

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121020\  
 Data File : VU041532.D  
 Acq On : 10 Dec 2020 13:35  
 Operator : SY/MD  
 Sample : L4979-24  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

Quant Time: Dec 11 06:07:33 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Dec 11 06:06:19 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 44432    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 44541    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 22871    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 11322    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 99.20%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 10744    | 5.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 107.40% |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 21775    | 3.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 78.80%  |
| 20) 2-Butanone-d5              | 4.65   | 46    | 31468    | 36.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 73.54%  |
| 24) Chloroform-d               | 5.08   | 84    | 32051    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.60% |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 20459    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.60%  |
| 32) Benzene-d6                 | 5.74   | 84    | 49431    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 12942    | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.20%  |
| 41) Toluene-d8                 | 7.91   | 98    | 47248    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.20%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 7639     | 4.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 88.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 24876    | 34.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 69.54%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 12833    | 4.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 80.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 22154    | 5.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 113.20% |

## Target Compounds

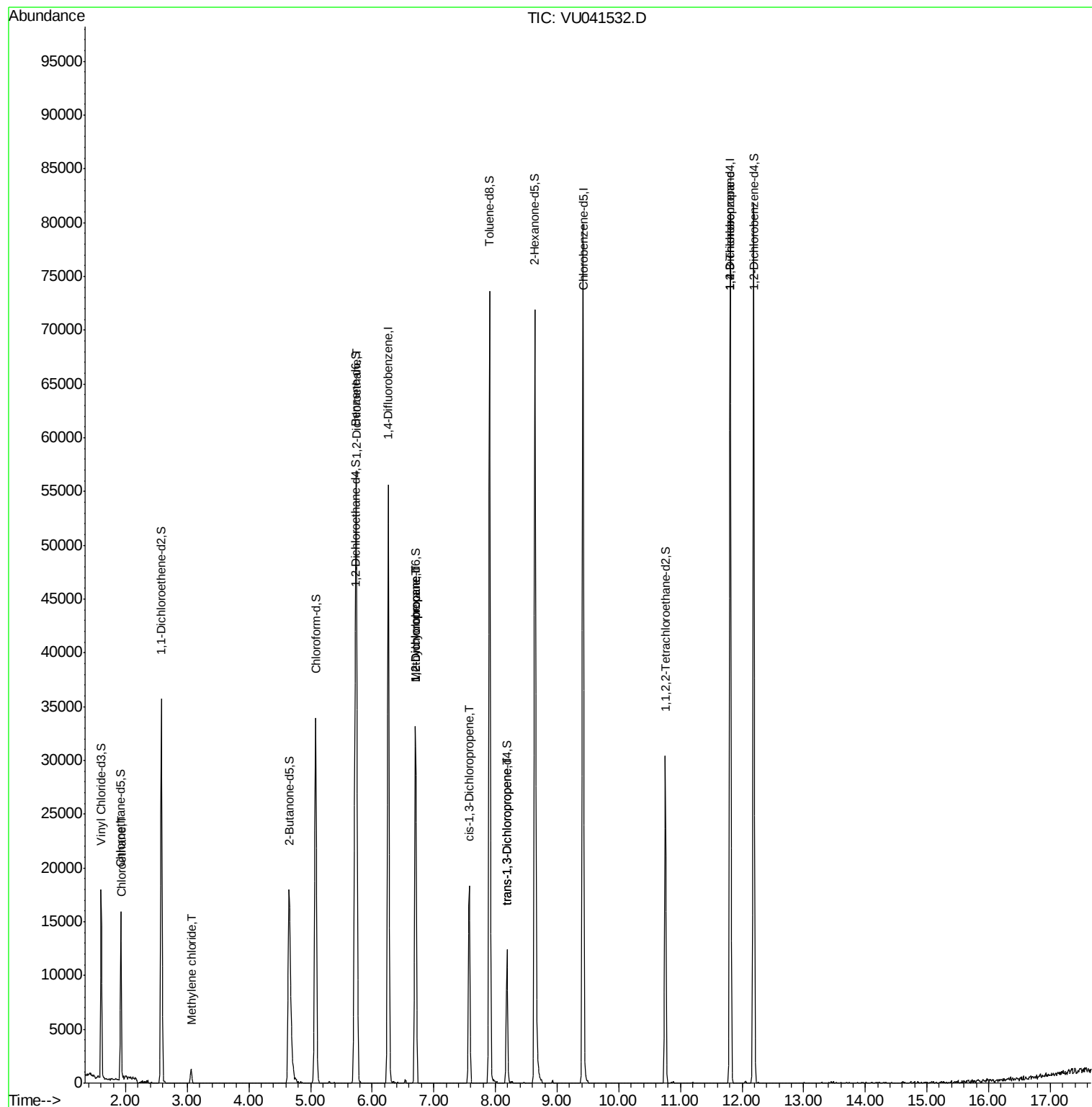
|                               |       |    |      |              | Ovalue |
|-------------------------------|-------|----|------|--------------|--------|
| 8) Chloroethane               | 1.94  | 64 | 153  | 0.078 ug/L # | 45     |
| 16) Methylene chloride        | 3.07  | 84 | 661  | 0.190 ug/L # | 70     |
| 27) 1,2-Dichloroethane        | 5.75  | 62 | 381  | 0.079 ug/L # | 79     |
| 35) Methylcyclohexane         | 6.70  | 83 | 4093 | 0.902 ug/L # | 17     |
| 37) 1,2-Dichloropropane       | 6.70  | 63 | 2057 | 0.796 ug/L # | 84     |
| 39) cis-1,3-Dichloropropene   | 7.57  | 75 | 455  | 0.097 ug/L   | 94     |
| 44) trans-1,3-Dichloropropene | 8.19  | 75 | 289  | 0.062 ug/L # | 77     |
| 59) 1,2,3-Trichloropropane    | 11.81 | 75 | 1845 | 0.736 ug/L # | 66     |

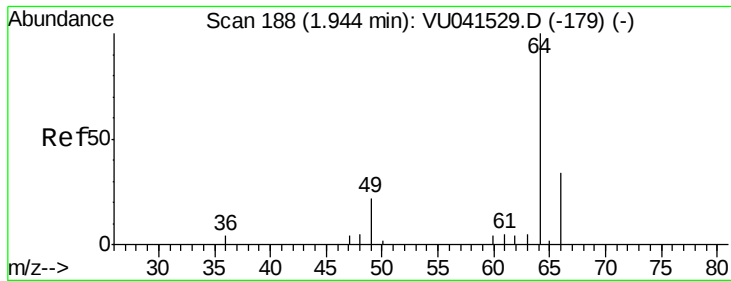
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_U  
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VHBLK01

Quant Time: Dec 11 06:07:33 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR120420WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Dec 11 06:06:19 2020  
Response via : Initial Calibration

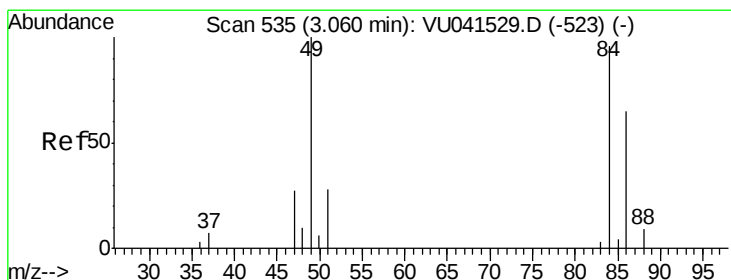
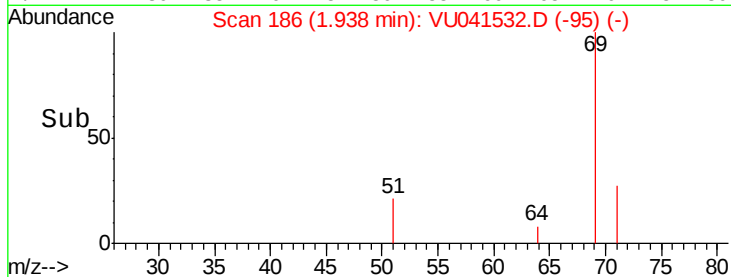
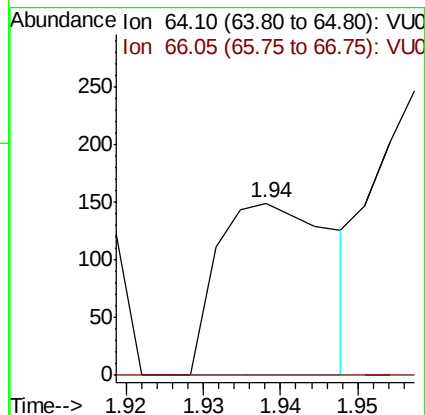
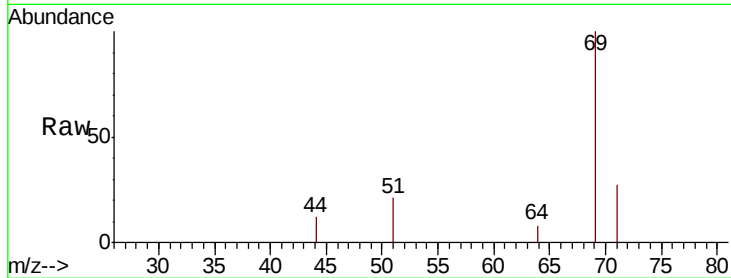




#8  
Chloroethane  
Concen: 0.078 ug/L  
RT: 1.94 min Scan# 186  
Delta R.T. -0.01 min  
Lab File: VU041532.D  
Acq: 10 Dec 2020 13:35

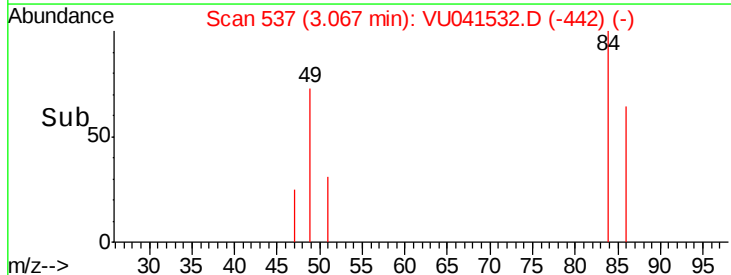
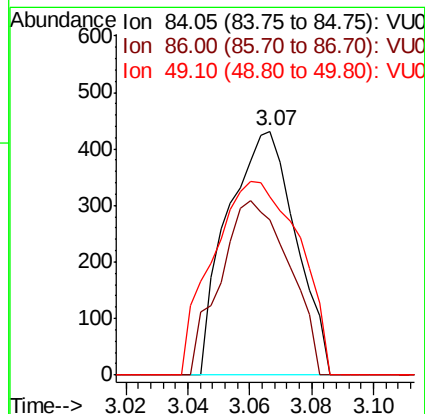
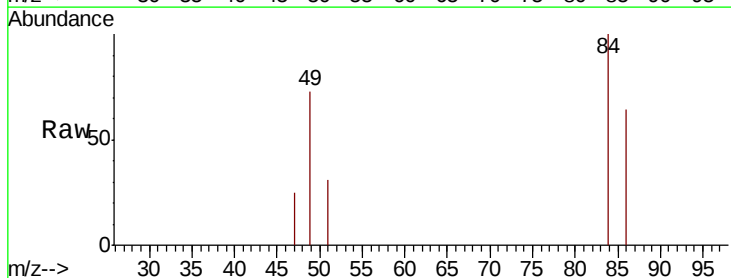
Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

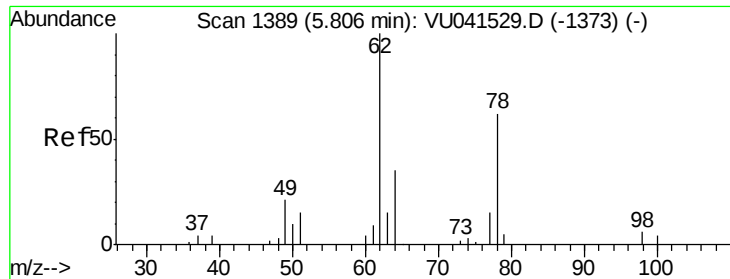
Tot Ion: 64 Resp: 153  
Ion Ratio Lower Upper  
64 100  
66 0.0 20.9 38.9#



#16  
Methylene chloride  
Concen: 0.190 ug/L  
RT: 3.07 min Scan# 537  
Delta R.T. 0.01 min  
Lab File: VU041532.D  
Acq: 10 Dec 2020 13:35

Tgt Ion: 84 Resp: 661  
Ion Ratio Lower Upper  
84 100  
86 63.6 44.1 81.9  
49 73.1 86.1 159.9#

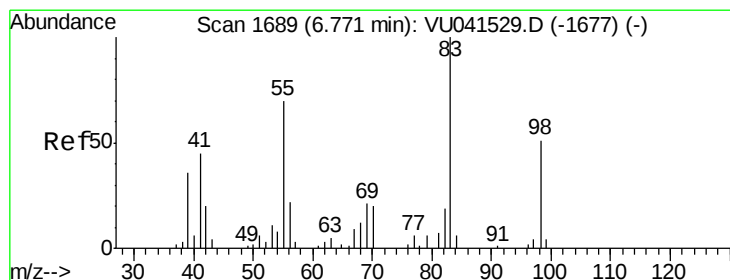
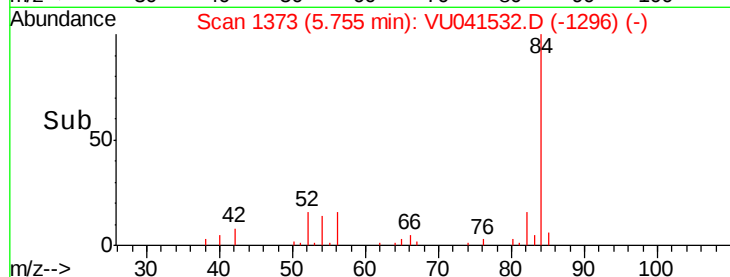
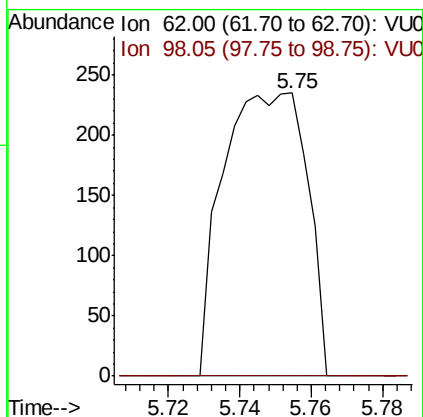
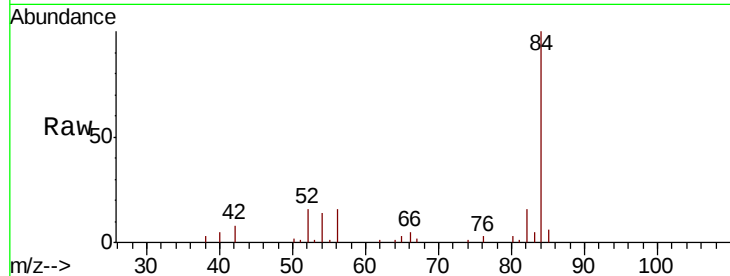




#27  
 1,2-Dichloroethane  
 Concen: 0.079 ug/L  
 RT: 5.75 min Scan# 1373  
 Delta R.T. -0.05 min  
 Lab File: VU041532.D  
 Acq: 10 Dec 2020 13:35

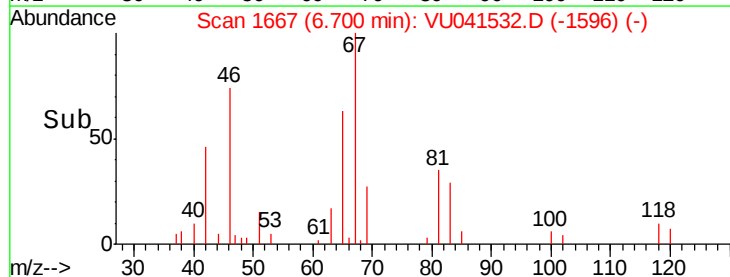
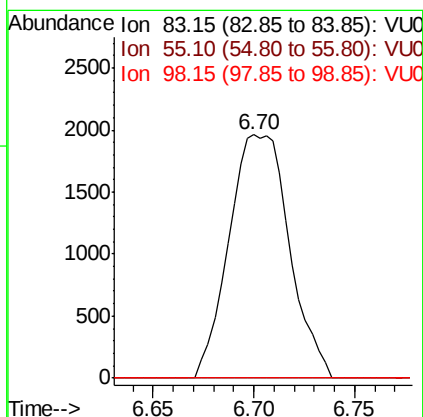
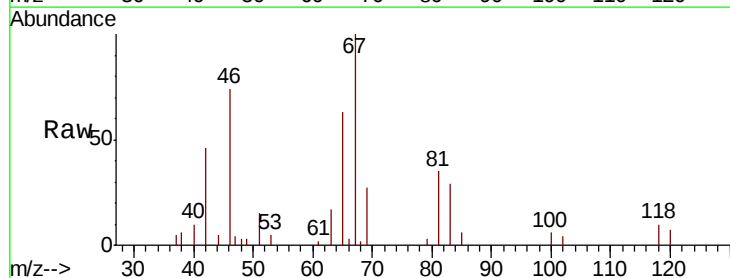
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

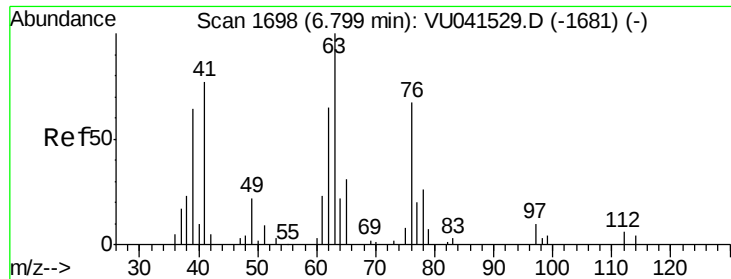
Tot Ion: 62 Resp: 381  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 5.7 8.5#



#35  
 Methylcyclohexane  
 Concen: 0.902 ug/L  
 RT: 6.70 min Scan# 1667  
 Delta R.T. -0.07 min  
 Lab File: VU041532.D  
 Acq: 10 Dec 2020 13:35

Tgt Ion: 83 Resp: 4093  
 Ion Ratio Lower Upper  
 83 100  
 55 0.0 62.1 93.1#  
 98 0.0 38.7 58.1#

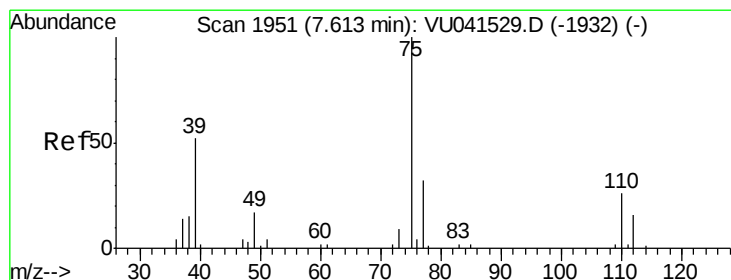
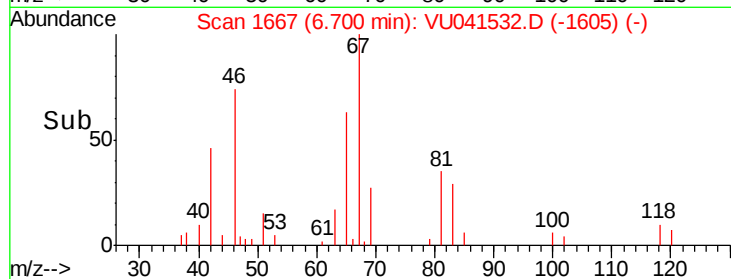
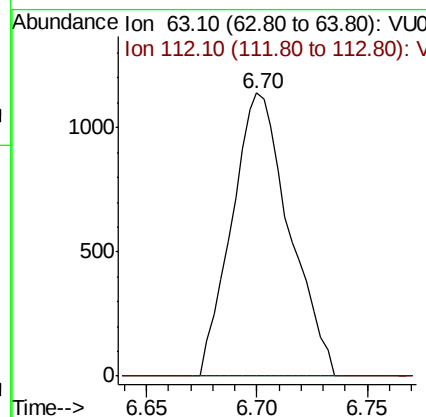
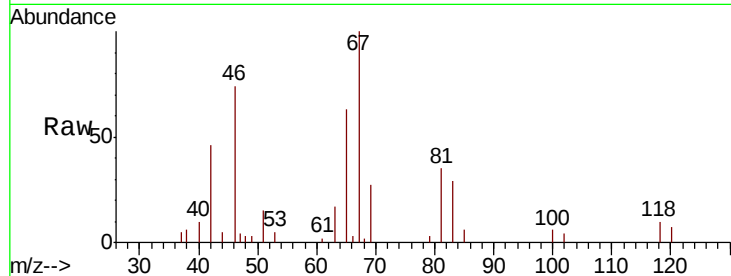




#37  
 1,2-Dichloropropane  
 Concen: 0.796 ug/L  
 RT: 6.70 min Scan# 1667  
 Delta R.T. -0.10 min  
 Lab File: VU041532.D  
 Acq: 10 Dec 2020 13:35

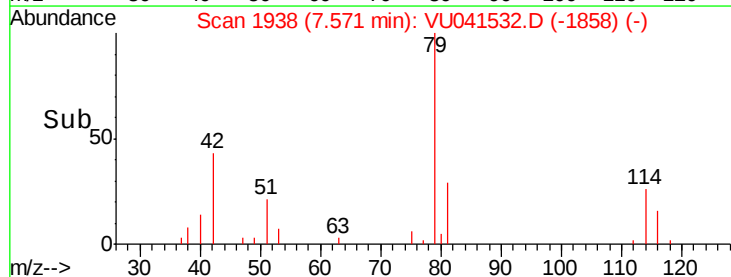
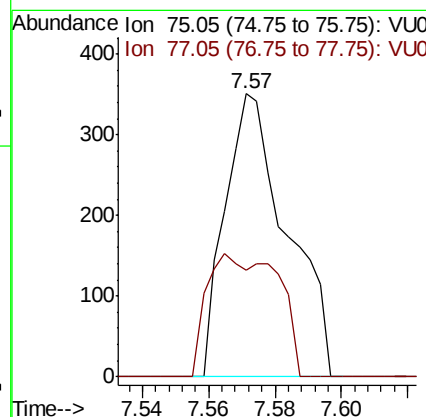
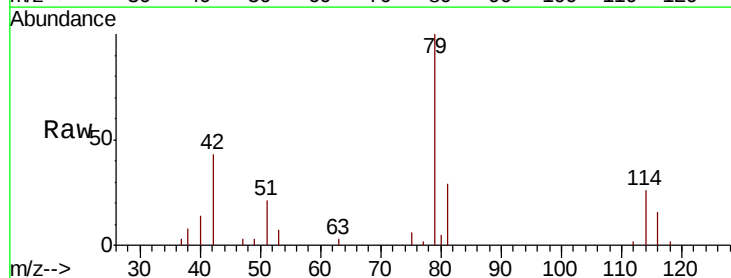
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

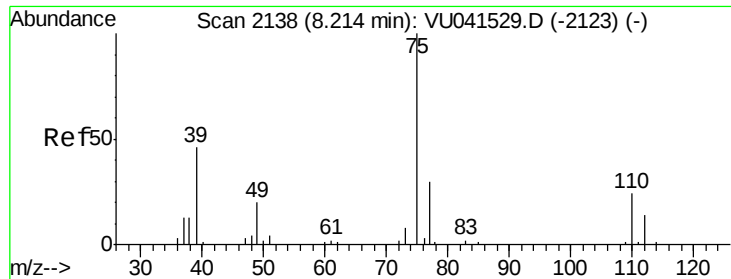
Tot Ion: 63 Resp: 2057  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 4.2 6.2#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.097 ug/L  
 RT: 7.57 min Scan# 1938  
 Delta R.T. -0.04 min  
 Lab File: VU041532.D  
 Acq: 10 Dec 2020 13:35

Tgt Ion: 75 Resp: 455  
 Ion Ratio Lower Upper  
 75 100  
 77 37.6 24.0 44.6





#44

trans-1,3-Dichloropropene

Concen: 0.062 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041532.D

Acq: 10 Dec 2020 13:35

Instrument :

MSVOA\_U

ClientSampled :

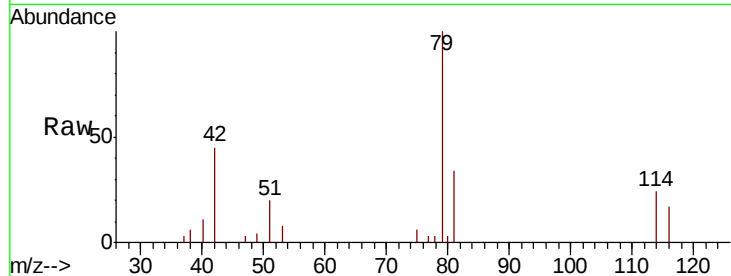
VHBLK01

Tot Ion: 75 Resp: 289

Ion Ratio Lower Upper

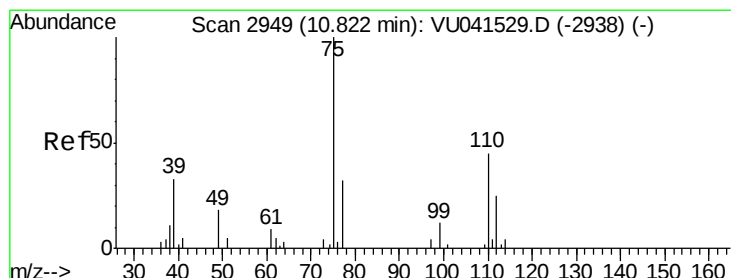
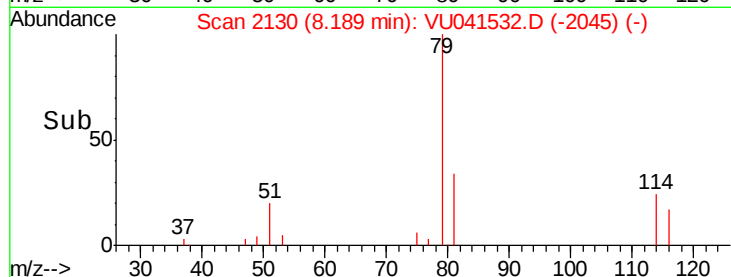
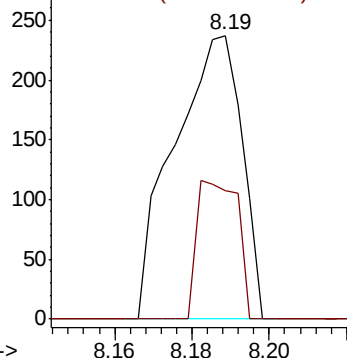
75 100

77 45.1 22.7 42.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#59

1,2,3-Trichloropropane

Concen: 0.736 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041532.D

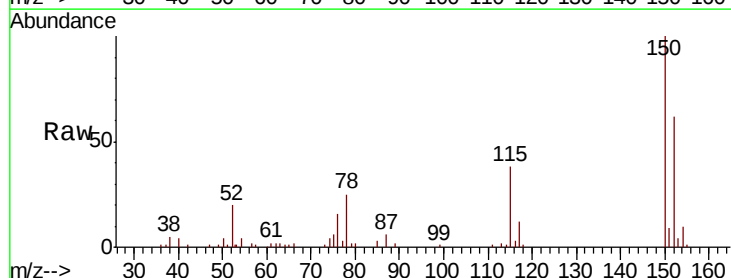
Acq: 10 Dec 2020 13:35

Tgt Ion: 75 Resp: 1845

Ion Ratio Lower Upper

75 100

77 51.9 26.3 39.5#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

