

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU080719\  
 Data File : VU033625.D  
 Acq On : 07 Aug 2019 18:26  
 Operator : JC/SP  
 Sample : K4202-08 20X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F2B25

Quant Time: Aug 08 03:18:35 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  | 302422   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 309080   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 140336   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 90157    | 46.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 93.30%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 85608    | 39.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 79.48%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 122609   | 32.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.52%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 187142   | 119.52   | ug/L | -0.02   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 119.52% |
| 24) Chloroform-d               | 4.62    | 84    | 176387   | 47.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.88%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 120734   | 52.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.08% |
| 32) Benzene-d6                 | 5.32    | 84    | 343418   | 45.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.86%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 118584   | 49.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.04%  |
| 41) Toluene-d8                 | 7.55    | 98    | 295631   | 42.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 84.06%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 52637    | 43.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.50%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 127851   | 108.06   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 108.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 197120   | 53.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.48% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 131974   | 52.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.74% |

## Target Compounds

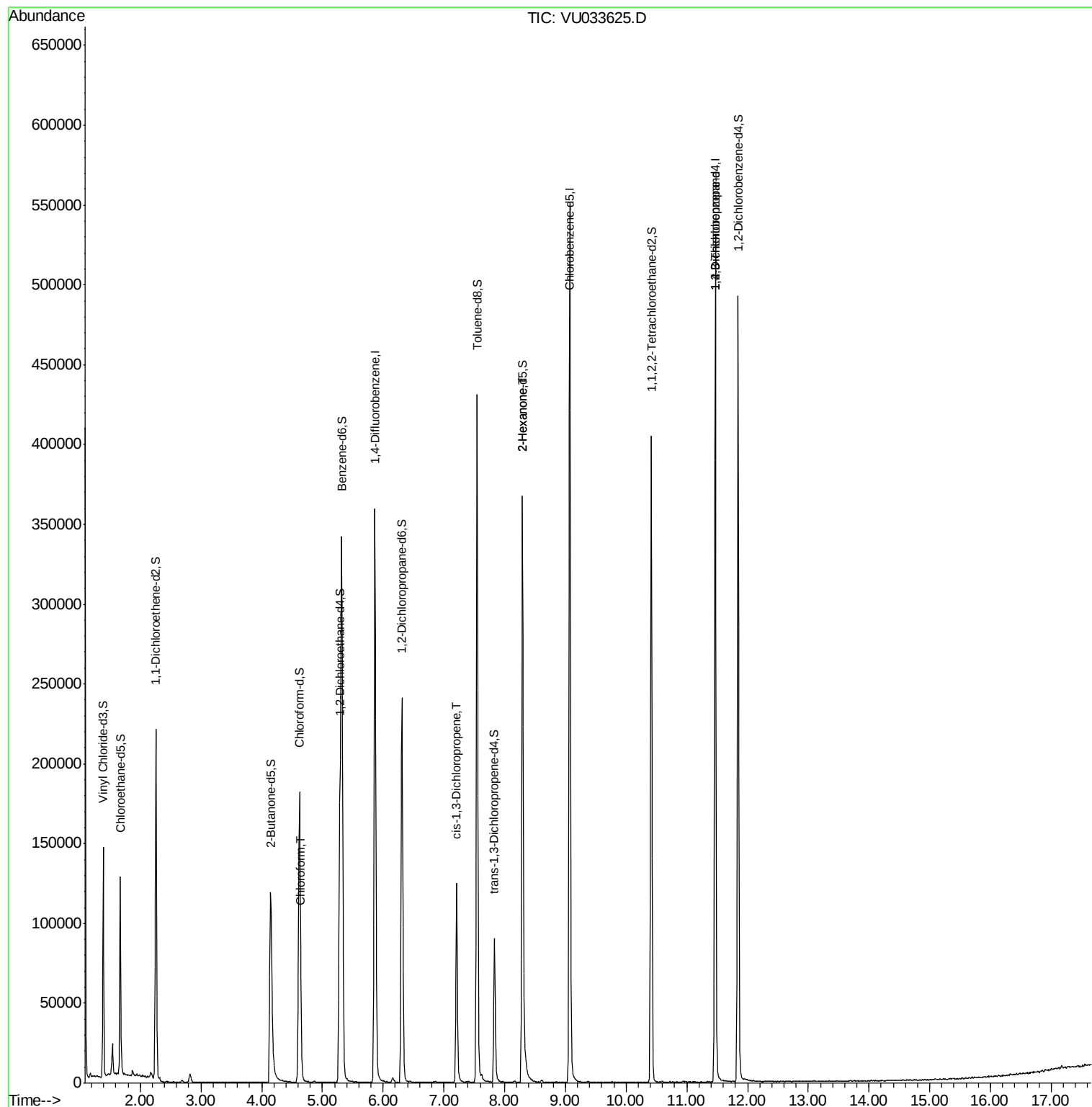
|                             |       |    |       |              | Qvalue |
|-----------------------------|-------|----|-------|--------------|--------|
| 25) Chloroform              | 4.65  | 83 | 6926  | 1.690 ug/L   | 96     |
| 39) cis-1,3-Dichloropropene | 7.21  | 75 | 3172  | 0.830 ug/L # | 59     |
| 48) 2-Hexanone              | 8.29  | 43 | 15292 | 5.325 ug/L # | 69     |
| 59) 1,2,3-Trichloropropane  | 11.47 | 75 | 16128 | 4.900 ug/L   | 93     |

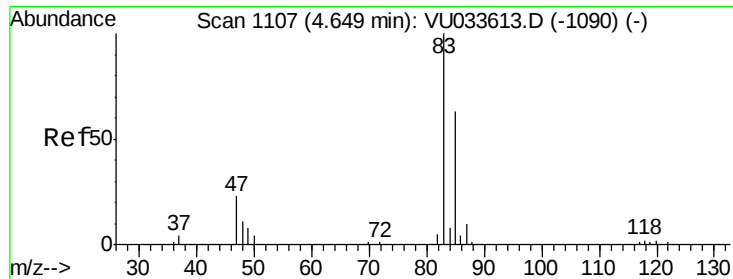
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU080719\  
Data File : VU033625.D  
Acq On : 07 Aug 2019 18:26  
Operator : JC/SP  
Sample : K4202-08 20X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B25

Quant Time: Aug 08 03:18:35 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

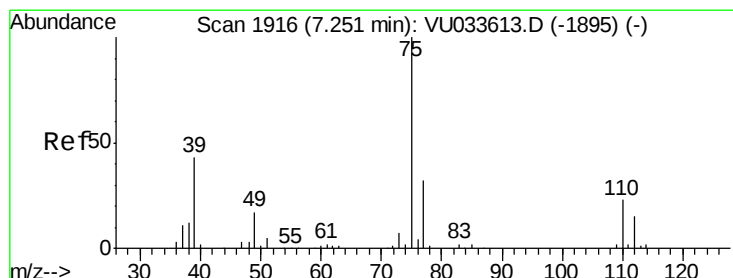
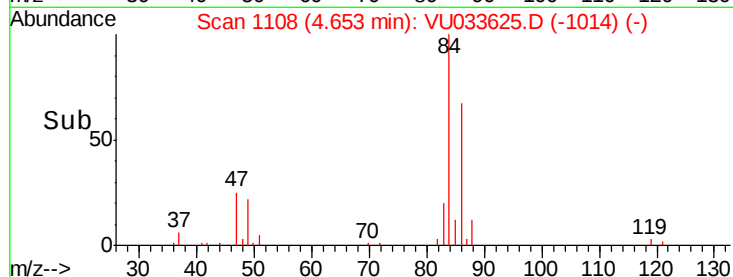
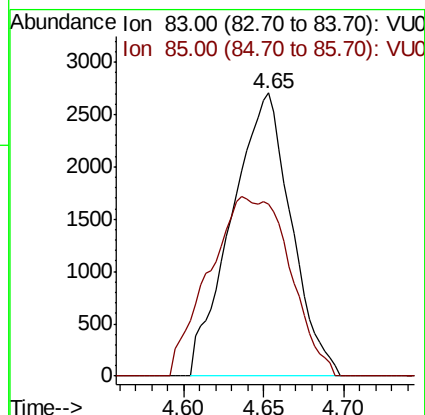
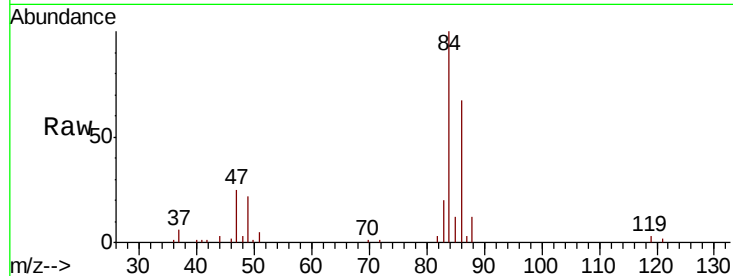




#25  
Chloroform  
Concen: 1.690 ug/L  
RT: 4.65 min Scan# 1108  
Delta R.T. 0.00 min  
Lab File: VU033625.D  
Acq: 07 Aug 2019 18:26

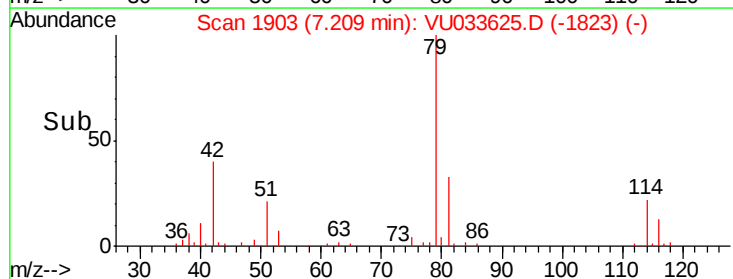
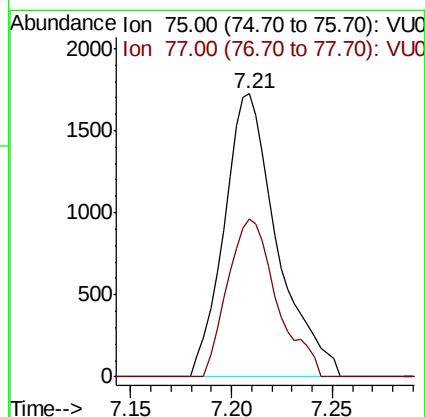
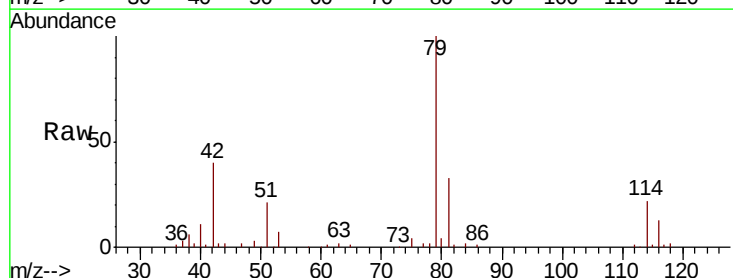
Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B25

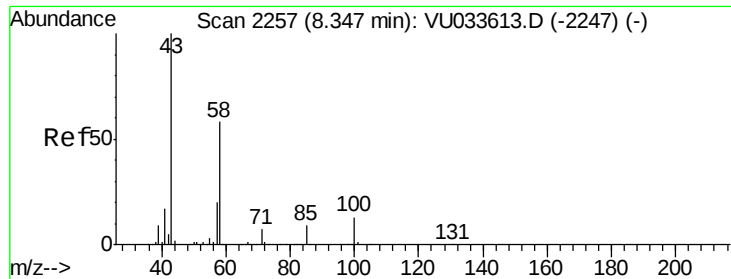
Tgt Ion: 83 Resp: 6926  
Ion Ratio Lower Upper  
83 100  
85 61.0 44.9 83.3



#39  
cis-1,3-Dichloropropene  
Concen: 0.830 ug/L  
RT: 7.21 min Scan# 1903  
Delta R.T. -0.04 min  
Lab File: VU033625.D  
Acq: 07 Aug 2019 18:26

Tgt Ion: 75 Resp: 3172  
Ion Ratio Lower Upper  
75 100  
77 55.6 22.7 42.3#

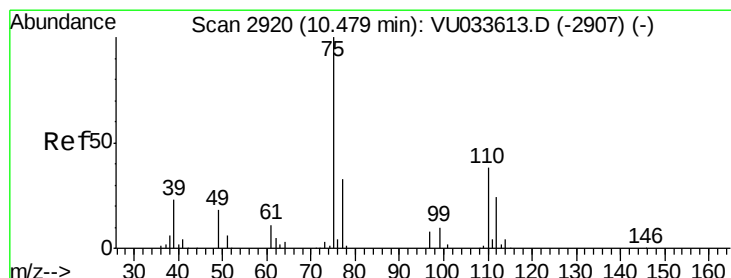
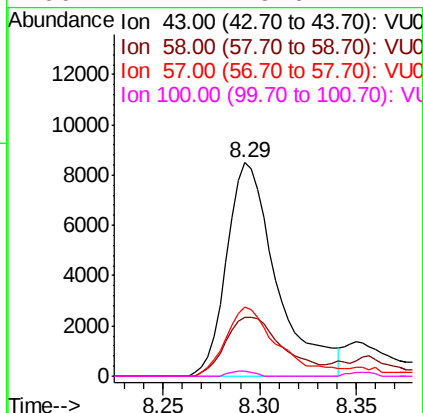
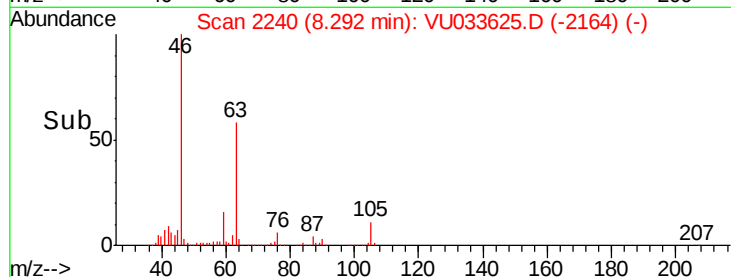
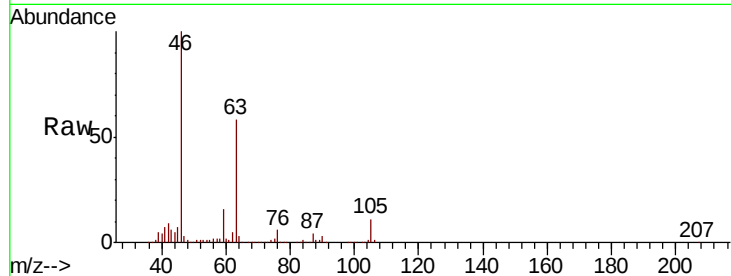




#48  
 2-Hexanone  
 Concen: 5.325 ug/L  
 RT: 8.29 min Scan# 2240  
 Delta R.T. -0.05 min  
 Lab File: VU033625.D  
 Acq: 07 Aug 2019 18:26

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F2B25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 15292 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 32.0  | 45.2  | 67.8# |
| 57       | 31.6  | 15.4  | 23.2# |
| 100      | 1.1   | 9.6   | 14.4# |



#59  
 1,2,3-Trichloropropane  
 Concen: 4.900 ug/L  
 RT: 11.47 min Scan# 3228  
 Delta R.T. 0.99 min  
 Lab File: VU033625.D  
 Acq: 07 Aug 2019 18:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 16128 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 36.1  | 25.7  | 38.5  |

