

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV090418\  
 Data File : VV007351.D  
 Acq On : 05 Sep 2018 01:20  
 Operator : SY/MD  
 Sample : J4695-06 20X  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BEE48

Quant Time: Sep 05 01:46:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090418WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 05 01:26:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 509324   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 493640   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 181103   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 168748   | 46.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.78%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 111394   | 46.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.48%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 232353   | 36.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.52%  |
| 21) 2-Butanone-d5              | 3.96    | 46    | 267222   | 90.30    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 90.30%  |
| 24) Chloroform-d               | 4.41    | 84    | 346929   | 46.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 217528   | 47.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.84%  |
| 32) Benzene-d6                 | 5.11    | 84    | 698851   | 46.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.94%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 234903   | 47.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.22%  |
| 41) Toluene-d8                 | 7.37    | 98    | 565552   | 44.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.32%  |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 92299    | 43.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.92%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 177435   | 90.78    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 90.78%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 306087   | 44.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.90%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 208510   | 53.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.14% |

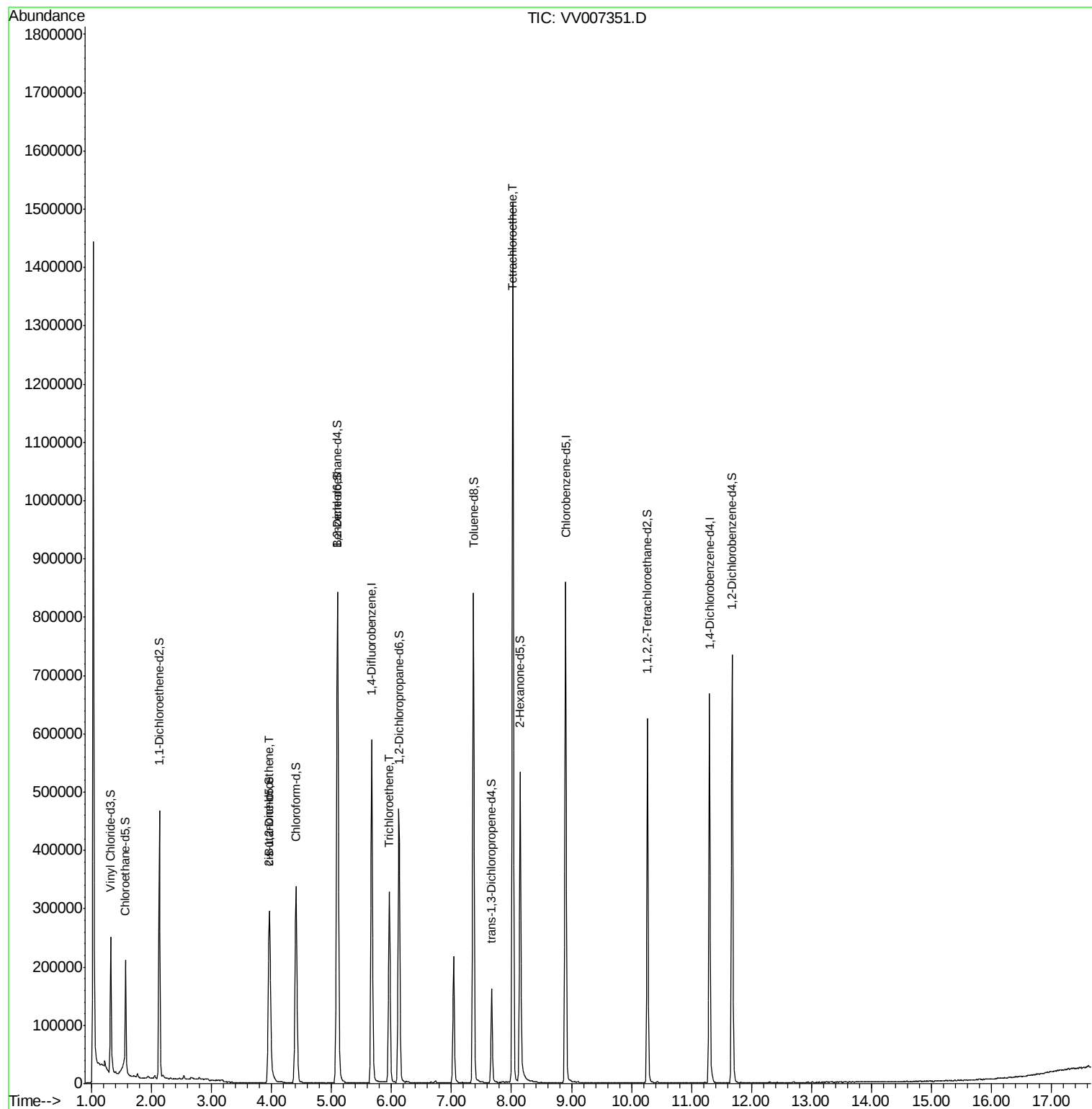
| Target Compounds           |      |     |        |        |      | Ovalue |
|----------------------------|------|-----|--------|--------|------|--------|
| 20) cis-1,2-Dichloroethene | 3.97 | 96  | 84158  | 20.81  | ug/L | 100    |
| 34) Trichloroethene        | 5.96 | 95  | 112489 | 29.18  | ug/L | 97     |
| 46) Tetrachloroethene      | 8.02 | 164 | 356523 | 115.03 | ug/L | 97     |

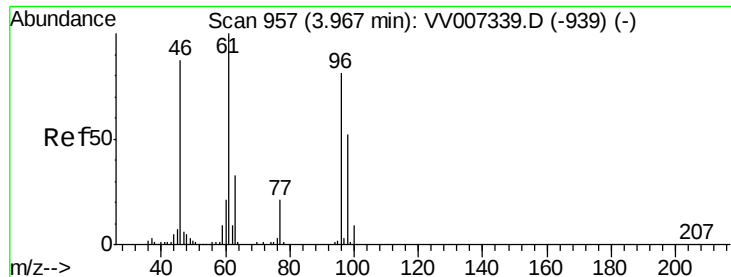
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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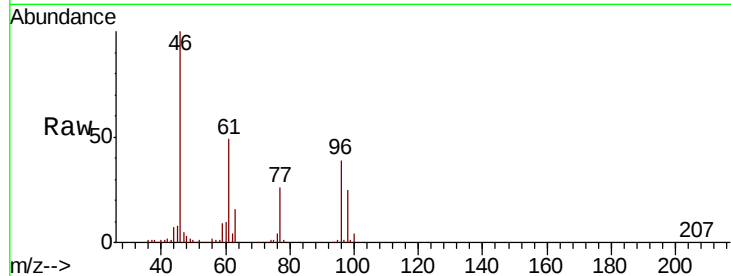




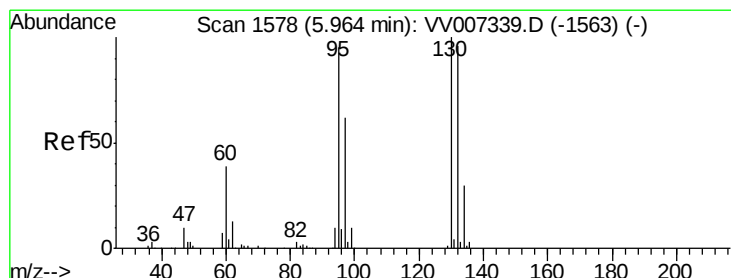
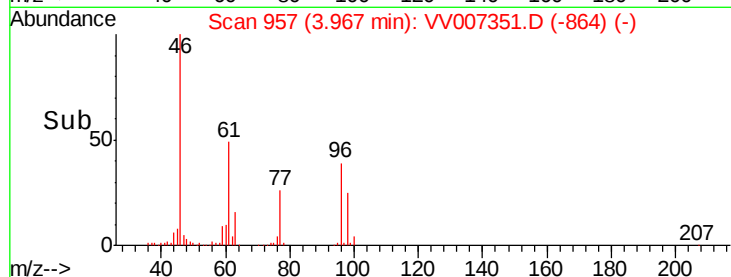
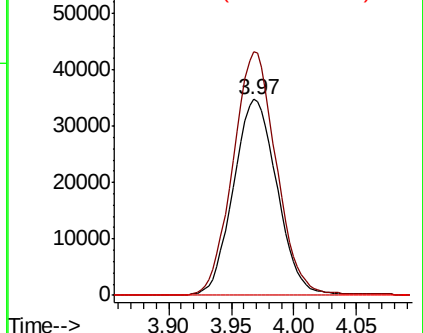
#20  
 cis-1,2-Dichloroethene  
 Concen: 20.81 ug/L  
 RT: 3.97 min Scan# 957  
 Delta R.T. 0.00 min  
 Lab File: VV007351.D  
 Acq: 05 Sep 2018 01:20

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
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Tot Ion: 96 Resp: 84158  
 Ion Ratio Lower Upper  
 96 100  
 61 124.4 86.8 161.2  
 68 0.0 0.0 0.0

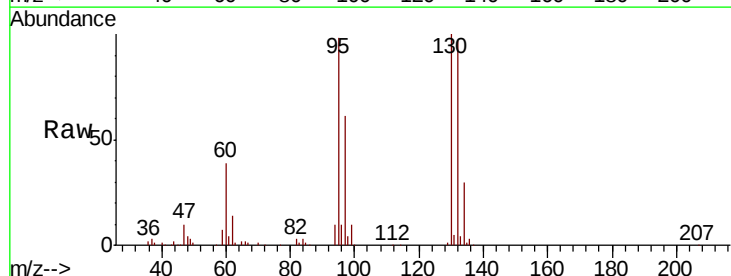


Abundance Ion 96.00 (95.70 to 96.70): VV0  
 Ion 61.00 (60.70 to 61.70): VV0  
 Ion 68.00 (67.70 to 68.70): VV0

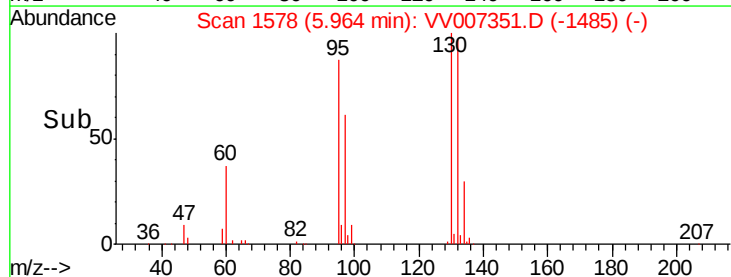
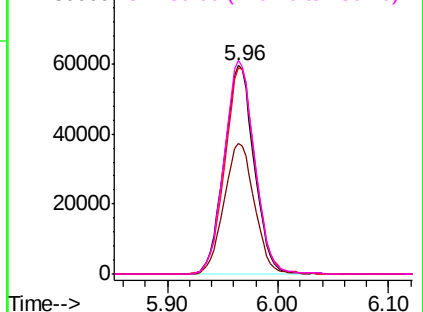


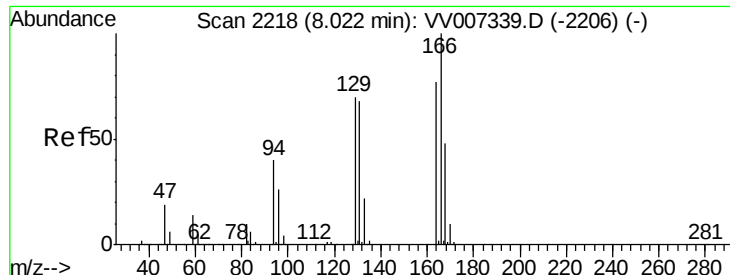
#34  
 Trichloroethene  
 Concen: 29.18 ug/L  
 RT: 5.96 min Scan# 1578  
 Delta R.T. 0.00 min  
 Lab File: VV007351.D  
 Acq: 05 Sep 2018 01:20

Tgt Ion: 95 Resp: 112489  
 Ion Ratio Lower Upper  
 95 100  
 97 62.9 46.1 85.7  
 132 99.0 70.8 131.6  
 130 102.5 73.9 137.3



Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 97.00 (96.70 to 97.70): VV0  
 Ion 132.00 (131.70 to 132.70): VV0  
 Ion 130.00 (129.70 to 130.70): VV0





#46

Tetrachloroethene

Concen: 115.03 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VV007351.D

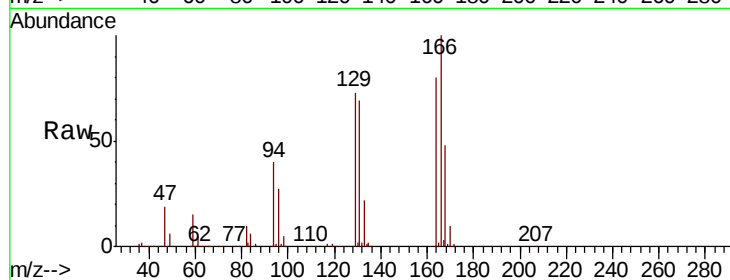
Acq: 05 Sep 2018 01:20

Instrument :

MSVOA\_V

ClientSampleId :

BEE48



Tot Ion:164 Resp: 356523

Ion Ratio Lower Upper

164 100

129 91.2 63.9 118.7

131 86.5 62.6 116.2

166 124.9 91.6 170.2

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

