

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090320\  
 Data File : VW016453.D  
 Acq On : 03 Sep 2020 18:06  
 Operator : SY/VA  
 Sample : L3905-09  
 Misc : 5.92G/10ML/MSVOA W/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFX03

Manual Integrations  
 APPROVED

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 9/4/2020 3:36:58 PM

Quant Time: Sep 04 06:13:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM090320S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Sep 04 04:59:18 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 929809   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 806797   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 363670   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.36   | 65    | 276799   | 28.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 112.24% |
| 7) Chloroethane-d5             | 2.90   | 69    | 223416   | 25.22    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 100.88% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 402506   | 17.75    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 71.00%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 106876   | 30.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 60.68%  |
| 24) Chloroform-d               | 7.65   | 84    | 484856   | 22.26    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 89.04%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 247954m  | 20.82    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 83.28%  |
| 29) Benzene-d6                 | 8.28   | 84    | 1020551  | 24.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 99.52%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 276759   | 22.97    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 91.88%  |
| 37) Toluene-d8                 | 10.33  | 98    | 977468   | 25.07    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.28% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 131707   | 21.66    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 86.64%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 85630    | 34.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 69.54%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 193487   | 18.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 75.96%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 306379   | 24.38    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 97.52%  |

| Target Compounds           |       |     |         |              | Ovalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 22) cis-1,2-Dichloroethene | 7.17  | 96  | 32472   | 2.561 ug/L   | 98     |
| 35) Trichloroethene        | 9.10  | 95  | 16835   | 1.377 ug/L   | 98     |
| 47) Tetrachloroethene      | 10.87 | 164 | 1693929 | 172.848 ug/L | 98     |

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

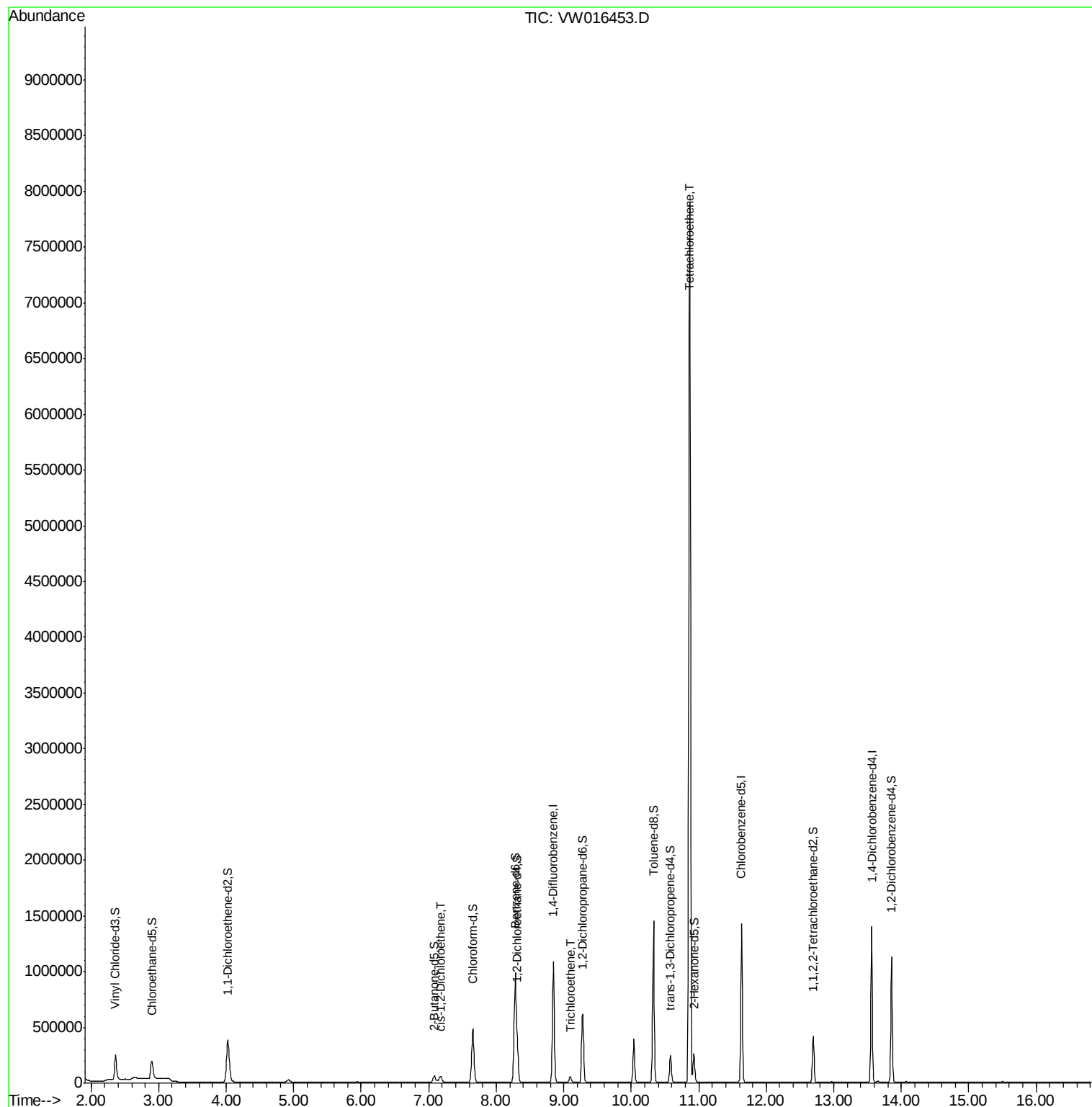
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW090320\  
Data File : VW016453.D  
Acq On : 03 Sep 2020 18:06  
Operator : SY/VA  
Sample : L3905-09  
Misc : 5.92G/10ML/MSVOA W/SOIL  
ALS Vial : 18 Sample Multiplier: 1

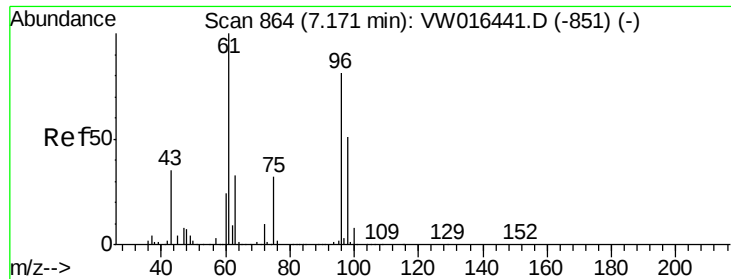
Instrument :  
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ClientSampleId :  
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Quant Time: Sep 04 06:13:23 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM090320S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 04 04:59:18 2020  
Response via : Initial Calibration





#22

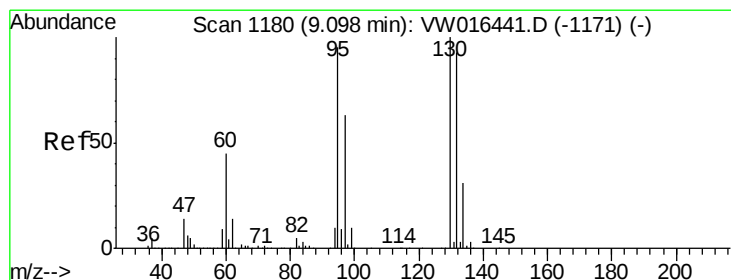
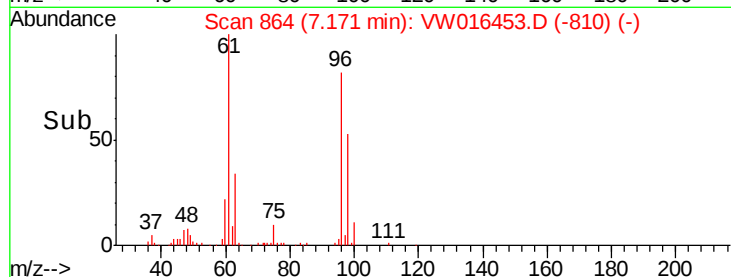
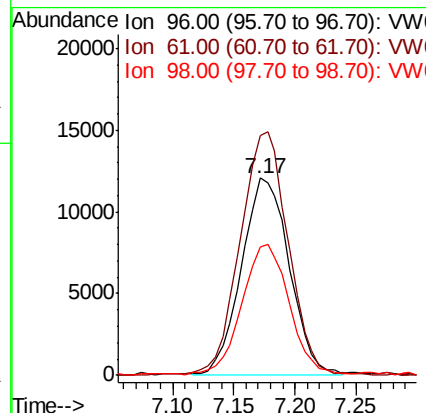
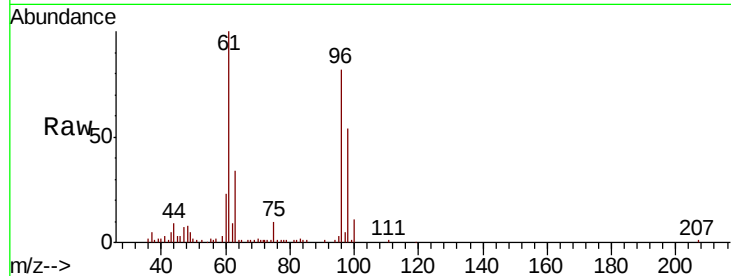
cis-1,2-Dichloroethene  
Concen: 2.561 ug/L  
RT: 7.17 min Scan# 864  
Delta R.T. 0.00 min  
Lab File: VW016453.D  
Acq: 03 Sep 2020 18:06

Instrument :  
MSVOA\_W  
ClientSampleId :  
BFX03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 121.3 | 86.1  | 159.9 |
| 98      | 65.1  | 44.1  | 81.9  |

Manual Integrations  
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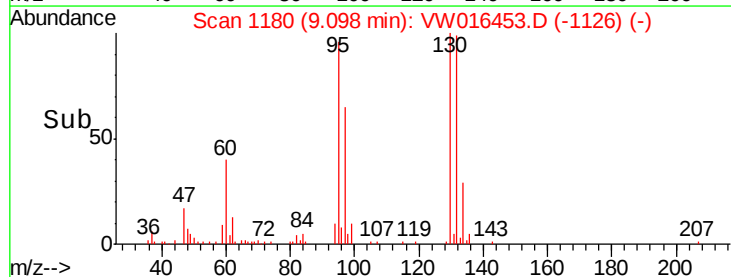
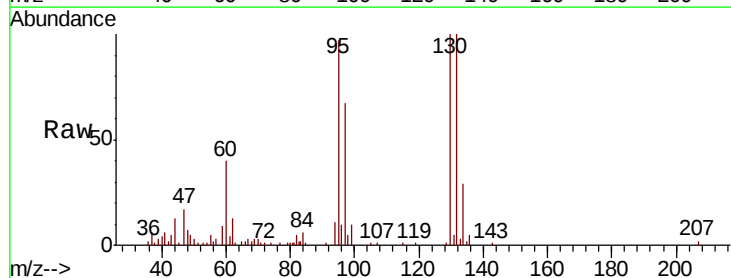
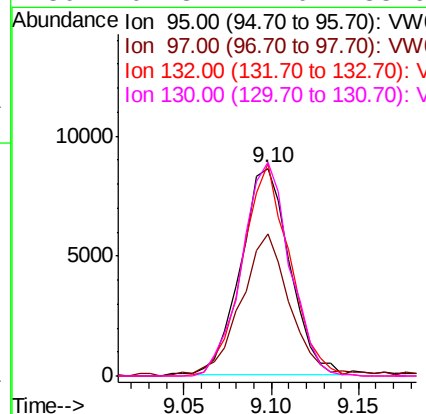
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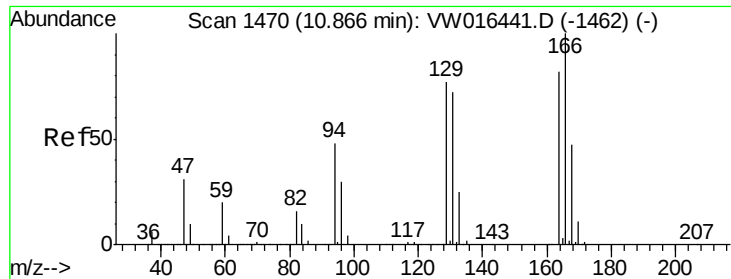


#35

Trichloroethene  
Concen: 1.377 ug/L  
RT: 9.10 min Scan# 1180  
Delta R.T. 0.00 min  
Lab File: VW016453.D  
Acq: 03 Sep 2020 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 67.7  | 44.9  | 83.5  |
| 132     | 99.2  | 69.2  | 128.4 |
| 130     | 101.3 | 72.0  | 133.6 |





#47  
 Tetrachloroethene  
 Concen: 172.848 ug/L  
 RT: 10.87 min Scan# 1470  
 Delta R.T. 0.00 min  
 Lab File: VW016453.D  
 Acq: 03 Sep 2020 18:06

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 129     | 89.4  | 65.7  | 121.9 |
| 131     | 85.7  | 61.1  | 113.5 |
| 166     | 120.8 | 85.0  | 157.8 |

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