

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012420\  
 Data File : VV014397.D  
 Acq On : 24 Jan 2020 18:46  
 Operator : SY/MD  
 Sample : L1253-06  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 H0AC3

Quant Time: Jan 25 01:45:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR010220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Jan 25 00:18:39 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 915151   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 850473   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 390693   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 233168   | 3.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 72.80%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 210333   | 4.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 85.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 242844   | 2.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 51.40%# |
| 20) 2-Butanone-d5              | 3.92   | 46    | 819803   | 53.30    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 106.60% |
| 24) Chloroform-d               | 4.40   | 84    | 559774   | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 277328   | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.40%  |
| 32) Benzene-d6                 | 5.10   | 84    | 1026106  | 4.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 80.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 359932   | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.60%  |
| 41) Toluene-d8                 | 7.36   | 98    | 824234   | 3.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 71.00%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 126869   | 3.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 73.00%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 765688   | 51.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 103.92% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 275698   | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 314966   | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.80%  |

## Target Compounds

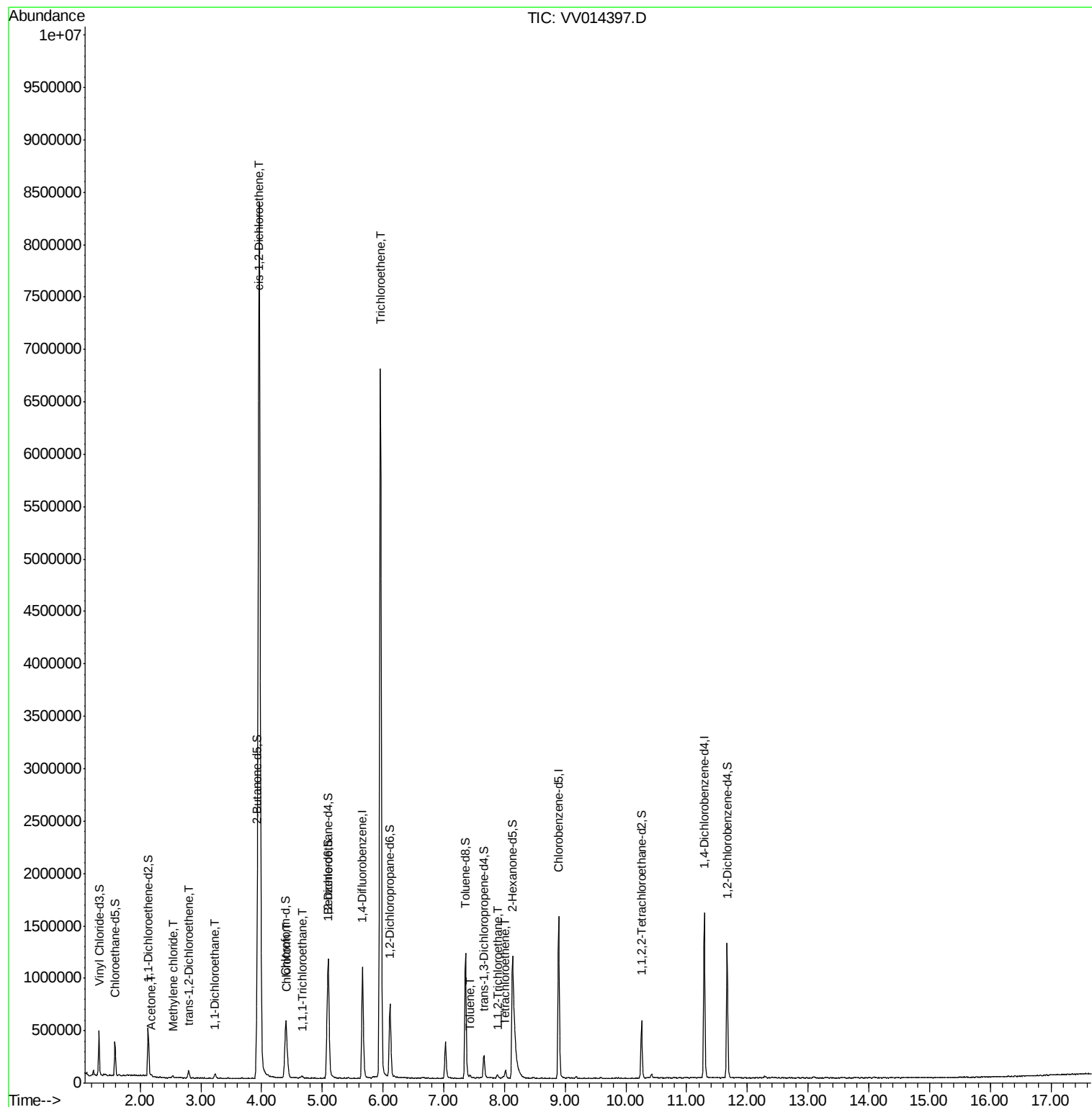
| Target Compounds             | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|------------------------------|------|------|----------|--------|--------|--------|
| 13) Acetone                  | 2.19 | 43   | 13817    | 1.304  | ug/L   | 75     |
| 16) Methylene chloride       | 2.54 | 84   | 8016     | 0.120  | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene | 2.80 | 96   | 26927    | 0.438  | ug/L   | 92     |
| 19) 1,1-Dichloroethane       | 3.24 | 63   | 39630    | 0.329  | ug/L   | 99     |
| 22) cis-1,2-Dichloroethene   | 3.96 | 96   | 4699824  | 69.760 | ug/L # | 96     |
| 25) Chloroform               | 4.42 | 83   | 88753    | 0.770  | ug/L   | 98     |
| 29) 1,1,1-Trichloroethane    | 4.66 | 97   | 16215    | 0.160  | ug/L # | 74     |
| 34) Trichloroethene          | 5.96 | 95   | 2478123  | 36.818 | ug/L   | 99     |
| 42) Toluene                  | 7.43 | 91   | 19039    | 0.069  | ug/L   | 94     |
| 45) 1,1,2-Trichloroethane    | 7.88 | 97   | 10479    | 0.248  | ug/L   | 92     |
| 47) Tetrachloroethene        | 8.02 | 164  | 18710    | 0.407  | ug/L   | 87     |

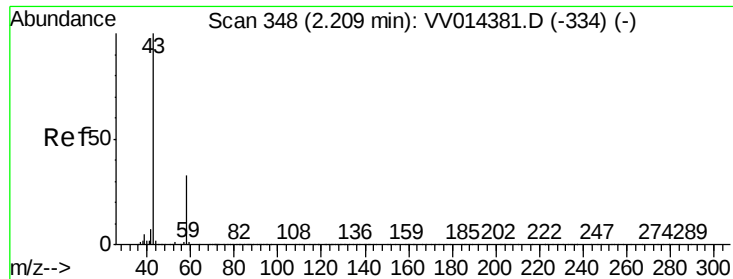
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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H0AC3

Quant Time: Jan 25 01:45:22 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR010220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Jan 25 00:18:39 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 1.304 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.02 min

Lab File: VV014397.D

Acq: 24 Jan 2020 18:46

Instrument :

MSVOA\_V

ClientSampleId :

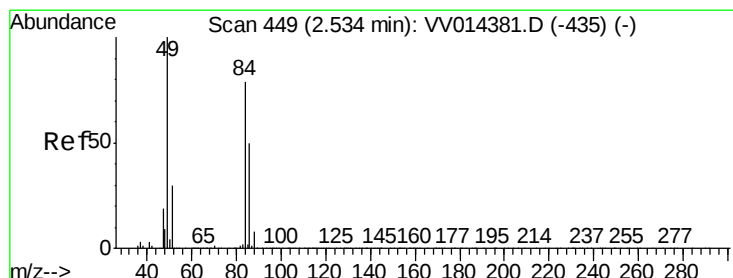
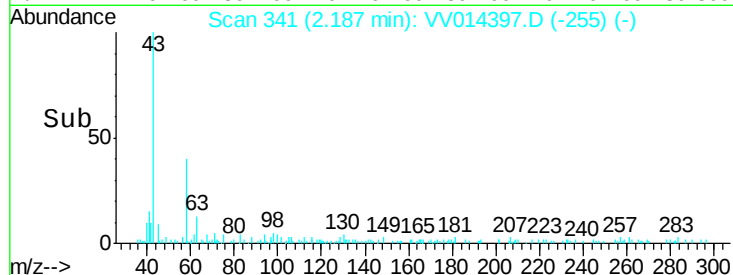
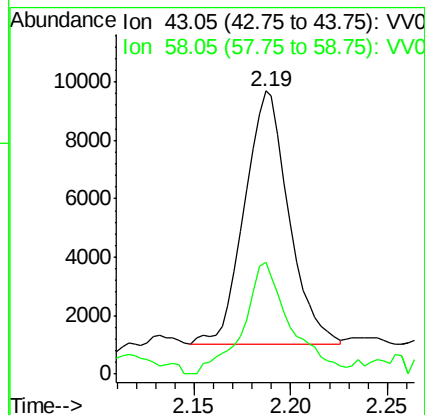
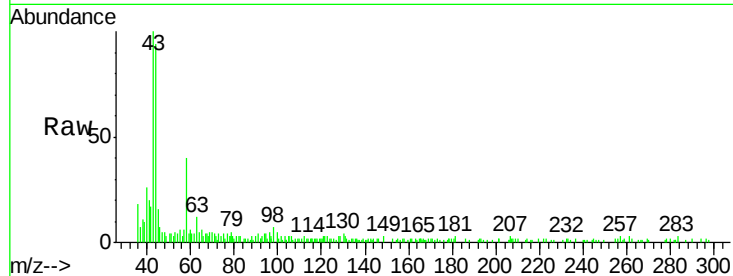
H0AC3

Tot Ion: 43 Resp: 13817

Ion Ratio Lower Upper

43 100

58 47.0 0.0 66.0



#16

Methylene chloride

Concen: 0.120 ug/L

RT: 2.54 min Scan# 451

Delta R.T. 0.01 min

Lab File: VV014397.D

Acq: 24 Jan 2020 18:46

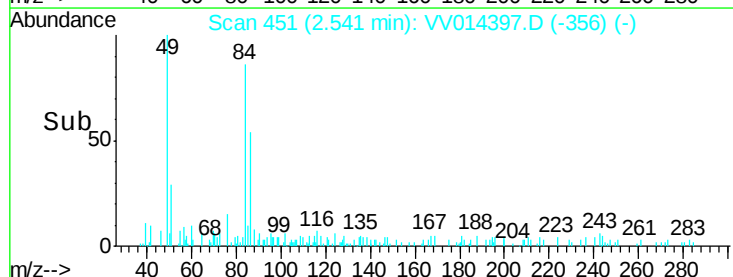
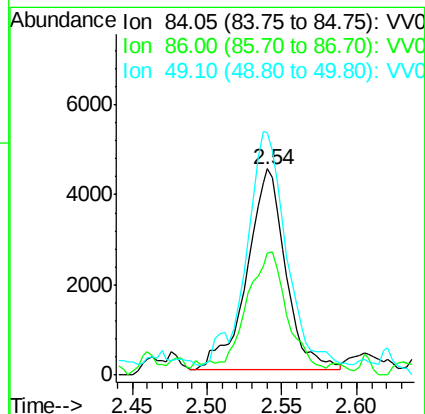
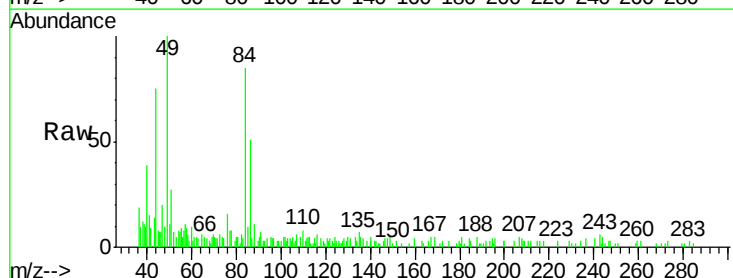
Tgt Ion: 84 Resp: 8016

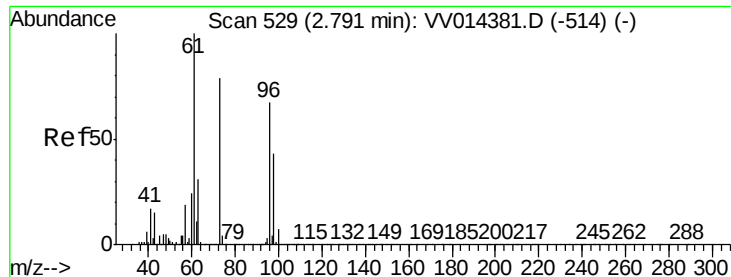
Ion Ratio Lower Upper

84 100

86 59.5 43.1 80.1

49 117.7 82.1 152.5





#18

trans-1,2-Dichloroethene

Concen: 0.438 ug/L

RT: 2.80 min Scan# 531

Delta R.T. 0.01 min

Lab File: VV014397.D

Acq: 24 Jan 2020 18:46

Instrument :

MSVOA\_V

ClientSampleId :

H0AC3

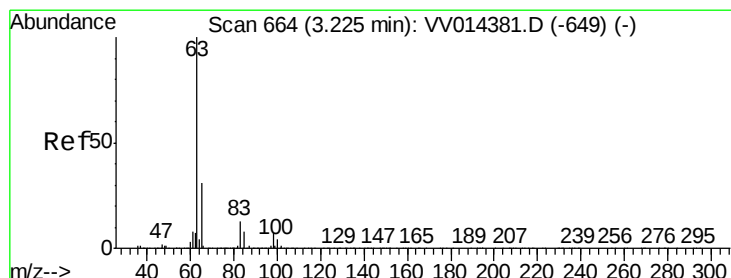
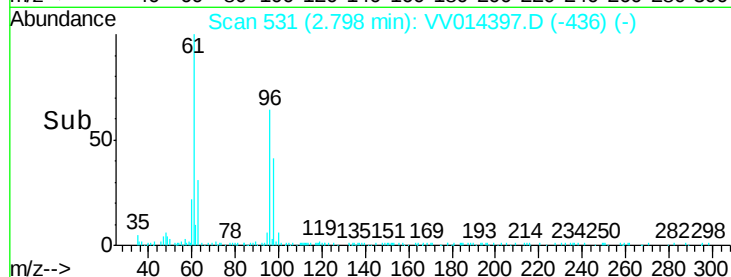
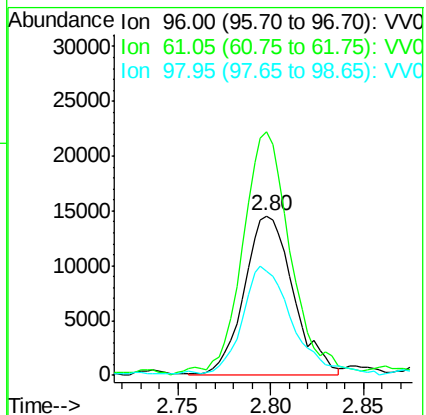
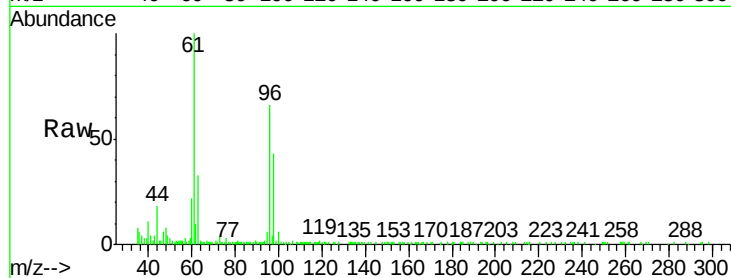
Tot Ion: 96 Resp: 26927

Ion Ratio Lower Upper

96 100

61 152.6 99.2 184.2

98 64.9 43.1 80.1



#19

1,1-Dichloroethane

Concen: 0.329 ug/L

RT: 3.24 min Scan# 667

Delta R.T. 0.01 min

Lab File: VV014397.D

Acq: 24 Jan 2020 18:46

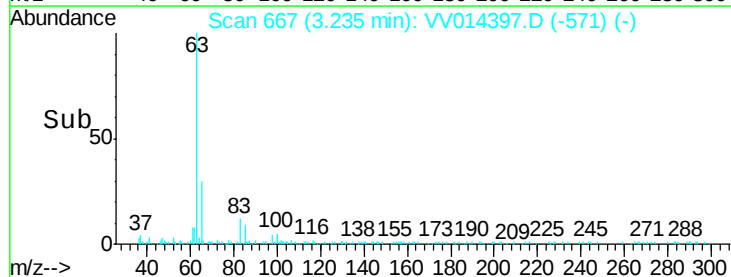
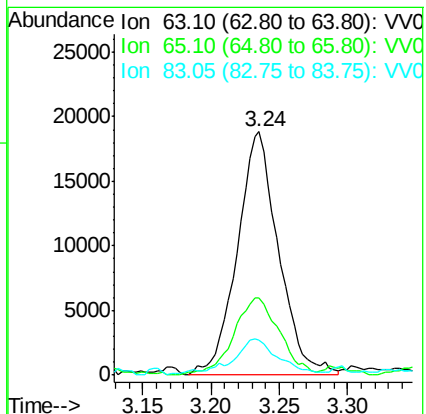
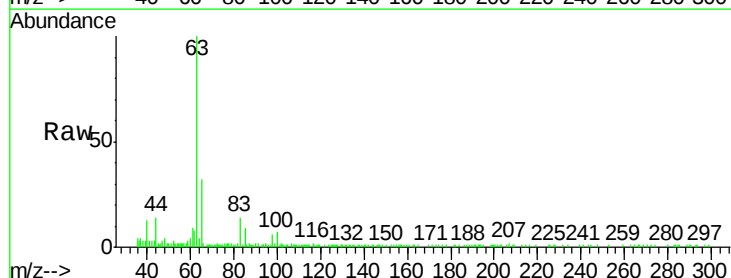
Tgt Ion: 63 Resp: 39630

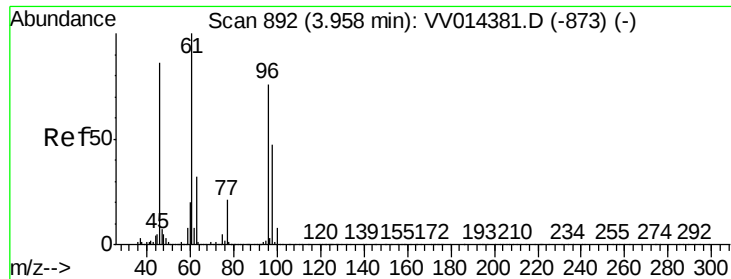
Ion Ratio Lower Upper

63 100

65 31.7 22.7 42.3

83 14.4 10.0 18.6



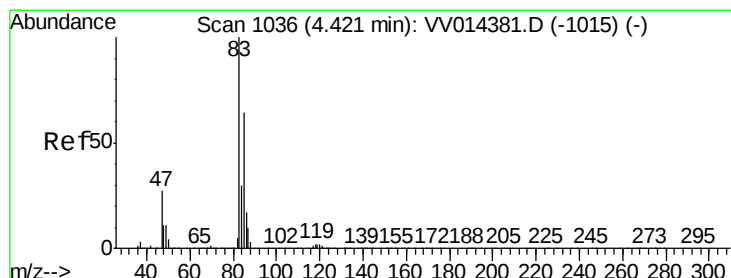
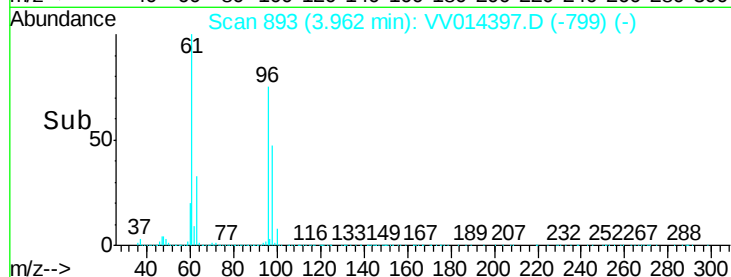
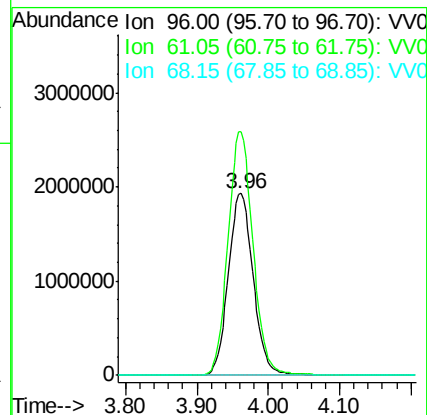
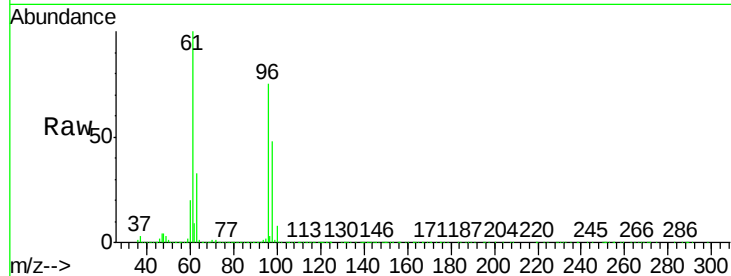


#22

cis-1,2-Dichloroethene  
Concen: 69.760 ug/L  
RT: 3.96 min Scan# 893  
Delta R.T. 0.00 min  
Lab File: VV014397.D  
Acq: 24 Jan 2020 18:46

Instrument :  
MSVOA\_V  
ClientSampleId :  
H0AC3

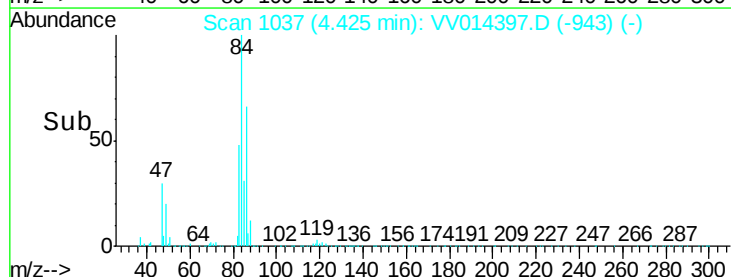
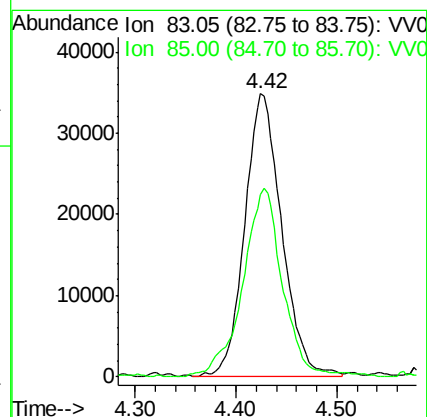
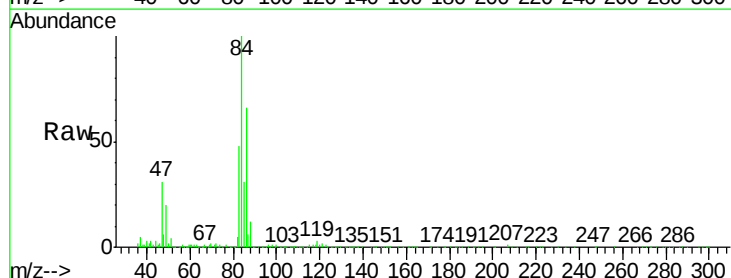
Tot Ion: 96 Resp: 4699824  
Ion Ratio Lower Upper  
96 100  
61 133.7 90.6 168.3  
68 0.0 0.3 0.7#

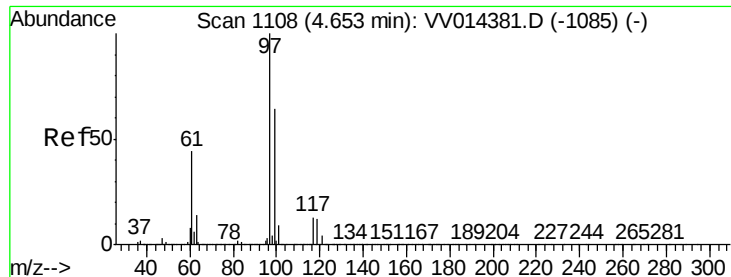


#25

Chloroform  
Concen: 0.770 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. 0.00 min  
Lab File: VV014397.D  
Acq: 24 Jan 2020 18:46

Tgt Ion: 83 Resp: 88753  
Ion Ratio Lower Upper  
83 100  
85 64.5 46.2 85.8





#29

1,1,1-Trichloroethane

Concen: 0.160 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VV014397.D

Acq: 24 Jan 2020 18:46

Instrument :

MSVOA\_V

ClientSampleId :

H0AC3

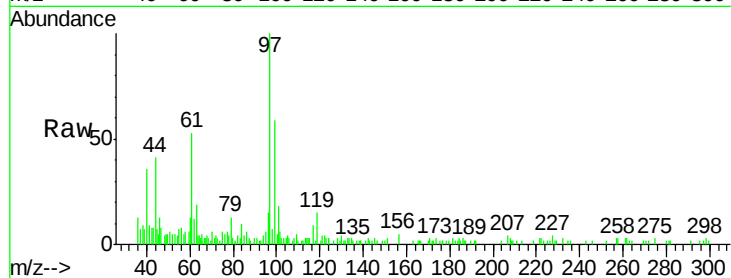
Tot Ion: 97 Resp: 16215

Ion Ratio Lower Upper

97 100

99 33.3 51.1 76.7#

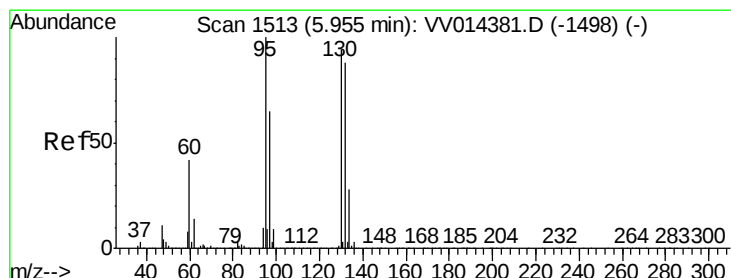
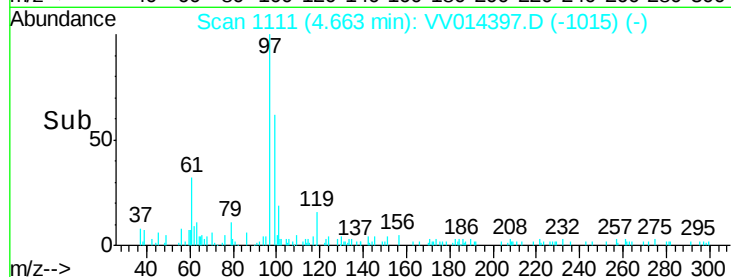
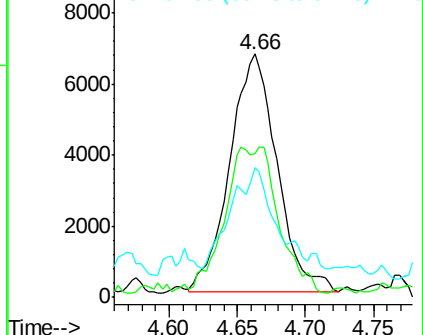
61 39.1 33.9 50.9



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#34

Trichloroethene

Concen: 36.818 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV014397.D

Acq: 24 Jan 2020 18:46

Tgt Ion: 95 Resp: 2478123

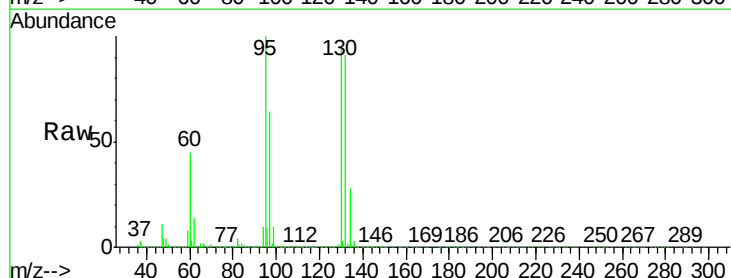
Ion Ratio Lower Upper

95 100

97 64.1 43.8 81.3

132 90.9 63.4 117.8

130 94.9 65.7 122.1

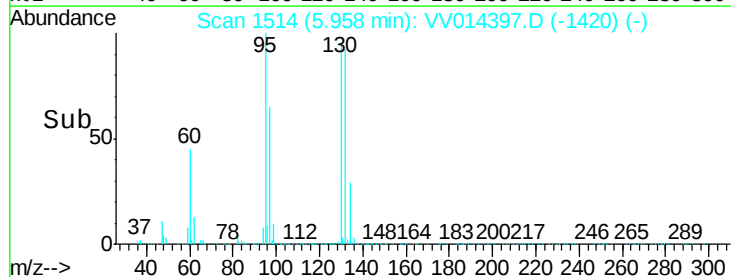
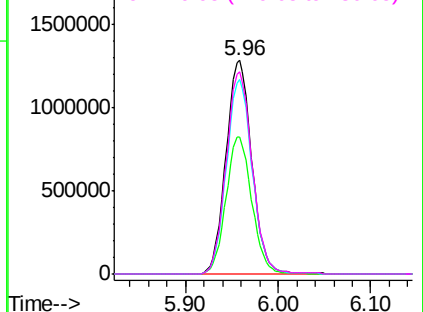


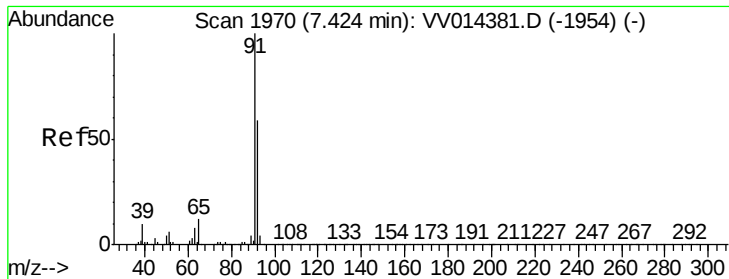
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#42

Toluene

Concen: 0.069 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VV014397.D

Acq: 24 Jan 2020 18:46

Instrument :

MSVOA\_V

ClientSampleId :

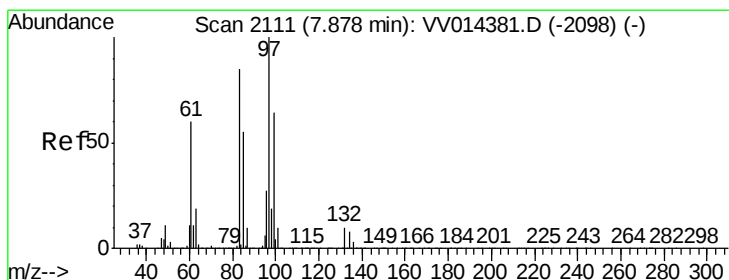
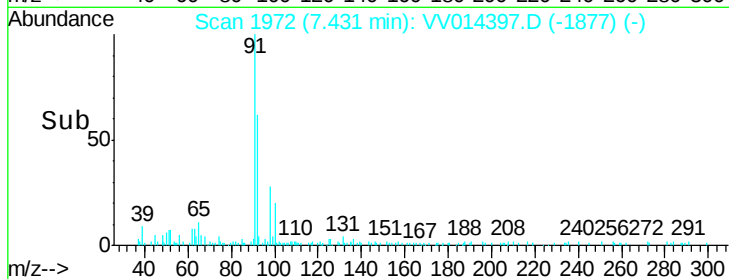
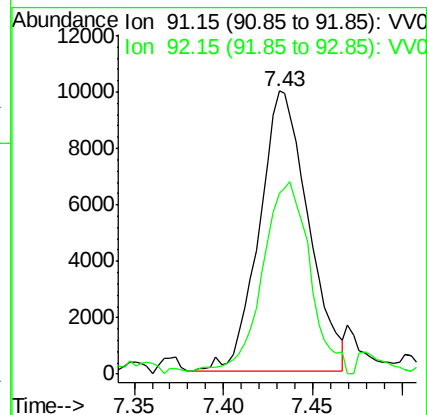
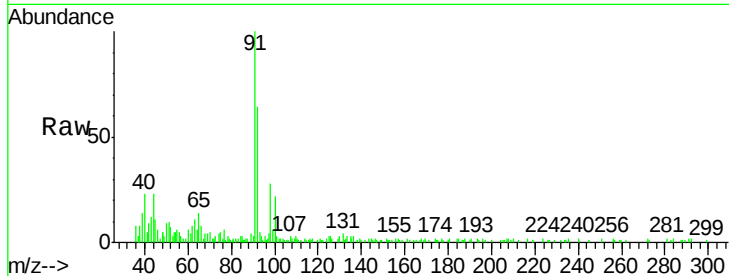
H0AC3

Tot Ion: 91 Resp: 19039

Ion Ratio Lower Upper

91 100

92 63.7 41.2 76.6



#45

1,1,2-Trichloroethane

Concen: 0.248 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VV014397.D

Acq: 24 Jan 2020 18:46

Tgt Ion: 97 Resp: 10479

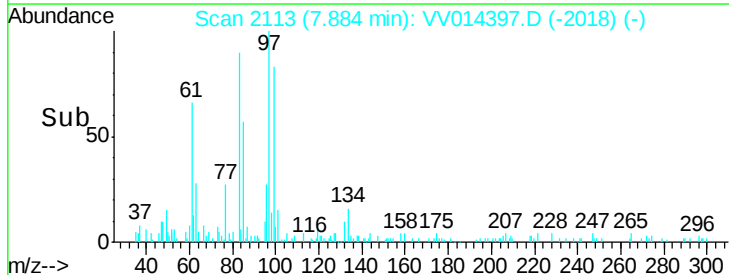
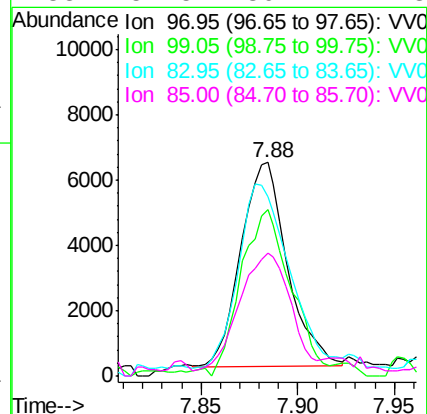
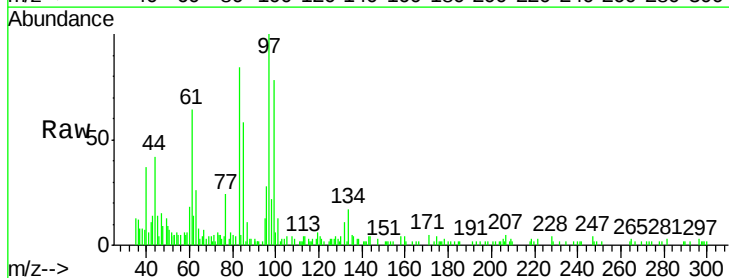
Ion Ratio Lower Upper

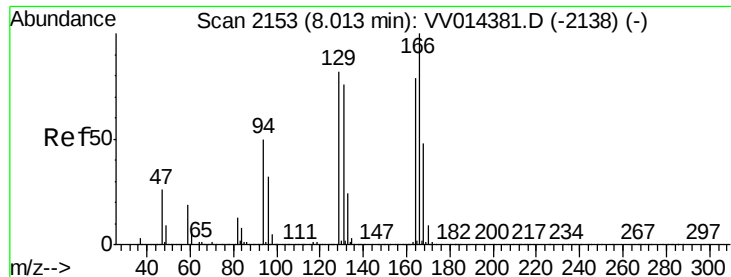
97 100

99 78.2 43.7 81.1

83 84.2 60.0 111.4

85 57.5 39.2 72.8





#47

Tetrachloroethene

Concen: 0.407 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.01 min

Lab File: VV014397.D

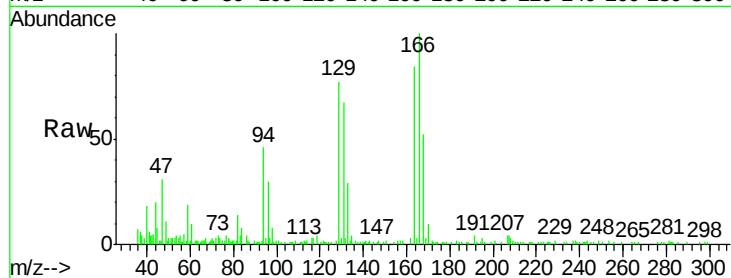
Acq: 24 Jan 2020 18:46

Instrument :

MSVOA\_V

ClientSampleId :

H0AC3



Tot Ion:164 Resp: 18710

Ion Ratio Lower Upper

164 100

129 91.0 71.7 133.3

131 79.9 70.4 130.8

166 118.4 90.3 167.7

Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

