

Data File : VV010067.D  
Acq On : 02 Apr 2019 19:47  
Operator : SY/MD  
Sample : K2148-01  
Misc : 5.58G/10mL/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF5F4

Quant Time: Apr 03 06:49:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Apr 03 06:44:57 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 138512   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 124792   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 37080    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 21943    | 11.83    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 47.32%   |
| 7) Chloroethane-d5             | 1.58   | 69    | 52015    | 22.58    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 90.32%   |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 48512    | 10.37    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 41.48%#  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 15727    | 29.80    | ug/L | 0.02     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 59.60%   |
| 24) Chloroform-d               | 4.40   | 84    | 91028    | 26.09    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 104.36%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 58284    | 29.85    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 119.40%  |
| 29) Benzene-d6                 | 5.10   | 84    | 165638   | 25.59    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 102.36%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 60623    | 31.74    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 126.96%# |
| 37) Toluene-d8                 | 7.36   | 98    | 138906   | 22.28    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 89.12%   |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 13174    | 16.14    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 64.56%   |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 12232    | 31.93    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 63.86%   |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 51252    | 27.21    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 108.84%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 38210    | 26.45    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 105.80%  |

#### Target Compounds

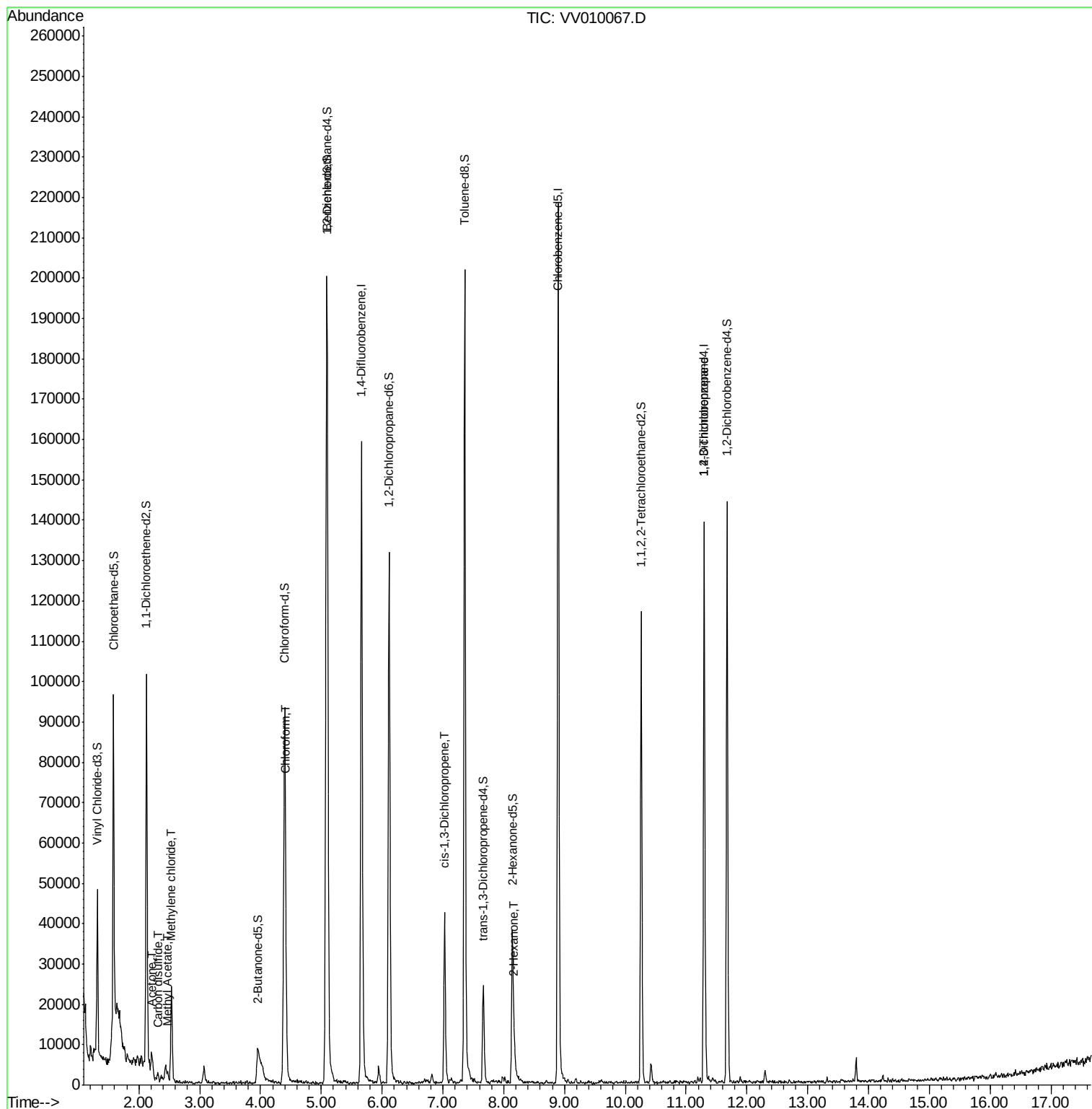
|                             |       |    |       |              | Qvalue |
|-----------------------------|-------|----|-------|--------------|--------|
| 13) Acetone                 | 2.21  | 43 | 8191  | 15.701 ug/L  | 91     |
| 14) Carbon disulfide        | 2.32  | 76 | 1836  | 0.467 ug/L # | 76     |
| 15) Methyl Acetate          | 2.47  | 43 | 1031  | 1.235 ug/L # | 83     |
| 16) Methylene chloride      | 2.54  | 84 | 10504 | 4.316 ug/L   | 96     |
| 25) Chloroform              | 4.42  | 83 | 2311  | 0.734 ug/L # | 48     |
| 42) cis-1,3-Dichloropropene | 7.03  | 75 | 1326  | 0.594 ug/L # | 79     |
| 49) 2-Hexanone              | 8.18  | 43 | 4654  | 5.711 ug/L # | 42     |
| 59) 1,2,3-Trichloropropane  | 11.30 | 75 | 5710  | 4.535 ug/L   | 96     |

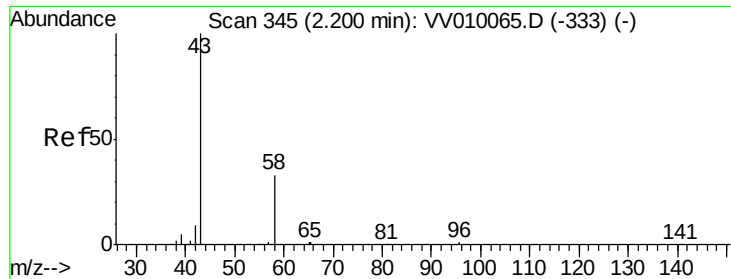
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 15.701 ug/L

RT: 2.21 min Scan# 349

Delta R.T. 0.01 min

Lab File: VV010067.D

Acq: 02 Apr 2019 19:47

Instrument :

MSVOA\_V

ClientSampleId :

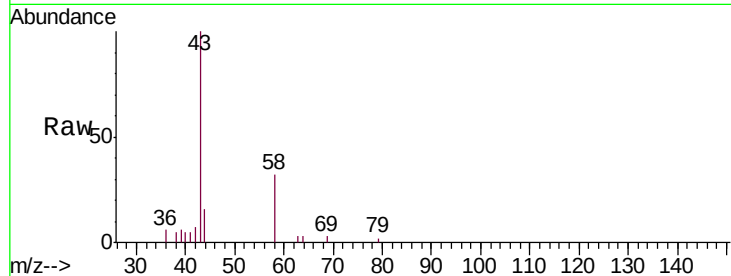
BF5F4

Tgt Ion: 43 Resp: 8191

Ion Ratio Lower Upper

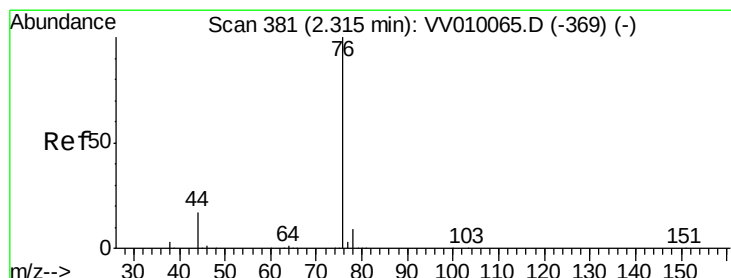
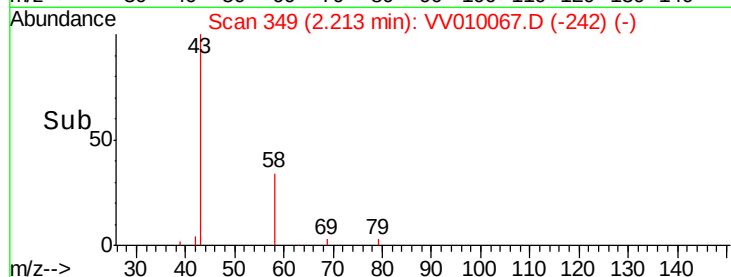
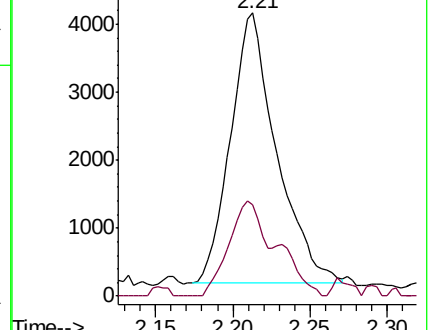
43 100

58 27.0 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV010065.D (-333) (-)

Ion 58.00 (57.70 to 58.70): VV010065.D (-333) (-)



#14

Carbon disulfide

Concen: 0.467 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV010067.D

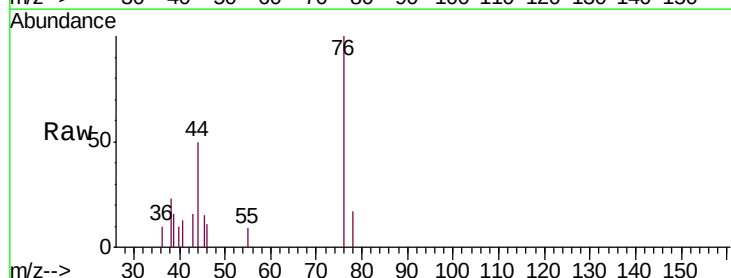
Acq: 02 Apr 2019 19:47

Tgt Ion: 76 Resp: 1836

Ion Ratio Lower Upper

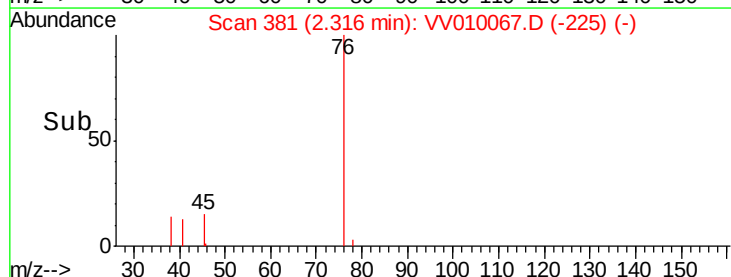
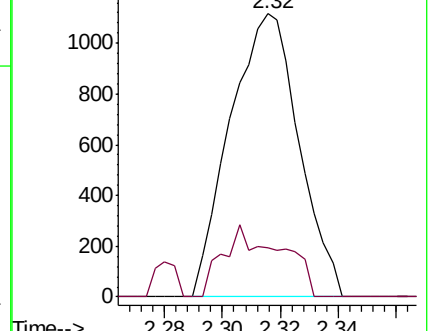
76 100

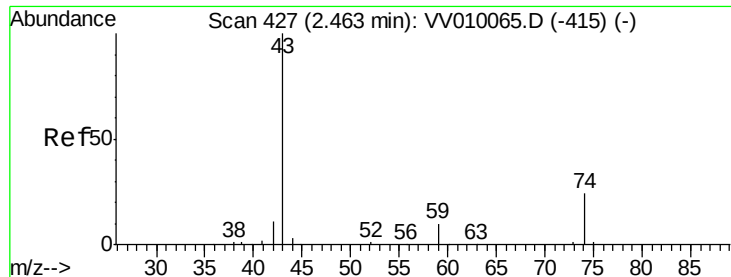
78 17.4 7.1 10.7#



Abundance Ion 76.00 (75.70 to 76.70): VV010065.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV010065.D (-369) (-)

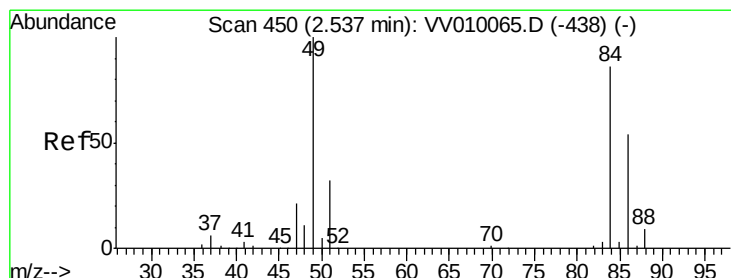
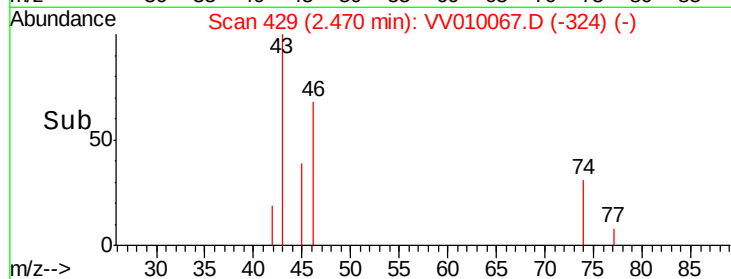
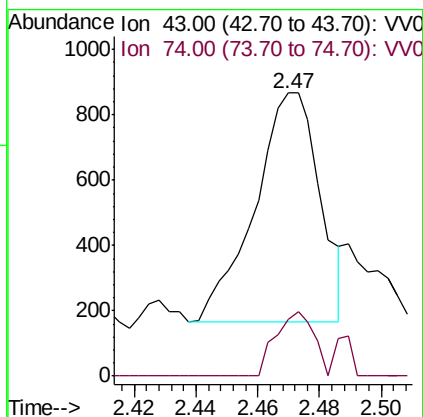
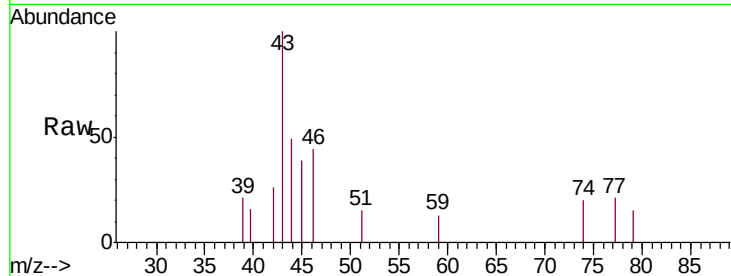




#15  
Methyl Acetate  
Concen: 1.235 ug/L  
RT: 2.47 min Scan# 429  
Delta R.T. 0.01 min  
Lab File: VV010067.D  
Acq: 02 Apr 2019 19:47

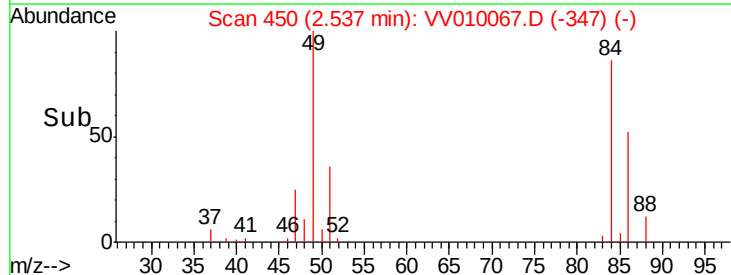
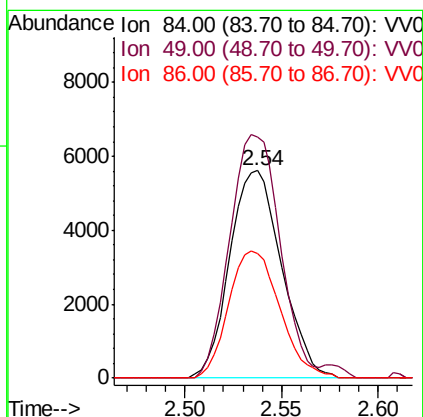
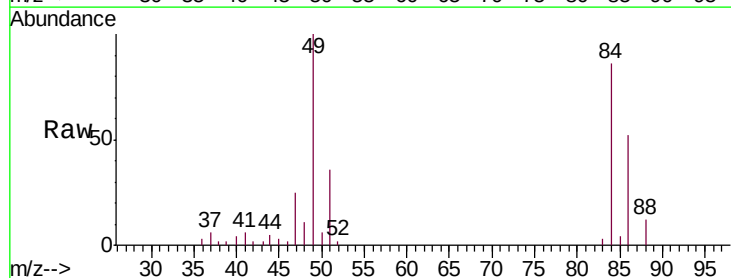
Instrument :  
MSVOA\_V  
ClientSampled :  
BF5F4

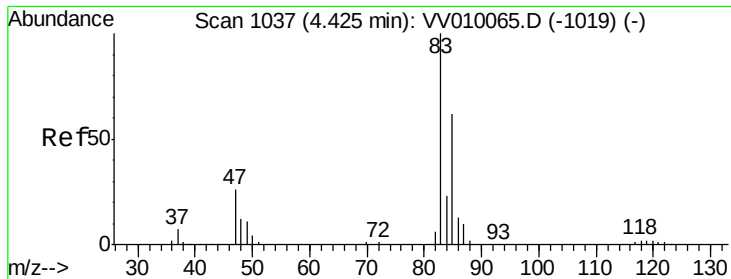
Tgt Ion: 43 Resp: 1031  
Ion Ratio Lower Upper  
43 100  
74 16.4 20.0 30.0#



#16  
Methylene chloride  
Concen: 4.316 ug/L  
RT: 2.54 min Scan# 450  
Delta R.T. 0.00 min  
Lab File: VV010067.D  
Acq: 02 Apr 2019 19:47

Tgt Ion: 84 Resp: 10504  
Ion Ratio Lower Upper  
84 100  
49 116.4 84.3 156.5  
86 60.3 45.4 84.2

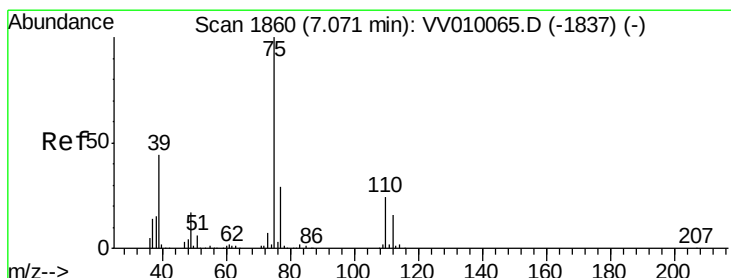
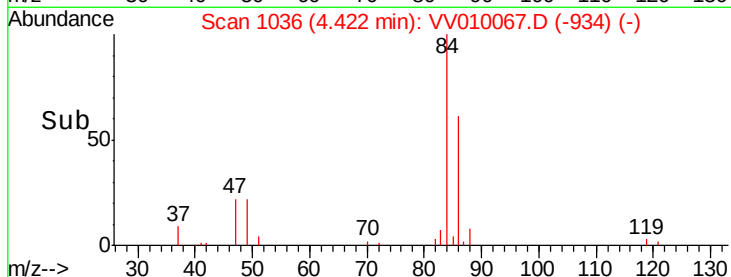
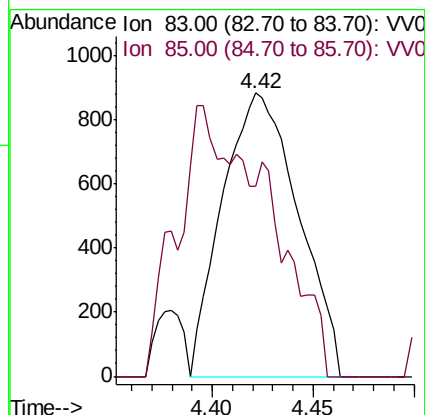
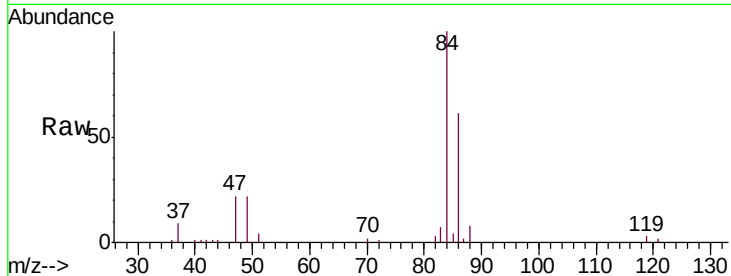




#25  
Chloroform  
Concen: 0.734 ug/L  
RT: 4.42 min Scan# 1036  
Delta R.T. -0.00 min  
Lab File: VV010067.D  
Acq: 02 Apr 2019 19:47

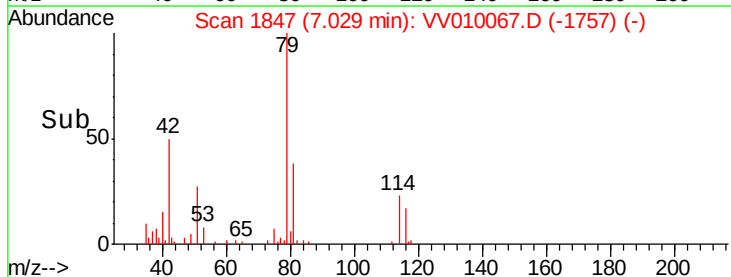
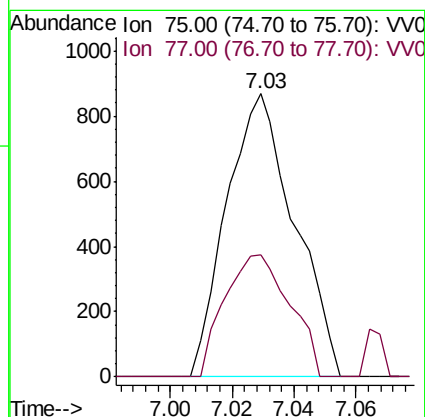
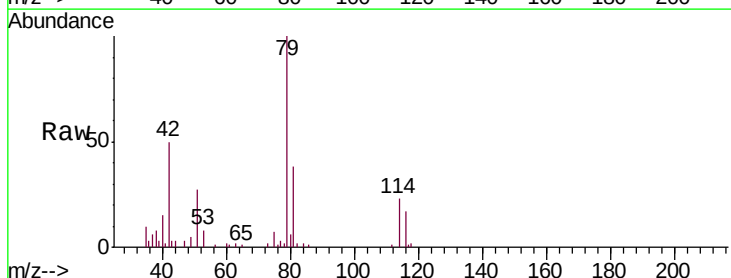
Instrument :  
MSVOA\_V  
ClientSampled :  
BF5F4

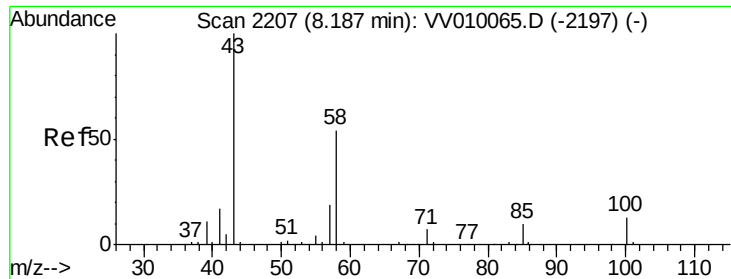
Tgt Ion: 83 Resp: 2311  
Ion Ratio Lower Upper  
83 100  
85 24.8 46.4 86.2#



#42  
cis-1,3-Dichloropropene  
Concen: 0.594 ug/L  
RT: 7.03 min Scan# 1847  
Delta R.T. -0.04 min  
Lab File: VV010067.D  
Acq: 02 Apr 2019 19:47

Tgt Ion: 75 Resp: 1326  
Ion Ratio Lower Upper  
75 100  
77 43.0 22.1 41.1#

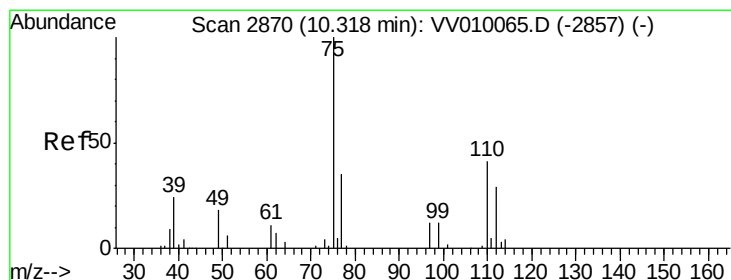
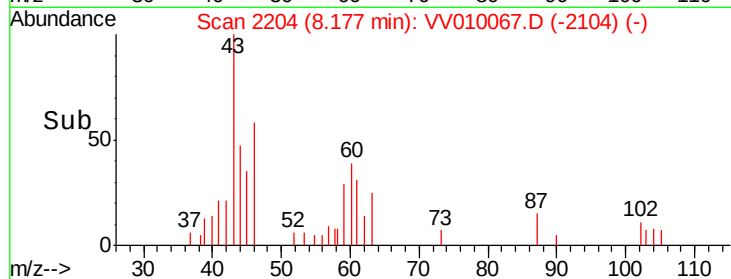
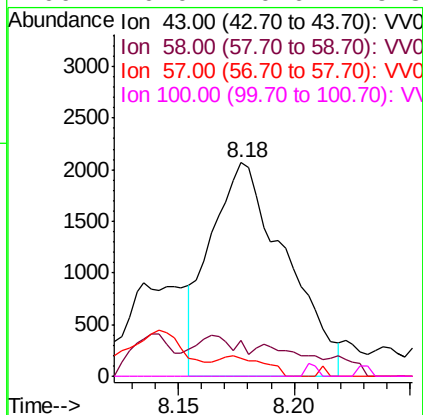
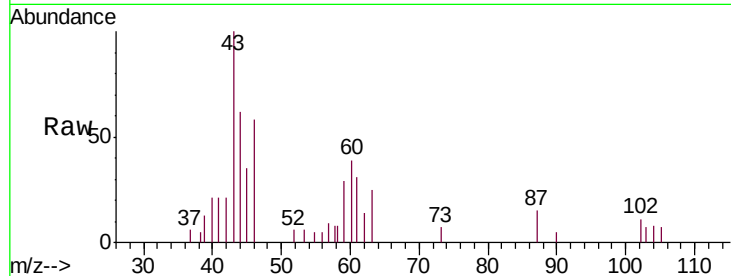




#49  
2-Hexanone  
Concen: 5.711 ug/L  
RT: 8.18 min Scan# 2204  
Delta R.T. -0.01 min  
Lab File: VV010067.D  
Acq: 02 Apr 2019 19:47

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF5F4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4654  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 2.3   | 44.3  | 66.5# |
| 57       | 5.6   | 13.8  | 20.8# |
| 100      | 0.0   | 10.6  | 15.8# |



#59  
1,2,3-Trichloropropane  
Concen: 4.535 ug/L  
RT: 11.30 min Scan# 3174  
Delta R.T. 0.98 min  
Lab File: VV010067.D  
Acq: 02 Apr 2019 19:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 5710  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 34.6  | 25.8  | 38.8  |

