

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042919\  
 Data File : VU031581.D  
 Acq On : 29 Apr 2019 13:12  
 Operator : JC/SP  
 Sample : K2536-19 20X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0X07

Quant Time: Apr 30 02:57:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Apr 30 01:54:25 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 709427   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 670011   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 253553   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 307324   | 51.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 103.52% |
| 7) Chloroethane-d5             | 1.68    | 69    | 248281   | 54.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 108.22% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 455292   | 38.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 77.02%  |
| 21) 2-Butanone-d5              | 4.19    | 46    | 605221   | 112.50   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 112.50% |
| 24) Chloroform-d               | 4.64    | 84    | 547175   | 50.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.64% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 371954   | 52.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.72% |
| 32) Benzene-d6                 | 5.34    | 84    | 1062645  | 51.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.30% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 387212   | 53.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 106.98% |
| 41) Toluene-d8                 | 7.56    | 98    | 910343   | 50.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.60% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 154588   | 49.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.50%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 350095   | 111.74   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 111.74% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 500655   | 51.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 103.08% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 288057   | 54.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 108.04% |

## Target Compounds

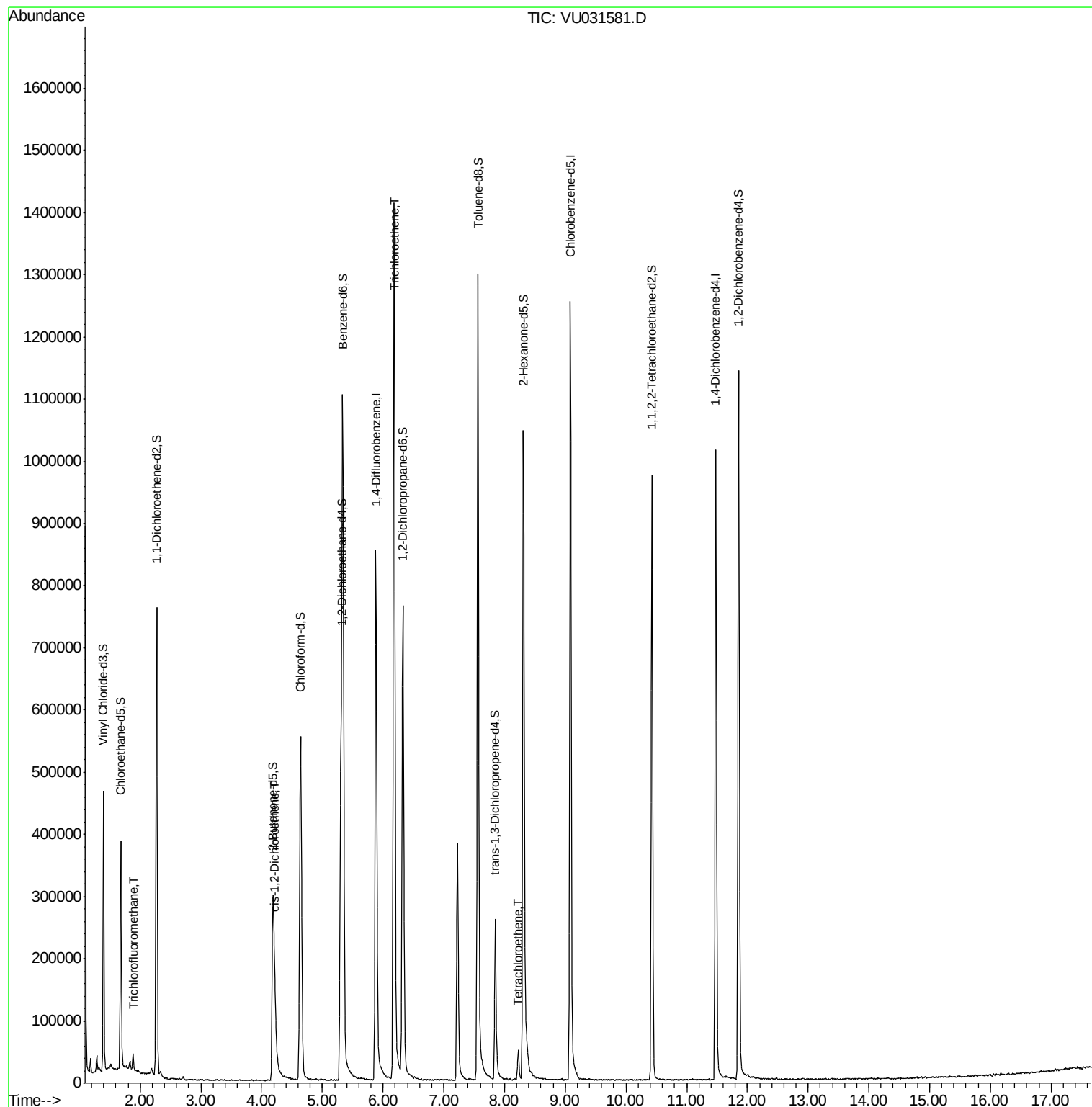
|                            |      |     |        |             | Ovalue |
|----------------------------|------|-----|--------|-------------|--------|
| 9) Trichlorofluoromethane  | 1.88 | 101 | 10230  | 1.017 ug/L  | 88     |
| 20) cis-1,2-Dichloroethene | 4.22 | 96  | 13703  | 2.215 ug/L  | 93     |
| 34) Trichloroethene        | 6.18 | 95  | 523029 | 87.591 ug/L | 98     |
| 46) Tetrachloroethene      | 8.23 | 164 | 10757  | 2.642 ug/L  | 93     |

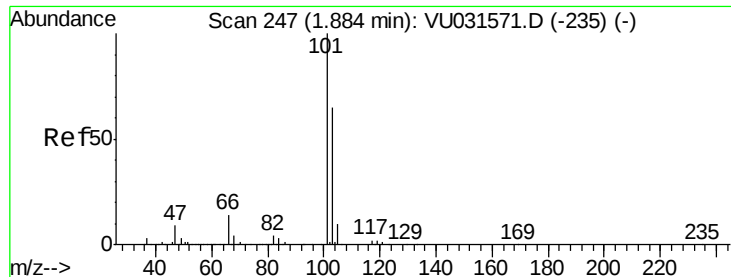
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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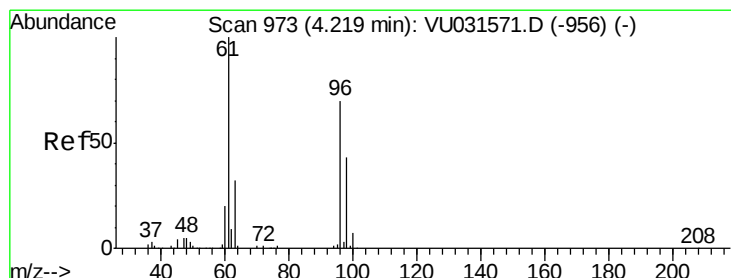
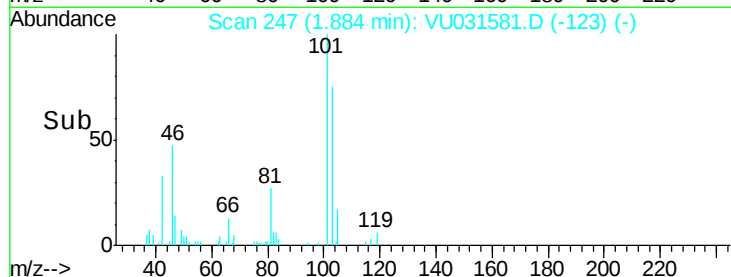
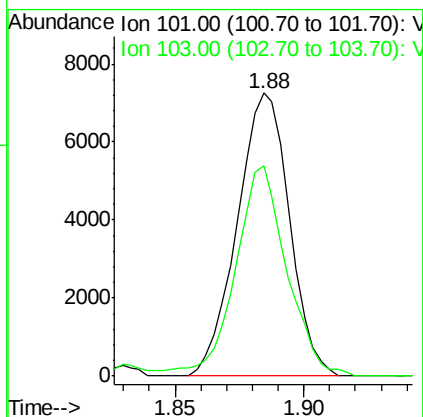
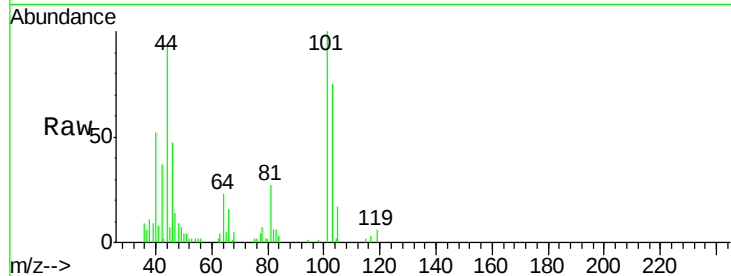


#9

Trichlorofluoromethane  
 Concen: 1.017 ug/L  
 RT: 1.88 min Scan# 247  
 Delta R.T. 0.00 min  
 Lab File: VU031581.D  
 Acq: 29 Apr 2019 13:12

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0X07

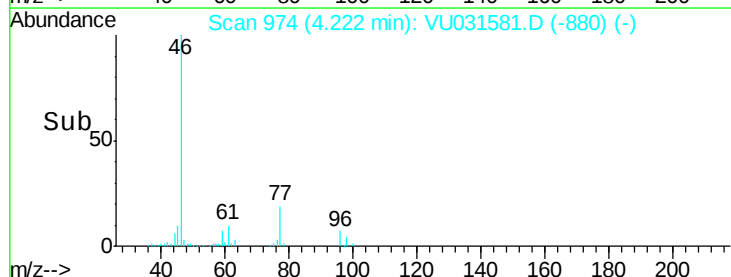
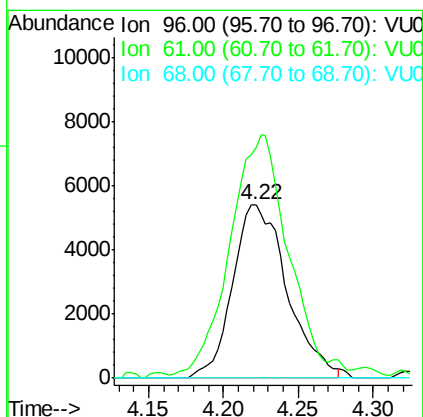
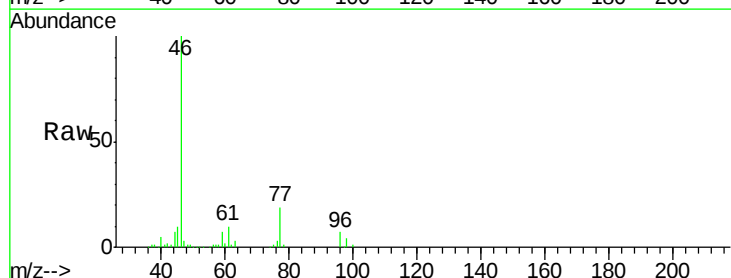
Tot Ion:101 Resp: 10230  
 Ion Ratio Lower Upper  
 101 100  
 103 73.2 50.8 76.2

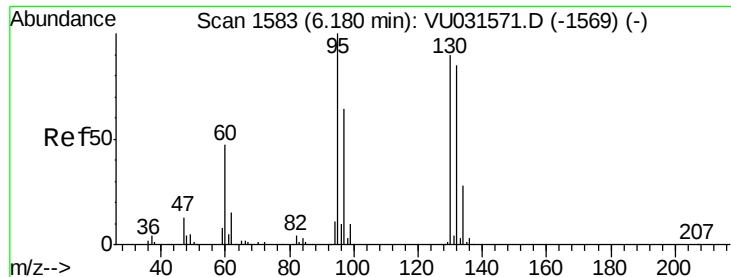


#20

cis-1,2-Dichloroethene  
 Concen: 2.215 ug/L  
 RT: 4.22 min Scan# 974  
 Delta R.T. 0.00 min  
 Lab File: VU031581.D  
 Acq: 29 Apr 2019 13:12

Tgt Ion: 96 Resp: 13703  
 Ion Ratio Lower Upper  
 96 100  
 61 133.0 99.5 184.7  
 68 0.0 0.0 0.0





#34

Trichloroethene

Concen: 87.591 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU031581.D

Acq: 29 Apr 2019 13:12

Instrument :

MSVOA\_U

ClientSampleId :

C0X07

Tot Ion: 95 Resp: 523029

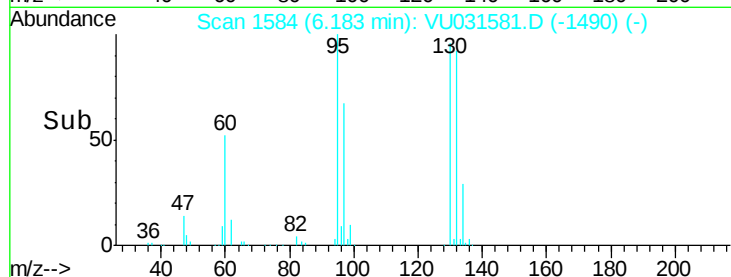
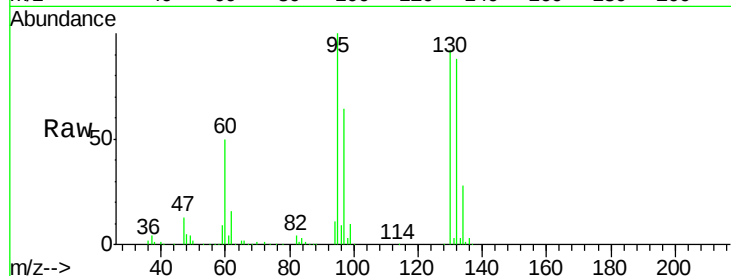
Ion Ratio Lower Upper

95 100

97 64.0 44.8 83.2

132 88.4 63.1 117.1

130 92.5 66.5 123.5

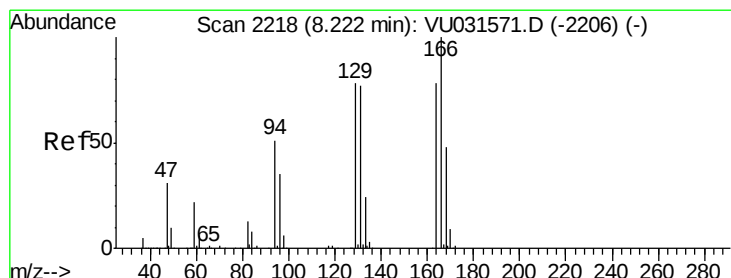
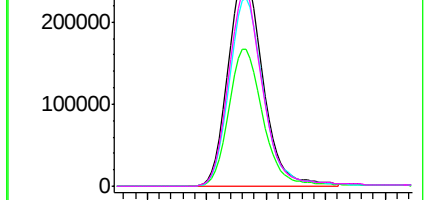


Abundance Ion 95.00 (94.70 to 95.70): VU031581.D (-1490) (-)

Ion 97.00 (96.70 to 97.70): VU031581.D (-1490) (-)

Ion 132.00 (131.70 to 132.70): VU031581.D (-1490) (-)

Ion 130.00 (129.70 to 130.70): VU031581.D (-1490) (-)



#46

Tetrachloroethene

Concen: 2.642 ug/L

RT: 8.23 min Scan# 2220

Delta R.T. 0.01 min

Lab File: VU031581.D

Acq: 29 Apr 2019 13:12

Tgt Ion: 164 Resp: 10757

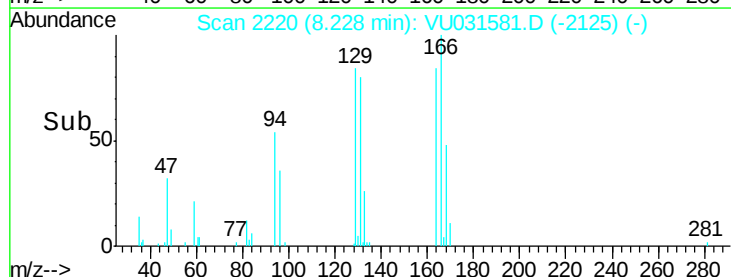
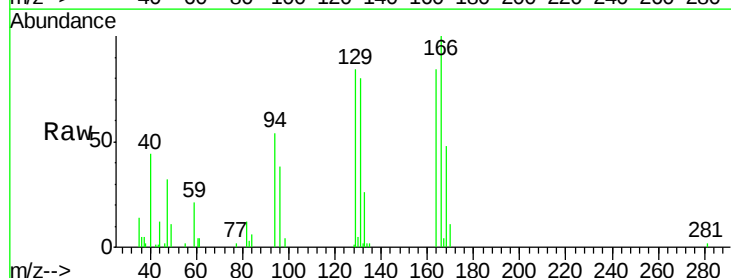
Ion Ratio Lower Upper

164 100

129 99.6 71.5 132.9

131 94.8 69.0 128.2

166 118.9 93.7 173.9



Abundance Ion 164.00 (163.70 to 164.70): VU031581.D (-2125) (-)

Ion 129.00 (128.70 to 129.70): VU031581.D (-2125) (-)

Ion 131.00 (130.70 to 131.70): VU031581.D (-2125) (-)

Ion 166.00 (165.70 to 166.70): VU031581.D (-2125) (-)

