

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072118\  
 Data File : VU025576.D  
 Acq On : 21 Jul 2018 11:44  
 Operator : MD/SY  
 Sample : J4097-09MS  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0AA7MS

Quant Time: Jul 23 01:31:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jul 23 01:10:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 294713   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 274818   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 132118   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 77314    | 45.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.90%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 67150    | 48.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.76%  |
| 11) 1,1-Dichloroethene-d2      | 2.28    | 63    | 170405   | 48.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.30%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 136808   | 105.32   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.32% |
| 24) Chloroform-d               | 4.65    | 84    | 185014   | 49.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.74%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 128561   | 51.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.74% |
| 32) Benzene-d6                 | 5.35    | 84    | 365767   | 51.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.78% |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 117930   | 51.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 103.86% |
| 41) Toluene-d8                 | 7.57    | 98    | 346458   | 51.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.52% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 58688    | 50.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.18% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 102023   | 107.29   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 107.29% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 159705   | 50.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 100.56% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 142843   | 53.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.70% |

## Target Compounds

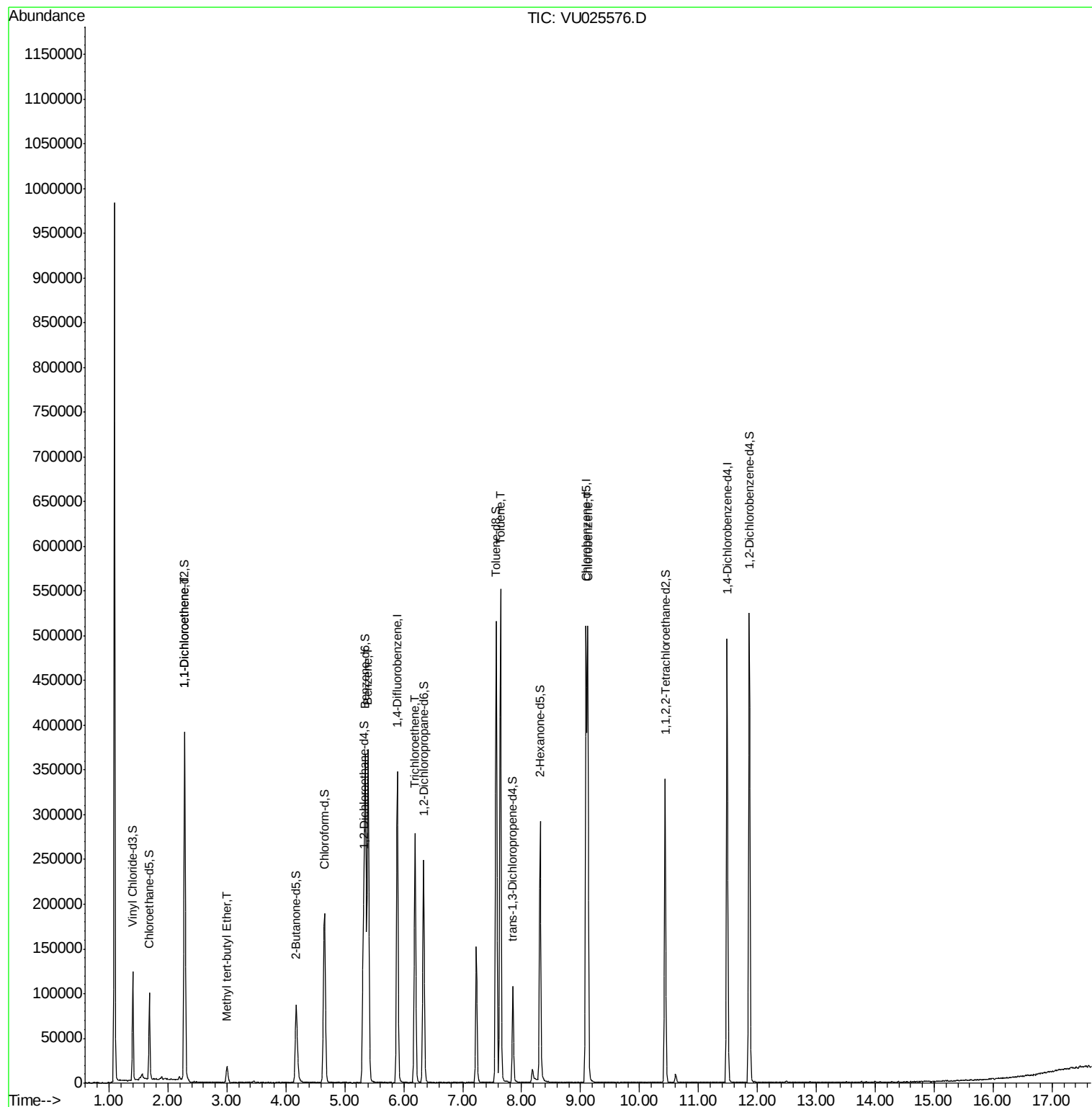
|                             |      |     |        |       |      | Ovalue |
|-----------------------------|------|-----|--------|-------|------|--------|
| 12) 1,1-Dichloroethene      | 2.29 | 96  | 74767  | 44.95 | ug/L | 96     |
| 18) Methyl tert-butyl Ether | 3.00 | 73  | 19795  | 3.17  | ug/L | 99     |
| 33) Benzene                 | 5.39 | 78  | 365736 | 46.32 | ug/L | 100    |
| 34) Trichloroethene         | 6.19 | 95  | 94506  | 45.11 | ug/L | 98     |
| 42) Toluene                 | 7.64 | 91  | 398919 | 46.85 | ug/L | 100    |
| 51) Chlorobenzene           | 9.12 | 112 | 263054 | 45.89 | ug/L | 98     |

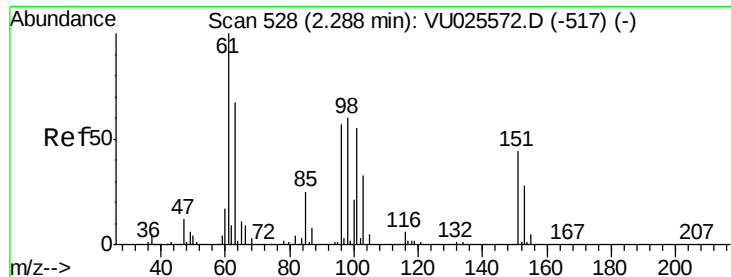
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Mon Jul 23 01:10:42 2018  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 44.95 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025576.D

Acq: 21 Jul 2018 11:44

Instrument :

MSVOA\_U

ClientSampleId :

H0AA7MS

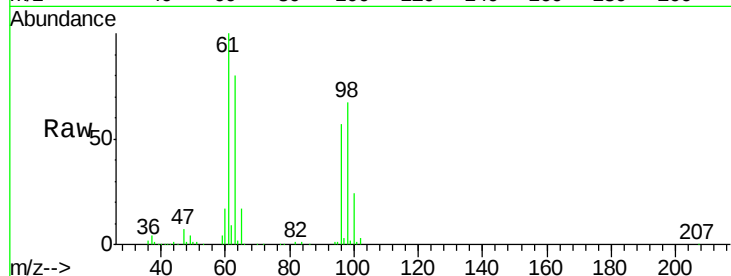
Tot Ion: 96 Resp: 74767

Ion Ratio Lower Upper

96 100

61 175.3 122.5 227.5

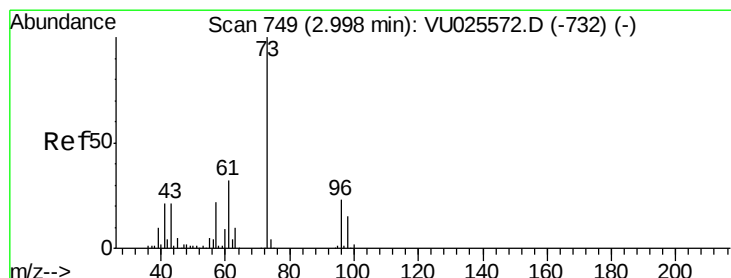
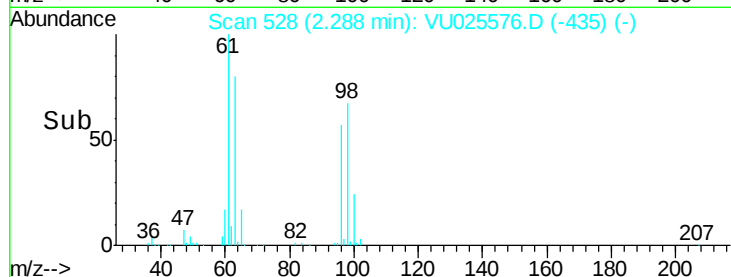
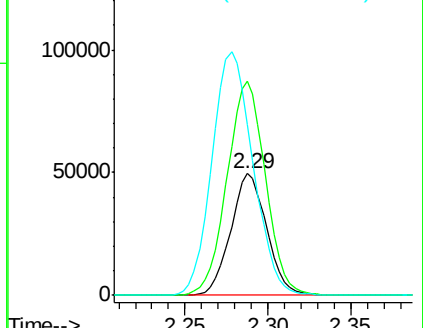
63 139.9 90.9 168.9



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0



#18

Methyl tert-butyl Ether

Concen: 3.17 ug/L

RT: 3.00 min Scan# 749

Delta R.T. -0.00 min

Lab File: VU025576.D

Acq: 21 Jul 2018 11:44

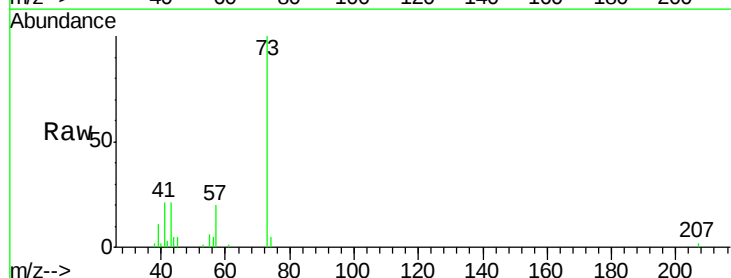
Tgt Ion: 73 Resp: 19795

Ion Ratio Lower Upper

73 100

43 20.3 16.2 24.2

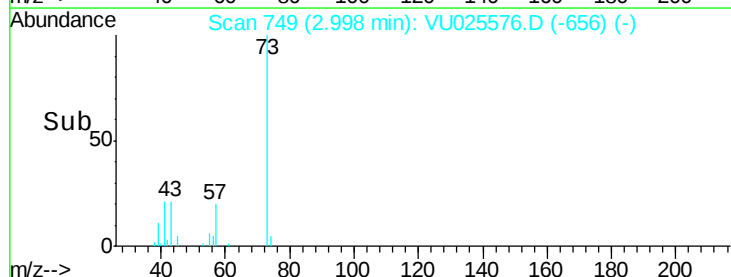
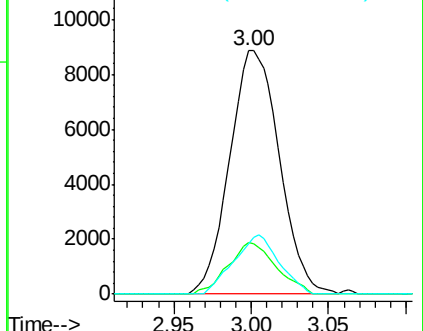
57 22.1 17.1 25.7

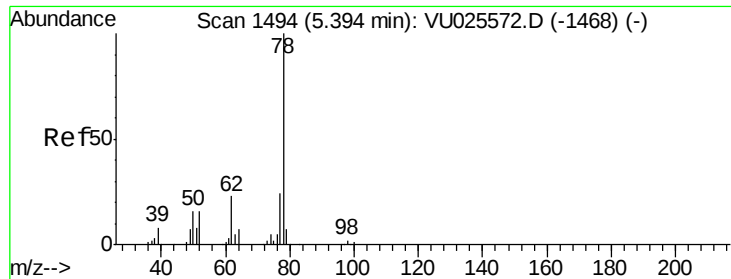


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#33

Benzene

Concen: 46.32 ug/L

RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VU025576.D

Acq: 21 Jul 2018 11:44

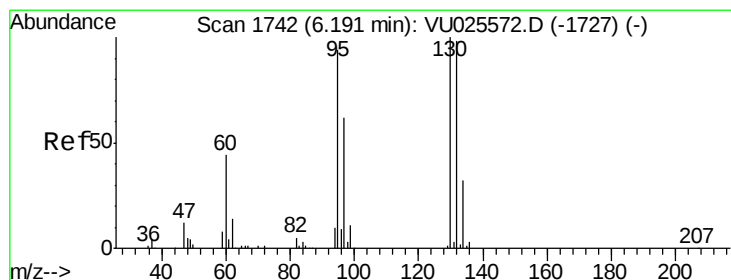
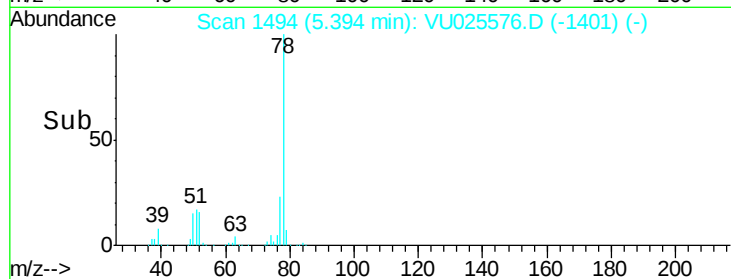
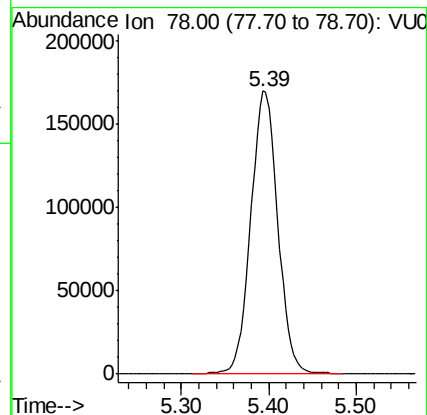
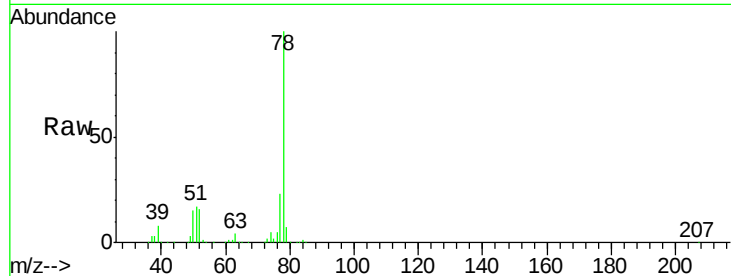
Instrument :

MSVOA\_U

ClientSampleId :

H0AA7MS

Tgt Ion: 78 Resp: 365736



#34

Trichloroethene

Concen: 45.11 ug/L

RT: 6.19 min Scan# 1742

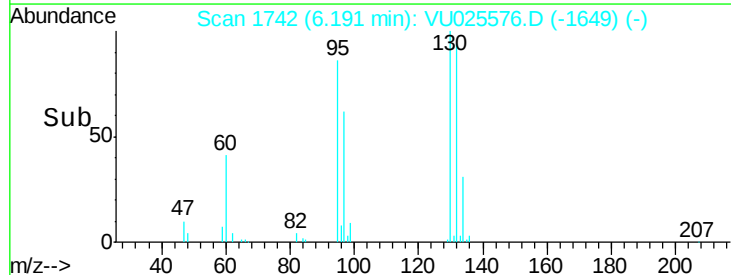
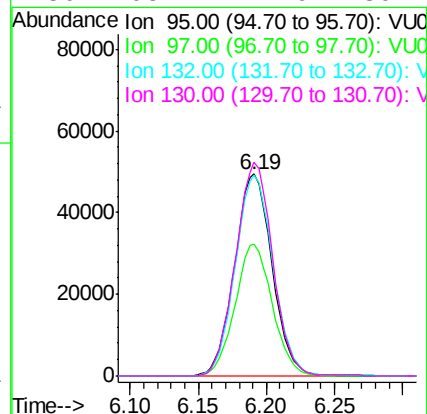
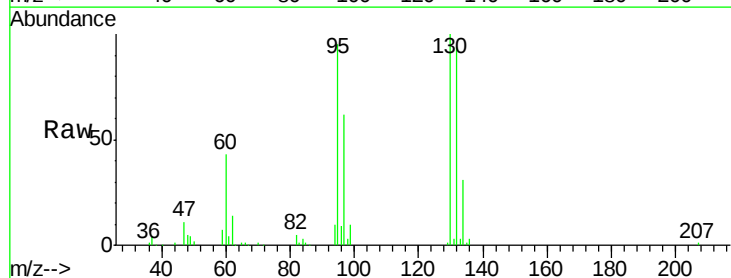
Delta R.T. -0.00 min

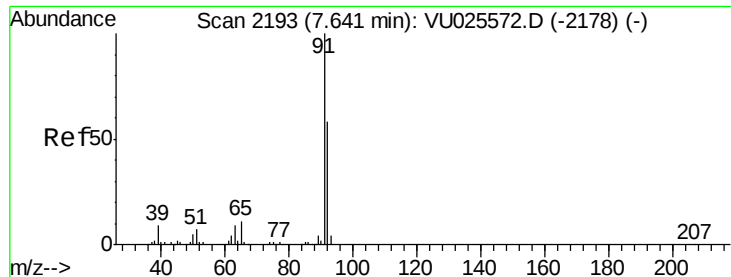
Lab File: VU025576.D

Acq: 21 Jul 2018 11:44

Tgt Ion: 95 Resp: 94506

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.5  | 45.9  | 85.3  |
| 132 | 99.5  | 72.2  | 134.2 |
| 130 | 105.7 | 74.9  | 139.1 |





#42

Toluene

Concen: 46.85 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025576.D

Acq: 21 Jul 2018 11:44

Instrument :

MSVOA\_U

ClientSampleId :

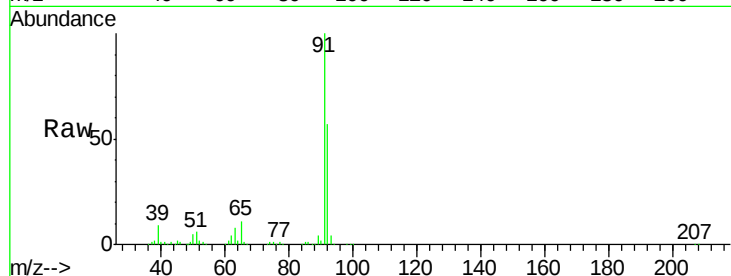
H0AA7MS

Tot Ion: 91 Resp: 398919

Ion Ratio Lower Upper

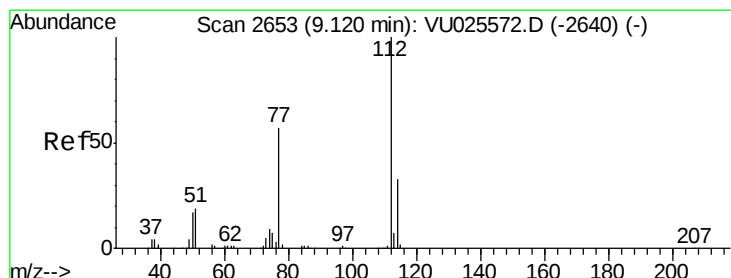
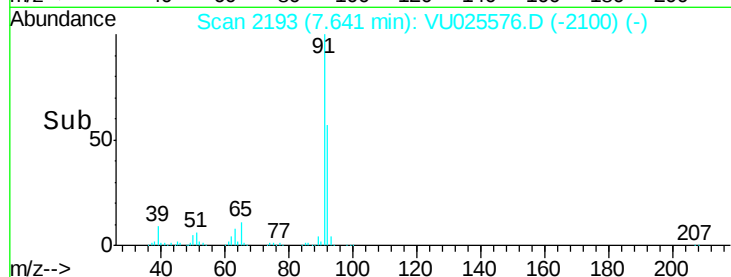
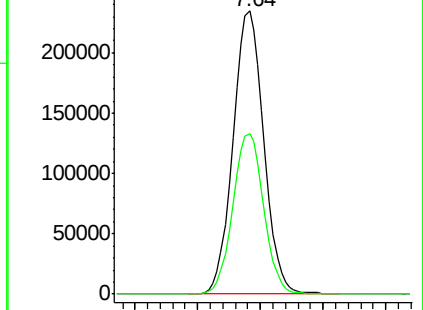
91 100

92 56.8 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU025576.D (-2100) (-)

Ion 92.00 (91.70 to 92.70): VU025576.D (-2100) (-)



#51

Chlorobenzene

Concen: 45.89 ug/L

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU025576.D

Acq: 21 Jul 2018 11:44

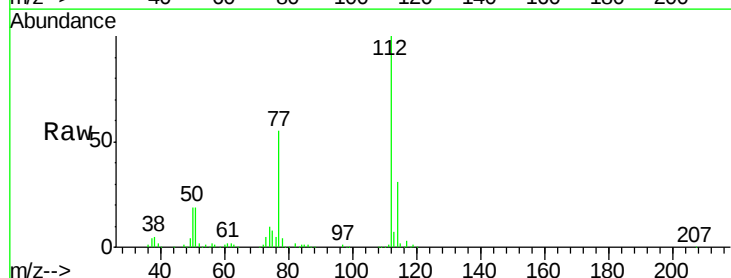
Tgt Ion: 112 Resp: 263054

Ion Ratio Lower Upper

112 100

114 31.3 22.5 41.9

77 55.5 45.8 68.8



Abundance Ion 112.00 (111.70 to 112.70): VU025576.D (-2560) (-)

Ion 114.00 (113.70 to 114.70): VU025576.D (-2560) (-)

Ion 77.00 (76.70 to 77.70): VU025576.D (-2560) (-)

