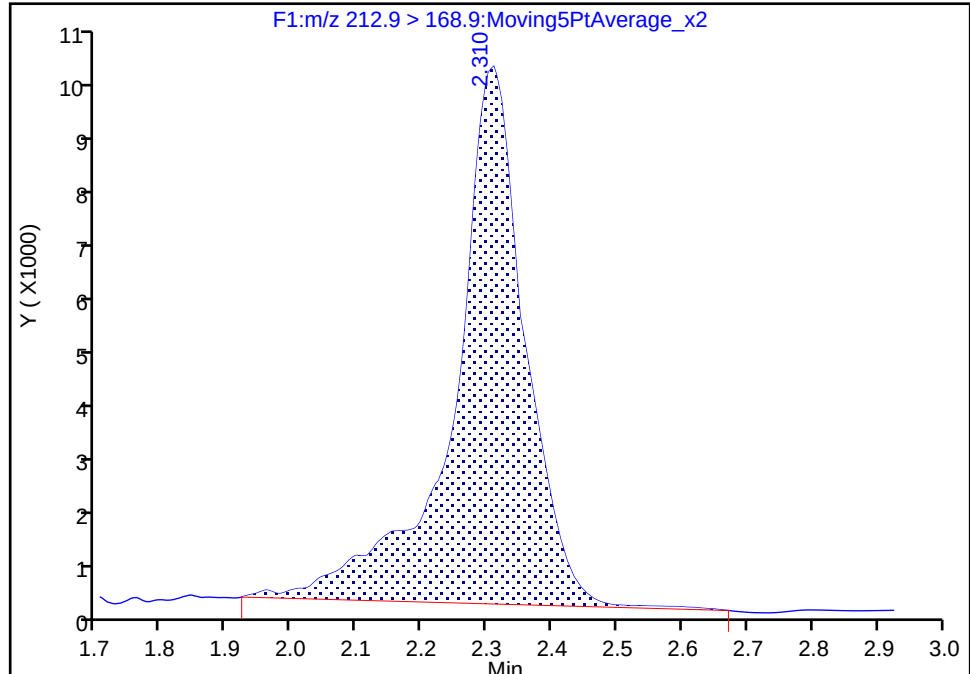
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A31.d |                |             |
| Injection Date: | 13-Oct-2018 00:05:53                                                | Instrument ID: | LC410       |
| Lims ID:        | 460-165718-A-3-C MSD                                                |                |             |
| Client ID:      | MW-54                                                               |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector:      | F1:MRM      |
|                 |                                                                     | Worklist Smp#: | 31          |

**2 Perfluorobutanoic acid, CAS: 375-22-4**

Signal: 1

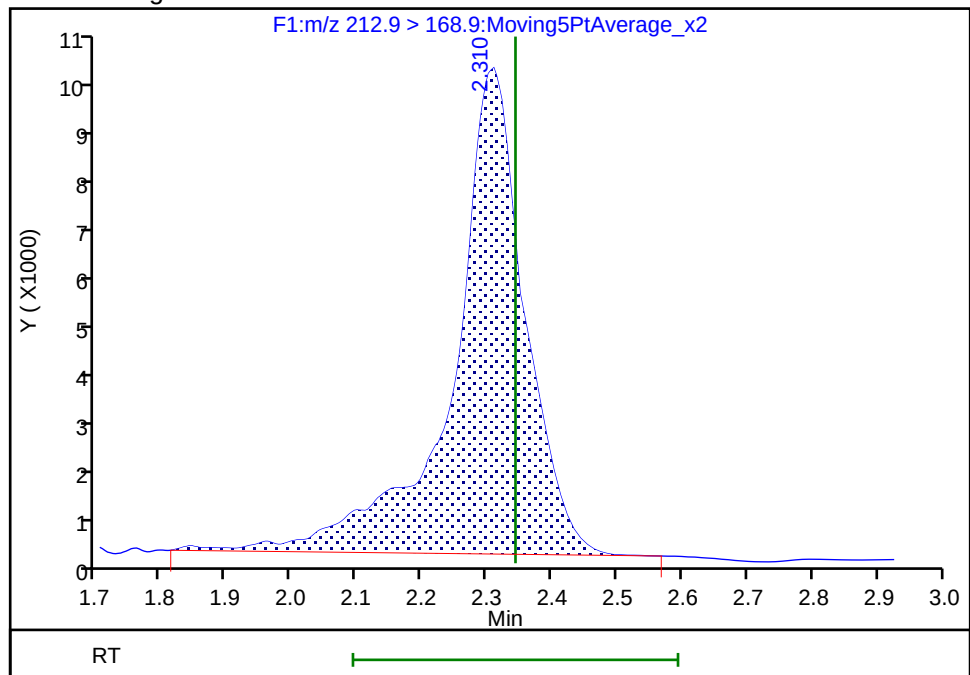
RT: 2.31  
Area: 76592  
Amount: 32.750183  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.31  
Area: 77374  
Amount: 30.903923  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:58:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

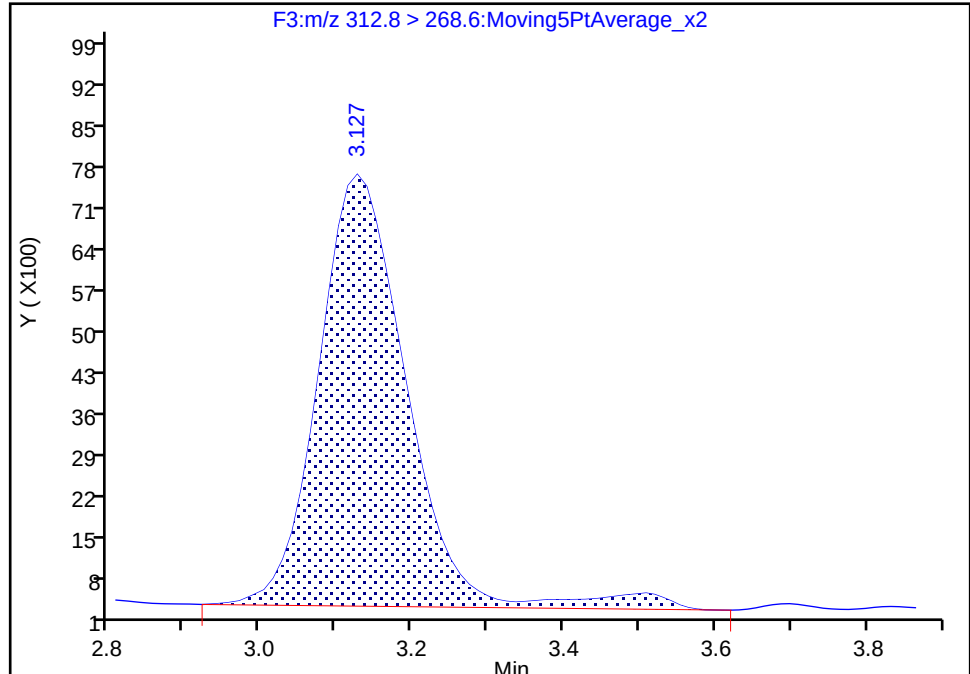
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A31.d |                |             |
| Injection Date: | 13-Oct-2018 00:05:53                                                | Instrument ID: | LC410       |
| Lims ID:        | 460-165718-A-3-C MSD                                                |                |             |
| Client ID:      | MW-54                                                               |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector:      | F3:MRM      |
|                 |                                                                     | Worklist Smp#: | 31          |

**8 Perfluorohexanoic acid, CAS: 307-24-4**

Signal: 1

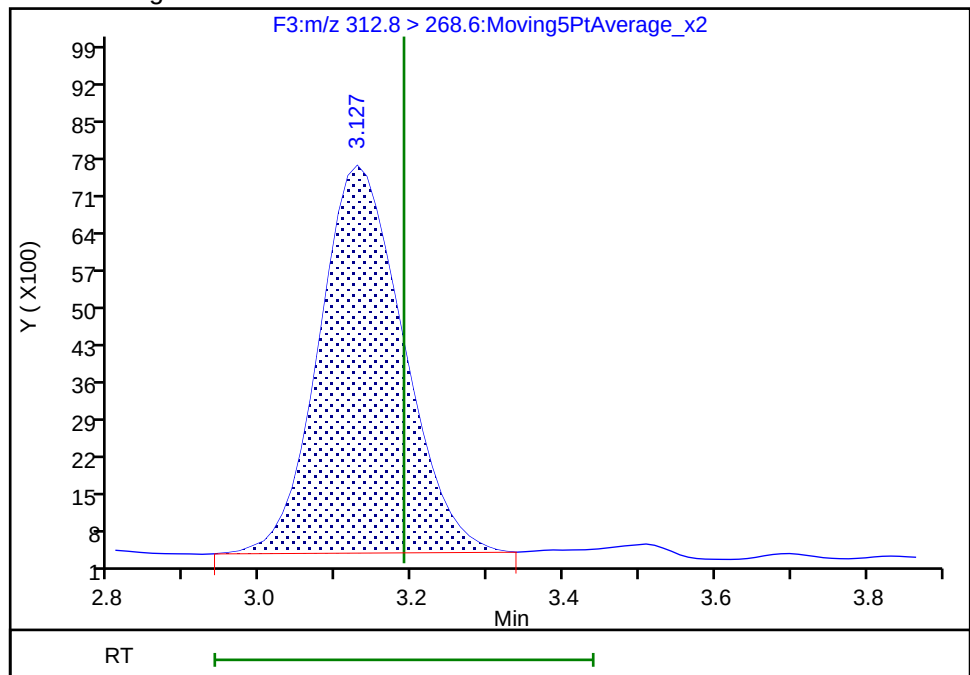
RT: 3.13  
Area: 60102  
Amount: 25.660043  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.13  
Area: 56482  
Amount: 24.388289  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:59:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

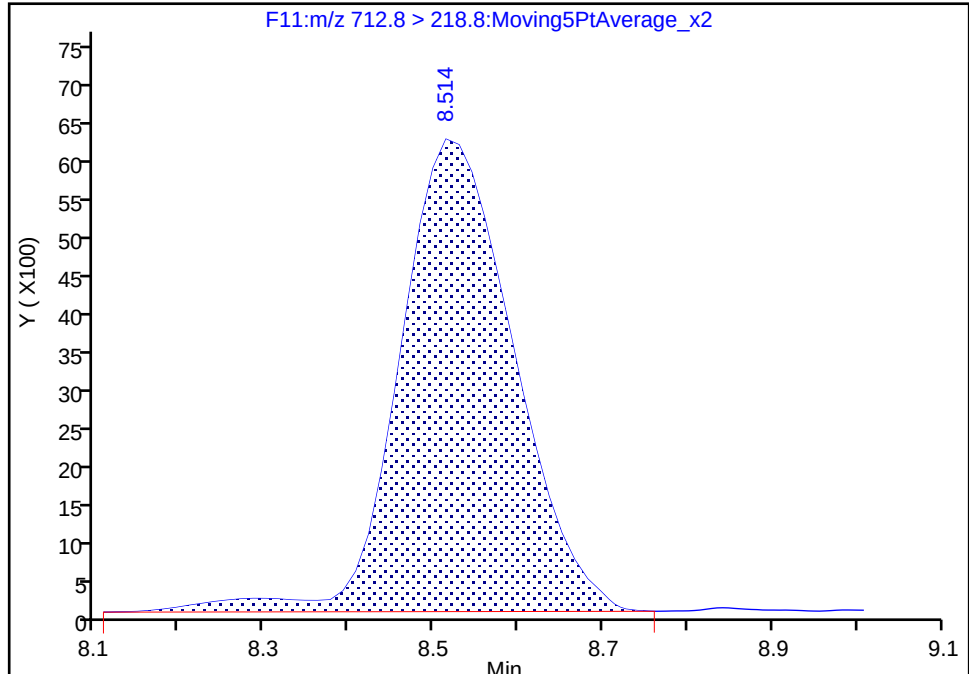
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A31.d |                |             |
| Injection Date: | 13-Oct-2018 00:05:53                                                | Instrument ID: | LC410       |
| Lims ID:        | 460-165718-A-3-C MSD                                                |                |             |
| Client ID:      | MW-54                                                               |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector:      | F11:MRM     |
|                 |                                                                     | Worklist Smp#: | 31          |

**39 Perfluorotetradecanoic acid, CAS: 376-06-7**

Signal: 3

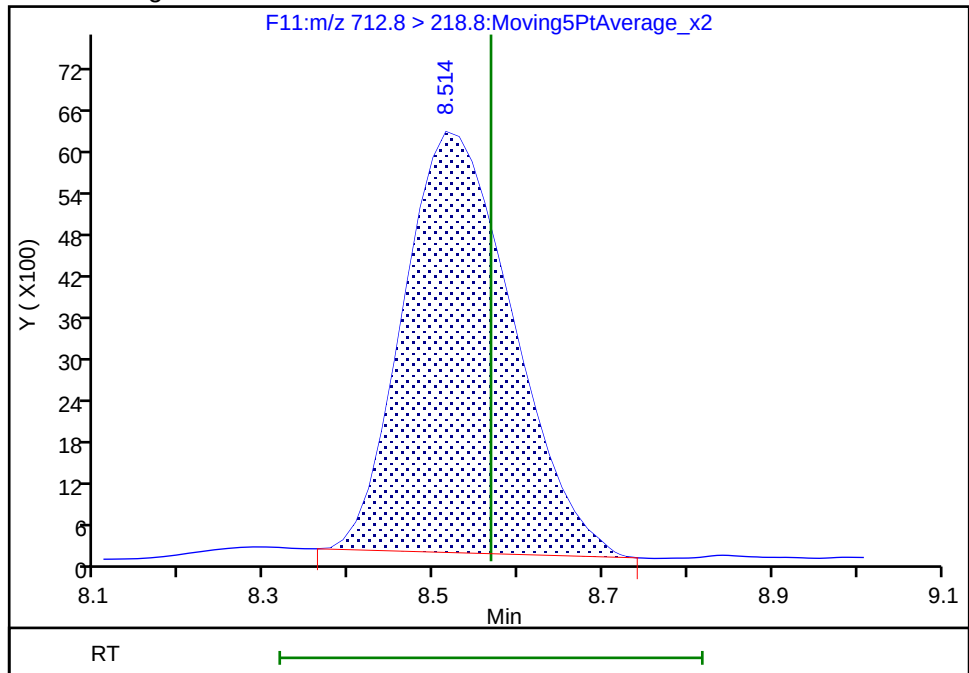
RT: 8.51  
Area: 57696  
Amount: 19.264972  
Amount Units: ng/ml

## Processing Integration Results



RT: 8.51  
Area: 54417  
Amount: 19.264972  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:59:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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## TestAmerica Burlington

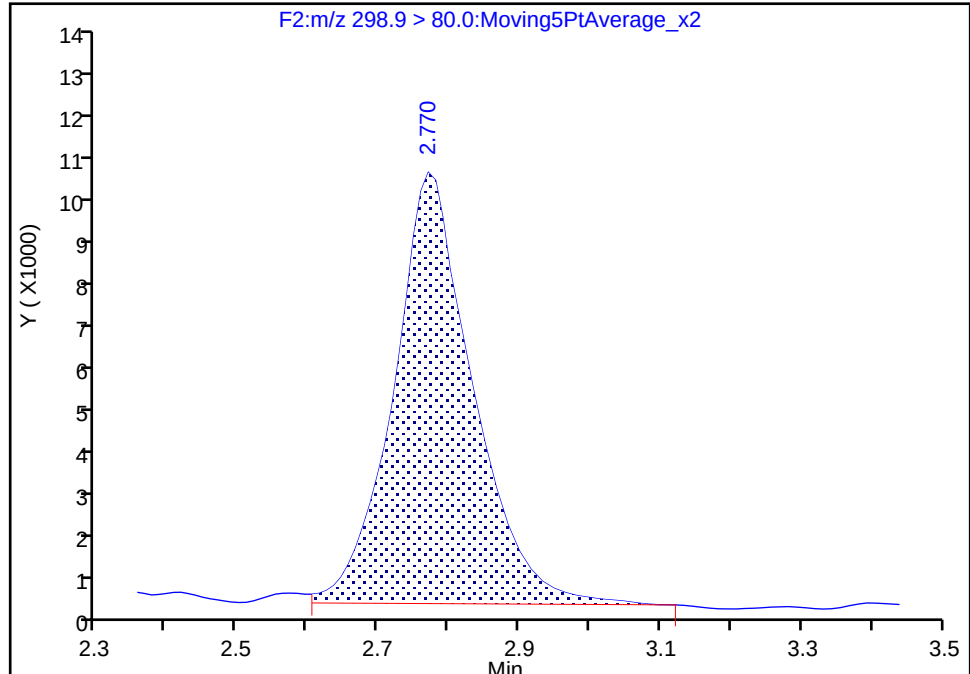
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A31.d |                |             |
| Injection Date: | 13-Oct-2018 00:05:53                                                | Instrument ID: | LC410       |
| Lims ID:        | 460-165718-A-3-C MSD                                                |                |             |
| Client ID:      | MW-54                                                               |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector:      | F2:MRM      |
|                 |                                                                     | Worklist Smp#: | 31          |

## 5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

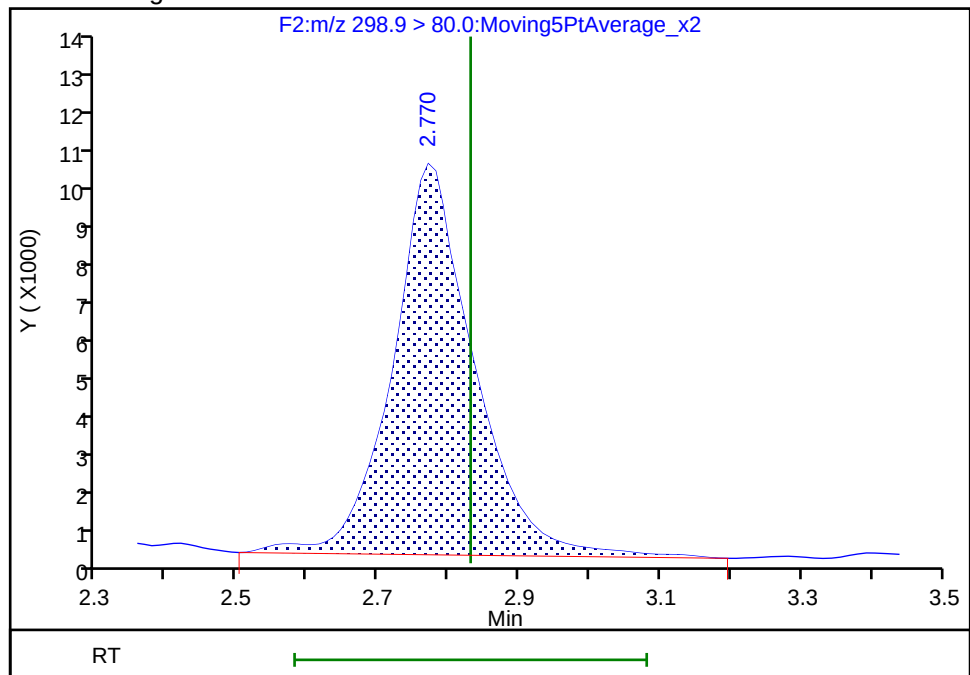
RT: 2.77  
Area: 79102  
Amount: 26.033550  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.77  
Area: 81605  
Amount: 26.857322  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:58:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

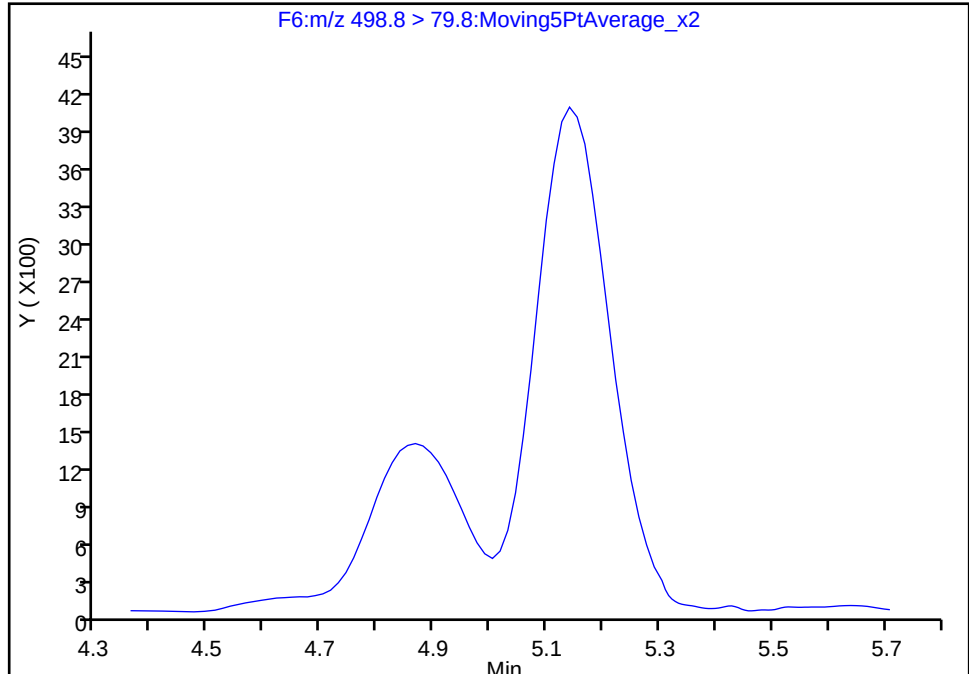
Data File: \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A31.d  
Injection Date: 13-Oct-2018 00:05:53 Instrument ID: LC410  
Lims ID: 460-165718-A-3-C MSD  
Client ID: MW-54  
Operator ID: BC ALS Bottle#: 0 Worklist Smp#: 31  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFCISO\_12MRM Limit Group: LC\_PFC\_ICAL  
Column: Detector F6:MRM

**21 Perfluorooctanesulfonic acid, CAS: 1763-23-1**

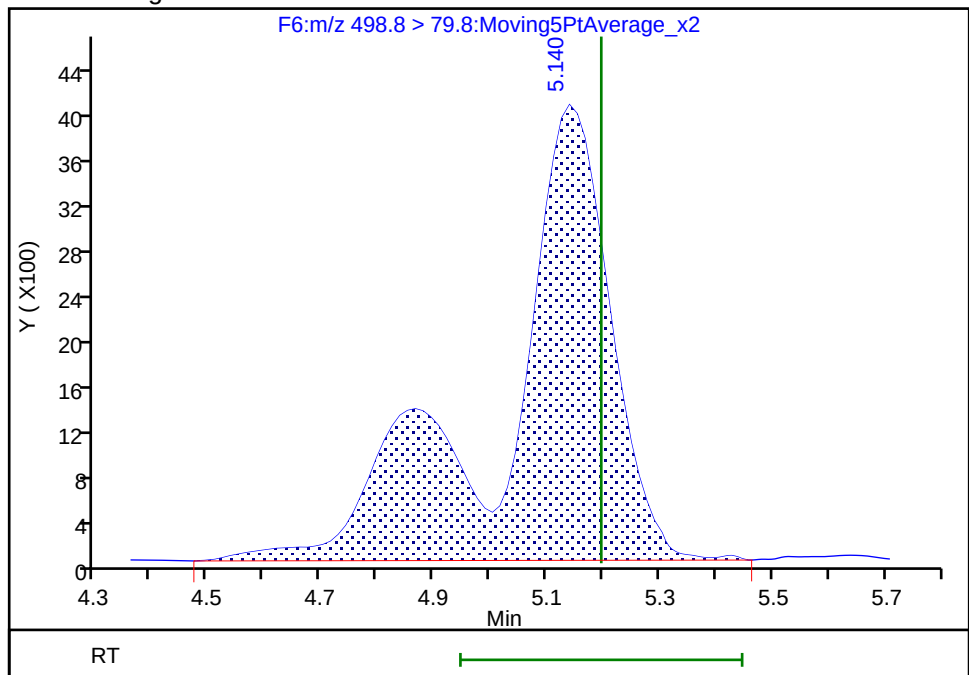
Signal: 1

Not Detected  
Expected RT: 5.20

## Processing Integration Results



## Manual Integration Results



RT: 5.14  
Area: 52822  
Amount: 26.287316  
Amount Units: ng/ml

Reviewer: chirgwinb, 13-Oct-2018 10:58:36  
Audit Action: Manually Integrated

Audit Reason: Missed Peak  
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## TestAmerica Burlington

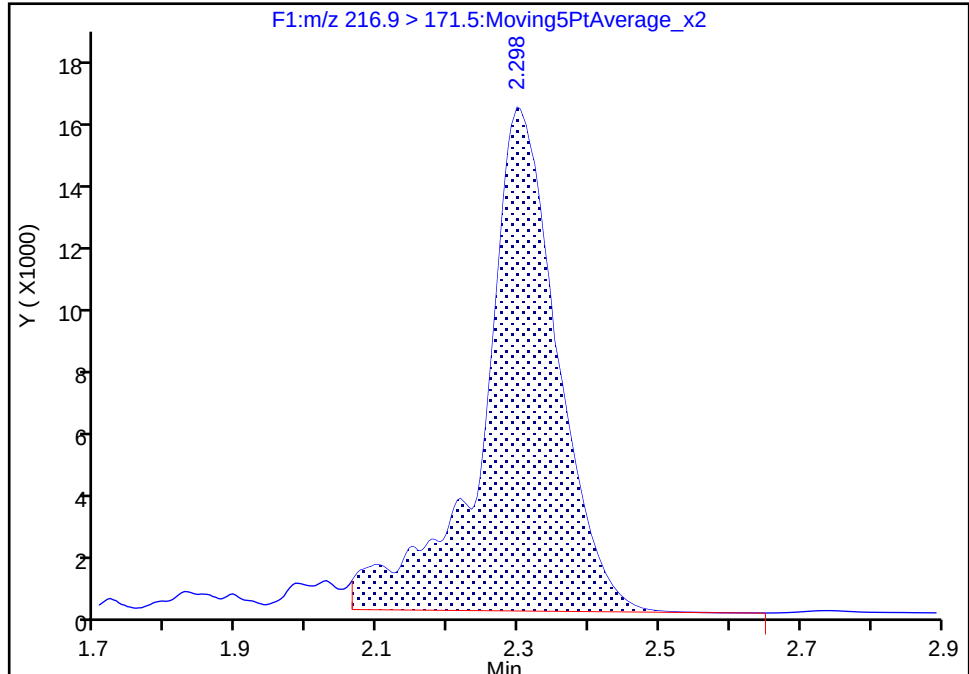
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A31.d |                |             |
| Injection Date: | 13-Oct-2018 00:05:53                                                | Instrument ID: | LC410       |
| Lims ID:        | 460-165718-A-3-C MSD                                                |                |             |
| Client ID:      | MW-54                                                               |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector:      | F1:MRM      |
|                 |                                                                     | Worklist Smp#: | 31          |

**D 1 13C4 PFBA, CAS: STL00992**

Signal: 1

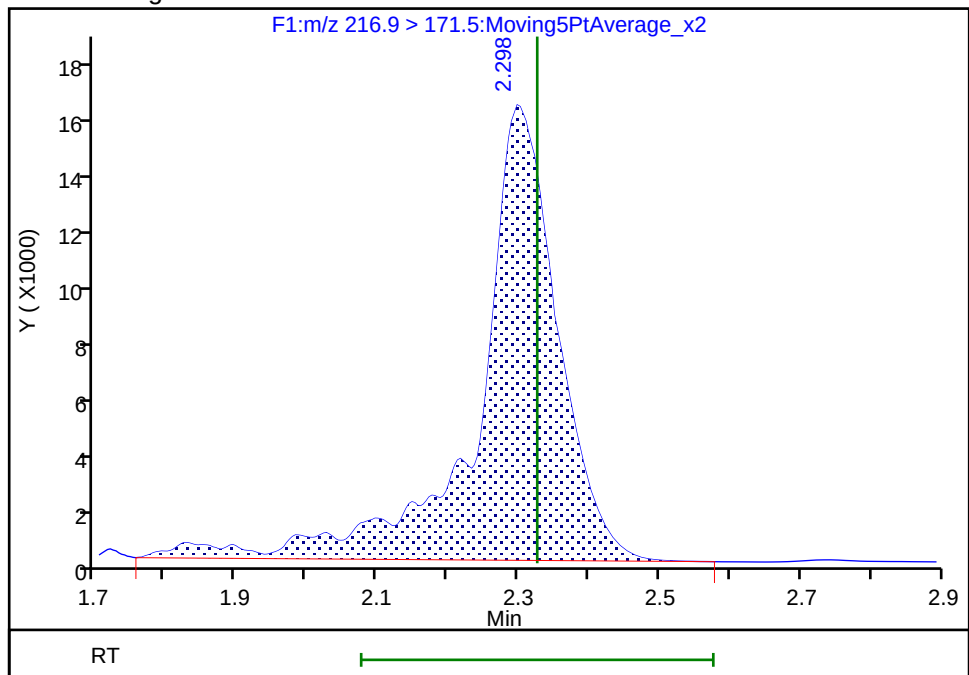
RT: 2.30  
Area: 122049  
Amount: 16.591654  
Amount Units: ng/ml

## Processing Integration Results



RT: 2.30  
Area: 130661  
Amount: 17.762392  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:58:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## TestAmerica Burlington

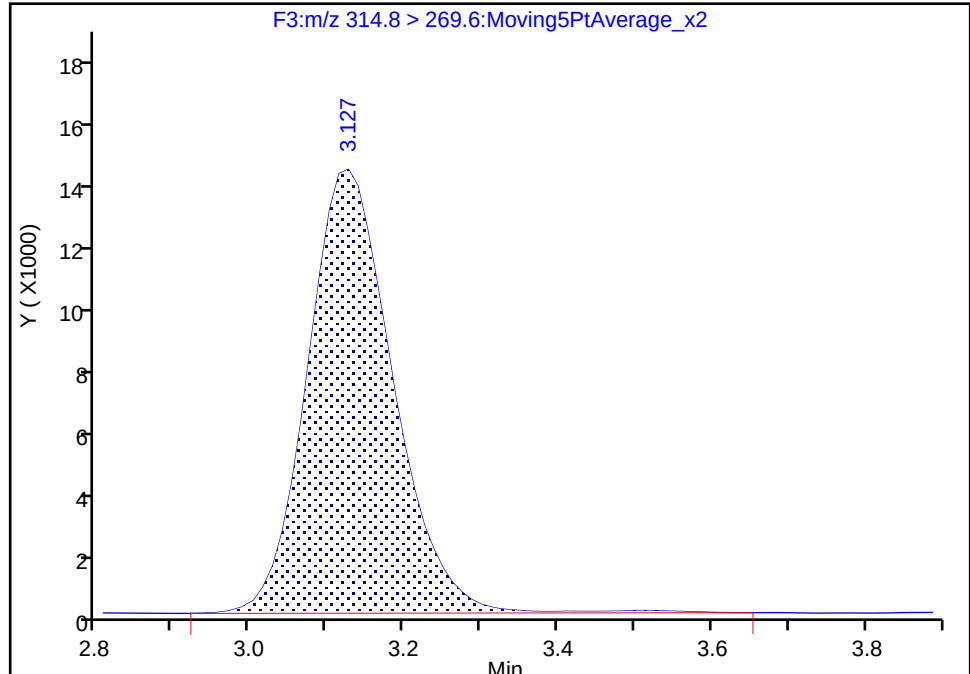
|                 |                                                                     |                |             |
|-----------------|---------------------------------------------------------------------|----------------|-------------|
| Data File:      | \\ChromNA\Burlington\ChromData\LC410\20181012-32613.b\PF101218A31.d |                |             |
| Injection Date: | 13-Oct-2018 00:05:53                                                | Instrument ID: | LC410       |
| Lims ID:        | 460-165718-A-3-C MSD                                                |                |             |
| Client ID:      | MW-54                                                               |                |             |
| Operator ID:    | BC                                                                  | ALS Bottle#:   | 0           |
| Injection Vol:  | 20.0 ul                                                             | Dil. Factor:   | 1.0000      |
| Method:         | PFCISO_12MRM                                                        | Limit Group:   | LC_PFC_ICAL |
| Column:         |                                                                     | Detector:      | F3:MRM      |
|                 |                                                                     | Worklist Smp#: | 31          |

**D 7 13C2 PFHxA, CAS: STL00993**

Signal: 1

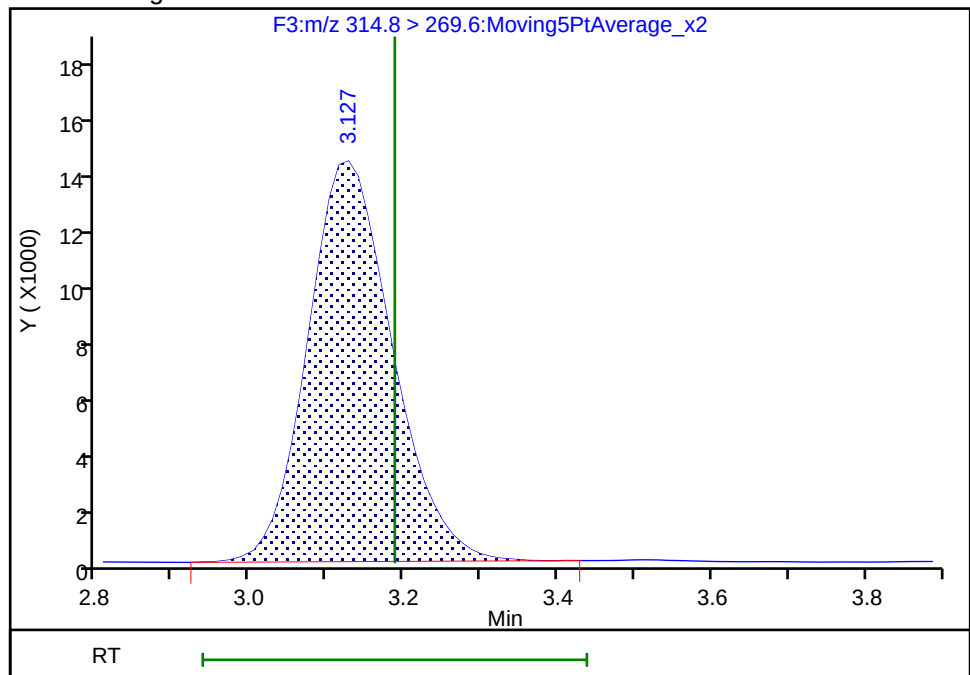
RT: 3.13  
Area: 110194  
Amount: 20.501168  
Amount Units: ng/ml

## Processing Integration Results



RT: 3.13  
Area: 108957  
Amount: 20.271029  
Amount Units: ng/ml

## Manual Integration Results



Reviewer: chirgwinb, 13-Oct-2018 10:59:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 460-165769-1

SDG No.: \_\_\_\_\_

Instrument ID: LC410Start Date: 10/12/2018 16:02Analysis Batch Number: 135180End Date: 10/13/2018 12:52

| LAB SAMPLE ID        | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID   | COLUMN ID     |
|----------------------|------------------|------------------|--------------------|---------------|---------------|
| ZZZZZ                |                  | 10/12/2018 16:02 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/12/2018 16:25 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/12/2018 16:41 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/12/2018 16:57 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/12/2018 17:13 | 1                  |               | C-18 4.6 (mm) |
| IC 200-135180/6      |                  | 10/12/2018 17:29 | 1                  | PF101218A06.d | C-18 4.6 (mm) |
| IC 200-135180/7      |                  | 10/12/2018 17:45 | 1                  | PF101218A07.d | C-18 4.6 (mm) |
| IC 200-135180/8      |                  | 10/12/2018 18:00 | 1                  | PF101218A08.d | C-18 4.6 (mm) |
| IC 200-135180/9      |                  | 10/12/2018 18:16 | 1                  | PF101218A09.d | C-18 4.6 (mm) |
| ICIS 200-135180/10   |                  | 10/12/2018 18:32 | 1                  | PF101218A10.d | C-18 4.6 (mm) |
| IC 200-135180/11     |                  | 10/12/2018 18:48 | 1                  | PF101218A11.d | C-18 4.6 (mm) |
| IC 200-135180/12     |                  | 10/12/2018 19:04 | 1                  | PF101218A12.d | C-18 4.6 (mm) |
| IC 200-135180/13     |                  | 10/12/2018 19:20 | 1                  | PF101218A13.d | C-18 4.6 (mm) |
| IC 200-135180/14     |                  | 10/12/2018 19:35 | 1                  | PF101218A14.d | C-18 4.6 (mm) |
| ICB 200-135180/15    |                  | 10/12/2018 19:51 | 1                  | PF101218A15.d | C-18 4.6 (mm) |
| ICV 200-135180/16    |                  | 10/12/2018 20:07 | 1                  | PF101218A16.d | C-18 4.6 (mm) |
| MB 200-134904/1-A    |                  | 10/12/2018 20:23 | 1                  | PF101218A17.d | C-18 4.6 (mm) |
| LCS 200-134904/2-A   |                  | 10/12/2018 20:39 | 1                  | PF101218A18.d | C-18 4.6 (mm) |
| 460-165769-1         |                  | 10/12/2018 20:55 | 1                  | PF101218A19.d | C-18 4.6 (mm) |
| 460-165769-4         |                  | 10/12/2018 21:11 | 1                  | PF101218A20.d | C-18 4.6 (mm) |
| 460-165769-5         |                  | 10/12/2018 21:26 | 1                  | PF101218A21.d | C-18 4.6 (mm) |
| 460-165769-6         |                  | 10/12/2018 21:42 | 1                  | PF101218A22.d | C-18 4.6 (mm) |
| 460-165769-7         |                  | 10/12/2018 21:58 | 1                  | PF101218A23.d | C-18 4.6 (mm) |
| 460-165769-8         |                  | 10/12/2018 22:14 | 1                  | PF101218A24.d | C-18 4.6 (mm) |
| 460-165769-9         |                  | 10/12/2018 22:30 | 1                  | PF101218A25.d | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/12/2018 22:46 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/12/2018 23:02 | 1                  |               | C-18 4.6 (mm) |
| CCV 200-135180/28    |                  | 10/12/2018 23:18 | 1                  | PF101218A28.d | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/12/2018 23:34 | 1                  |               | C-18 4.6 (mm) |
| 460-165718-A-3-B MS  |                  | 10/12/2018 23:50 | 1                  | PF101218A30.d | C-18 4.6 (mm) |
| 460-165718-A-3-C MSD |                  | 10/13/2018 00:05 | 1                  | PF101218A31.d | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 00:21 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 00:37 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 00:53 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 01:09 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 01:25 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 01:41 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 01:57 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 02:13 | 1                  |               | C-18 4.6 (mm) |
| CCV 200-135180/40    |                  | 10/13/2018 02:29 | 1                  | PF101218A40.d | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 02:45 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 03:01 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 03:17 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 03:33 | 1                  |               | C-18 4.6 (mm) |
| ZZZZZ                |                  | 10/13/2018 03:49 | 1                  |               | C-18 4.6 (mm) |

## LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica BurlingtonJob No.: 460-165769-1

SDG No.: \_\_\_\_\_

Instrument ID: LC410Start Date: 10/12/2018 16:02Analysis Batch Number: 135180End Date: 10/13/2018 12:52

| LAB SAMPLE ID     | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID     |
|-------------------|------------------|------------------|--------------------|-------------|---------------|
| ZZZZZ             |                  | 10/13/2018 04:05 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 04:21 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 04:37 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 04:52 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 05:08 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 05:24 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 05:40 | 1                  |             | C-18 4.6 (mm) |
| CCV 200-135180/53 |                  | 10/13/2018 05:56 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 06:12 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 06:28 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 06:44 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 07:00 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 07:16 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 07:32 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 07:48 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 08:04 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 08:20 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 08:36 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 08:52 | 1                  |             | C-18 4.6 (mm) |
| CCV 200-135180/65 |                  | 10/13/2018 09:08 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 09:24 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 09:40 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 09:56 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 10:12 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 10:28 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 10:44 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 11:00 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 11:16 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 11:32 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 11:48 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 12:04 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 12:20 | 1                  |             | C-18 4.6 (mm) |
| ZZZZZ             |                  | 10/13/2018 12:36 | 1                  |             | C-18 4.6 (mm) |
| CCV 200-135180/79 |                  | 10/13/2018 12:52 | 1                  |             | C-18 4.6 (mm) |

## LCMS BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 134904 Batch Start Date: 10/05/18 12:20 Batch Analyst: Murray, John WBatch Method: 3535 Batch End Date: 10/05/18 12:35

| Lab Sample ID         | Client Sample ID     | Method Chain            | Basis | GrossWeight | TareWeight | InitialAmount | FinalAmount | LCMPFCIDA21<br>00004 | LCPFAS24 MS W<br>00001 |
|-----------------------|----------------------|-------------------------|-------|-------------|------------|---------------|-------------|----------------------|------------------------|
| MB 200-134904/1       |                      | 3535, 537<br>(modified) |       | 250 g       | 0 g        | 250 mL        | 0.5 mL      | 0.025 mL             |                        |
| LCS<br>200-134904/2   |                      | 3535, 537<br>(modified) |       | 250 g       | 0 g        | 250 mL        | 0.5 mL      | 0.025 mL             | 0.025 mL               |
| 460-165718-A-3<br>MS  |                      | 3535, 537<br>(modified) | T     | 332.48 g    | 26.78 g    | 305.7 mL      | 0.5 mL      | 0.025 mL             | 0.025 mL               |
| 460-165718-A-3<br>MSD |                      | 3535, 537<br>(modified) | T     | 333.12 g    | 26.75 g    | 306.4 mL      | 0.5 mL      | 0.025 mL             | 0.025 mL               |
| 460-165769-D-1        | FSMW-14A<br>09262018 | 3535, 537<br>(modified) | T     | 326.94 g    | 27.58 g    | 299.4 mL      | 0.5 mL      | 0.025 mL             |                        |
| 460-165769-E-4        | EB1 092618           | 3535, 537<br>(modified) | T     | 294.64 g    | 27.01 g    | 267.6 mL      | 0.5 mL      | 0.025 mL             |                        |
| 460-165769-C-5        | FB1 09262018         | 3535, 537<br>(modified) | T     | 294.44 g    | 28.28 g    | 266.2 mL      | 0.5 mL      | 0.025 mL             |                        |
| 460-165769-D-6        | FSMW-8A 09272018     | 3535, 537<br>(modified) | T     | 297.75 g    | 27.31 g    | 270.4 mL      | 0.5 mL      | 0.025 mL             |                        |
| 460-165769-D-7        | FSMW-1A 09272018     | 3535, 537<br>(modified) | T     | 333.06 g    | 28.10 g    | 305 mL        | 0.5 mL      | 0.025 mL             |                        |
| 460-165769-E-8        | EB2 09272018         | 3535, 537<br>(modified) | T     | 311.27 g    | 28.28 g    | 283 mL        | 0.5 mL      | 0.025 mL             |                        |
| 460-165769-D-9        | FB2 09272018         | 3535, 537<br>(modified) | T     | 301.67 g    | 28.36 g    | 273.3 mL      | 0.5 mL      | 0.025 mL             |                        |

| Lab Sample ID         | Client Sample ID     | Method Chain            | Basis | PFAS21 IS Stk<br>00004 |  |  |  |  |  |
|-----------------------|----------------------|-------------------------|-------|------------------------|--|--|--|--|--|
| MB 200-134904/1       |                      | 3535, 537<br>(modified) |       | 0.005 mL               |  |  |  |  |  |
| LCS<br>200-134904/2   |                      | 3535, 537<br>(modified) |       | 0.005 mL               |  |  |  |  |  |
| 460-165718-A-3<br>MS  |                      | 3535, 537<br>(modified) | T     | 0.005 mL               |  |  |  |  |  |
| 460-165718-A-3<br>MSD |                      | 3535, 537<br>(modified) | T     | 0.005 mL               |  |  |  |  |  |
| 460-165769-D-1        | FSMW-14A<br>09262018 | 3535, 537<br>(modified) | T     | 0.005 mL               |  |  |  |  |  |
| 460-165769-E-4        | EB1 092618           | 3535, 537<br>(modified) | T     | 0.005 mL               |  |  |  |  |  |
| 460-165769-C-5        | FB1 09262018         | 3535, 537<br>(modified) | T     | 0.005 mL               |  |  |  |  |  |
| 460-165769-D-6        | FSMW-8A 09272018     | 3535, 537<br>(modified) | T     | 0.005 mL               |  |  |  |  |  |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

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## LCMS BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 460-165769-1

SDG No.: \_\_\_\_\_

Batch Number: 134904 Batch Start Date: 10/05/18 12:20 Batch Analyst: Murray, John WBatch Method: 3535 Batch End Date: 10/05/18 12:35

| Lab Sample ID  | Client Sample ID | Method Chain            | Basis | PFAS21 IS Stk<br>00004 |  |  |  |  |  |
|----------------|------------------|-------------------------|-------|------------------------|--|--|--|--|--|
| 460-165769-D-7 | FSMW-1A 09272018 | 3535, 537<br>(modified) | T     | 0.005 mL               |  |  |  |  |  |
| 460-165769-E-8 | EB2 09272018     | 3535, 537<br>(modified) | T     | 0.005 mL               |  |  |  |  |  |
| 460-165769-D-9 | FB2 09272018     | 3535, 537<br>(modified) | T     | 0.005 mL               |  |  |  |  |  |

| Batch Notes        |                                       |
|--------------------|---------------------------------------|
| Balance ID         | M02926                                |
| First End time     | 1235                                  |
| Manifold ID        | IDA 1, IDA 2                          |
| Solvent Lot #      | 1192515                               |
| Solvent Name       | 0.3% NH4OH in MeOH                    |
| SPE Cartridge Type | Waters Oasis WAX 500mg Lot 004038179A |
| First Start time   | 1220                                  |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

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# Subcontract Data

# Shipping and Receiving Documents





## CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. 165769

Page 1 of 2

Project Name: FROST ST

PO No.

Project No. 0601823286 Phase G3165A

Site Location: WESTBURY, NY

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

CTO No.

RC Project Manager: ALEX STARIK

Sampler/Site Phone# MIKE ZOBEL / 631-561-1340

Lab Name: TEST AMERICA

Turnaround Time(specify):

| Lab ID | Sample ID<br>(sys_samp_code) | Location ID<br>(sys_loc_code) | Date<br>(mm/dd/yy) | Time<br>(Military)<br>(hhmm) | Matrix<br>Code<br>(1) | Sample<br>Type<br>(2) | Field<br>Filtered<br>(Y/N) | Total No. of Containers | VOC | PFC | 1,4-dioxane | SUB<br>Work |  |  |  | Extra Volume for MS/MSD | HOLD |
|--------|------------------------------|-------------------------------|--------------------|------------------------------|-----------------------|-----------------------|----------------------------|-------------------------|-----|-----|-------------|-------------|--|--|--|-------------------------|------|
| 1      | FSMW-14A 09262018            | FSMW-14A                      | 9/26/18            | 1105                         | WG                    | N                     | N                          | 7                       | 3   | 2   | 2           |             |  |  |  |                         |      |
| 2      | FSMW-14B 09262018            | FSMW-14B                      | 9/26/18            | 1325                         | WG                    | N                     | N                          | 3                       | 3   |     |             |             |  |  |  |                         |      |
| 3      | FSMW-13A 09262018            | FSMW-13A                      | 9/26/18            | 1500                         | WG                    | N                     | N                          | 3                       | 3   |     |             |             |  |  |  |                         |      |
| 4      | EB1 09262018                 | -                             | 9/26/18            | 1120                         | WQ                    | EB                    | N                          | 7                       | 3   | 2   | 2           |             |  |  |  |                         |      |
| 5      | FB1 09262018                 | -                             | 9/26/18            | 1300                         | WQ                    | FB                    | N                          | 6                       | 2   | 2   | 2           |             |  |  |  |                         |      |
| 6      | FSMW-8A 09272018             | FSMW-8A                       | 9/27/18            | 1100                         | WG                    | N                     | N                          | 7                       | 3   | 2   | 2           |             |  |  |  |                         |      |
| 7      | FSMW-1A 09272018             | FSMW-1A                       | 9/27/18            | 1420                         | WG                    | N                     | N                          | 7                       | 3   | 2   | 2           |             |  |  |  |                         |      |
| 8      | EB2 09272018                 | -                             | 9/27/18            | 1130                         | WQ                    | EB                    | N                          | 7                       | 3   | 2   | 2           |             |  |  |  |                         |      |
| 9      | FB2 09272018                 | -                             | 9/27/18            | 1300                         | WQ                    | FB                    | N                          | 6                       | 2   | 2   | 2           |             |  |  |  |                         |      |
| 10     | FSMW-4A 09282018             | FSMW-4A                       | 9/28/18            | 1155                         | WG                    | N                     | N                          | 3                       | 3   |     |             |             |  |  |  |                         |      |
| 11     | FSMW-2B 09282018             | FSMW-2B                       | 9/28/18            | 1350                         | WG                    | N                     | N                          | 3                       | 3   |     |             |             |  |  |  |                         |      |
| 12     | EB3 09282018                 | -                             | 9/28/18            | 1215                         | WQ                    | EB                    | N                          | 3                       | 3   |     |             |             |  |  |  |                         |      |

Field Comments:

Lab Comments:

Sample Shipment and Delivery Details

Number of coolers in shipment:

Relinquished by (signature)

Date

Time

Received by (signature)

Date

Time

Samples Iced?(check) Yes No

Method of Shipment:

Airbill No:

Date Shipped:

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

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

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

Rev 5/12

2.8 / 2-8 32/28 12/28

11/19/2018

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165769

| Ammonia | COD    | Nitrate<br>Nitrite | Metals * | Hardness | Pest     | EPH or<br>QAM | Phenols | Sulfide | TKN    | TOC    | Total<br>Cyanide | Total Phos | Other | Other |
|---------|--------|--------------------|----------|----------|----------|---------------|---------|---------|--------|--------|------------------|------------|-------|-------|
| (pH<2)  | (pH<2) | (pH<2)             | (pH<2)   | (pH<2)   | (pH 5-9) | (pH<2)        | (pH<2)  | (pH>9)  | (pH<2) | (pH<2) | (pH>12)          | (pH<2)     |       |       |

[illegible]

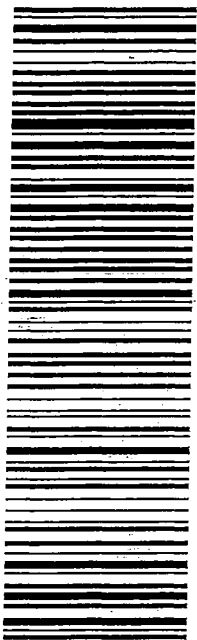
Date: 9/28/18



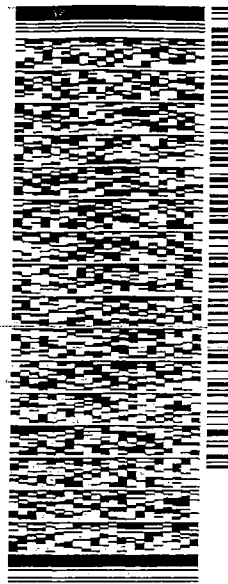
460-1135769 Chain of Custody

## THE LEADER IN ENVIRONMENTAL TESTING

Ver: 09/20/2016



1 of 3  
TUE - 02 OCT 10:30A  
PRIORITY OVERNIGHT  
05403  
VT-US BTVA



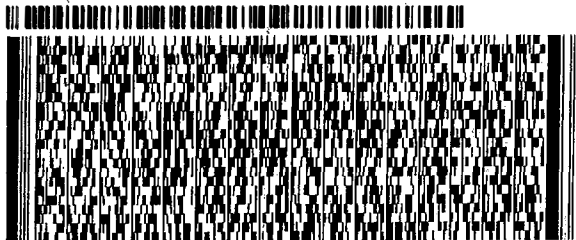
ORIGIN ID:LDJA (732) 549-3900  
KENNETH RIVERA/SAMPLE RECEIVING  
TESTAMERICA INC.  
777 NEW DURHAM ROAD  
EDISON, NJ 08817  
UNITED STATES US  
SHIP DATE: 01OCT18  
ACTWGT: 74.20 LB  
CAD: 0358159/CAFE3211  
BILL RECIPIENT  
TO SAMPLE CUSTODY  
TEST AMERICA BURLINGTON  
30 COMMUNITY DRIVE  
SUITE 11  
SOUTH BURLINGTON VT 05403  
(802) 655-1203 REF: 8460-103881  
PO: YES

ORIGIN ID:LDJA (732) 549-3900  
KENNETH RIVERA/SAMPLE RECEIVING  
TESTAMERICA INC.  
777 NEW DURHAM ROAD  
EDISON, NJ 08817  
UNITED STATES US

SHIP DATE: 01OCT18  
ACTWGT: 43.35 LB  
CAD: 0358159/CAFE3211

BILL RECIPIENT

TO SAMPLE CUSTODY  
TEST AMERICA BURLINGTON  
30 COMMUNITY DRIVE  
SUITE 11  
SOUTH BURLINGTON VT 05403  
(802) 655-1203 REF: 8460-103881  
PO: YES



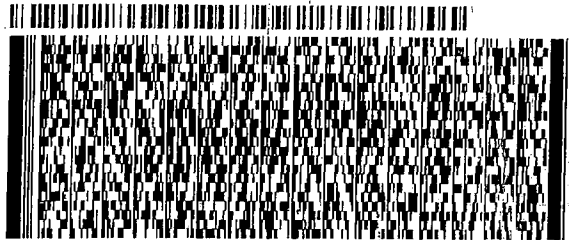
2 of 3  
MPS# 4137 2536 3430  
0263  
Mstr# 4137 2536 3420  
NC BTVA

TUE - 02 OCT 10:30A  
PRIORITY OVERNIGHT  
05403  
VT-US BTVA

ORIGIN ID:LDJA (732) 549-3900  
KENNETH RIVERA/SAMPLE RECEIVING  
TESTAMERICA INC.  
777 NEW DURHAM ROAD  
EDISON, NJ 08817  
UNITED STATES US

BILL RECIPIENT

TO SAMPLE CUSTODY  
TEST AMERICA BURLINGTON  
30 COMMUNITY DRIVE  
SUITE 11  
SOUTH BURLINGTON VT 05403  
(802) 655-1203 REF: 8460-103881  
PO: YES



3 of 3  
MPS# 4137 2536 3441  
0263  
Mstr# 4137 2536 3420  
NC BTVA

TUE - 02 OCT 10:30A  
PRIORITY OVERNIGHT  
05403  
VT-US BTVA



## Login Sample Receipt Checklist

Client: EnSafe, Inc.

Job Number: 460-165769-1

Login Number: 165769

List Source: TestAmerica Edison

List Number: 1

Creator: Jara, Kelly D

| Question                                                                                 | Answer | Comment |
|------------------------------------------------------------------------------------------|--------|---------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |         |
| The cooler's custody seal, if present, is intact.                                        | True   |         |
| Sample custody seals, if present, are intact.                                            | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |         |
| Samples were received on ice.                                                            | True   |         |
| Cooler Temperature is acceptable.                                                        | True   |         |
| Cooler Temperature is recorded.                                                          | True   |         |
| COC is present.                                                                          | True   |         |
| COC is filled out in ink and legible.                                                    | True   |         |
| COC is filled out with all pertinent information.                                        | True   |         |
| Is the Field Sampler's name present on COC?                                              | True   |         |
| There are no discrepancies between the containers received and the COC.                  | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |         |
| Sample containers have legible labels.                                                   | True   |         |
| Containers are not broken or leaking.                                                    | True   |         |
| Sample collection date/times are provided.                                               | True   |         |
| Appropriate sample containers are used.                                                  | True   |         |
| Sample bottles are completely filled.                                                    | True   |         |
| Sample Preservation Verified.                                                            | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | False  |         |
| Multiphasic samples are not present.                                                     | True   |         |
| Samples do not require splitting or compositing.                                         | True   |         |
| Residual Chlorine Checked.                                                               | N/A    |         |

## Login Sample Receipt Checklist

Client: EnSafe, Inc.

Job Number: 460-165769-1

**Login Number: 165769**  
**List Number: 2**  
**Creator: Johnson, Eleanor E**

**List Source: TestAmerica Burlington**  
**List Creation: 10/02/18 12:45 PM**

| Question                                                                                 | Answer | Comment                                                 |
|------------------------------------------------------------------------------------------|--------|---------------------------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    | Lab does not accept radioactive samples.                |
| The cooler's custody seal, if present, is intact.                                        | N/A    | Not present                                             |
| Sample custody seals, if present, are intact.                                            | N/A    | Not Present                                             |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                                                         |
| Samples were received on ice.                                                            | True   |                                                         |
| Cooler Temperature is acceptable.                                                        | True   |                                                         |
| Cooler Temperature is recorded.                                                          | True   | 0.8°C, 1.6°C, 1.1°C                                     |
| COC is present.                                                                          | True   |                                                         |
| COC is filled out in ink and legible.                                                    | True   |                                                         |
| COC is filled out with all pertinent information.                                        | True   |                                                         |
| Is the Field Sampler's name present on COC?                                              | N/A    | Received project as a subcontract.                      |
| There are no discrepancies between the containers received and the COC.                  | True   |                                                         |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |                                                         |
| Sample containers have legible labels.                                                   | True   |                                                         |
| Containers are not broken or leaking.                                                    | True   |                                                         |
| Sample collection date/times are provided.                                               | True   |                                                         |
| Appropriate sample containers are used.                                                  | True   |                                                         |
| Sample bottles are completely filled.                                                    | N/A    |                                                         |
| Sample Preservation Verified.                                                            | True   |                                                         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                                                         |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |                                                         |
| Multiphasic samples are not present.                                                     | True   |                                                         |
| Samples do not require splitting or compositing.                                         | True   |                                                         |
| Residual Chlorine Checked.                                                               | N/A    | No analysis requiring residual chlorine check assigned. |