

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041119\  
 Data File : VW009938.D  
 Acq On : 12 Apr 2019 03:28  
 Operator : SY/VA  
 Sample : K2328-09  
 Misc : 4.46G/10ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 DB724

Quant Time: Apr 12 05:34:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 12 04:36:14 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 173320   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 172616   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 61721    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 43070    | 18.99    | ug/L | -0.01   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 75.96%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 40374    | 19.43    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 77.72%  |
| 10) 1,1-Dichloroethene-d2      | 4.00   | 63    | 79294    | 16.26    | ug/L | -0.02   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 65.04%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 31380    | 42.61    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 85.22%  |
| 24) Chloroform-d               | 7.65   | 84    | 130392   | 27.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 110.28% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 84024    | 28.94    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 115.76% |
| 29) Benzene-d6                 | 8.27   | 84    | 218597   | 24.12    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 96.48%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 77842    | 27.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 111.24% |
| 37) Toluene-d8                 | 10.32  | 98    | 176486   | 21.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 84.24%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 27464    | 20.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 82.28%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 24080    | 45.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 91.30%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 68710    | 26.41    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 105.64% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 63019    | 29.10    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 116.40% |

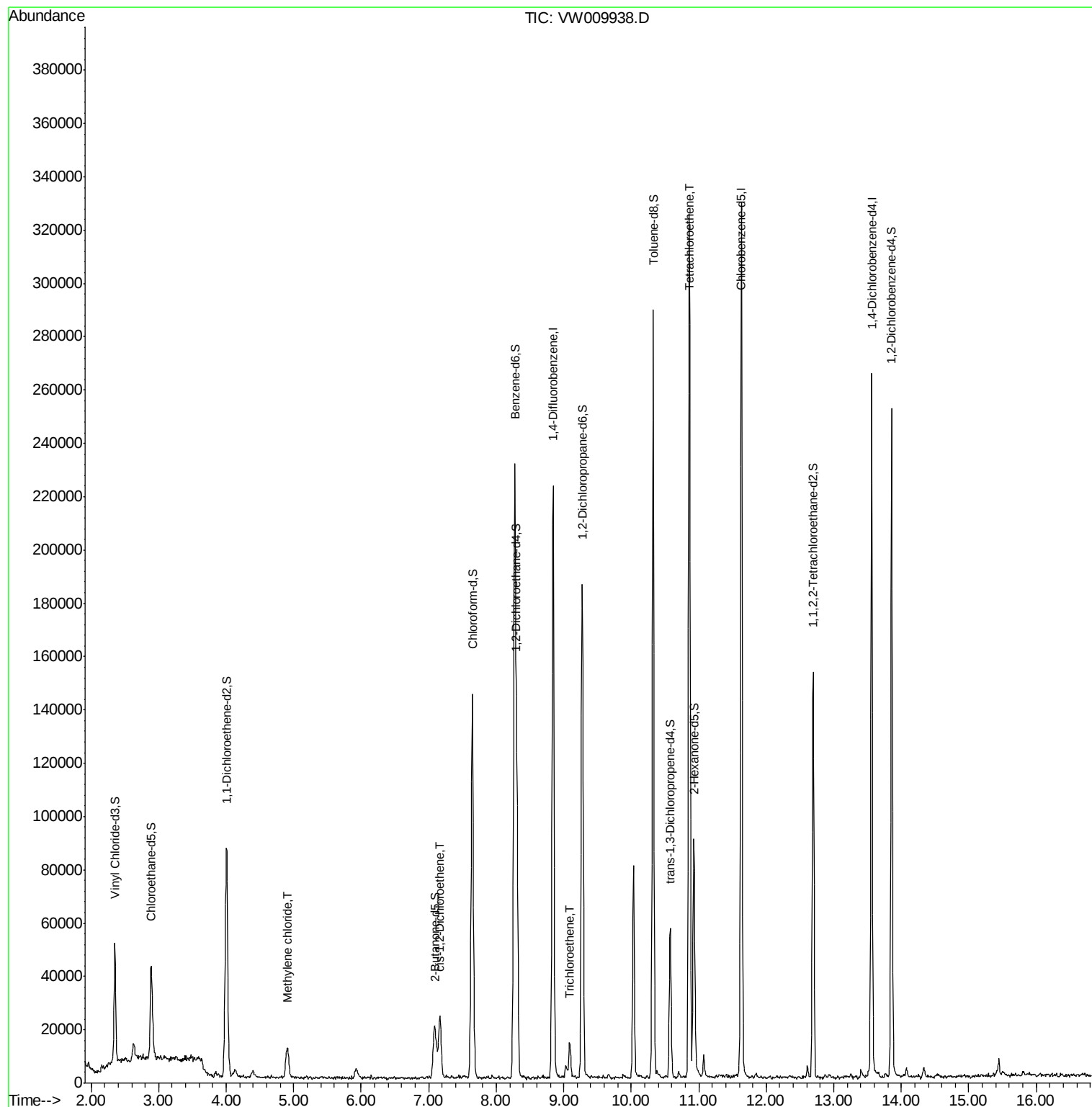
| Target Compounds           |       |     |       |             | Ovalue |
|----------------------------|-------|-----|-------|-------------|--------|
| 16) Methylene chloride     | 4.91  | 84  | 7304  | 2.389 ug/L  | 86     |
| 22) cis-1,2-Dichloroethene | 7.17  | 96  | 11115 | 4.341 ug/L  | 98     |
| 35) Trichloroethene        | 9.09  | 95  | 3825  | 1.407 ug/L  | 96     |
| 47) Tetrachloroethene      | 10.86 | 164 | 64719 | 30.234 ug/L | 99     |

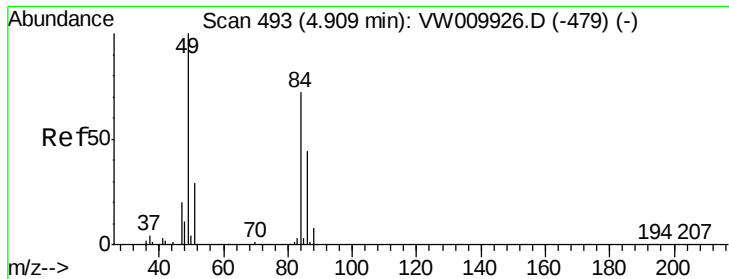
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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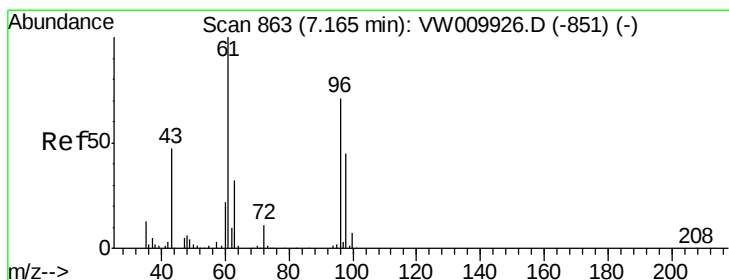
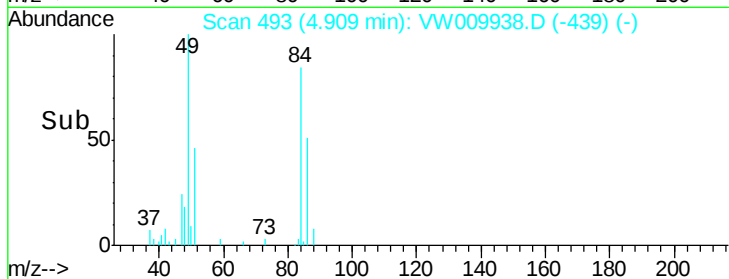
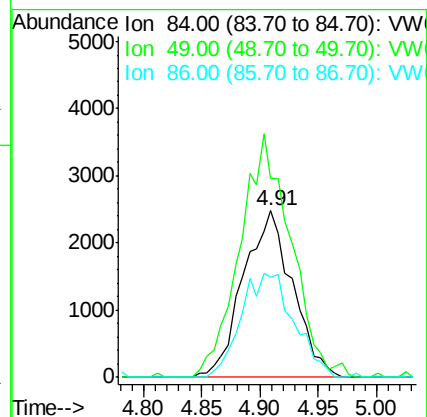
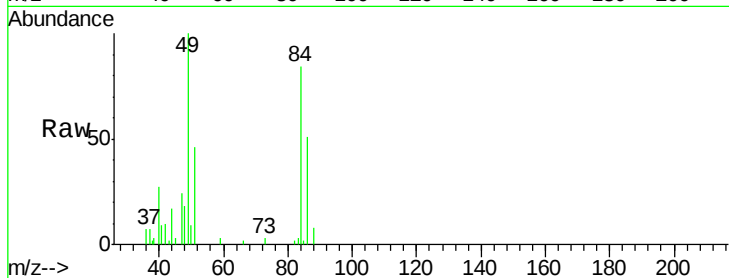




#16  
Methylene chloride  
Concen: 2.389 ug/L  
RT: 4.91 min Scan# 493  
Delta R.T. -0.00 min  
Lab File: VW009938.D  
Acq: 12 Apr 2019 03:28

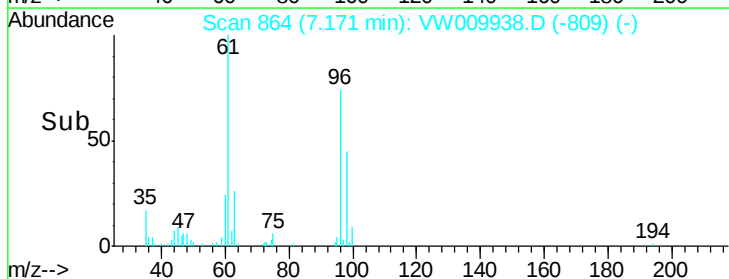
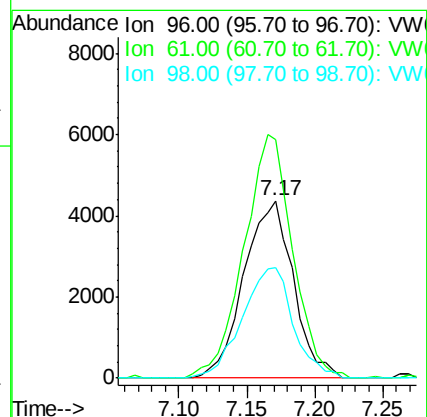
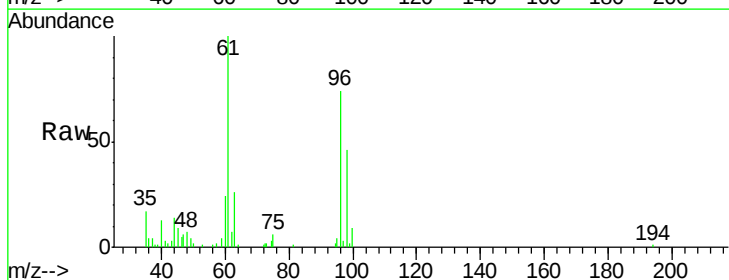
Instrument :  
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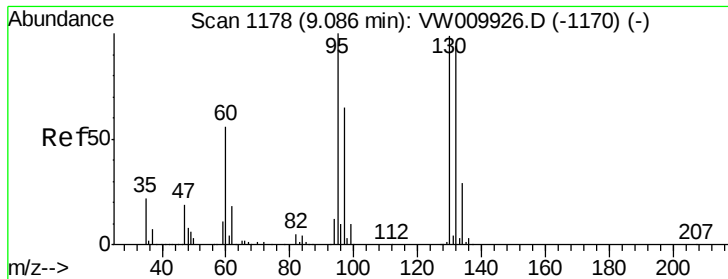
Tot Ion: 84 Resp: 7304  
Ion Ratio Lower Upper  
84 100  
49 119.6 98.3 182.5  
86 60.5 46.4 86.2



#22  
cis-1,2-Dichloroethene  
Concen: 4.341 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. 0.01 min  
Lab File: VW009938.D  
Acq: 12 Apr 2019 03:28

Tgt Ion: 96 Resp: 11115  
Ion Ratio Lower Upper  
96 100  
61 134.5 96.8 179.8  
98 62.1 43.5 80.9

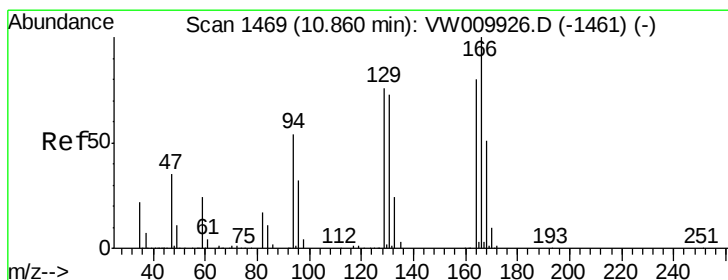
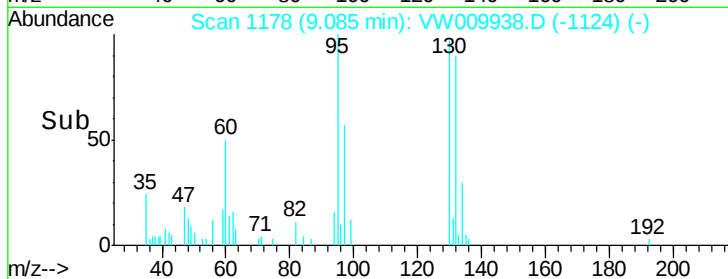
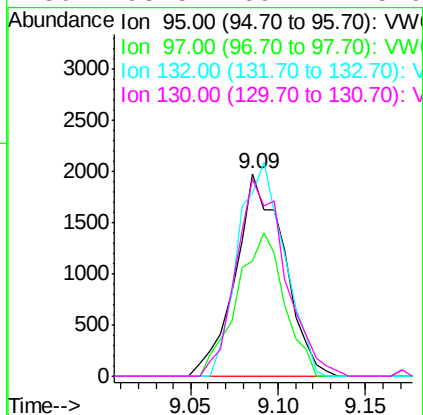
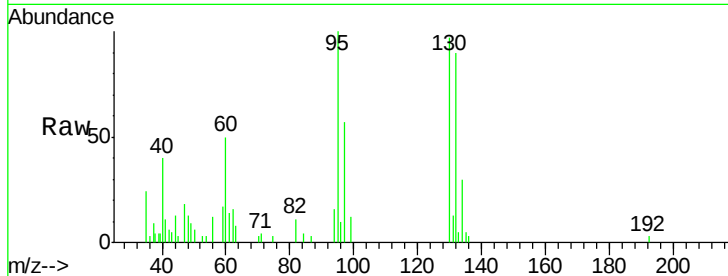




#35  
 Trichloroethene  
 Concen: 1.407 ug/L  
 RT: 9.09 min Scan# 1178  
 Delta R.T. -0.00 min  
 Lab File: VW009938.D  
 Acq: 12 Apr 2019 03:28

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|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 3825  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 69.2  | 44.9  | 83.5  |
| 132      | 101.0 | 67.1  | 124.7 |
| 130      | 98.5  | 69.2  | 128.6 |



#47  
 Tetrachloroethene  
 Concen: 30.234 ug/L  
 RT: 10.86 min Scan# 1469  
 Delta R.T. -0.00 min  
 Lab File: VW009938.D  
 Acq: 12 Apr 2019 03:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 64719 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 96.7  | 68.9  | 127.9 |
| 131      | 92.6  | 63.1  | 117.1 |
| 166      | 126.9 | 88.5  | 164.4 |

