

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021120\  
 Data File : VW014962.D  
 Acq On : 11 Feb 2020 13:45  
 Operator : SY/VA  
 Sample : L1416-13  
 Misc : 3.20G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Feb 12 00:15:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM020520S.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Feb 12 00:12:37 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 785952   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 731442   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 268036   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 238571   | 18.34    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 73.36%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 243466   | 23.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 93.48%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 397791   | 16.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 66.92%  |
| 20) 2-Butanone-d5              | 7.07   | 46    | 157677   | 43.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 86.36%  |
| 24) Chloroform-d               | 7.65   | 84    | 587505   | 26.33    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 105.32% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 326668   | 26.45    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 105.80% |
| 29) Benzene-d6                 | 8.27   | 84    | 1146171  | 24.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 97.48%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 404132   | 26.37    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 105.48% |
| 37) Toluene-d8                 | 10.32  | 98    | 957645   | 23.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 92.52%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 122217   | 20.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 80.76%  |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 104933   | 37.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 75.12%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 239300   | 20.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 82.92%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 264968   | 25.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 101.96% |

## Target Compounds

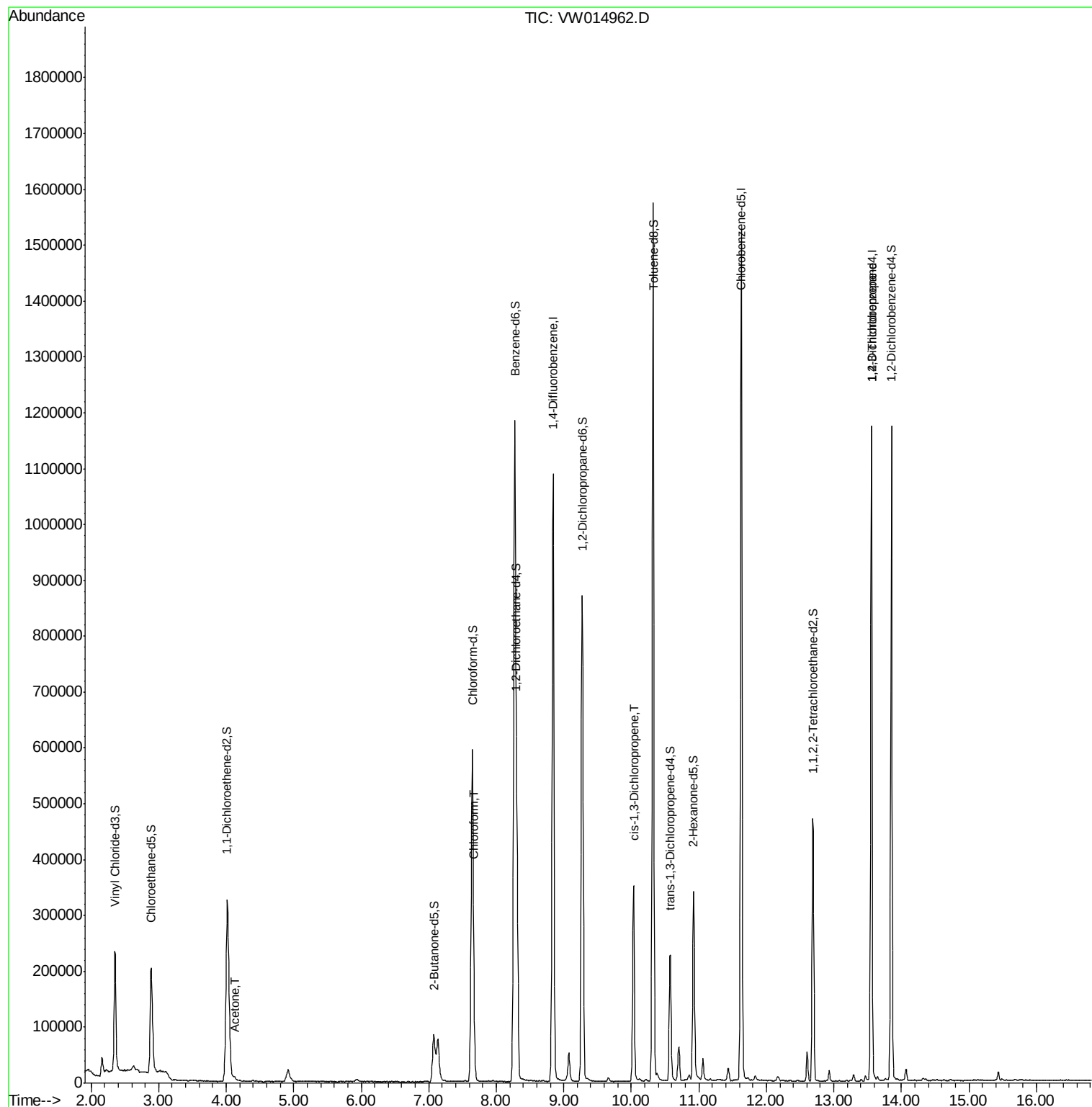
|                             |       |    |       |              | Ovalue |
|-----------------------------|-------|----|-------|--------------|--------|
| 13) Acetone                 | 4.12  | 43 | 9541  | 2.531 ug/L   | 71     |
| 25) Chloroform              | 7.67  | 83 | 17528 | 0.834 ug/L # | 68     |
| 42) cis-1,3-Dichloropropene | 10.04 | 75 | 8917  | 0.467 ug/L # | 82     |
| 59) 1,2,3-Trichloropropane  | 13.56 | 75 | 43549 | 5.234 ug/L   | 92     |

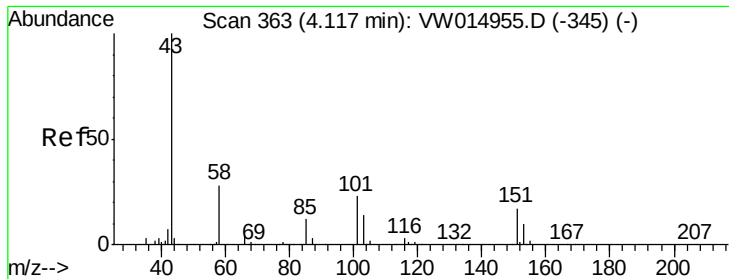
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L1416-13  
Misc : 3.20G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

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MSVOA\_W  
ClientSampleId :

Quant Time: Feb 12 00:15:07 2020  
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QLast Update : Wed Feb 12 00:12:37 2020  
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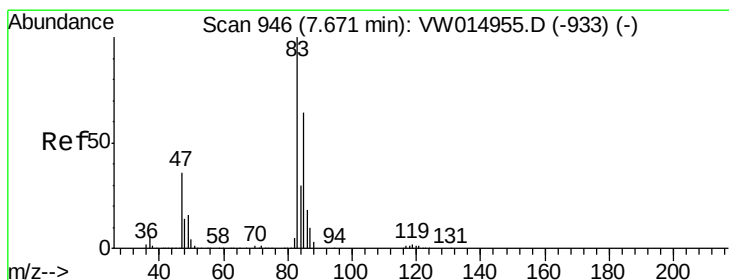
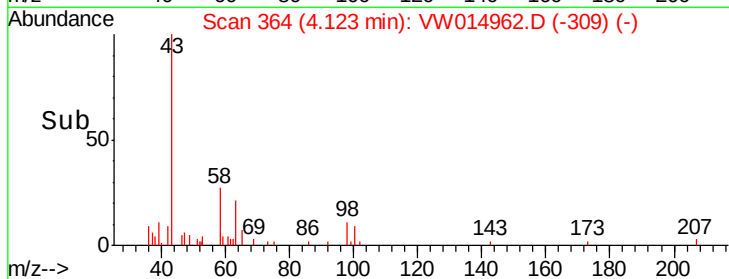
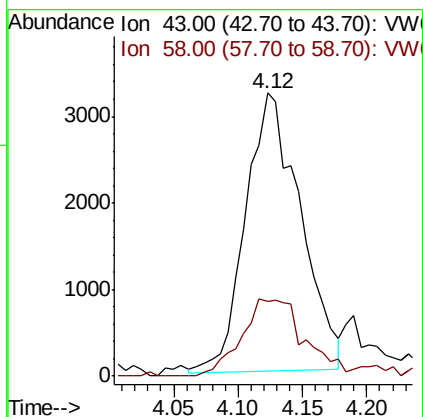
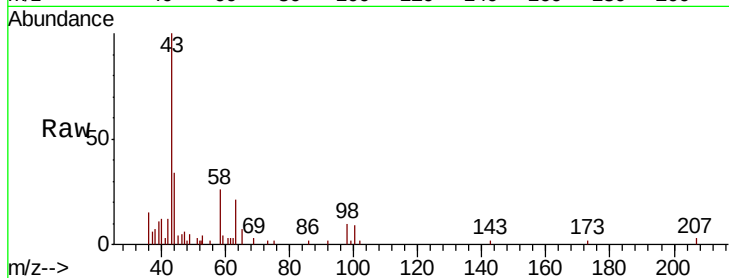




#13  
Acetone  
Concen: 2.531 ug/L  
RT: 4.12 min Scan# 364  
Delta R.T. 0.01 min  
Lab File: VW014962.D  
Acq: 11 Feb 2020 13:45

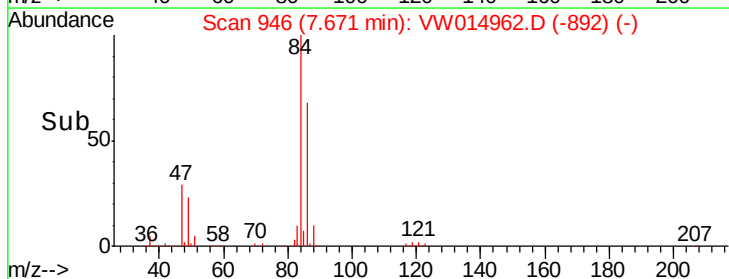
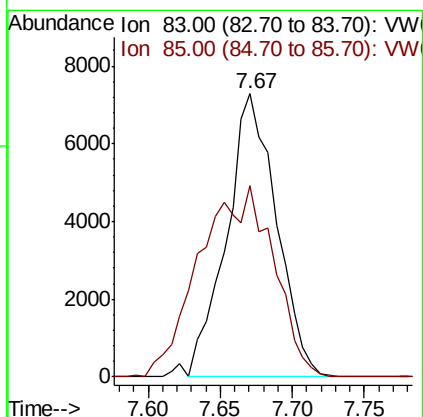
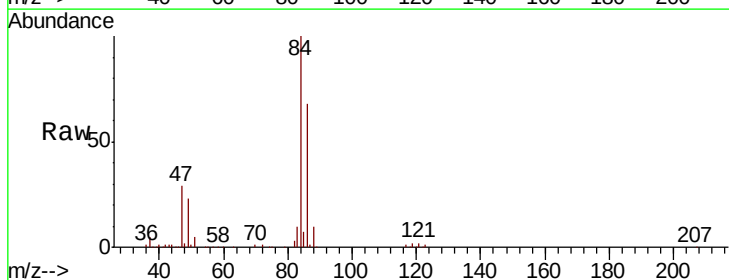
Instrument :  
MSVOA\_W  
ClientSampled :

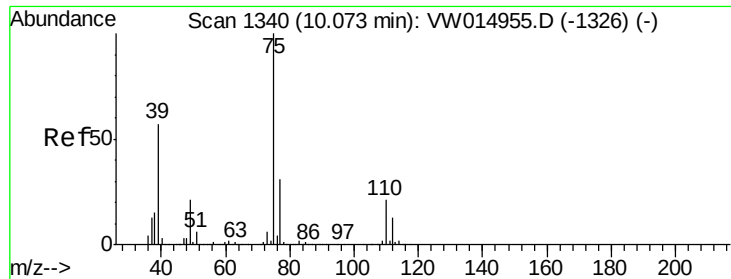
Tot Ion: 43 Resp: 9541  
Ion Ratio Lower Upper  
43 100  
58 14.5 0.0 60.4



#25  
Chloroform  
Concen: 0.834 ug/L  
RT: 7.67 min Scan# 946  
Delta R.T. -0.00 min  
Lab File: VW014962.D  
Acq: 11 Feb 2020 13:45

Tgt Ion: 83 Resp: 17528  
Ion Ratio Lower Upper  
83 100  
85 39.6 45.4 84.4#

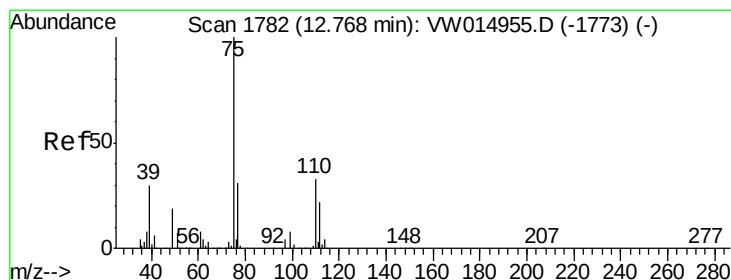
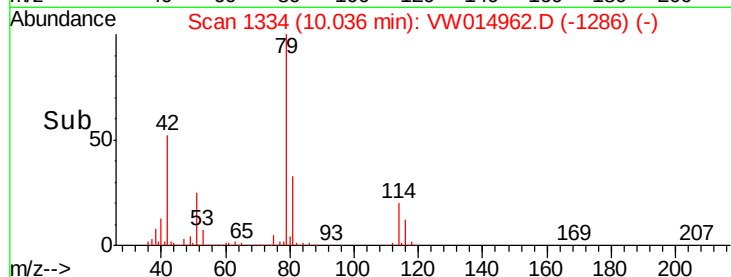
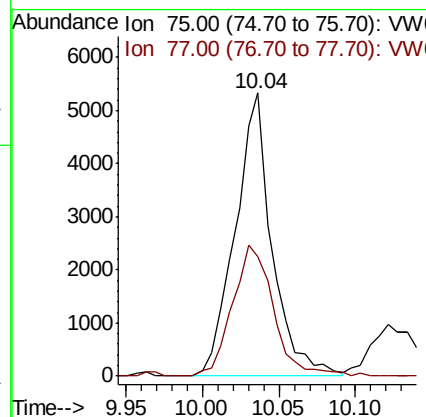
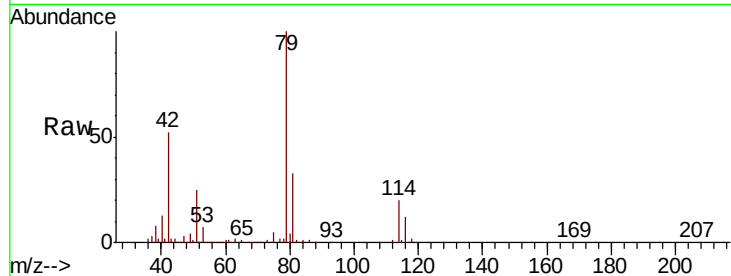




#42  
 cis-1,3-Dichloropropene  
 Concen: 0.467 ug/L  
 RT: 10.04 min Scan# 1334  
 Delta R.T. -0.04 min  
 Lab File: VW014962.D  
 Acq: 11 Feb 2020 13:45

Instrument :  
 MSVOA\_W  
 ClientSampled :

Tot Ion: 75 Resp: 8917  
 Ion Ratio Lower Upper  
 75 100  
 77 42.2 22.5 41.9#



#59  
 1,2,3-Trichloropropane  
 Concen: 5.234 ug/L  
 RT: 13.56 min Scan# 1912  
 Delta R.T. 0.79 min  
 Lab File: VW014962.D  
 Acq: 11 Feb 2020 13:45

Tgt Ion: 75 Resp: 43549  
 Ion Ratio Lower Upper  
 75 100  
 77 36.9 25.9 38.9

