

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV090418\  
 Data File : VV007378.D  
 Acq On : 05 Sep 2018 12:27  
 Operator : SY/MD  
 Sample : J4678-08MS  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 E5FC5MS

Quant Time: Sep 06 01:05:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM090418WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Sep 06 00:43:59 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 512020   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 500227   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 185555   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 159265   | 43.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 87.10%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 99057    | 41.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 82.70%  |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 307816   | 47.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.56%  |
| 21) 2-Butanone-d5              | 3.96    | 46    | 269156   | 90.48    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 90.48%  |
| 24) Chloroform-d               | 4.41    | 84    | 346088   | 45.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.50%  |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 216639   | 47.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.94%  |
| 32) Benzene-d6                 | 5.10    | 84    | 691918   | 45.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.78%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 237376   | 46.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.96%  |
| 41) Toluene-d8                 | 7.37    | 98    | 572286   | 44.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.20%  |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 97992    | 45.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.06%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 178651   | 90.20    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 90.20%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 308014   | 44.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.26%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 216656   | 54.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 108.66% |

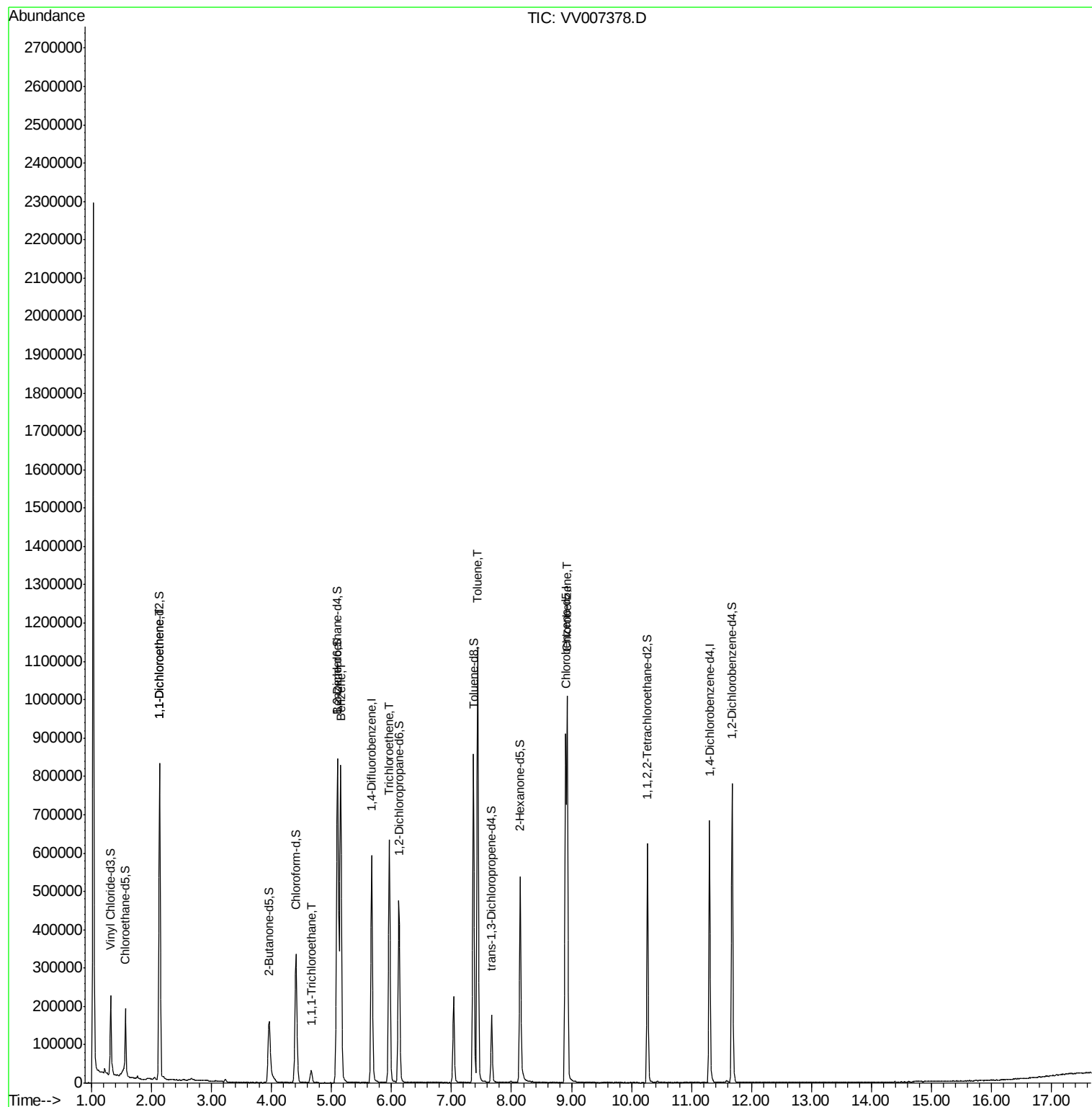
| Target Compounds          | R.T. | QIon | Response | Conc  | Units | Ovalue |
|---------------------------|------|------|----------|-------|-------|--------|
| 12) 1,1-Dichloroethene    | 2.14 | 96   | 173513   | 53.58 | ug/L  | 95     |
| 30) 1,1,1-Trichloroethane | 4.66 | 97   | 25801    | 4.22  | ug/L  | 96     |
| 33) Benzene               | 5.15 | 78   | 836375   | 52.27 | ug/L  | 100    |
| 34) Trichloroethene       | 5.96 | 95   | 218090   | 55.83 | ug/L  | 99     |
| 42) Toluene               | 7.44 | 91   | 829821   | 53.91 | ug/L  | 100    |
| 51) Chlorobenzene         | 8.93 | 112  | 531253   | 51.11 | ug/L  | 99     |

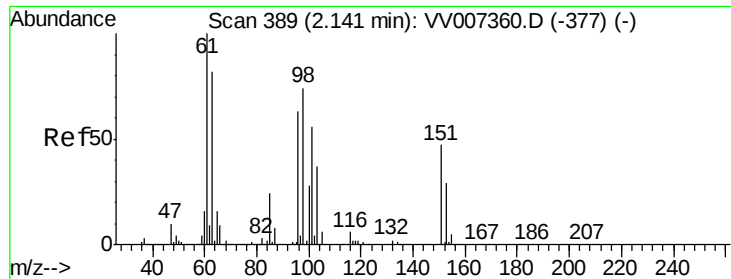
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Thu Sep 06 00:43:59 2018  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 53.58 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV007378.D

Acq: 05 Sep 2018 12:27

Instrument :

MSVOA\_V

ClientSampleId :

E5FC5MS

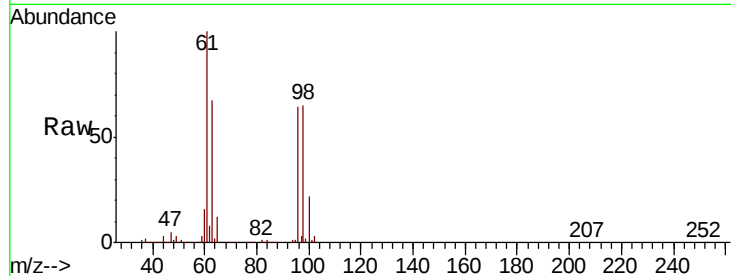
Tot Ion: 96 Resp: 173513

Ion Ratio Lower Upper

96 100

61 156.6 108.6 201.8

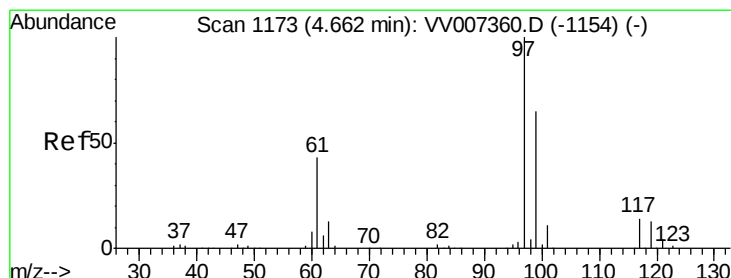
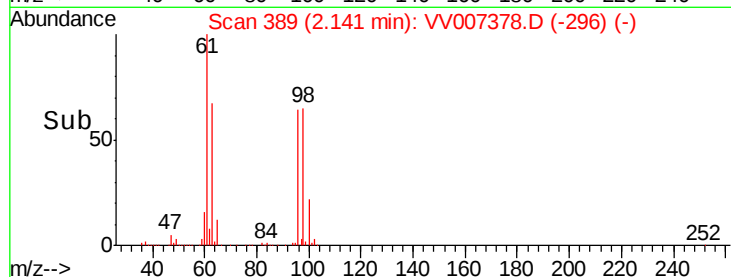
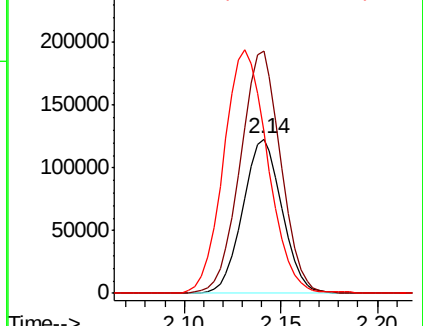
63 104.7 81.5 151.3



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0



#30

1,1,1-Trichloroethane

Concen: 4.22 ug/L

RT: 4.66 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VV007378.D

Acq: 05 Sep 2018 12:27

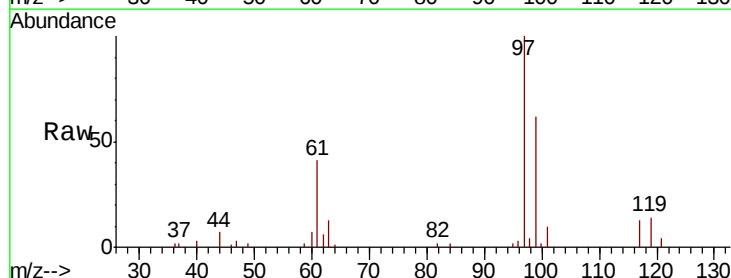
Tgt Ion: 97 Resp: 25801

Ion Ratio Lower Upper

97 100

99 60.6 52.1 78.1

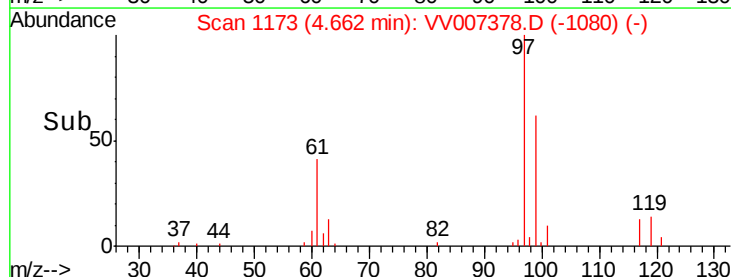
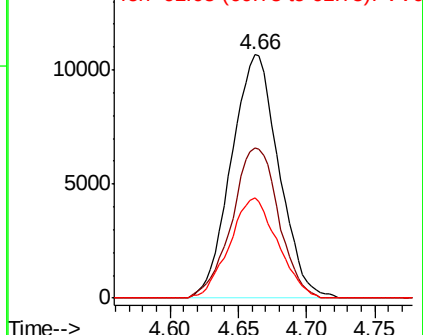
61 41.7 34.6 51.8

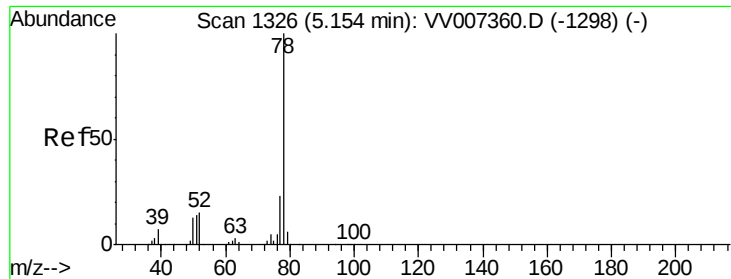


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#33

Benzene

Concen: 52.27 ug/L

RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VV007378.D

Acq: 05 Sep 2018 12:27

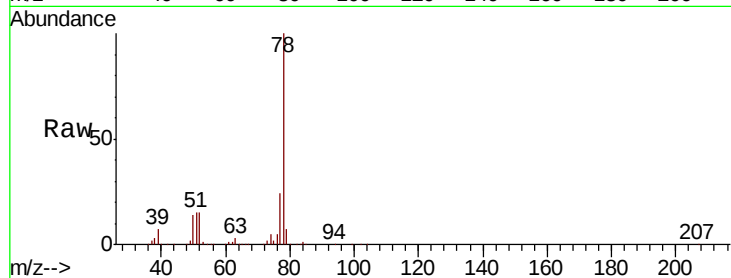
Instrument :

MSVOA\_V

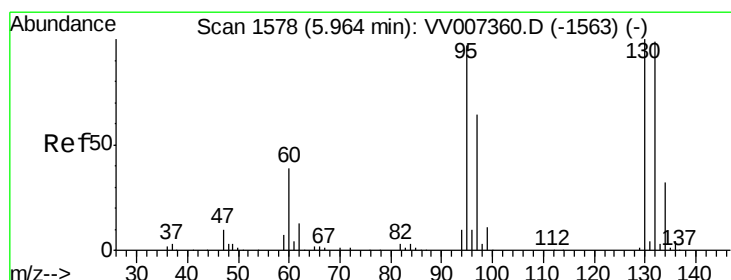
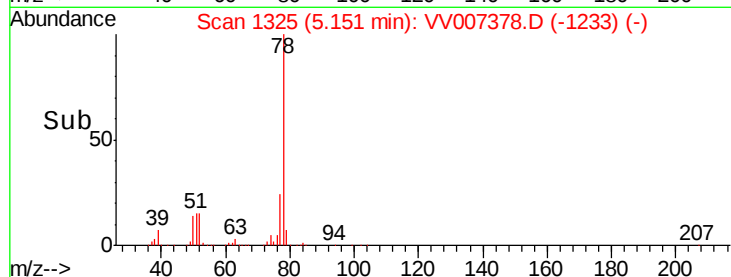
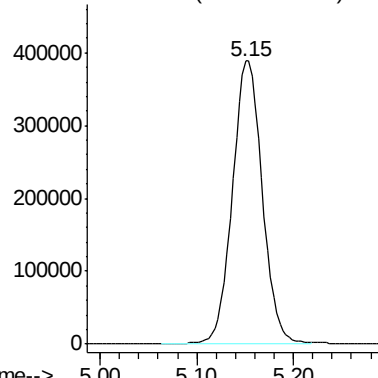
ClientSampleId :

E5FC5MS

Tgt Ion: 78 Resp: 836375



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 55.83 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VV007378.D

Acq: 05 Sep 2018 12:27

Tgt Ion: 95 Resp: 218090

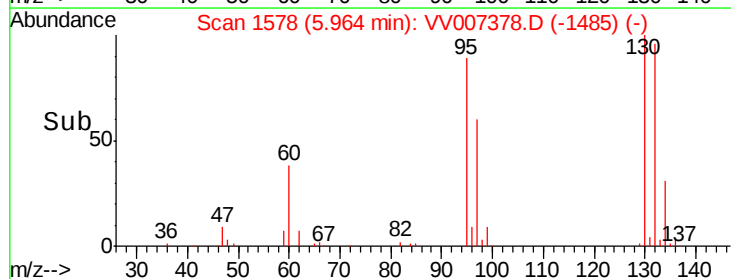
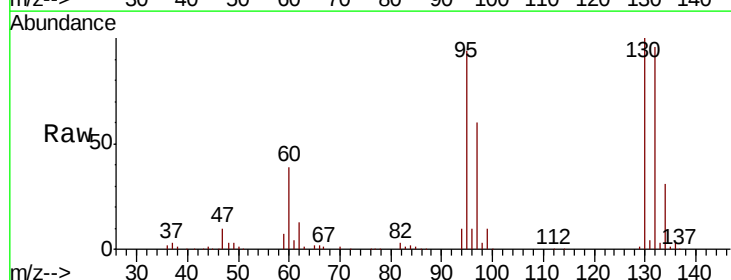
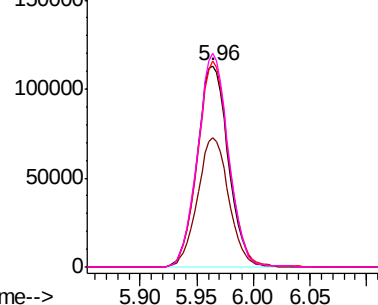
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.0  | 46.1  | 85.7  |
| 132 | 101.9 | 70.8  | 131.6 |
| 130 | 105.9 | 73.9  | 137.3 |

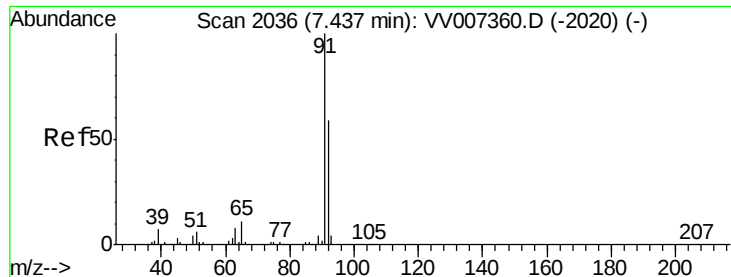
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0





#42

Toluene

Concen: 53.91 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VV007378.D

Acq: 05 Sep 2018 12:27

Instrument :

MSVOA\_V

ClientSampled :

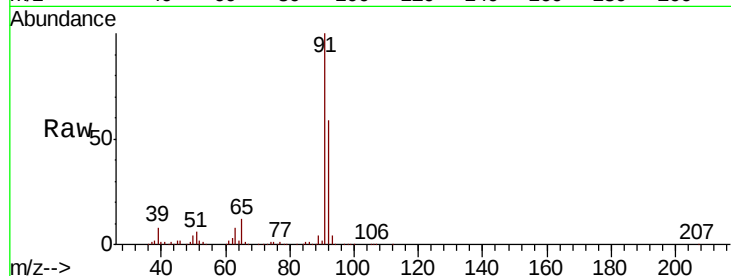
E5FC5MS

Tot Ion: 91 Resp: 829821

Ion Ratio Lower Upper

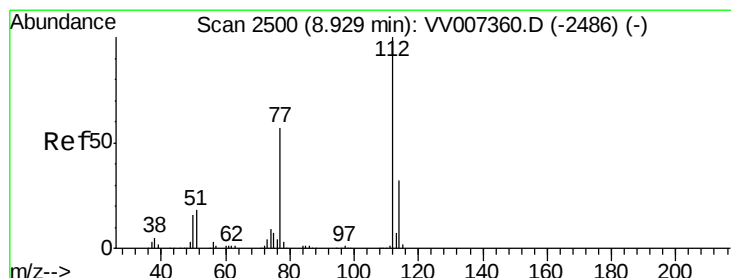
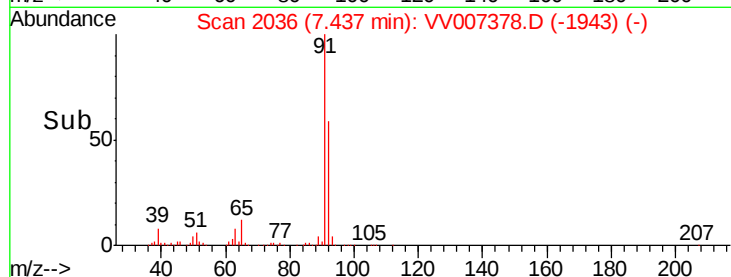
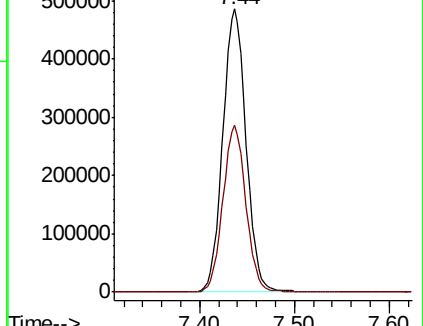
91 100

92 58.7 41.3 76.7



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#51

Chlorobenzene

Concen: 51.11 ug/L

RT: 8.93 min Scan# 2500

Delta R.T. -0.00 min

Lab File: VV007378.D

Acq: 05 Sep 2018 12:27

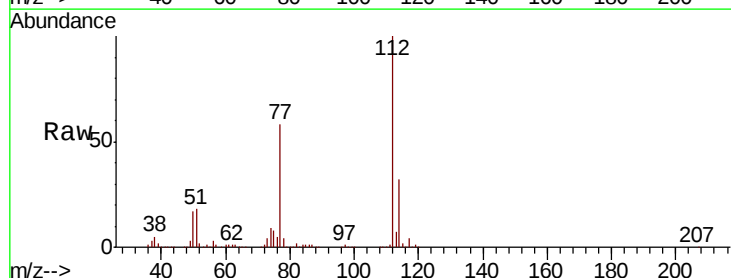
Tgt Ion: 112 Resp: 531253

Ion Ratio Lower Upper

112 100

114 31.5 22.5 41.7

77 57.6 46.5 69.7



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): VV0

