

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV051120\  
 Data File : VV015985.D  
 Acq On : 11 May 2020 13:28  
 Operator : SY/MD  
 Sample : L2520-08DL 5X  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: May 12 01:10:34 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR050720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue May 12 01:07:44 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 145798   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 140282   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 65388    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 29828    | 3.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 75.40%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 30685    | 4.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 81.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 51402    | 3.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 60.40%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 112639   | 49.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.84%  |
| 24) Chloroform-d               | 4.38   | 84    | 81645    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 45788    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.40%  |
| 32) Benzene-d6                 | 5.08   | 84    | 152013   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 49635    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.40%  |
| 41) Toluene-d8                 | 7.34   | 98    | 137952   | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 87.40%  |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 17580    | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 88.00%  |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 77559    | 44.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 88.30%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 34789    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.00%  |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 53070    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.00% |

## Target Compounds

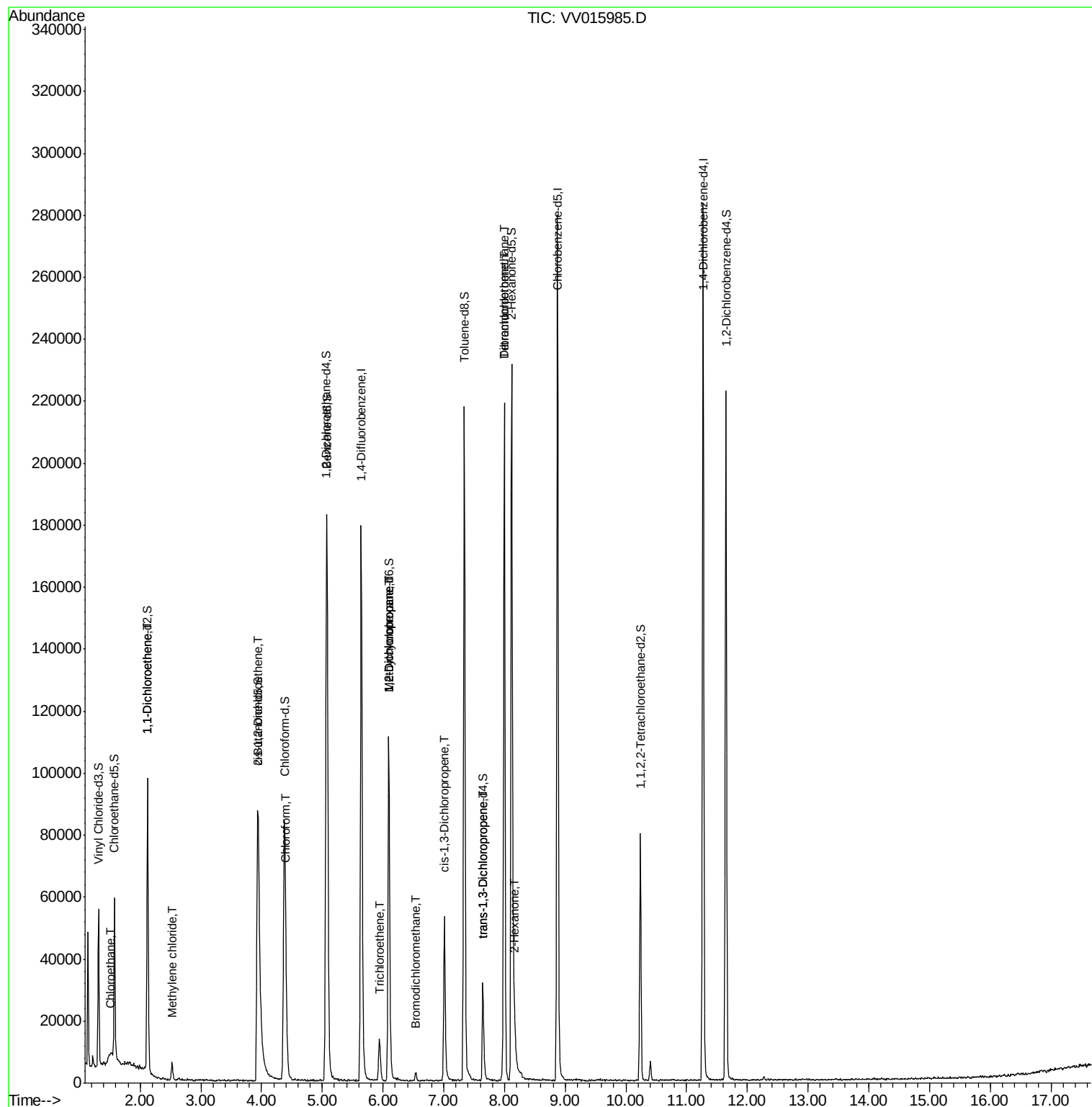
| Target Compounds              | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------------|------|------|----------|-------|--------|--------|
| 8) Chloroethane               | 1.51 | 64   | 1036     | 0.134 | ug/L # | 51     |
| 12) 1,1-Dichloroethene        | 2.12 | 96   | 702      | 0.087 | ug/L # | 1      |
| 16) Methylene chloride        | 2.53 | 84   | 1991     | 0.207 | ug/L   | 89     |
| 22) cis-1,2-Dichloroethene    | 3.94 | 96   | 22956    | 2.473 | ug/L   | 97     |
| 25) Chloroform                | 4.41 | 83   | 15952    | 0.848 | ug/L   | 96     |
| 34) Trichloroethene           | 5.94 | 95   | 4028     | 0.400 | ug/L   | 93     |
| 35) Methylcyclohexane         | 6.09 | 83   | 12165    | 0.798 | ug/L # | 21     |
| 37) 1,2-Dichloropropane       | 6.09 | 63   | 6086     | 0.679 | ug/L # | 87     |
| 38) Bromodichloromethane      | 6.54 | 83   | 2060     | 0.181 | ug/L # | 84     |
| 39) cis-1,3-Dichloropropene   | 7.01 | 75   | 1328     | 0.105 | ug/L # | 69     |
| 46) trans-1,3-Dichloropropene | 7.64 | 75   | 935      | 0.087 | ug/L # | 60     |
| 49) Tetrachloroethene         | 8.00 | 164  | 45229    | 6.435 | ug/L   | 97     |
| 50) 2-Hexanone                | 8.17 | 43   | 5578     | 1.411 | ug/L # | 50     |
| 51) Dibromochloromethane      | 8.00 | 129  | 42613    | 6.333 | ug/L # | 10     |

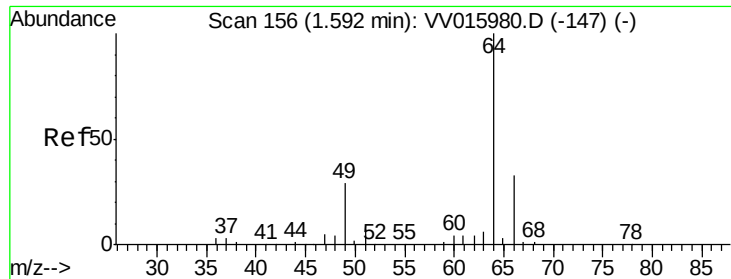
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV051120\  
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Sample : L2520-08DL 5X  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: May 12 01:10:34 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue May 12 01:07:44 2020  
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.134 ug/L

RT: 1.51 min Scan# 131

Delta R.T. -0.08 min

Lab File: VV015985.D

Acq: 11 May 2020 13:28

Instrument :

MSVOA\_V

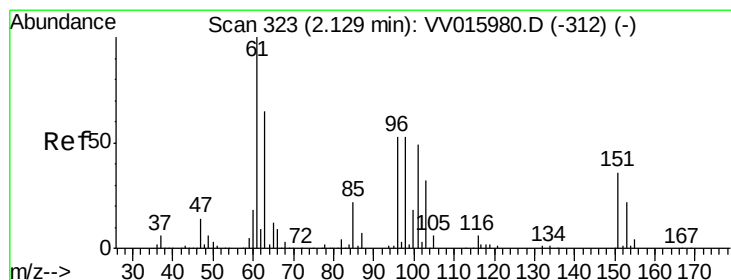
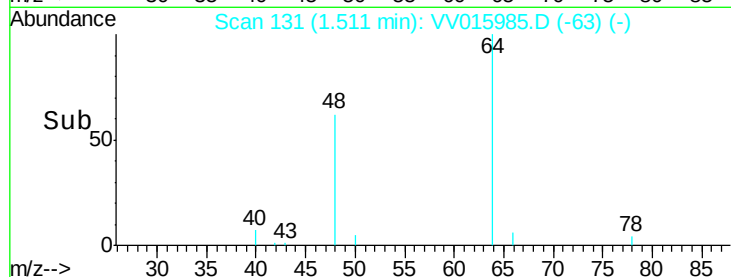
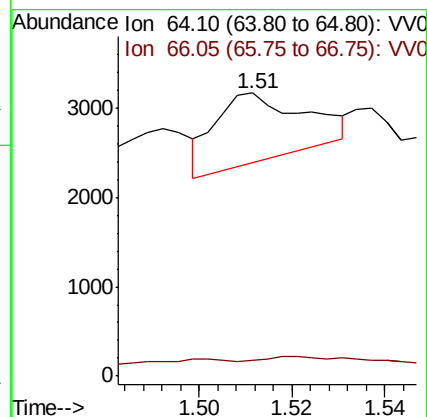
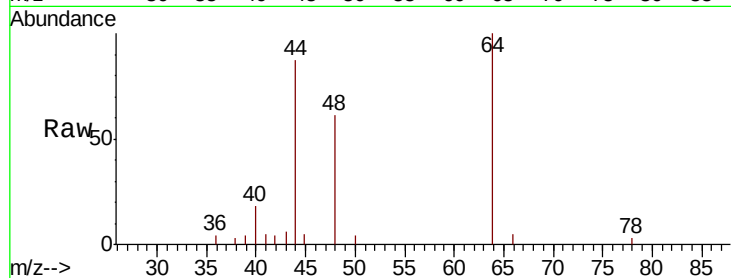
ClientSampleId :

Tot Ion: 64 Resp: 1036

Ion Ratio Lower Upper

64 100

66 5.5 23.6 43.8#



#12

1,1-Dichloroethene

Concen: 0.087 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV015985.D

Acq: 11 May 2020 13:28

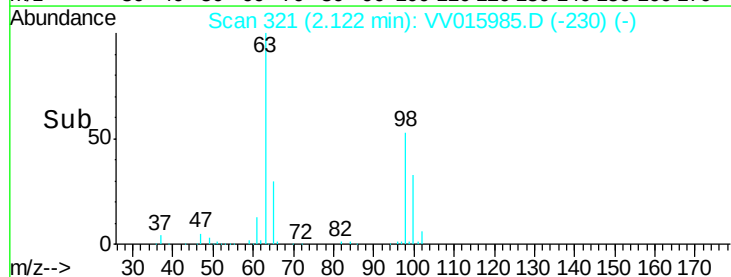
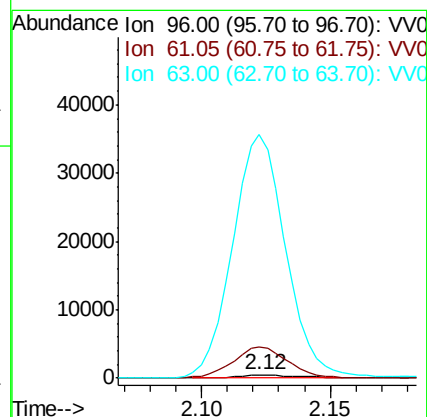
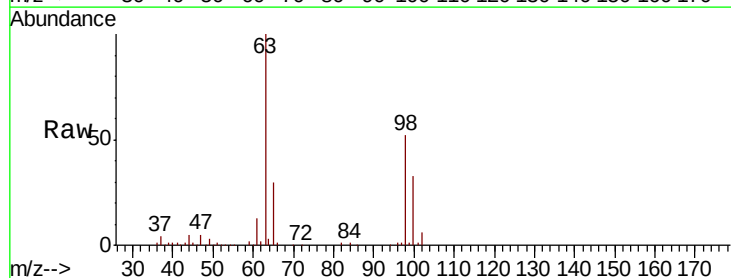
Tgt Ion: 96 Resp: 702

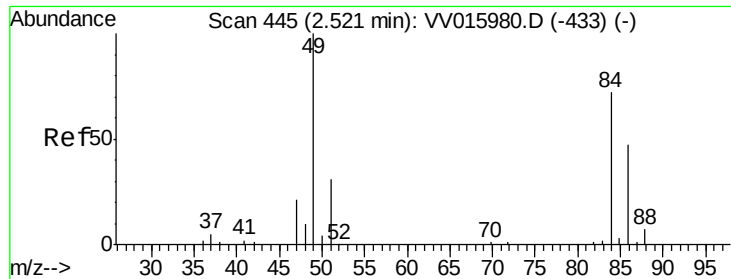
Ion Ratio Lower Upper

96 100

61 1068.5 139.9 259.7#

63 8193.1 106.4 197.6#

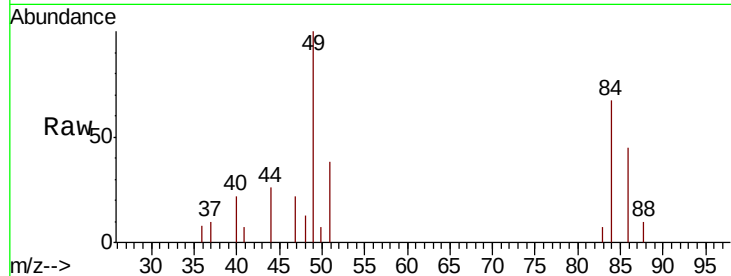




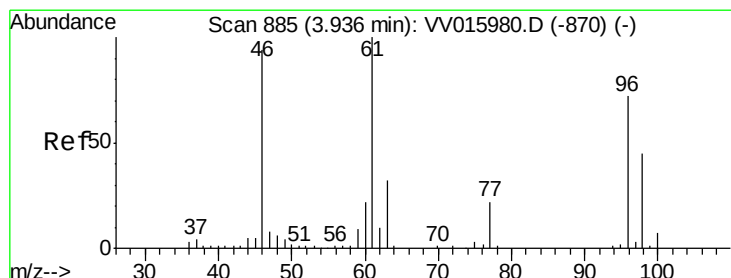
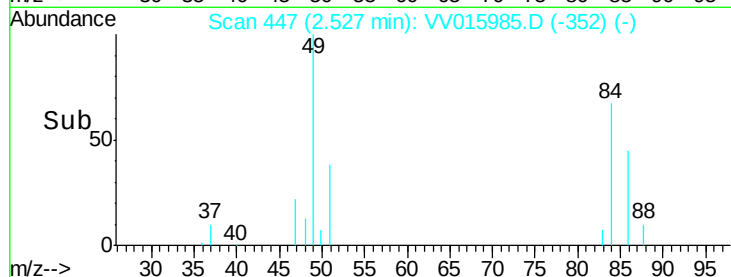
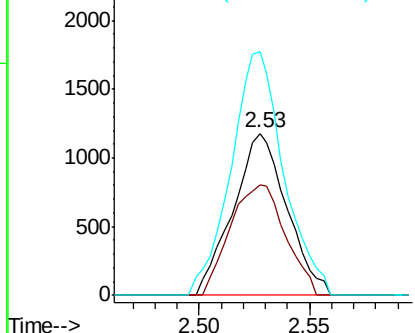
#16  
Methylene chloride  
Concen: 0.207 ug/L  
RT: 2.53 min Scan# 447  
Delta R.T. 0.01 min  
Lab File: VV015985.D  
Acq: 11 May 2020 13:28

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 84 Resp: 1991  
Ion Ratio Lower Upper  
84 100  
86 68.1 45.6 84.8  
49 150.2 93.6 173.8

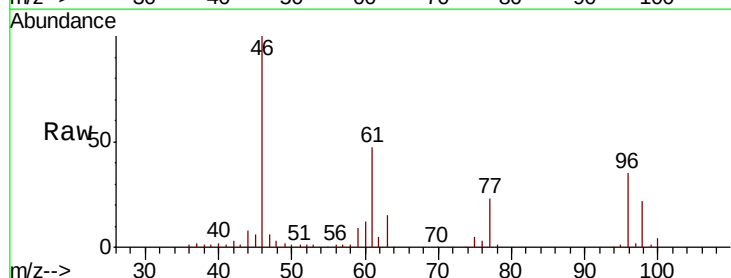


Abundance Ion 84.05 (83.75 to 84.75): VV0  
Ion 86.00 (85.70 to 86.70): VV0  
Ion 49.10 (48.80 to 49.80): VV0

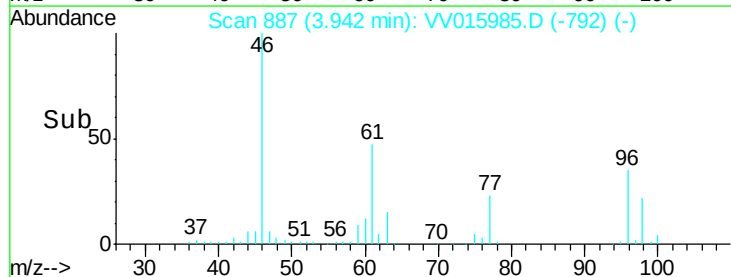
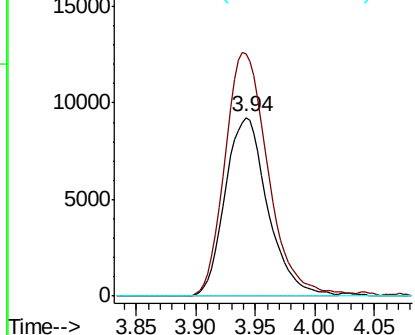


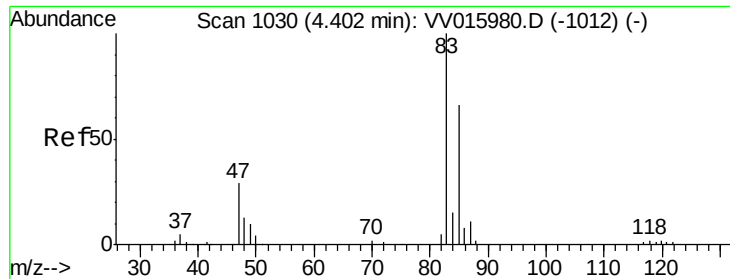
#22  
cis-1,2-Dichloroethene  
Concen: 2.473 ug/L  
RT: 3.94 min Scan# 887  
Delta R.T. 0.01 min  
Lab File: VV015985.D  
Acq: 11 May 2020 13:28

Tgt Ion: 96 Resp: 22956  
Ion Ratio Lower Upper  
96 100  
61 135.5 97.2 180.6  
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0  
Ion 61.05 (60.75 to 61.75): VV0  
Ion 68.15 (67.85 to 68.85): VV0

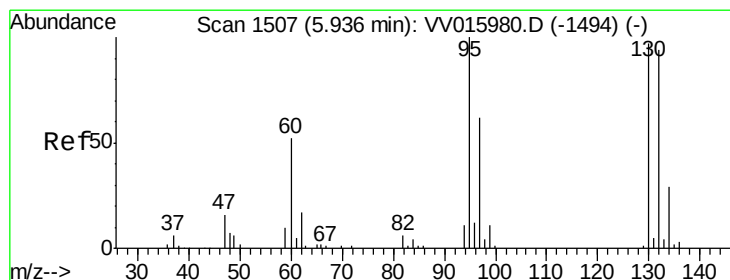
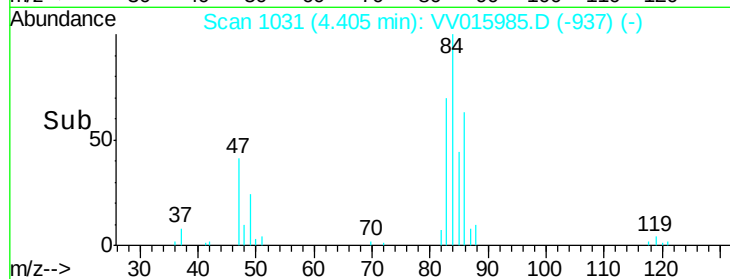
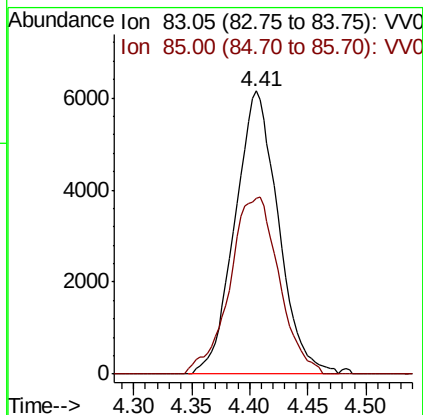
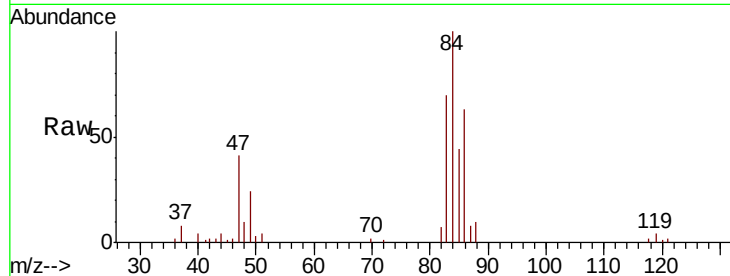




#25  
Chloroform  
Concen: 0.848 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV015985.D  
Acq: 11 May 2020 13:28

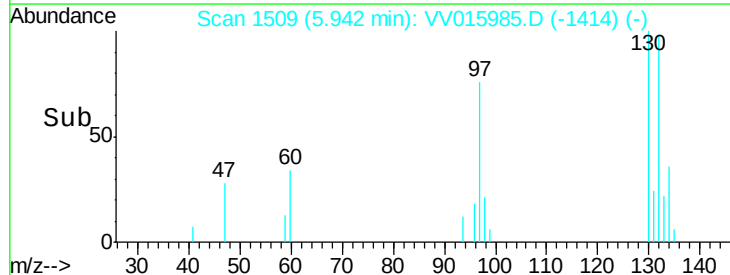
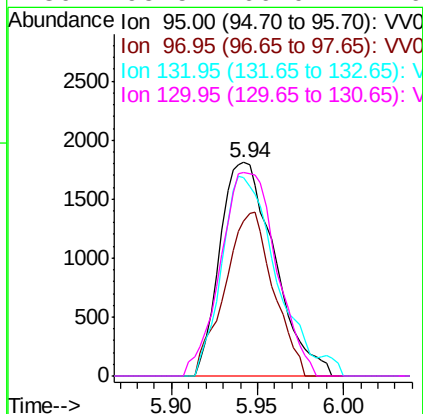
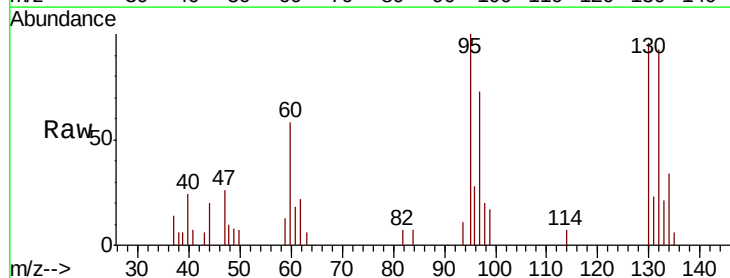
Instrument :  
MSVOA\_V  
ClientSampleId :

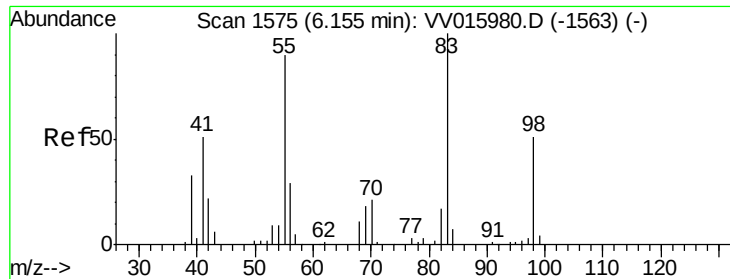
Tot Ion: 83 Resp: 15952  
Ion Ratio Lower Upper  
83 100  
85 62.2 45.7 84.9



#34  
Trichloroethene  
Concen: 0.400 ug/L  
RT: 5.94 min Scan# 1509  
Delta R.T. 0.01 min  
Lab File: VV015985.D  
Acq: 11 May 2020 13:28

Tgt Ion: 95 Resp: 4028  
Ion Ratio Lower Upper  
95 100  
97 72.5 43.3 80.5  
132 93.2 60.3 112.1  
130 95.5 66.0 122.6

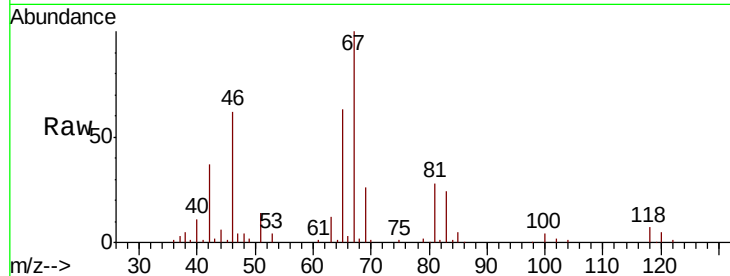




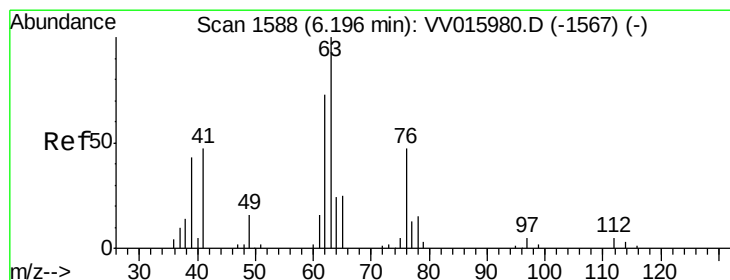
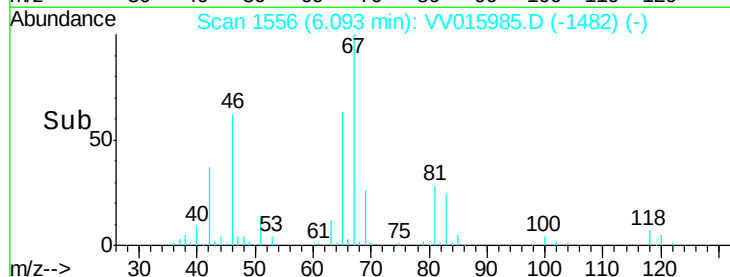
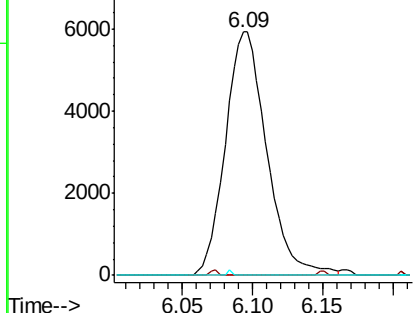
#35  
Methvlcvclohexane  
Concen: 0.798 ug/L  
RT: 6.09 min Scan# 1556  
Delta R.T. -0.06 min  
Lab File: VV015985.D  
Acq: 11 May 2020 13:28

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 83 Resp: 12165  
Ion Ratio Lower Upper  
83 100  
55 0.4 66.2 99.2#  
98 9.9 37.9 56.9#

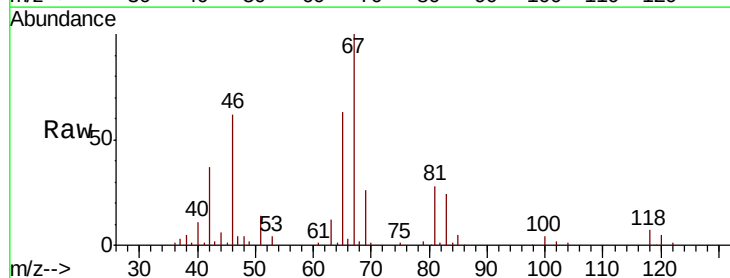


Abundance Ion 83.15 (82.85 to 83.85): VV0  
Ion 55.10 (54.80 to 55.80): VV0  
Ion 98.15 (97.85 to 98.85): VV0

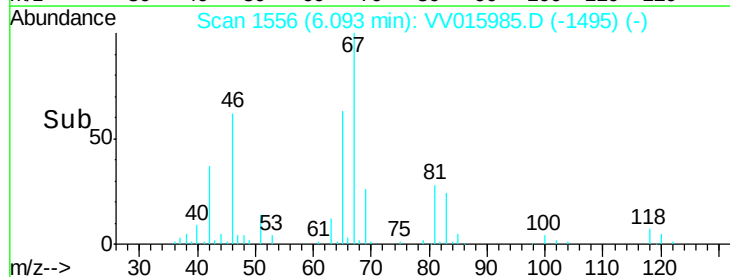
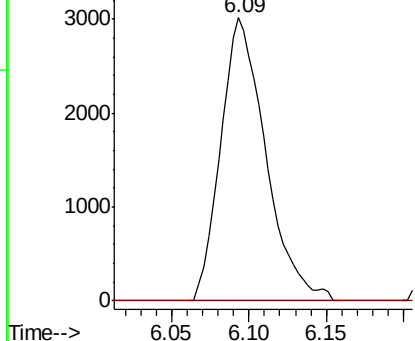


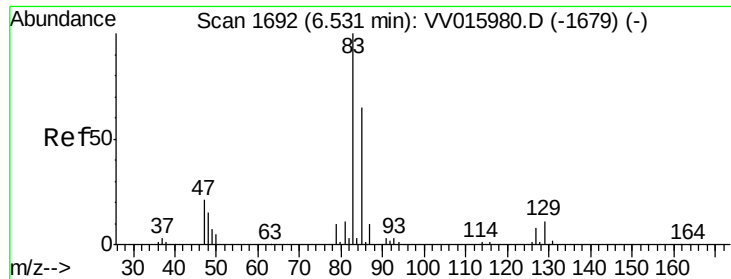
#37  
1,2-Dichloropropane  
Concen: 0.679 ug/L  
RT: 6.09 min Scan# 1556  
Delta R.T. -0.10 min  
Lab File: VV015985.D  
Acq: 11 May 2020 13:28

Tgt Ion: 63 Resp: 6086  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV0  
Ion 112.10 (111.80 to 112.80): V

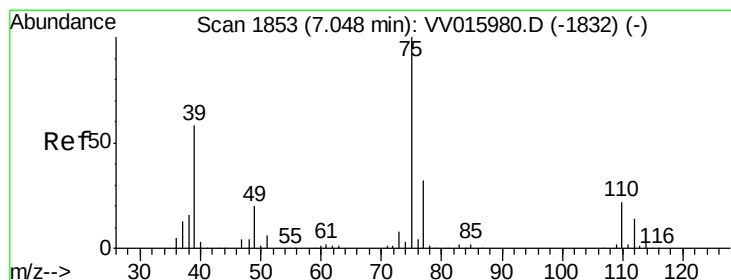
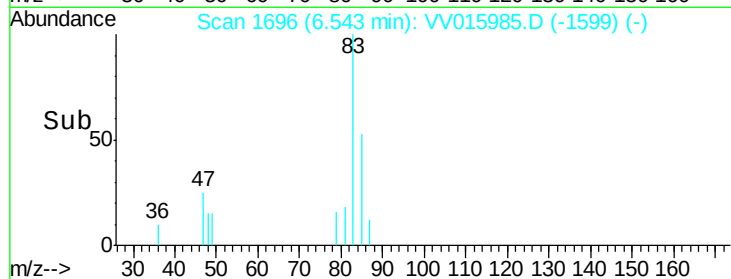
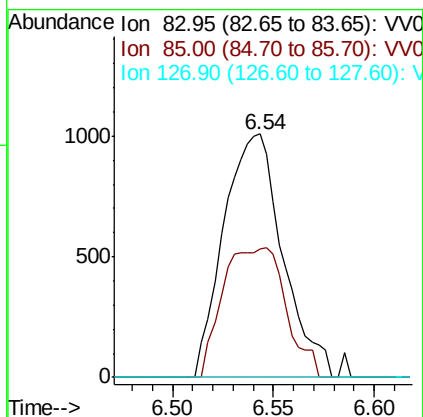
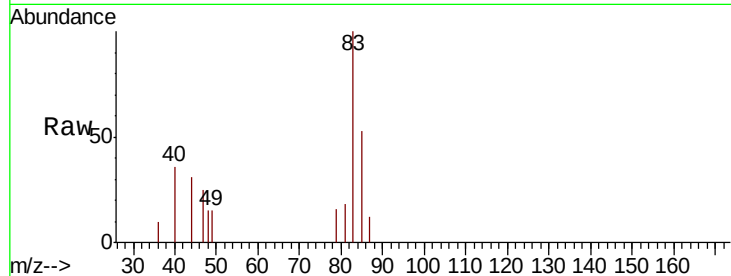




#38  
 Bromodichloromethane  
 Concen: 0.181 ug/L  
 RT: 6.54 min Scan# 1696  
 Delta R.T. 0.01 min  
 Lab File: VV015985.D  
 Acq: 11 May 2020 13:28

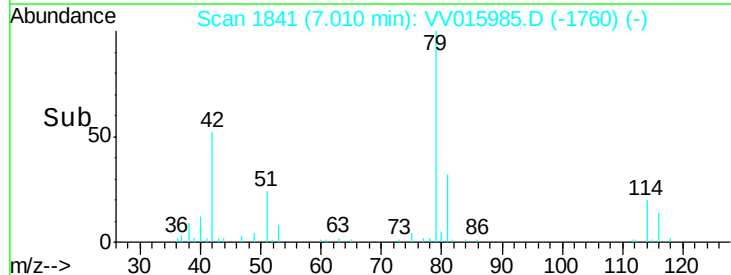
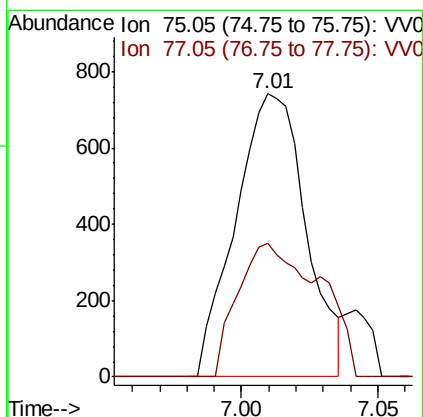
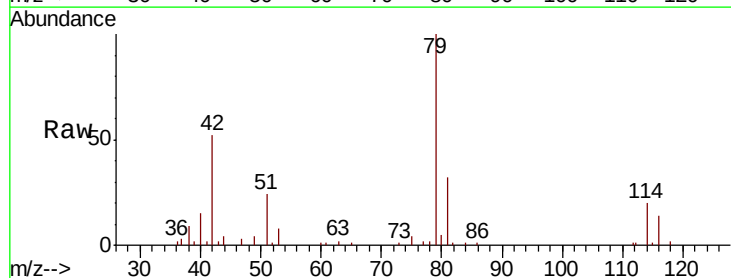
Instrument :  
 MSVOA\_V  
 ClientSampled :

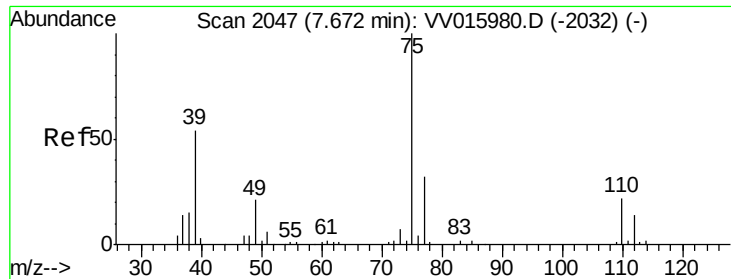
Tot Ion: 83 Resp: 2060  
 Ion Ratio Lower Upper  
 83 100  
 85 52.6 45.5 84.5  
 127 0.0 6.2 9.4#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.105 ug/L  
 RT: 7.01 min Scan# 1841  
 Delta R.T. -0.04 min  
 Lab File: VV015985.D  
 Acq: 11 May 2020 13:28

Tgt Ion: 75 Resp: 1328  
 Ion Ratio Lower Upper  
 75 100  
 77 47.0 21.3 39.5#





#46

trans-1,3-Dichloropropene

Concen: 0.087 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV015985.D

Acq: 11 May 2020 13:28

Instrument :

MSVOA\_V

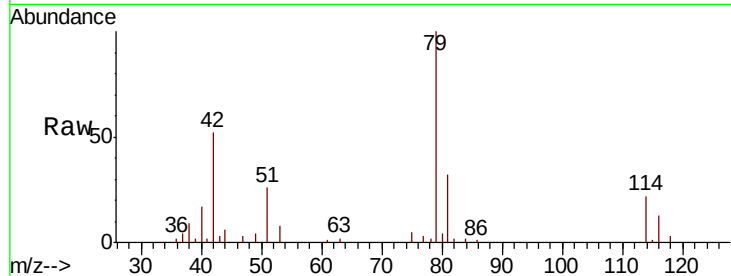
ClientSampled :

Tot Ion: 75 Resp: 935

Ion Ratio Lower Upper

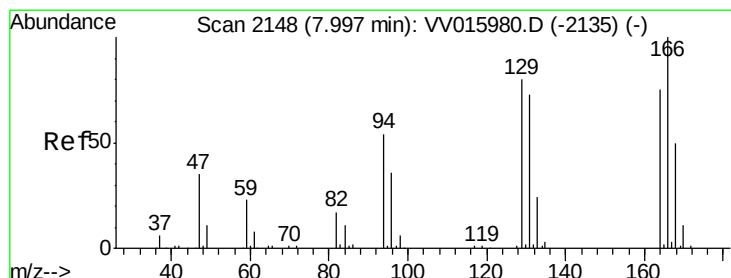
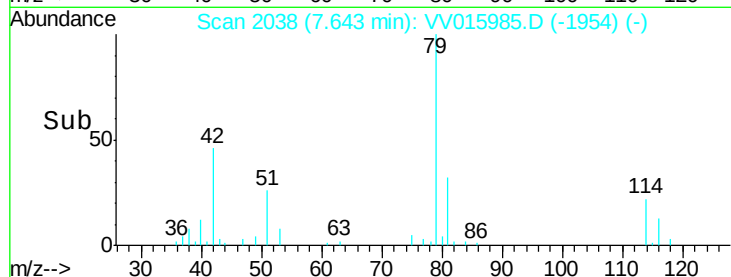
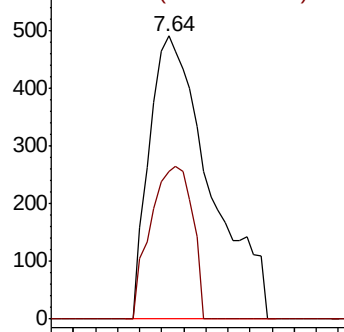
75 100

77 52.1 21.3 39.6#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#49

Tetrachloroethene

Concen: 6.435 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VV015985.D

Acq: 11 May 2020 13:28

Tgt Ion: 164 Resp: 45229

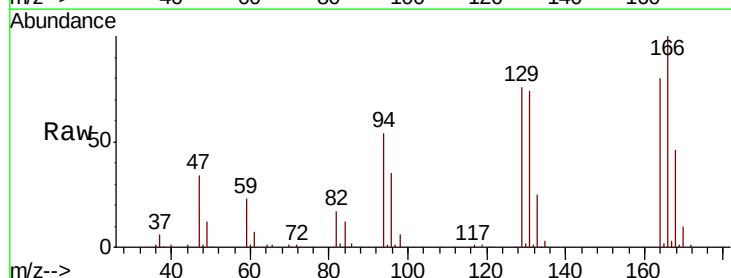
Ion Ratio Lower Upper

164 100

129 94.4 69.7 129.4

131 92.3 66.8 124.2

166 124.7 89.1 165.5

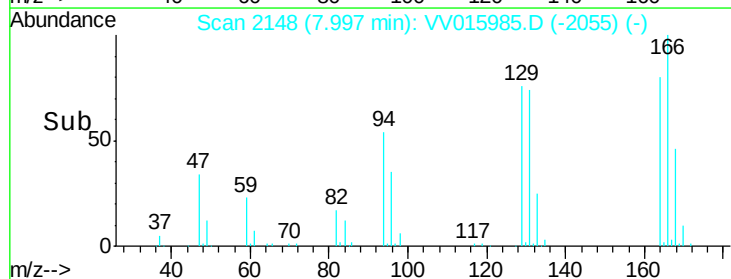
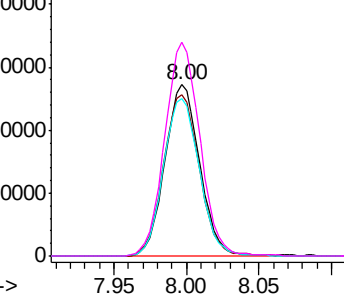


Abundance Ion 163.90 (163.60 to 164.60): V

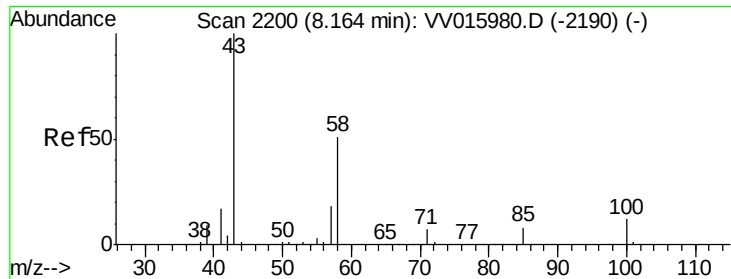
Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



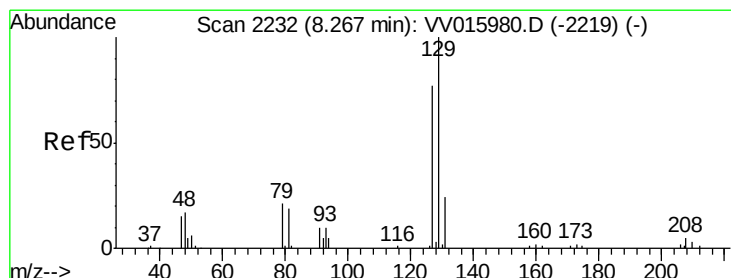
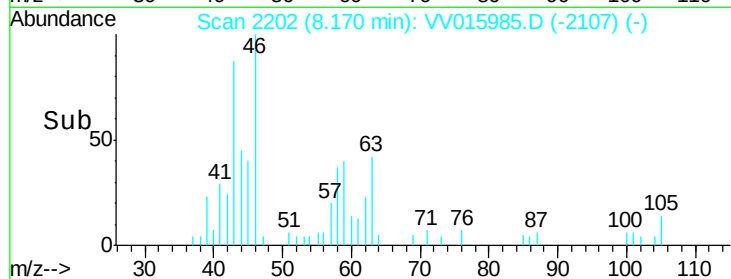
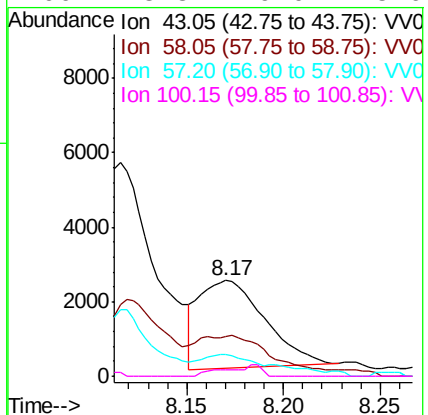
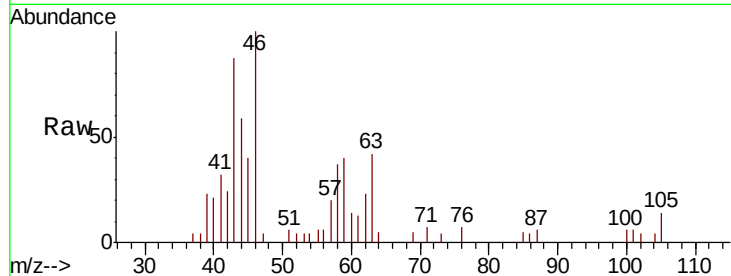




#50  
2-Hexanone  
Concen: 1.411 ug/L  
RT: 8.17 min Scan# 2202  
Delta R.T. 0.01 min  
Lab File: VV015985.D  
Acq: 11 May 2020 13:28

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 5578  
Ion Ratio Lower Upper  
43 100  
58 3.4 40.8 61.2#  
57 26.9 14.7 22.1#  
100 3.3 9.0 13.6#



#51  
Dibromochloromethane  
Concen: 6.333 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. -0.27 min  
Lab File: VV015985.D  
Acq: 11 May 2020 13:28

Tgt Ion: 129 Resp: 42613  
Ion Ratio Lower Upper  
129 100  
127 0.5 56.0 104.0#

