

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080719\  
 Data File : VU033621.D  
 Acq On : 07 Aug 2019 16:54  
 Operator : JC/SP  
 Sample : K4202-05 20X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F2B22

Quant Time: Aug 08 04:00:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 08 03:14:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 306099   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 308319   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 143054   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 94540    | 48.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.66%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 94014    | 43.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.24%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 124533   | 32.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.76%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 184772   | 116.59   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 116.59% |
| 24) Chloroform-d               | 4.62    | 84    | 180307   | 48.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.84%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 122017   | 51.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.92% |
| 32) Benzene-d6                 | 5.32    | 84    | 348586   | 46.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.46%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 117817   | 48.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.64%  |
| 41) Toluene-d8                 | 7.55    | 98    | 300560   | 42.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 85.68%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 52664    | 43.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.76%  |
| 47) 2-Hexanone-d5              | 8.30    | 63    | 126523   | 107.20   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 107.20% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 191510   | 51.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 103.70% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 132252   | 51.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.96% |

## Target Compounds

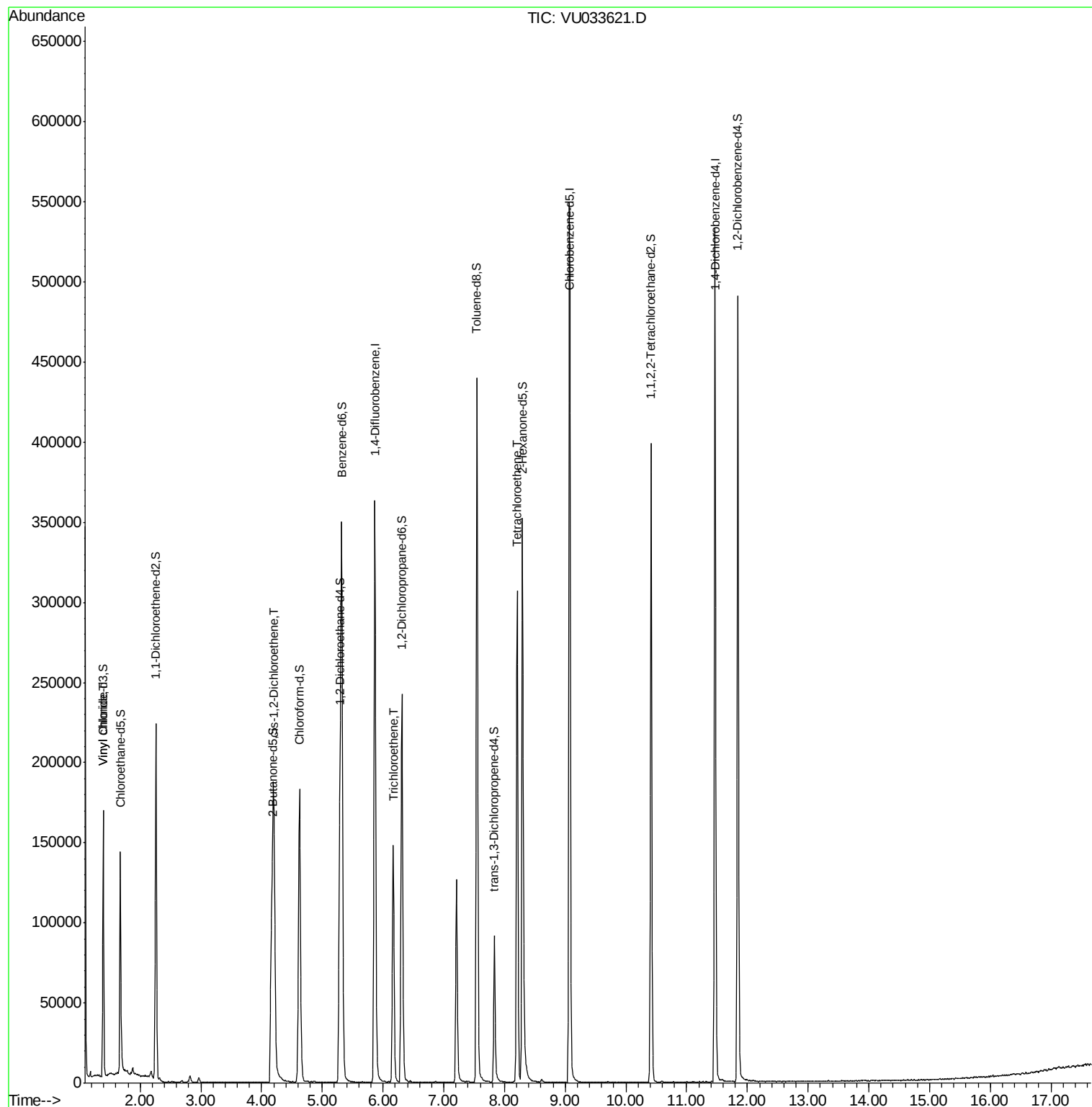
|                            |      |     |       |             | Ovalue |
|----------------------------|------|-----|-------|-------------|--------|
| 5) Vinyl chloride          | 1.40 | 62  | 22240 | 7.165 ug/L  | 92     |
| 20) cis-1,2-Dichloroethene | 4.20 | 96  | 85916 | 36.520 ug/L | 99     |
| 34) Trichloroethene        | 6.17 | 95  | 50556 | 21.385 ug/L | 96     |
| 46) Tetrachloroethene      | 8.21 | 164 | 68250 | 35.188 ug/L | 97     |

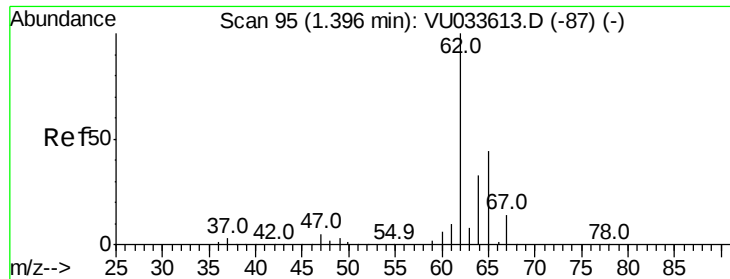
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU080719\  
Data File : VU033621.D  
Acq On : 07 Aug 2019 16:54  
Operator : JC/SP  
Sample : K4202-05 20X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B22

Quant Time: Aug 08 04:00:39 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Aug 08 03:14:38 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 7.165 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033621.D

Acq: 07 Aug 2019 16:54

Instrument :

MSVOA\_U

ClientSampleId :

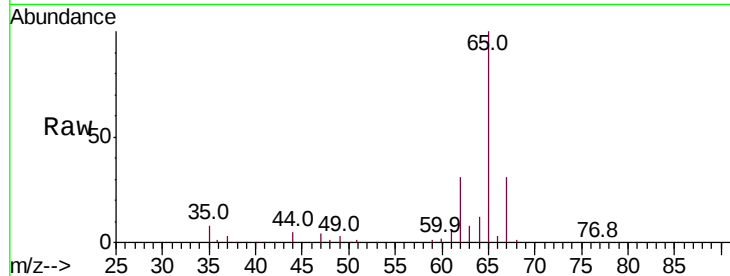
F2B22

Tot Ion: 62 Resp: 22240

Ion Ratio Lower Upper

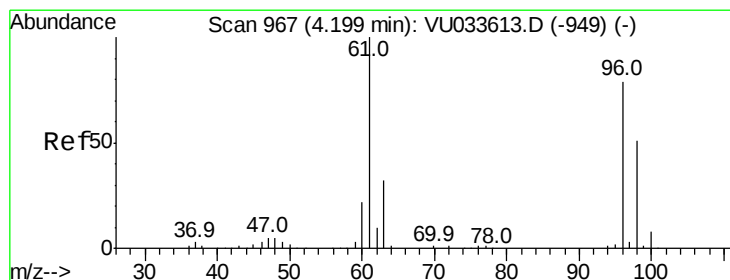
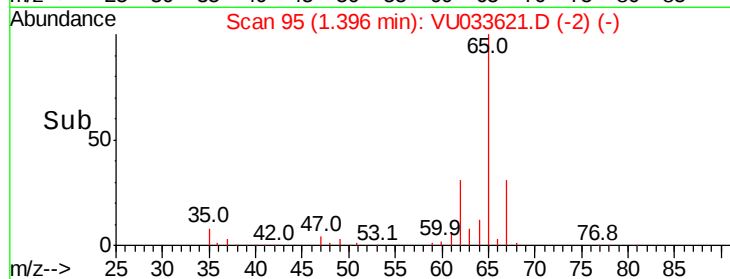
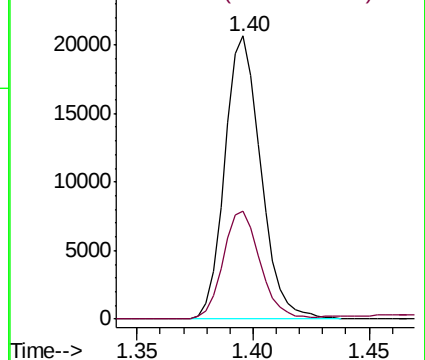
62 100

64 38.4 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 36.520 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033621.D

Acq: 07 Aug 2019 16:54

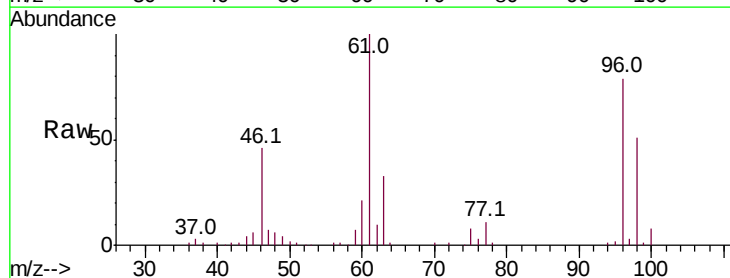
Tgt Ion: 96 Resp: 85916

Ion Ratio Lower Upper

96 100

61 127.1 88.2 163.8

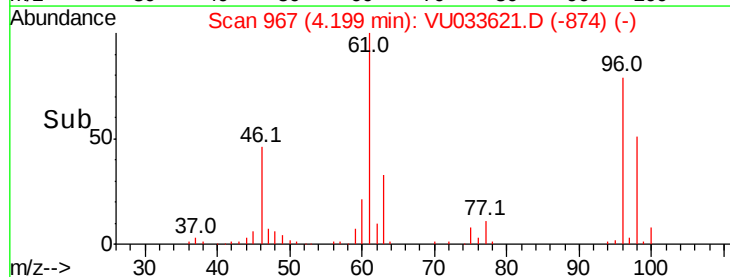
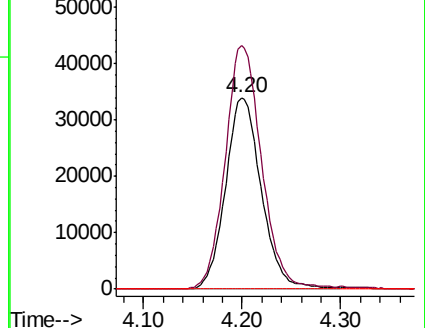
68 0.0 0.0 0.0

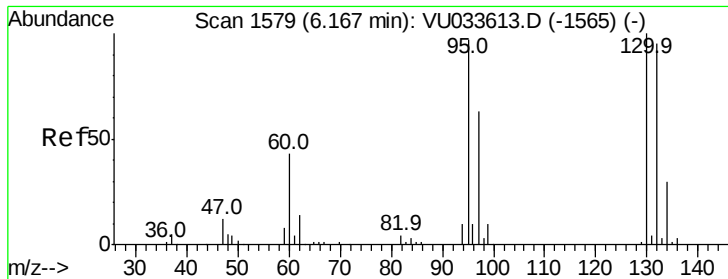


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0

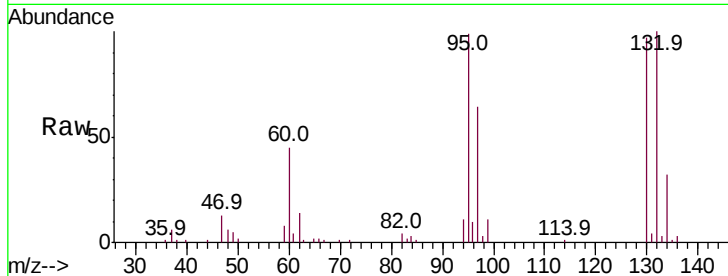




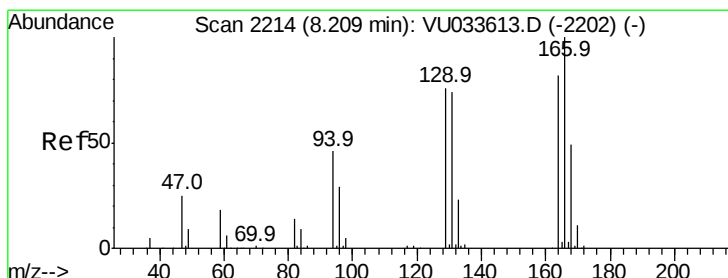
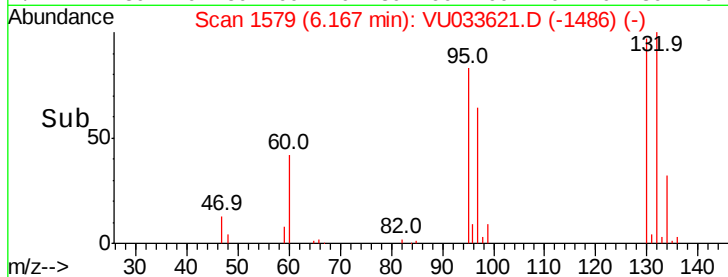
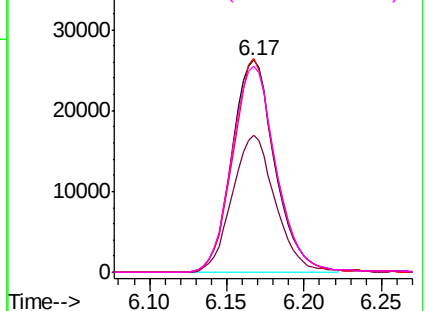
#34  
 Trichloroethene  
 Concen: 21.385 ug/L  
 RT: 6.17 min Scan# 1579  
 Delta R.T. 0.00 min  
 Lab File: VU033621.D  
 Acq: 07 Aug 2019 16:54

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F2B22

Tot Ion: 95 Resp: 50556  
 Ion Ratio Lower Upper  
 95 100  
 97 64.5 43.8 81.4  
 132 100.6 68.6 127.4  
 130 97.2 72.2 134.2



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: 35.188 ug/L  
 RT: 8.21 min Scan# 2214  
 Delta R.T. 0.00 min  
 Lab File: VU033621.D  
 Acq: 07 Aug 2019 16:54

Tgt Ion: 164 Resp: 68250  
 Ion Ratio Lower Upper  
 164 100  
 129 96.3 64.1 119.1  
 131 90.6 62.9 116.7  
 166 126.5 90.5 168.1

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

