

Data File : VV010770.D  
Acq On : 09 May 2019 16:10  
Operator : SY/MD  
Sample : K2693-17  
Misc : 5.29G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFHF0

Quant Time: May 10 05:46:42 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM050719S.M  
Quant Title : VOC Analysis  
QLast Update : Fri May 10 05:43:08 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 42824    | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 48745    | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 16327    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 6776     | 10.18    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 40.72%   |
| 7) Chloroethane-d5             | 1.57   | 69    | 10027    | 18.32    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 73.28%   |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 14169    | 9.82     | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 39.28%#  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 13684    | 68.55    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 137.10%# |
| 24) Chloroform-d               | 4.40   | 84    | 34862    | 29.86    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 119.44%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 28176    | 38.64    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 154.56%# |
| 29) Benzene-d6                 | 5.10   | 84    | 58018    | 22.61    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 90.44%   |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 25209    | 30.84    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 123.36%# |
| 37) Toluene-d8                 | 7.36   | 98    | 50980    | 20.75    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 83.00%   |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 9624     | 25.82    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 103.28%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 9170     | 53.60    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 107.20%  |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 23633    | 30.76    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 123.04%# |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 17739    | 28.05    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 112.20%  |

#### Target Compounds

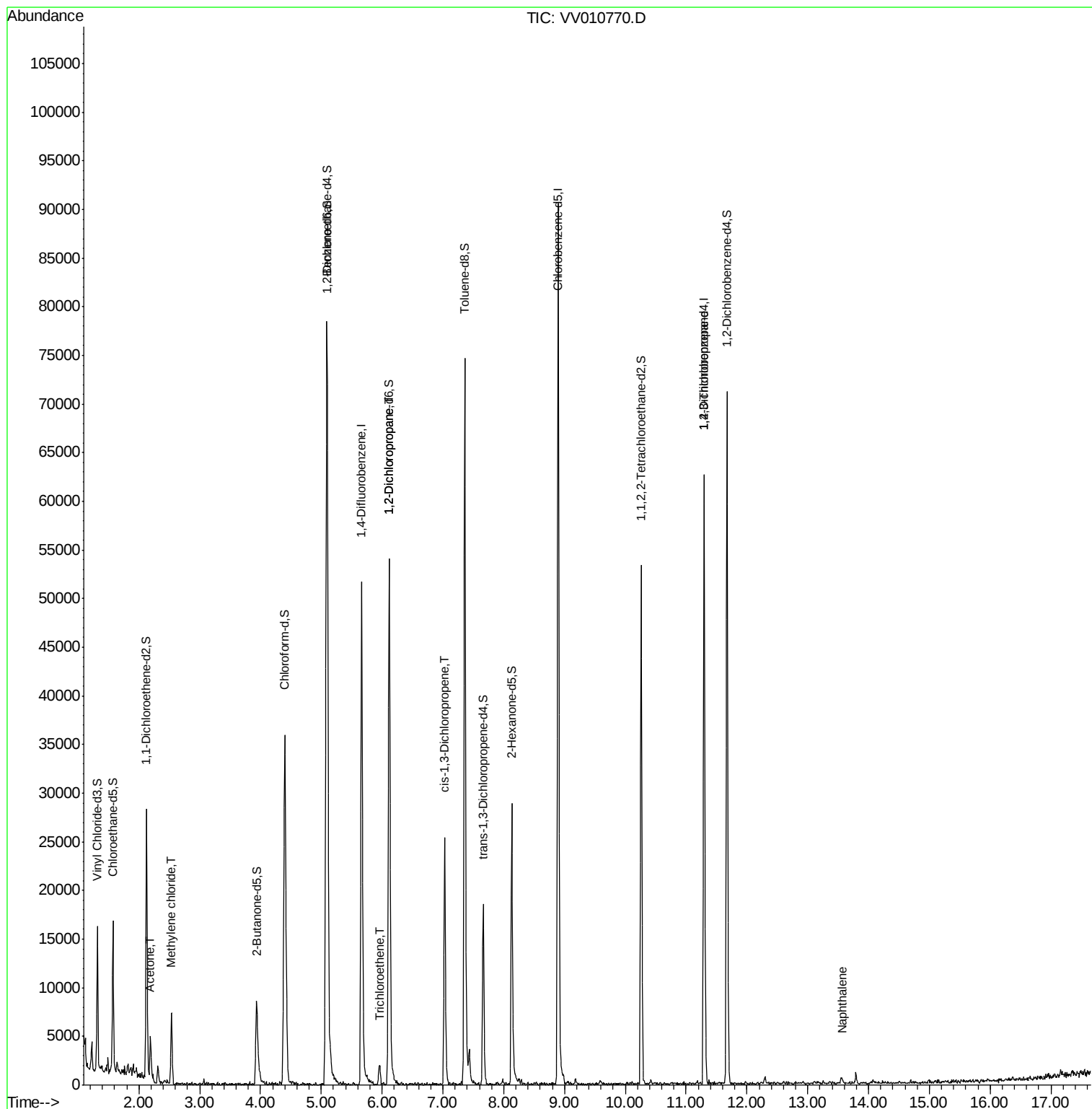
|                             |       |     |      |        |        | Qvalue |
|-----------------------------|-------|-----|------|--------|--------|--------|
| 13) Acetone                 | 2.19  | 43  | 3556 | 11.506 | ug/L   | 97     |
| 16) Methylene chloride      | 2.53  | 84  | 2671 | 4.034  | ug/L   | 95     |
| 35) Trichloroethene         | 5.96  | 95  | 604  | 0.754  | ug/L # | 42     |
| 40) 1,2-Dichloropropane     | 6.12  | 63  | 3153 | 4.142  | ug/L # | 87     |
| 42) cis-1,3-Dichloropropene | 7.03  | 75  | 806  | 0.669  | ug/L # | 75     |
| 59) 1,2,3-Trichloropropane  | 11.29 | 75  | 1122 | 1.755  | ug/L # | 35     |
| 69) Naphthalene             | 13.56 | 128 | 885  | 0.653  | ug/L # | 69     |

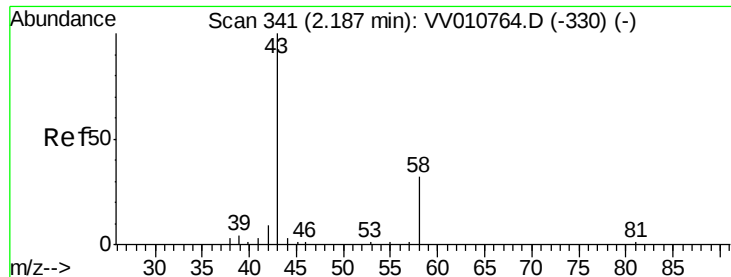
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 11.506 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV010770.D

Acq: 09 May 2019 16:10

Instrument :

MSVOA\_V

ClientSampleId :

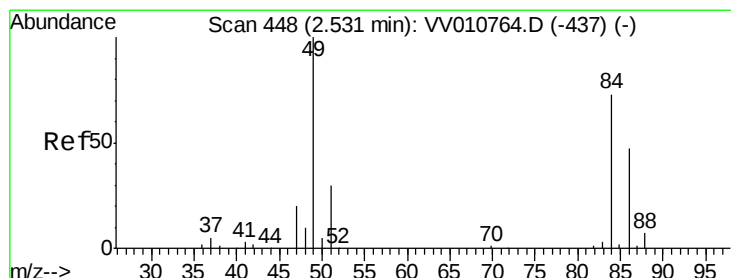
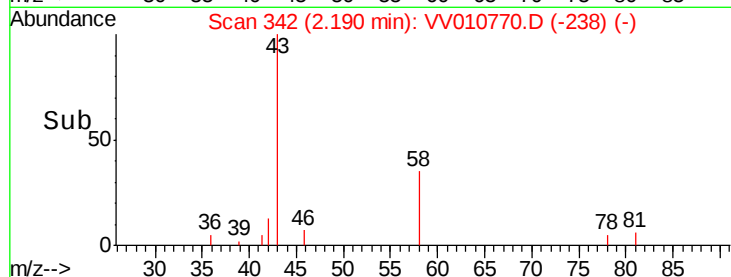
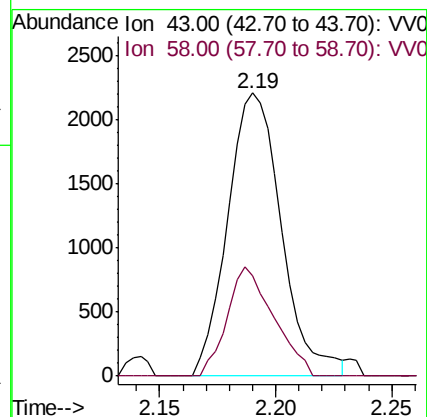
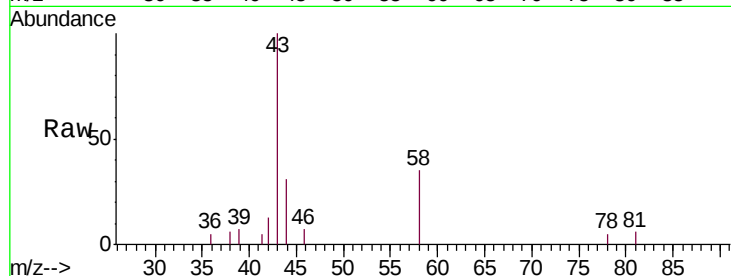
BFHF0

Tgt Ion: 43 Resp: 3556

Ion Ratio Lower Upper

43 100

58 33.2 0.0 63.4



#16

Methylene chloride

Concen: 4.034 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV010770.D

Acq: 09 May 2019 16:10

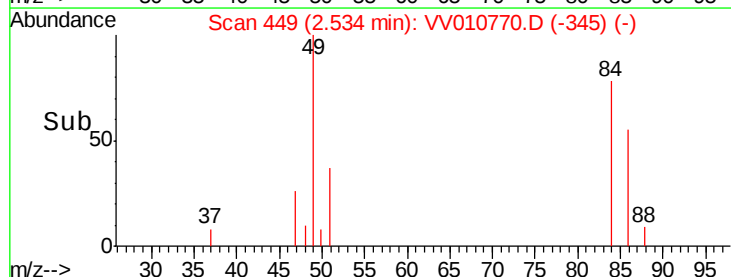
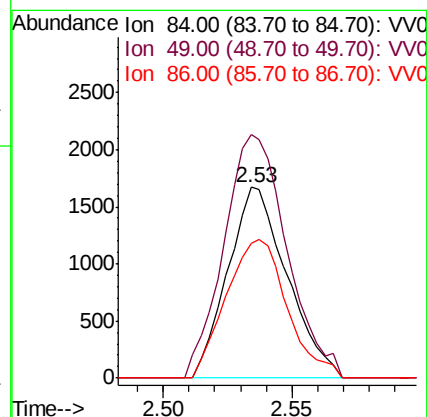
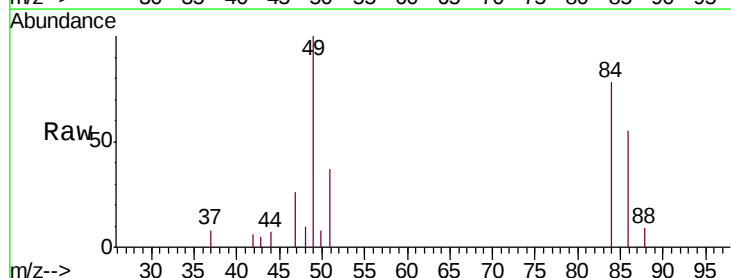
Tgt Ion: 84 Resp: 2671

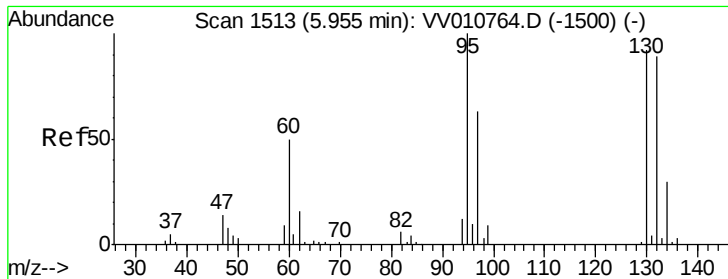
Ion Ratio Lower Upper

84 100

49 127.6 92.9 172.5

86 70.6 46.5 86.5





#35

Trichloroethene

Concen: 0.754 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.01 min

Lab File: VV010770.D

Acq: 09 May 2019 16:10

Instrument :

MSVOA\_V

ClientSampleId :

BFHF0

Tgt Ion: 95 Resp: 604

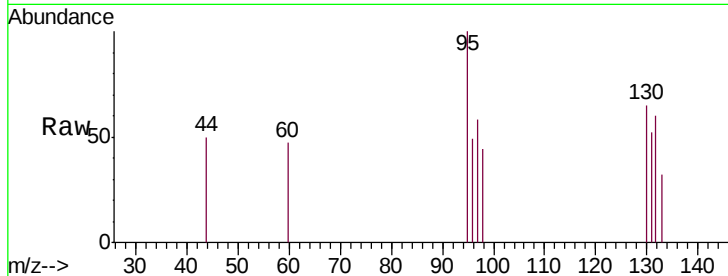
Ion Ratio Lower Upper

95 100

97 56.0 44.3 82.3

132 45.0 62.4 115.8#

130 0.0 68.5 127.3#

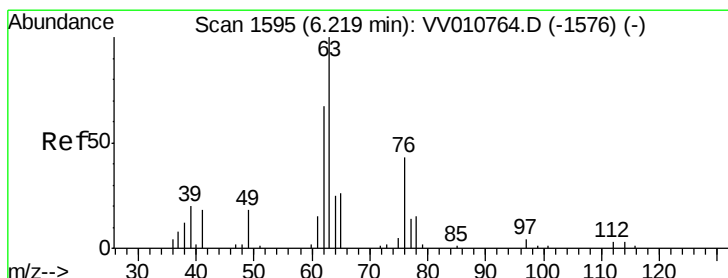
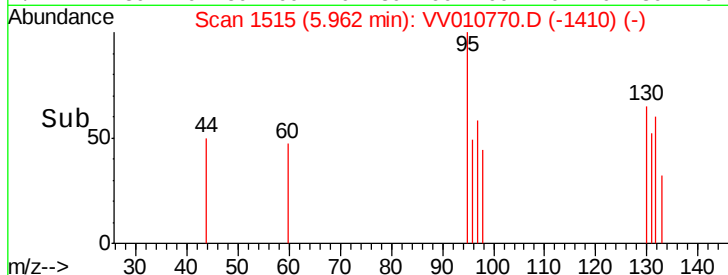
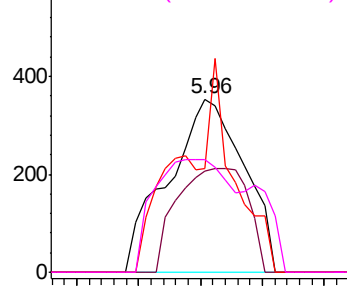


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#40

1,2-Dichloropropane

Concen: 4.142 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.10 min

Lab File: VV010770.D

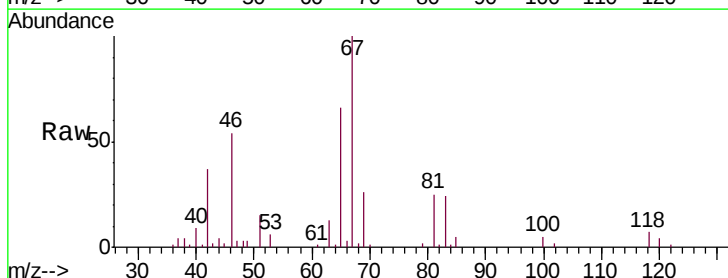
Acq: 09 May 2019 16:10

Tgt Ion: 63 Resp: 3153

Ion Ratio Lower Upper

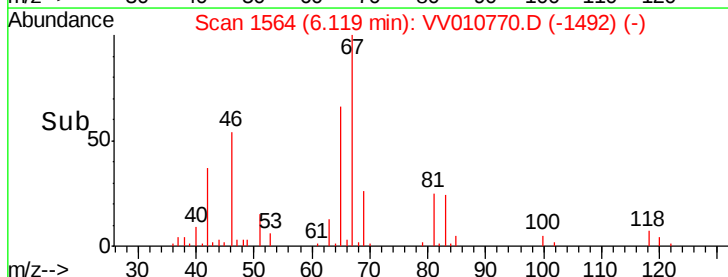
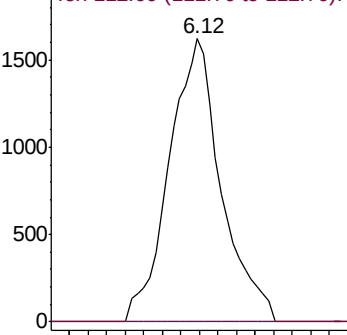
63 100

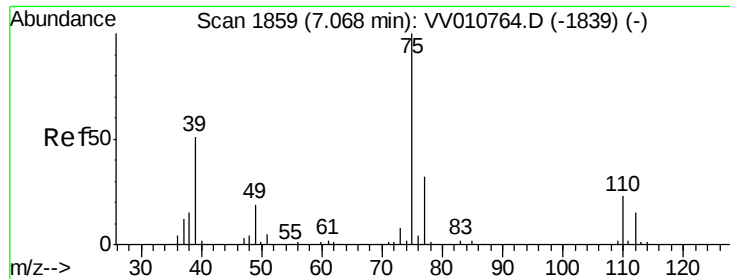
112 0.0 3.4 5.2#



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): VV0

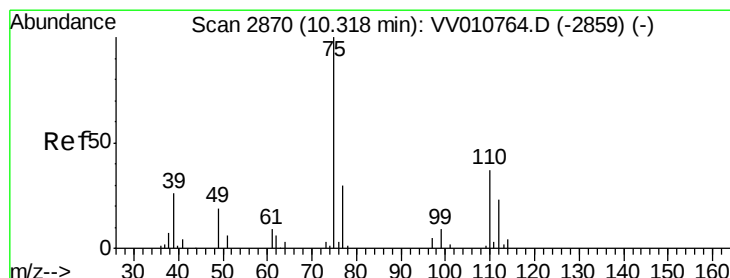
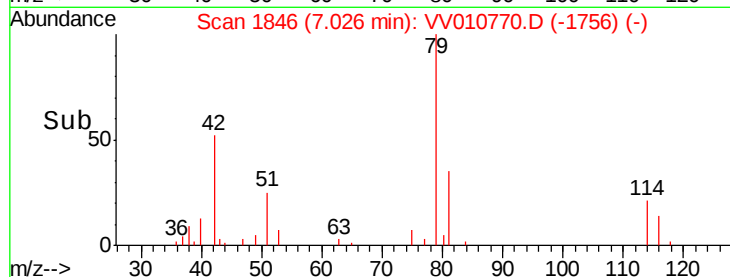
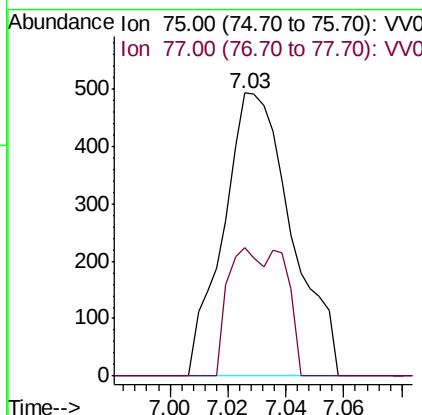
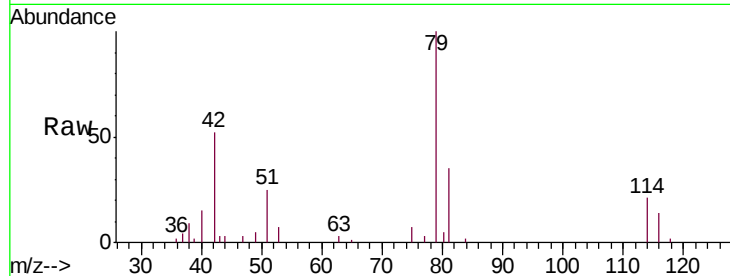




#42  
 cis-1,3-Dichloropropene  
 Concen: 0.669 ug/L  
 RT: 7.03 min Scan# 1846  
 Delta R.T. -0.04 min  
 Lab File: VV010770.D  
 Acq: 09 May 2019 16:10

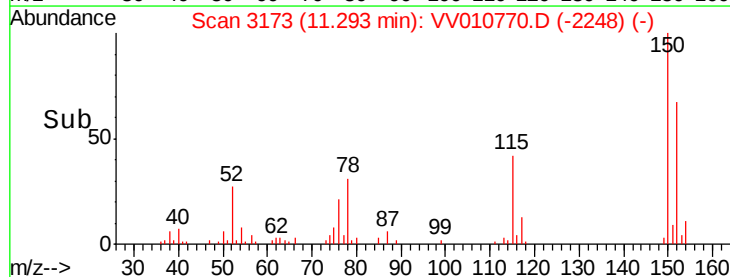
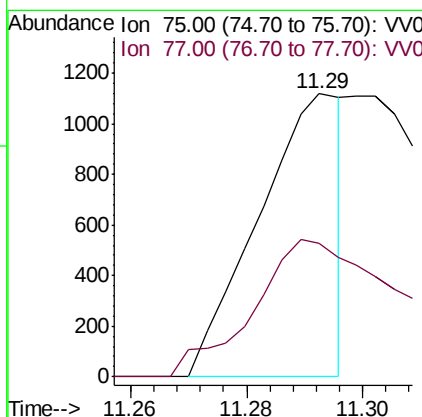
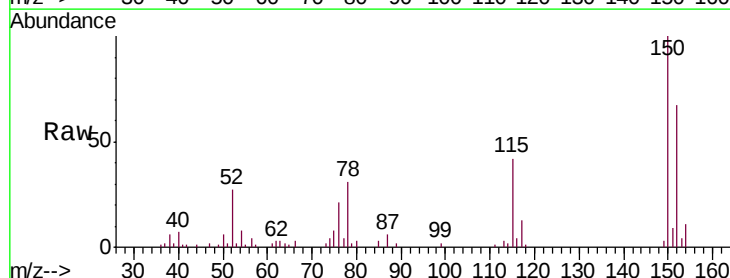
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BFHF0

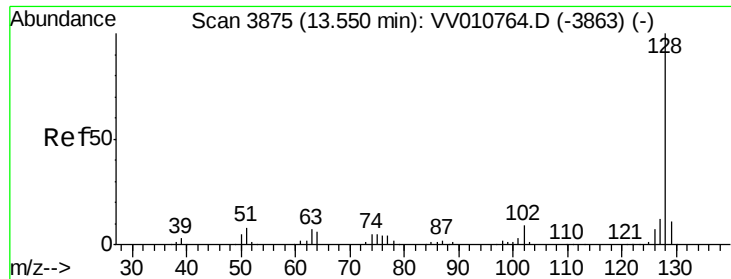
Tgt Ion: 75 Resp: 806  
 Ion Ratio Lower Upper  
 75 100  
 77 45.4 22.3 41.3#



#59  
 1,2,3-Trichloropropane  
 Concen: 1.755 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. 0.97 min  
 Lab File: VV010770.D  
 Acq: 09 May 2019 16:10

Tgt Ion: 75 Resp: 1122  
 Ion Ratio Lower Upper  
 75 100  
 77 67.3 25.0 37.6#





#69

Naphthalene

Concen: 0.653 ug/L

RT: 13.56 min Scan# 3878

Delta R.T. 0.01 min

Lab File: VV010770.D

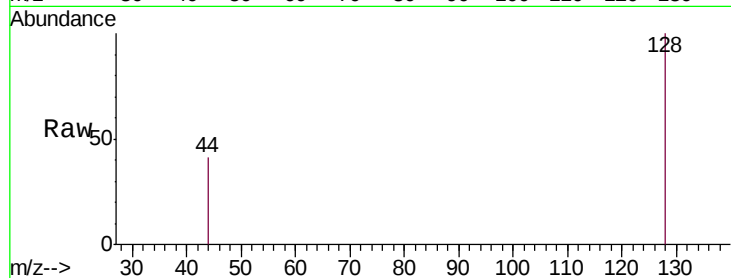
Acq: 09 May 2019 16:10

Instrument :

MSVOA\_V

ClientSampleId :

BFHF0



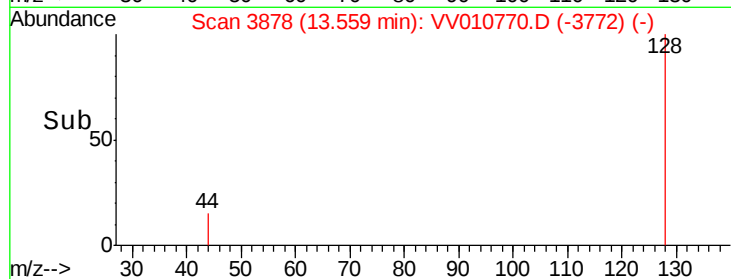
Tgt Ion:128 Resp: 885

Ion Ratio Lower Upper

128 100

129 0.0 8.3 12.5#

127 0.0 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

