

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV041620\  
 Data File : VV015535.D  
 Acq On : 16 Apr 2020 14:38  
 Operator : SY/MD  
 Sample : L2320-02  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Apr 17 00:49:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Apr 17 00:46:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 105962   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 99995    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 49294    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 26815    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.60%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 24434    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 38363    | 3.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 66.20%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 75806    | 49.11    | ug/L | 0.03    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 98.22%  |
| 24) Chloroform-d               | 4.38   | 84    | 54960    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 32456    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.00%  |
| 32) Benzene-d6                 | 5.07   | 84    | 110696   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 34965    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.20% |
| 41) Toluene-d8                 | 7.34   | 98    | 99362    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.80%  |
| 43) trans-1,3-Dichloropropene- | 7.65   | 79    | 14001    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.20%  |
| 46) 2-Hexanone-d5              | 8.12   | 63    | 62501    | 43.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 86.26%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 22503    | 4.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 82.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 36984    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.40%  |

## Target Compounds

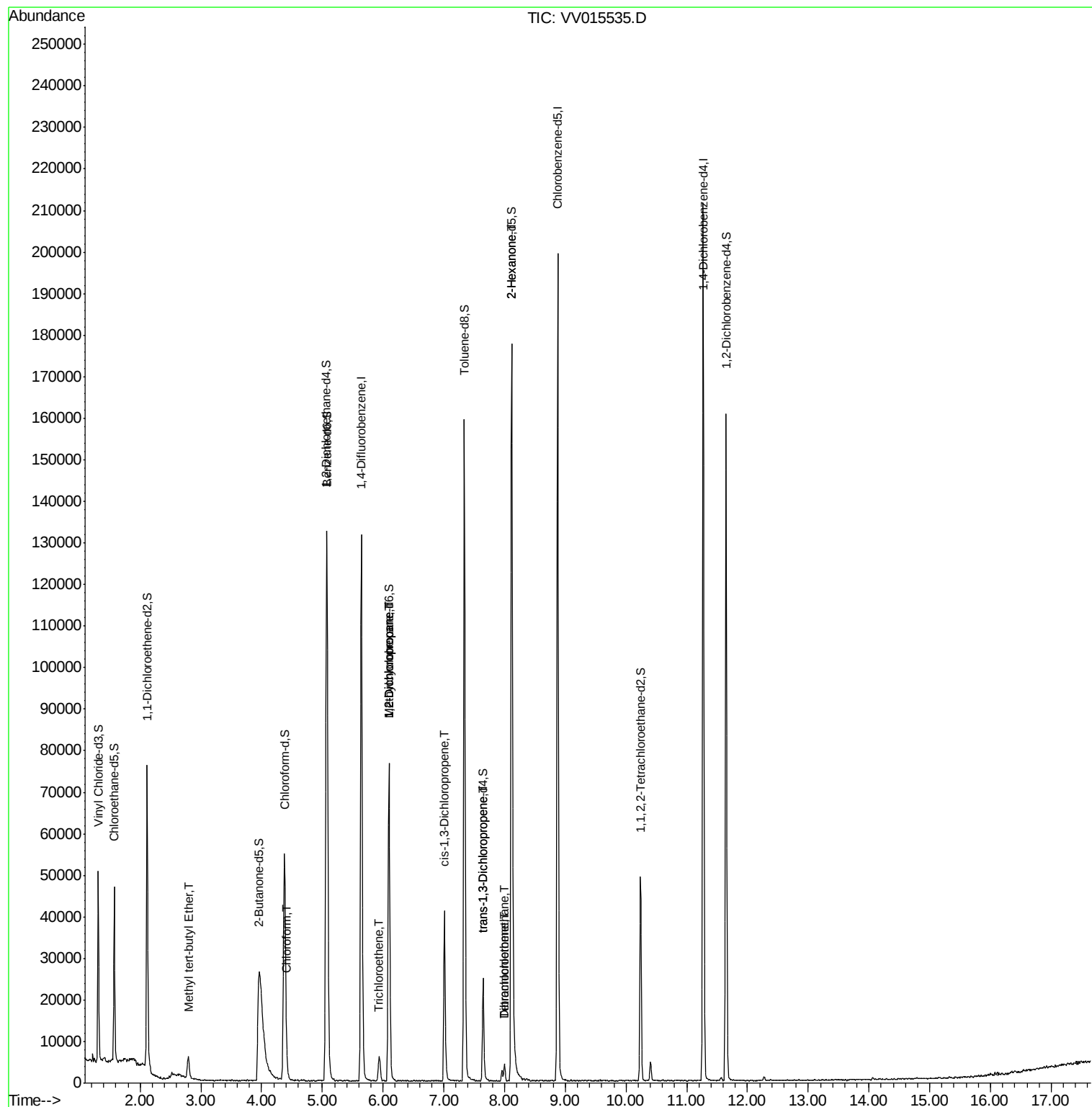
|                               |      |     |      |              | Ovalue |
|-------------------------------|------|-----|------|--------------|--------|
| 17) Methyl tert-butyl Ether   | 2.79 | 73  | 5449 | 0.307 ug/L   | 98     |
| 25) Chloroform                | 4.42 | 83  | 2164 | 0.150 ug/L   | 90     |
| 34) Trichloroethene           | 5.95 | 95  | 1593 | 0.198 ug/L   | 94     |
| 35) Methylcyclohexane         | 6.09 | 83  | 8496 | 0.626 ug/L # | 19     |
| 37) 1,2-Dichloropropane       | 6.10 | 63  | 4351 | 0.586 ug/L # | 86     |
| 39) cis-1,3-Dichloropropene   | 7.01 | 75  | 1052 | 0.092 ug/L # | 68     |
| 44) trans-1,3-Dichloropropene | 7.65 | 75  | 638  | 0.066 ug/L # | 82     |
| 47) Tetrachloroethene         | 8.00 | 164 | 887  | 0.149 ug/L   | 94     |
| 48) 2-Hexanone                | 8.12 | 43  | 9104 | 2.673 ug/L # | 71     |
| 49) Dibromochloromethane      | 8.00 | 129 | 923  | 0.154 ug/L # | 10     |

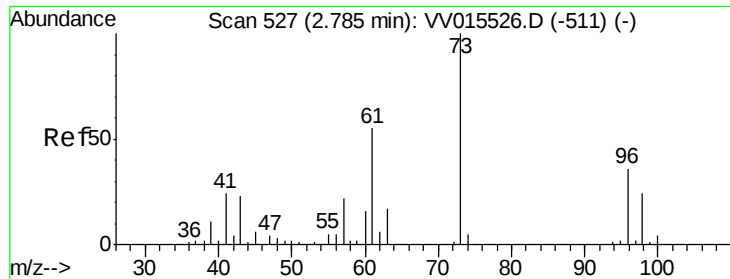
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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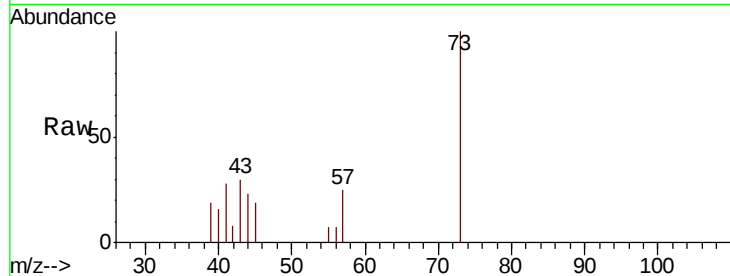




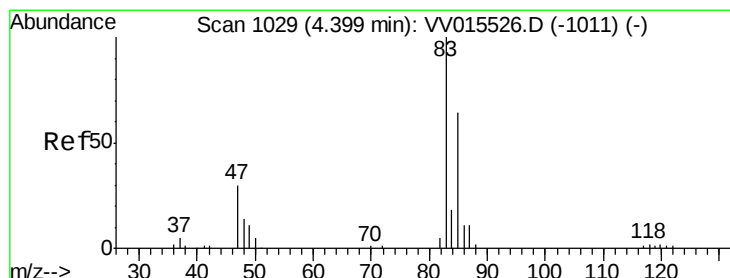
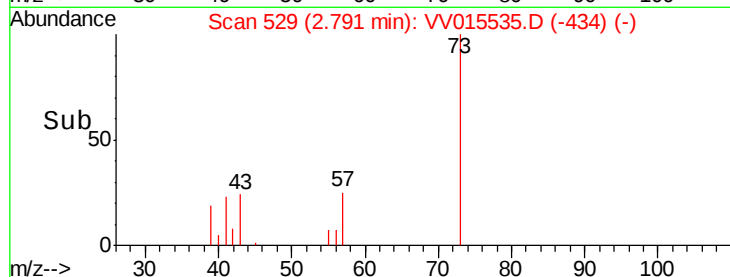
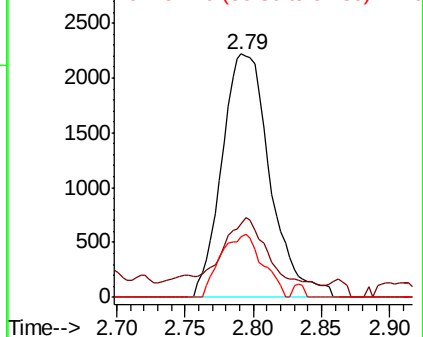
#17  
Methvl tert-butvl Ether  
Concen: 0.307 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. 0.01 min  
Lab File: VV015535.D  
Acq: 16 Apr 2020 14:38

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 73 Resp: 5449  
Ion Ratio Lower Upper  
73 100  
43 24.5 18.3 27.5  
57 22.6 18.4 27.6

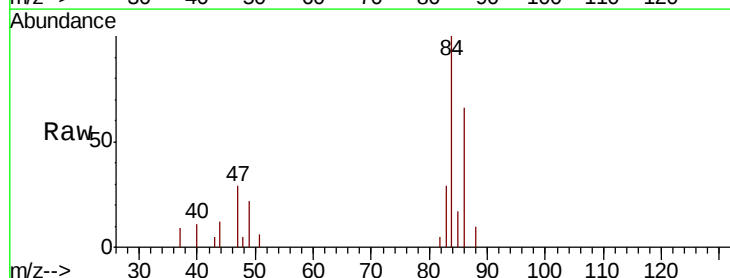


Abundance Ion 73.10 (72.80 to 73.80): VV0  
Ion 43.05 (42.75 to 43.75): VV0  
Ion 57.10 (56.80 to 57.80): VV0

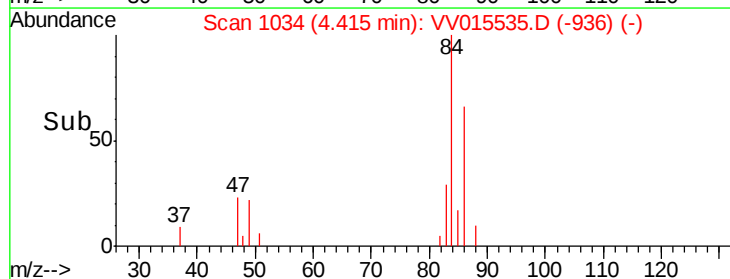
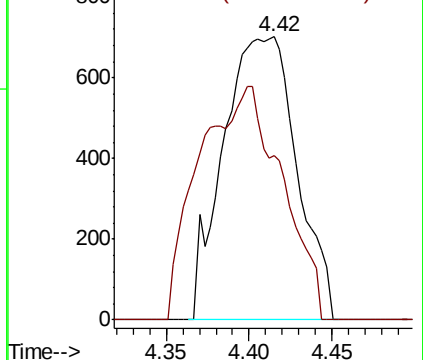


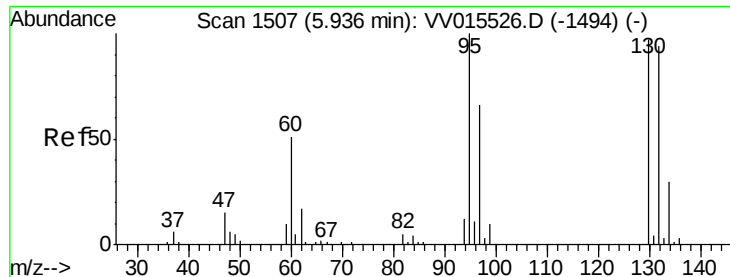
#25  
Chloroform  
Concen: 0.150 ug/L  
RT: 4.42 min Scan# 1034  
Delta R.T. 0.02 min  
Lab File: VV015535.D  
Acq: 16 Apr 2020 14:38

Tgt Ion: 83 Resp: 2164  
Ion Ratio Lower Upper  
83 100  
85 57.8 45.9 85.3



Abundance Ion 83.05 (82.75 to 83.75): VV0  
Ion 85.00 (84.70 to 85.70): VV0





#34

Trichloroethene

Concen: 0.198 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV015535.D

Acq: 16 Apr 2020 14:38

Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion: 95 Resp: 1593

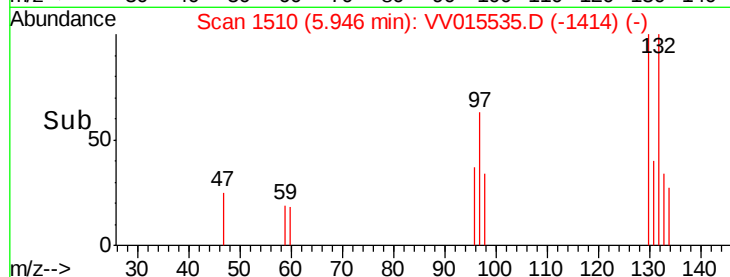
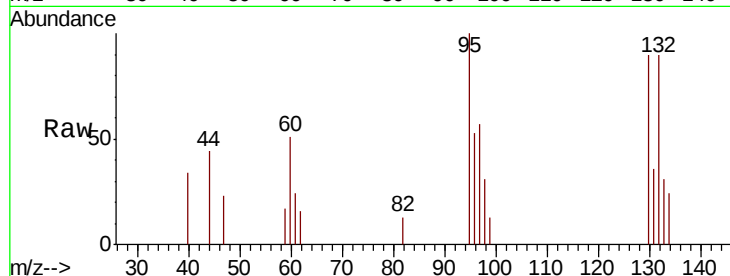
Ion Ratio Lower Upper

95 100

97 56.9 45.4 84.4

132 90.0 64.8 120.4

130 90.3 67.4 125.2



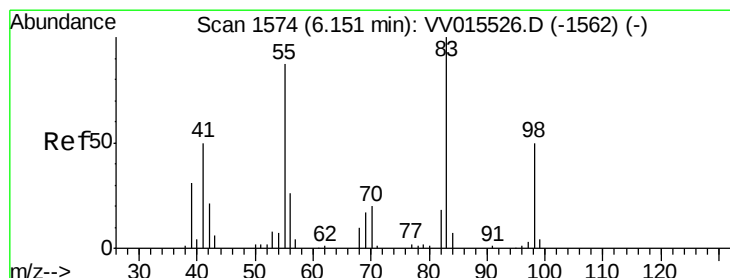
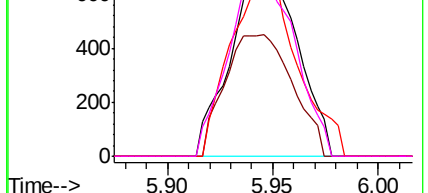
Abundance Ion 95.00 (94.70 to 95.70): VV015535.D (-1414) (-)

Ion 96.95 (96.65 to 97.65): VV015535.D (-1414) (-)

Ion 131.95 (131.65 to 132.65): VV015535.D (-1414) (-)

Ion 129.95 (129.65 to 130.65): VV015535.D (-1414) (-)

Time-->



#35

Methylcyclohexane

Concen: 0.626 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.06 min

Lab File: VV015535.D

Acq: 16 Apr 2020 14:38

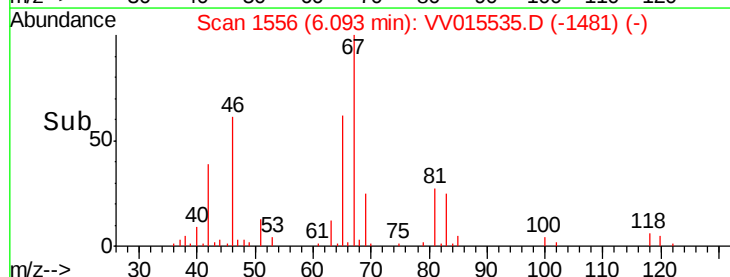
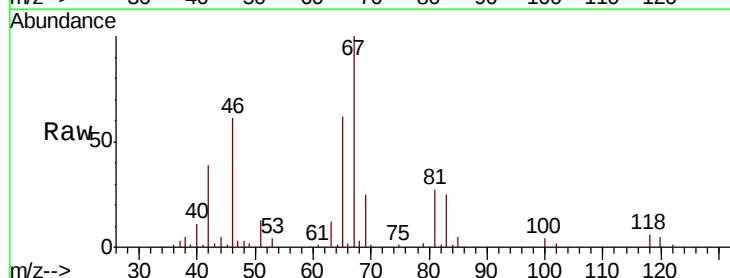
Tgt Ion: 83 Resp: 8496

Ion Ratio Lower Upper

83 100

55 0.0 66.6 99.8#

98 6.2 38.7 58.1#

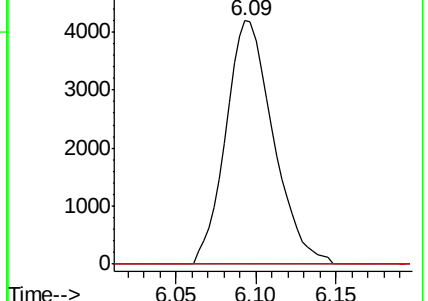


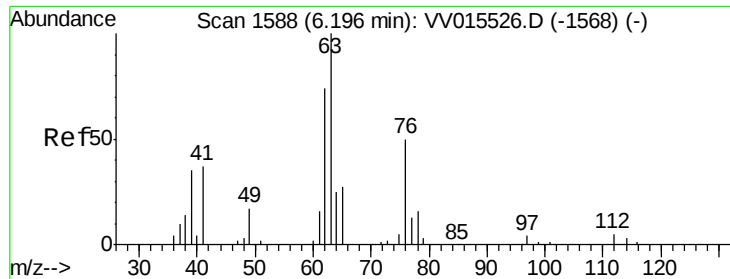
Abundance Ion 83.15 (82.85 to 83.85): VV015535.D (-1481) (-)

Ion 55.10 (54.80 to 55.80): VV015535.D (-1481) (-)

Ion 98.15 (97.85 to 98.85): VV015535.D (-1481) (-)

Time-->

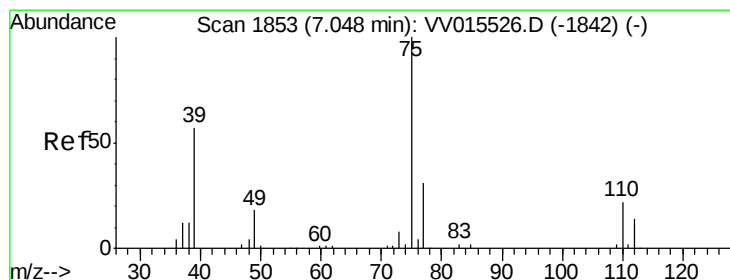
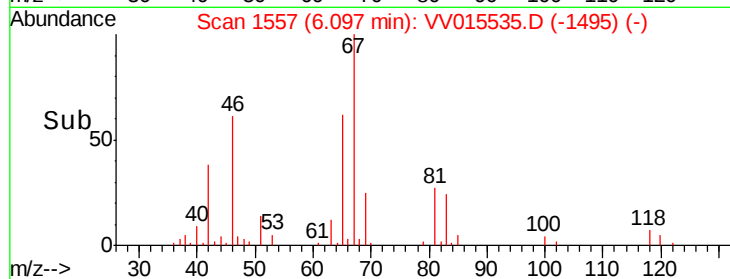
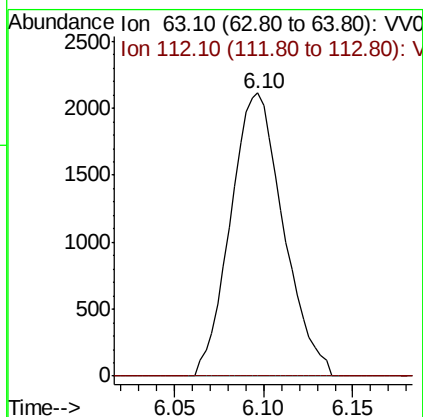
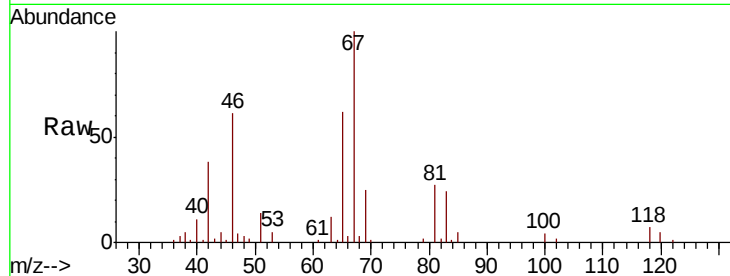




#37  
 1,2-Dichloropropane  
 Concen: 0.586 ug/L  
 RT: 6.10 min Scan# 1557  
 Delta R.T. -0.10 min  
 Lab File: VV015535.D  
 Acq: 16 Apr 2020 14:38

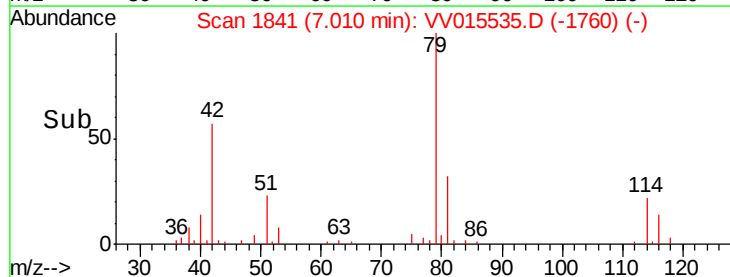
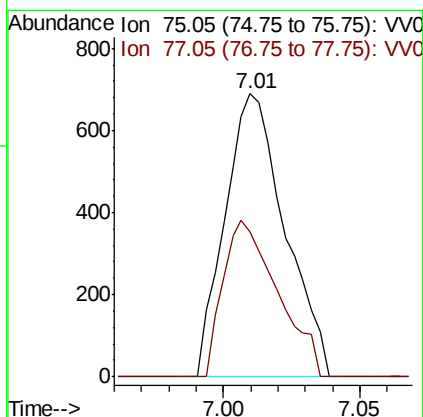
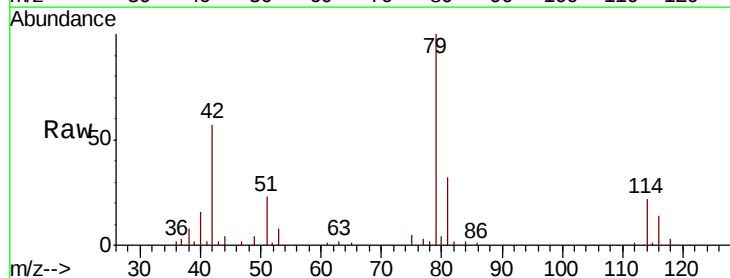
Instrument :  
 MSVOA\_V  
 ClientSampleId :

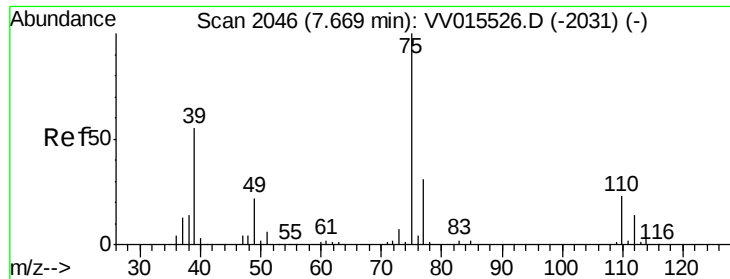
Tot Ion: 63 Resp: 4351  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.6 5.4#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.092 ug/L  
 RT: 7.01 min Scan# 1841  
 Delta R.T. -0.04 min  
 Lab File: VV015535.D  
 Acq: 16 Apr 2020 14:38

Tgt Ion: 75 Resp: 1052  
 Ion Ratio Lower Upper  
 75 100  
 77 51.1 23.0 42.6#





#44

trans-1,3-Dichloropropene

Concen: 0.066 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.02 min

Lab File: VV015535.D

Acq: 16 Apr 2020 14:38

Instrument :

MSVOA\_V

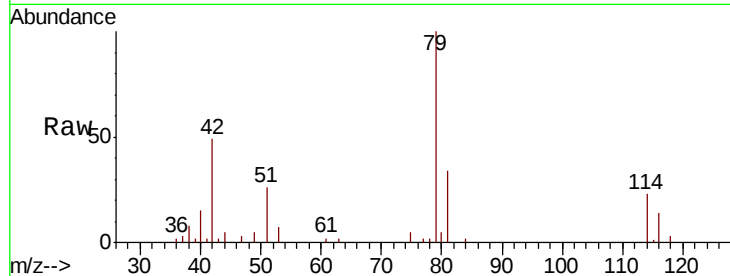
ClientSampleId :

Tot Ion: 75 Resp: 638

Ion Ratio Lower Upper

75 100

77 39.6 21.0 39.0#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.65

400

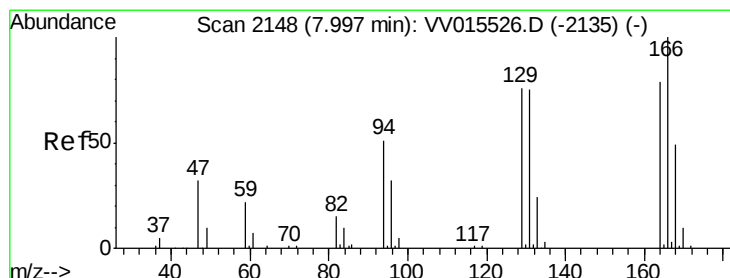
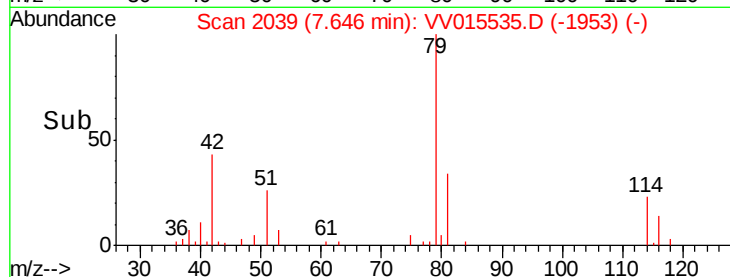
300

200

100

0

Time-->



#47

Tetrachloroethene

Concen: 0.149 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VV015535.D

Acq: 16 Apr 2020 14:38

Tgt Ion:164 Resp: 887

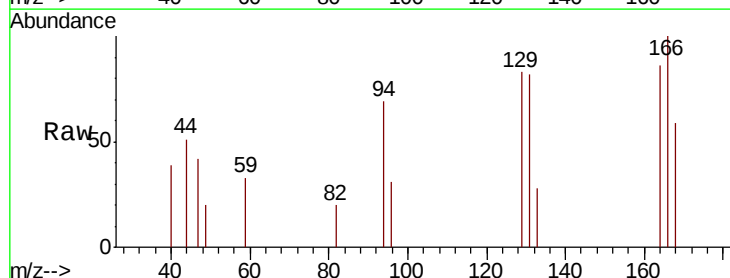
Ion Ratio Lower Upper

164 100

129 96.5 70.6 131.0

131 94.6 68.3 126.8

166 116.0 88.3 163.9



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

800

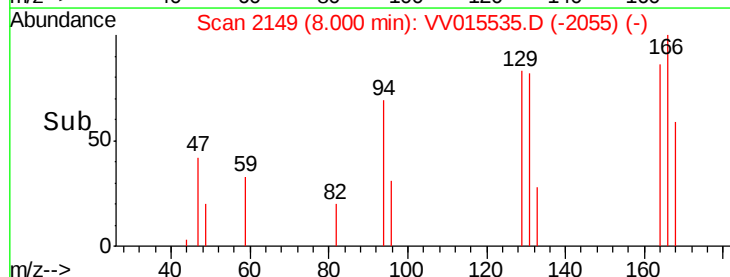
600

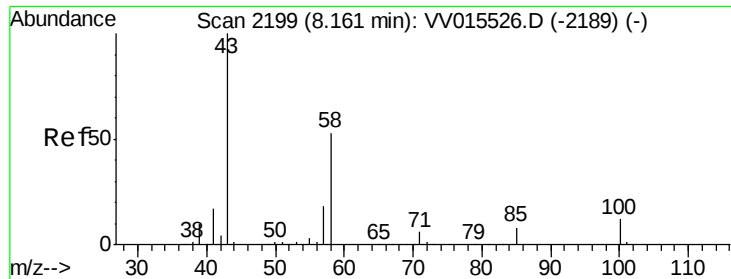
400

200

0

Time-->

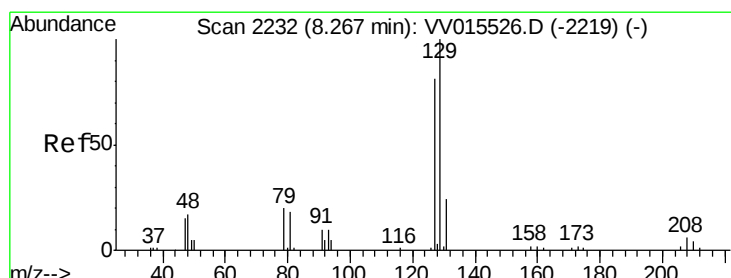
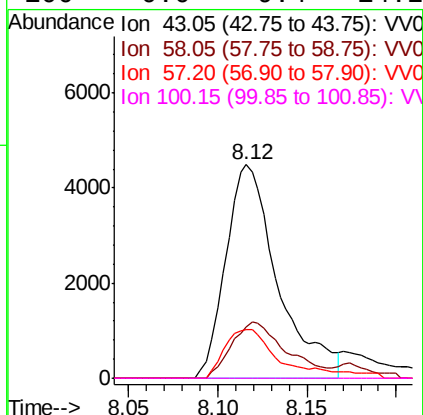
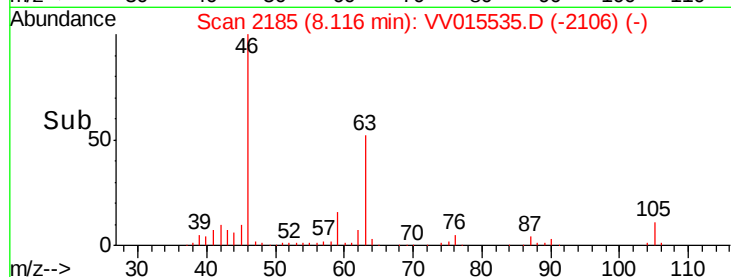
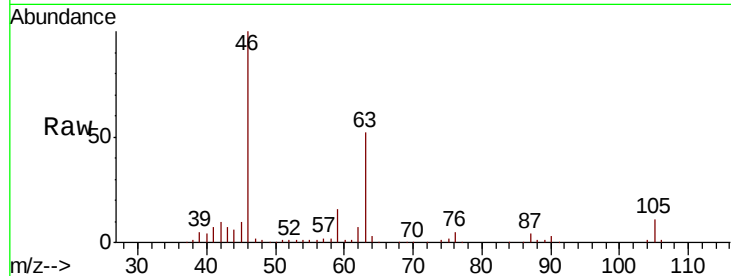




#48  
2-Hexanone  
Concen: 2.673 ug/L  
RT: 8.12 min Scan# 2185  
Delta R.T. -0.04 min  
Lab File: VV015535.D  
Acq: 16 Apr 2020 14:38

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 9104  
Ion Ratio Lower Upper  
43 100  
58 27.5 41.4 62.0#  
57 25.0 15.0 22.4#  
100 0.0 9.4 14.2#



#49  
Dibromochloromethane  
Concen: 0.154 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. -0.27 min  
Lab File: VV015535.D  
Acq: 16 Apr 2020 14:38

Tgt Ion: 129 Resp: 923  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.7 101.7#

