

Data File : VV010077.D  
 Acq On : 03 Apr 2019 00:08  
 Operator : SY/MD  
 Sample : K2148-14  
 Misc : 5.40G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF5G1

Quant Time: Apr 03 06:51:29 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     | 5.67  | 114  | 99769    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 84137    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 21694    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 17851    | 13.37    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 53.48%   |
| 7) Chloroethane-d5             | 1.58   | 69    | 33074    | 19.94    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 79.76%   |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 40809    | 12.11    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 48.44%   |
| 20) 2-Butanone-d5              | 3.95   | 46    | 41511    | 109.22   | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 218.44%# |
| 24) Chloroform-d               | 4.40   | 84    | 79806    | 31.75    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 127.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 53718    | 38.20    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 152.80%# |
| 29) Benzene-d6                 | 5.10   | 84    | 140172   | 32.13    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 128.52%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 55484    | 43.09    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 172.36%# |
| 37) Toluene-d8                 | 7.36   | 98    | 109529   | 26.05    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 104.20%  |
| 38) trans-1,3-Dichloropropene- | 7.67   | 79    | 6902     | 12.54    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 50.16%   |
| 39) 2-Hexanone-d5              | 8.14   | 63    | 22816    | 88.35    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 176.70%# |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 56146    | 44.21    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 176.84%# |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 27862    | 32.97    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 131.88%# |

#### Target Compounds

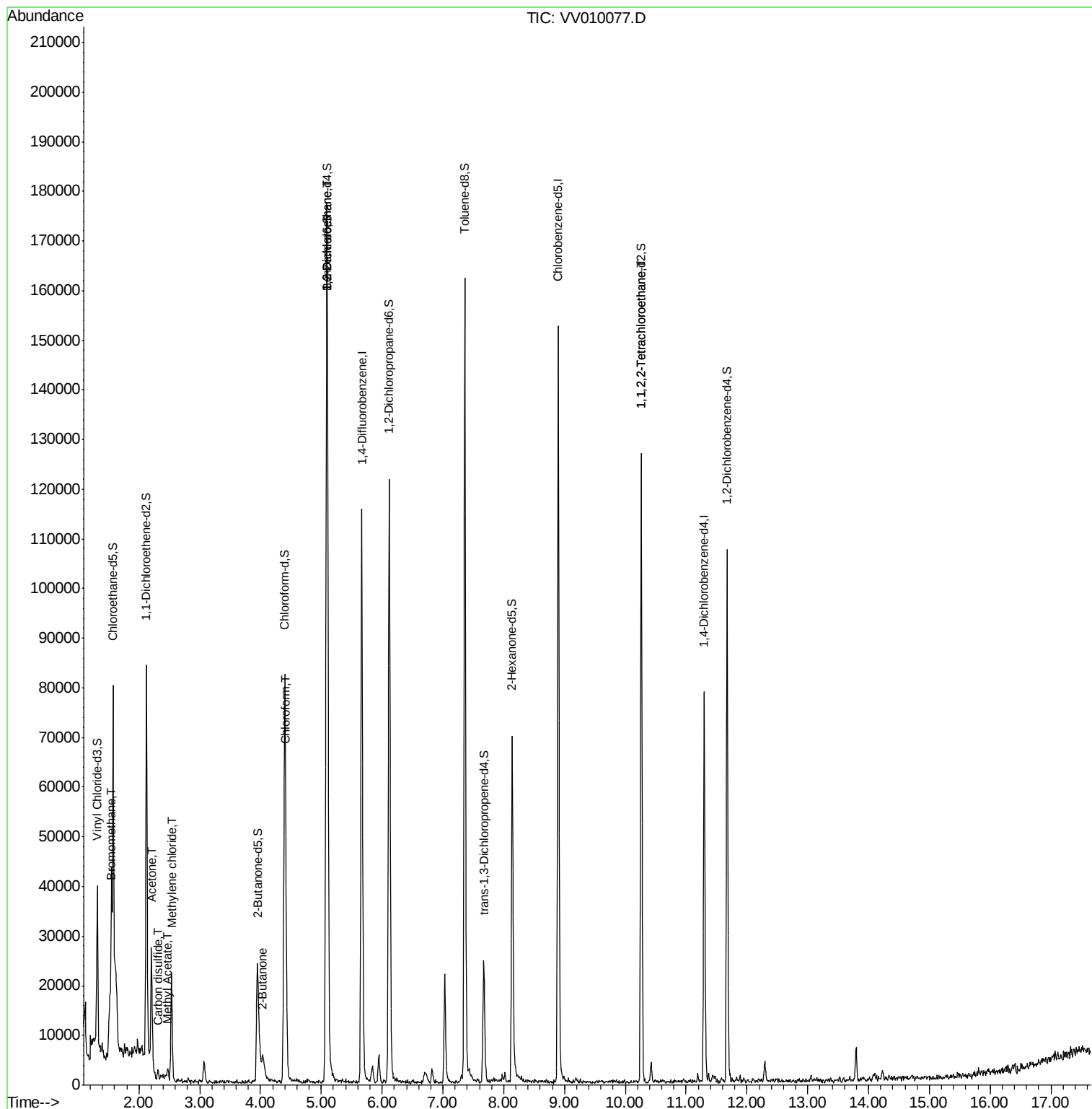
|                               |       |    |       |              | Qvalue |
|-------------------------------|-------|----|-------|--------------|--------|
| 6) Bromomethane               | 1.53  | 94 | 1193  | 0.753 ug/L   | 17     |
| 13) Acetone                   | 2.21  | 43 | 30015 | 79.876 ug/L  | 98     |
| 14) Carbon disulfide          | 2.32  | 76 | 1445  | 0.510 ug/L # | 75     |
| 15) Methyl Acetate            | 2.47  | 43 | 1745  | 2.902 ug/L # | 78     |
| 16) Methylene chloride        | 2.54  | 84 | 9405  | 5.365 ug/L   | 89     |
| 21) 2-Butanone                | 4.04  | 43 | 5140  | 12.490 ug/L  | 83     |
| 25) Chloroform                | 4.42  | 83 | 1945  | 0.857 ug/L   | 94     |
| 27) 1,2-Dichloroethane        | 5.10  | 62 | 777   | 0.502 ug/L # | 75     |
| 58) 1,1,2,2-Tetrachloroethane | 10.26 | 83 | 435   | 0.367 ug/L # | 1      |

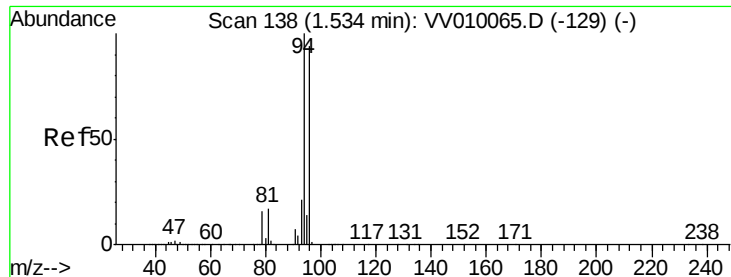
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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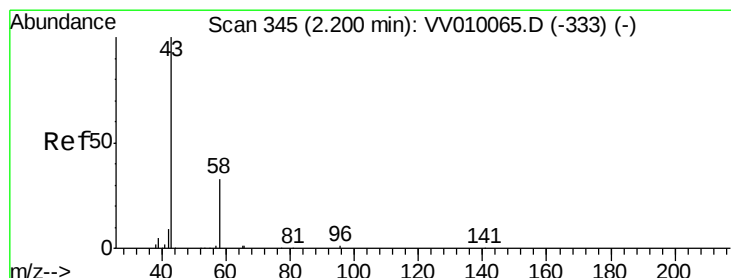
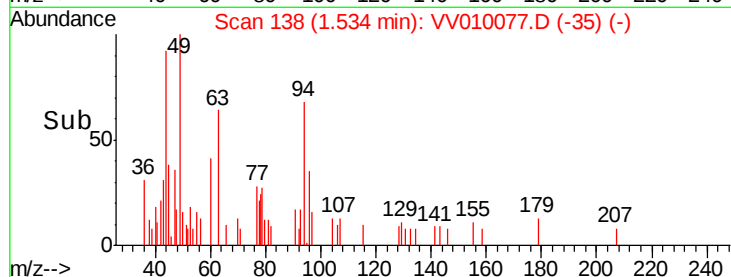
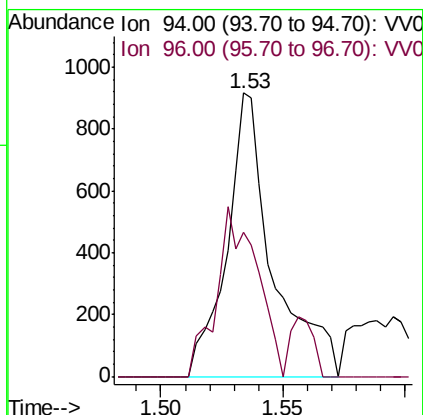
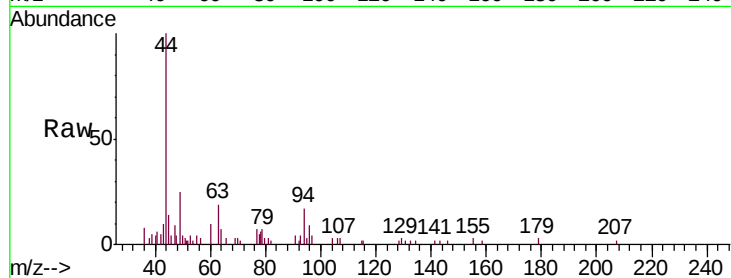




#6  
 Bromomethane  
 Concen: 0.753 ug/L  
 RT: 1.53 min Scan# 138  
 Delta R.T. -0.00 min  
 Lab File: VV010077.D  
 Acq: 03 Apr 2019 00:08

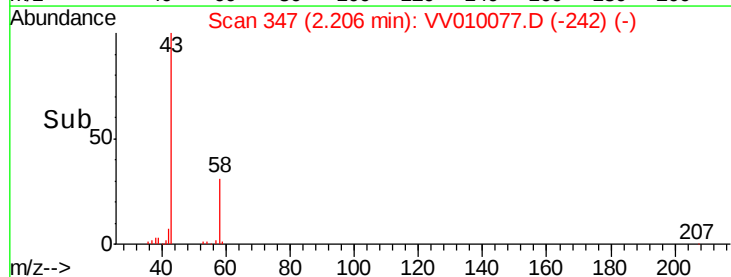
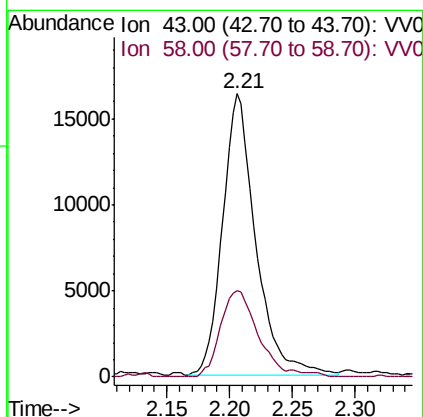
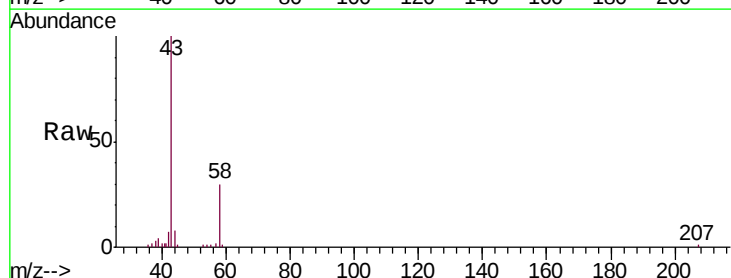
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF5G1

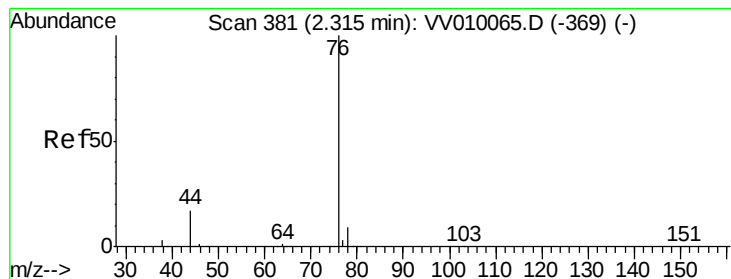
Tgt Ion: 94 Resp: 1193  
 Ion Ratio Lower Upper  
 94 100  
 96 13.8 9.4 177.8



#13  
 Acetone  
 Concen: 79.876 ug/L  
 RT: 2.21 min Scan# 347  
 Delta R.T. 0.01 min  
 Lab File: VV010077.D  
 Acq: 03 Apr 2019 00:08

Tgt Ion: 43 Resp: 30015  
 Ion Ratio Lower Upper  
 43 100  
 58 33.6 0.0 64.6





#14

Carbon disulfide

Concen: 0.510 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV010077.D

Acq: 03 Apr 2019 00:08

Instrument :

MSVOA\_V

ClientSampled :

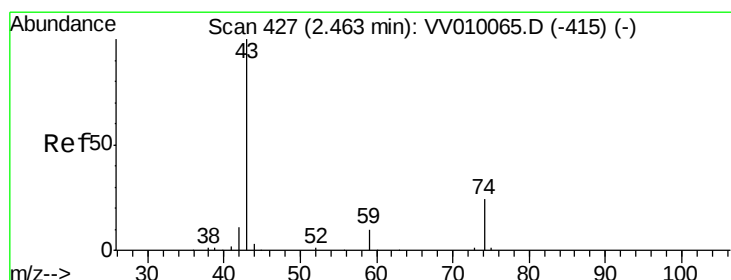
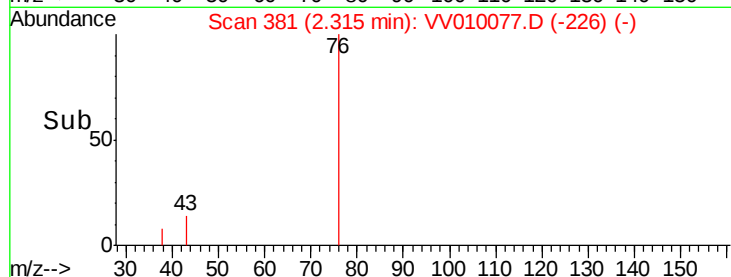
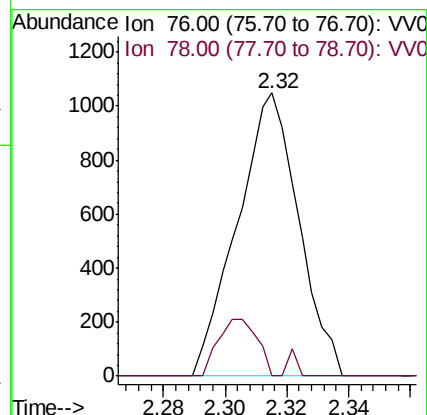
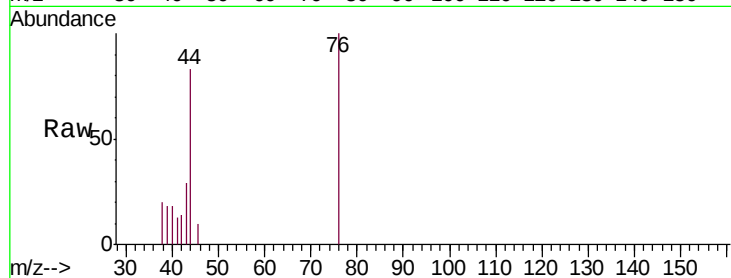
BF5G1

Tgt Ion: 76 Resp: 1445

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#15

Methyl Acetate

Concen: 2.902 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.01 min

Lab File: VV010077.D

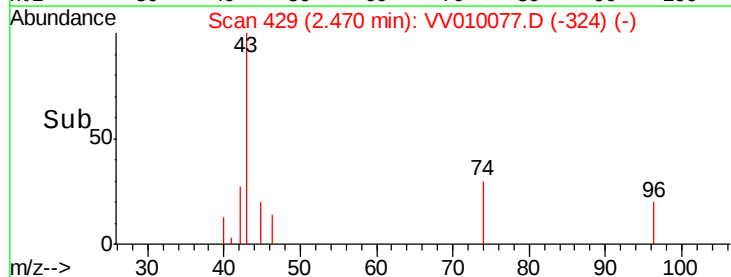
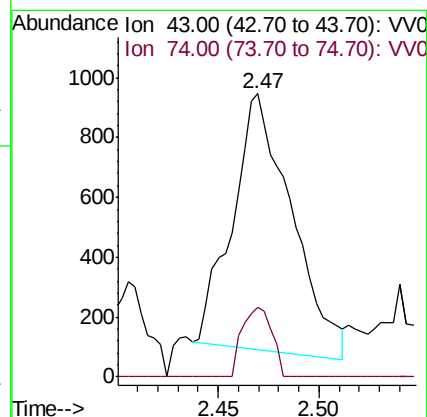
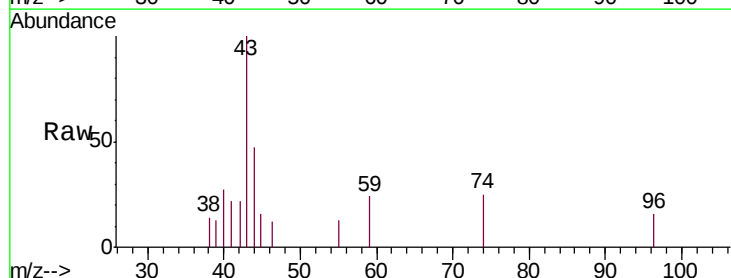
Acq: 03 Apr 2019 00:08

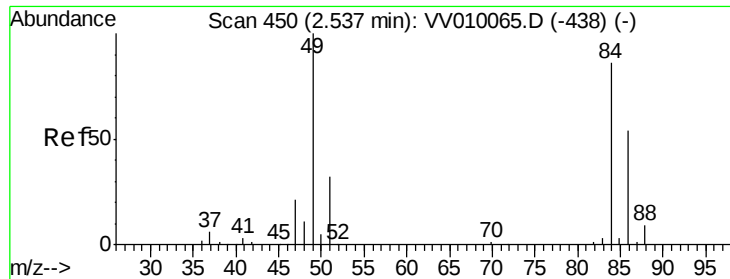
Tgt Ion: 43 Resp: 1745

Ion Ratio Lower Upper

43 100

74 13.9 20.0 30.0#

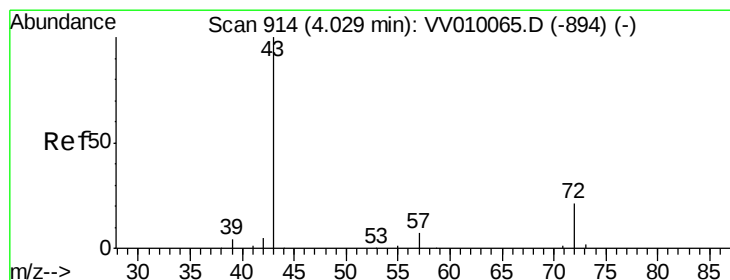
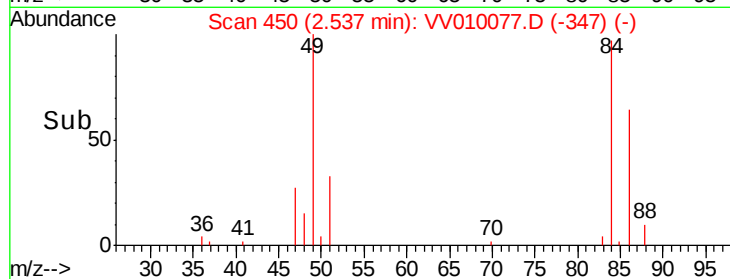
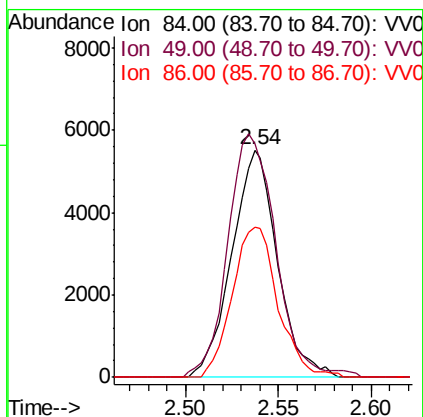
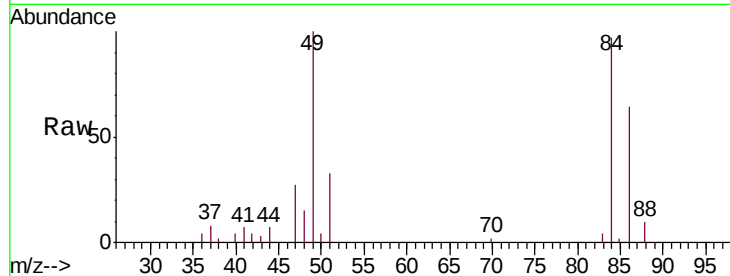




#16  
Methylene chloride  
Concen: 5.365 ug/L  
RT: 2.54 min Scan# 450  
Delta R.T. -0.00 min  
Lab File: VV010077.D  
Acq: 03 Apr 2019 00:08

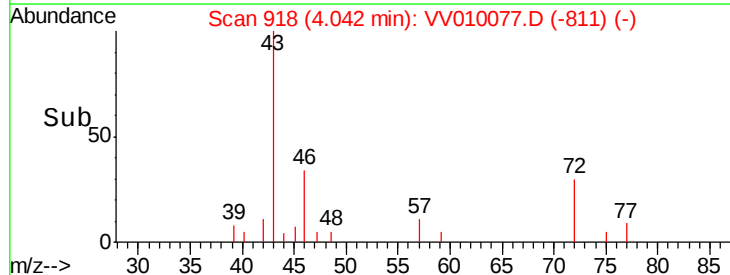
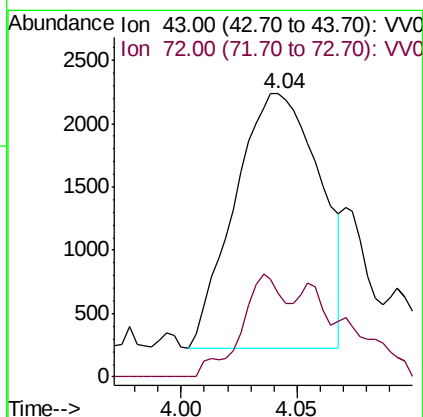
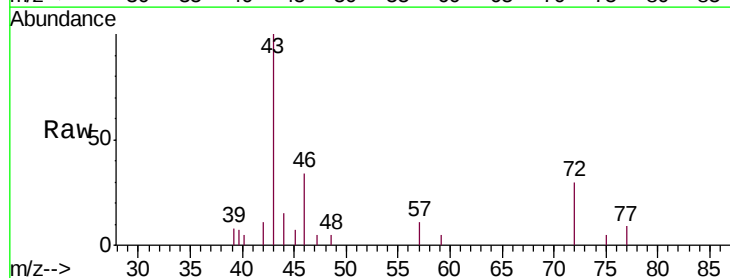
Instrument :  
MSVOA\_V  
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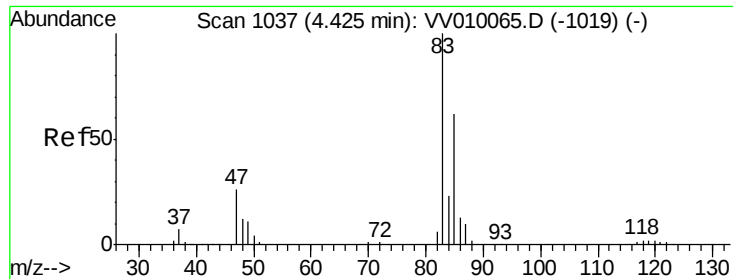
Tgt Ion: 84 Resp: 9405  
Ion Ratio Lower Upper  
84 100  
49 102.8 84.3 156.5  
86 66.0 45.4 84.2



#21  
2-Butanone  
Concen: 12.490 ug/L  
RT: 4.04 min Scan# 918  
Delta R.T. 0.01 min  
Lab File: VV010077.D  
Acq: 03 Apr 2019 00:08

Tgt Ion: 43 Resp: 5140  
Ion Ratio Lower Upper  
43 100  
72 17.1 12.8 38.4

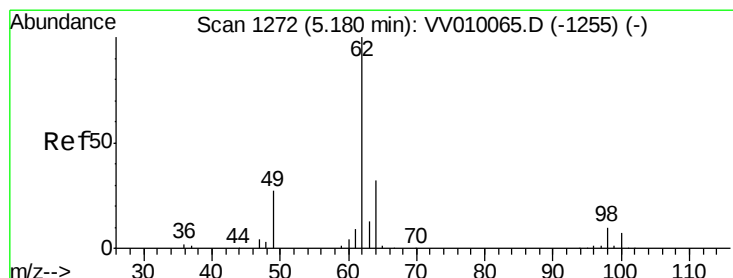
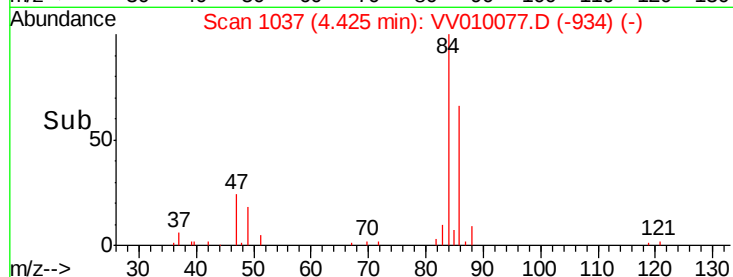
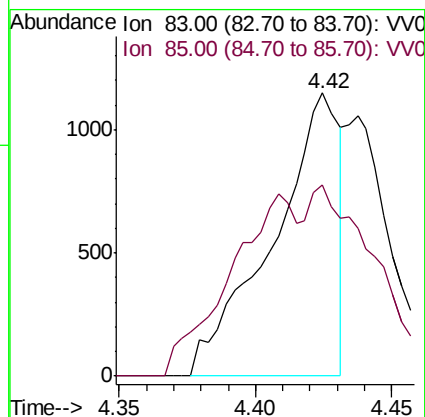
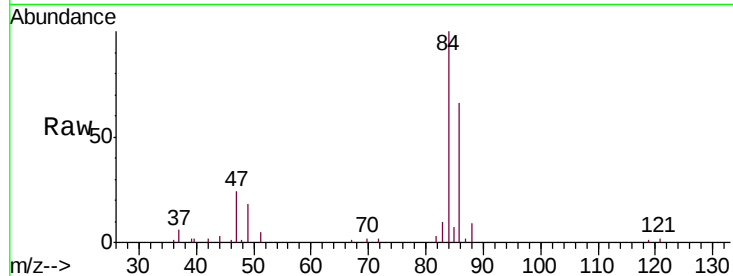




#25  
Chloroform  
Concen: 0.857 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. -0.00 min  
Lab File: VV010077.D  
Acq: 03 Apr 2019 00:08

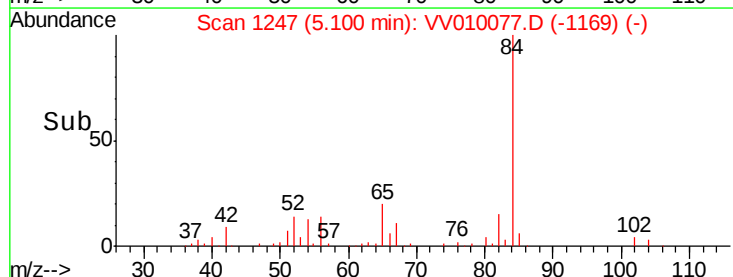
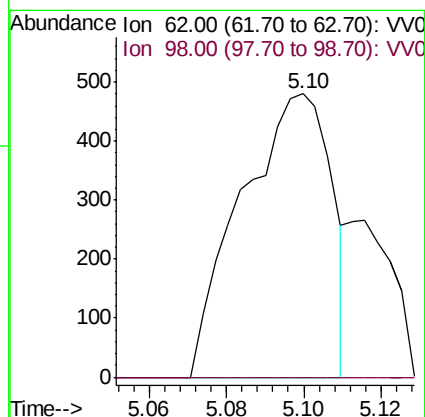
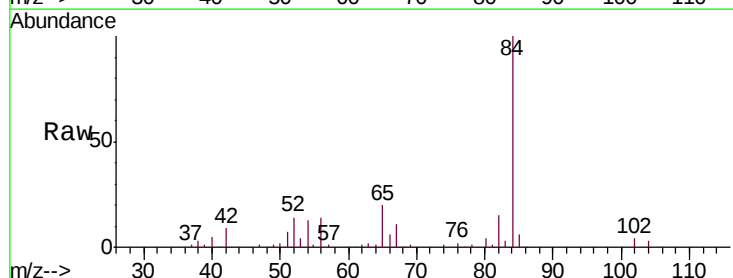
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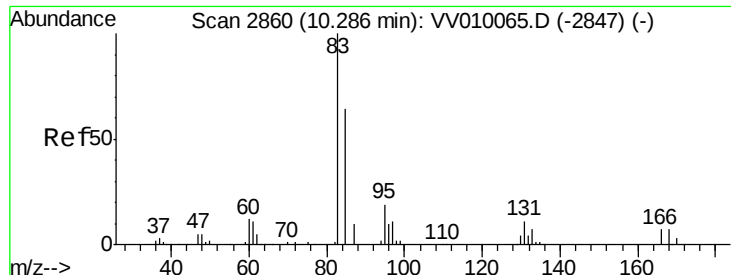
Tgt Ion: 83 Resp: 1945  
Ion Ratio Lower Upper  
83 100  
85 70.8 46.4 86.2



#27  
1,2-Dichloroethane  
Concen: 0.502 ug/L  
RT: 5.10 min Scan# 1247  
Delta R.T. -0.08 min  
Lab File: VV010077.D  
Acq: 03 Apr 2019 00:08

Tgt Ion: 62 Resp: 777  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.2 10.8#





#58  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.367 ug/L  
 RT: 10.26 min Scan# 2853  
 Delta R.T. -0.02 min  
 Lab File: VV010077.D  
 Acq: 03 Apr 2019 00:08

Instrument :  
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Tgt Ion: 83 Resp: 435  
 Ion Ratio Lower Upper  
 83 100  
 85 171.8 46.1 85.7#  
 131 232.0 9.0 13.4#

