

Data File : VV011971.D  
Acq On : 23 Jul 2019 18:17  
Operator : SY/MD  
Sample : K3957-16  
Misc : 25ML/MSVOA\_V/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F2A39

Quant Time: Jul 24 05:57:03 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR072219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Jul 24 05:52:52 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 129345   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 123502   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 60937    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 35859    | 5.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 106.60% |
| 7) Chloroethane-d5             | 1.59   | 69    | 28470    | 5.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 107.60% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 57993    | 4.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 86.60%  |
| 20) 2-Butanone-d5              | 3.97   | 46    | 108228   | 55.08    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.16% |
| 24) Chloroform-d               | 4.40   | 84    | 91068    | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.40% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 51231    | 5.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 113.80% |
| 32) Benzene-d6                 | 5.10   | 84    | 189614   | 5.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 110.20% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 54130    | 5.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 109.80% |
| 41) Toluene-d8                 | 7.36   | 98    | 171264   | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 107.20% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 21233    | 5.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 106.20% |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 90325    | 56.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 112.46% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 37279    | 5.32     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 106.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 68660    | 5.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 117.00% |

#### Target Compounds

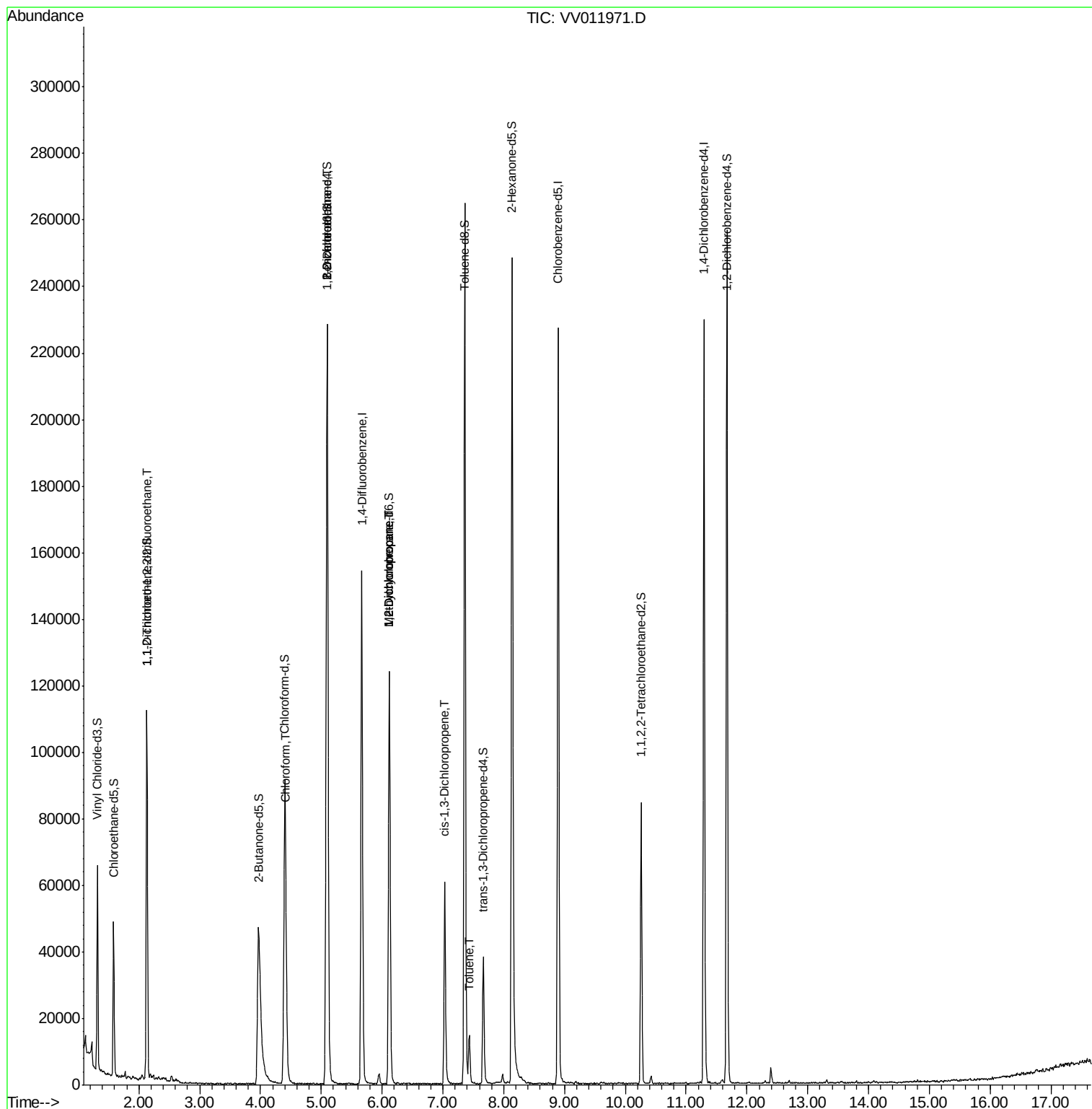
|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 577   | 0.088 ug/L # | 15     |
| 25) Chloroform                 | 4.42 | 83  | 6430  | 0.329 ug/L   | 92     |
| 27) 1,2-Dichloroethane         | 5.09 | 62  | 1469  | 0.135 ug/L # | 76     |
| 35) Methylcyclohexane          | 6.12 | 83  | 14724 | 0.938 ug/L # | 17     |
| 37) 1,2-Dichloropropane        | 6.12 | 63  | 6799  | 0.778 ug/L # | 84     |
| 39) cis-1,3-Dichloropropene    | 7.03 | 75  | 1662  | 0.128 ug/L # | 64     |
| 42) Toluene                    | 7.43 | 91  | 9961  | 0.255 ug/L   | 99     |

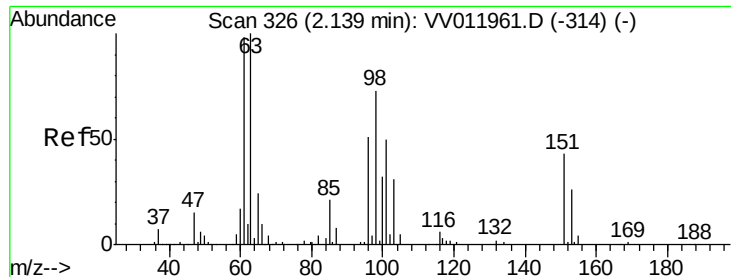
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.088 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

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MSVOA\_V

ClientSampleId :

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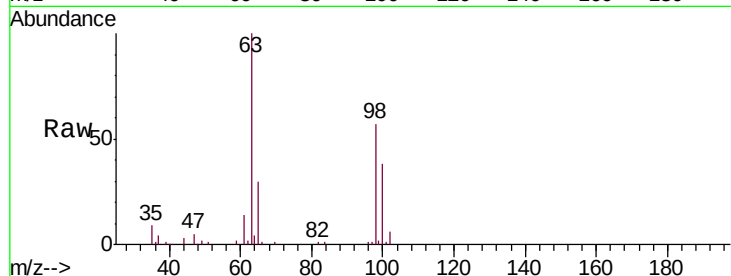
Tgt Ion: 101 Resp: 577

Ion Ratio Lower Upper

101 100

85 0.0 37.0 55.6#

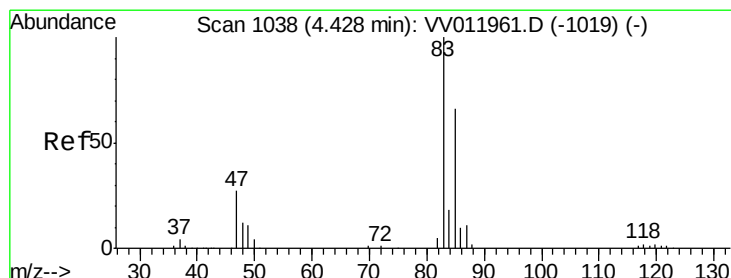
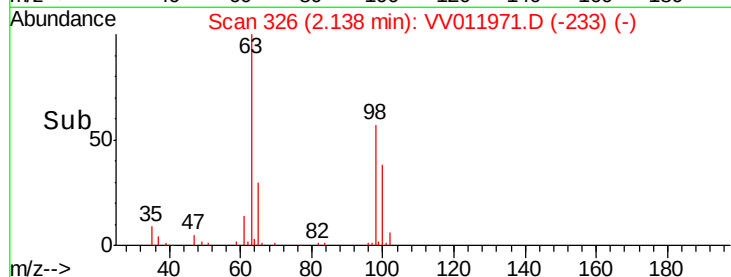
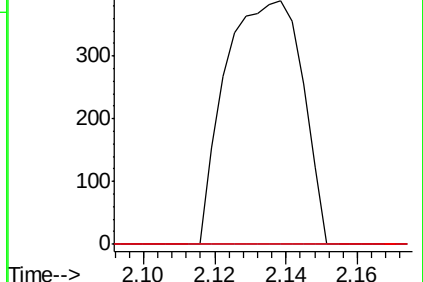
151 0.0 68.3 102.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#25

Chloroform

Concen: 0.329 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VV011971.D

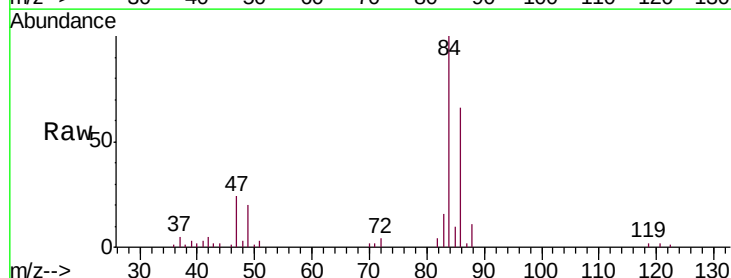
Acq: 23 Jul 2019 18:17

Tgt Ion: 83 Resp: 6430

Ion Ratio Lower Upper

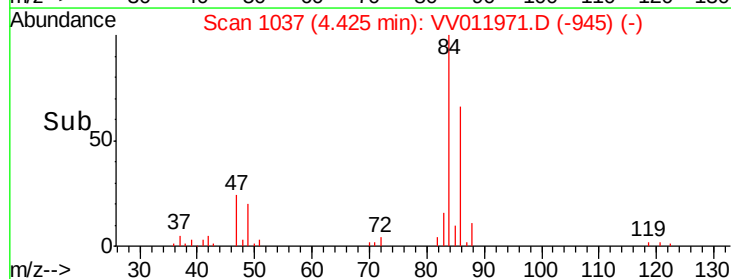
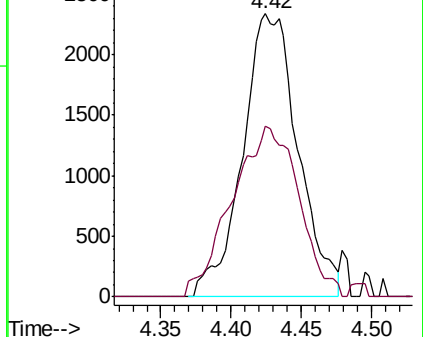
83 100

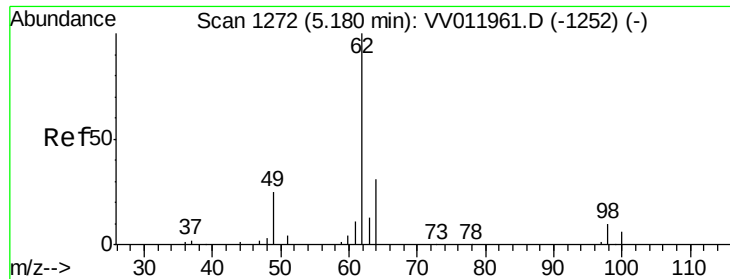
85 60.2 46.5 86.3



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 0.135 ug/L

RT: 5.09 min Scan# 1245

Delta R.T. -0.09 min

Lab File: VV011971.D

Acq: 23 Jul 2019 18:17

Instrument :

MSVOA\_V

ClientSampleId :

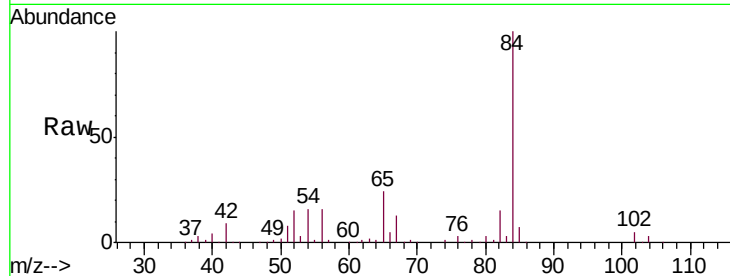
F2A39

Tgt Ion: 62 Resp: 1469

Ion Ratio Lower Upper

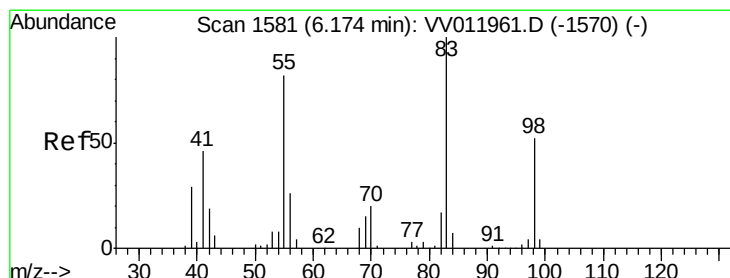
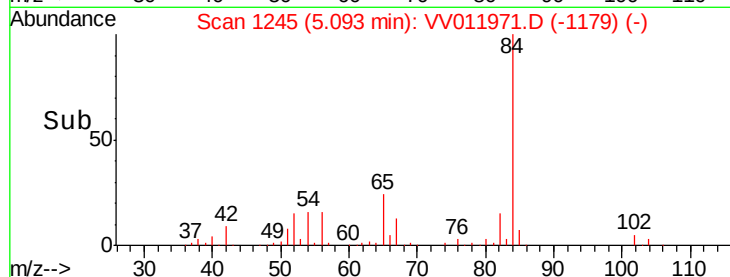
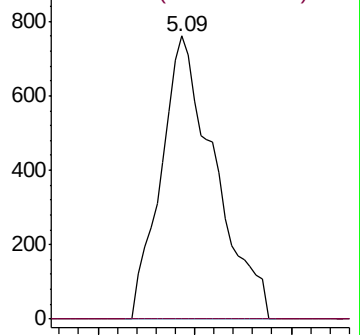
62 100

98 0.0 7.0 10.6#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0



#35

Methylcyclohexane

Concen: 0.938 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.05 min

Lab File: VV011971.D

Acq: 23 Jul 2019 18:17

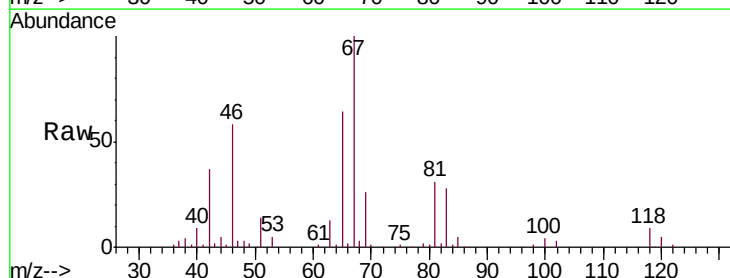
Tgt Ion: 83 Resp: 14724

Ion Ratio Lower Upper

83 100

55 0.0 63.0 94.4#

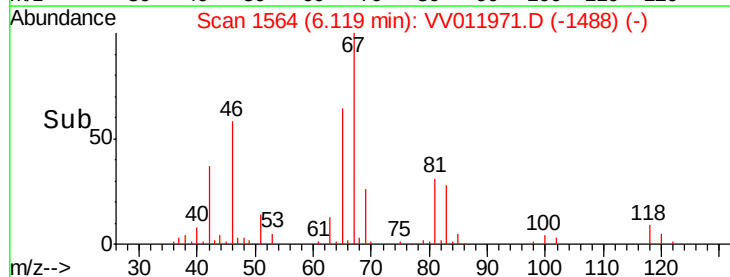
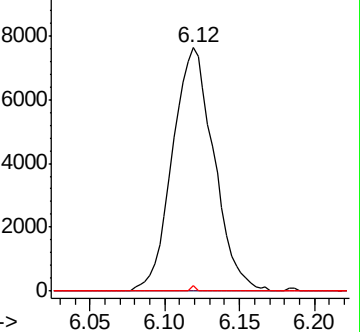
98 0.2 41.4 62.0#

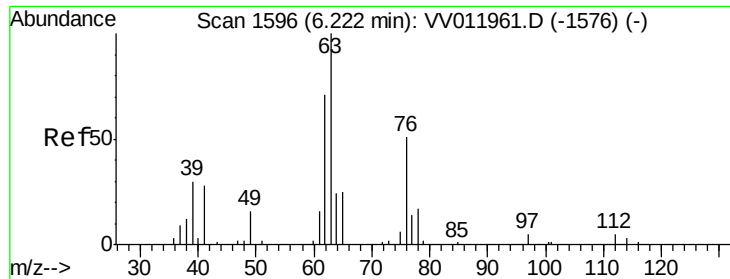


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

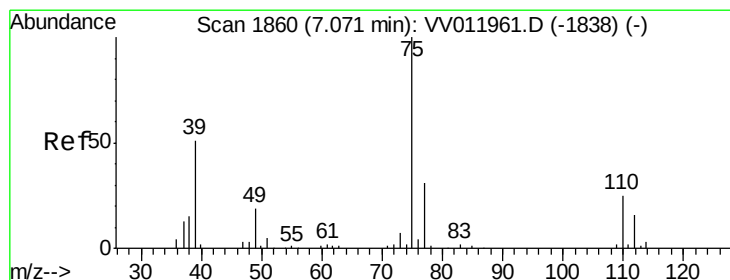
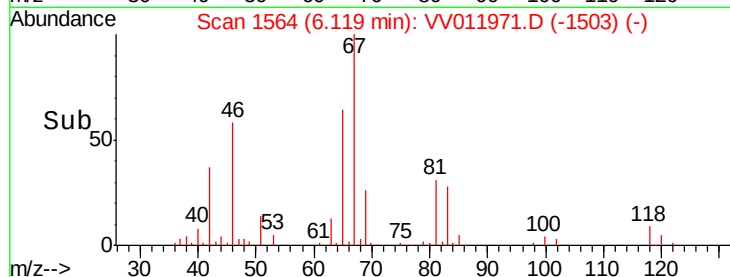
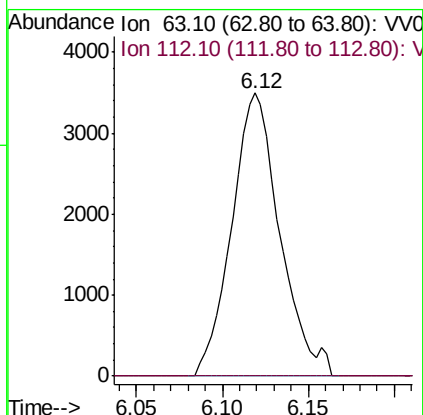
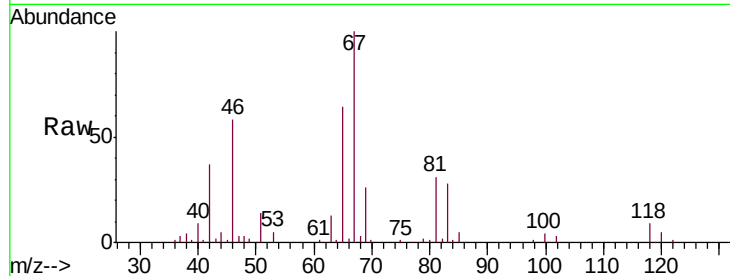




#37  
 1,2-Dichloropropane  
 Concen: 0.778 ug/L  
 RT: 6.12 min Scan# 1564  
 Delta R.T. -0.10 min  
 Lab File: VV011971.D  
 Acq: 23 Jul 2019 18:17

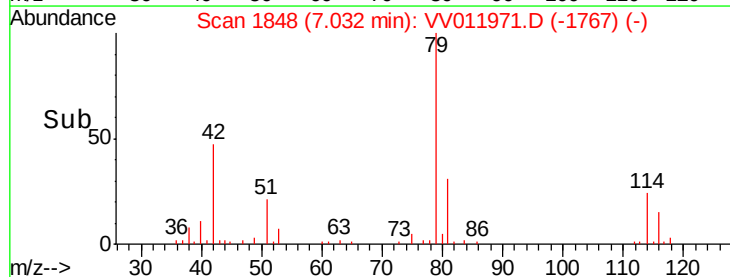
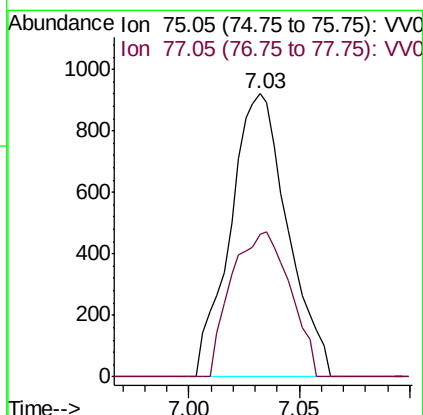
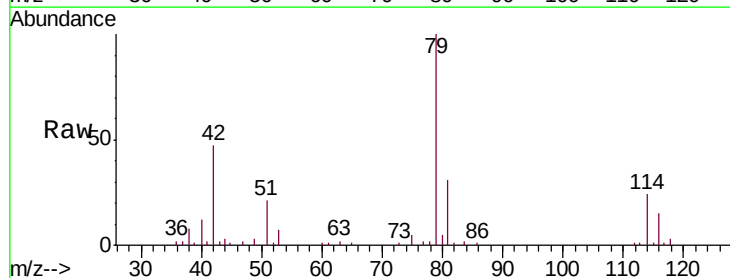
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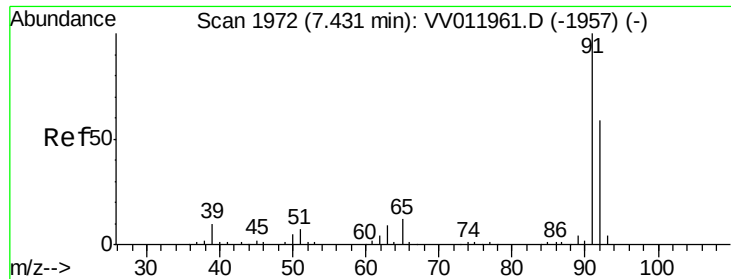
Tgt Ion: 63 Resp: 6799  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 4.2 6.4#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.128 ug/L  
 RT: 7.03 min Scan# 1848  
 Delta R.T. -0.04 min  
 Lab File: VV011971.D  
 Acq: 23 Jul 2019 18:17

Tgt Ion: 75 Resp: 1662  
 Ion Ratio Lower Upper  
 75 100  
 77 50.4 21.3 39.6#





#42

Toluene

Concen: 0.255 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV011971.D

Acq: 23 Jul 2019 18:17

Instrument :

MSVOA\_V

ClientSampleId :

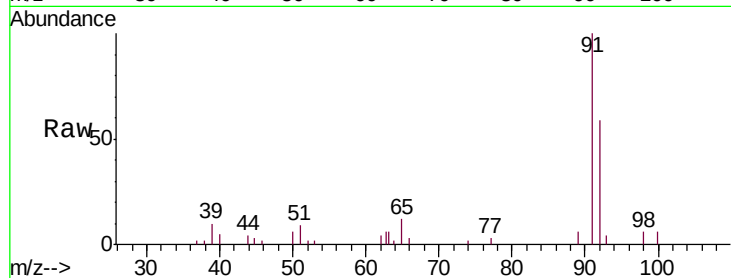
F2A39

Tgt Ion: 91 Resp: 9961

Ion Ratio Lower Upper

91 100

92 59.1 41.9 77.9



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

