

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031120\  
 Data File : VU037161.D  
 Acq On : 11 Mar 2020 11:51  
 Operator : JC/MD  
 Sample : VU0311WBL01  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VBLK21

Quant Time: Mar 12 01:57:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR031120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Mar 12 01:55:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 123060   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 122293   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 47850    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 37563    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 93.00%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 29084    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 101.80% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 59677    | 3.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 71.60%  |
| 20) 2-Butanone-d5              | 4.69   | 46    | 109022   | 52.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 105.48% |
| 24) Chloroform-d               | 5.11   | 84    | 77338    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 48750    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.60% |
| 32) Benzene-d6                 | 5.76   | 84    | 147108   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 48214    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.20%  |
| 41) Toluene-d8                 | 7.93   | 98    | 133194   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.60%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 19493    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 99.40%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 80529    | 49.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 98.56%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 38372    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 43820    | 5.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 106.00% |

## Target Compounds

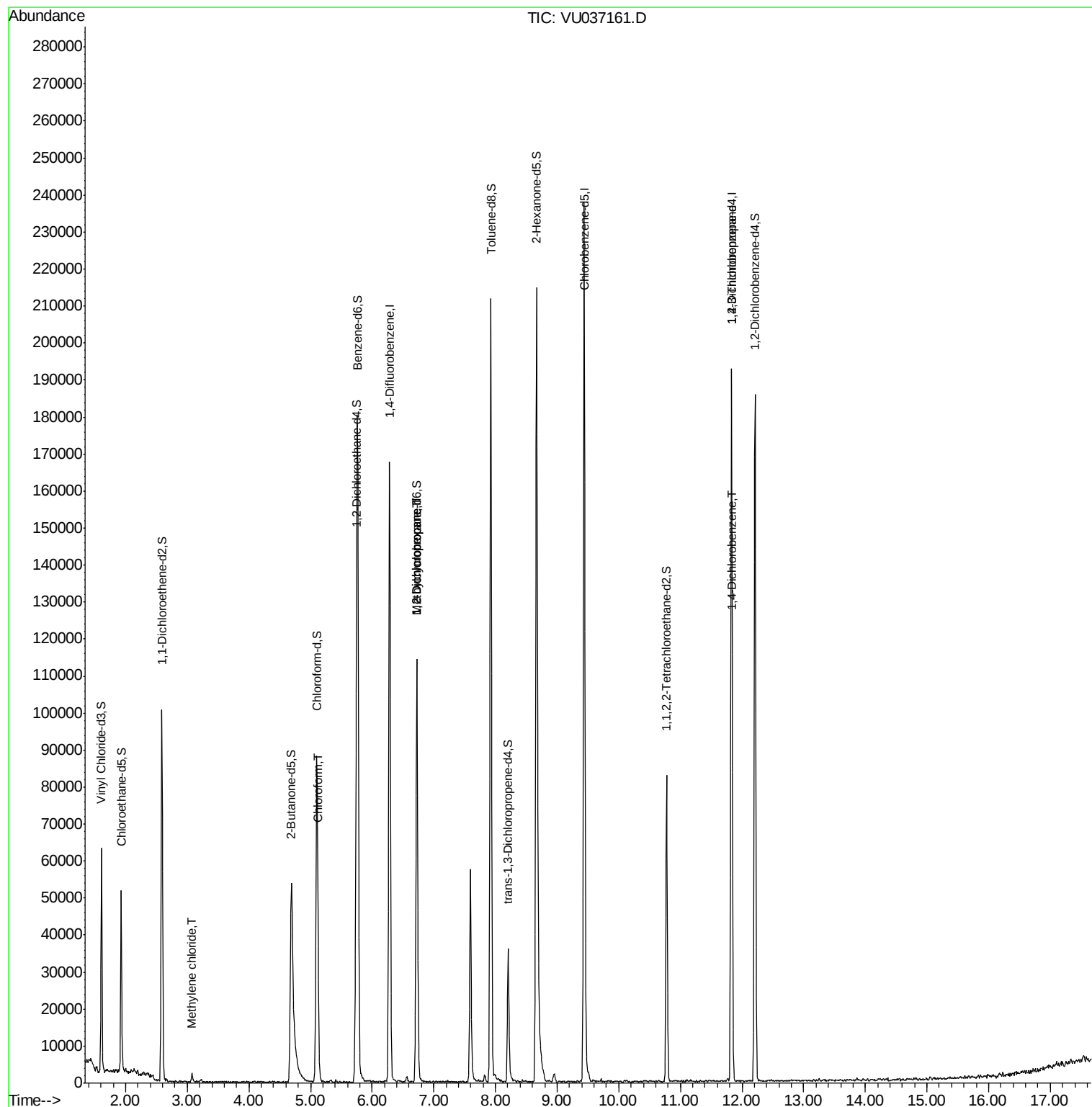
|                            |       |     |       |              | Ovalue |
|----------------------------|-------|-----|-------|--------------|--------|
| 16) Methylene chloride     | 3.08  | 84  | 756   | 0.078 ug/L   | 94     |
| 25) Chloroform             | 5.13  | 83  | 4016  | 0.214 ug/L   | 79     |
| 35) Methylcyclohexane      | 6.73  | 83  | 11442 | 0.758 ug/L # | 16     |
| 37) 1,2-Dichloropropane    | 6.72  | 63  | 6335  | 0.666 ug/L # | 88     |
| 59) 1,2,3-Trichloropropane | 11.83 | 75  | 7758  | 1.139 ug/L   | 95     |
| 63) 1,4-Dichlorobenzene    | 11.85 | 146 | 1114  | 0.072 ug/L   | 85     |

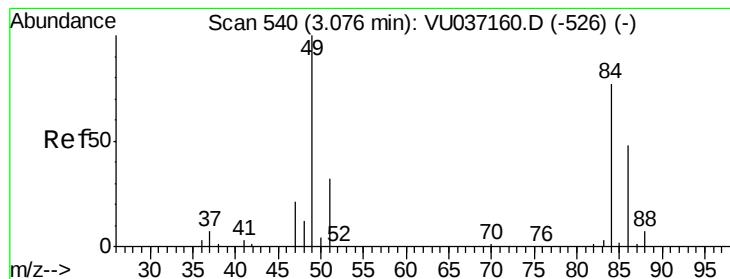
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_U  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR031120WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Mar 12 01:55:55 2020  
Response via : Initial Calibration





#16

Methvlene chloride

Concen: 0.078 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU037161.D

Acq: 11 Mar 2020 11:51

Instrument :

MSVOA\_U

ClientSampled :

VBLK21

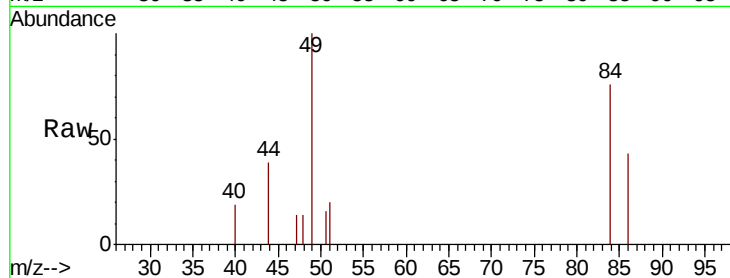
Tot Ion: 84 Resp: 756

Ion Ratio Lower Upper

84 100

86 56.6 44.3 82.3

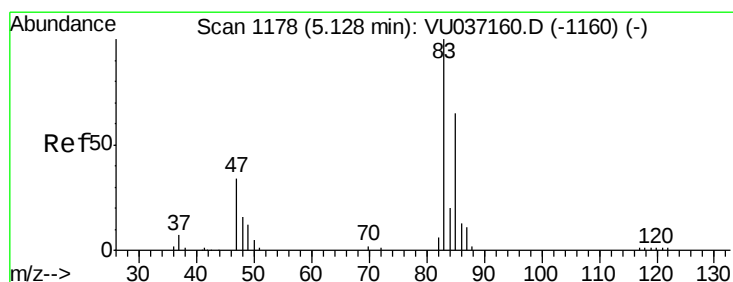
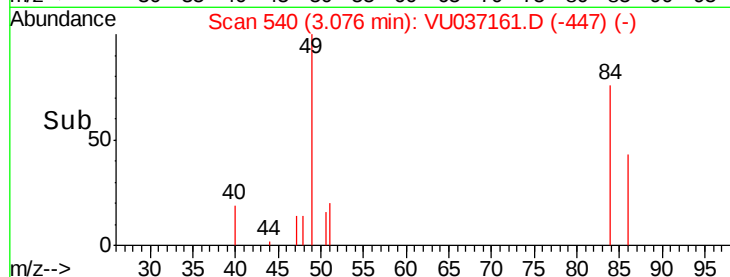
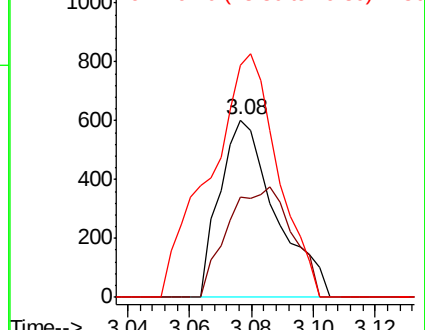
49 130.9 95.3 177.1



Abundance Ion 84.05 (83.75 to 84.75): VU037161.D (-447) (-)

Ion 86.00 (85.70 to 86.70): VU037161.D (-447) (-)

Ion 49.10 (48.80 to 49.80): VU037161.D (-447) (-)



#25

Chloroform

Concen: 0.214 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU037161.D

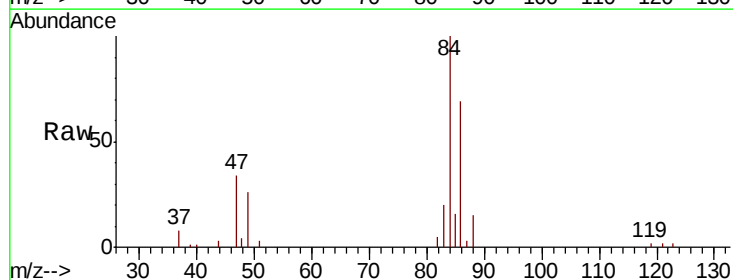
Acq: 11 Mar 2020 11:51

Tgt Ion: 83 Resp: 4016

Ion Ratio Lower Upper

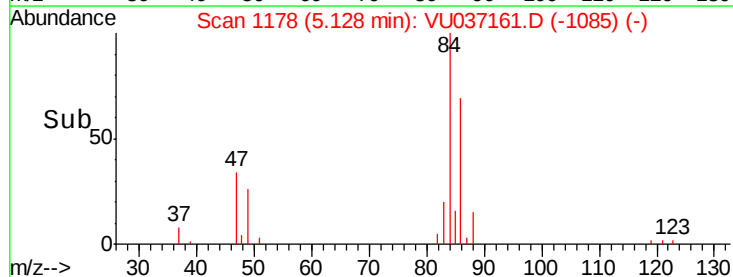
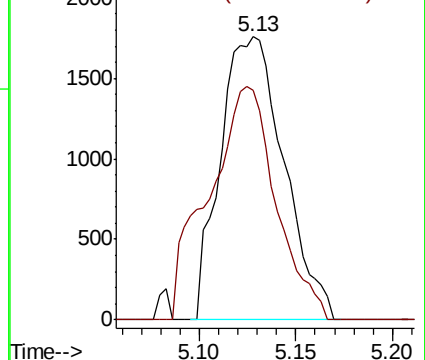
83 100

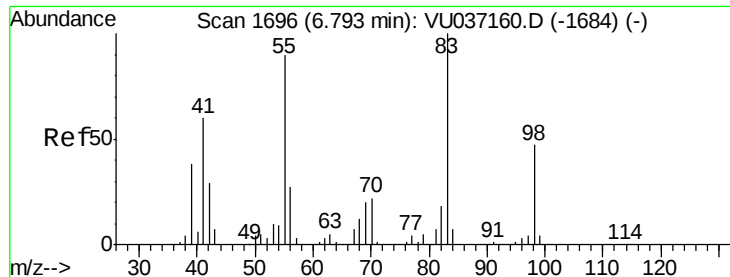
85 81.1 45.3 84.1



Abundance Ion 83.05 (82.75 to 83.75): VU037161.D (-1085) (-)

Ion 85.00 (84.70 to 85.70): VU037161.D (-1085) (-)

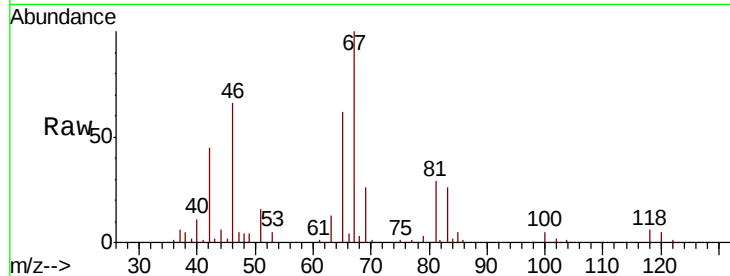




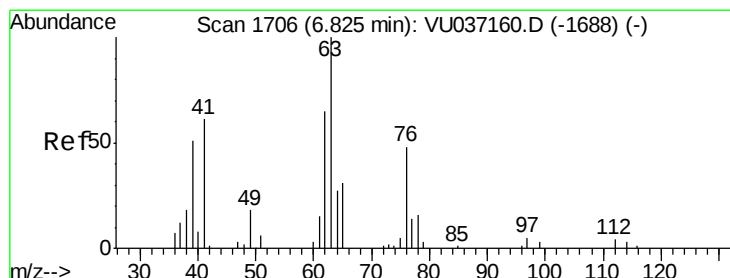
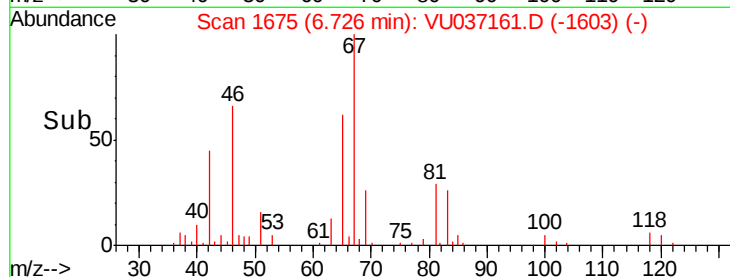
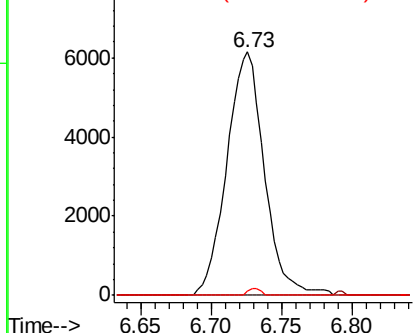
#35  
Methvlcvclohexane  
Concen: 0.758 ug/L  
RT: 6.73 min Scan# 1675  
Delta R.T. -0.07 min  
Lab File: VU037161.D  
Acq: 11 Mar 2020 11:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
VBLK21

Tot Ion: 83 Resp: 11442  
Ion Ratio Lower Upper  
83 100  
55 0.4 68.1 102.1#  
98 0.9 37.0 55.4#

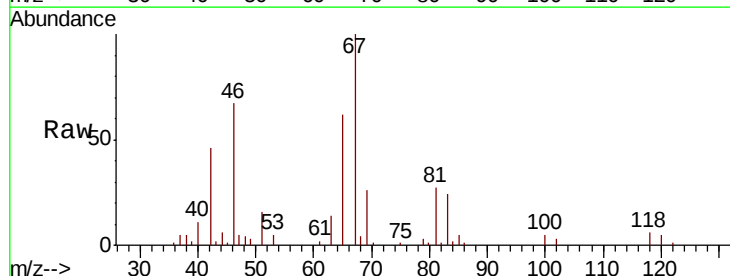


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

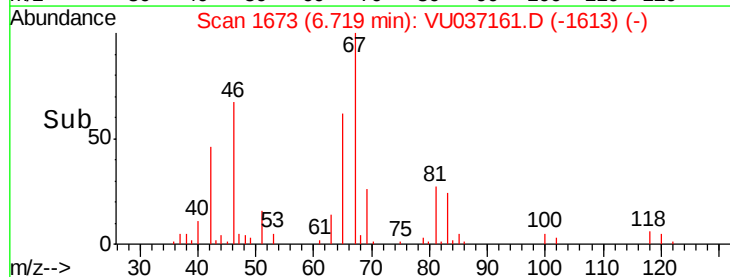
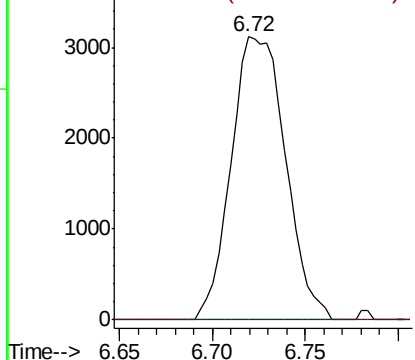


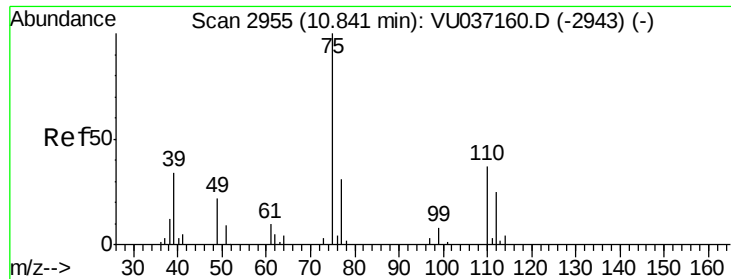
#37  
1,2-Dichloropropane  
Concen: 0.666 ug/L  
RT: 6.72 min Scan# 1673  
Delta R.T. -0.11 min  
Lab File: VU037161.D  
Acq: 11 Mar 2020 11:51

Tgt Ion: 63 Resp: 6335  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.0 4.6#



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

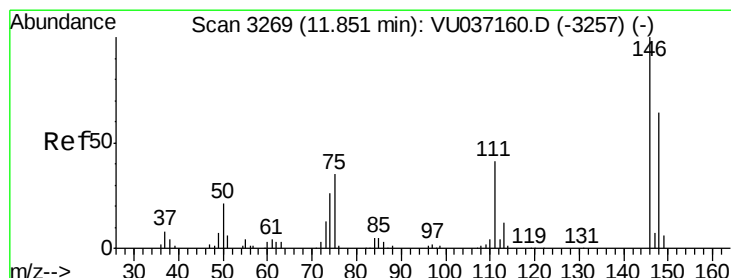
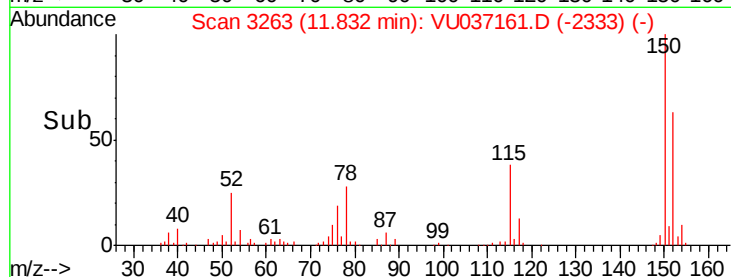
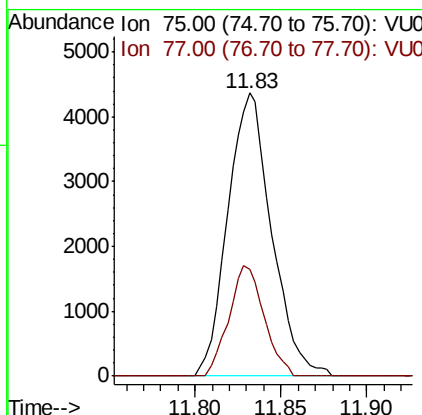
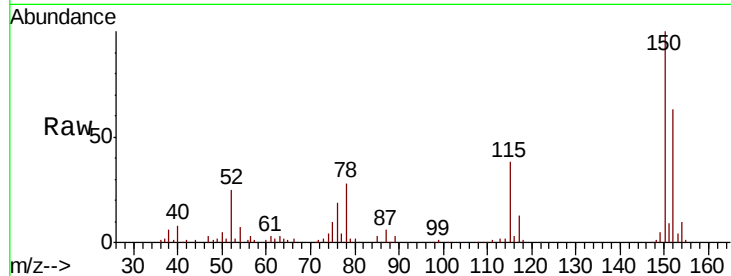




#59  
 1,2,3-Trichloropropane  
 Concen: 1.139 ug/L  
 RT: 11.83 min Scan# 3263  
 Delta R.T. 0.99 min  
 Lab File: VU037161.D  
 Acq: 11 Mar 2020 11:51

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VBLK21

Tot Ion: 75 Resp: 7758  
 Ion Ratio Lower Upper  
 75 100  
 77 31.3 27.4 41.0



#63  
 1,4-Dichlorobenzene  
 Concen: 0.072 ug/L  
 RT: 11.85 min Scan# 3269  
 Delta R.T. 0.00 min  
 Lab File: VU037161.D  
 Acq: 11 Mar 2020 11:51

Tgt Ion: 146 Resp: 1114  
 Ion Ratio Lower Upper  
 146 100  
 111 45.9 28.4 52.8  
 148 49.0 44.9 83.5

