

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111220\  
 Data File : VW017194.D  
 Acq On : 12 Nov 2020 18:53  
 Operator : SY/VA  
 Sample : L4712-01  
 Misc : 5.84G/10ML/MSVOA W/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG4E9

Quant Time: Nov 13 06:22:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 13 04:11:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 475352   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 428578   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 211436   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 112729   | 18.83    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 75.32% |
| 7) Chloroethane-d5             | 2.89   | 69    | 95082    | 20.61    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 82.44% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 173915   | 16.24    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 64.96% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 47339    | 35.36    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 70.72% |
| 24) Chloroform-d               | 7.65   | 84    | 244483   | 22.03    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 88.12% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 125667   | 22.78    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 91.12% |
| 29) Benzene-d6                 | 8.27   | 84    | 485179   | 22.23    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 88.92% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 130724   | 21.65    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 86.60% |
| 37) Toluene-d8                 | 10.32  | 98    | 484942   | 23.56    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 94.24% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 55209    | 20.29    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 81.16% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 40461    | 38.41    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 76.82% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 102499   | 19.49    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 77.96% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 177492   | 23.83    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 95.32% |

## Target Compounds

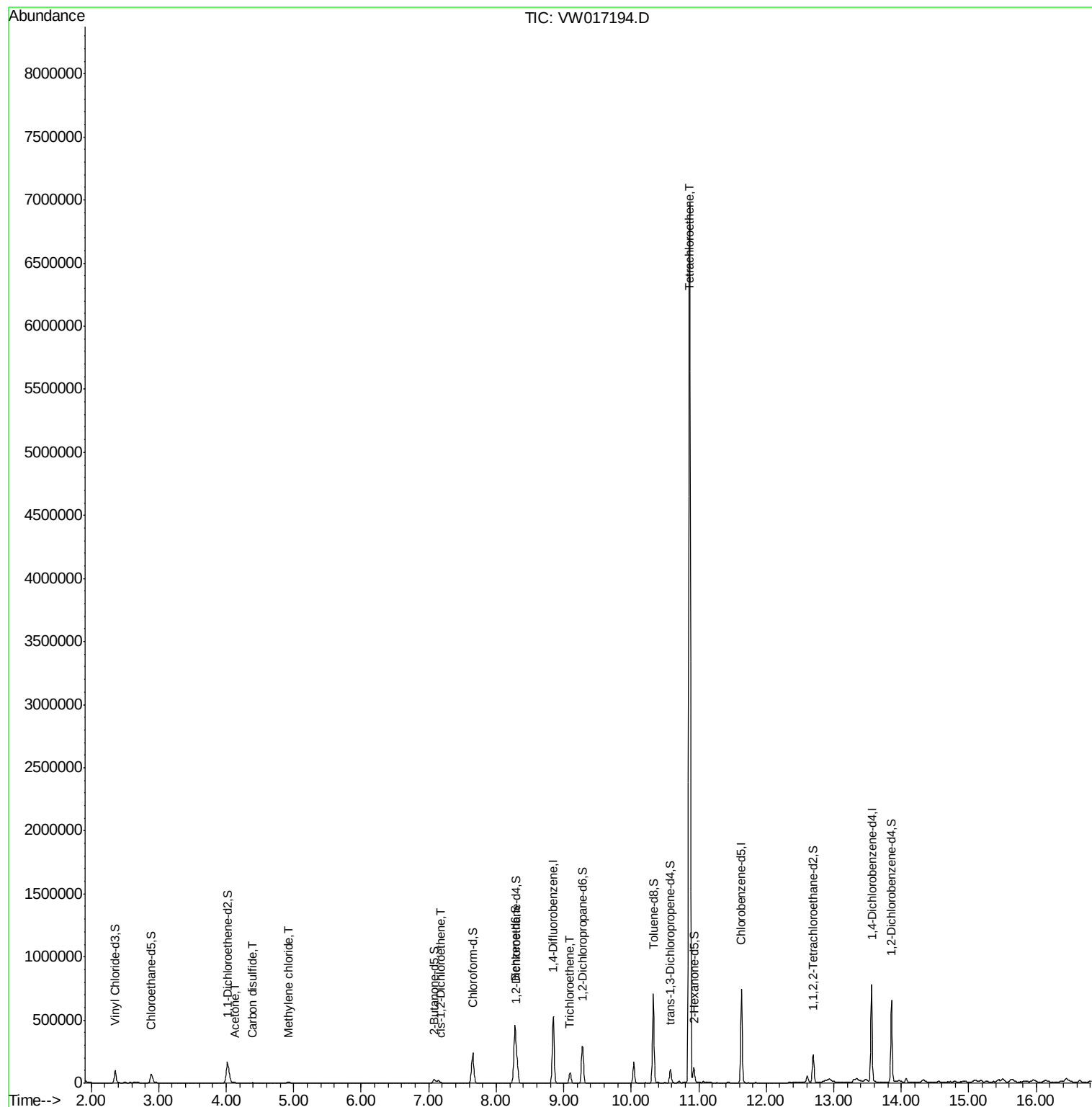
|                            |       |     |         |              | Ovalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 13) Acetone                | 4.14  | 43  | 6644    | 7.411 ug/L   | 73     |
| 14) Carbon disulfide       | 4.39  | 76  | 7007    | 0.436 ug/L   | 99     |
| 16) Methylene chloride     | 4.92  | 84  | 6978    | 1.089 ug/L   | 81     |
| 22) cis-1,2-Dichloroethene | 7.18  | 96  | 1264    | 0.196 ug/L   | 87     |
| 35) Trichloroethene        | 9.10  | 95  | 27172   | 4.310 ug/L   | 99     |
| 47) Tetrachloroethene      | 10.87 | 164 | 1583330 | 278.377 ug/L | 97     |

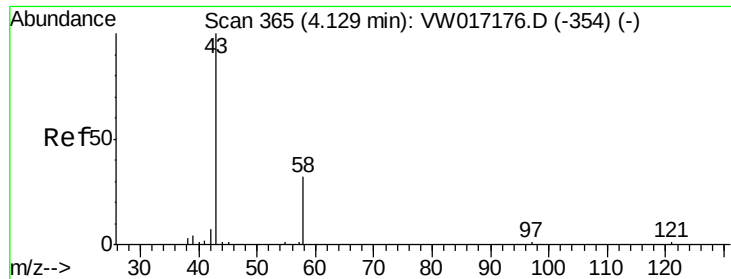
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Nov 13 04:11:30 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 7.411 ug/L

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW017194.D

Acq: 12 Nov 2020 18:53

Instrument :

MSVOA\_W

ClientSampleId :

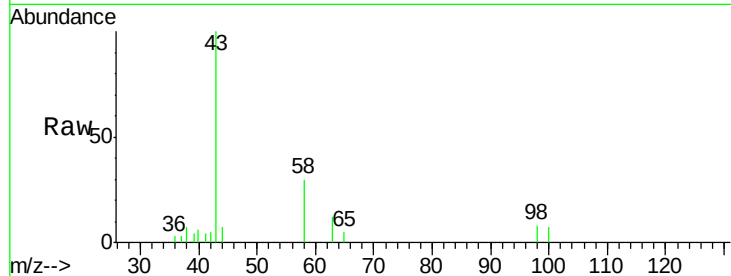
BG4E9

Tot Ion: 43 Resp: 6644

Ion Ratio Lower Upper

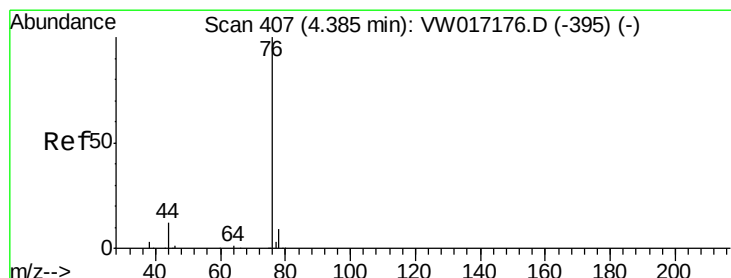
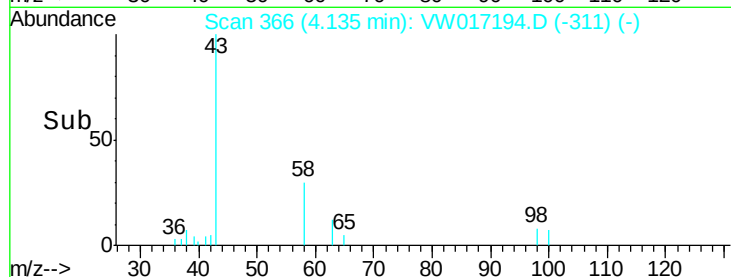
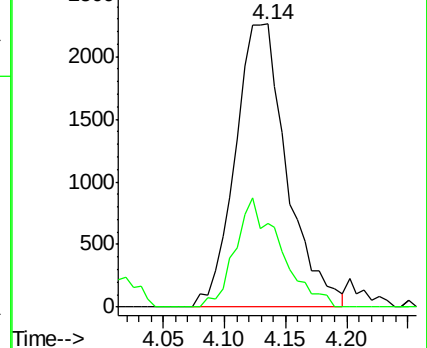
43 100

58 18.8 0.0 69.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 0.436 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW017194.D

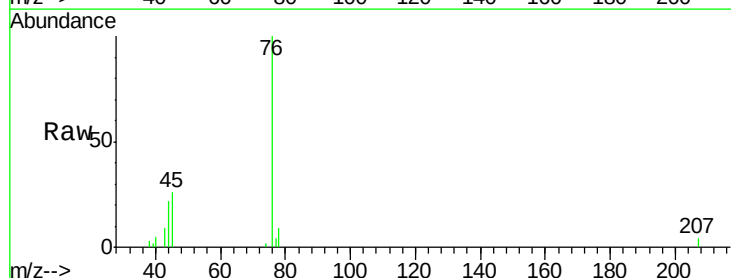
Acq: 12 Nov 2020 18:53

Tgt Ion: 76 Resp: 7007

Ion Ratio Lower Upper

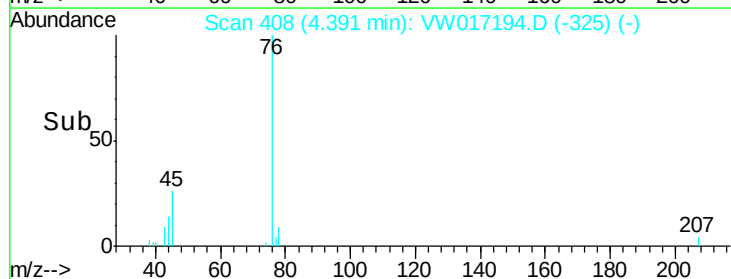
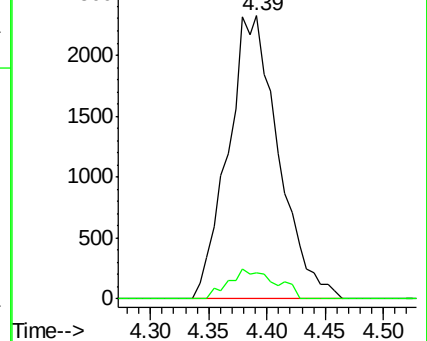
76 100

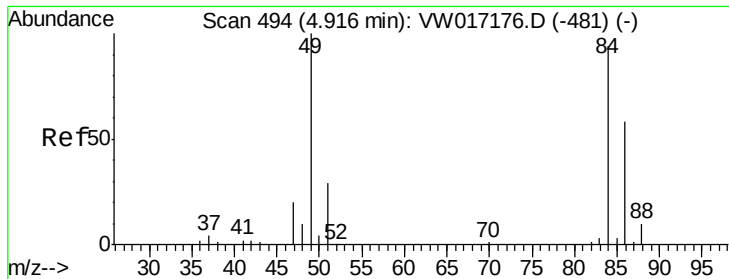
78 9.3 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

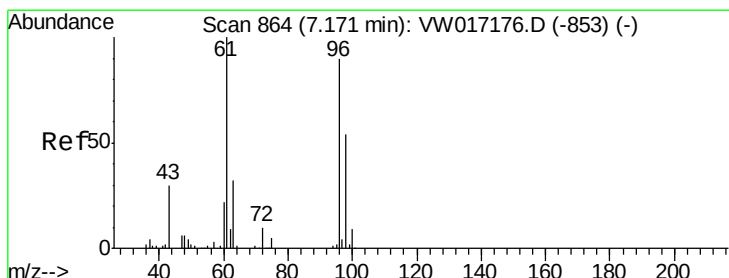
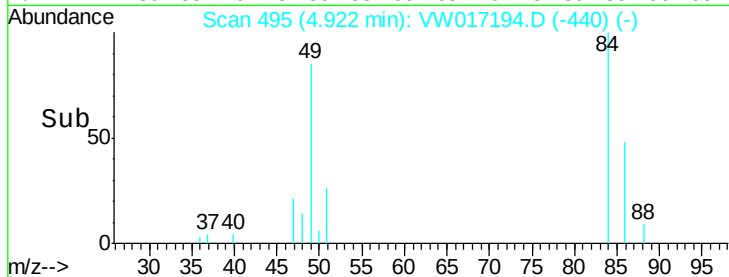
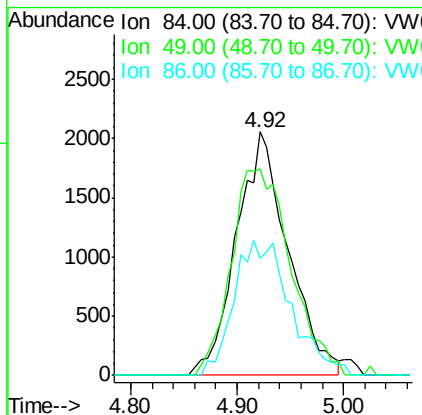
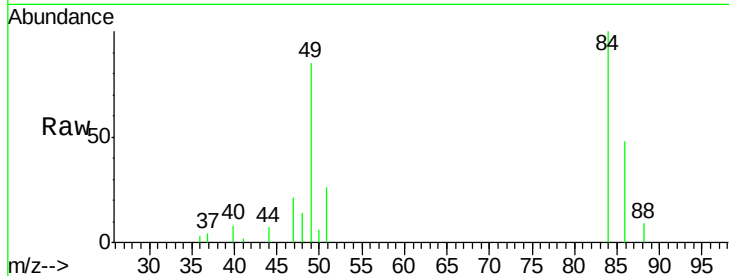




#16  
Methylene chloride  
Concen: 1.089 ug/L  
RT: 4.92 min Scan# 495  
Delta R.T. 0.01 min  
Lab File: VW017194.D  
Acq: 12 Nov 2020 18:53

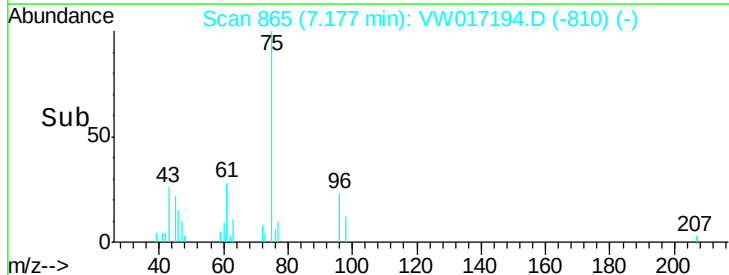
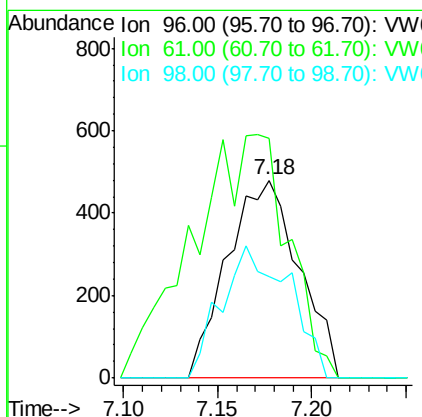
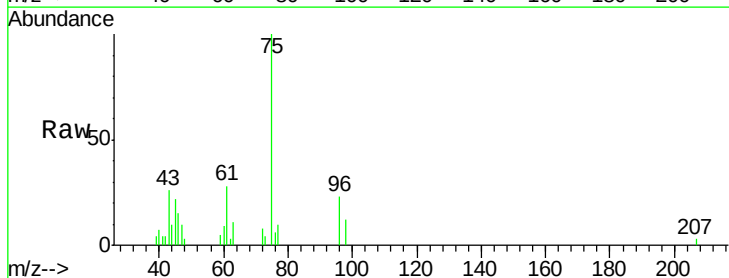
Instrument :  
MSVOA\_W  
ClientSampled :  
BG4E9

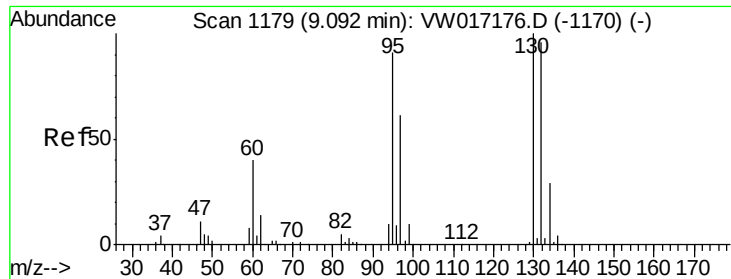
Tot Ion: 84 Resp: 6978  
Ion Ratio Lower Upper  
84 100  
49 84.9 72.3 134.3  
86 48.1 45.1 83.7



#22  
cis-1,2-Dichloroethene  
Concen: 0.196 ug/L  
RT: 7.18 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VW017194.D  
Acq: 12 Nov 2020 18:53

Tgt Ion: 96 Resp: 1264  
Ion Ratio Lower Upper  
96 100  
61 121.2 77.4 143.8  
98 51.0 45.1 83.7

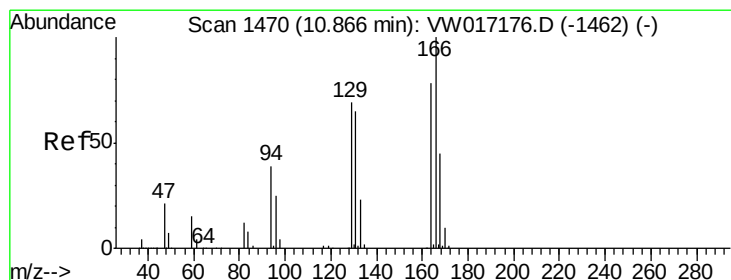
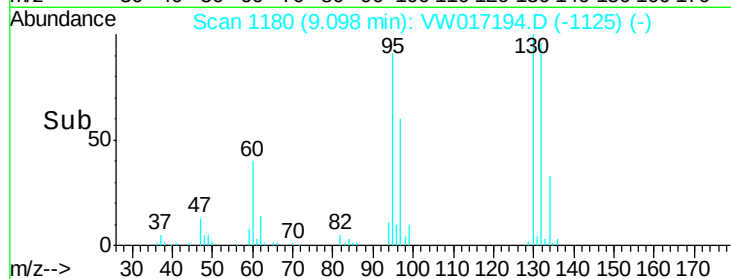
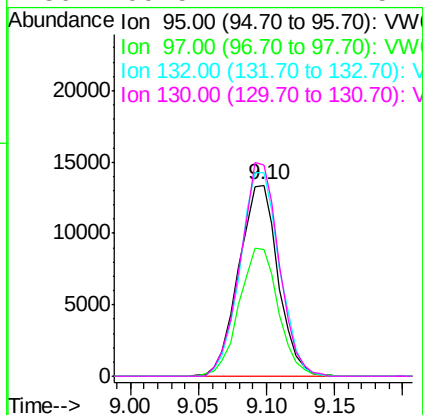
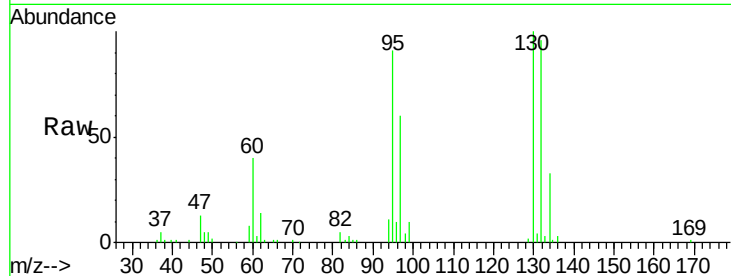




#35  
 Trichloroethene  
 Concen: 4.310 ug/L  
 RT: 9.10 min Scan# 1180  
 Delta R.T. 0.01 min  
 Lab File: VW017194.D  
 Acq: 12 Nov 2020 18:53

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BG4E9

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 27172 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 66.3  | 45.0  | 83.6  |
| 132      | 106.7 | 73.7  | 136.9 |
| 130      | 109.5 | 77.1  | 143.1 |



#47  
 Tetrachloroethene  
 Concen: 278.377 ug/L  
 RT: 10.87 min Scan# 1470  
 Delta R.T. -0.00 min  
 Lab File: VW017194.D  
 Acq: 12 Nov 2020 18:53

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 164   | Resp: | 1583330 |
| Ion      | Ratio | Lower | Upper   |
| 164      | 100   |       |         |
| 129      | 93.1  | 62.9  | 116.7   |
| 131      | 87.4  | 63.3  | 117.5   |
| 166      | 135.7 | 92.0  | 170.8   |

