

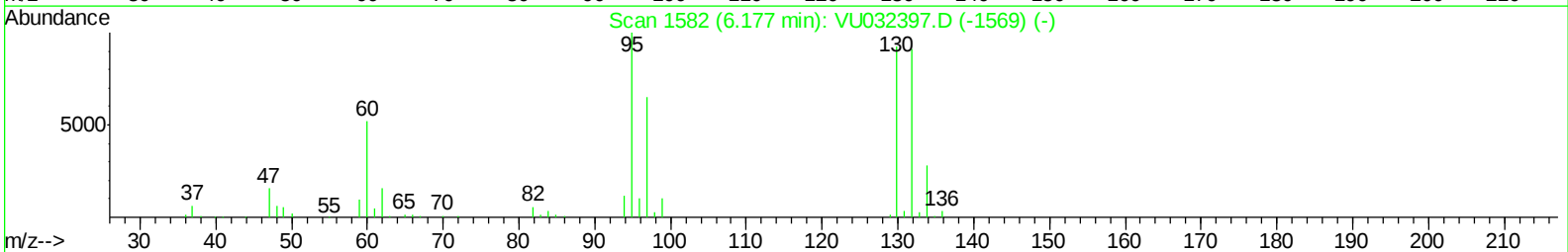
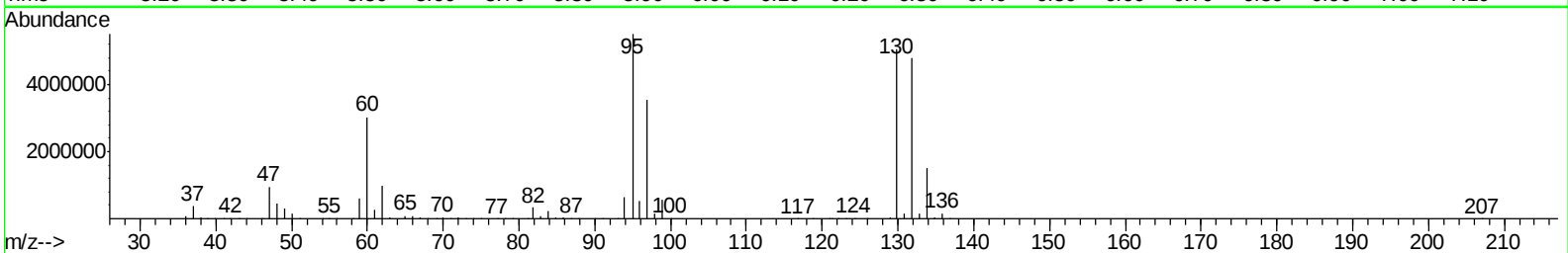
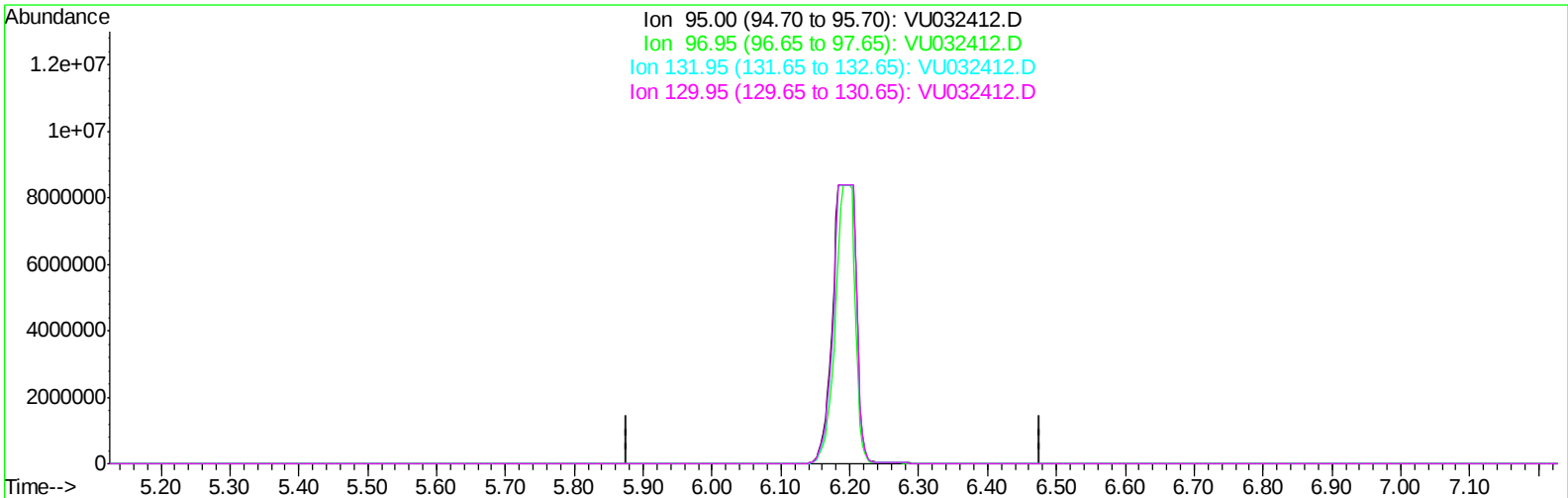
Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU060319\  
Data File : VU032412.D  
Acq On : 03 Jun 2019 23:04  
Operator : JC/SP  
Sample : K3081-15  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GALE3

Manual Integrations  
APPROVED

MMDadoda  
6/18/2019 1:12:29 AM

Quant Time: Jun 04 09:40:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060319WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jun 04 08:55:15 2019  
Response via : Initial Calibration



TIC: VU032412.D

(34) Trichloroethene (T)

6.177min (-6.177) 0.00ug/L

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 95.00  | 100   | 0.00  |
| 96.95  | 65.40 | 0.00# |
| 131.95 | 90.10 | 0.00# |
| 129.95 | 94.30 | 0.00# |

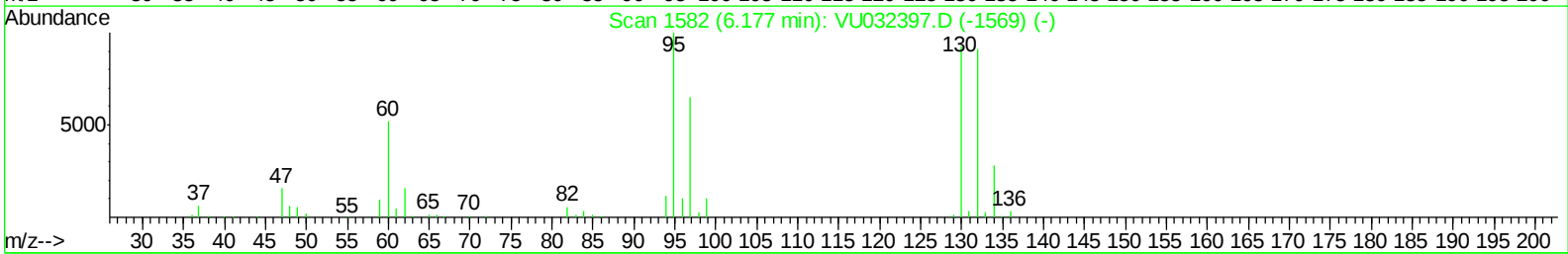
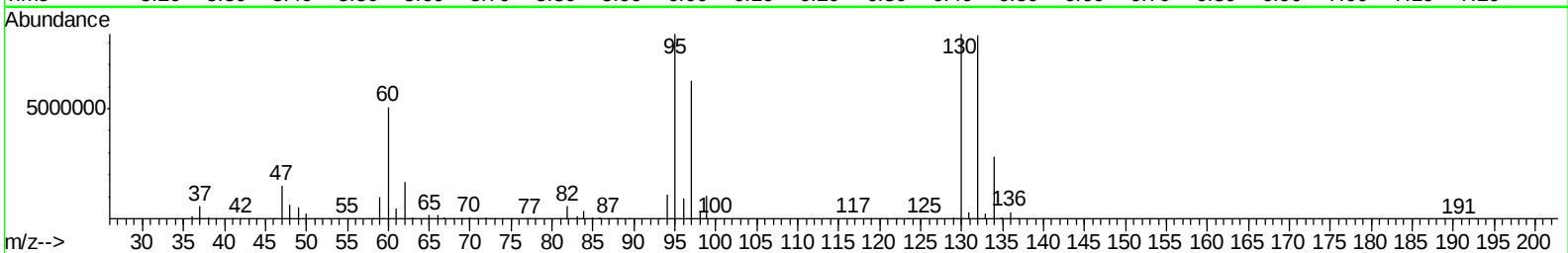
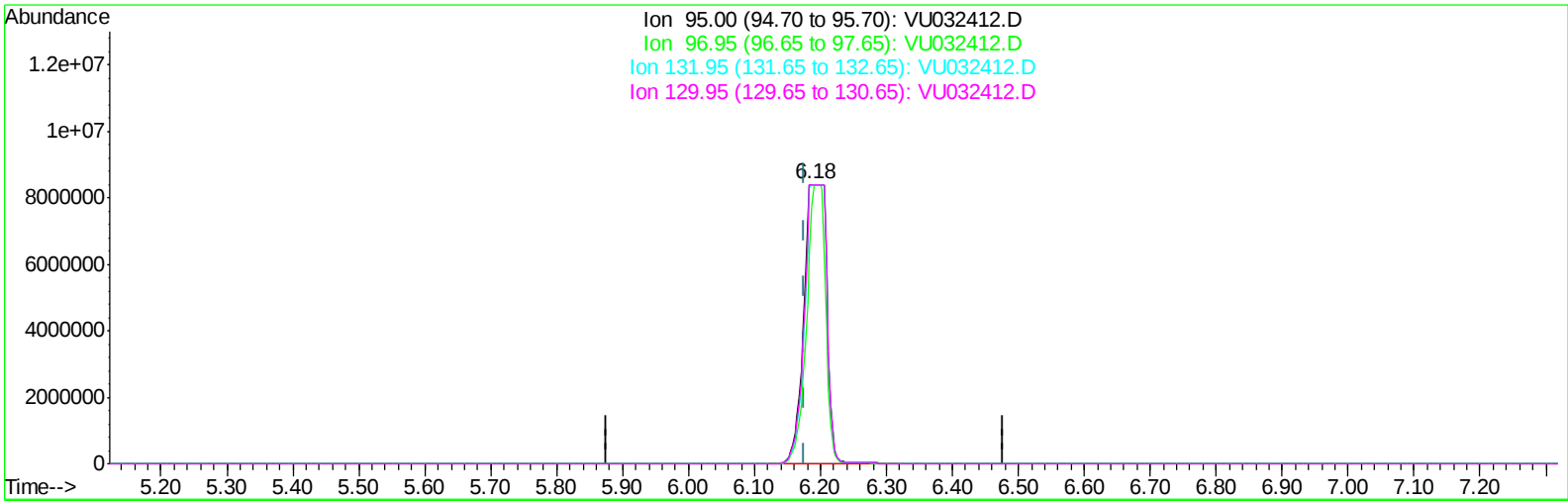
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TIC: VU032412.D

(34) Trichloroethene (T)

6.183min (+0.006) 1356.20ug/L m

response 20418777

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 95.00  | 100   | 100    |
| 96.95  | 65.40 | 74.66  |
| 131.95 | 90.10 | 99.25  |
| 129.95 | 94.30 | 100.00 |

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Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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Manual Integrations  
 APPROVED

MMDadoda  
 6/18/2019 1:12:29 AM

Quant Time: Jun 04 09:42:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 04 08:55:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 99229    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 95069    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 42431    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 36893    | 3.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 79.20%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 36018m   | 3.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 72.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 62420    | 2.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 57.40%# |
| 20) 2-Butanone-d5              | 4.18   | 46    | 100912   | 46.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.12%  |
| 24) Chloroform-d               | 4.64   | 84    | 65562    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.30   | 65    | 39728    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.60% |
| 32) Benzene-d6                 | 5.33   | 84    | 128706   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 42799    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.20%  |
| 41) Toluene-d8                 | 7.56   | 98    | 118737   | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.80%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 17761    | 4.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.00%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 89940    | 49.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 98.86%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 35859    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 40419    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.20%  |

## Target Compounds

|                                |      |     |           |               | Ovalue |
|--------------------------------|------|-----|-----------|---------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 2180      | 0.130 ug/L    | 89     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 6230      | 0.426 ug/L    | 97     |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 4886      | 0.334 ug/L    | 90     |
| 34) Trichloroethene            | 6.18 | 95  | 20418777m | 1356.195 ug/L |        |
| 47) Tetrachloroethene          | 8.22 | 164 | 12017     | 1.142 ug/L    | 96     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

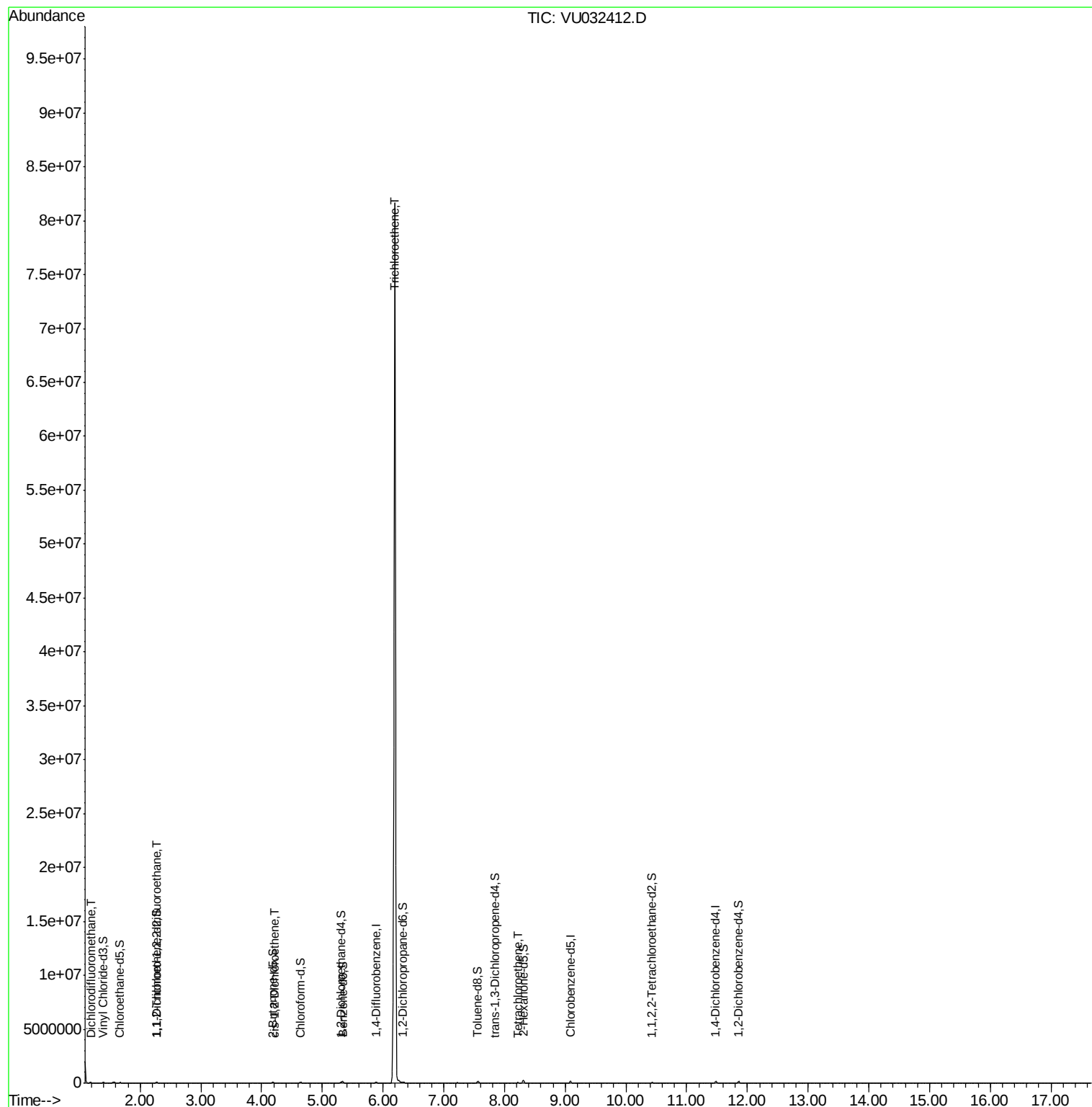
Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU060319\  
Data File : VU032412.D  
Acq On : 03 Jun 2019 23:04  
Operator : JC/SP  
Sample : K3081-15  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GALE3

Manual Integrations  
APPROVED

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6/18/2019 1:12:29 AM

Quant Time: Jun 04 09:42:50 2019  
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Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jun 04 08:55:15 2019  
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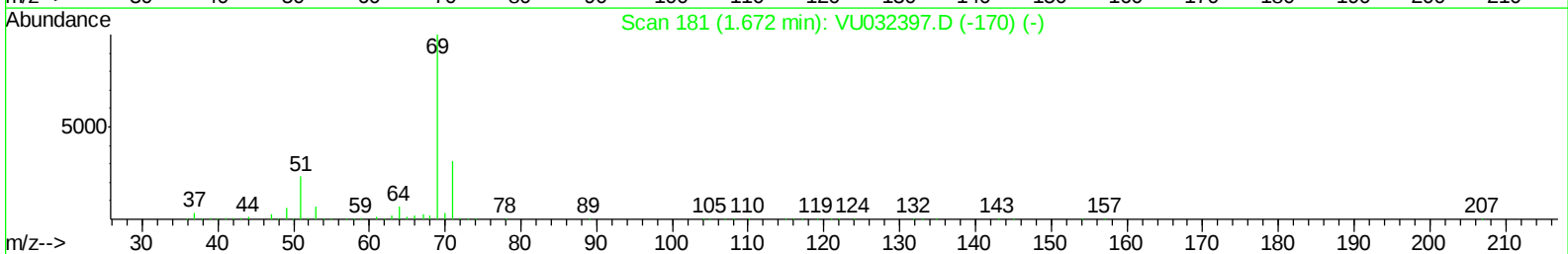
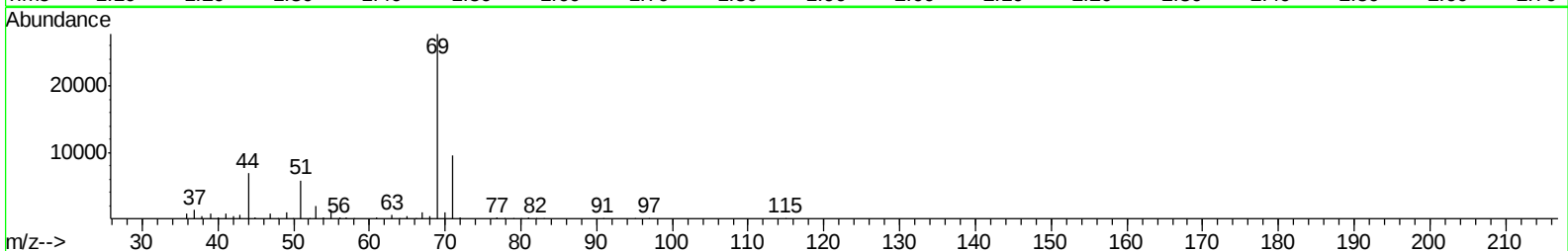
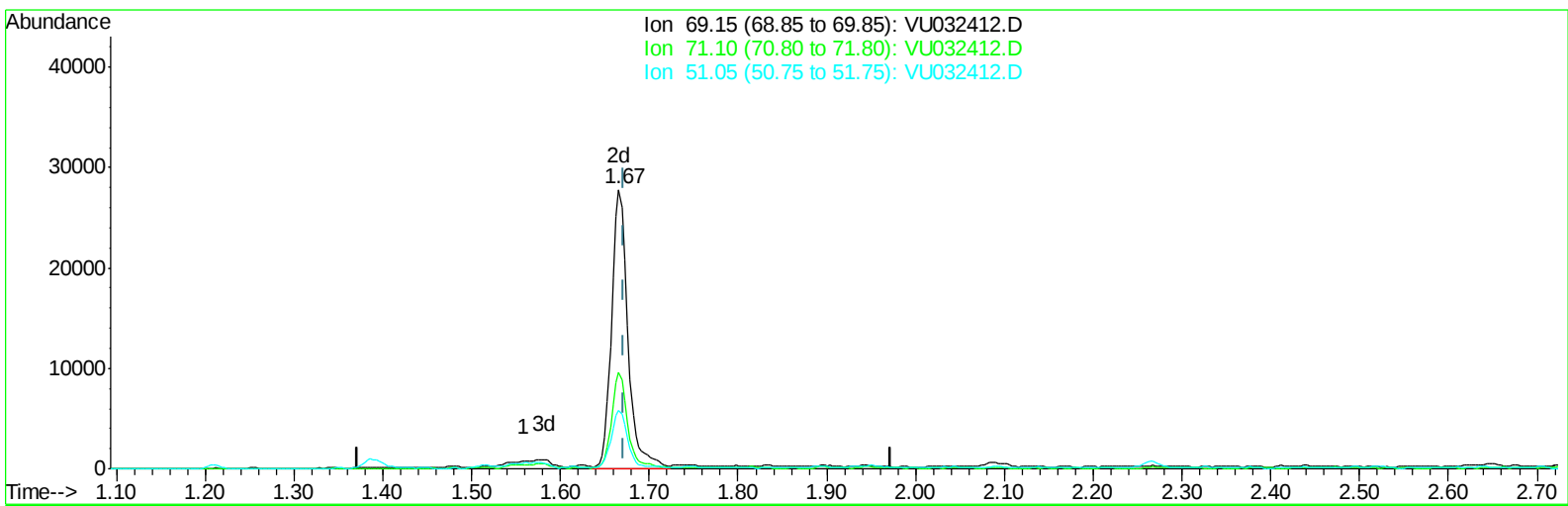
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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
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Manual Integrations  
APPROVED

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jun 04 08:55:15 2019  
Response via : Initial Calibration



TIC: VU032412.D

(7) Chloroethane-d5 (S)

1.666min (-0.006) 3.61ug/L m

response 36018

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 69.15 | 100   | 100   |
| 71.10 | 33.20 | 1.30# |
| 51.05 | 36.90 | 1.50# |
| 0.00  | 0.00  | 0.00  |

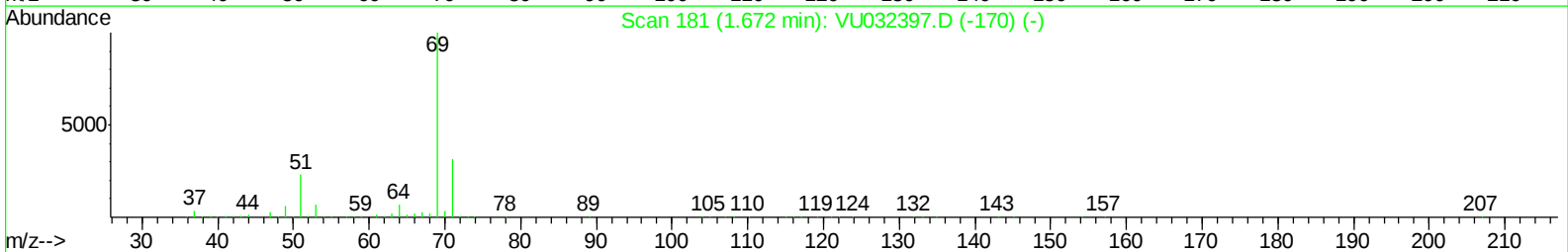
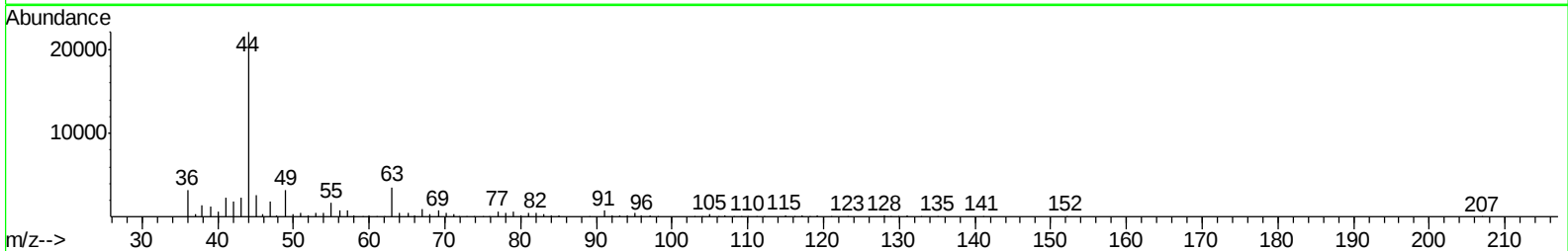
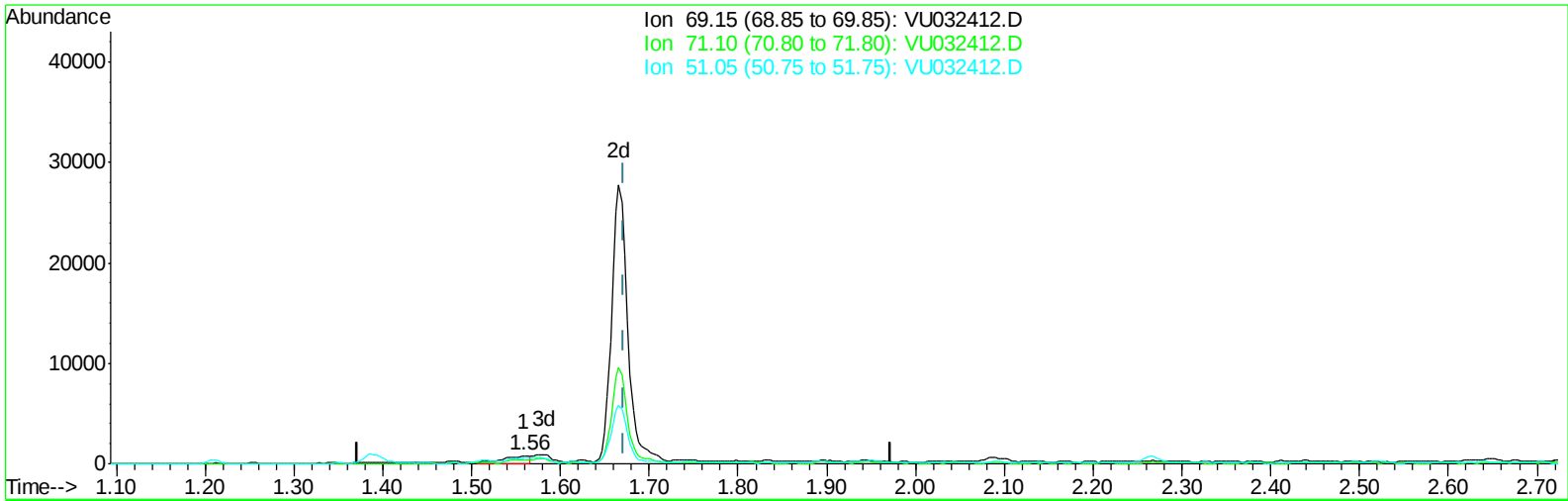
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Acq On : 03 Jun 2019 23:04  
Operator : JC/SP  
Sample : K3081-15  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GALE3

Manual Integrations  
APPROVED

MMDadoda  
6/18/2019 1:12:29 AM

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TIC: VU032412.D

(7) Chloroethane-d5 (S)

1.560min (-0.112) 0.18ug/L

response 1811

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 69.15 | 100   | 100   |
| 71.10 | 33.20 | 25.79 |
| 51.05 | 36.90 | 29.93 |
| 0.00  | 0.00  | 0.00  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU060319\  
 Data File : VU032411.D  
 Acq On : 03 Jun 2019 22:39  
 Operator : JC/SP  
 Sample : K3081-14  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GALE3

Manual Integrations  
 APPROVED

MMDadoda  
 6/18/2019 1:12:29 AM

Quant Time: Jun 04 09:44:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jun 04 08:55:15 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 102163   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 101174   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 47822    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 37627    | 3.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 78.40%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 36203    | 3.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 70.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 62042    | 2.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 55.40%# |
| 20) 2-Butanone-d5              | 4.18   | 46    | 122763   | 55.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.02% |
| 24) Chloroform-d               | 4.64   | 84    | 68334    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.30   | 65    | 42306    | 5.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.00% |
| 32) Benzene-d6                 | 5.33   | 84    | 133175   | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.34   | 67    | 46225    | 4.93     | ug/L | 0.02    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 98.60%  |
| 41) Toluene-d8                 | 7.56   | 98    | 129735   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.20%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 20259    | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.20%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 109931   | 56.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 113.54% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 40629    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 103.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 44593    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.20%  |

## Target Compounds

|                                |      |     |           |               | Ovalue |
|--------------------------------|------|-----|-----------|---------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 2355      | 0.136 ug/L    | 96     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 2714      | 0.180 ug/L    | 88     |
| 22) cis-1,2-Dichloroethene     | 4.22 | 96  | 12700     | 0.843 ug/L    | 98     |
| 33) Benzene                    | 5.39 | 78  | 11235     | 0.190 ug/L    | 100    |
| 34) Trichloroethene            | 6.18 | 95  | 48472064m | 3025.200 ug/L |        |
| 47) Tetrachloroethene          | 8.22 | 164 | 27584     | 2.462 ug/L    | 97     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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Manual Integrations  
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