

Data Path : Z:\voasrv\HPCHEM1\MSVOA V\Data\VV040819\  
 Data File : VV010197.D  
 Acq On : 09 Apr 2019 01:56  
 Operator : SY/MD  
 Sample : K2254-11  
 Misc : 5.11G/10mL/MSVOA V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFC31

Quant Time: Apr 19 23:14:09 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM040219S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 09 07:35:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 250926   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 190778   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 58910    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 53384    | 15.89    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 63.56%  |
| 7) Chloroethane-d5             | 1.56   | 69    | 71619    | 17.16    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 68.64%  |
| 10) 1,1-Dichloroethene-d2      | 2.12   | 63    | 109995   | 12.98    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 51.92%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 53313    | 55.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 111.54% |
| 24) Chloroform-d               | 4.40   | 84    | 128960   | 20.40    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 81.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 83271    | 23.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 94.16%  |
| 29) Benzene-d6                 | 5.10   | 84    | 254583   | 25.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 102.92% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 81134    | 27.79    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 111.16% |
| 37) Toluene-d8                 | 7.36   | 98    | 209072   | 21.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 87.72%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 23147    | 18.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 74.20%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 35224    | 60.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 120.30% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 68034    | 23.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 94.52%  |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 47129    | 20.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 82.16%  |

## Target Compounds

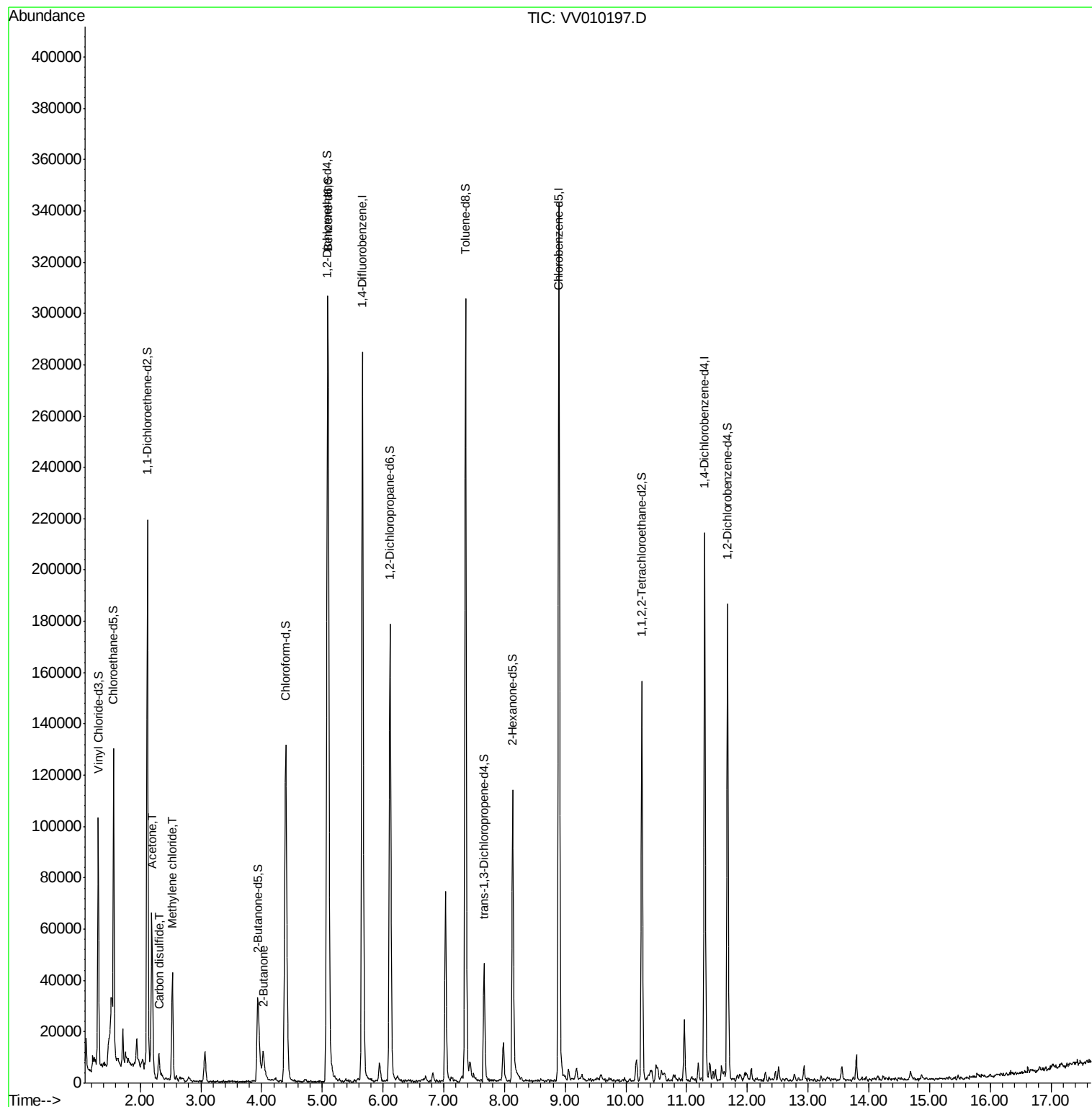
| Target Compounds       | R.T. | QIon | Response | Conc   | Units | Ovalue |
|------------------------|------|------|----------|--------|-------|--------|
| 13) Acetone            | 2.19 | 43   | 70097    | 74.170 | ug/L  | 97     |
| 14) Carbon disulfide   | 2.31 | 76   | 11282    | 1.585  | ug/L  | 99     |
| 16) Methylene chloride | 2.53 | 84   | 17661    | 4.006  | ug/L  | 91     |
| 21) 2-Butanone         | 4.03 | 43   | 16504    | 15.946 | ug/L  | 83     |

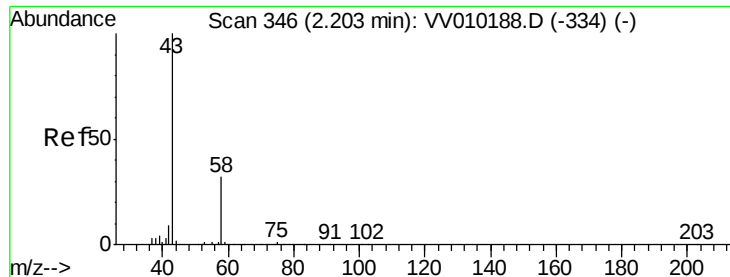
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 74.170 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.01 min

Lab File: VV010197.D

Acq: 09 Apr 2019 01:56

Instrument :

MSVOA\_V

ClientSampleId :

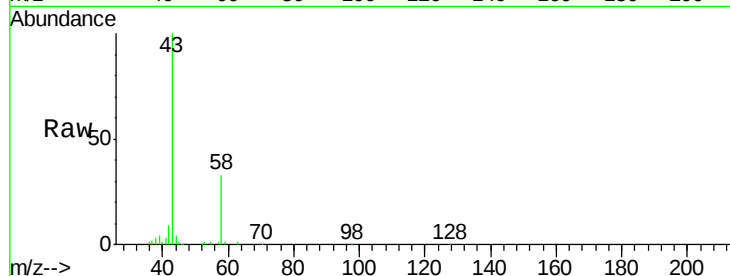
BFC31

Tot Ion: 43 Resp: 70097

Ion Ratio Lower Upper

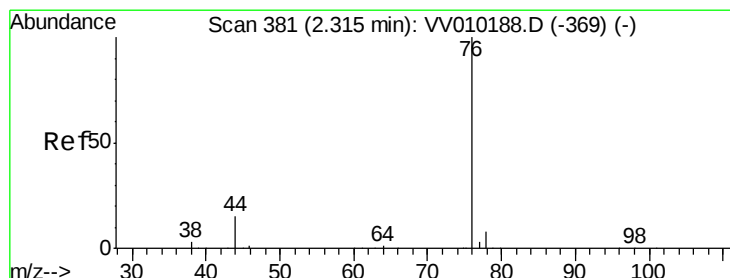
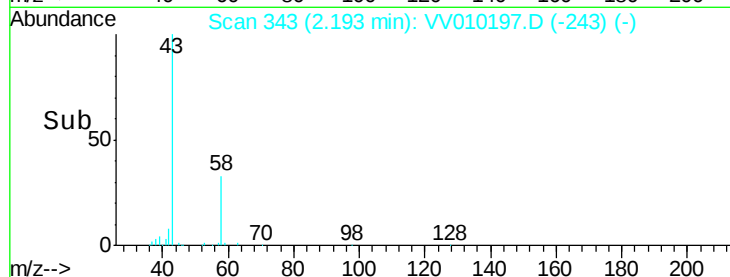
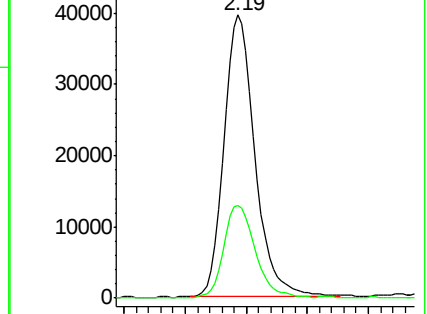
43 100

58 34.0 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV010188.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VV010188.D (-334) (-)



#14

Carbon disulfide

Concen: 1.585 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV010197.D

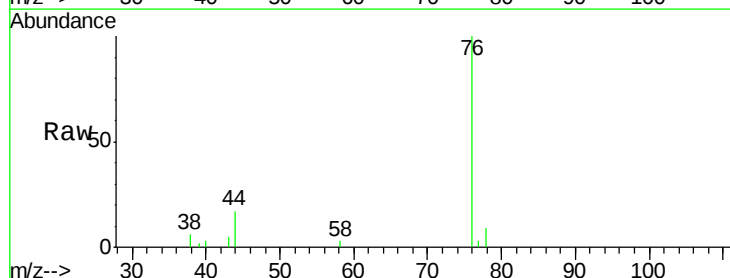
Acq: 09 Apr 2019 01:56

Tgt Ion: 76 Resp: 11282

Ion Ratio Lower Upper

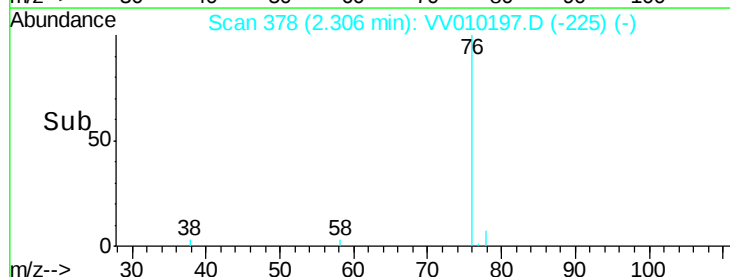
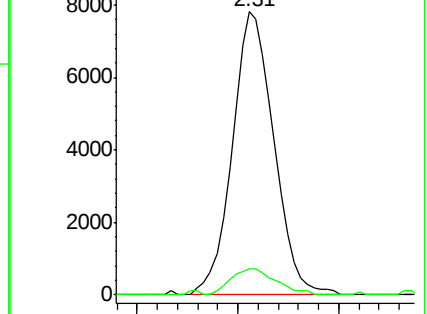
76 100

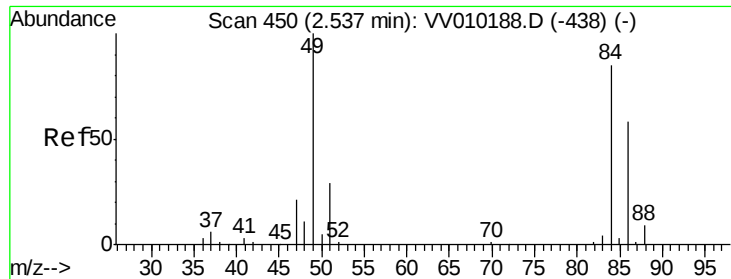
78 9.2 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV010188.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV010188.D (-369) (-)

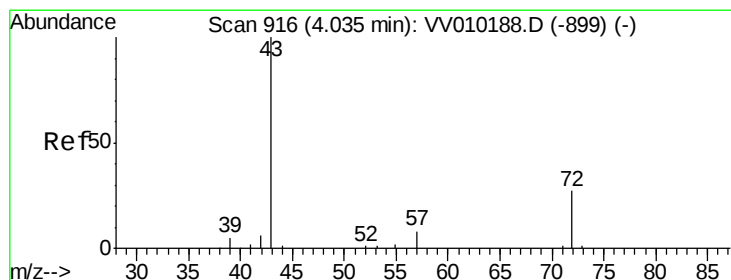
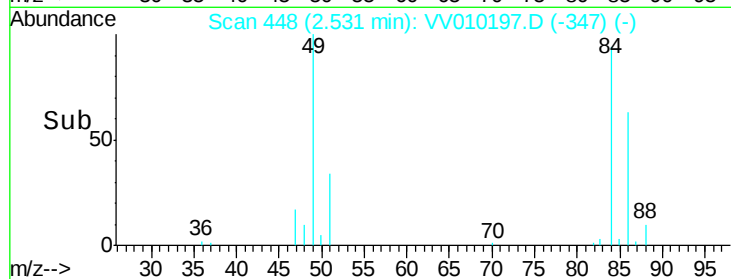
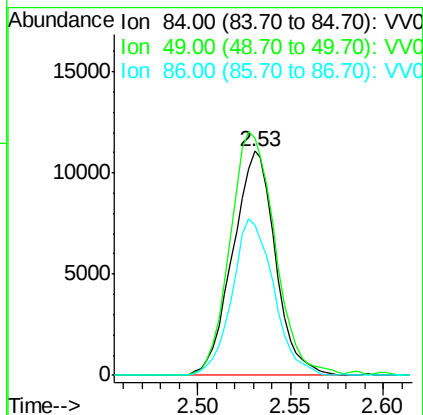
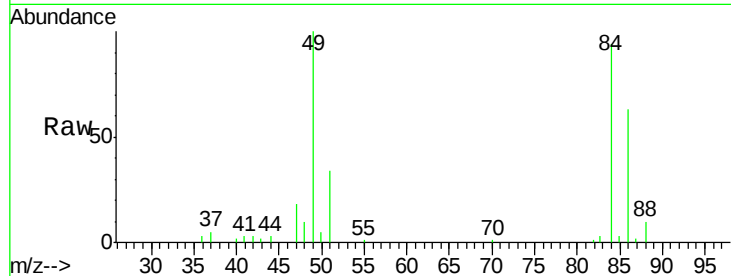




#16  
Methvlene chloride  
Concen: 4.006 ug/L  
RT: 2.53 min Scan# 448  
Delta R.T. -0.01 min  
Lab File: VV010197.D  
Acq: 09 Apr 2019 01:56

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Tot Ion: 84 Resp: 17661  
Ion Ratio Lower Upper  
84 100  
49 106.0 84.3 156.5  
86 67.0 45.4 84.2



#21  
2-Butanone  
Concen: 15.946 ug/L  
RT: 4.03 min Scan# 914  
Delta R.T. -0.01 min  
Lab File: VV010197.D  
Acq: 09 Apr 2019 01:56

Tgt Ion: 43 Resp: 16504  
Ion Ratio Lower Upper  
43 100  
72 17.0 12.8 38.4

