

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051220\  
 Data File : VU038122.D  
 Acq On : 12 May 2020 14:27  
 Operator : JC/MD  
 Sample : L2599-01  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: May 13 01:15:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed May 13 01:13:24 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 462850   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 455085   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 218533   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 130462   | 3.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 61.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 120810   | 3.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 66.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 171646   | 2.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 48.40%# |
| 20) 2-Butanone-d5              | 4.68   | 46    | 481669   | 46.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 92.22%  |
| 24) Chloroform-d               | 5.10   | 84    | 226291   | 3.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 70.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 138245   | 3.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 75.20%  |
| 32) Benzene-d6                 | 5.76   | 84    | 500774   | 3.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 73.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 162360   | 3.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 73.80%  |
| 41) Toluene-d8                 | 7.92   | 98    | 430997   | 3.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 70.40%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 63124    | 3.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 71.60%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 391085   | 46.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 93.94%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 137090   | 3.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 79.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 162796   | 3.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 76.60%# |

## Target Compounds

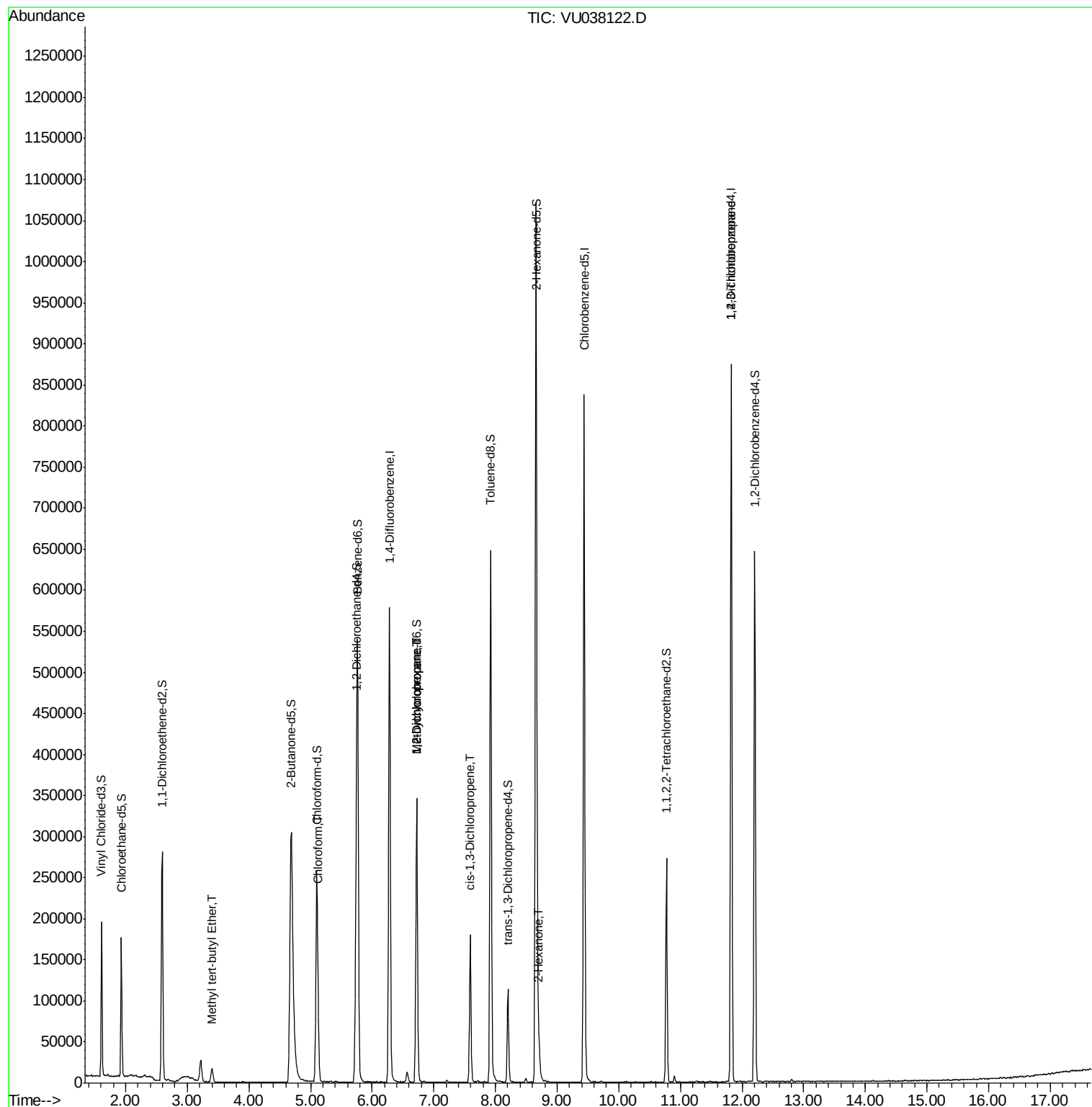
|                             |       |    |       |              | Ovalue |
|-----------------------------|-------|----|-------|--------------|--------|
| 17) Methyl tert-butyl Ether | 3.40  | 73 | 18564 | 0.208 ug/L   | 99     |
| 25) Chloroform              | 5.12  | 83 | 25507 | 0.399 ug/L   | 95     |
| 35) Methylcyclohexane       | 6.72  | 83 | 35585 | 0.603 ug/L # | 16     |
| 37) 1,2-Dichloropropane     | 6.72  | 63 | 17285 | 0.437 ug/L # | 88     |
| 39) cis-1,3-Dichloropropene | 7.59  | 75 | 4202  | 0.074 ug/L # | 71     |
| 48) 2-Hexanone              | 8.71  | 43 | 23039 | 1.147 ug/L # | 97     |
| 59) 1,2,3-Trichloropropane  | 11.83 | 75 | 29552 | 1.112 ug/L   | 93     |

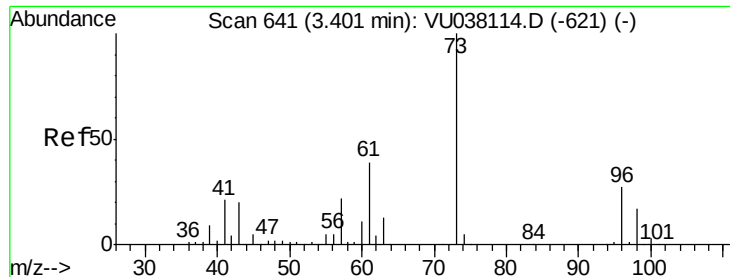
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

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MSVOA\_U  
ClientSampleId :

Quant Time: May 13 01:15:45 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed May 13 01:13:24 2020  
Response via : Initial Calibration

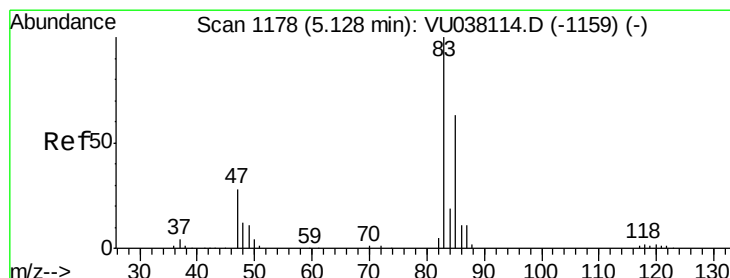
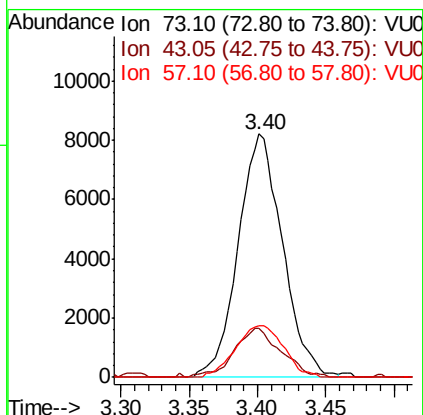
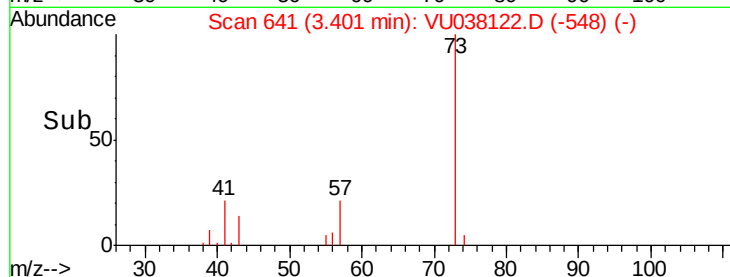
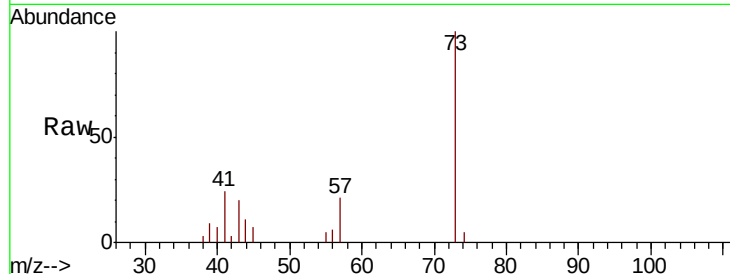




#17  
Methyl tert-butyl Ether  
Concen: 0.208 ug/L  
RT: 3.40 min Scan# 641  
Delta R.T. -0.00 min  
Lab File: VU038122.D  
Acq: 12 May 2020 14:27

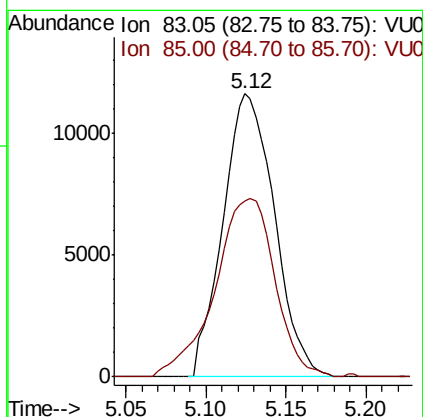
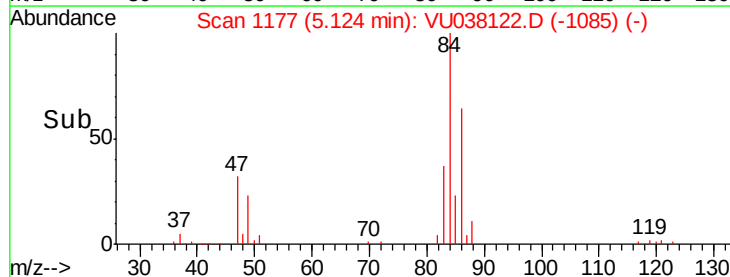
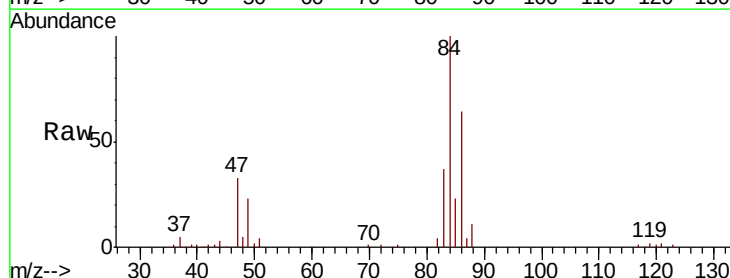
Instrument :  
MSVOA\_U  
ClientSampled :

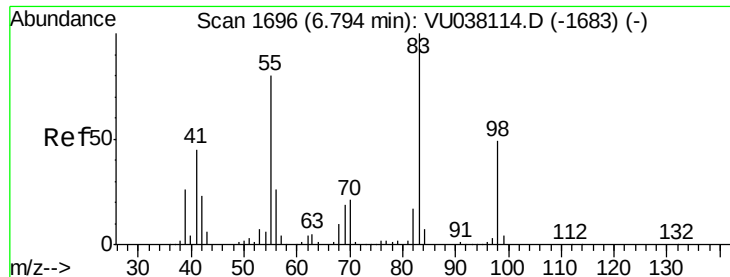
Tot Ion: 73 Resp: 18564  
Ion Ratio Lower Upper  
73 100  
43 21.4 16.9 25.3  
57 22.9 18.2 27.2



#25  
Chloroform  
Concen: 0.399 ug/L  
RT: 5.12 min Scan# 1177  
Delta R.T. -0.00 min  
Lab File: VU038122.D  
Acq: 12 May 2020 14:27

Tgt Ion: 83 Resp: 25507  
Ion Ratio Lower Upper  
83 100  
85 62.3 46.2 85.8

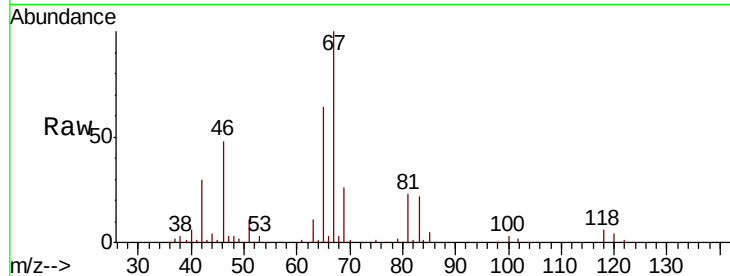




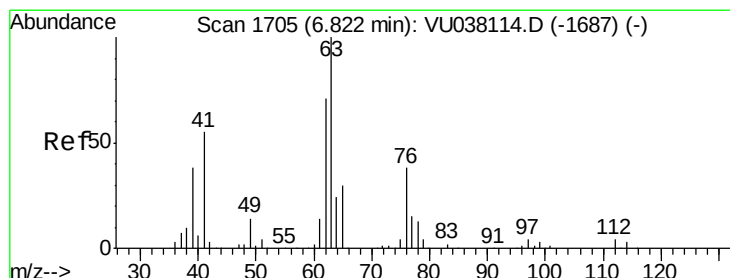
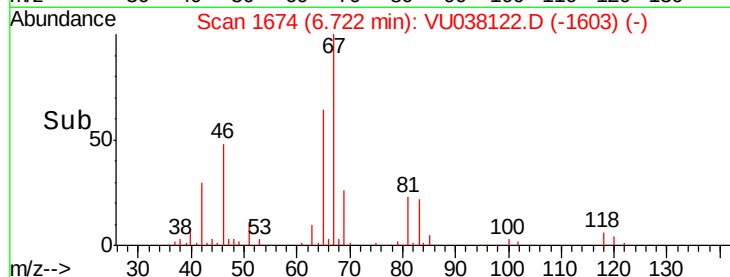
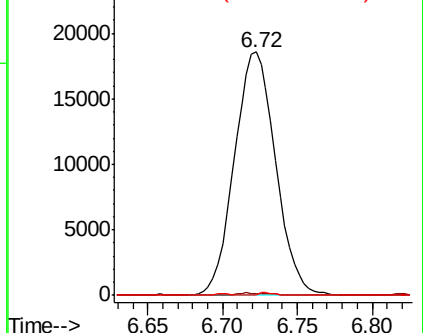
#35  
Methylvlcyclohexane  
Concen: 0.603 ug/L  
RT: 6.72 min Scan# 1674  
Delta R.T. -0.07 min  
Lab File: VU038122.D  
Acq: 12 May 2020 14:27

Instrument :  
MSVOA\_U  
ClientSampled :

Tot Ion: 83 Resp: 35585  
Ion Ratio Lower Upper  
83 100  
55 0.2 66.7 100.1#  
98 0.4 39.4 59.2#

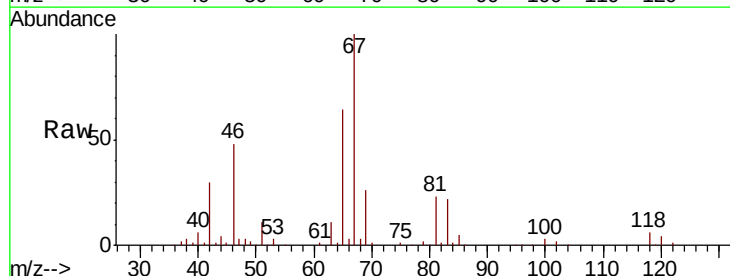


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

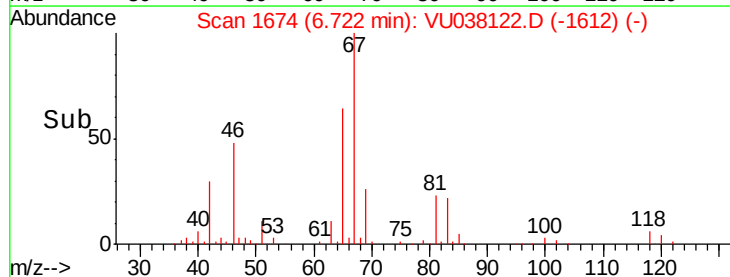
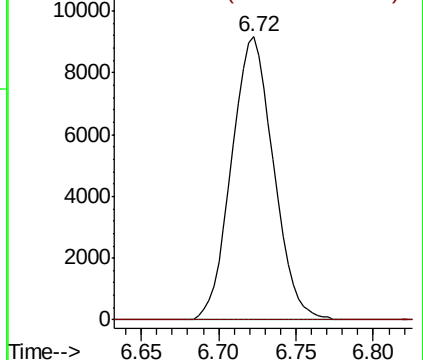


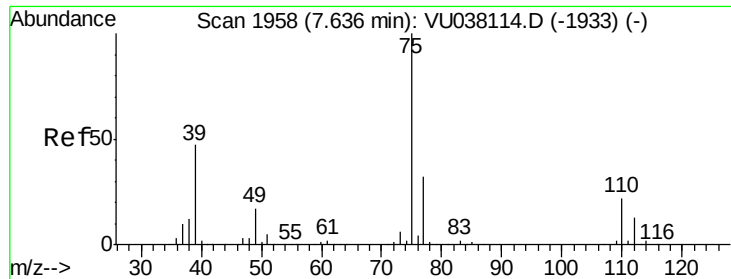
#37  
1,2-Dichloropropane  
Concen: 0.437 ug/L  
RT: 6.72 min Scan# 1674  
Delta R.T. -0.10 min  
Lab File: VU038122.D  
Acq: 12 May 2020 14:27

Tgt Ion: 63 Resp: 17285  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V

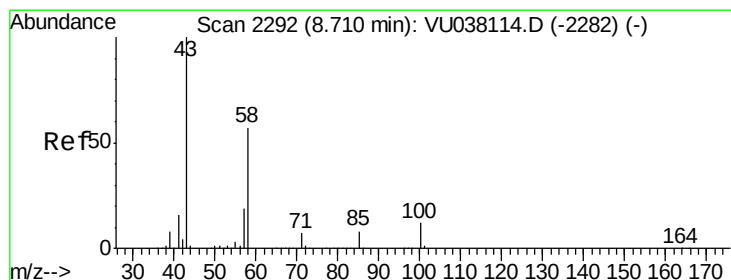
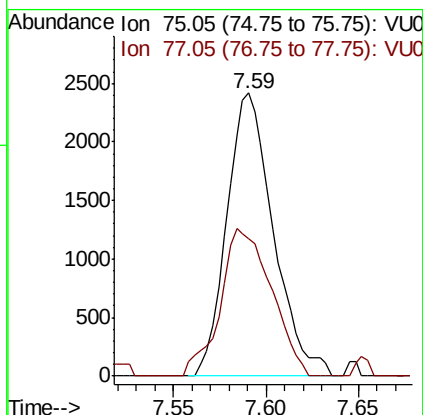
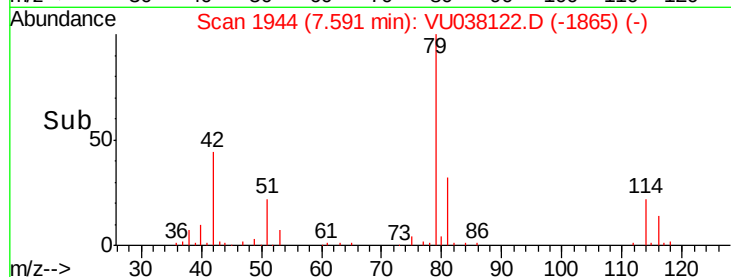
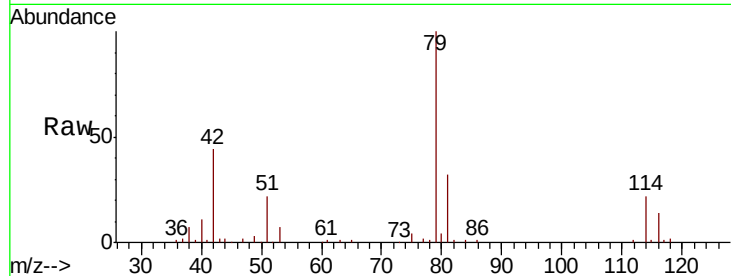




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.074 ug/L  
 RT: 7.59 min Scan# 1944  
 Delta R.T. -0.05 min  
 Lab File: VU038122.D  
 Acq: 12 May 2020 14:27

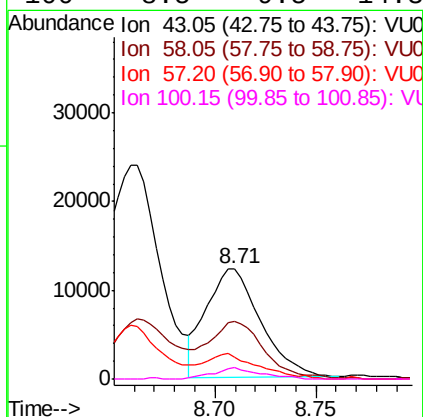
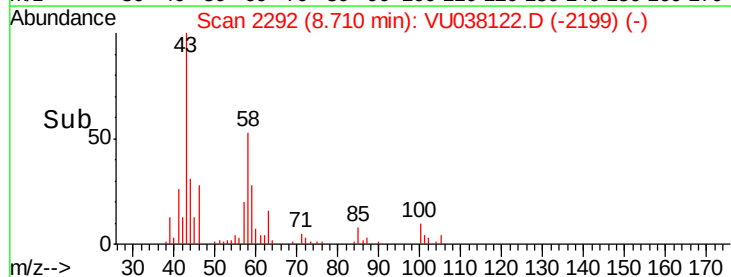
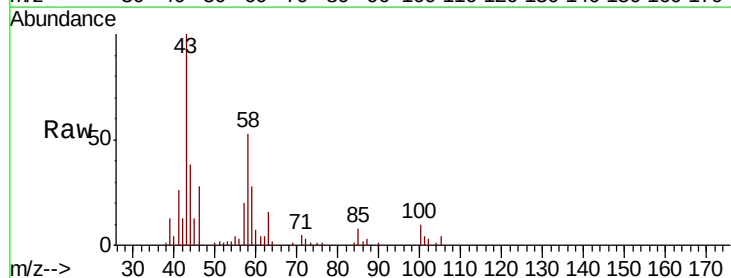
Instrument :  
 MSVOA\_U  
 ClientSampled :

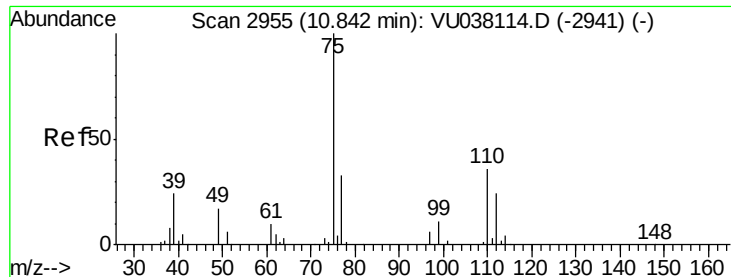
Tot Ion: 75 Resp: 4202  
 Ion Ratio Lower Upper  
 75 100  
 77 48.3 22.4 41.6#



#48  
 2-Hexanone  
 Concen: 1.147 ug/L  
 RT: 8.71 min Scan# 2292  
 Delta R.T. -0.00 min  
 Lab File: VU038122.D  
 Acq: 12 May 2020 14:27

Tgt Ion: 43 Resp: 23039  
 Ion Ratio Lower Upper  
 43 100  
 58 56.0 45.2 67.8  
 57 21.9 15.5 23.3  
 100 8.5 9.5 14.3#





#59

1,2,3-Trichloropropane

Concen: 1.112 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. 0.98 min

Lab File: VU038122.D

Acq: 12 May 2020 14:27

Instrument :

MSVOA\_U

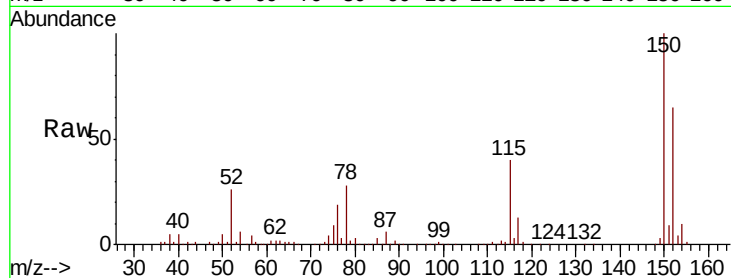
ClientSampleId :

Tot Ion: 75 Resp: 29552

Ion Ratio Lower Upper

75 100

77 35.6 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

