

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040719\  
 Data File : VU030833.D  
 Acq On : 07 Apr 2019 04:10  
 Operator : JC/SP  
 Sample : K2277-17 50X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF1C6

Quant Time: Apr 08 08:55:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Apr 08 07:03:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 464307   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 462810   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 189920   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 211216   | 50.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 101.92% |
| 7) Chloroethane-d5             | 1.68    | 69    | 165522   | 52.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 105.24% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 302719   | 40.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.76%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 346858   | 105.59   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.59% |
| 24) Chloroform-d               | 4.64    | 84    | 311709   | 49.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.46%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 223014   | 51.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.24% |
| 32) Benzene-d6                 | 5.34    | 84    | 658612   | 48.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.50%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 231796   | 50.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.12% |
| 41) Toluene-d8                 | 7.56    | 98    | 556920   | 46.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.00%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 93984    | 44.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.02%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 205054   | 96.90    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 96.90%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 295622   | 47.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.66%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 187026   | 50.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.14% |

## Target Compounds

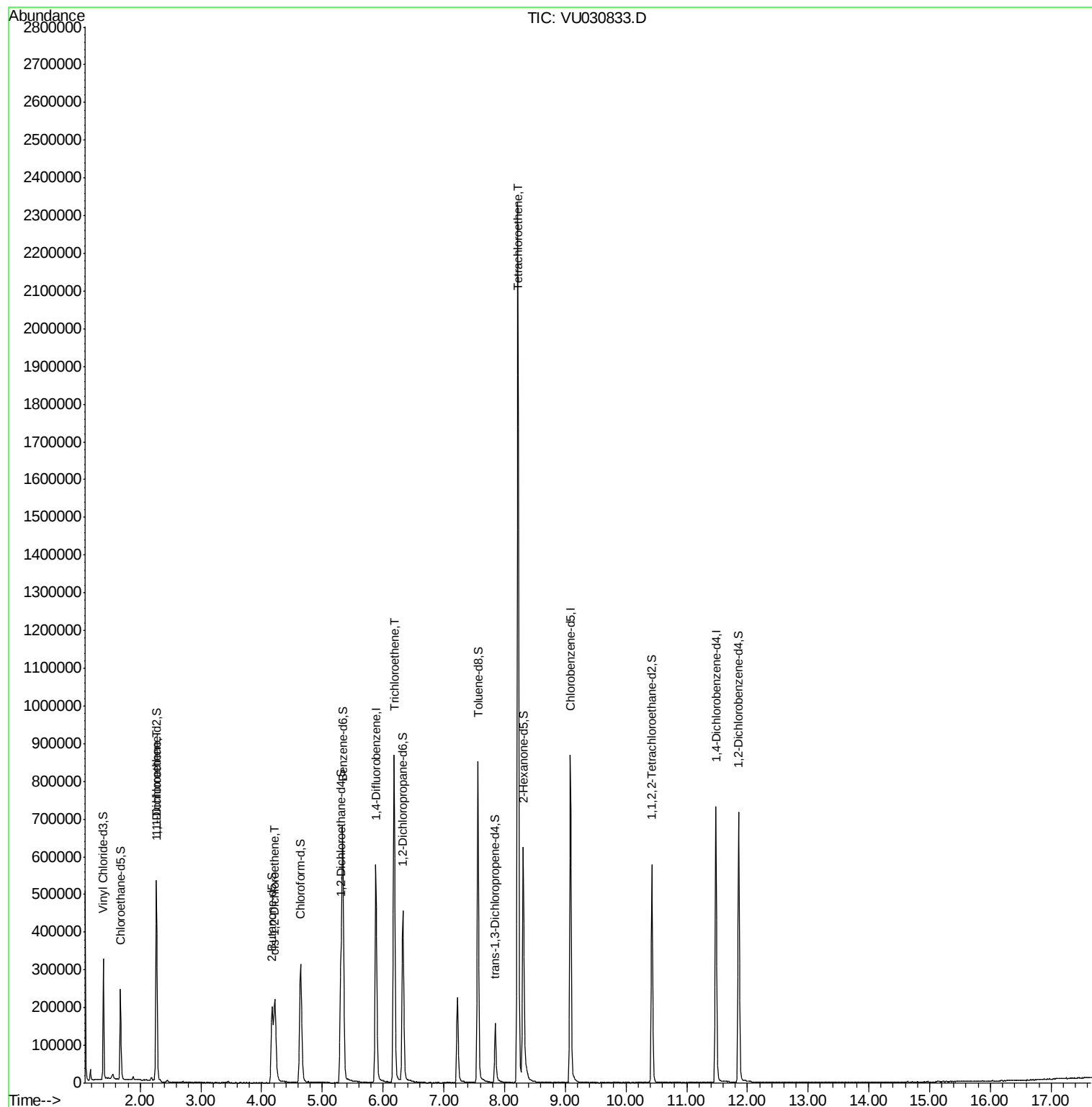
|                            |      |     |        |              | Ovalue |
|----------------------------|------|-----|--------|--------------|--------|
| 12) 1,1-Dichloroethene     | 2.28 | 96  | 26551  | 8.273 ug/L   | # 1    |
| 20) cis-1,2-Dichloroethene | 4.22 | 96  | 108387 | 28.805 ug/L  | 99     |
| 34) Trichloroethene        | 6.18 | 95  | 324011 | 87.226 ug/L  | 99     |
| 46) Tetrachloroethene      | 8.22 | 164 | 501144 | 185.565 ug/L | 97     |

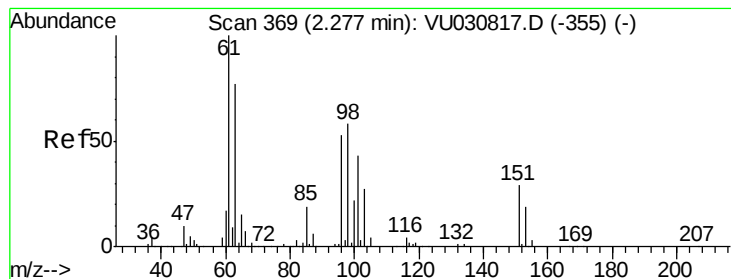
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Apr 08 07:03:53 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 8.273 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU030833.D

Acq: 07 Apr 2019 04:10

Instrument :

MSVOA\_U

ClientSampleId :

BF1C6

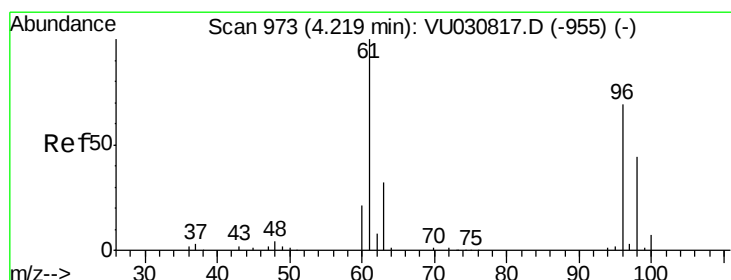
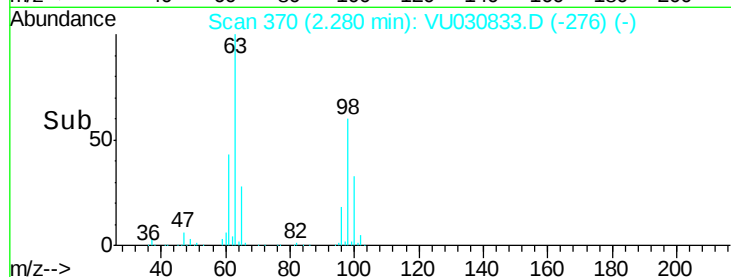
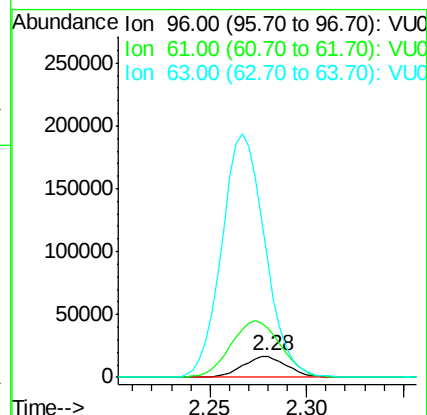
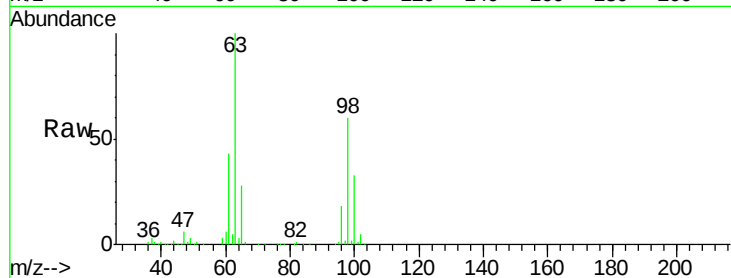
Tot Ion: 96 Resp: 26551

Ion Ratio Lower Upper

96 100

61 236.3 132.0 245.2

63 552.3 90.9 168.9#



#20

cis-1,2-Dichloroethene

Concen: 28.805 ug/L

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU030833.D

Acq: 07 Apr 2019 04:10

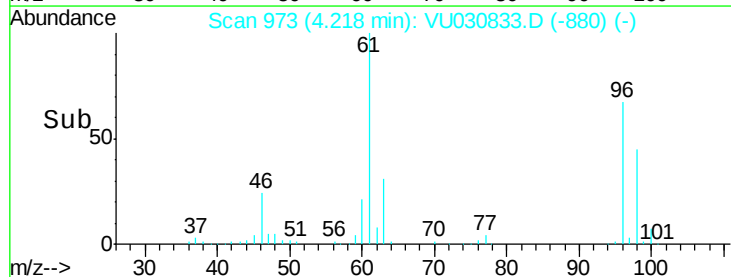
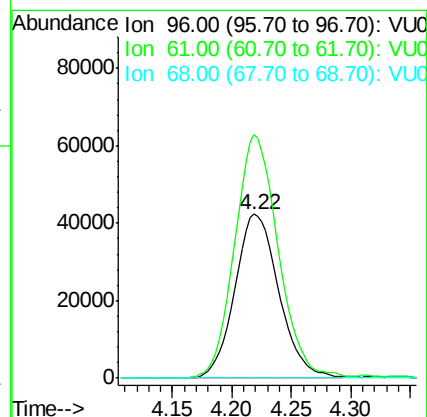
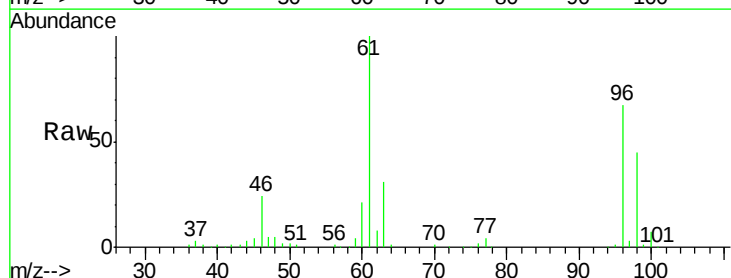
Tgt Ion: 96 Resp: 108387

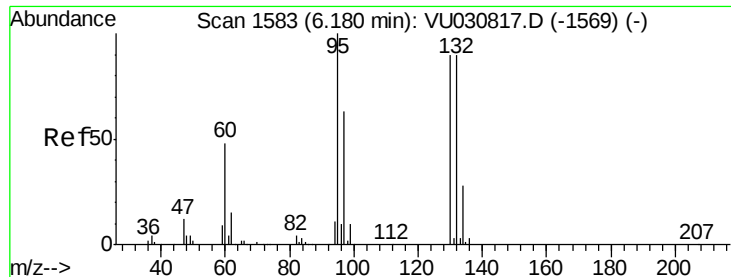
Ion Ratio Lower Upper

96 100

61 148.8 102.9 191.1

68 0.0 0.0 0.0

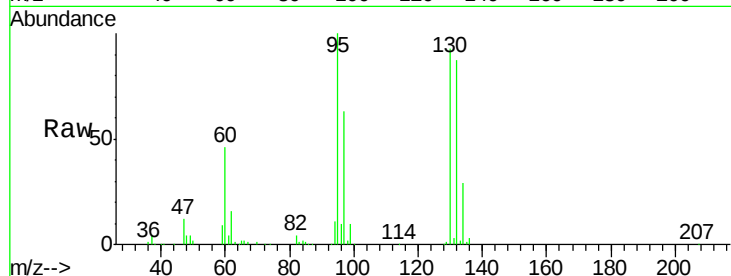




#34  
 Trichloroethene  
 Concen: 87.226 ug/L  
 RT: 6.18 min Scan# 1583  
 Delta R.T. -0.00 min  
 Lab File: VU030833.D  
 Acq: 07 Apr 2019 04:10

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF1C6

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 324011 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 63.0  | 44.5  | 82.7   |
| 132      | 86.9  | 61.5  | 114.1  |
| 130      | 93.0  | 64.9  | 120.5  |



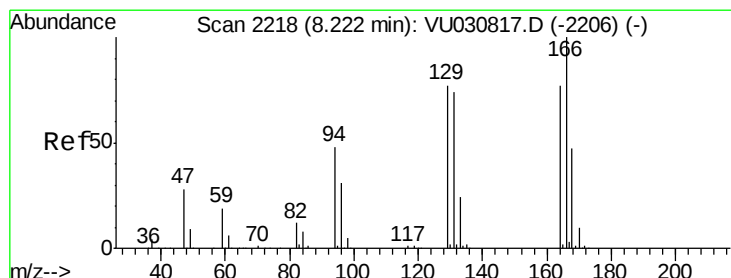
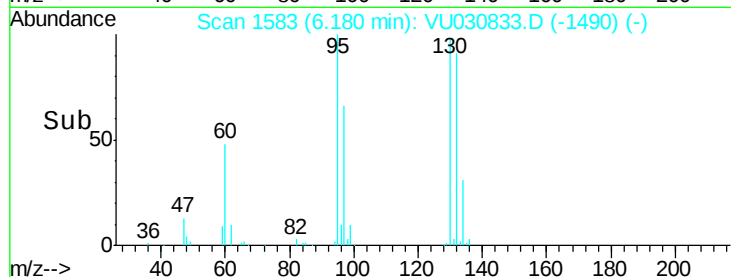
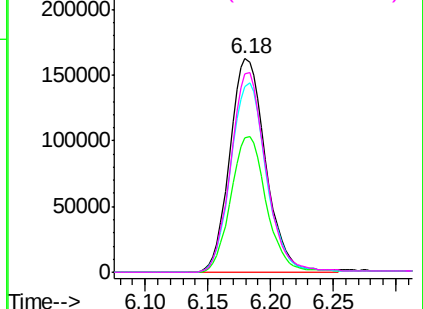
Abundance

Ion 95.00 (94.70 to 95.70): VU030833.D (-1490) (-)

Ion 97.00 (96.70 to 97.70): VU030833.D (-1490) (-)

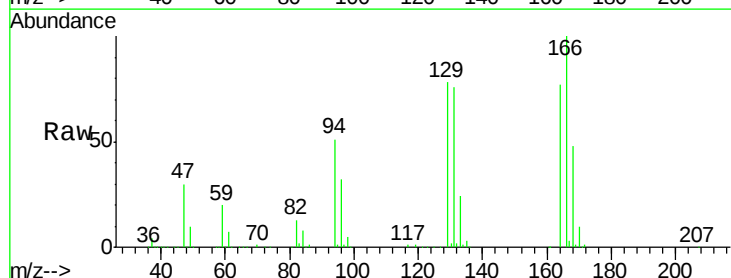
Ion 132.00 (131.70 to 132.70): VU030833.D (-1490) (-)

Ion 130.00 (129.70 to 130.70): VU030833.D (-1490) (-)



#46  
 Tetrachloroethene  
 Concen: 185.565 ug/L  
 RT: 8.22 min Scan# 2218  
 Delta R.T. -0.00 min  
 Lab File: VU030833.D  
 Acq: 07 Apr 2019 04:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 501144 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 100.5 | 67.4  | 125.2  |
| 131      | 98.2  | 65.9  | 122.5  |
| 166      | 129.2 | 88.6  | 164.6  |



Abundance

Ion 164.00 (163.70 to 164.70): VU030833.D (-2125) (-)

Ion 129.00 (128.70 to 129.70): VU030833.D (-2125) (-)

Ion 131.00 (130.70 to 131.70): VU030833.D (-2125) (-)

Ion 166.00 (165.70 to 166.70): VU030833.D (-2125) (-)

