

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112420\  
 Data File : VW017473.D  
 Acq On : 24 Nov 2020 15:34  
 Operator : SY/VA  
 Sample : L4819-03RE  
 Misc : 5.32G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Nov 25 01:47:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM112420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 25 01:45:49 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 251089   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 229411   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 107995   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 78661    | 23.82    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 95.28%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 64724    | 23.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 92.88%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 130524   | 17.75    | ug/L | -0.01   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 71.00%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 35466    | 50.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.84% |
| 24) Chloroform-d               | 7.65   | 84    | 167975   | 23.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 94.20%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 88932    | 25.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 101.64% |
| 29) Benzene-d6                 | 8.27   | 84    | 329115   | 23.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 93.32%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 94700    | 24.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 97.04%  |
| 37) Toluene-d8                 | 10.32  | 98    | 294577   | 22.93    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 91.72%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 40553    | 23.25    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 93.00%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 23660    | 48.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 97.94%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 69541    | 24.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 99.04%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 96822    | 24.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 96.88%  |

## Target Compounds

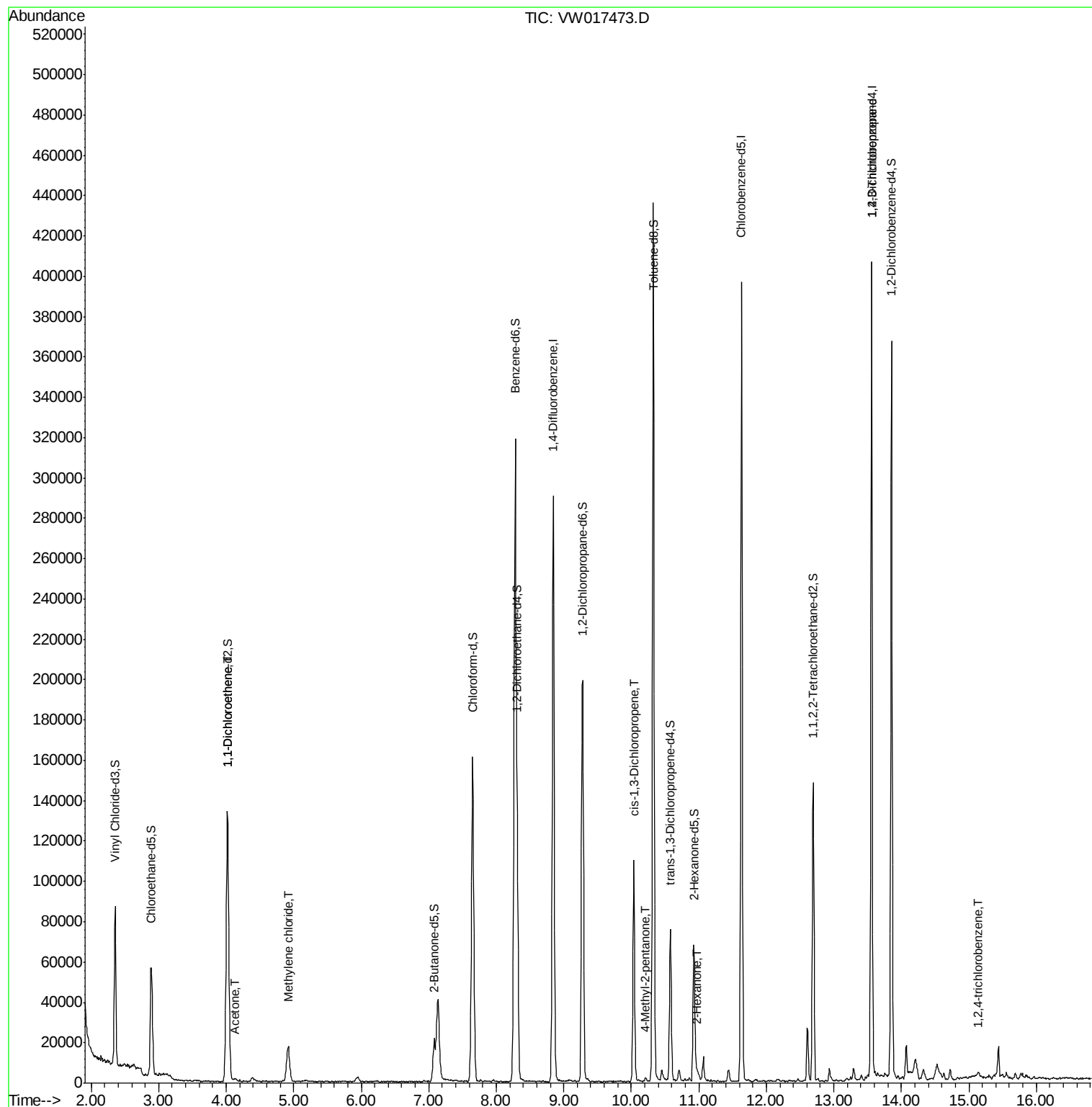
|                             |       |     |       |              | Ovalue |
|-----------------------------|-------|-----|-------|--------------|--------|
| 12) 1,1-Dichloroethene      | 4.02  | 96  | 1084  | 0.311 ug/L # | 1      |
| 13) Acetone                 | 4.12  | 43  | 1121  | 1.672 ug/L   | 62     |
| 16) Methylene chloride      | 4.92  | 84  | 14396 | 3.819 ug/L   | 92     |
| 42) cis-1,3-Dichloropropene | 10.03 | 75  | 3140  | 0.626 ug/L   | 93     |
| 43) 4-Methyl-2-pentanone    | 10.21 | 43  | 1439  | 0.965 ug/L # | 79     |
| 49) 2-Hexanone              | 10.98 | 43  | 846   | 0.803 ug/L # | 55     |
| 59) 1,2,3-Trichloropropane  | 13.56 | 75  | 12231 | 6.344 ug/L   | 99     |
| 68) 1,2,4-trichlorobenzene  | 15.14 | 180 | 895   | 0.222 ug/L   | 95     |

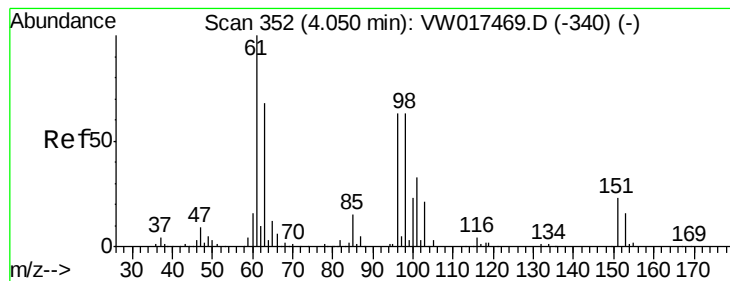
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L4819-03RE  
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Nov 25 01:47:23 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM112420S.M  
Quant Title : VOC Analysis  
QLast Update : Wed Nov 25 01:45:49 2020  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.311 ug/L

RT: 4.02 min Scan# 347

Delta R.T. -0.03 min

Lab File: VW017473.D

Acq: 24 Nov 2020 15:34

Instrument :  
MSVOA\_W  
ClientSampled :

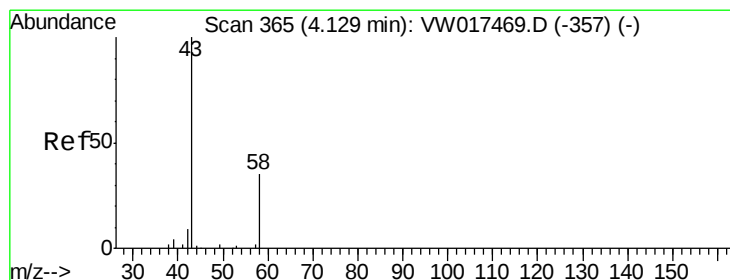
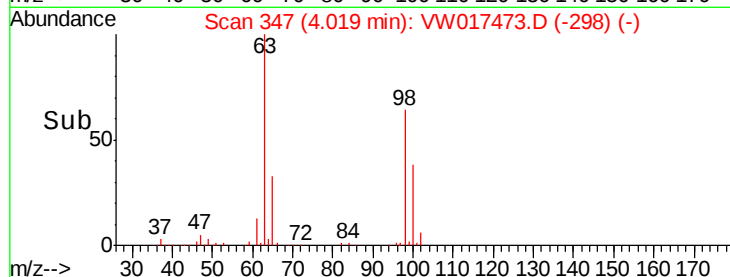
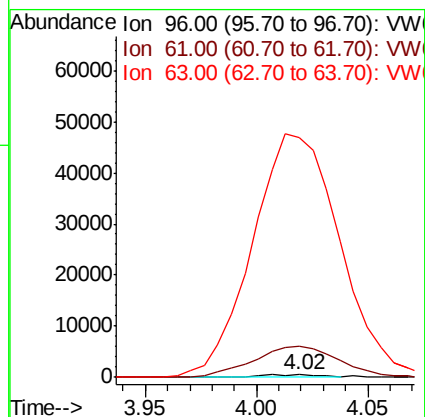
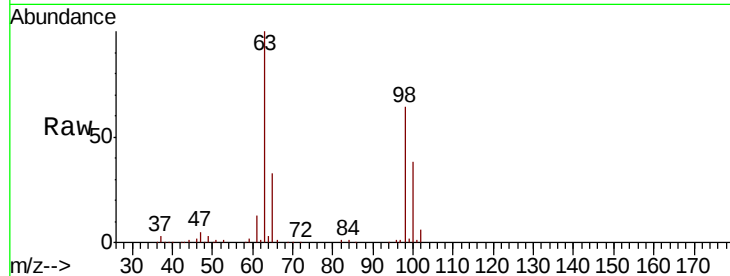
Tot Ion: 96 Resp: 1084

Ion Ratio Lower Upper

96 100

61 1180.8 112.5 208.9#

63 9280.6 83.1 154.3#



#13

Acetone

Concen: 1.672 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW017473.D

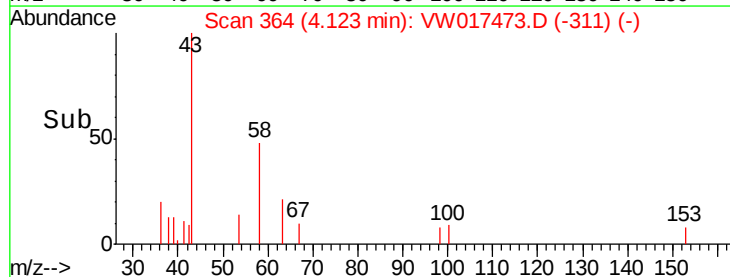
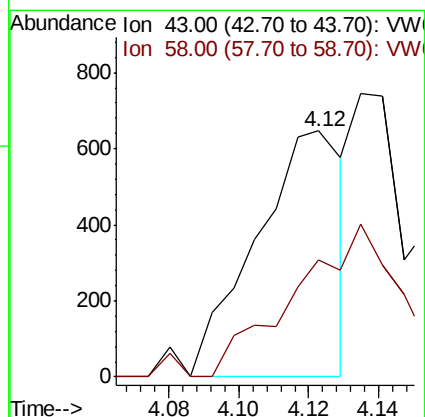
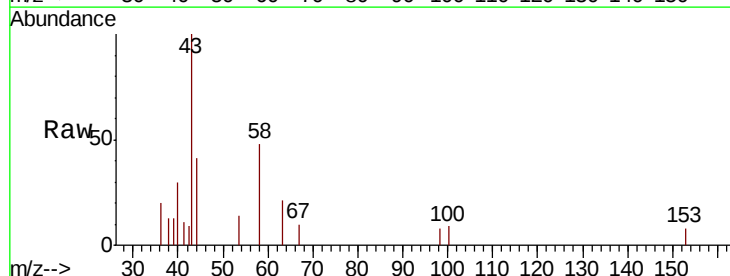
Acq: 24 Nov 2020 15:34

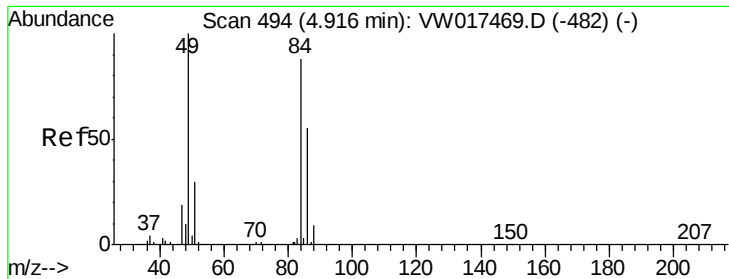
Tgt Ion: 43 Resp: 1121

Ion Ratio Lower Upper

43 100

58 12.4 0.0 68.4

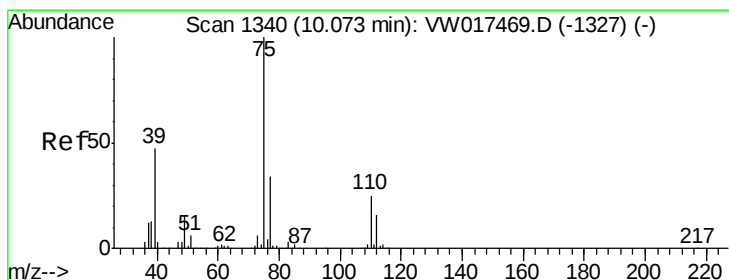
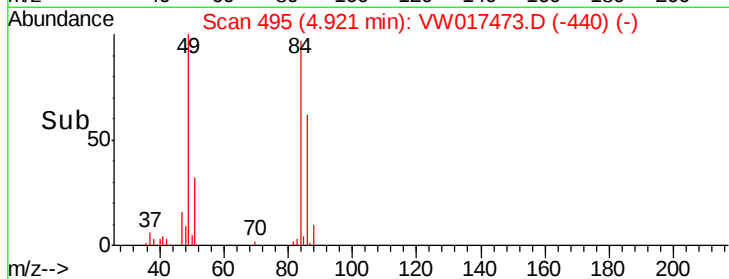
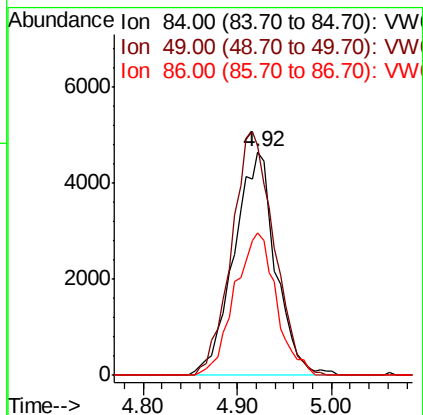
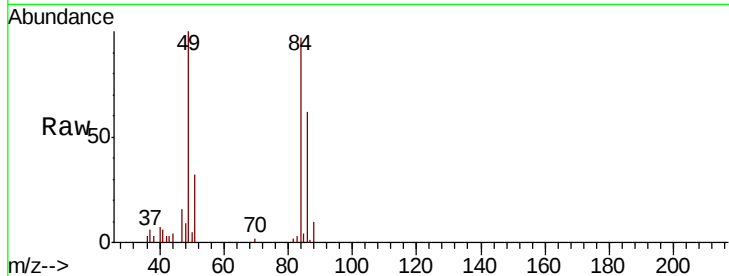




#16  
Methylene chloride  
Concen: 3.819 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW017473.D  
Acq: 24 Nov 2020 15:34

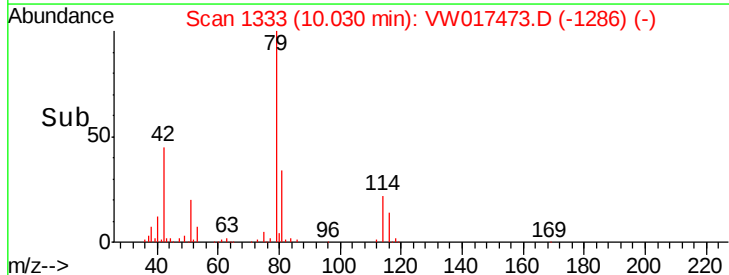
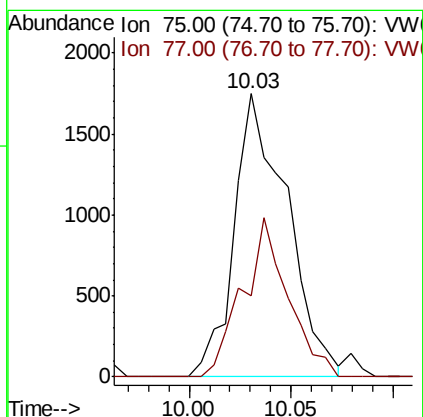
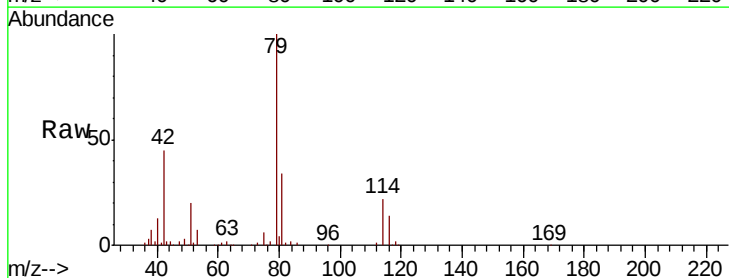
Instrument :  
MSVOA\_W  
ClientSampleId :

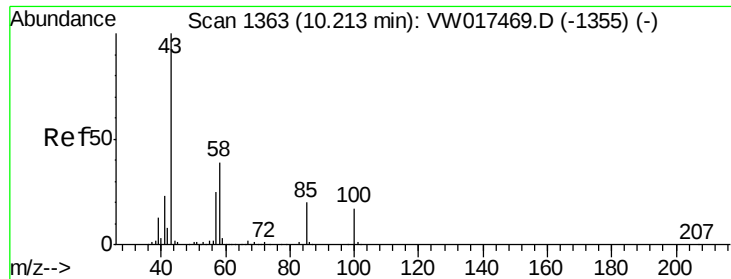
Tot Ion: 84 Resp: 14396  
Ion Ratio Lower Upper  
84 100  
49 102.8 81.2 150.8  
86 63.8 44.5 82.7



#42  
cis-1,3-Dichloropropene  
Concen: 0.626 ug/L  
RT: 10.03 min Scan# 1333  
Delta R.T. -0.04 min  
Lab File: VW017473.D  
Acq: 24 Nov 2020 15:34

Tgt Ion: 75 Resp: 3140  
Ion Ratio Lower Upper  
75 100  
77 28.7 22.7 42.3





#43

4-Methyl-2-pentanone

Concen: 0.965 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW017473.D

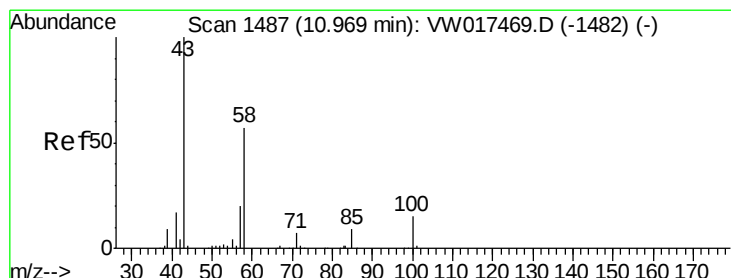
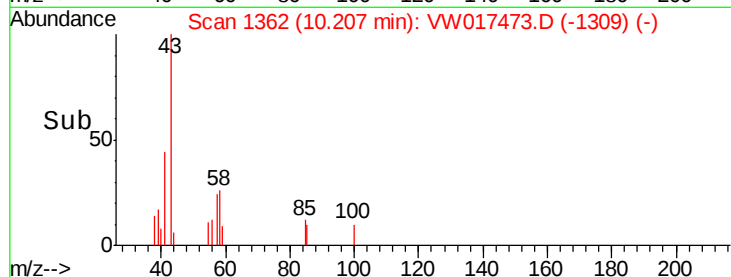
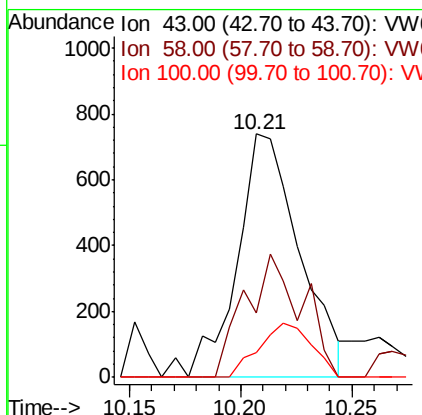
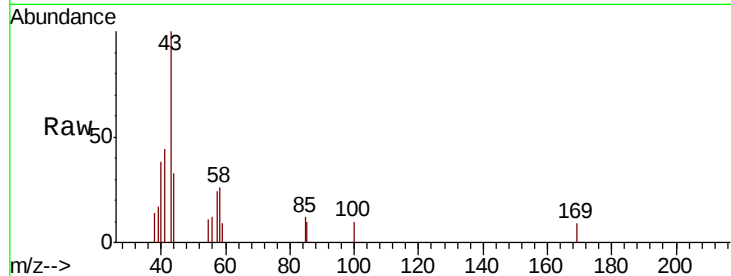
Acq: 24 Nov 2020 15:34

Instrument :

MSVOA\_W

ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 1439  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 21.3  | 31.6  | 47.4# |
| 100      | 18.8  | 14.1  | 21.1  |



#49

2-Hexanone

Concen: 0.803 ug/L

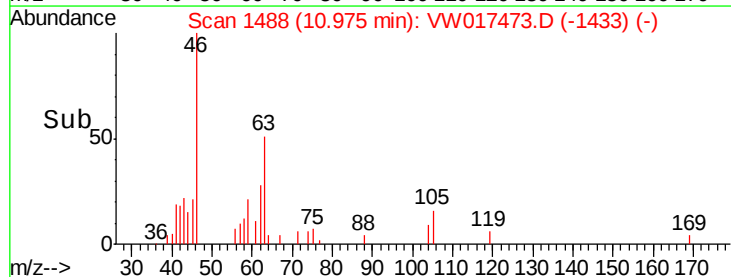
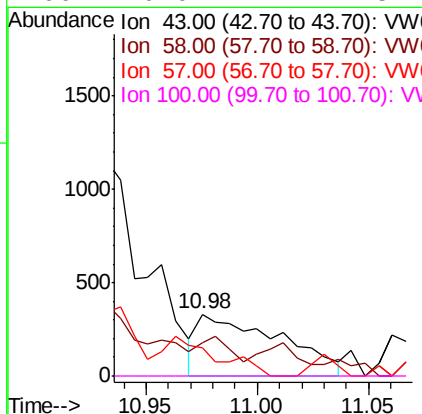
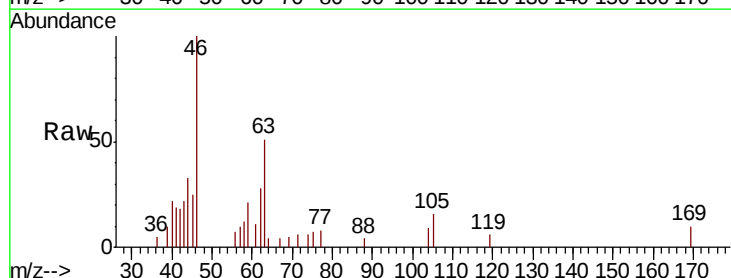
RT: 10.98 min Scan# 1488

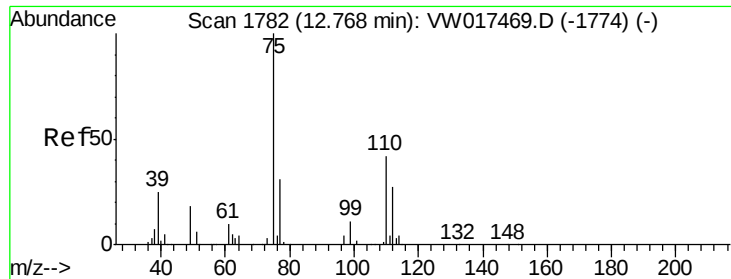
Delta R.T. 0.01 min

Lab File: VW017473.D

Acq: 24 Nov 2020 15:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 846   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 26.6  | 51.3  | 76.9# |
| 57       | 0.0   | 15.0  | 22.6# |
| 100      | 0.0   | 12.2  | 18.2# |

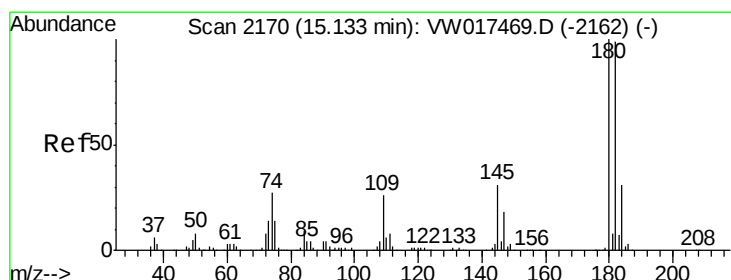
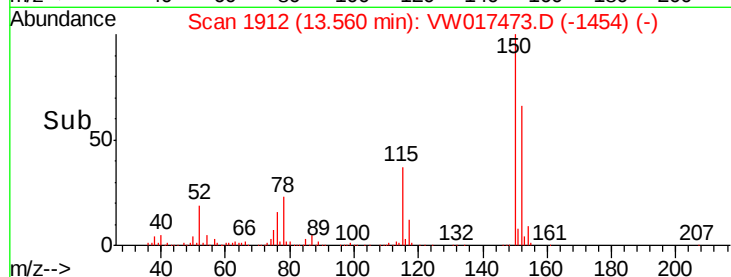
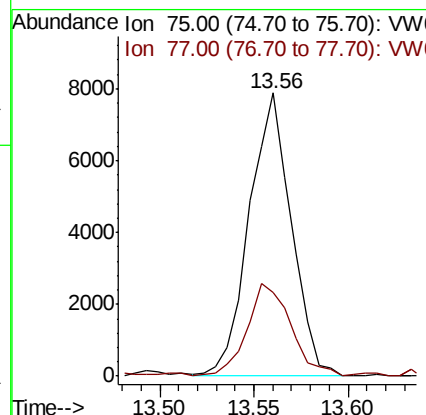
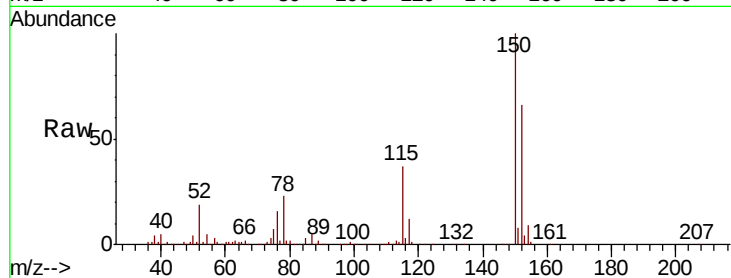




#59  
 1,2,3-Trichloropropane  
 Concen: 6.344 ug/L  
 RT: 13.56 min Scan# 1912  
 Delta R.T. 0.79 min  
 Lab File: VW017473.D  
 Acq: 24 Nov 2020 15:34

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tot Ion: 75 Resp: 12231  
 Ion Ratio Lower Upper  
 75 100  
 77 34.0 26.6 39.8



#68  
 1,2,4-trichlorobenzene  
 Concen: 0.222 ug/L  
 RT: 15.14 min Scan# 2171  
 Delta R.T. 0.01 min  
 Lab File: VW017473.D  
 Acq: 24 Nov 2020 15:34

Tgt Ion: 180 Resp: 895  
 Ion Ratio Lower Upper  
 180 100  
 182 92.1 71.3 106.9  
 145 35.5 24.0 36.0

