

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082720\  
 Data File : VV018113.D  
 Acq On : 27 Aug 2020 13:31  
 Operator : SY/MD  
 Sample : L3800-17  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BG3G4

Quant Time: Aug 28 06:47:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 28 06:20:16 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 260009   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 257327   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 126553   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 84610    | 42.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 85.30%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 75297    | 46.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.78%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 132639   | 34.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.90%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 116507   | 89.67    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.67%  |
| 24) Chloroform-d               | 4.38    | 84    | 163740   | 45.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.68%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 112668   | 48.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.06%  |
| 32) Benzene-d6                 | 5.07    | 84    | 335798   | 47.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.70%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 111143   | 47.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.88%  |
| 41) Toluene-d8                 | 7.34    | 98    | 292769   | 45.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.82%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 50095    | 47.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.28%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 67794    | 91.12    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.12%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 140576   | 46.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.12%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 125160   | 50.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.50% |

## Target Compounds

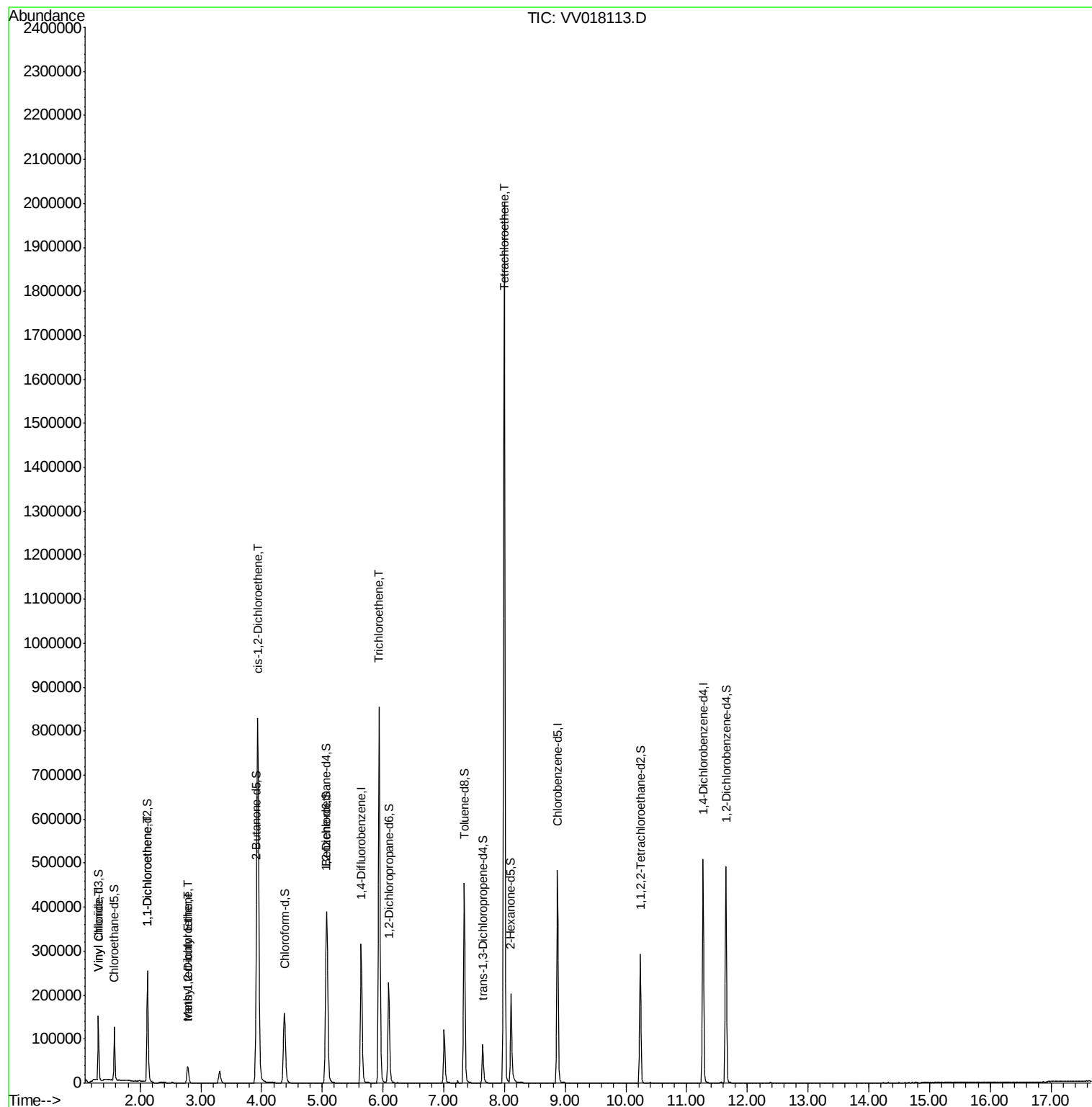
|                              |      |     |        |              | Ovalue |
|------------------------------|------|-----|--------|--------------|--------|
| 5) Vinyl chloride            | 1.32 | 62  | 7690   | 3.329 ug/L # | 34     |
| 12) 1,1-Dichloroethene       | 2.13 | 96  | 6870   | 3.939 ug/L # | 1      |
| 17) trans-1,2-Dichloroethene | 2.78 | 96  | 2051   | 1.144 ug/L   | 96     |
| 18) Methyl tert-butyl Ether  | 2.78 | 73  | 32198  | 5.430 ug/L   | 99     |
| 20) cis-1,2-Dichloroethene   | 3.94 | 96  | 449432 | 228.116 ug/L | 99     |
| 34) Trichloroethene          | 5.94 | 95  | 297206 | 141.231 ug/L | 98     |
| 46) Tetrachloroethene        | 8.00 | 164 | 443172 | 287.149 ug/L | 99     |

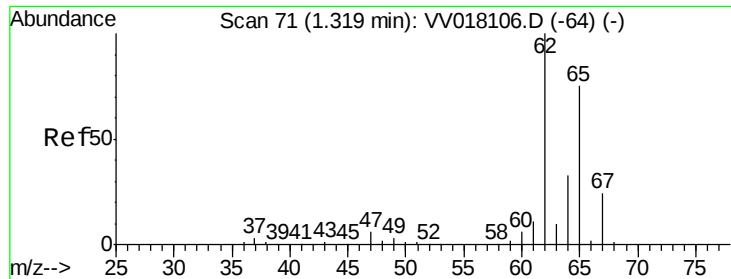
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082720\  
Data File : VV018113.D  
Acq On : 27 Aug 2020 13:31  
Operator : SY/MD  
Sample : L3800-17  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3G4

Quant Time: Aug 28 06:47:51 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 28 06:20:16 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.329 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

Instrument :

MSVOA\_V

ClientSampled :

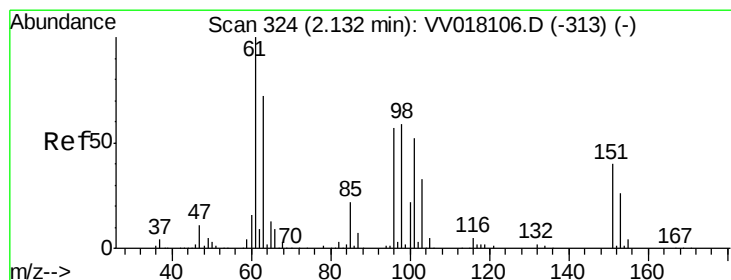
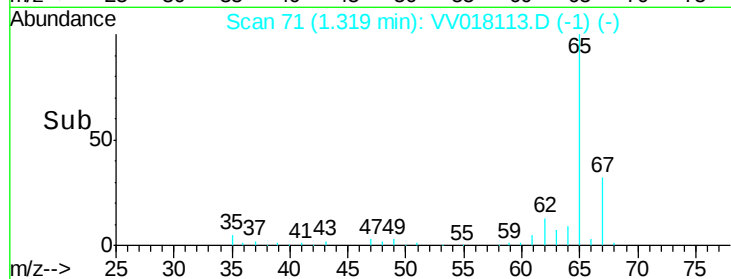
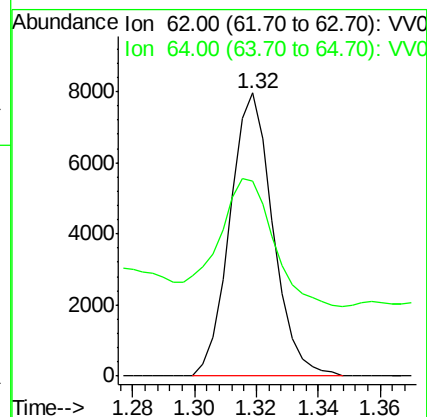
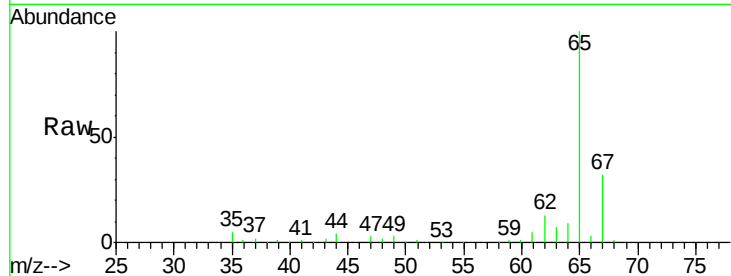
BG3G4

Tot Ion: 62 Resp: 7690

Ion Ratio Lower Upper

62 100

64 69.0 22.4 41.6#



#12

1,1-Dichloroethene

Concen: 3.939 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

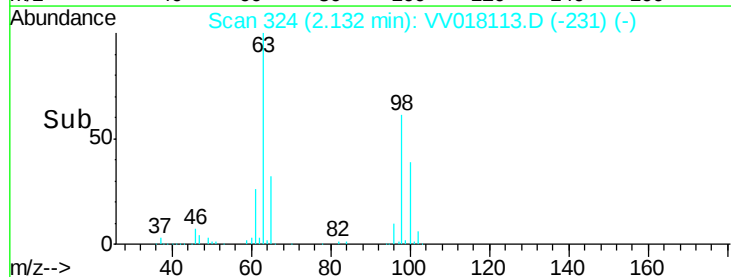
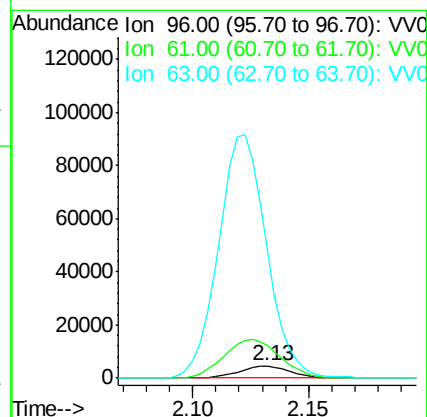
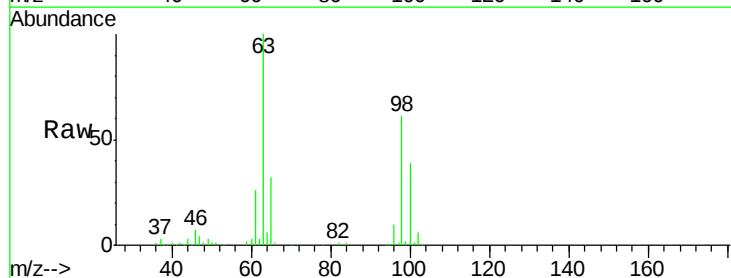
Tgt Ion: 96 Resp: 6870

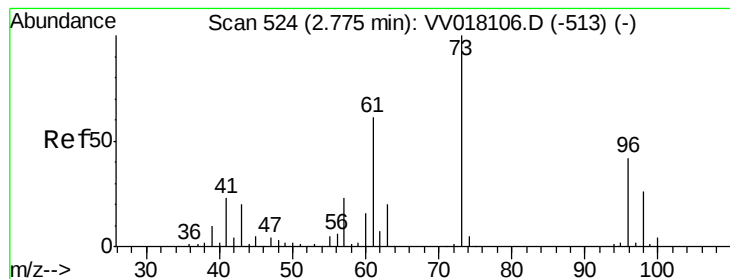
Ion Ratio Lower Upper

96 100

61 267.1 127.1 236.0#

63 1042.1 95.2 176.8#





#17

trans-1,2-Dichloroethene

Concen: 1.144 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

Instrument :

MSVOA\_V

ClientSampled :

BG3G4

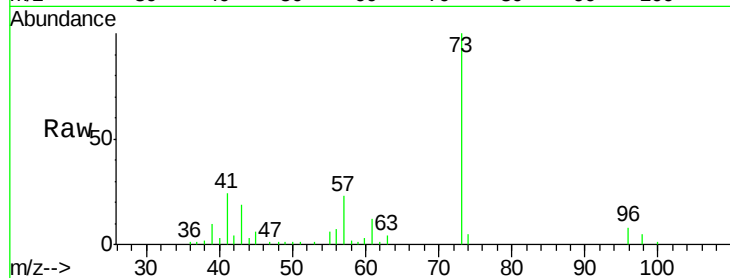
Tot Ion: 96 Resp: 2051

Ion Ratio Lower Upper

96 100

61 151.3 102.4 190.2

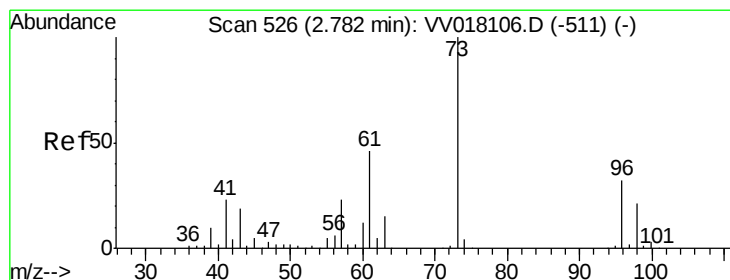
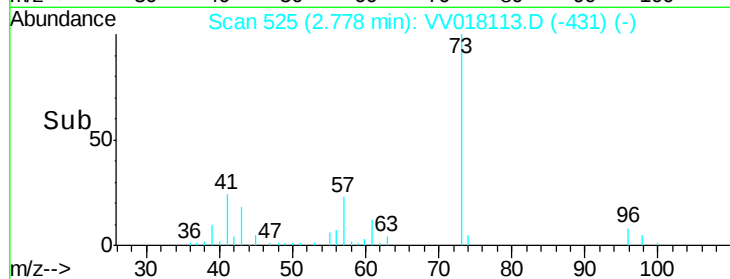
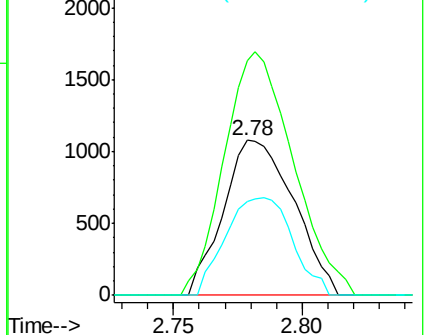
98 60.6 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VV018113.D (-431) (-)

Ion 61.00 (60.70 to 61.70): VV018113.D (-431) (-)

Ion 98.00 (97.70 to 98.70): VV018113.D (-431) (-)



#18

Methyl tert-butyl Ether

Concen: 5.430 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

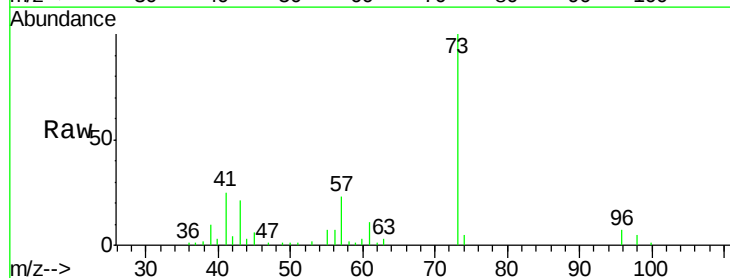
Tgt Ion: 73 Resp: 32198

Ion Ratio Lower Upper

73 100

43 20.2 15.9 23.9

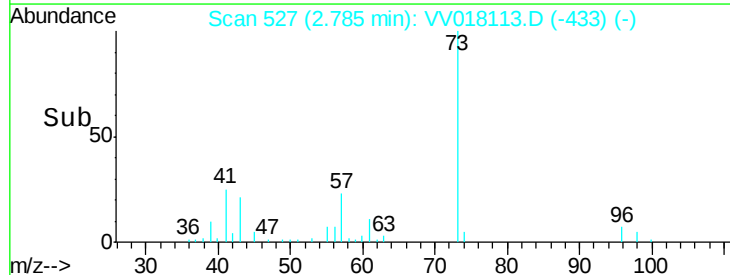
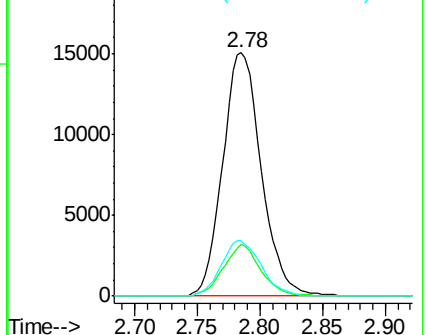
57 23.3 18.1 27.1

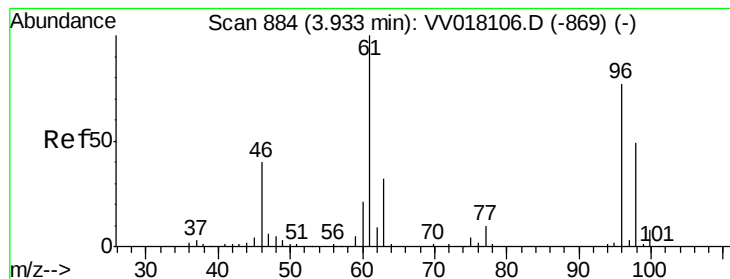


Abundance Ion 73.00 (72.70 to 73.70): VV018113.D (-433) (-)

Ion 43.00 (42.70 to 43.70): VV018113.D (-433) (-)

Ion 57.00 (56.70 to 57.70): VV018113.D (-433) (-)



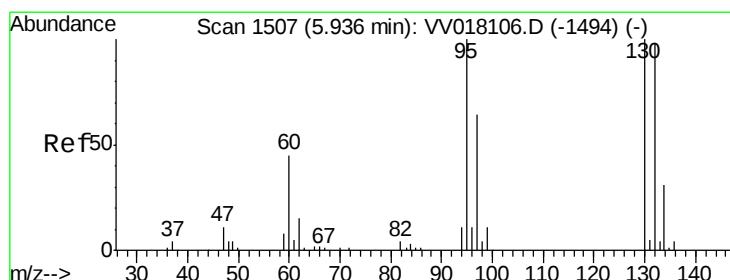
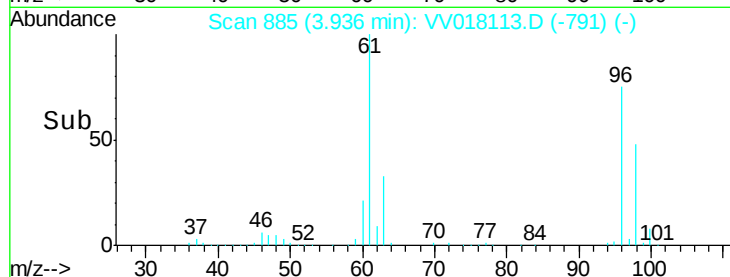
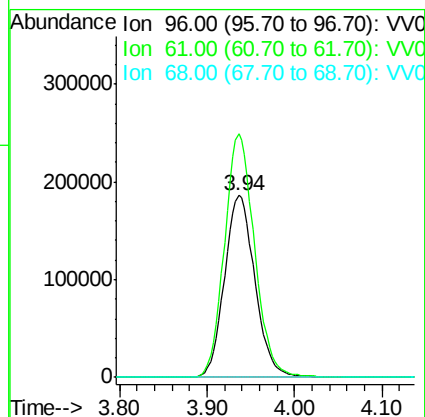
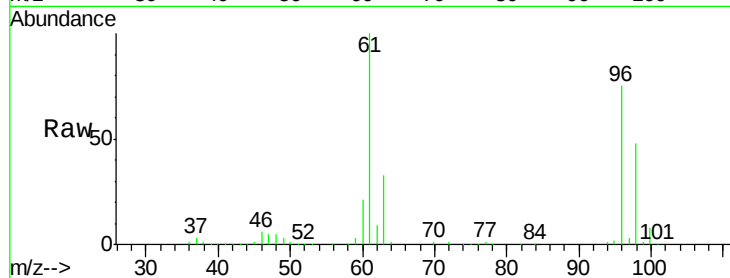


#20

cis-1,2-Dichloroethene  
Concen: 228.116 ug/L  
RT: 3.94 min Scan# 885  
Delta R.T. 0.00 min  
Lab File: VV018113.D  
Acq: 27 Aug 2020 13:31

Instrument :  
MSVOA\_V  
ClientSampleId :  
BG3G4

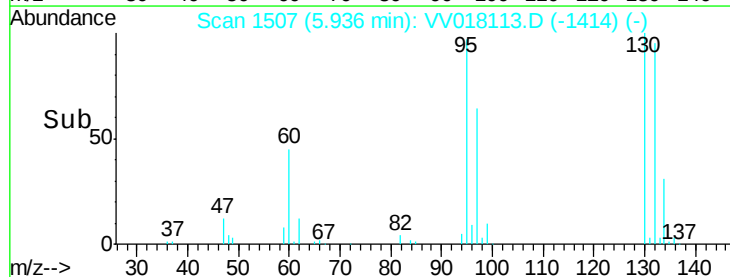
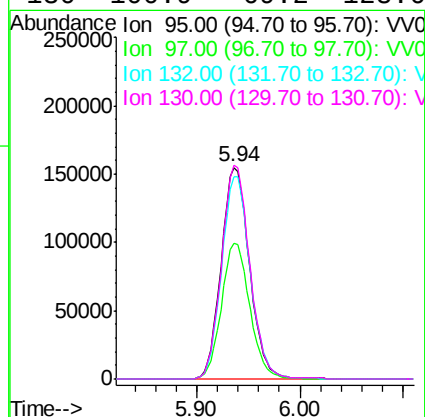
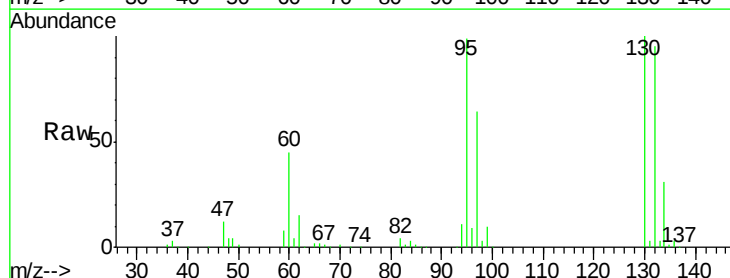
Tot Ion: 96 Resp: 449432  
Ion Ratio Lower Upper  
96 100  
61 134.0 95.0 176.4  
68 0.0 0.0 0.0

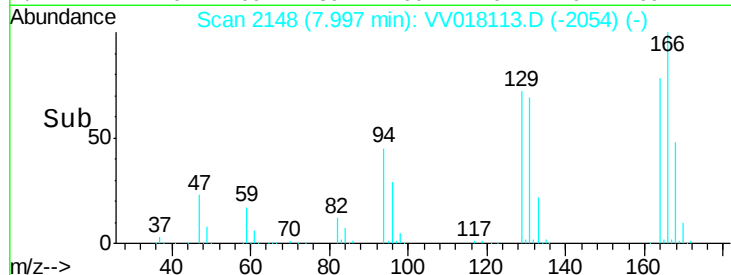
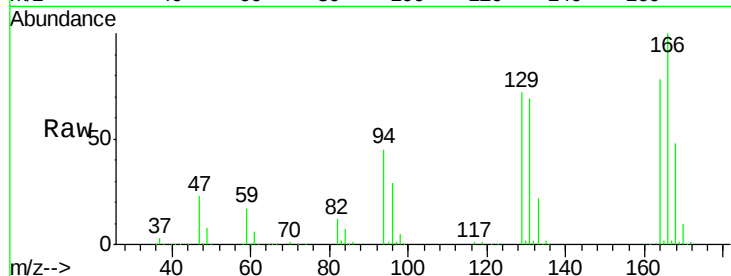
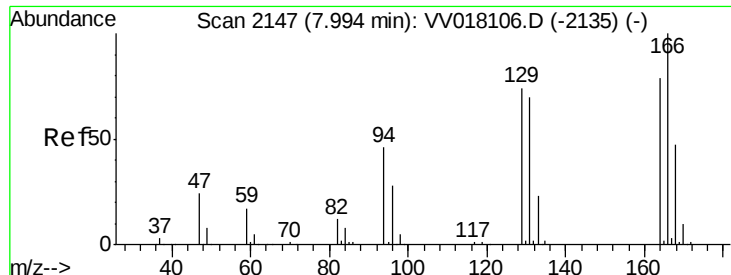


#34

Trichloroethene  
Concen: 141.231 ug/L  
RT: 5.94 min Scan# 1507  
Delta R.T. 0.00 min  
Lab File: VV018113.D  
Acq: 27 Aug 2020 13:31

Tgt Ion: 95 Resp: 297206  
Ion Ratio Lower Upper  
95 100  
97 64.4 46.0 85.4  
132 95.7 65.8 122.2  
130 100.9 69.2 128.6





#46

Tetrachloroethene

Concen: 287.149 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV018113.D

Acq: 27 Aug 2020 13:31

Instrument :

MSVOA\_V

ClientSampleId :

BG3G4

Tot Ion:164 Resp: 443172

Ion Ratio Lower Upper

164 100

129 92.1 64.8 120.3

131 88.4 64.5 119.9

166 127.5 88.9 165.1

Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

