

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101519\  
 Data File : VV013160.D  
 Acq On : 15 Oct 2019 12:35  
 Operator : SY/MD  
 Sample : K5347-11  
 Misc : 5.00ML/MSVOA V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 15 18:15:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 15 18:13:27 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 758673   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 722304   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 280629   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 214598   | 44.75    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.50% |
| 7) Chloroethane-d5             | 1.58    | 69    | 170703   | 43.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.84% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 274405   | 30.34    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 60.68% |
| 21) 2-Butanone-d5              | 3.97    | 46    | 247075   | 68.52    | ug/L | 0.05   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 68.52% |
| 24) Chloroform-d               | 4.40    | 84    | 381282   | 41.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.60% |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 243728   | 42.83    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.66% |
| 32) Benzene-d6                 | 5.09    | 84    | 815070   | 42.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 84.60% |
| 36) 1,2-Dichloropropane-d6     | 6.11    | 67    | 257962   | 42.72    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 85.44% |
| 41) Toluene-d8                 | 7.36    | 98    | 692787   | 40.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 80.34% |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 102069   | 37.32    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 74.64% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 141640   | 58.96    | ug/L | 0.01   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 58.96% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 278972   | 35.80    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 71.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67   | 152   | 252083   | 45.85    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.70% |

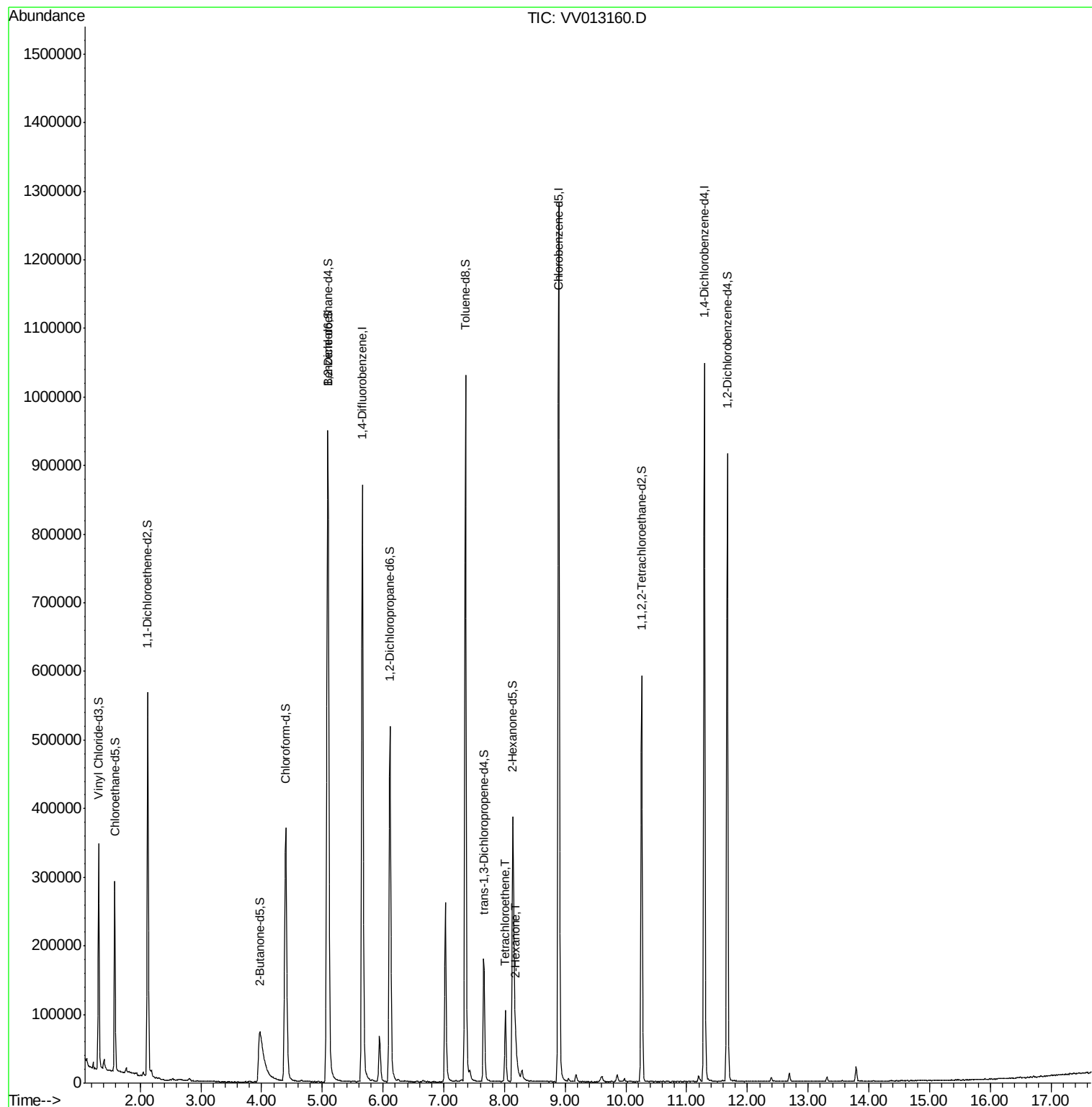
| Target Compounds      |      |     |       |              | Ovalue |
|-----------------------|------|-----|-------|--------------|--------|
| 46) Tetrachloroethene | 8.02 | 164 | 24061 | 5.188 ug/L   | 98     |
| 48) 2-Hexanone        | 8.19 | 43  | 26377 | 4.574 ug/L # | 82     |

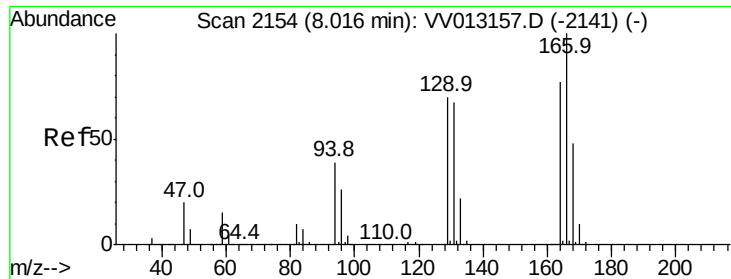
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV101519\  
Data File : VV013160.D  
Acq On : 15 Oct 2019 12:35  
Operator : SY/MD  
Sample : K5347-11  
Misc : 5.00ML/MSVOA V/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Oct 15 18:15:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101119WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Oct 15 18:13:27 2019  
Response via : Initial Calibration

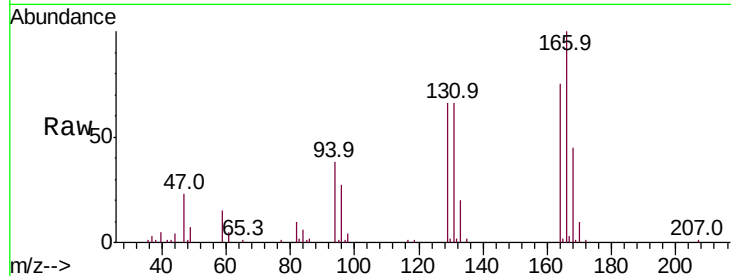




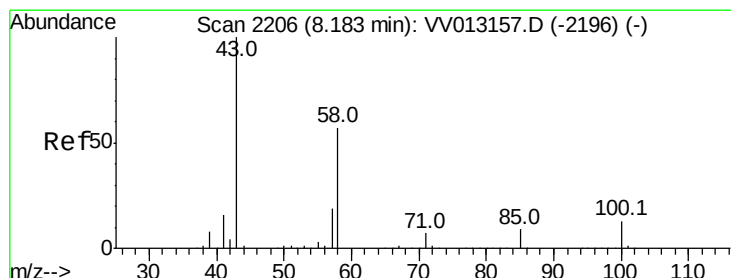
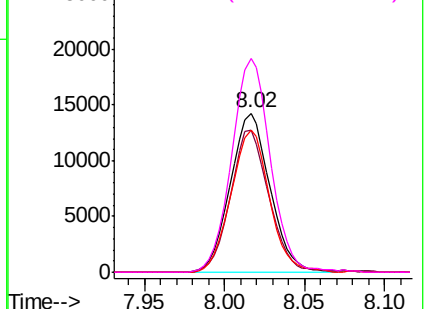
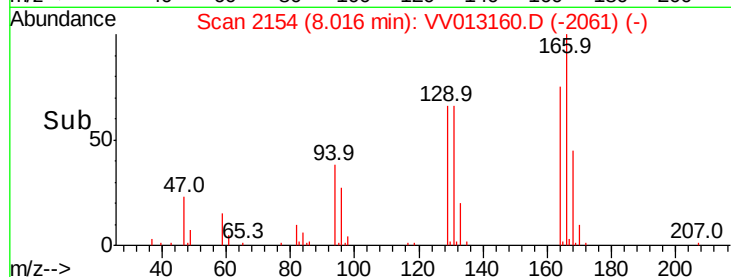
#46  
Tetrachloroethene  
Concen: 5.188 ug/L  
RT: 8.02 min Scan# 2154  
Delta R.T. 0.00 min  
Lab File: VV013160.D  
Acq: 15 Oct 2019 12:35

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion:164 Resp: 24061  
Ion Ratio Lower Upper  
164 100  
129 89.1 63.1 117.1  
131 89.1 62.4 116.0  
166 134.1 91.3 169.6

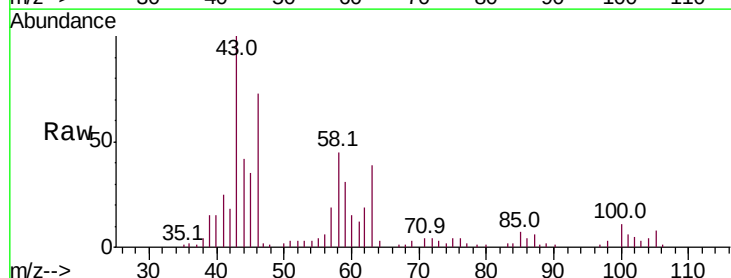


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V



#48  
2-Hexanone  
Concen: 4.574 ug/L  
RT: 8.19 min Scan# 2207  
Delta R.T. 0.01 min  
Lab File: VV013160.D  
Acq: 15 Oct 2019 12:35

Tgt Ion: 43 Resp: 26377  
Ion Ratio Lower Upper  
43 100  
58 41.8 44.9 67.3#  
57 10.1 15.0 22.6#  
100 10.4 10.2 15.2



Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0

