

Data File : VV009063.D  
Acq On : 19 Dec 2018 22:19  
Operator : SY/MD  
Sample : J6471-03  
Misc : 6.00G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9H12

Quant Time: Dec 20 03:49:15 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM120618S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Dec 20 03:44:50 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 221203   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 197412   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 88978    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 47366    | 20.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 82.76%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 53674    | 31.74    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 126.96% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 94235    | 16.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 65.88%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 34866    | 41.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 83.68%  |
| 24) Chloroform-d               | 4.40   | 84    | 135228   | 25.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 101.72% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 82534    | 28.44    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 113.76% |
| 29) Benzene-d6                 | 5.10   | 84    | 270161   | 24.50    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 98.00%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 83891    | 27.18    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 108.72% |
| 37) Toluene-d8                 | 7.36   | 98    | 243173   | 23.83    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 95.32%  |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 34804    | 25.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 102.64% |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 21192    | 37.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 74.96%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 56746    | 21.92    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 87.68%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 82378    | 24.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 98.68%  |

#### Target Compounds

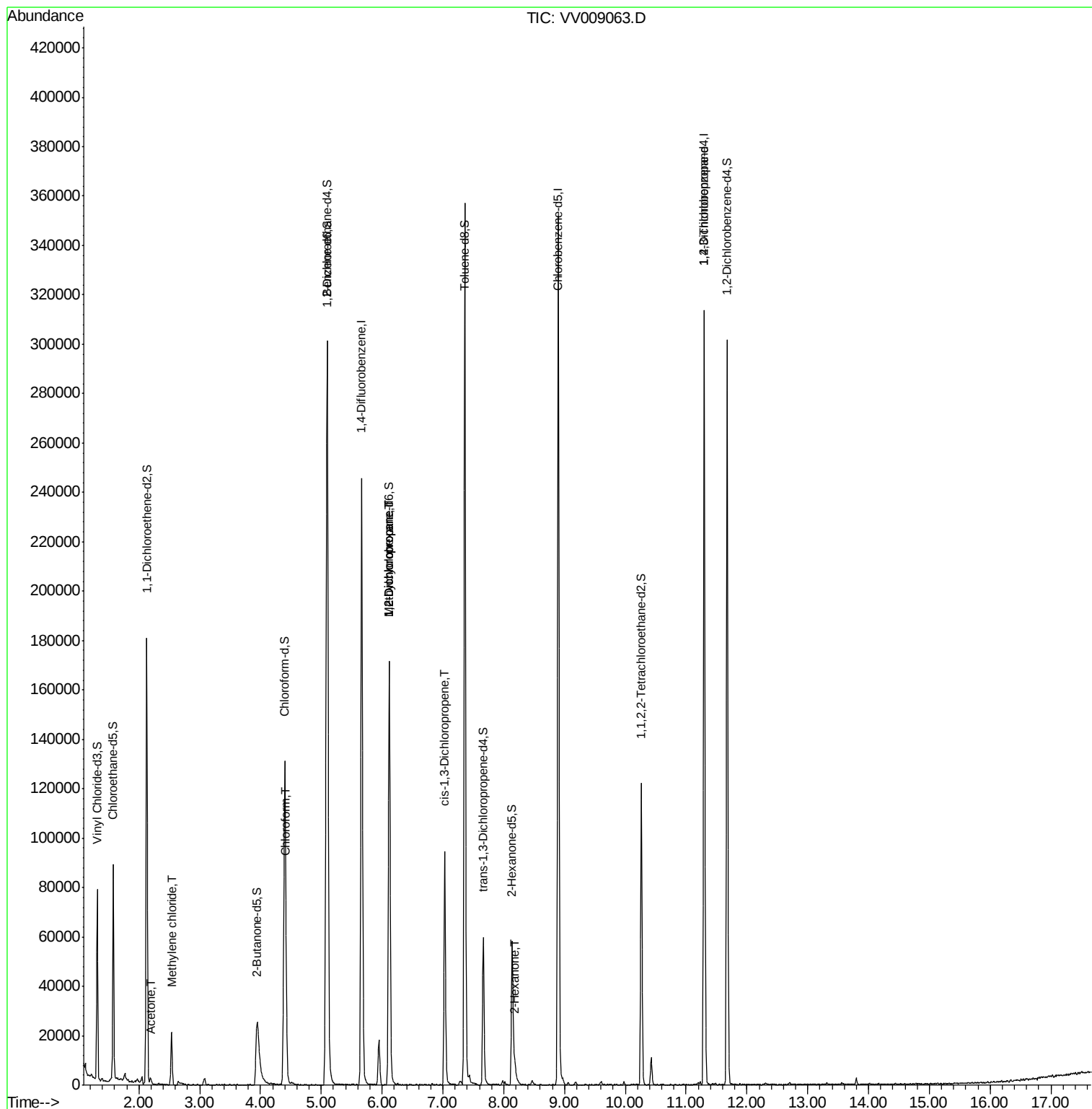
|                             |       |    |       |              | Qvalue |
|-----------------------------|-------|----|-------|--------------|--------|
| 13) Acetone                 | 2.20  | 43 | 2144  | 1.746 ug/L   | 72     |
| 16) Methylene chloride      | 2.54  | 84 | 8913  | 2.393 ug/L   | 98     |
| 25) Chloroform              | 4.43  | 83 | 3728  | 0.695 ug/L # | 27     |
| 36) Methylcyclohexane       | 6.12  | 83 | 21166 | 3.722 ug/L # | 21     |
| 40) 1,2-Dichloropropane     | 6.12  | 63 | 9077  | 3.198 ug/L # | 85     |
| 42) cis-1,3-Dichloropropene | 7.03  | 75 | 2621  | 0.631 ug/L # | 61     |
| 49) 2-Hexanone              | 8.19  | 43 | 3906  | 2.461 ug/L # | 89     |
| 59) 1,2,3-Trichloropropane  | 11.30 | 75 | 9245  | 4.179 ug/L   | 89     |

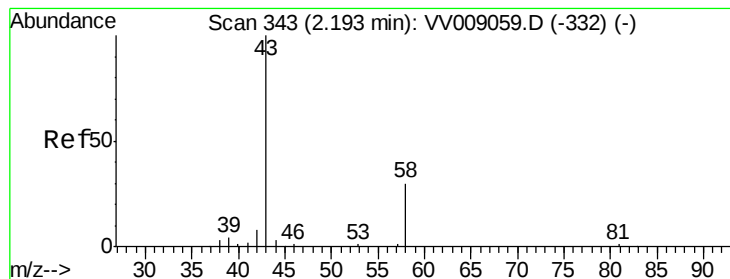
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VV009063.D  
Acq On : 19 Dec 2018 22:19  
Operator : SY/MD  
Sample : J6471-03  
Misc : 6.00G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F9H12

Quant Time: Dec 20 03:49:15 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM120618S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Dec 20 03:44:50 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 1.746 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.01 min

Lab File: VV009063.D

Acq: 19 Dec 2018 22:19

Instrument :

MSVOA\_V

ClientSampled :

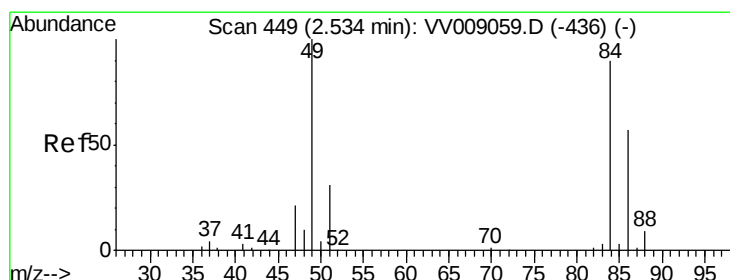
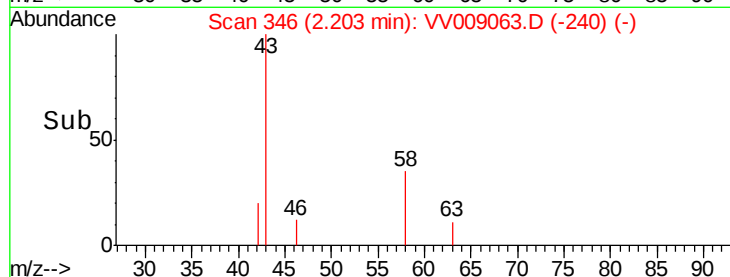
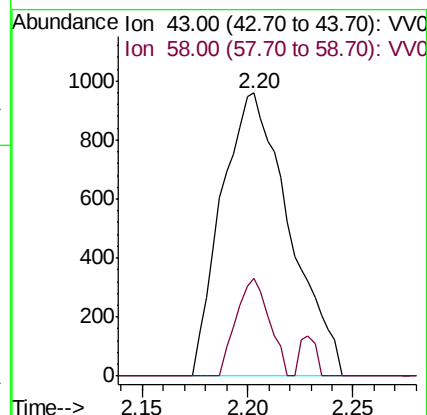
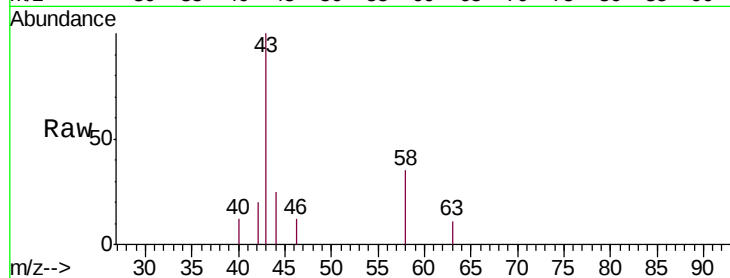
F9H12

Tgt Ion: 43 Resp: 2144

Ion Ratio Lower Upper

43 100

58 16.9 0.0 65.4



#16

Methylene chloride

Concen: 2.393 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV009063.D

Acq: 19 Dec 2018 22:19

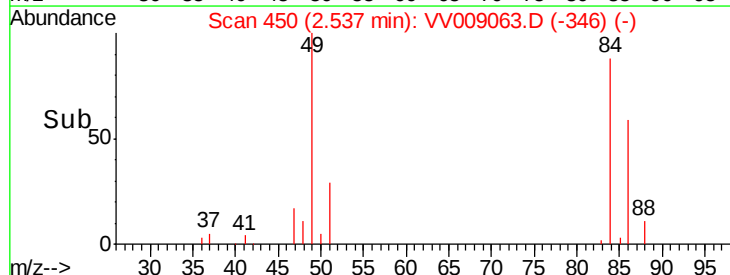
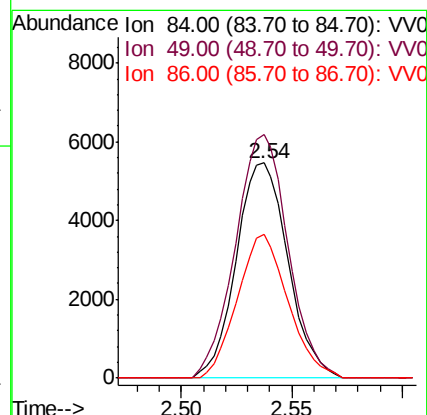
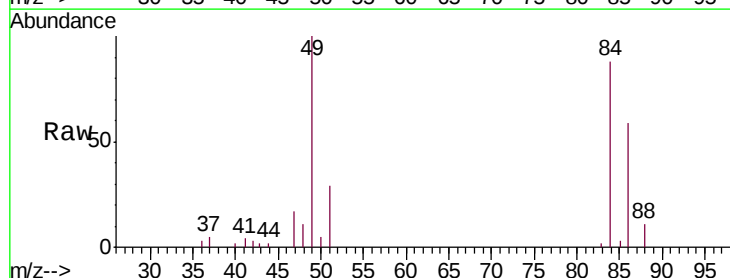
Tgt Ion: 84 Resp: 8913

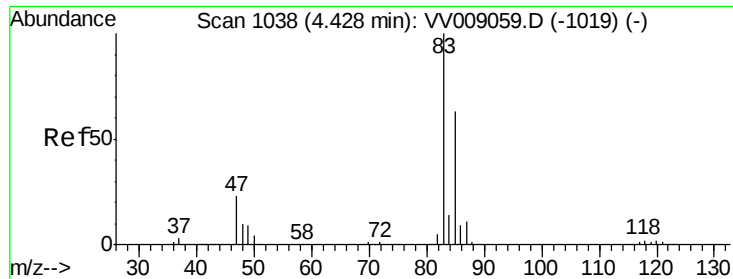
Ion Ratio Lower Upper

84 100

49 113.3 80.5 149.5

86 67.2 45.5 84.5

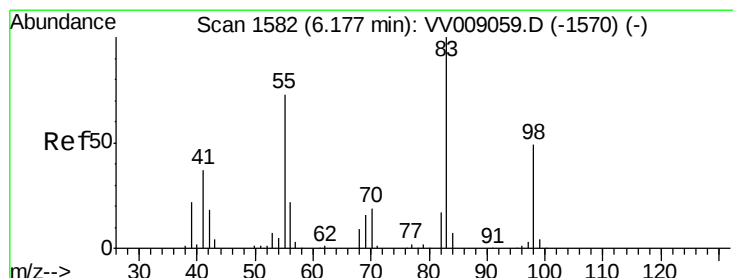
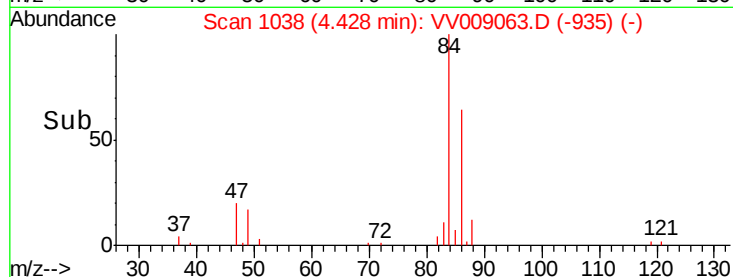
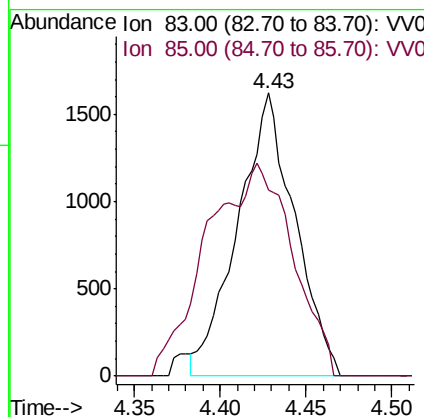
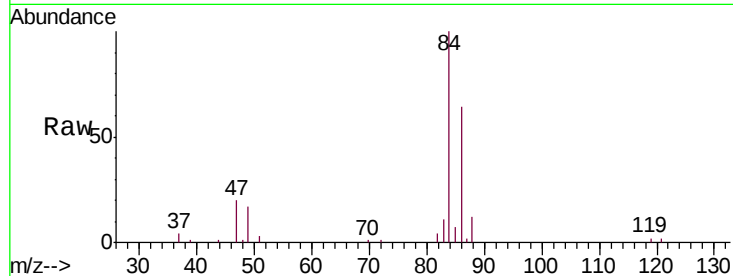




#25  
Chloroform  
Concen: 0.695 ug/L  
RT: 4.43 min Scan# 1038  
Delta R.T. 0.00 min  
Lab File: VV009063.D  
Acq: 19 Dec 2018 22:19

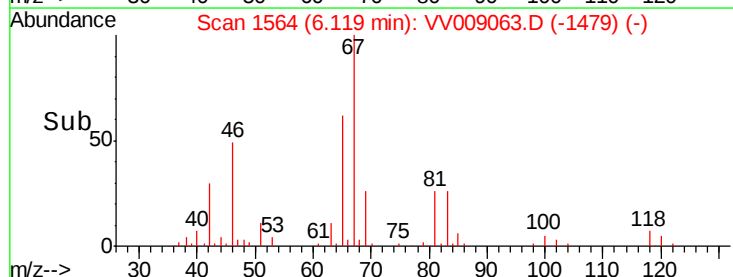
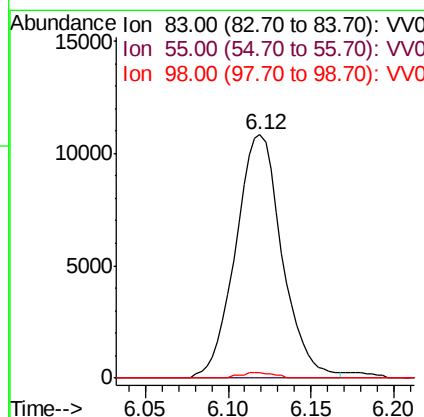
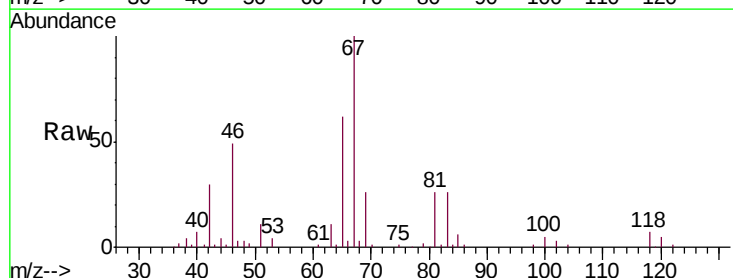
Instrument :  
MSVOA\_V  
ClientSampleId :  
F9H12

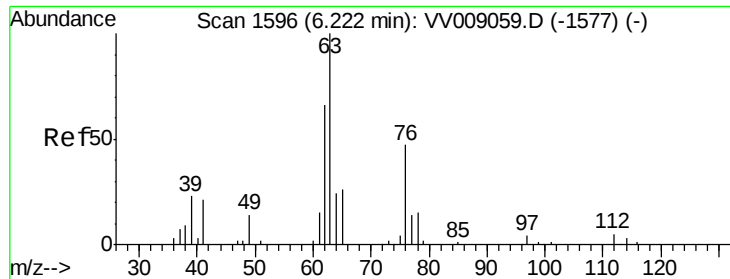
Tgt Ion: 83 Resp: 3728  
Ion Ratio Lower Upper  
83 100  
85 7.7 45.6 84.8#



#36  
Methylcyclohexane  
Concen: 3.722 ug/L  
RT: 6.12 min Scan# 1564  
Delta R.T. -0.06 min  
Lab File: VV009063.D  
Acq: 19 Dec 2018 22:19

Tgt Ion: 83 Resp: 21166  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.2 87.2#  
98 1.6 37.8 56.8#

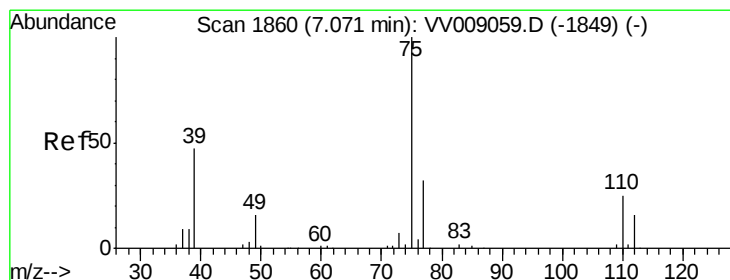
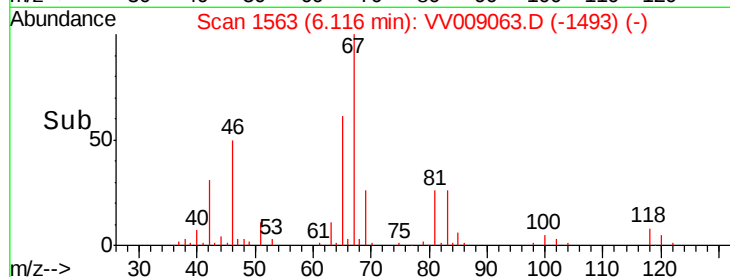
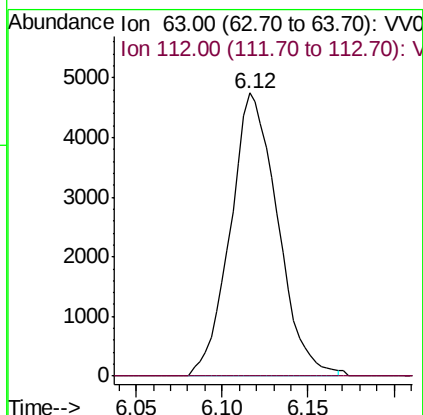
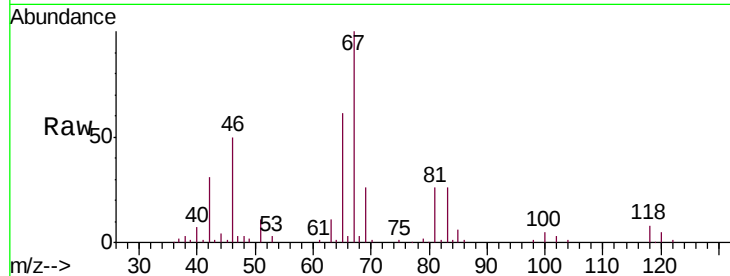




#40  
 1,2-Dichloropropane  
 Concen: 3.198 ug/L  
 RT: 6.12 min Scan# 1563  
 Delta R.T. -0.11 min  
 Lab File: VV009063.D  
 Acq: 19 Dec 2018 22:19

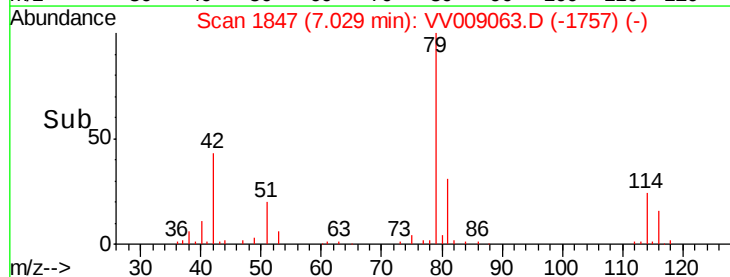
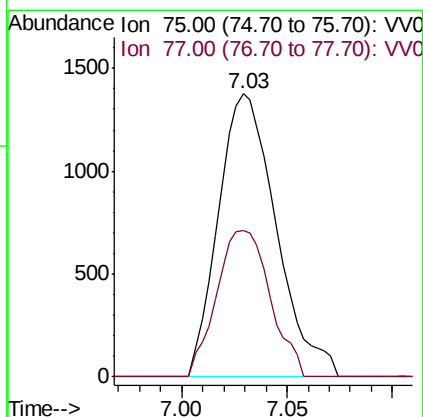
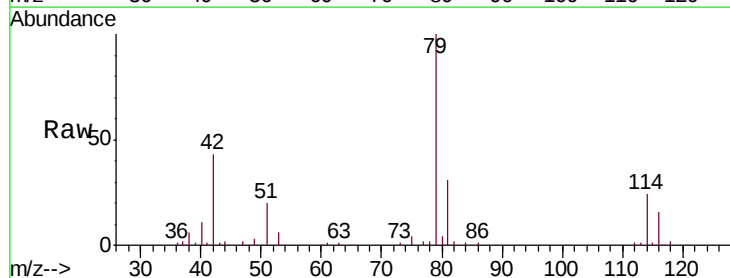
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 F9H12

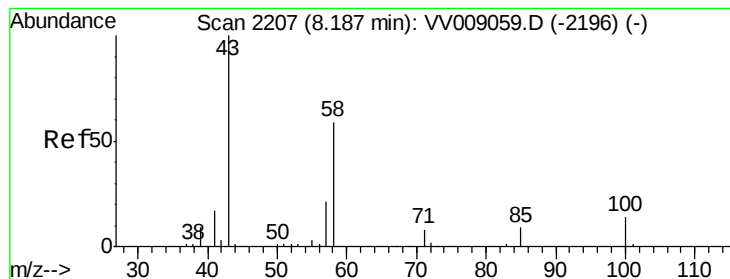
Tgt Ion: 63 Resp: 9077  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.8 5.8#



#42  
 cis-1,3-Dichloropropene  
 Concen: 0.631 ug/L  
 RT: 7.03 min Scan# 1847  
 Delta R.T. -0.04 min  
 Lab File: VV009063.D  
 Acq: 19 Dec 2018 22:19

Tgt Ion: 75 Resp: 2621  
 Ion Ratio Lower Upper  
 75 100  
 77 51.9 21.3 39.6#





#49

2-Hexanone

Concen: 2.461 ug/L

RT: 8.19 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VV009063.D

Acq: 19 Dec 2018 22:19

Instrument :

MSVOA\_V

ClientSampleId :

F9H12

Tgt Ion: 43 Resp: 3906

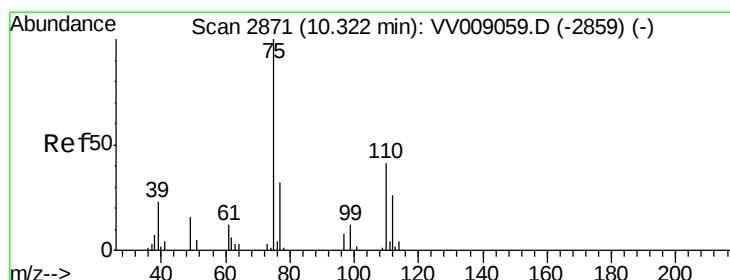
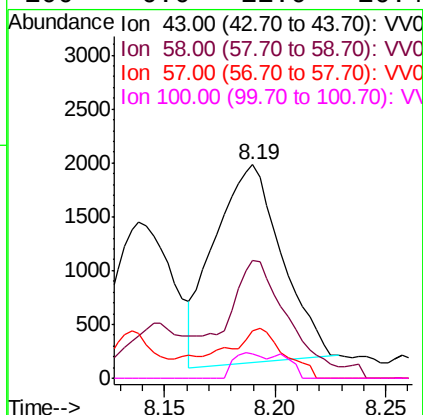
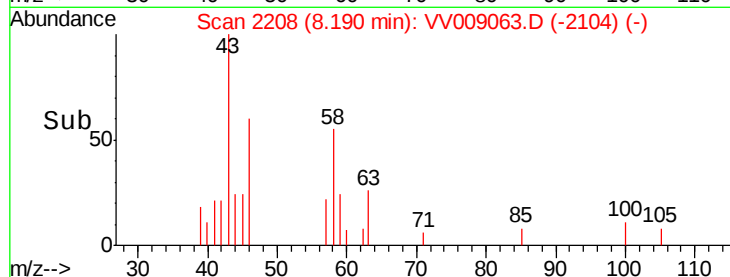
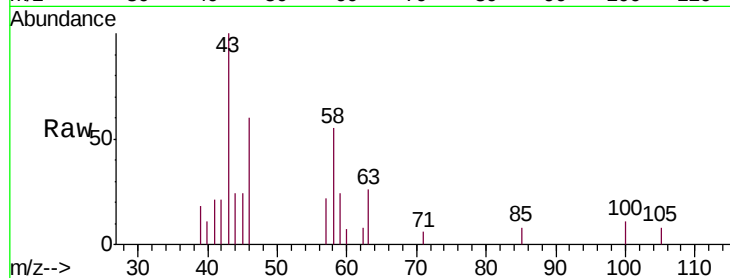
Ion Ratio Lower Upper

43 100

58 47.9 43.9 65.9

57 15.5 15.7 23.5#

100 6.0 11.0 16.4#



#59

1,2,3-Trichloropropane

Concen: 4.179 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.97 min

Lab File: VV009063.D

Acq: 19 Dec 2018 22:19

Tgt Ion: 75 Resp: 9245

Ion Ratio Lower Upper

75 100

77 38.3 25.6 38.4

