

Data File : VV010642.D  
Acq On : 03 May 2019 00:26  
Operator : SY/MD  
Sample : K2603-13  
Misc : 5.10G/10ML/MSVOA\_V/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
GAJ65

Quant Time: May 03 02:26:31 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM050219S.M  
Quant Title : VOC Analysis  
QLast Update : Fri May 03 02:22:17 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 159289   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 166992   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 73880    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 31105    | 15.42    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 61.68% |
| 7) Chloroethane-d5             | 1.58   | 69    | 28159    | 19.95    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 79.80% |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 48614    | 13.75    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 55.00% |
| 20) 2-Butanone-d5              | 3.94   | 46    | 24850    | 40.50    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 81.00% |
| 24) Chloroform-d               | 4.40   | 84    | 98228    | 23.87    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.48% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 55895    | 23.71    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 94.84% |
| 29) Benzene-d6                 | 5.10   | 84    | 193546   | 22.37    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 89.48% |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 63024    | 23.77    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 95.08% |
| 37) Toluene-d8                 | 7.36   | 98    | 178201   | 21.43    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 85.72% |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 22002    | 20.08    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 80.32% |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 18436    | 39.06    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 78.12% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 48179    | 20.17    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 80.68% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 70941    | 24.95    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 99.80% |

#### Target Compounds

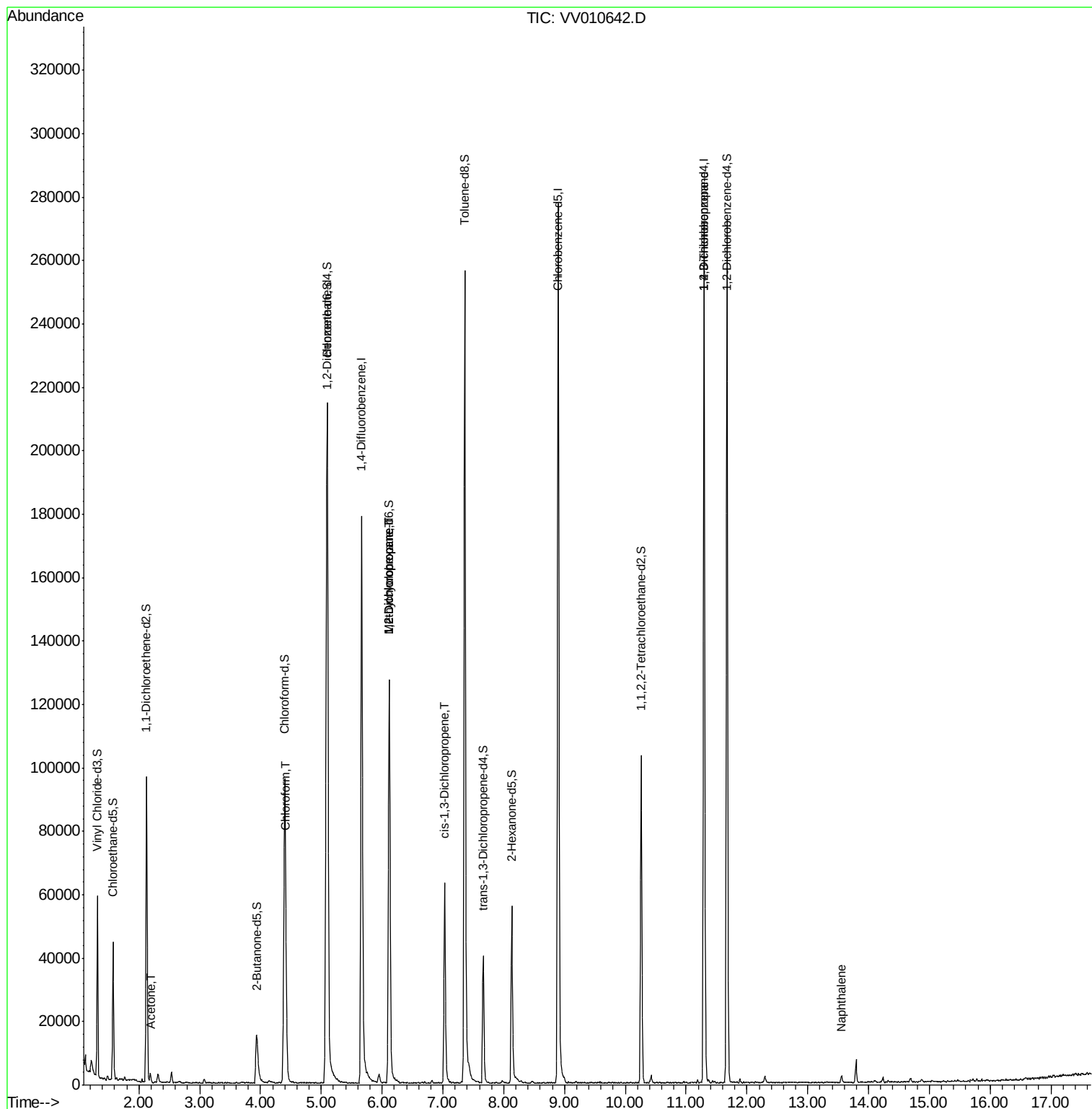
|                             |       |     |       |              | Qvalue |
|-----------------------------|-------|-----|-------|--------------|--------|
| 13) Acetone                 | 2.20  | 43  | 1859  | 3.534 ug/L   | 100    |
| 25) Chloroform              | 4.42  | 83  | 4327  | 1.101 ug/L   | 82     |
| 36) Methylcyclohexane       | 6.12  | 83  | 15181 | 4.666 ug/L # | 19     |
| 40) 1,2-Dichloropropane     | 6.12  | 63  | 6884  | 3.316 ug/L # | 87     |
| 42) cis-1,3-Dichloropropene | 7.03  | 75  | 1745  | 0.575 ug/L   | 90     |
| 59) 1,2,3-Trichloropropane  | 11.29 | 75  | 9245  | 5.682 ug/L # | 88     |
| 69) Naphthalene             | 13.55 | 128 | 2386  | 0.505 ug/L # | 78     |

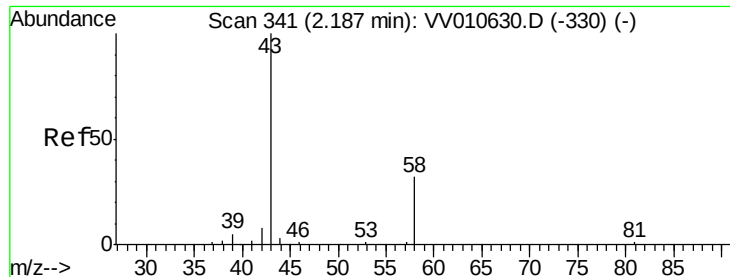
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri May 03 02:22:17 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 3.534 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV010642.D

Acq: 03 May 2019 00:26

Instrument :

MSVOA\_V

ClientSampleId :

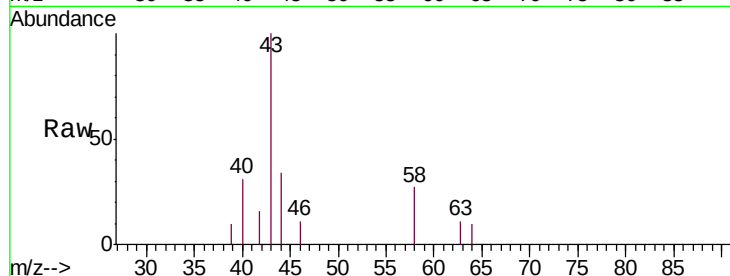
GAJ65

Tgt Ion: 43 Resp: 1859

Ion Ratio Lower Upper

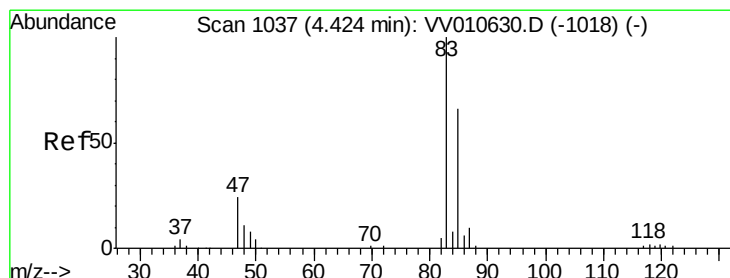
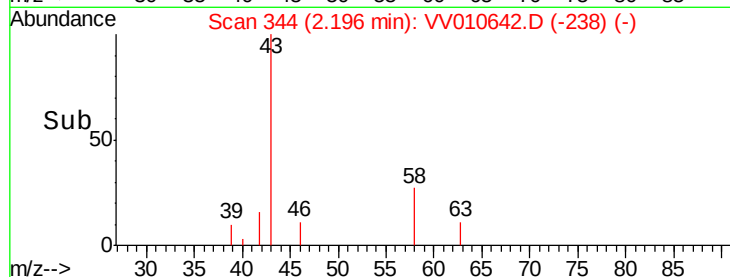
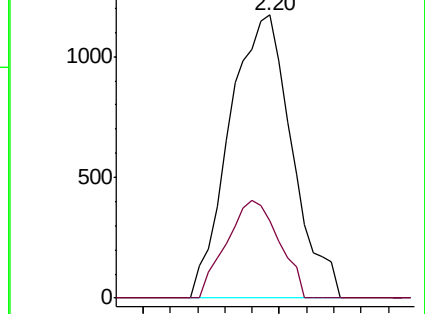
43 100

58 29.2 0.0 58.2



Abundance Ion 43.00 (42.70 to 43.70): VV010630.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV010630.D (-330) (-)



#25

Chloroform

Concen: 1.101 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV010642.D

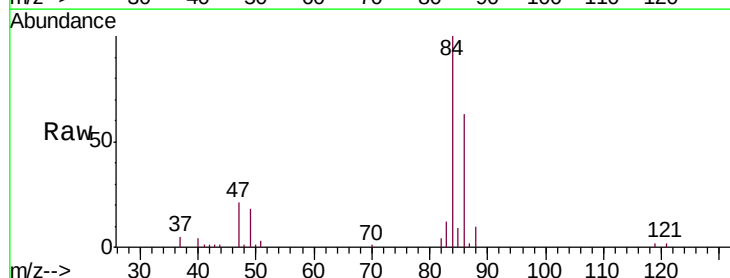
Acq: 03 May 2019 00:26

Tgt Ion: 83 Resp: 4327

Ion Ratio Lower Upper

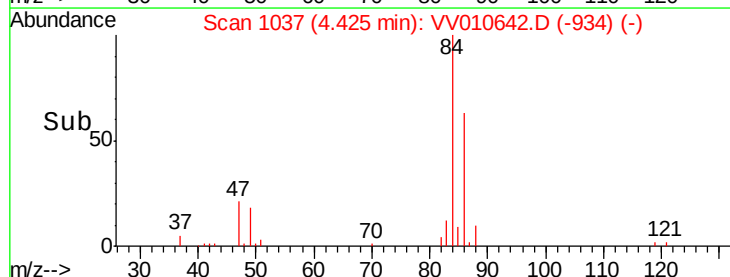
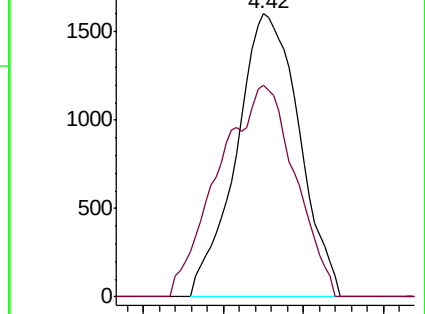
83 100

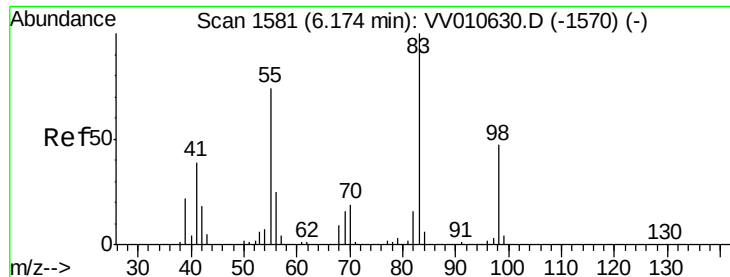
85 51.8 46.3 86.1



Abundance Ion 83.00 (82.70 to 83.70): VV010630.D (-1018) (-)

Ion 85.00 (84.70 to 85.70): VV010630.D (-1018) (-)

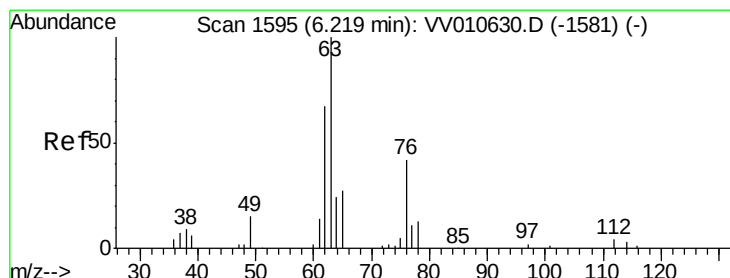
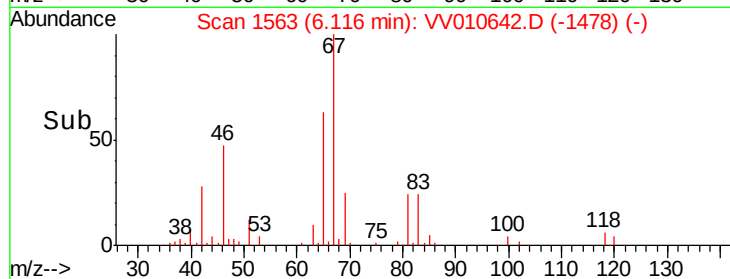
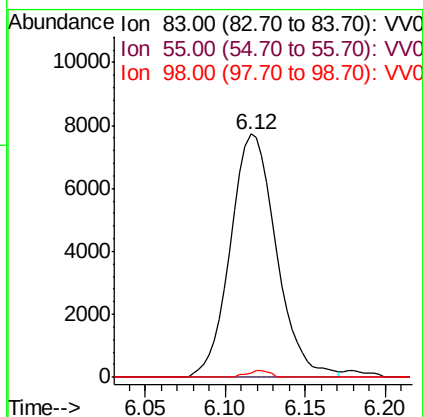
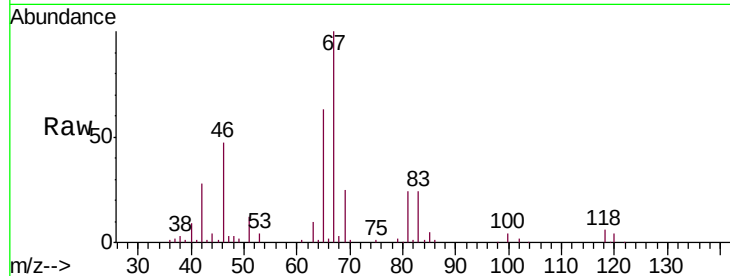




#36  
Methylcyclohexane  
Concen: 4.666 ug/L  
RT: 6.12 min Scan# 1563  
Delta R.T. -0.06 min  
Lab File: VV010642.D  
Acq: 03 May 2019 00:26

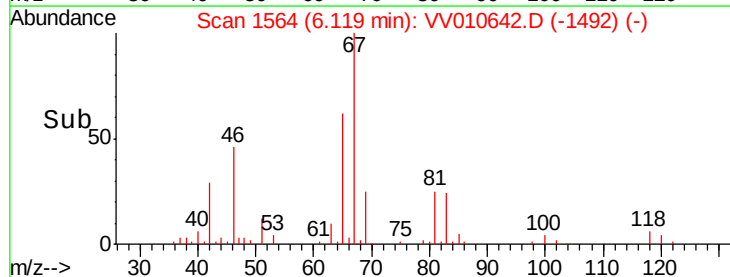
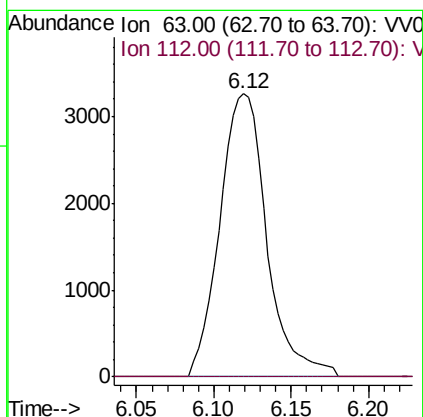
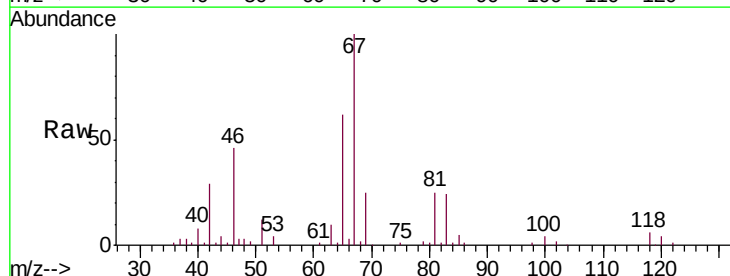
Instrument :  
MSVOA\_V  
ClientSampleId :  
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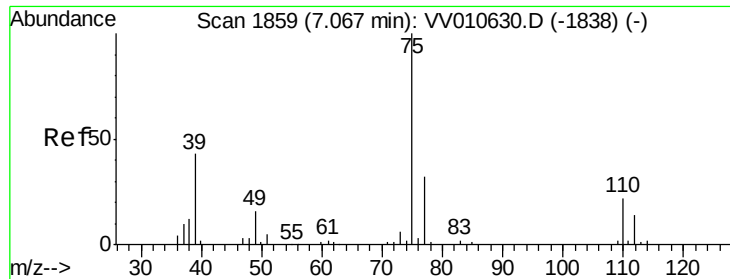
Tgt Ion: 83 Resp: 15181  
Ion Ratio Lower Upper  
83 100  
55 0.0 61.4 92.0#  
98 1.4 37.4 56.2#



#40  
1,2-Dichloropropane  
Concen: 3.316 ug/L  
RT: 6.12 min Scan# 1564  
Delta R.T. -0.10 min  
Lab File: VV010642.D  
Acq: 03 May 2019 00:26

Tgt Ion: 63 Resp: 6884  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.4 5.0#

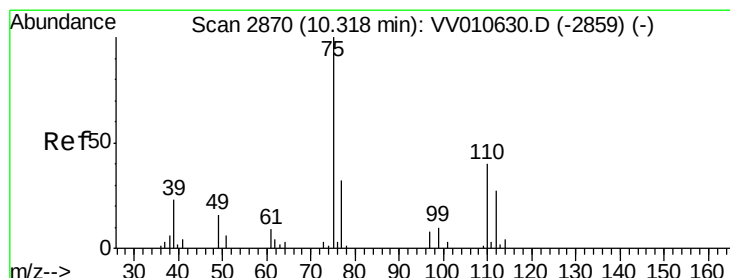
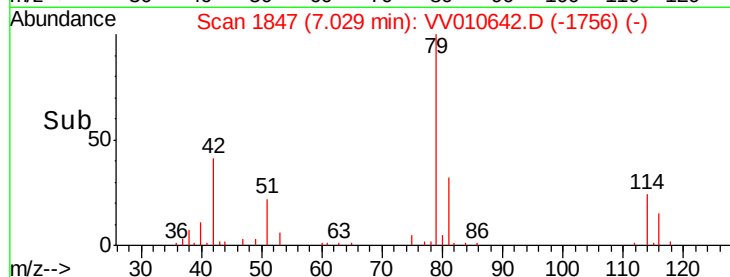
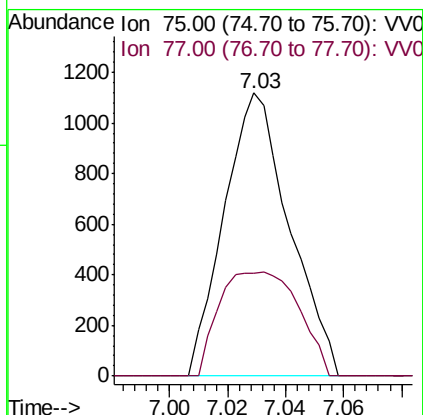
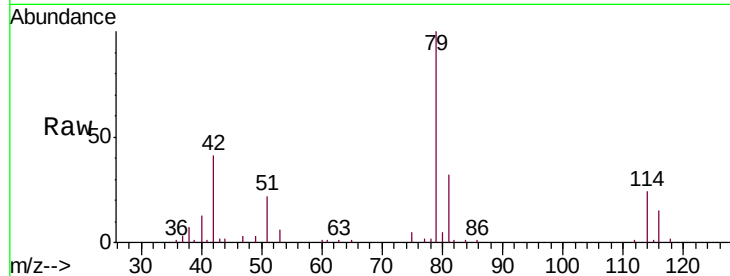




#42  
 cis-1,3-Dichloropropene  
 Concen: 0.575 ug/L  
 RT: 7.03 min Scan# 1847  
 Delta R.T. -0.04 min  
 Lab File: VV010642.D  
 Acq: 03 May 2019 00:26

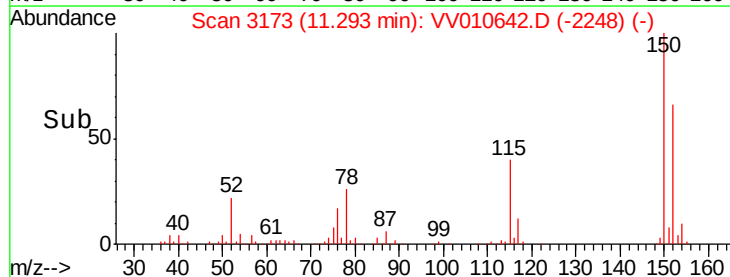
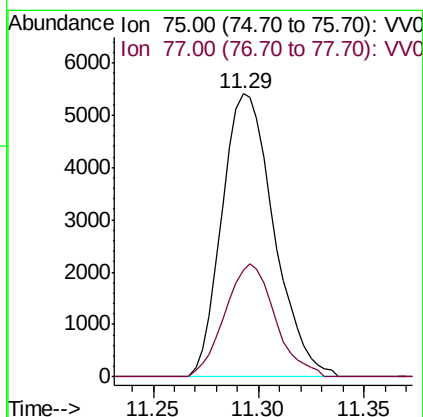
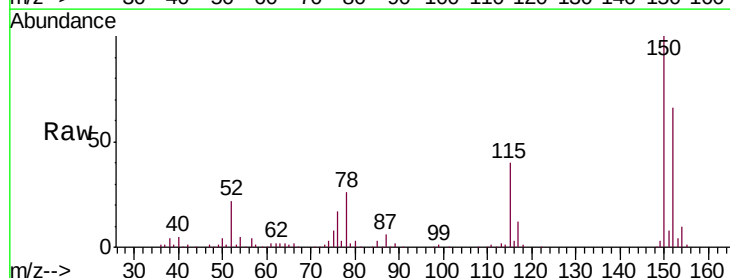
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 GAJ65

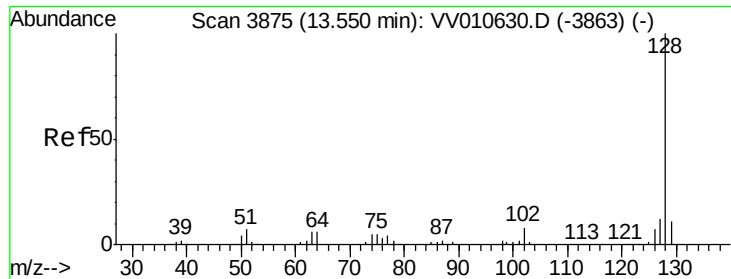
Tgt Ion: 75 Resp: 1745  
 Ion Ratio Lower Upper  
 75 100  
 77 36.4 21.8 40.4



#59  
 1,2,3-Trichloropropane  
 Concen: 5.682 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. 0.97 min  
 Lab File: VV010642.D  
 Acq: 03 May 2019 00:26

Tgt Ion: 75 Resp: 9245  
 Ion Ratio Lower Upper  
 75 100  
 77 38.5 25.6 38.4#





#69

Naphthalene

Concen: 0.505 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV010642.D

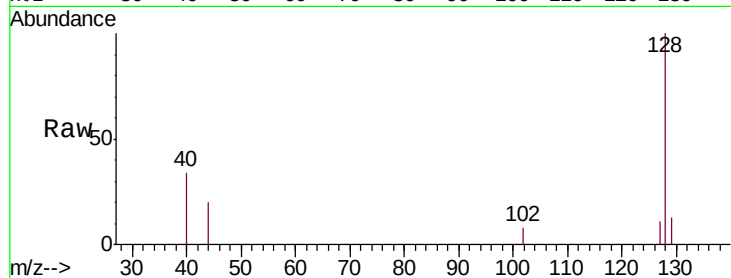
Acq: 03 May 2019 00:26

Instrument :

MSVOA\_V

ClientSampleId :

GAJ65



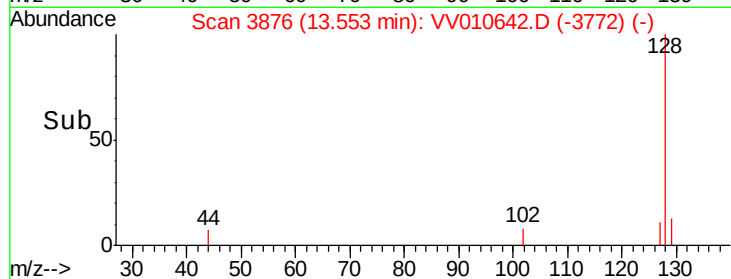
Tgt Ion:128 Resp: 2386

Ion Ratio Lower Upper

128 100

129 7.3 8.6 13.0#

127 0.0 10.6 15.8#



Abundance Ion 128.00 (127.70 to 128.70): V

2000 Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

