

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\  
 Data File : VU034781.D  
 Acq On : 24 Sep 2019 19:09  
 Operator : JC/SP  
 Sample : K4993-03MS  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETOH7MS

Quant Time: Sep 25 06:53:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Sep 25 02:59:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 581911   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 539004   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 242307   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 209703   | 35.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 70.40%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 194272   | 42.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 84.38%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 410095   | 40.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 81.30%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 454311   | 99.50    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 99.50%  |
| 24) Chloroform-d               | 4.62    | 84    | 394656   | 45.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.14%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 280264   | 44.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.04%  |
| 32) Benzene-d6                 | 5.32    | 84    | 838072   | 50.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.32% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 294298   | 50.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.80% |
| 41) Toluene-d8                 | 7.54    | 98    | 789287   | 49.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.32%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 126378   | 45.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.38%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 310522   | 105.88   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 105.88% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 400376   | 49.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.82%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 271561   | 53.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.90% |

## Target Compounds

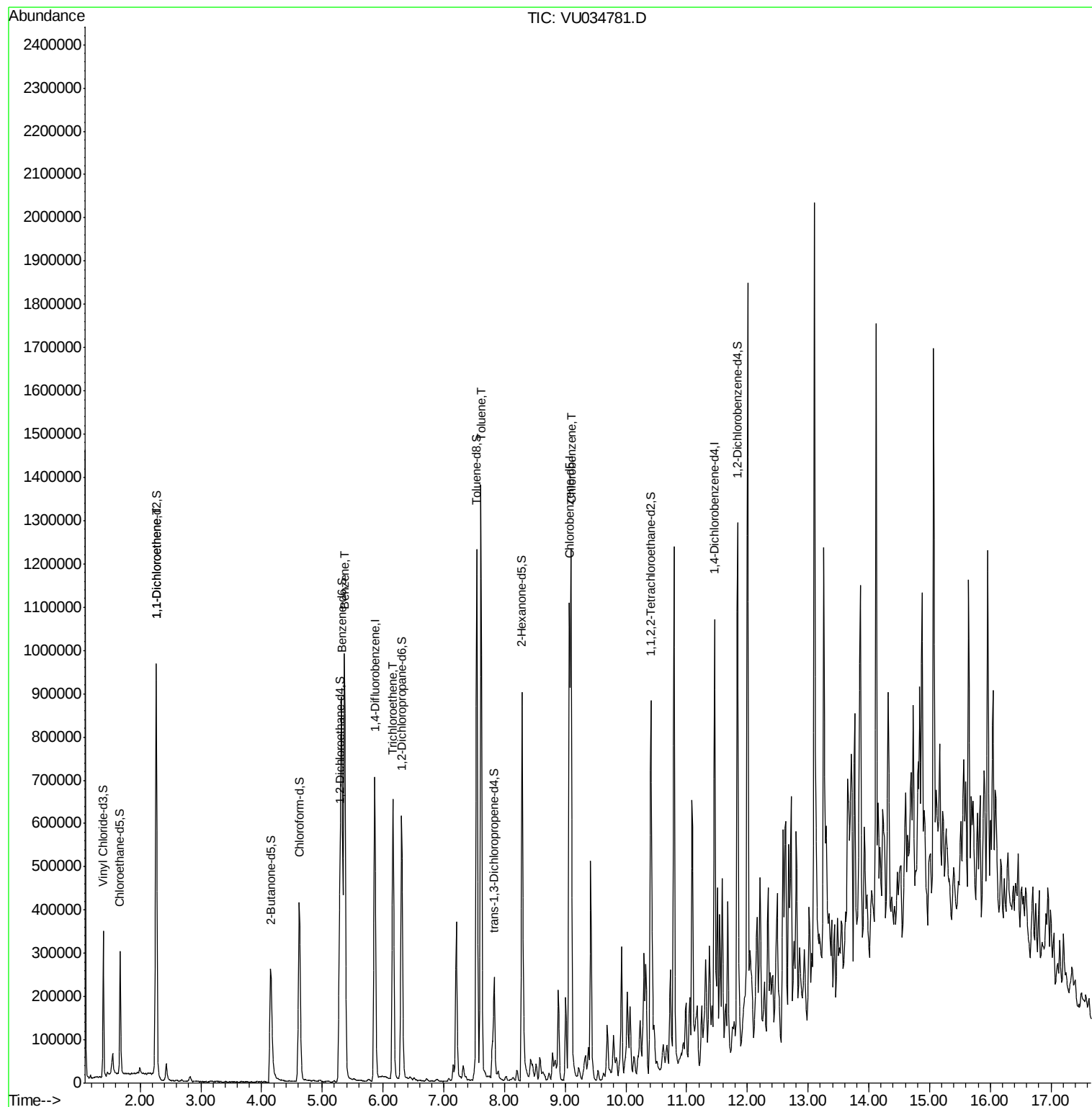
| Target Compounds       | R.T. | QIon | Response | Conc   | Units | Ovalue |
|------------------------|------|------|----------|--------|-------|--------|
| 12) 1,1-Dichloroethene | 2.27 | 96   | 186010   | 48.857 | ug/L  | 77     |
| 33) Benzene            | 5.36 | 78   | 908407   | 48.594 | ug/L  | 100    |
| 34) Trichloroethene    | 6.16 | 95   | 221628   | 48.005 | ug/L  | 95     |
| 42) Toluene            | 7.61 | 91   | 980374   | 48.526 | ug/L  | 99     |
| 51) Chlorobenzene      | 9.10 | 112  | 596893   | 48.602 | ug/L  | 97     |

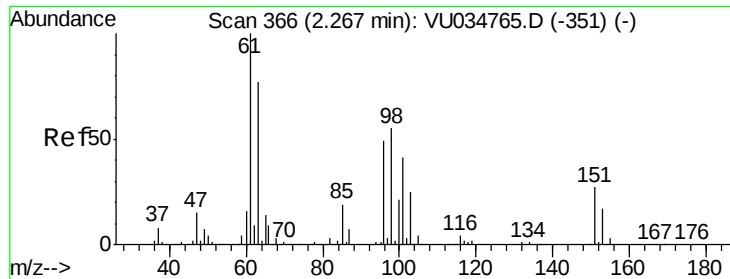
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 25 02:59:31 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 48.857 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU034781.D

Acq: 24 Sep 2019 19:09

Instrument :

MSVOA\_U

ClientSampleId :

ETOH7MS

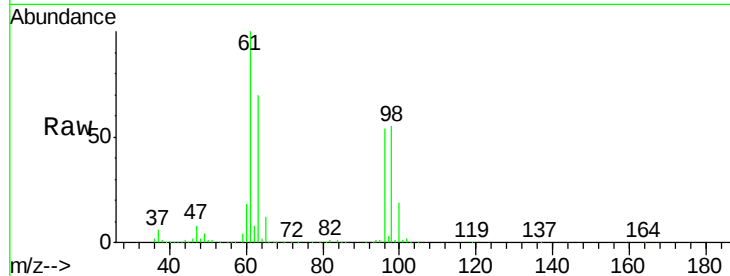
Tot Ion: 96 Resp: 186010

Ion Ratio Lower Upper

96 100

61 184.0 153.2 284.4

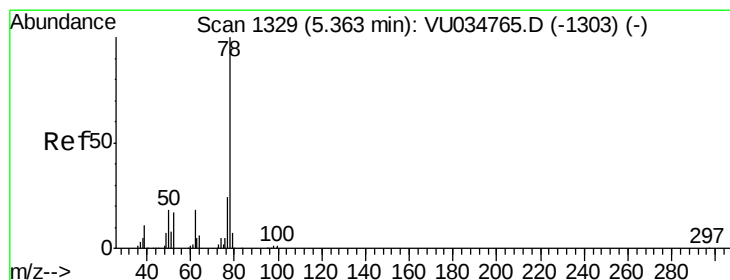
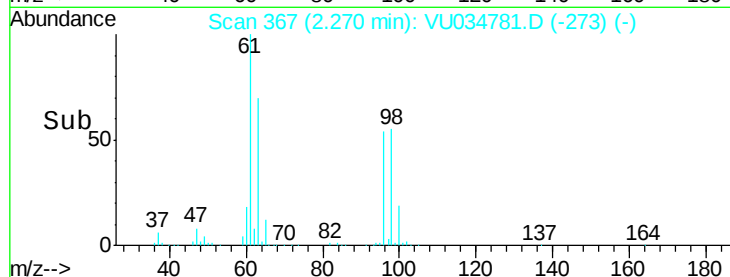
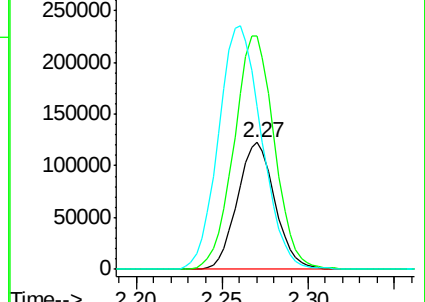
63 129.1 113.8 211.3



Abundance Ion 96.00 (95.70 to 96.70): VU034781.D (-273) (-)

Ion 61.00 (60.70 to 61.70): VU034781.D (-273) (-)

Ion 63.00 (62.70 to 63.70): VU034781.D (-273) (-)



#33

Benzene

Concen: 48.594 ug/L

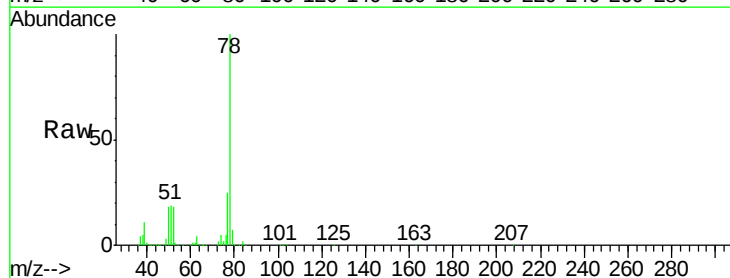
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU034781.D

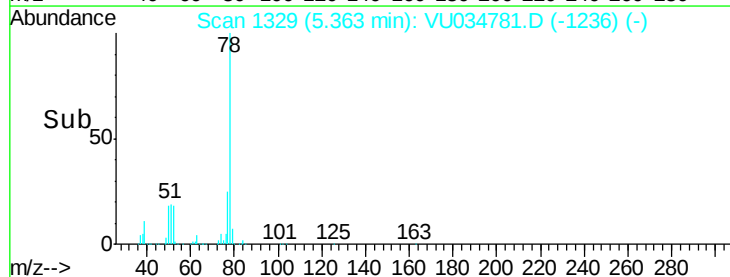
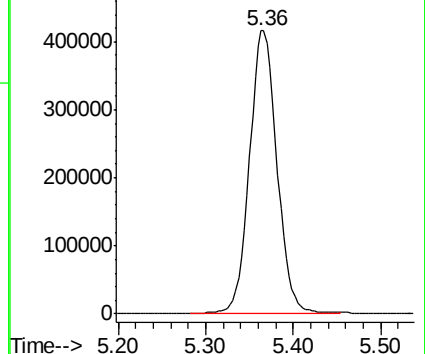
Acq: 24 Sep 2019 19:09

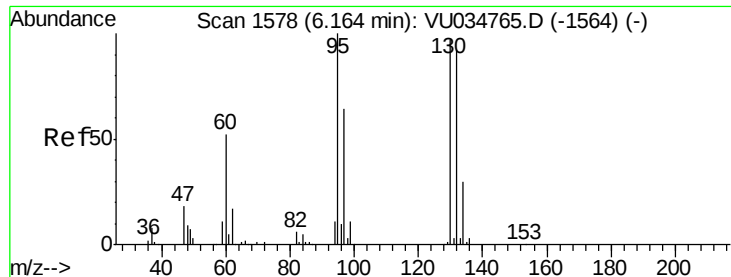
Tgt Ion: 78 Resp: 908407



Abundance Ion 78.00 (77.70 to 78.70): VU034781.D (-1236) (-)

Ion 51.00 (50.70 to 51.70): VU034781.D (-1236) (-)

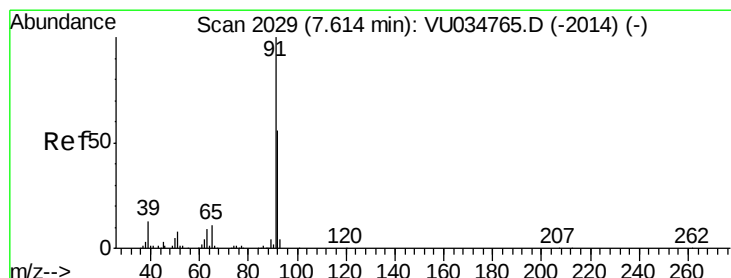
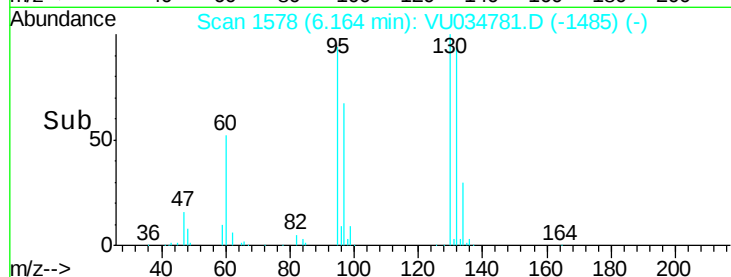
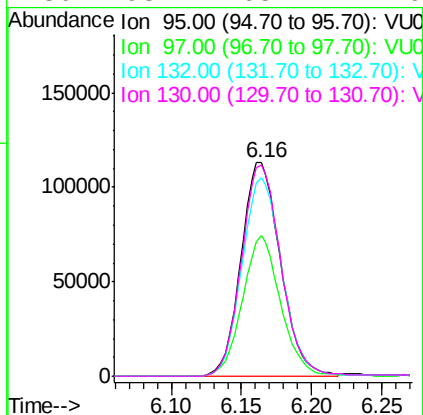
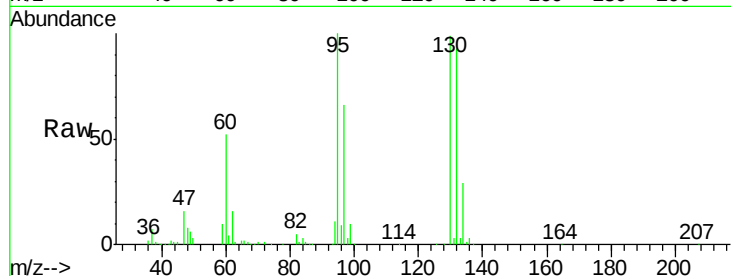




#34  
 Trichloroethene  
 Concen: 48.005 ug/L  
 RT: 6.16 min Scan# 1578  
 Delta R.T. 0.00 min  
 Lab File: VU034781.D  
 Acq: 24 Sep 2019 19:09

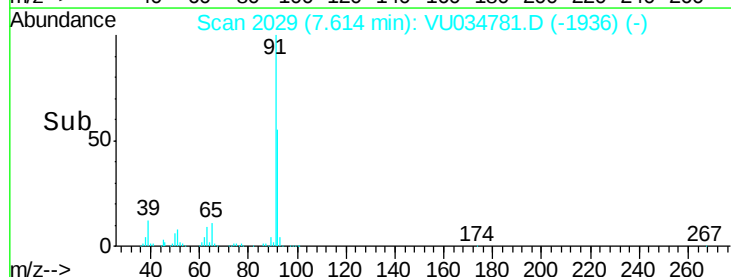
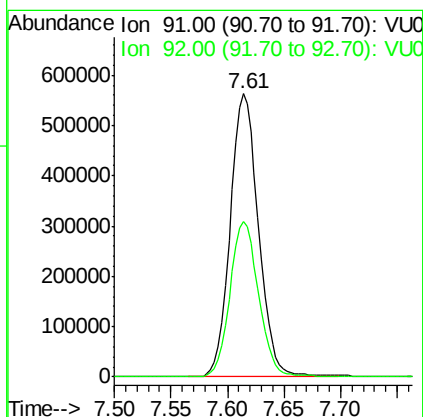
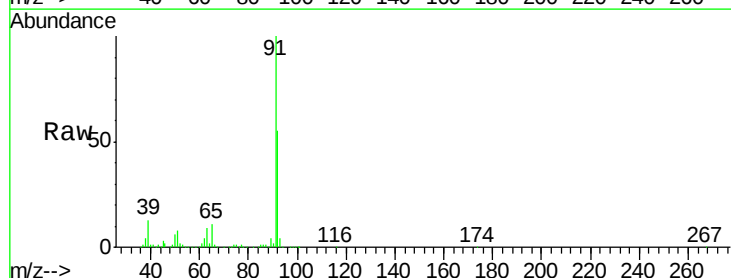
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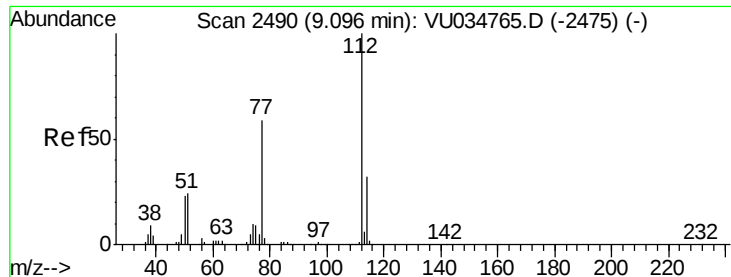
Tot Ion: 95 Resp: 221628  
 Ion Ratio Lower Upper  
 95 100  
 97 65.9 43.7 81.1  
 132 93.1 61.0 113.2  
 130 98.7 65.7 121.9



#42  
 Toluene  
 Concen: 48.526 ug/L  
 RT: 7.61 min Scan# 2029  
 Delta R.T. -0.00 min  
 Lab File: VU034781.D  
 Acq: 24 Sep 2019 19:09

Tgt Ion: 91 Resp: 980374  
 Ion Ratio Lower Upper  
 91 100  
 92 55.0 38.2 71.0

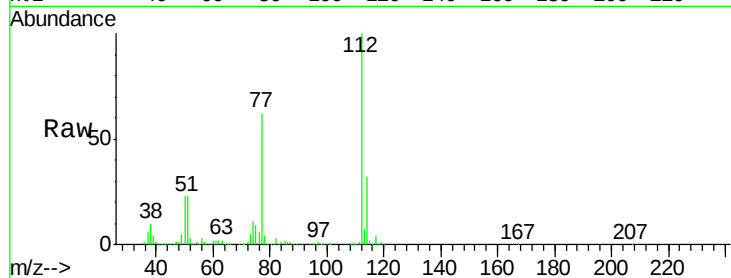




#51  
 Chlorobenzene  
 Concen: 48.602 ug/L  
 RT: 9.10 min Scan# 2490  
 Delta R.T. -0.00 min  
 Lab File: VU034781.D  
 Acq: 24 Sep 2019 19:09

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETOH7MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.6  | 22.8  | 42.4  |
| 77      | 62.0  | 51.5  | 77.3  |



Abundance Ion 112.00 (111.70 to 112.70): V  
 Ion 114.00 (113.70 to 114.70): V  
 Ion 77.00 (76.70 to 77.70): V

