

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080720\  
 Data File : VW016090.D  
 Acq On : 07 Aug 2020 23:19  
 Operator : SY/VA  
 Sample : L3564-10  
 Misc : 6.17G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 08 05:12:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072020S.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Aug 08 05:08:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 372525   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 317431   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 121811   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 74148    | 14.11    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 56.44%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 66348    | 15.54    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 62.16%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 130001   | 12.23    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 48.92%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 41365    | 29.96    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 59.92%  |
| 24) Chloroform-d               | 7.65   | 84    | 206112   | 19.70    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 78.80%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 100361   | 17.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 69.88%# |
| 29) Benzene-d6                 | 8.27   | 84    | 402710   | 20.84    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 83.36%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 120979   | 20.89    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 83.56%  |
| 37) Toluene-d8                 | 10.32  | 98    | 356346   | 20.36    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 81.44%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 43516    | 17.63    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 70.52%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 34811    | 36.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 72.18%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 86694    | 19.47    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 77.88%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 104793   | 22.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 88.24%  |

## Target Compounds

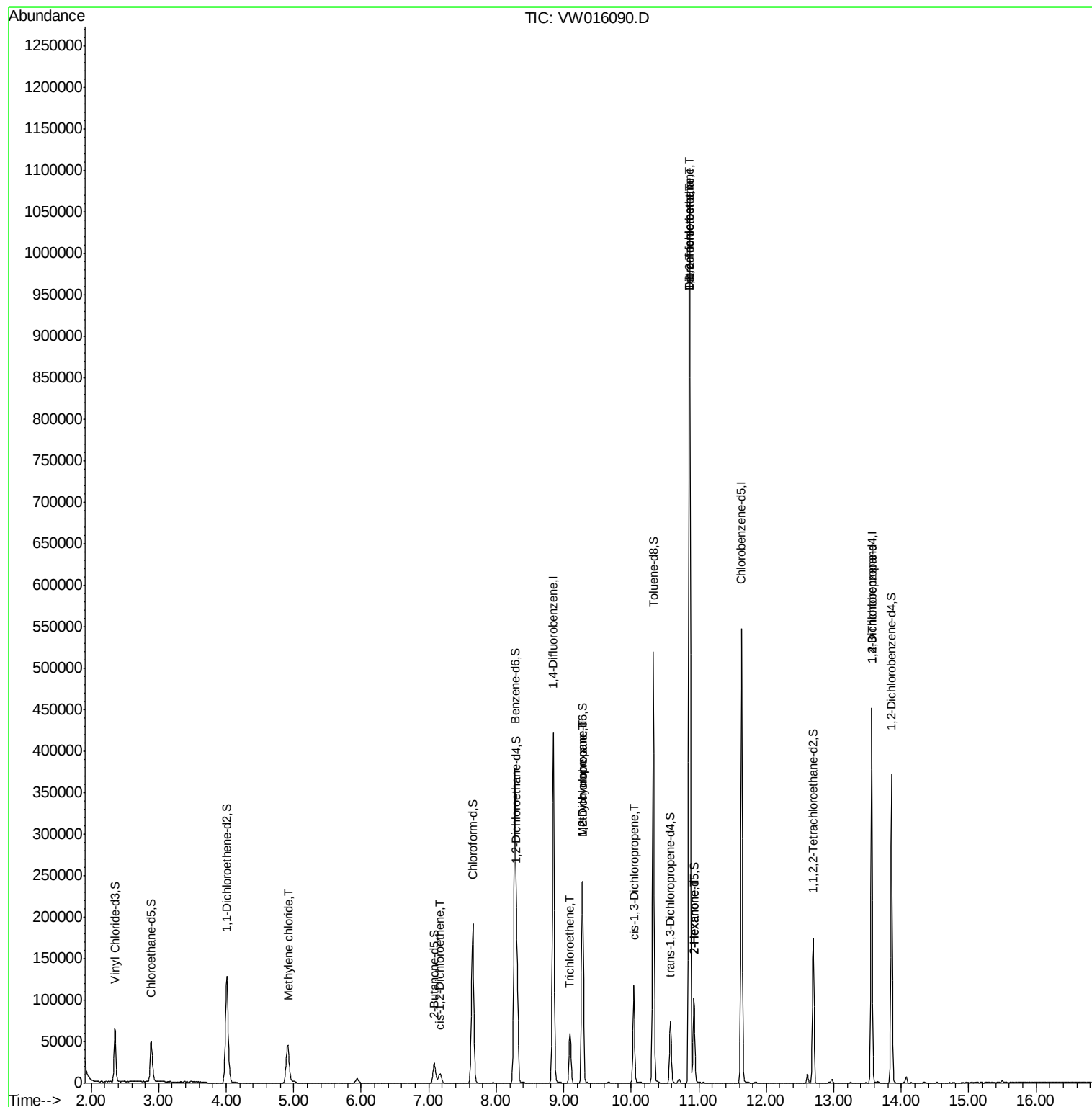
| Target Compounds            | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|-----------------------------|-------|------|----------|--------|--------|--------|
| 16) Methylene chloride      | 4.92  | 84   | 38994    | 6.388  | ug/L   | 84     |
| 22) cis-1,2-Dichloroethene  | 7.17  | 96   | 5551     | 1.049  | ug/L   | 91     |
| 35) Trichloroethene         | 9.10  | 95   | 20819    | 4.082  | ug/L   | 90     |
| 36) Methylcyclohexane       | 9.27  | 83   | 30328    | 3.466  | ug/L # | 18     |
| 40) 1,2-Dichloropropane     | 9.28  | 63   | 12764    | 2.672  | ug/L # | 87     |
| 42) cis-1,3-Dichloropropene | 10.04 | 75   | 2810     | 0.386  | ug/L # | 65     |
| 46) 1,1,2-Trichloroethane   | 10.86 | 97   | 2102     | 0.612  | ug/L # | 1      |
| 47) Tetrachloroethene       | 10.87 | 164  | 262249   | 66.246 | ug/L   | 94     |
| 49) 2-Hexanone              | 10.93 | 43   | 4399     | 2.224  | ug/L # | 67     |
| 50) Dibromochloromethane    | 10.87 | 129  | 240826   | 60.565 | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane  | 13.56 | 75   | 13062    | 4.323  | ug/L   | 95     |

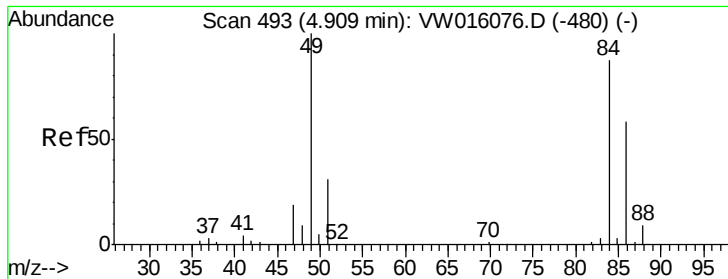
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Operator : SY/VA  
Sample : L3564-10  
Misc : 6.17G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Aug 08 05:12:37 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM072020S.M  
Quant Title : VOC Analysis  
QLast Update : Sat Aug 08 05:08:58 2020  
Response via : Initial Calibration

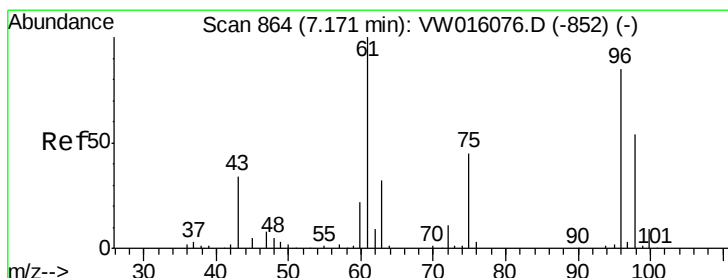
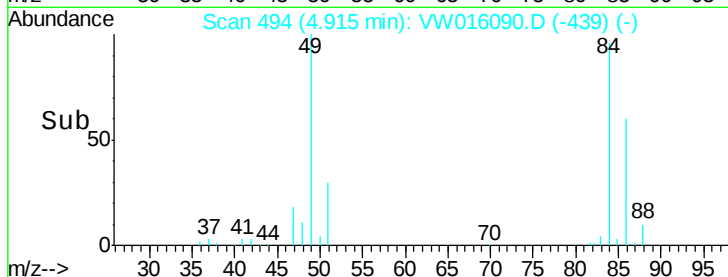
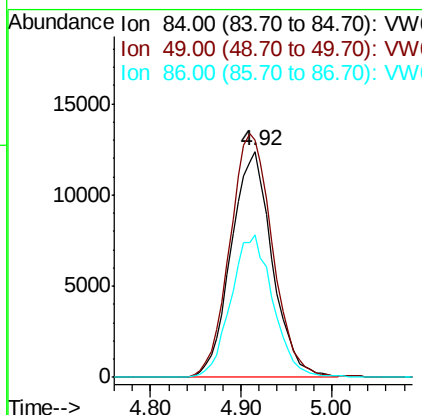
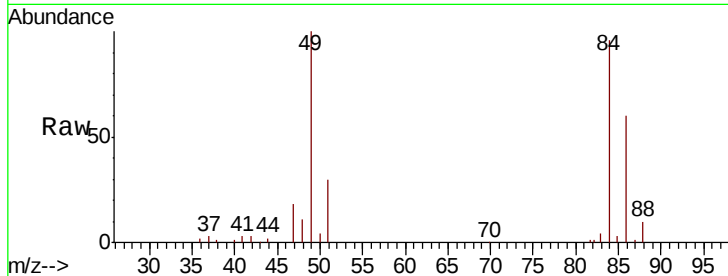




#16  
Methylene chloride  
Concen: 6.388 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VW016090.D  
Acq: 07 Aug 2020 23:19

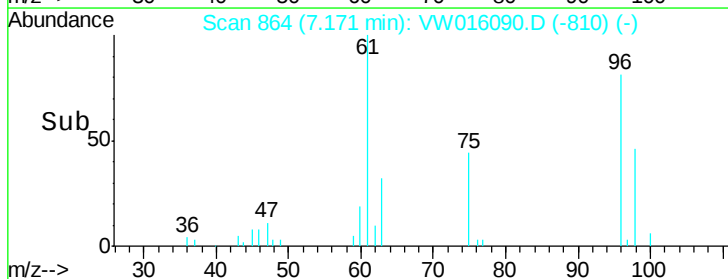
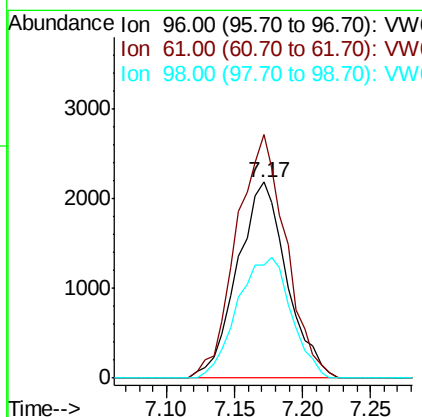
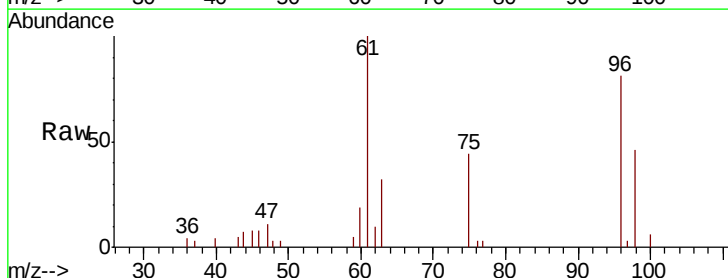
Instrument :  
MSVOA\_W  
ClientSampled :

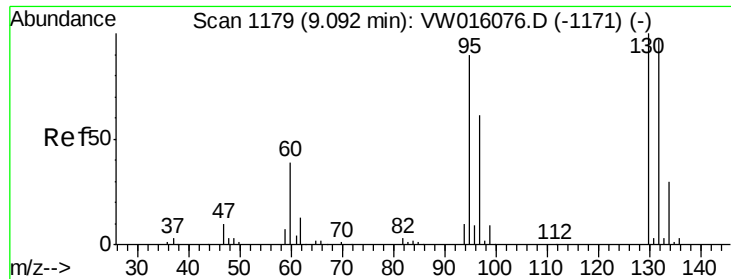
Tot Ion: 84 Resp: 38994  
Ion Ratio Lower Upper  
84 100  
49 104.7 91.1 169.1  
86 62.9 46.0 85.4



#22  
cis-1,2-Dichloroethene  
Concen: 1.049 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VW016090.D  
Acq: 07 Aug 2020 23:19

Tgt Ion: 96 Resp: 5551  
Ion Ratio Lower Upper  
96 100  
61 124.2 94.6 175.8  
98 57.6 44.3 82.3

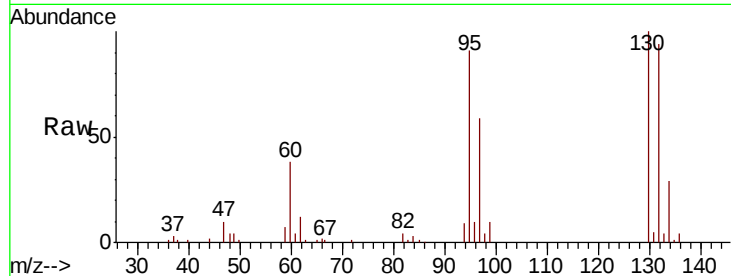




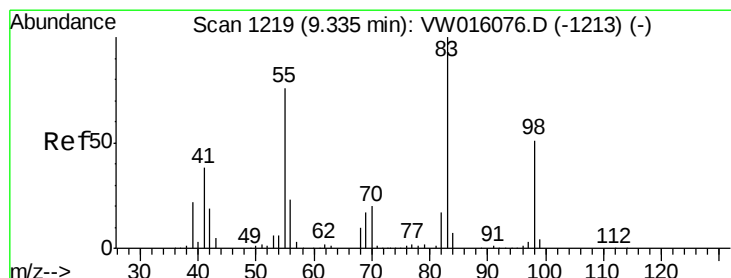
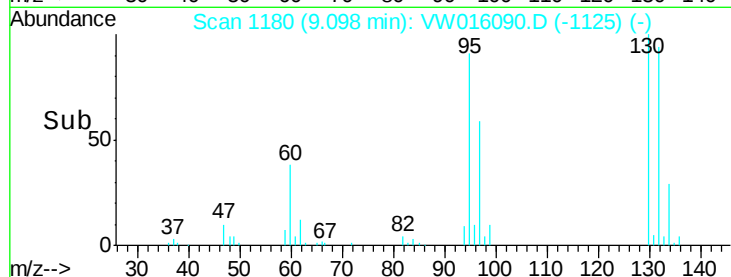
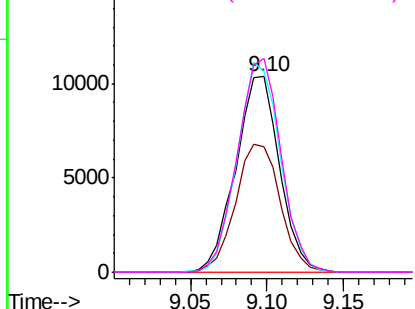
#35  
 Trichloroethene  
 Concen: 4.082 ug/L  
 RT: 9.10 min Scan# 1180  
 Delta R.T. 0.01 min  
 Lab File: VW016090.D  
 Acq: 07 Aug 2020 23:19

Instrument :  
 MSVOA\_W  
 ClientSampled :

Tot Ion: 95 Resp: 20819  
 Ion Ratio Lower Upper  
 95 100  
 97 66.6 44.4 82.4  
 132 105.2 65.1 120.9  
 130 108.4 68.6 127.4

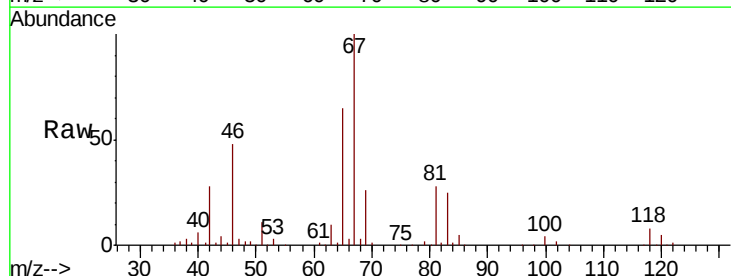


Abundance Ion 95.00 (94.70 to 95.70): VW  
 Ion 97.00 (96.70 to 97.70): VW  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

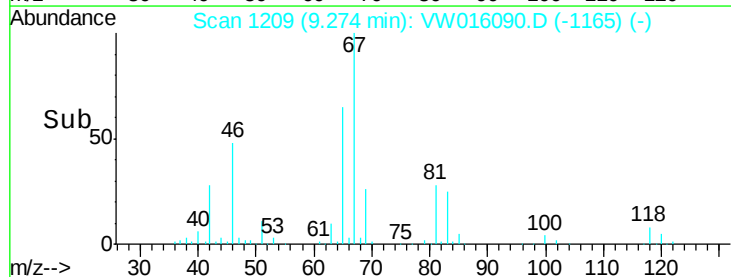
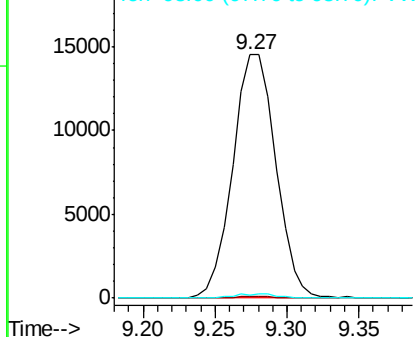


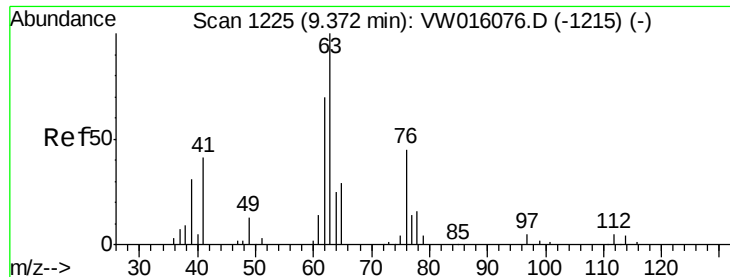
#36  
 Methylcyclohexane  
 Concen: 3.466 ug/L  
 RT: 9.27 min Scan# 1209  
 Delta R.T. -0.06 min  
 Lab File: VW016090.D  
 Acq: 07 Aug 2020 23:19

Tgt Ion: 83 Resp: 30328  
 Ion Ratio Lower Upper  
 83 100  
 55 0.4 63.5 95.3#  
 98 1.0 39.0 58.4#



Abundance Ion 83.00 (82.70 to 83.70): VW  
 Ion 55.00 (54.70 to 55.70): VW  
 Ion 98.00 (97.70 to 98.70): VW

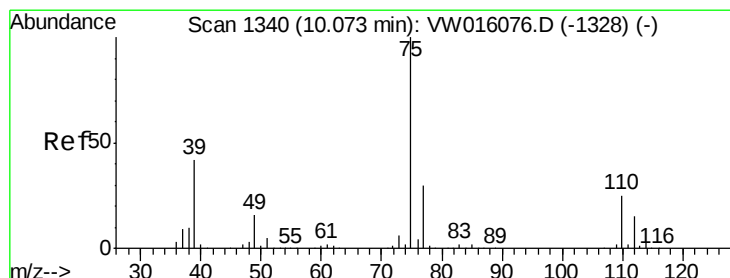
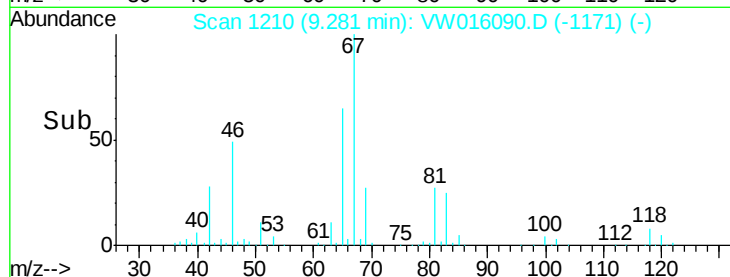
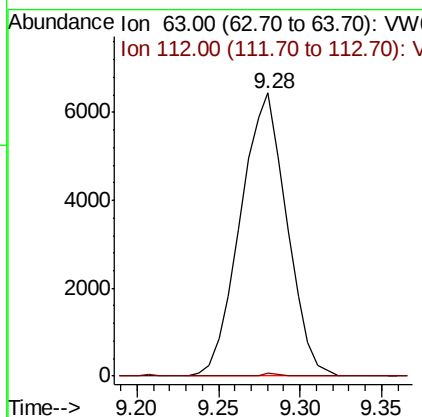
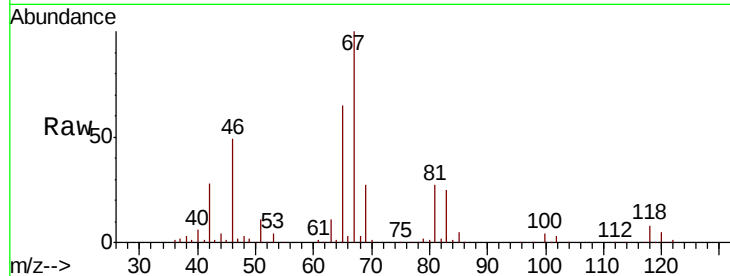




#40  
 1,2-Dichloropropane  
 Concen: 2.672 ug/L  
 RT: 9.28 min Scan# 1210  
 Delta R.T. -0.09 min  
 Lab File: VW016090.D  
 Acq: 07 Aug 2020 23:19

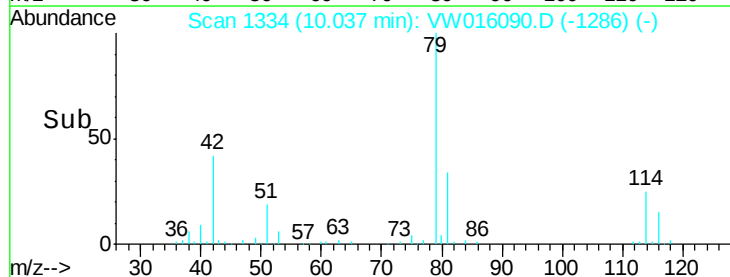
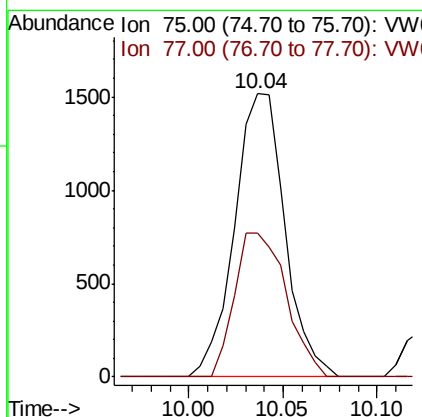
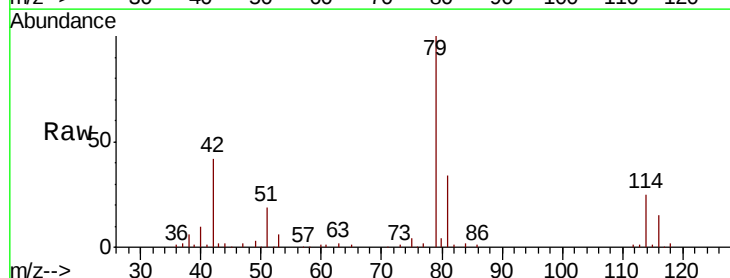
Instrument :  
 MSVOA\_W  
 ClientSampleId :

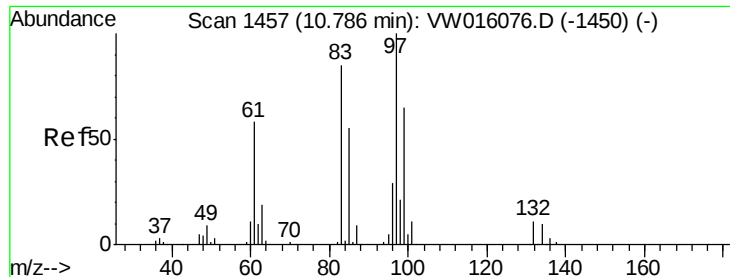
Tot Ion: 63 Resp: 12764  
 Ion Ratio Lower Upper  
 63 100  
 112 0.3 3.7 5.5#



#42  
 cis-1,3-Dichloropropene  
 Concen: 0.386 ug/L  
 RT: 10.04 min Scan# 1334  
 Delta R.T. -0.04 min  
 Lab File: VW016090.D  
 Acq: 07 Aug 2020 23:19

Tgt Ion: 75 Resp: 2810  
 Ion Ratio Lower Upper  
 75 100  
 77 50.9 22.2 41.2#

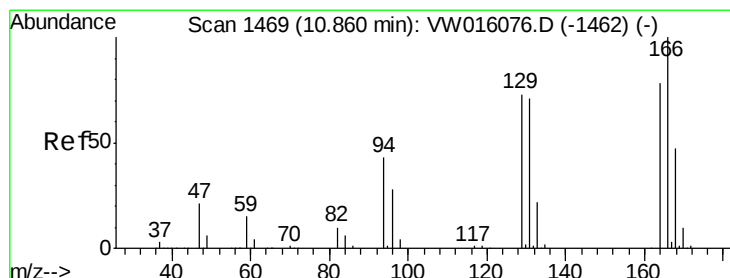
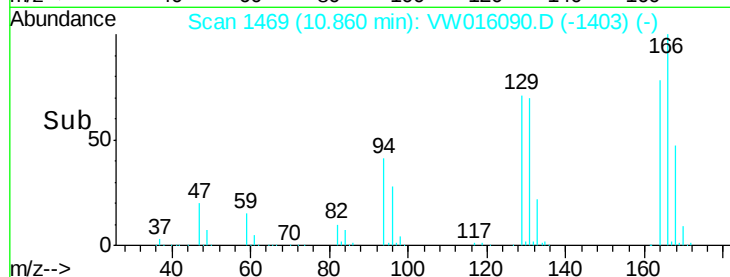
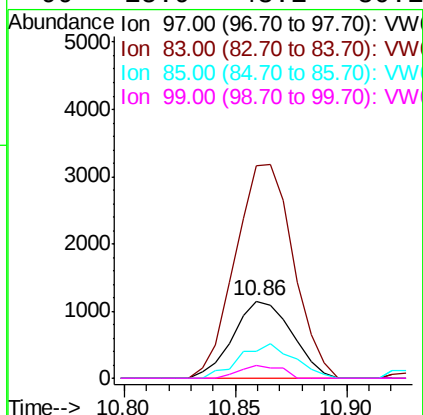
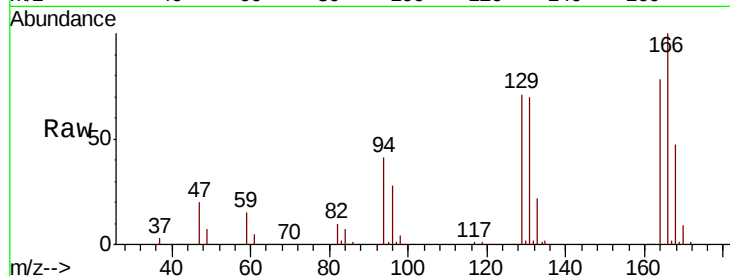




#46  
 1,1,2-Trichloroethane  
 Concen: 0.612 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. 0.07 min  
 Lab File: VW016090.D  
 Acq: 07 Aug 2020 23:19

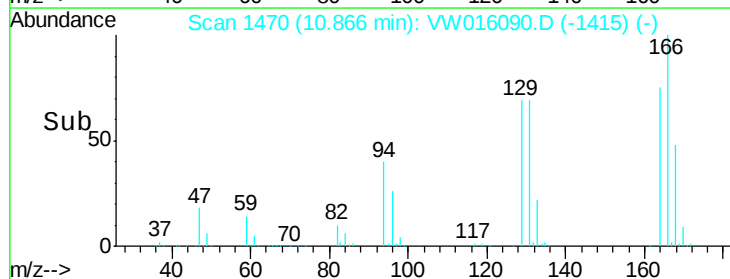
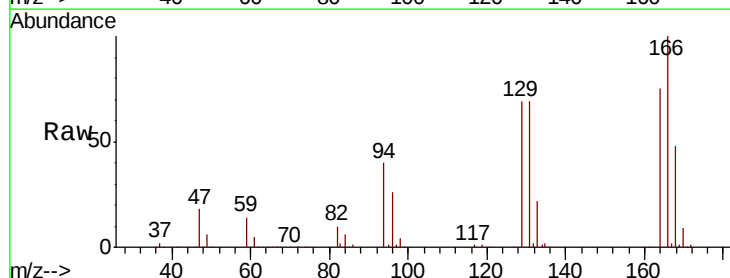
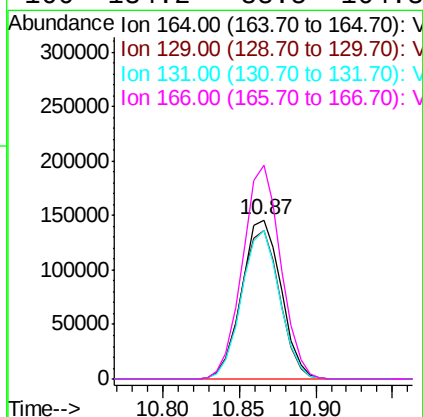
Instrument :  
 MSVOA\_W  
 ClientSampled :

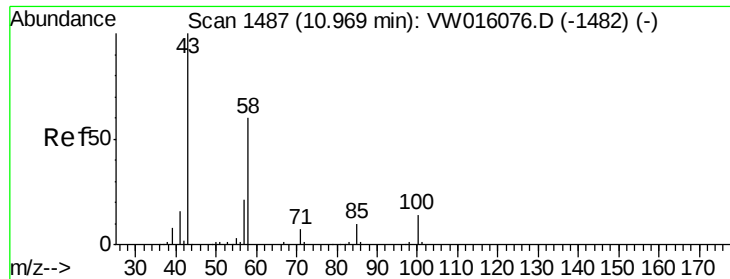
Tot Ion: 97 Resp: 2102  
 Ion Ratio Lower Upper  
 97 100  
 83 275.5 60.6 112.6#  
 85 35.2 38.9 72.2#  
 99 15.9 43.1 80.1#



#47  
 Tetrachloroethene  
 Concen: 66.246 ug/L  
 RT: 10.87 min Scan# 1470  
 Delta R.T. 0.01 min  
 Lab File: VW016090.D  
 Acq: 07 Aug 2020 23:19

Tgt Ion: 164 Resp: 262249  
 Ion Ratio Lower Upper  
 164 100  
 129 92.9 70.0 130.0  
 131 93.2 67.3 124.9  
 166 134.2 88.5 164.3

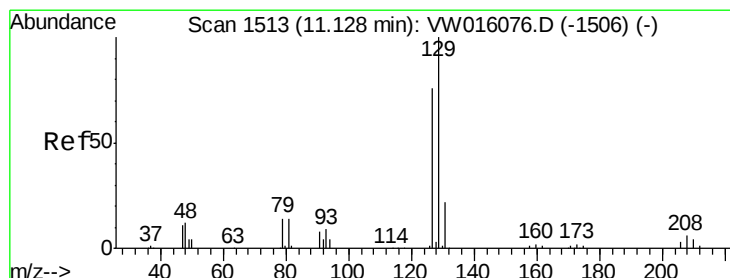
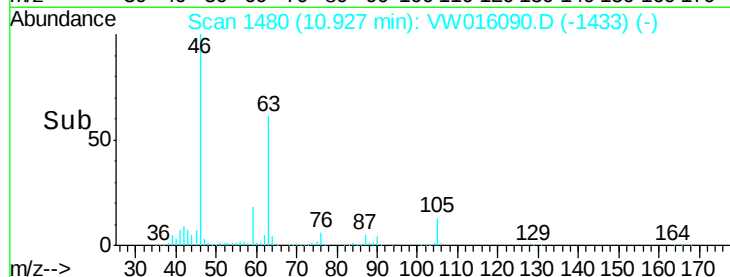
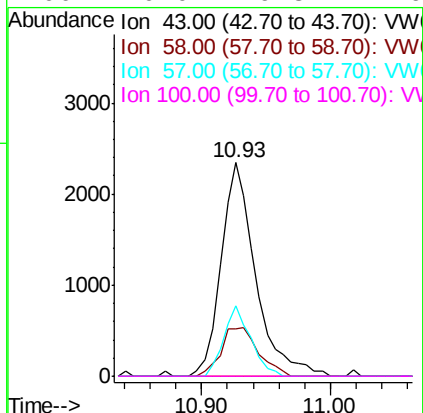
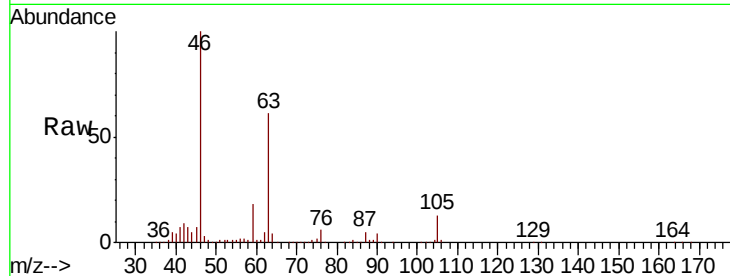




#49  
2-Hexanone  
Concen: 2.224 ug/L  
RT: 10.93 min Scan# 1480  
Delta R.T. -0.04 min  
Lab File: VW016090.D  
Acq: 07 Aug 2020 23:19

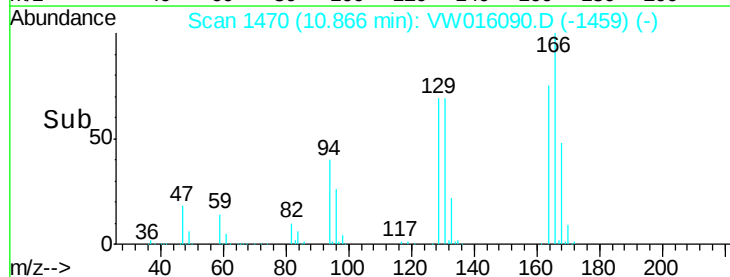
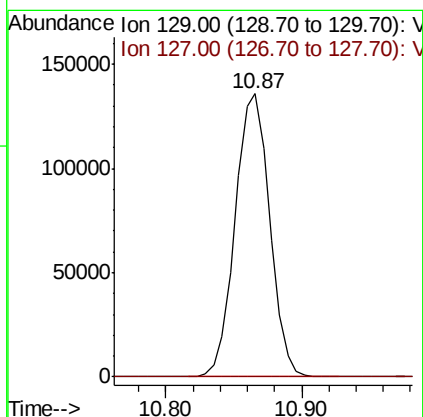
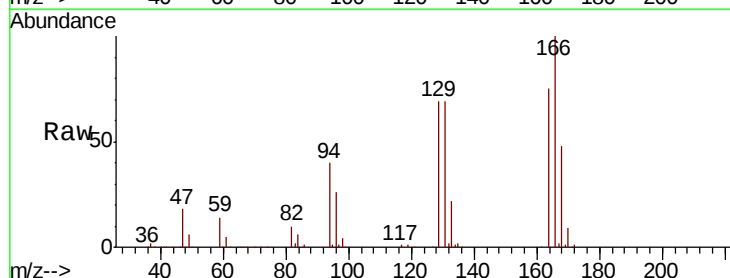
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MSVOA\_W  
ClientSampleId :

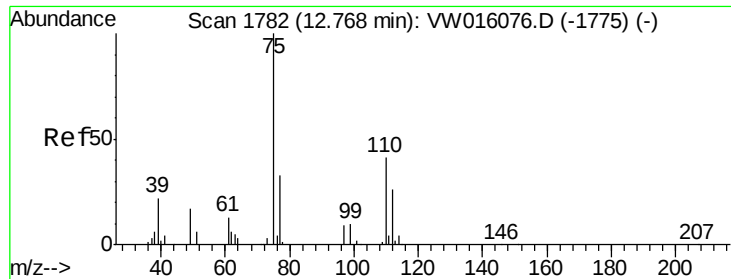
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Ion Ratio Lower Upper  
43 100  
58 24.8 42.4 63.6#  
57 26.0 15.6 23.4#  
100 0.0 9.8 14.6#



#50  
Dibromochloromethane  
Concen: 60.565 ug/L  
RT: 10.87 min Scan# 1470  
Delta R.T. -0.26 min  
Lab File: VW016090.D  
Acq: 07 Aug 2020 23:19

Tgt Ion: 129 Resp: 240826  
Ion Ratio Lower Upper  
129 100  
127 0.0 53.8 100.0#





#59

1,2,3-Trichloropropane

Concen: 4.323 ug/L

RT: 13.56 min Scan# 1912

Delta R.T. 0.79 min

Lab File: VW016090.D

Acq: 07 Aug 2020 23:19

Instrument :

MSVOA\_W

ClientSampleId :

Tot Ion: 75 Resp: 13062

Ion Ratio Lower Upper

75 100

77 35.4 26.0 39.0

