

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122118\  
 Data File : VU028866.D  
 Acq On : 21 Dec 2018 12:08  
 Operator : MD/SY  
 Sample : J6468-09ME  
 Misc : 3.58g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JG7ME

Manual Integrations  
 APPROVED

MMDadoda  
 12/24/2018 11:20:28 AM

Quant Time: Dec 21 23:54:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 21 23:27:40 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 206145   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 201452   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 93928    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 48250    | 29.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 58.40%# |
| 7) Chloroethane-d5             | 1.64    | 69    | 29156    | 22.84    | ug/L | -0.03   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 45.68%# |
| 11) 1,1-Dichloroethene-d2      | 2.22    | 63    | 63883m   | 22.99    | ug/L | -0.05   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 45.98%# |
| 21) 2-Butanone-d5              | 4.20    | 46    | 95965    | 82.88    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 82.88%  |
| 24) Chloroform-d               | 4.64    | 84    | 93256    | 35.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 71.76%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 59251    | 36.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 73.98%  |
| 32) Benzene-d6                 | 5.33    | 84    | 196134   | 34.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 68.92%# |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 69623    | 36.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 72.02%  |
| 41) Toluene-d8                 | 7.56    | 98    | 169523   | 32.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 65.74%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 31009    | 35.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.58%  |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 82101    | 89.41    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 89.41%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 113377   | 42.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 84.54%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 71947    | 37.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 75.74%# |

| Target Compounds           |      |     |      |            | Ovalue |
|----------------------------|------|-----|------|------------|--------|
| 20) cis-1,2-Dichloroethene | 4.22 | 96  | 8022 | 4.945 ug/L | 99     |
| 34) Trichloroethene        | 6.18 | 95  | 8488 | 5.482 ug/L | 97     |
| 46) Tetrachloroethene      | 8.22 | 164 | 7156 | 6.001 ug/L | 96     |

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

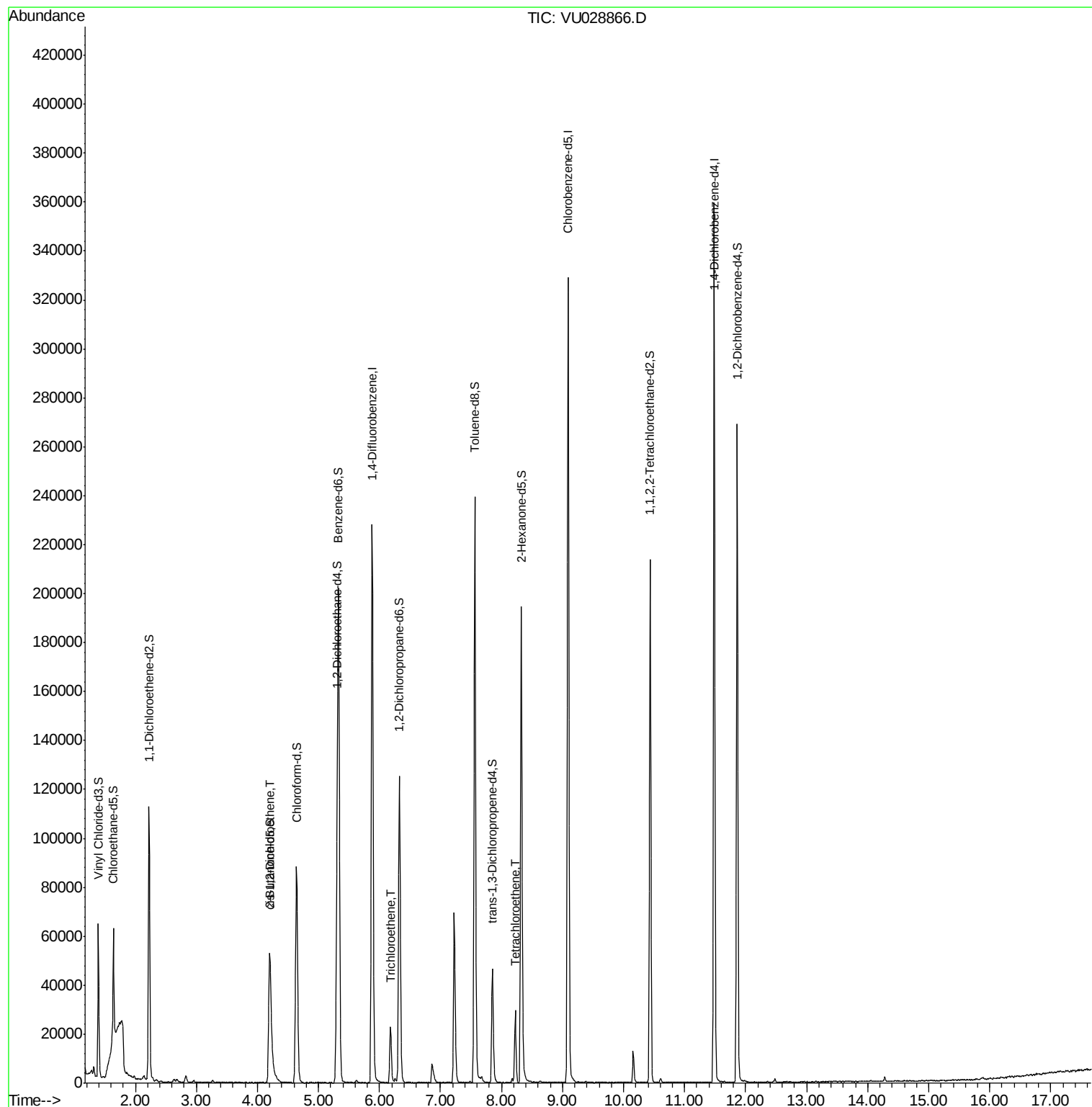
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU122118\  
Data File : VU028866.D  
Acq On : 21 Dec 2018 12:08  
Operator : MD/SY  
Sample : J6468-09ME  
Misc : 3.58µL/100µL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 8 Sample Multiplier: 1

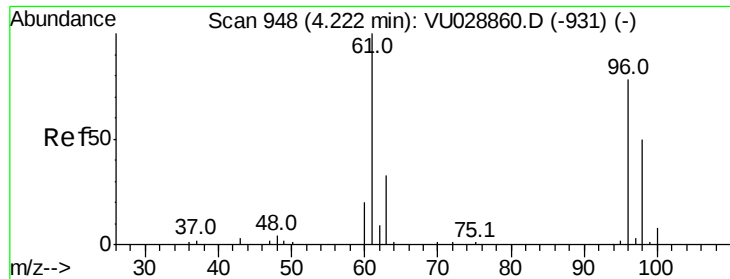
Instrument :  
MSVOA\_U  
ClientSampleId :  
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Quant Time: Dec 21 23:54:12 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 21 23:27:40 2018  
Response via : Initial Calibration





#20

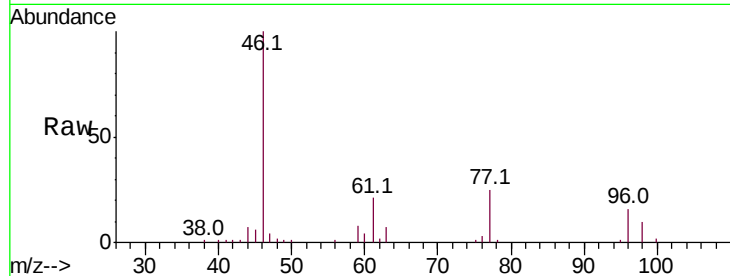
cis-1,2-Dichloroethene  
Concen: 4.945 ug/L  
RT: 4.22 min Scan# 946  
Delta R.T. -0.01 min  
Lab File: VU028866.D  
Acq: 21 Dec 2018 12:08

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JG7ME

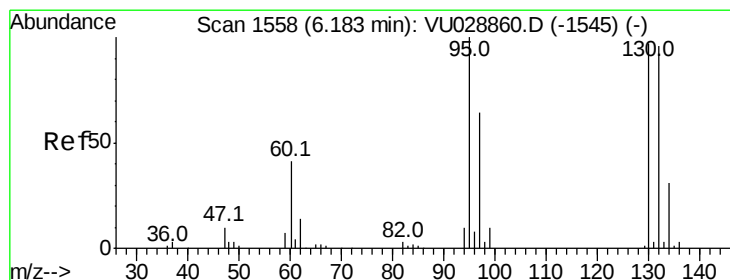
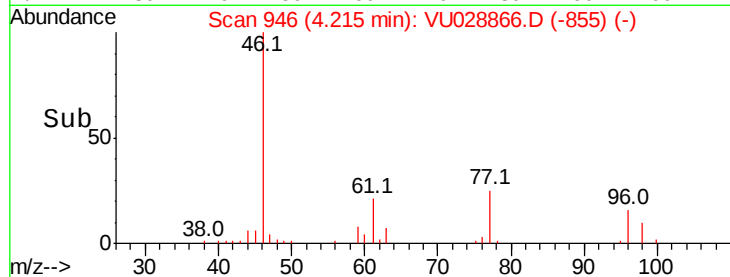
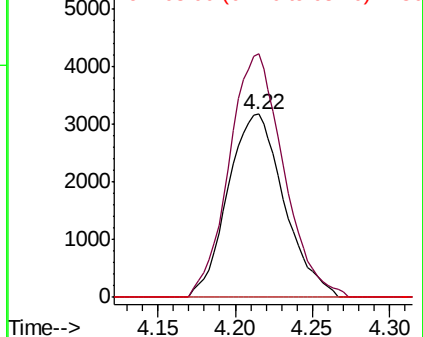
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 133.1 | 92.1  | 171.1 |
| 68      | 0.0   | 0.0   | 0.0   |

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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

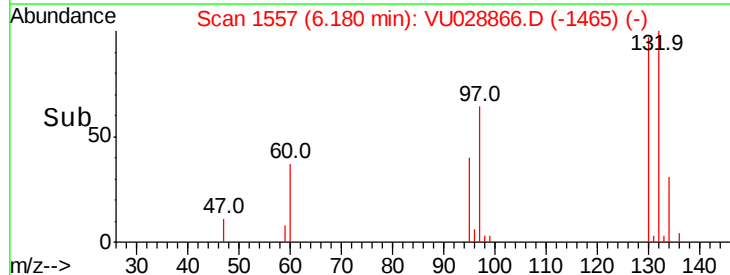
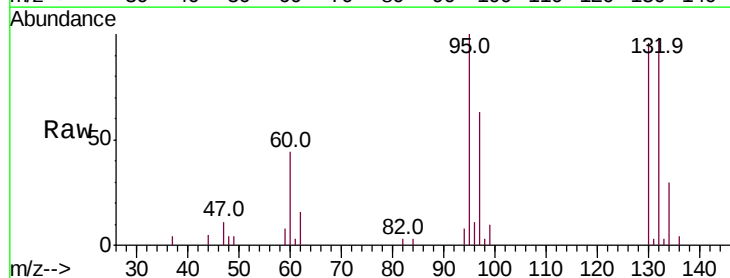
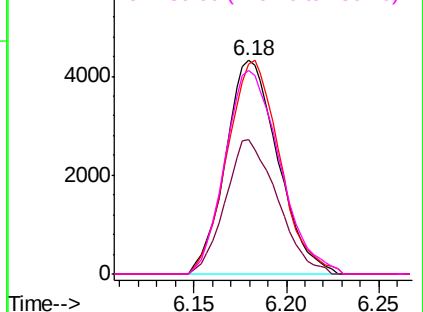


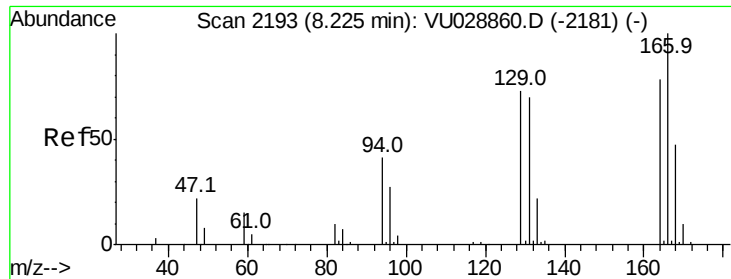
#34

Trichloroethene  
Concen: 5.482 ug/L  
RT: 6.18 min Scan# 1557  
Delta R.T. -0.00 min  
Lab File: VU028866.D  
Acq: 21 Dec 2018 12:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 97      | 62.8  | 43.3  | 80.3  |
| 132     | 98.1  | 64.2  | 119.2 |
| 130     | 95.6  | 67.1  | 124.7 |

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: 6.001 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU028866.D

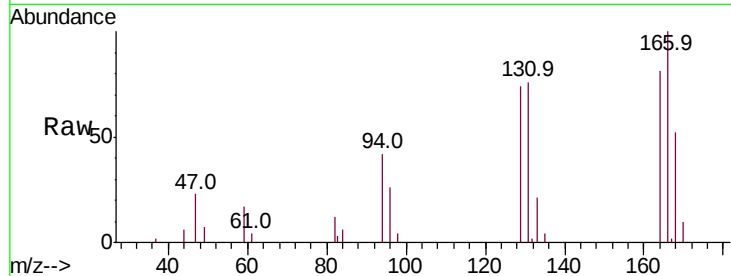
Acq: 21 Dec 2018 12:08

Instrument :

MSVOA\_U

ClientSampleId :

C0JG7ME



Tot Ion:164 Resp: 7156

Ion Ratio Lower Upper

164 100

129 91.5 66.8 124.0

131 93.3 64.2 119.2

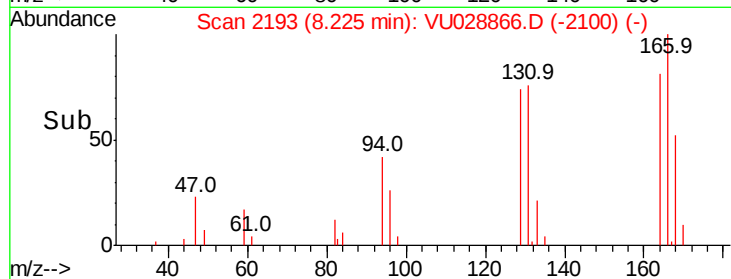
166 123.5 90.8 168.6

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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

