

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101620\  
 Data File : VW016912.D  
 Acq On : 15 Oct 2020 15:22  
 Operator : SY/VA  
 Sample : L4421-16  
 Misc : 5.76G/10ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG1A2

Quant Time: Oct 16 08:15:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 16 08:07:29 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 573397   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 517484   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 241720   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 127221   | 22.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 89.96%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 109947   | 23.17    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.68%  |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 197251   | 16.42    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 65.68%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 65829    | 51.38    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 102.76% |
| 24) Chloroform-d               | 7.65   | 84    | 300125   | 24.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 99.24%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 153075   | 26.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 104.76% |
| 29) Benzene-d6                 | 8.28   | 84    | 599100   | 25.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 101.96% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 169023   | 26.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 107.04% |
| 37) Toluene-d8                 | 10.33  | 98    | 555786   | 25.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.24% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 68789    | 24.69    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 98.76%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 55050    | 56.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 112.72% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 138711   | 27.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 108.76% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 212123   | 27.67    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 110.68% |

## Target Compounds

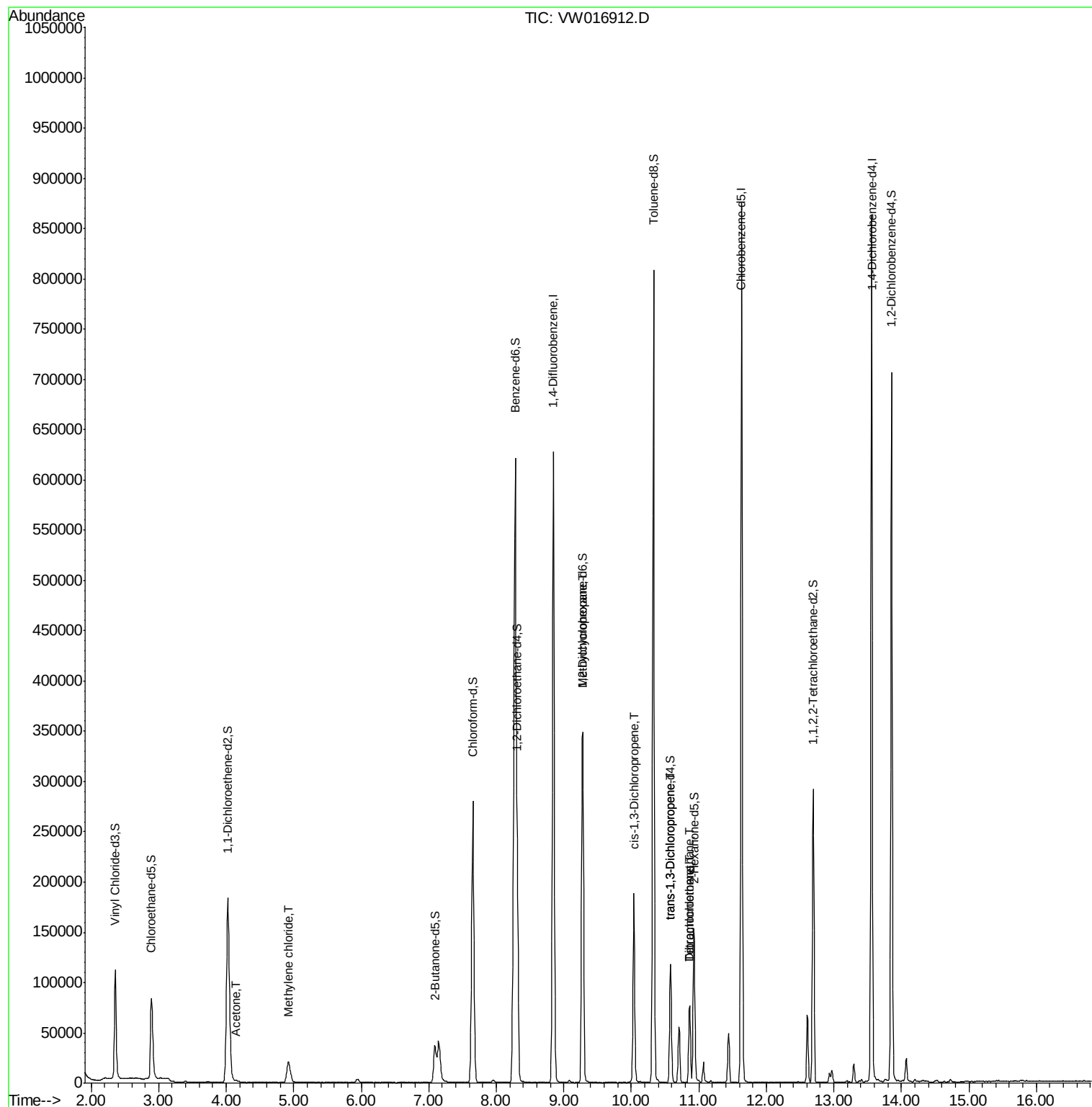
|                               |       |     |       |              | Ovalue |
|-------------------------------|-------|-----|-------|--------------|--------|
| 13) Acetone                   | 4.15  | 43  | 1774  | 1.830 ug/L   | 89     |
| 16) Methylene chloride        | 4.92  | 84  | 20458 | 2.585 ug/L   | 91     |
| 36) Methylcyclohexane         | 9.28  | 83  | 43397 | 3.283 ug/L # | 21     |
| 42) cis-1,3-Dichloropropene   | 10.04 | 75  | 4864  | 0.485 ug/L # | 74     |
| 45) trans-1,3-Dichloropropene | 10.58 | 75  | 3040  | 0.361 ug/L   | 91     |
| 47) Tetrachloroethene         | 10.87 | 164 | 19605 | 2.690 ug/L   | 98     |
| 50) Dibromochloromethane      | 10.87 | 129 | 17034 | 2.682 ug/L # | 11     |

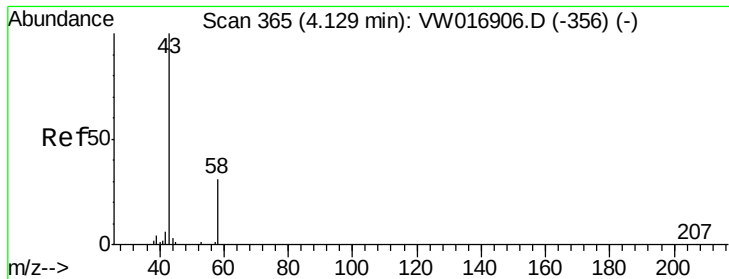
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_W  
ClientSampleId :  
BG1A2

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM100720S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Oct 16 08:07:29 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 1.830 ug/L

RT: 4.15 min Scan# 368

Delta R.T. 0.02 min

Lab File: VW016912.D

Acq: 15 Oct 2020 15:22

Instrument :

MSVOA\_W

ClientSampled :

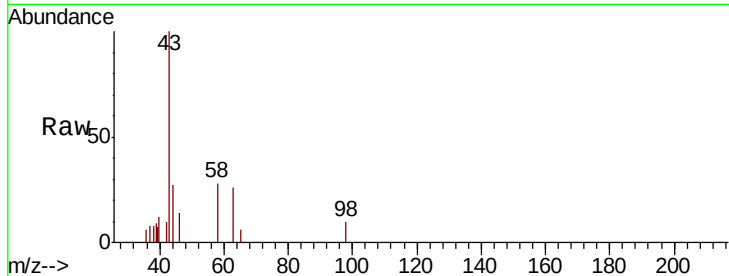
BG1A2

Tot Ion: 43 Resp: 1774

Ion Ratio Lower Upper

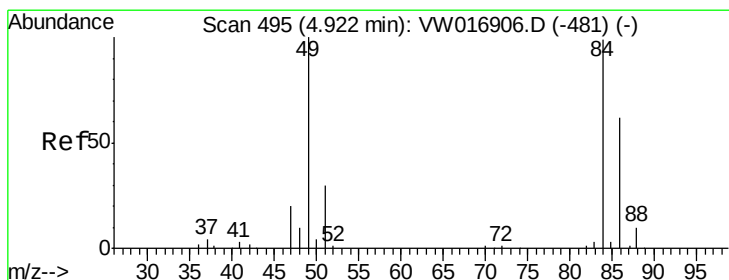
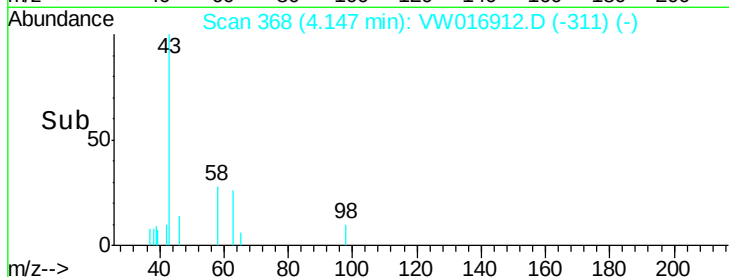
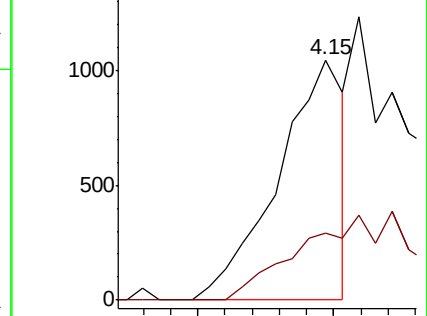
43 100

58 27.7 0.0 67.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#16

Methylene chloride

Concen: 2.585 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW016912.D

Acq: 15 Oct 2020 15:22

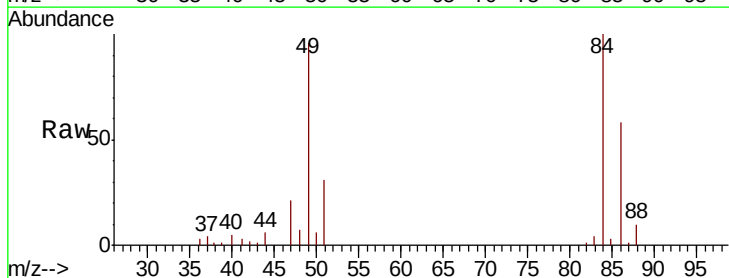
Tgt Ion: 84 Resp: 20458

Ion Ratio Lower Upper

84 100

49 96.2 73.1 135.8

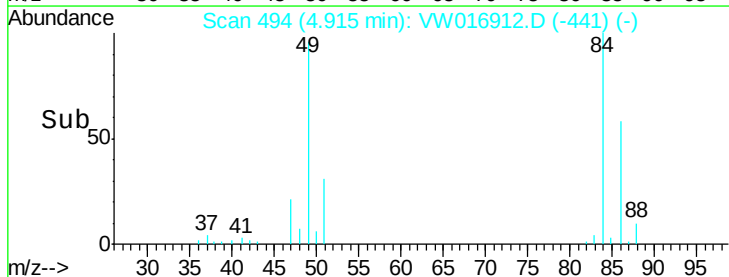
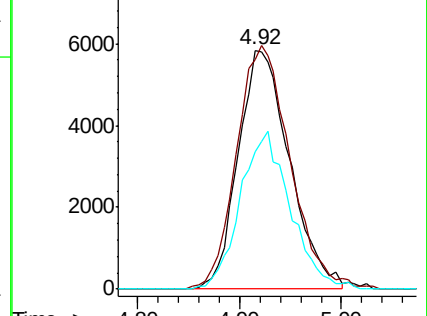
86 57.7 46.0 85.4

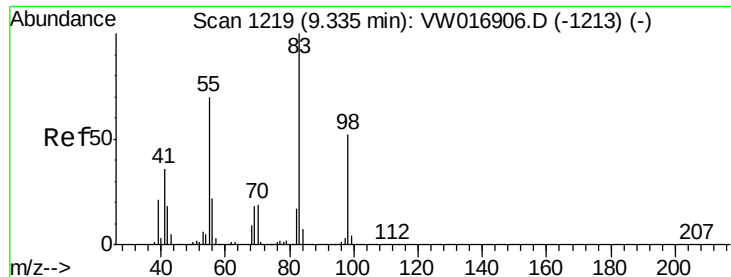


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

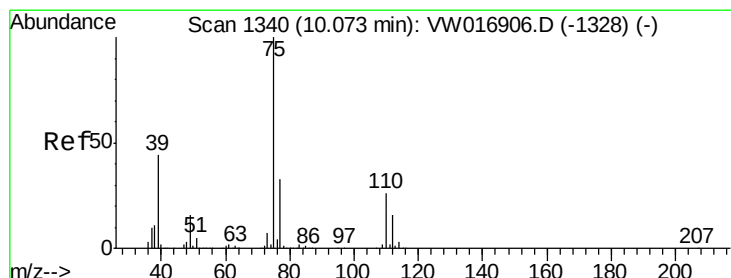
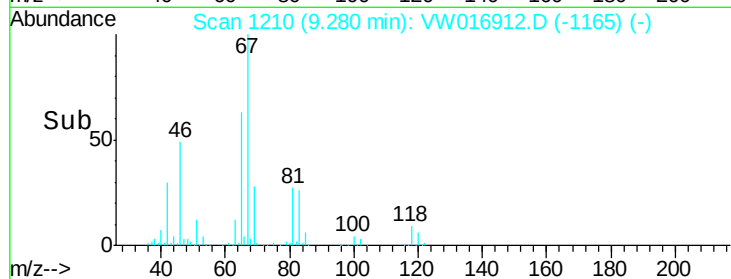
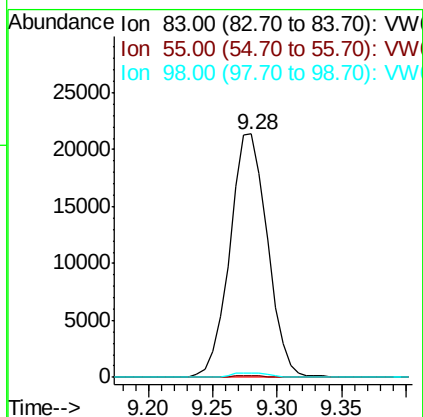
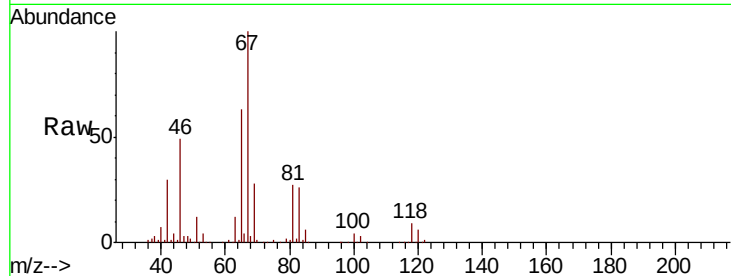




#36  
Methylcyclohexane  
Concen: 3.283 ug/L  
RT: 9.28 min Scan# 1210  
Delta R.T. -0.06 min  
Lab File: VW016912.D  
Acq: 15 Oct 2020 15:22

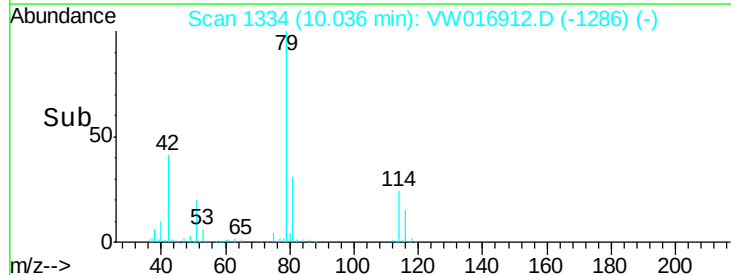
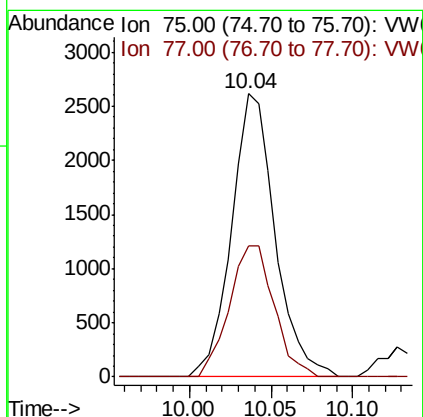
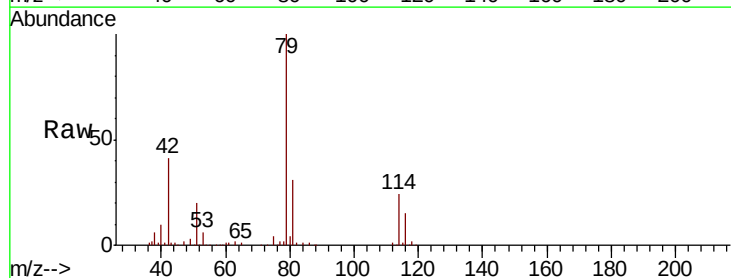
Instrument :  
MSVOA\_W  
ClientSampled :  
BG1A2

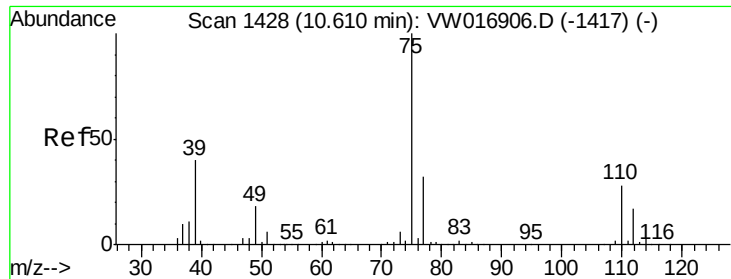
Tot Ion: 83 Resp: 43397  
Ion Ratio Lower Upper  
83 100  
55 0.5 54.2 81.4#  
98 0.7 41.4 62.2#



#42  
cis-1,3-Dichloropropene  
Concen: 0.485 ug/L  
RT: 10.04 min Scan# 1334  
Delta R.T. -0.04 min  
Lab File: VW016912.D  
Acq: 15 Oct 2020 15:22

Tgt Ion: 75 Resp: 4864  
Ion Ratio Lower Upper  
75 100  
77 46.1 22.1 41.1#





#45

trans-1,3-Dichloropropene

Concen: 0.361 ug/L

RT: 10.58 min Scan# 1424

Delta R.T. -0.02 min

Lab File: VW016912.D

Acq: 15 Oct 2020 15:22

Instrument :

MSVOA\_W

ClientSampleId :

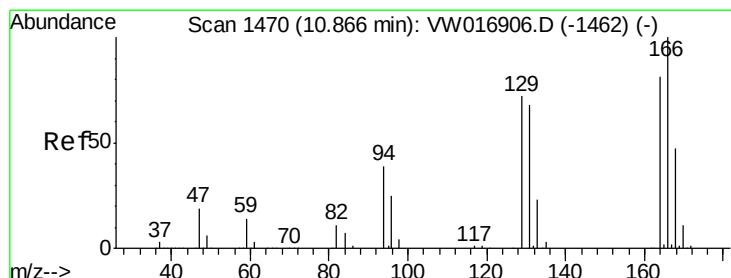
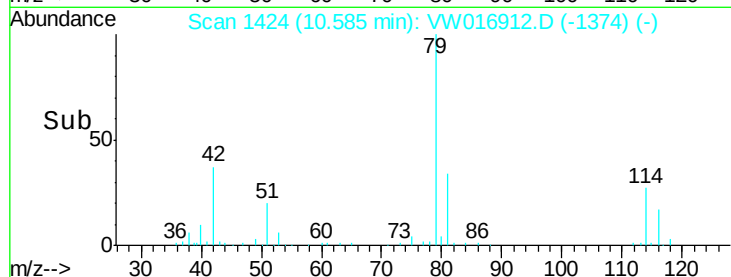
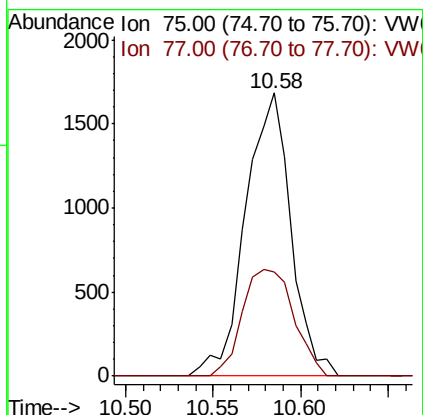
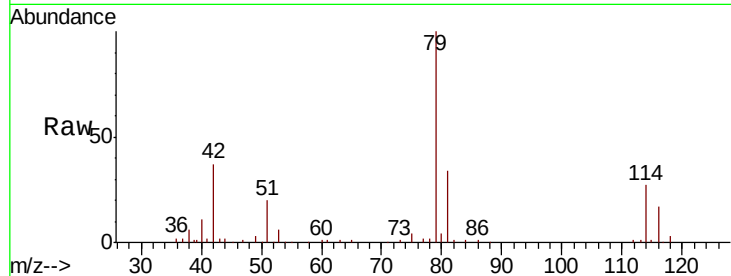
BG1A2

Tot Ion: 75 Resp: 3040

Ion Ratio Lower Upper

75 100

77 36.7 22.2 41.2



#47

Tetrachloroethene

Concen: 2.690 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW016912.D

Acq: 15 Oct 2020 15:22

Tgt Ion: 164 Resp: 19605

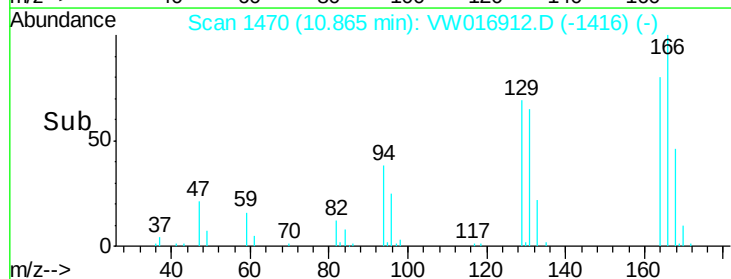
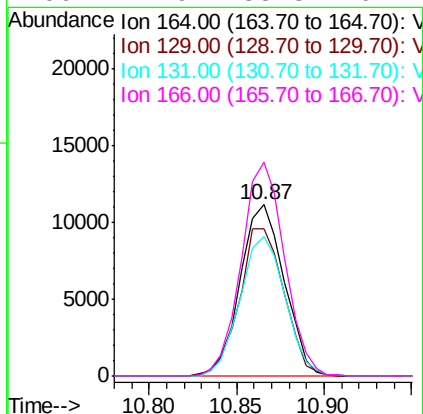
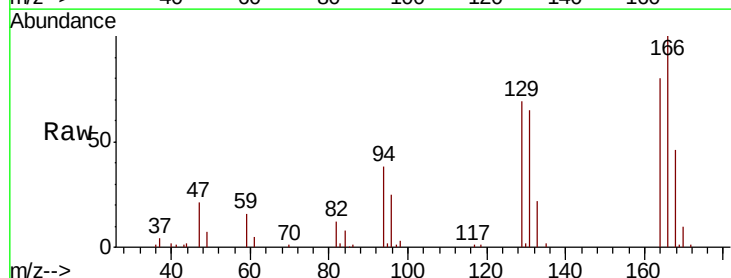
Ion Ratio Lower Upper

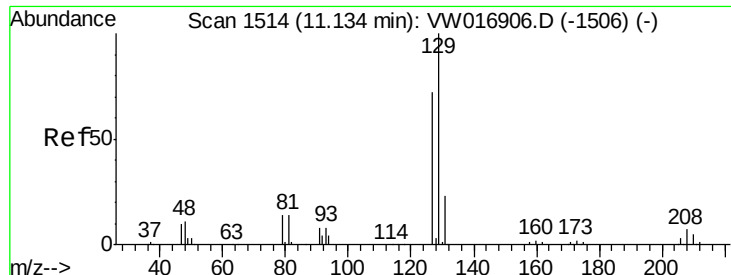
164 100

129 86.3 61.7 114.7

131 81.6 59.7 110.9

166 124.9 88.3 164.1





#50

Dibromochloromethane

Concen: 2.682 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.27 min

Lab File: VW016912.D

Acq: 15 Oct 2020 15:22

Instrument :

MSVOA\_W

ClientSampleId :

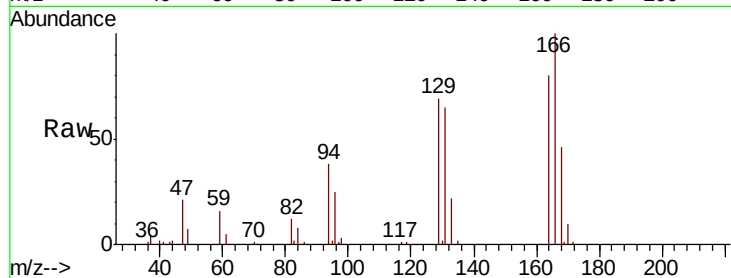
BG1A2

Tot Ion:129 Resp: 17034

Ion Ratio Lower Upper

129 100

127 0.0 54.0 100.4#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

