

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041719\  
 Data File : VU031238.D  
 Acq On : 17 Apr 2019 03:15  
 Operator : JC/SP  
 Sample : K2428-08  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0XF7

Quant Time: Apr 17 06:02:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM041719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Apr 17 04:13:40 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 507234   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 483964   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 188822   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 180872   | 38.72    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 77.44% |
| 7) Chloroethane-d5             | 1.68    | 69    | 168075   | 41.44    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 82.88% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 288740   | 31.20    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 62.40% |
| 21) 2-Butanone-d5              | 4.19    | 46    | 290269   | 85.32    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 85.32% |
| 24) Chloroform-d               | 4.64    | 84    | 324397   | 41.62    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.24% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 213458   | 44.47    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.94% |
| 32) Benzene-d6                 | 5.34    | 84    | 653442   | 42.71    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.42% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 221882   | 44.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 89.36% |
| 41) Toluene-d8                 | 7.56    | 98    | 556968   | 41.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.74% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 96669    | 40.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 81.46% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 212781   | 90.78    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 90.78% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 301581   | 43.75    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 87.50% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 198742   | 45.89    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.78% |

## Target Compounds

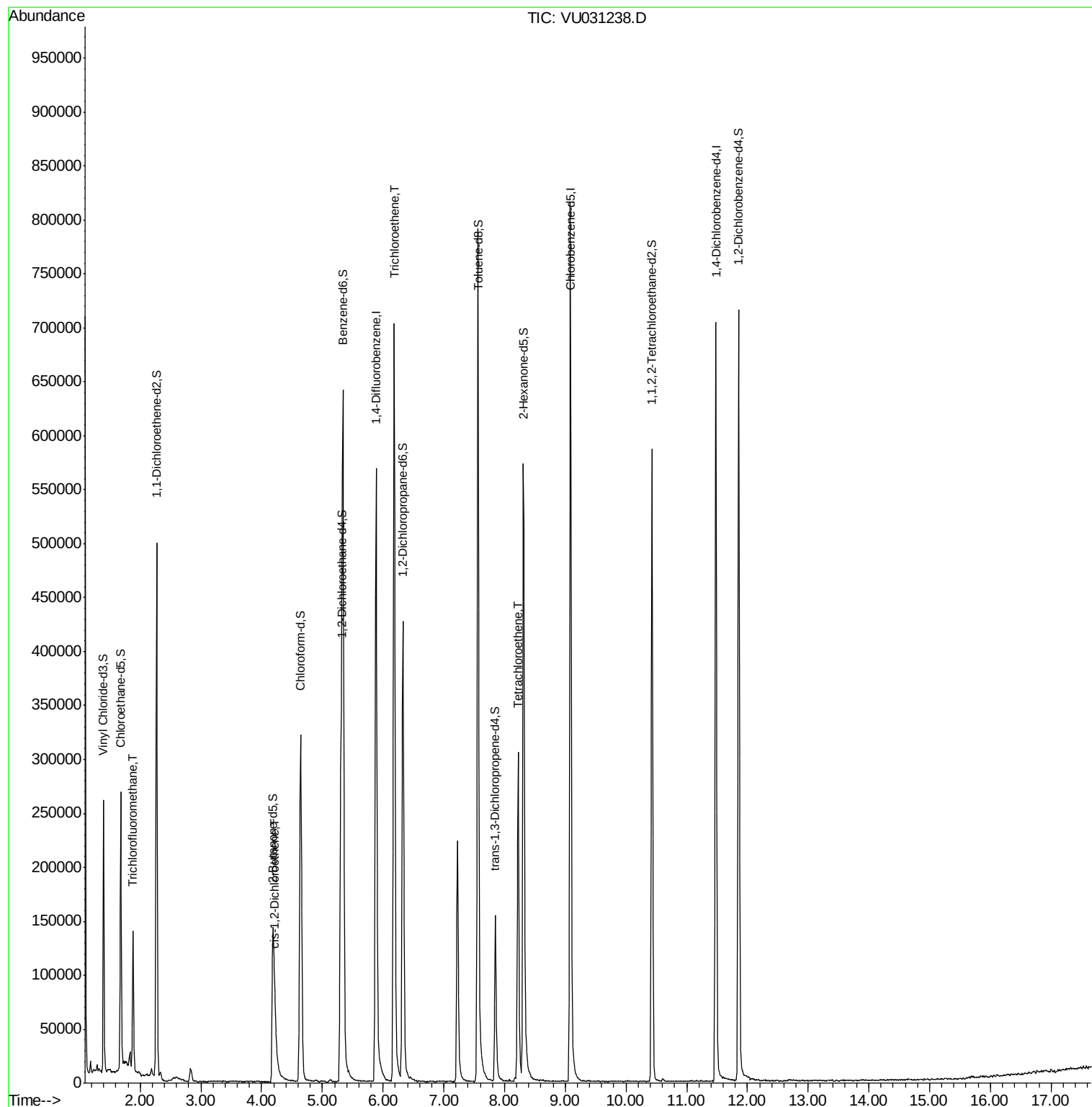
|                            |      |     |        |             | Ovalue |
|----------------------------|------|-----|--------|-------------|--------|
| 9) Trichlorofluoromethane  | 1.88 | 101 | 76814  | 9.941 ug/L  | 97     |
| 20) cis-1,2-Dichloroethene | 4.23 | 96  | 7460   | 1.775 ug/L  | 77     |
| 34) Trichloroethene        | 6.18 | 95  | 265030 | 65.072 ug/L | 98     |
| 46) Tetrachloroethene      | 8.22 | 164 | 73369  | 23.950 ug/L | 92     |

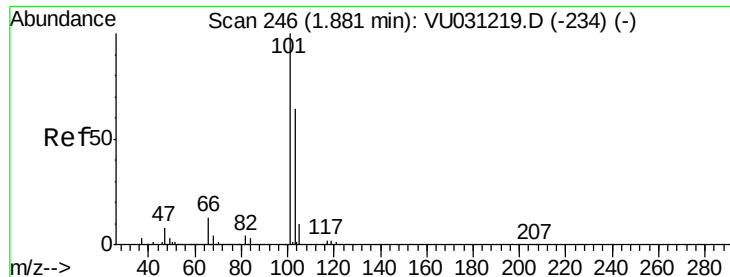
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#9

Trichlorofluoromethane

Concen: 9.941 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU031238.D

Acq: 17 Apr 2019 03:15

Instrument :

MSVOA\_U

ClientSampleId :

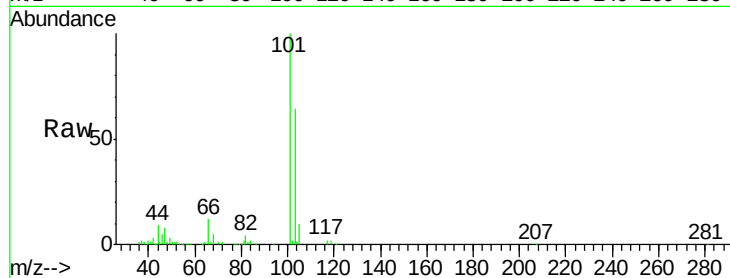
C0XF7

Tot Ion:101 Resp: 76814

Ion Ratio Lower Upper

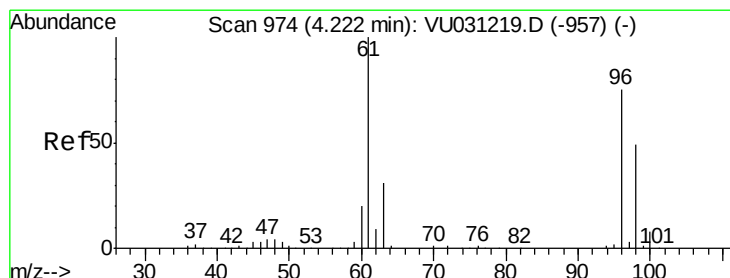
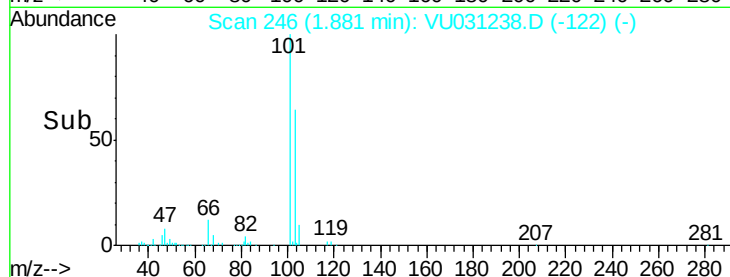
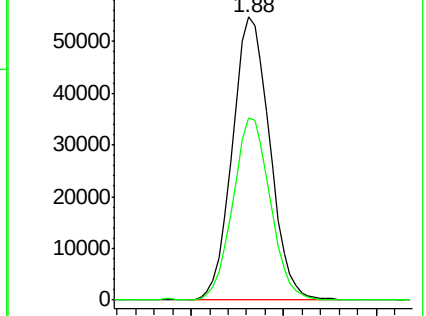
101 100

103 64.2 53.0 79.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#20

cis-1,2-Dichloroethene

Concen: 1.775 ug/L

RT: 4.23 min Scan# 976

Delta R.T. 0.01 min

Lab File: VU031238.D

Acq: 17 Apr 2019 03:15

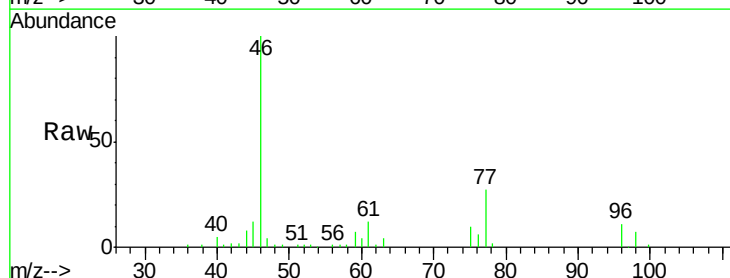
Tgt Ion: 96 Resp: 7460

Ion Ratio Lower Upper

96 100

61 112.6 98.2 182.4

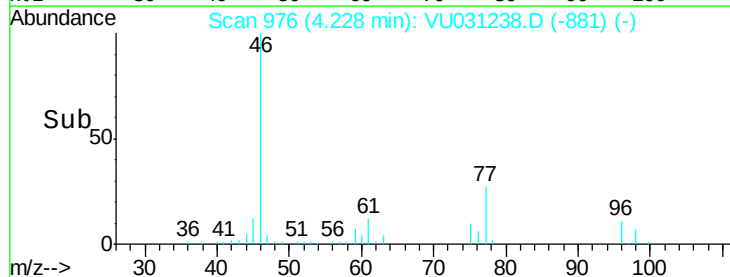
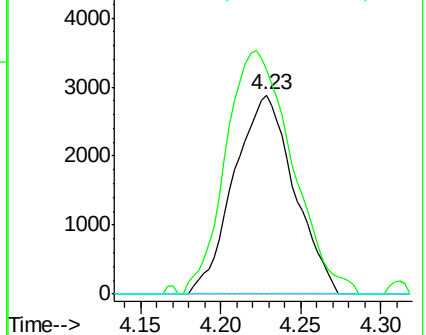
68 0.0 0.0 0.0

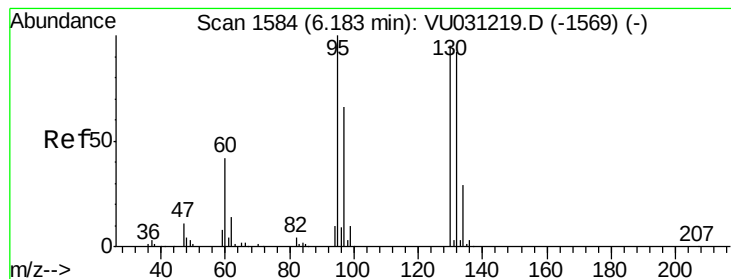


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#34

Trichloroethene

Concen: 65.072 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU031238.D

Acq: 17 Apr 2019 03:15

Instrument :

MSVOA\_U

ClientSampleId :

C0XF7

Tot Ion: 95 Resp: 265030

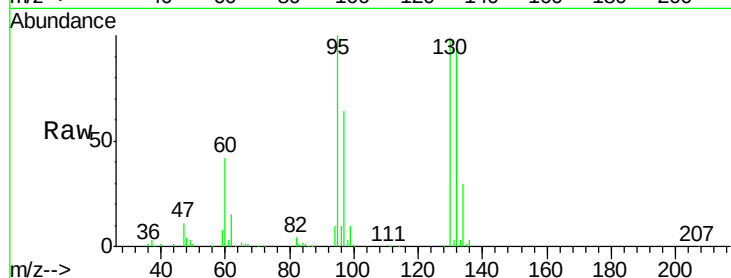
Ion Ratio Lower Upper

95 100

97 64.1 43.6 81.0

132 94.3 64.5 119.7

130 98.7 68.0 126.2



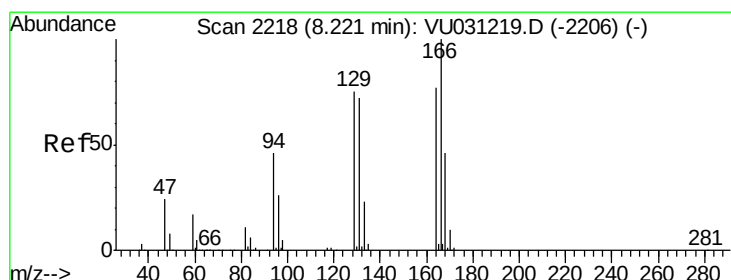
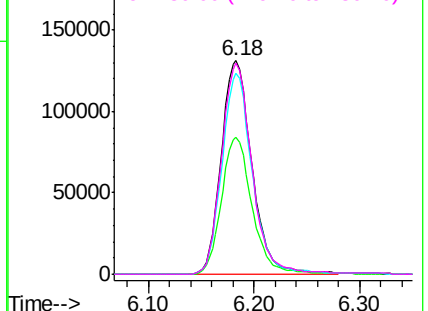
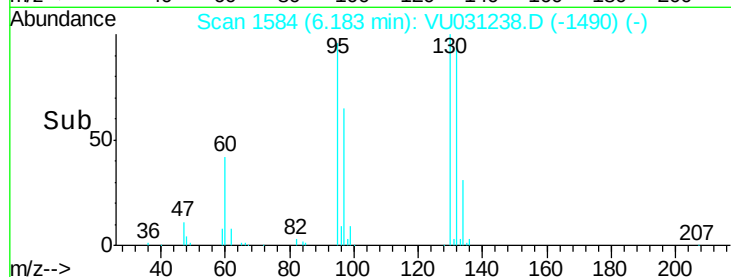
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#46

Tetrachloroethene

Concen: 23.950 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VU031238.D

Acq: 17 Apr 2019 03:15

Tgt Ion: 164 Resp: 73369

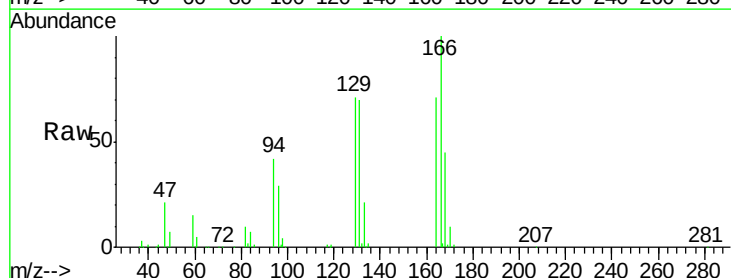
Ion Ratio Lower Upper

164 100

129 99.5 66.5 123.5

131 97.7 62.3 115.7

166 139.9 90.6 168.3



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

