

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032019\  
 Data File : VW009312.D  
 Acq On : 21 Mar 2019 03:39  
 Operator : SY/VA  
 Sample : K1988-13  
 Misc : 6.15G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF0C4

Quant Time: Apr 05 07:31:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM031419S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 21 12:20:05 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 343269   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 325242   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 154154   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 89782    | 21.89    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 87.56% |
| 7) Chloroethane-d5             | 2.89   | 69    | 81425    | 16.96    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 67.84% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 133188   | 15.02    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 60.08% |
| 20) 2-Butanone-d5              | 7.07   | 46    | 68436    | 40.34    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 80.68% |
| 24) Chloroform-d               | 7.65   | 84    | 184535   | 19.70    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 78.80% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 113207   | 20.06    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 80.24% |
| 29) Benzene-d6                 | 8.27   | 84    | 354975   | 19.79    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 79.16% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 107203   | 19.90    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 79.60% |
| 37) Toluene-d8                 | 10.32  | 98    | 304317   | 18.35    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 73.40% |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 46547    | 17.20    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 68.80% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 49359    | 37.83    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 75.66% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 109905   | 20.71    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 82.84% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 122798   | 20.77    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 83.08% |

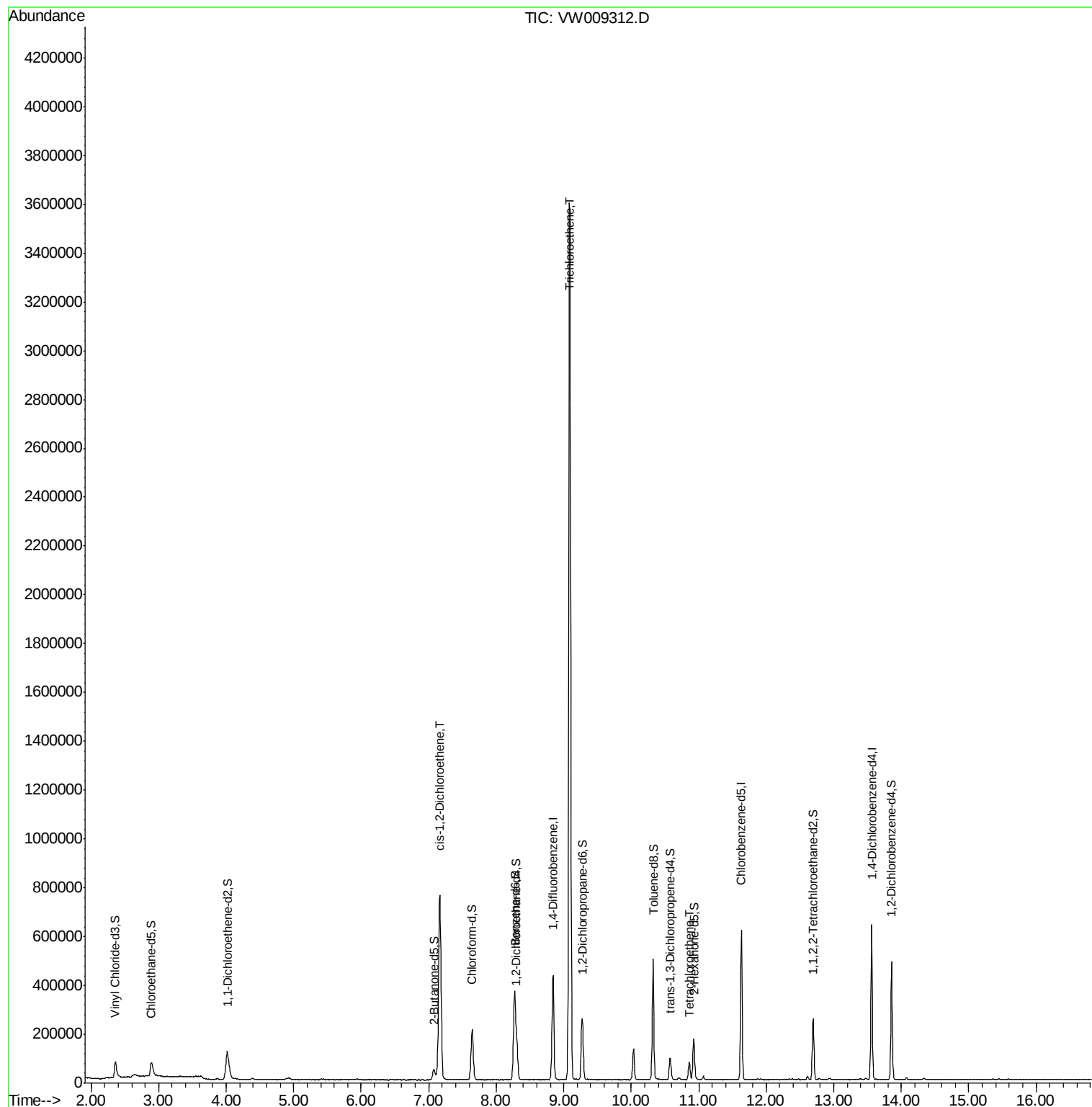
| Target Compounds           |       |     |         |              | Ovalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 22) cis-1,2-Dichloroethene | 7.17  | 96  | 408071  | 84.761 ug/L  | 98     |
| 35) Trichloroethene        | 9.09  | 95  | 1144083 | 241.188 ug/L | 99     |
| 47) Tetrachloroethene      | 10.86 | 164 | 14788   | 3.690 ug/L   | 95     |

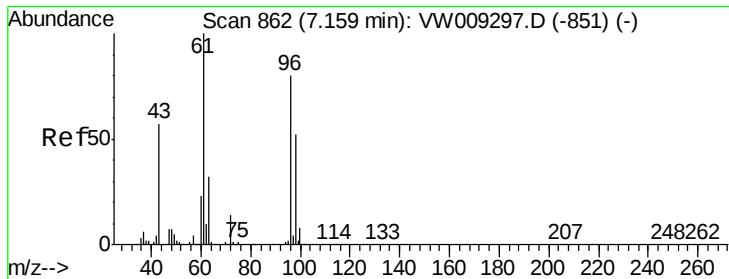
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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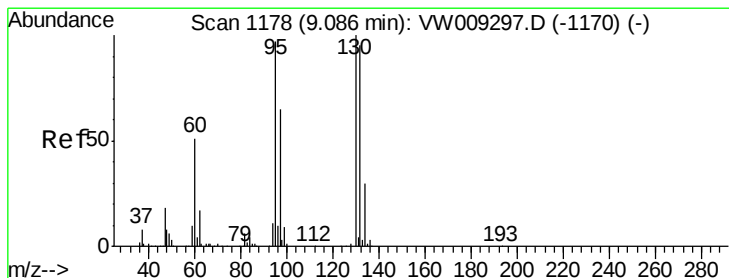
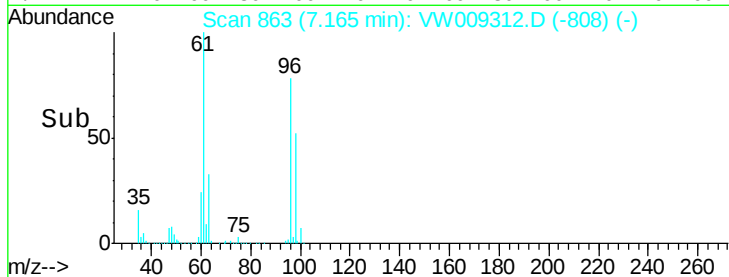
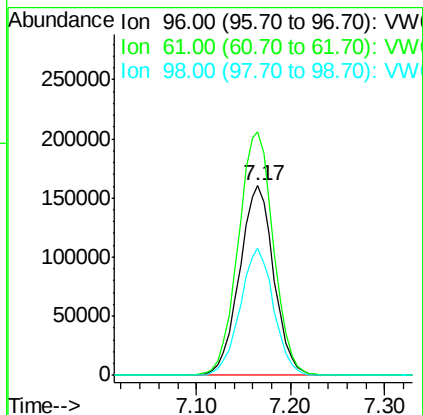
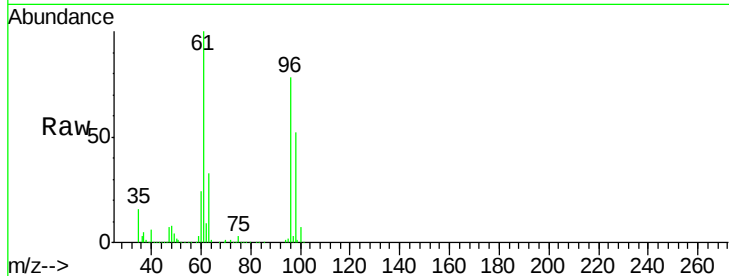


#22

cis-1,2-Dichloroethene  
 Concen: 84.761 ug/L  
 RT: 7.17 min Scan# 863  
 Delta R.T. 0.01 min  
 Lab File: VW009312.D  
 Acq: 21 Mar 2019 03:39

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BF0C4

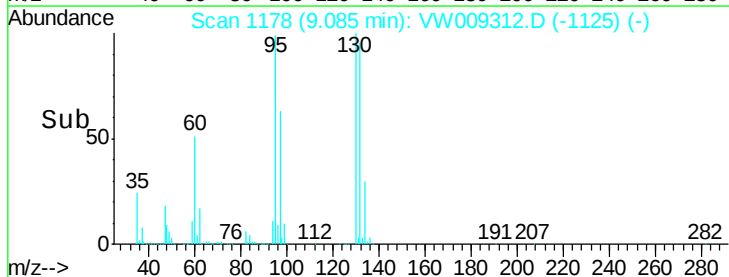
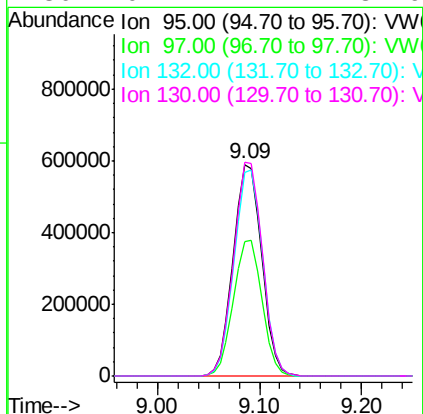
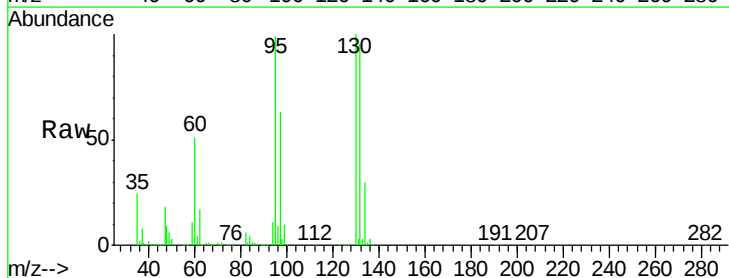
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 128.4 | 90.6  | 168.3 |
| 98      | 66.9  | 44.0  | 81.8  |

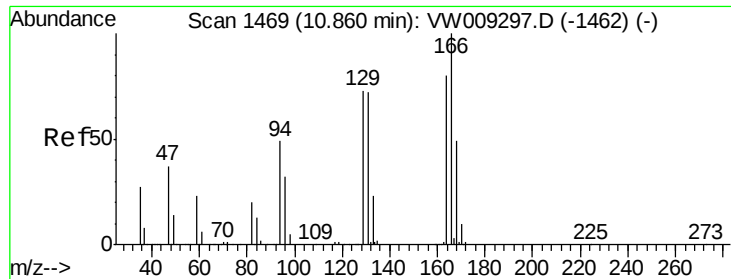


#35

Trichloroethene  
 Concen: 241.188 ug/L  
 RT: 9.09 min Scan# 1178  
 Delta R.T. -0.01 min  
 Lab File: VW009312.D  
 Acq: 21 Mar 2019 03:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 64.2  | 44.7  | 82.9  |
| 132     | 98.1  | 69.0  | 128.2 |
| 130     | 101.7 | 72.7  | 134.9 |





#47

Tetrachloroethene

Concen: 3.690 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009312.D

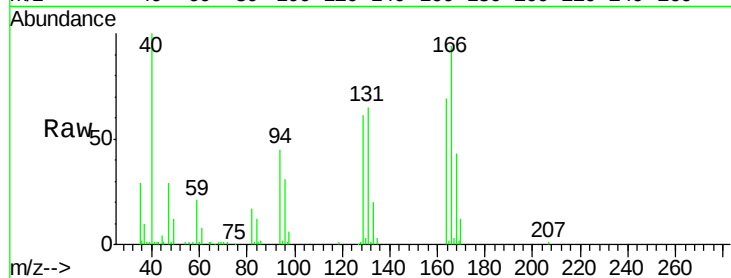
Acq: 21 Mar 2019 03:39

Instrument :

MSVOA\_W

ClientSampleId :

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Tot Ion:164 Resp: 14788

Ion Ratio Lower Upper

164 100

129 88.5 66.5 123.5

131 94.0 62.6 116.3

166 136.2 91.6 170.0

Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

