

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062219\  
 Data File : VU032984.D  
 Acq On : 22 Jun 2019 07:21  
 Operator : JC/SP  
 Sample : K3478-06  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETF22

Quant Time: Jun 24 02:33:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jun 24 02:01:10 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 190074   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 186738   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 88182    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 50571    | 38.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 77.86%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 45766    | 44.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 88.36%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 83335    | 31.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 63.70%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 125178   | 115.78   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 115.78% |
| 24) Chloroform-d               | 4.64    | 84    | 120730   | 47.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.62%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 87136    | 51.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.60% |
| 32) Benzene-d6                 | 5.33    | 84    | 229509   | 47.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.30%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 76033    | 49.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.06%  |
| 41) Toluene-d8                 | 7.56    | 98    | 201654   | 44.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.48%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 34154    | 42.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 84.68%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 73401    | 101.37   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 101.37% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.42   | 84    | 115892   | 48.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.68%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 84630    | 49.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.18%  |

## Target Compounds

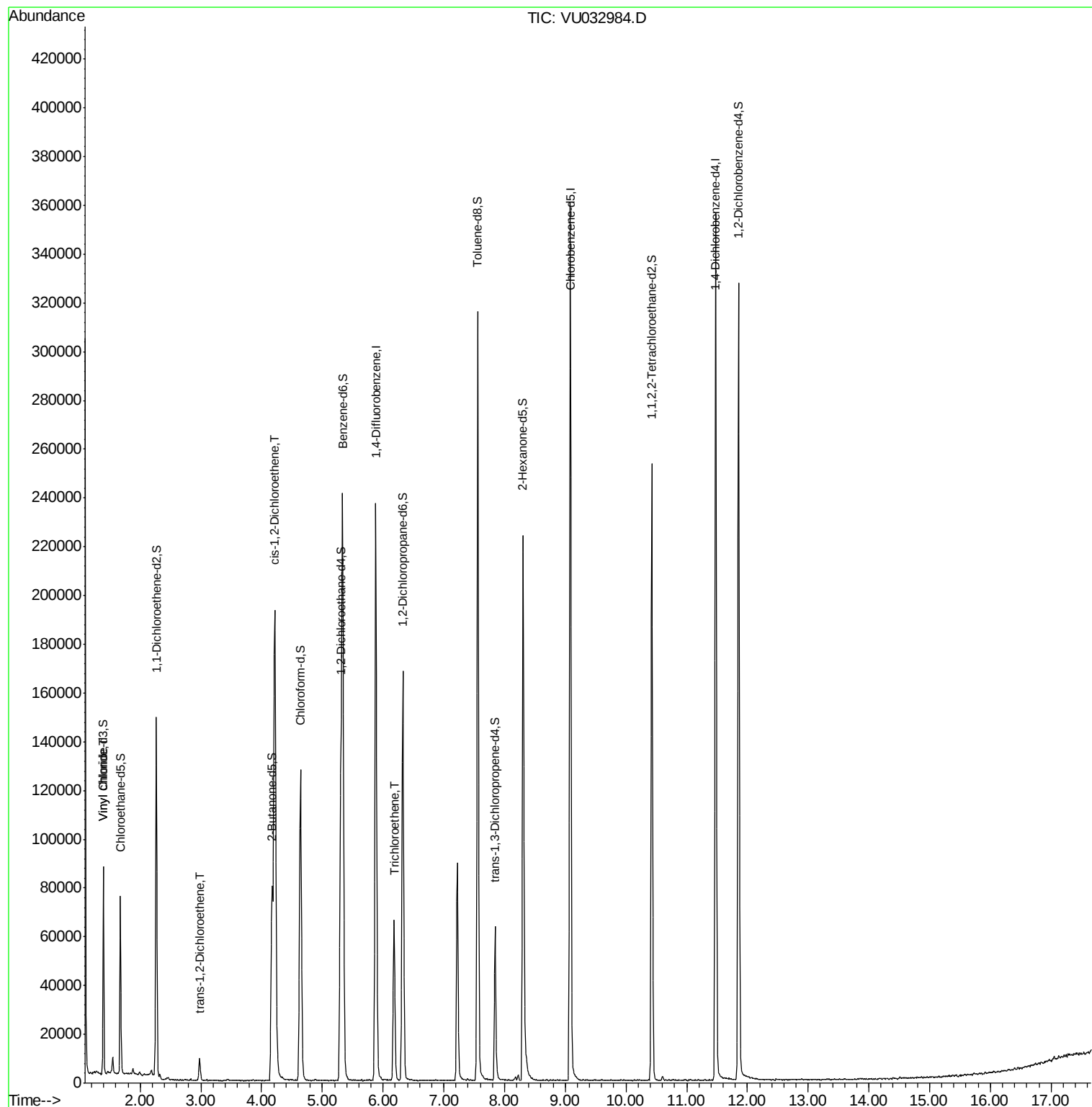
|                              |      |    |        |             | Ovalue |
|------------------------------|------|----|--------|-------------|--------|
| 5) Vinyl chloride            | 1.40 | 62 | 3561   | 2.063 ug/L  | # 71   |
| 17) trans-1,2-Dichloroethene | 2.98 | 96 | 3794   | 2.923 ug/L  | 92     |
| 20) cis-1,2-Dichloroethene   | 4.22 | 96 | 100091 | 70.784 ug/L | 94     |
| 34) Trichloroethene          | 6.18 | 95 | 21530  | 14.979 ug/L | 99     |

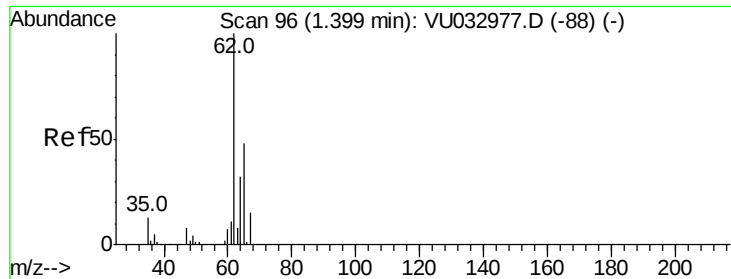
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.063 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032984.D

Acq: 22 Jun 2019 07:21

Instrument :

MSVOA\_U

ClientSampleId :

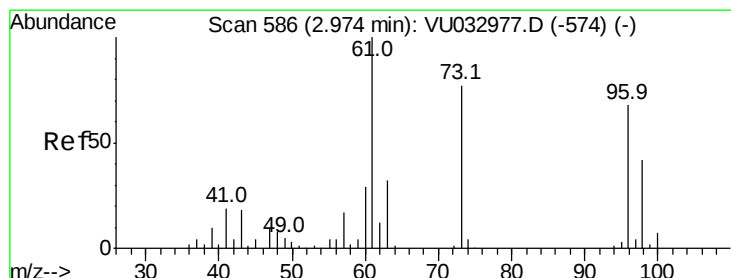
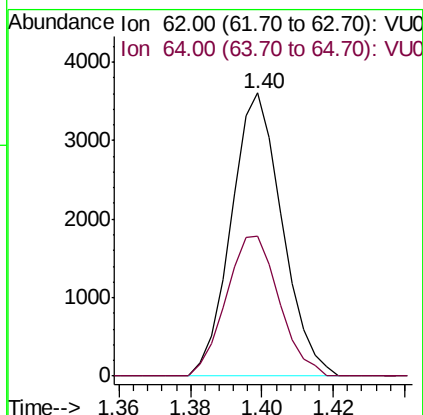
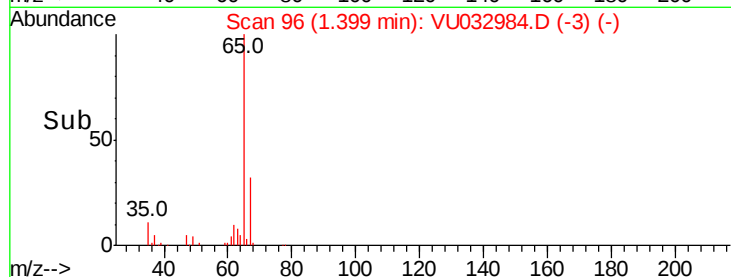
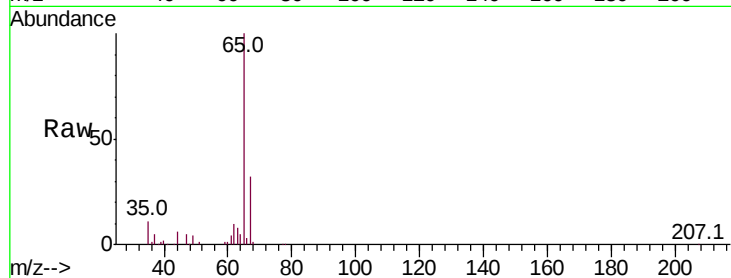
ETF22

Tot Ion: 62 Resp: 3561

Ion Ratio Lower Upper

62 100

64 49.4 23.0 42.6#



#17

trans-1,2-Dichloroethene

Concen: 2.923 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.01 min

Lab File: VU032984.D

Acq: 22 Jun 2019 07:21

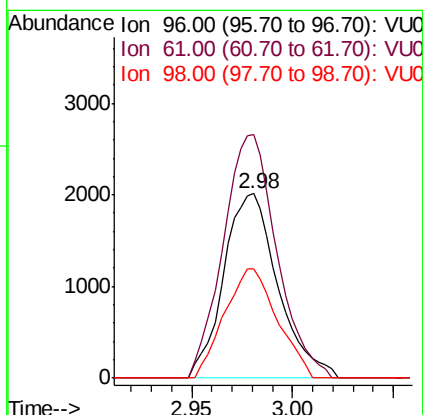
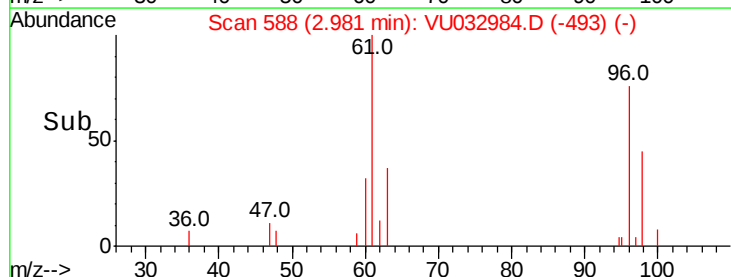
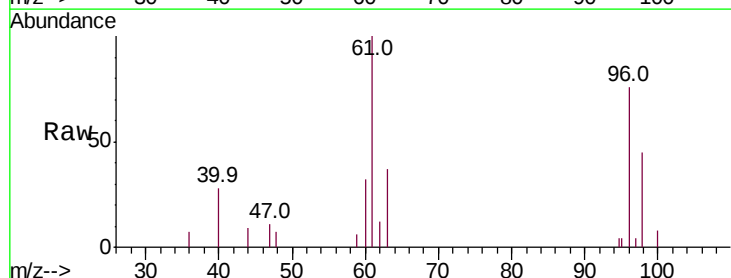
Tgt Ion: 96 Resp: 3794

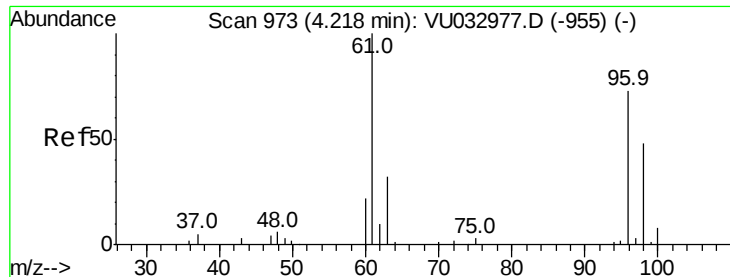
Ion Ratio Lower Upper

96 100

61 131.9 100.9 187.5

98 59.0 44.0 81.8

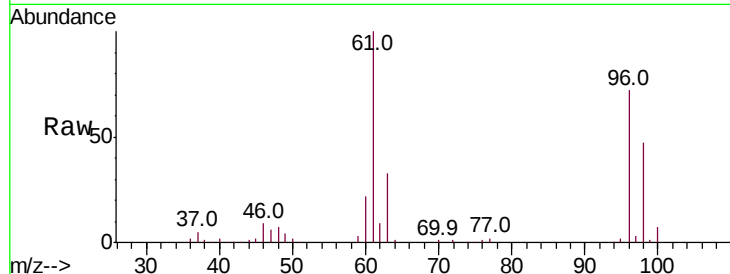




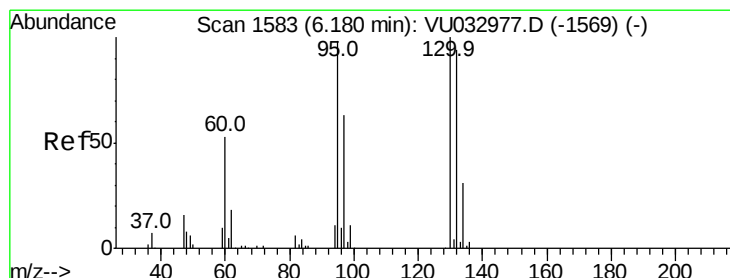
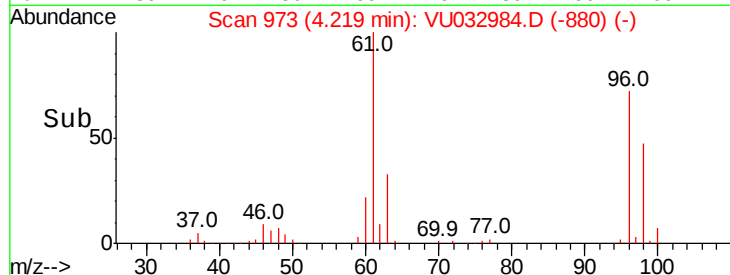
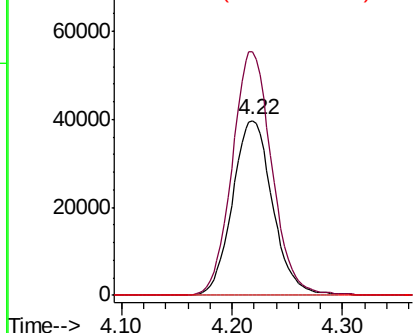
#20  
 cis-1,2-Dichloroethene  
 Concen: 70.784 ug/L  
 RT: 4.22 min Scan# 973  
 Delta R.T. 0.00 min  
 Lab File: VU032984.D  
 Acq: 22 Jun 2019 07:21

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETF22

Tot Ion: 96 Resp: 100091  
 Ion Ratio Lower Upper  
 96 100  
 61 139.1 92.4 171.6  
 68 0.0 0.0 0.0

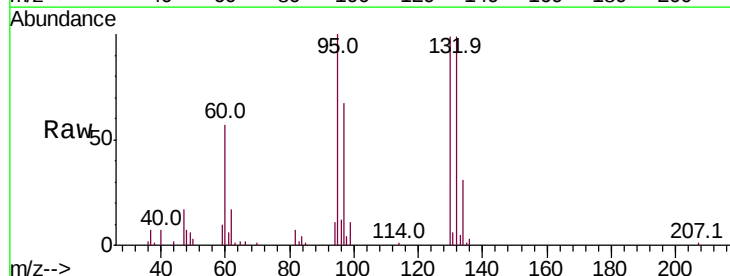


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.00 (60.70 to 61.70): VU0  
 Ion 68.00 (67.70 to 68.70): VU0



#34  
 Trichloroethene  
 Concen: 14.979 ug/L  
 RT: 6.18 min Scan# 1583  
 Delta R.T. 0.00 min  
 Lab File: VU032984.D  
 Acq: 22 Jun 2019 07:21

Tgt Ion: 95 Resp: 21530  
 Ion Ratio Lower Upper  
 95 100  
 97 66.9 45.9 85.3  
 132 98.8 68.5 127.3  
 130 99.4 70.8 131.4



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

