

Data File : VU030804.D  
Acq On : 06 Apr 2019 16:40  
Operator : JC/SP  
Sample : K2215-07ME  
Misc : 5.59g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF2M8ME

Quant Time: Apr 08 05:05:56 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Apr 08 05:01:06 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 509032   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 498621   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 228997   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 153379   | 33.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 67.50%  |
| 7) Chloroethane-d5             | 1.64    | 69    | 115038   | 33.36    | ug/L | -0.04   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 66.72%# |
| 11) 1,1-Dichloroethene-d2      | 2.23    | 63    | 247379   | 30.10    | ug/L | -0.04   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 60.20%  |
| 21) 2-Butanone-d5              | 4.19    | 46    | 303045   | 84.15    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 84.15%  |
| 24) Chloroform-d               | 4.64    | 84    | 273016   | 39.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 78.66%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 198781   | 41.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.94%  |
| 32) Benzene-d6                 | 5.33    | 84    | 580572   | 39.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 79.76%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 206695   | 41.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 82.86%  |
| 41) Toluene-d8                 | 7.56    | 98    | 500351   | 38.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 77.56%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 89792    | 39.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.94%  |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 217495   | 95.39    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 95.39%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 300201   | 44.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.22%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 194550   | 43.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.40%  |

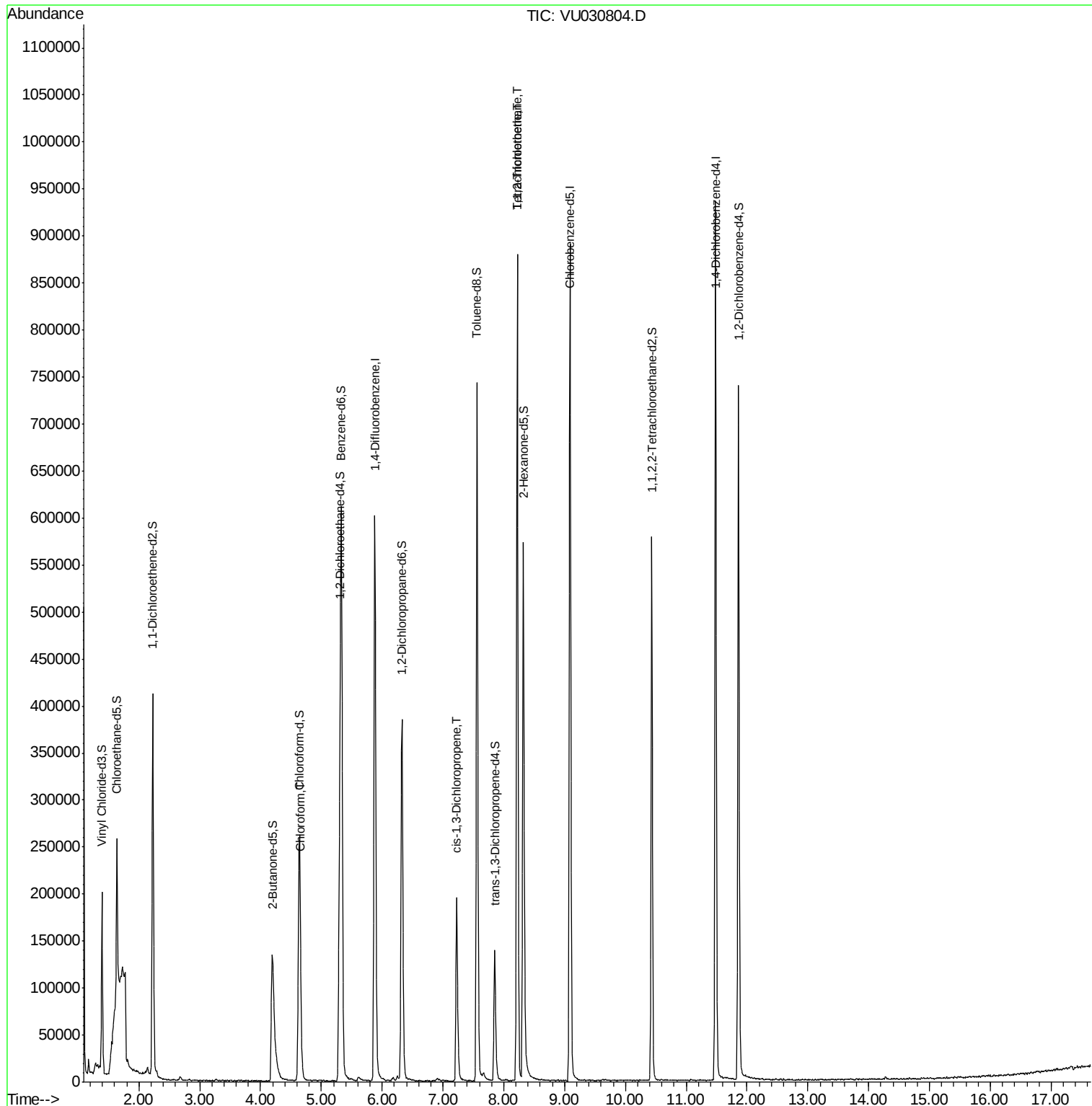
| Target Compounds            |      |     |        |              | Qvalue |
|-----------------------------|------|-----|--------|--------------|--------|
| 25) Chloroform              | 4.66 | 83  | 12720  | 1.641 ug/L   | 93     |
| 39) cis-1,3-Dichloropropene | 7.22 | 75  | 4880   | 0.742 ug/L # | 63     |
| 45) 1,1,2-Trichloroethane   | 8.22 | 97  | 1655   | 0.422 ug/L # | 1      |
| 46) Tetrachloroethene       | 8.22 | 164 | 192877 | 66.290 ug/L  | 98     |

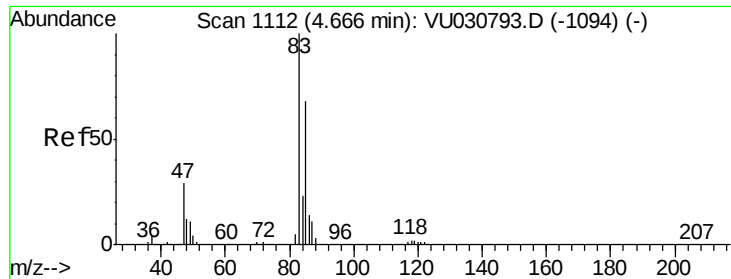
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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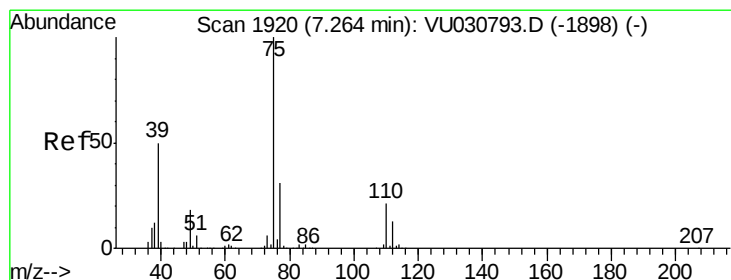
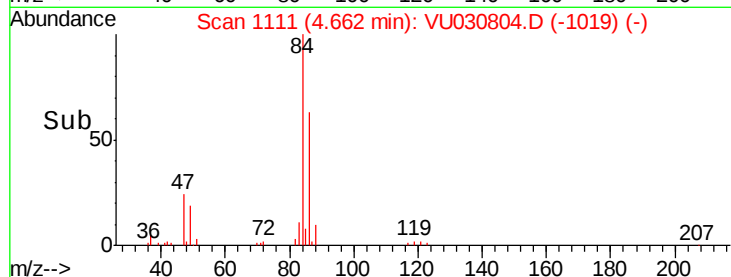
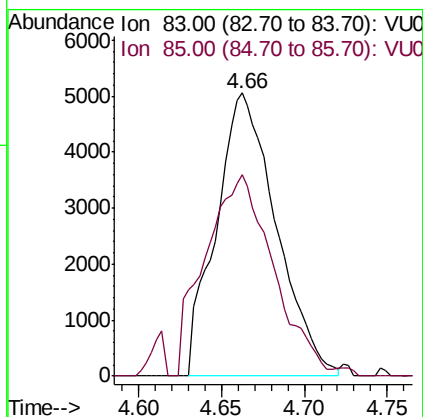
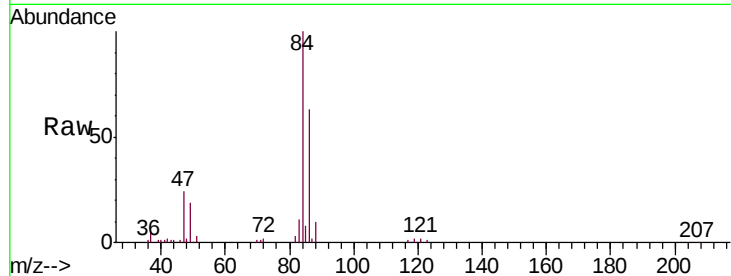




#25  
Chloroform  
Concen: 1.641 ug/L  
RT: 4.66 min Scan# 1111  
Delta R.T. -0.00 min  
Lab File: VU030804.D  
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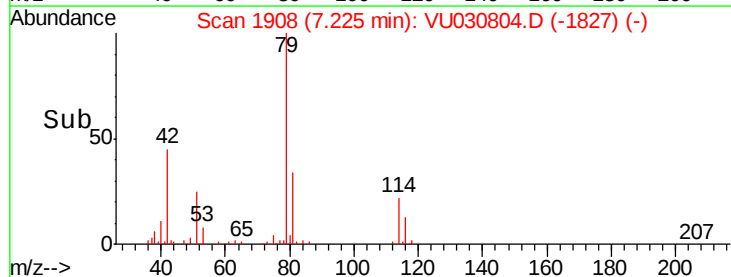
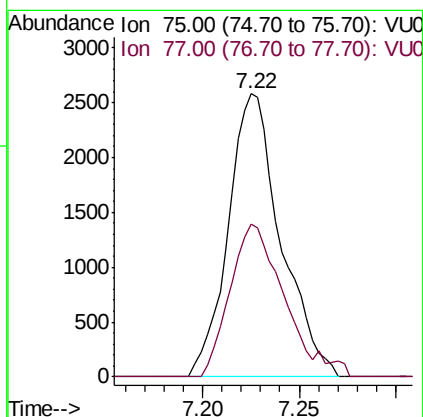
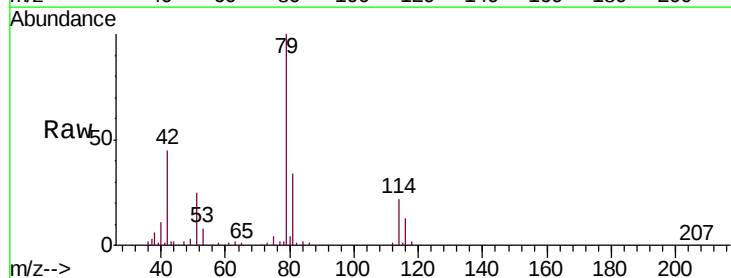
Instrument :  
MSVOA\_U  
ClientSampleId :  
BF2M8ME

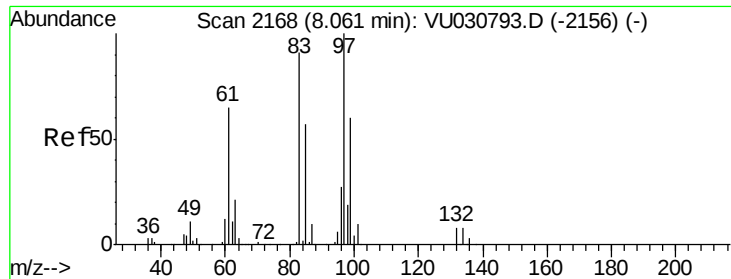
Tgt Ion: 83 Resp: 12720  
Ion Ratio Lower Upper  
83 100  
85 71.1 45.8 85.0



#39  
cis-1,3-Dichloropropene  
Concen: 0.742 ug/L  
RT: 7.22 min Scan# 1908  
Delta R.T. -0.04 min  
Lab File: VU030804.D  
Acq: 06 Apr 2019 16:40

Tgt Ion: 75 Resp: 4880  
Ion Ratio Lower Upper  
75 100  
77 54.0 23.1 42.9#

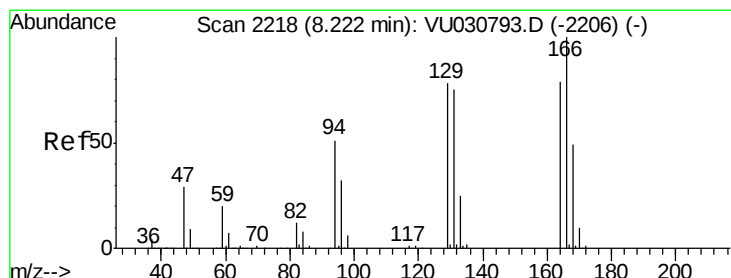
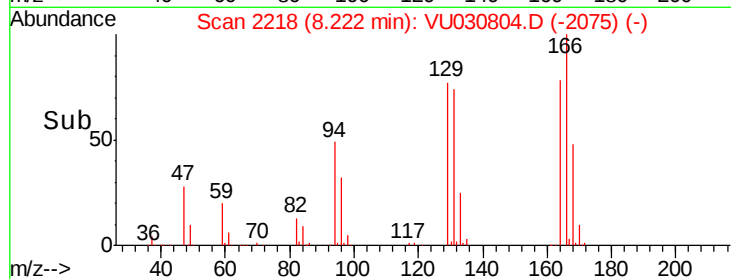
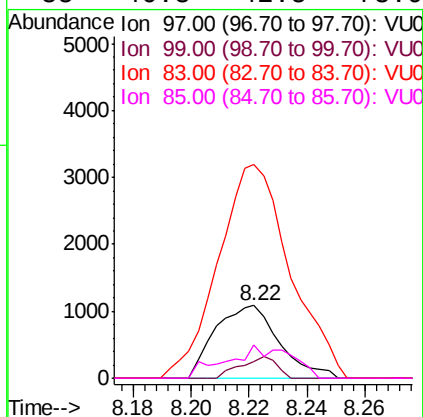
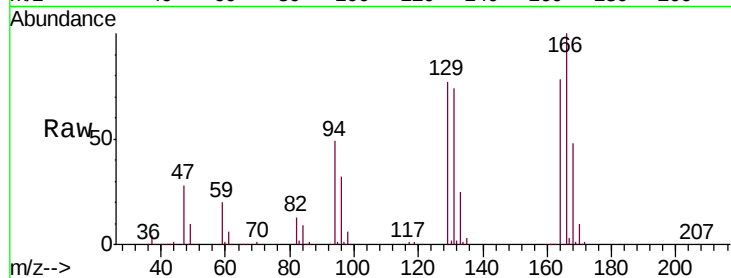




#45  
 1,1,2-Trichloroethane  
 Concen: 0.422 ug/L  
 RT: 8.22 min Scan# 2218  
 Delta R.T. 0.16 min  
 Lab File: VU030804.D  
 Acq: 06 Apr 2019 16:40

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF2M8ME

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 1655   |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 23.9  | 44.0  | 81.8#  |
| 83       | 295.2 | 65.3  | 121.3# |
| 85       | 46.8  | 42.5  | 78.9   |



#46  
 Tetrachloroethene  
 Concen: 66.290 ug/L  
 RT: 8.22 min Scan# 2218  
 Delta R.T. 0.00 min  
 Lab File: VU030804.D  
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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 192877 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 99.0  | 67.4  | 125.2  |
| 131      | 95.6  | 65.9  | 122.5  |
| 166      | 128.5 | 88.6  | 164.6  |

