

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU073119\  
 Data File : VU033521.D  
 Acq On : 31 Jul 2019 13:25  
 Operator : JC/SP  
 Sample : K4103-05MS  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB9D8MS

Quant Time: Aug 01 08:10:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM073119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 01 07:20:33 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 289118   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 283657   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 129315   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 115545   | 54.97    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 109.94%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 121078   | 67.13    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 134.26%# |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 207961   | 54.51    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 109.02%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 169700   | 121.89   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 121.89%  |
| 24) Chloroform-d               | 4.62    | 84    | 205198   | 58.24    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 116.48%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 134241   | 60.16    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 120.32%  |
| 32) Benzene-d6                 | 5.32    | 84    | 417351   | 59.35    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 118.70%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 133630   | 60.62    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 121.24%# |
| 41) Toluene-d8                 | 7.55    | 98    | 376983   | 57.21    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 114.42%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 64085    | 58.61    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 117.22%  |
| 47) 2-Hexanone-d5              | 8.30    | 63    | 128220   | 122.52   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 122.52%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 196196   | 57.72    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 115.44%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 145932   | 61.63    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 123.26%# |

## Target Compounds

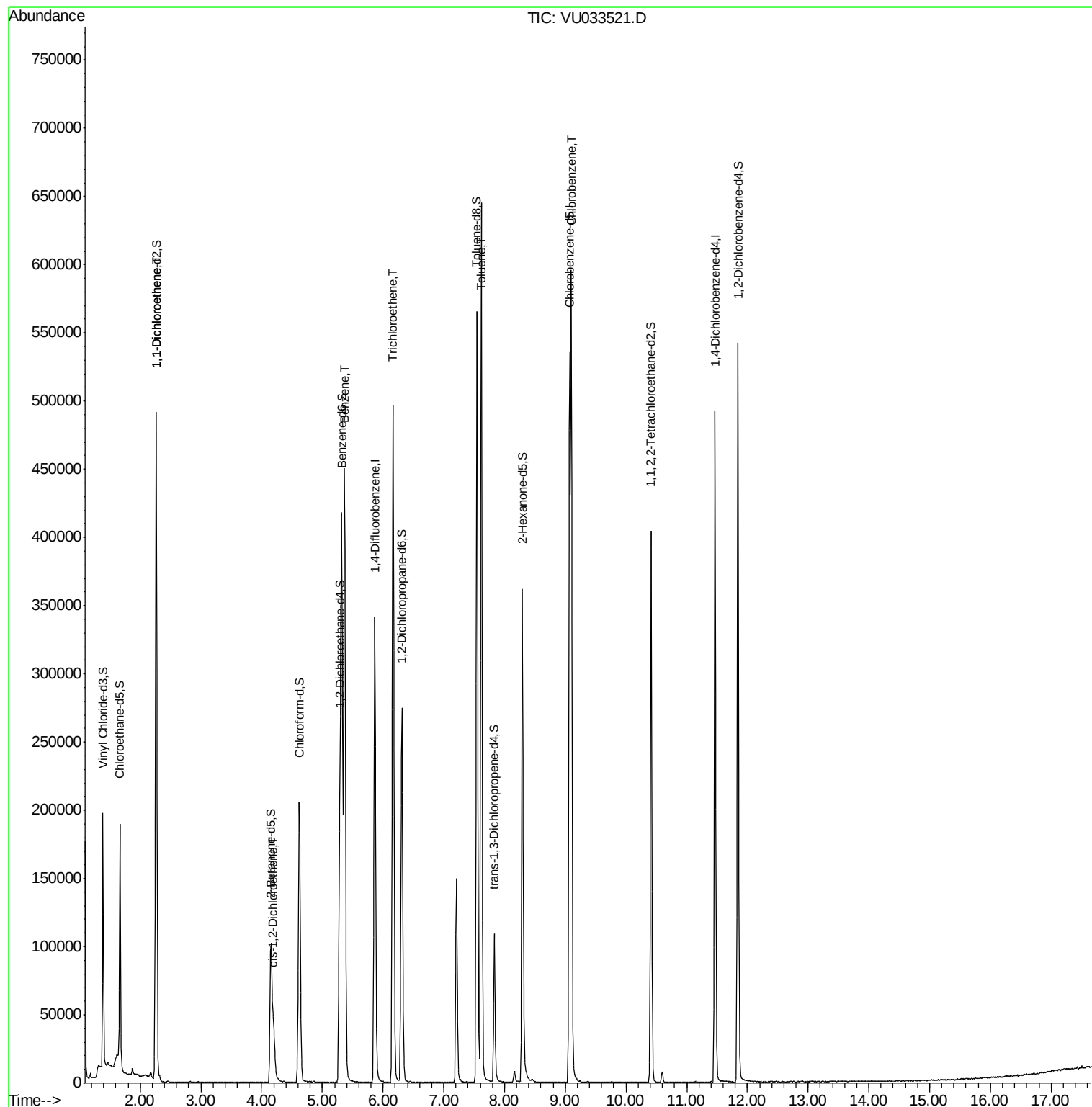
| Target Compounds           | R.T. | QIon | Response | Conc   | Units | Ovalue |
|----------------------------|------|------|----------|--------|-------|--------|
| 12) 1,1-Dichloroethene     | 2.27 | 96   | 97885    | 52.281 | ug/L  | 97     |
| 20) cis-1,2-Dichloroethene | 4.20 | 96   | 16673    | 7.573  | ug/L  | 91     |
| 33) Benzene                | 5.37 | 78   | 450156   | 55.011 | ug/L  | 100    |
| 34) Trichloroethene        | 6.16 | 95   | 171235   | 79.328 | ug/L  | 99     |
| 42) Toluene                | 7.62 | 91   | 478794   | 54.414 | ug/L  | 100    |
| 51) Chlorobenzene          | 9.10 | 112  | 303396   | 52.666 | ug/L  | 99     |

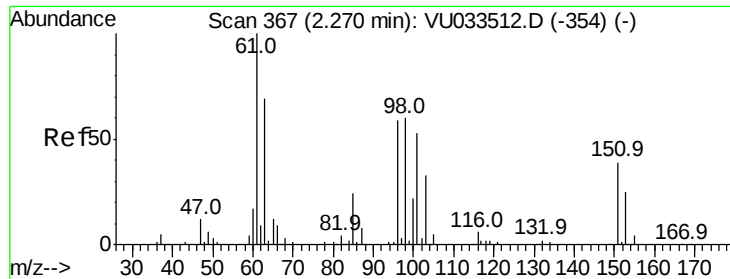
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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DB9D8MS

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Quant Title : VOC Analysis  
QLast Update : Thu Aug 01 07:20:33 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 52.281 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033521.D

Acq: 31 Jul 2019 13:25

Instrument :

MSVOA\_U

ClientSampleId :

DB9D8MS

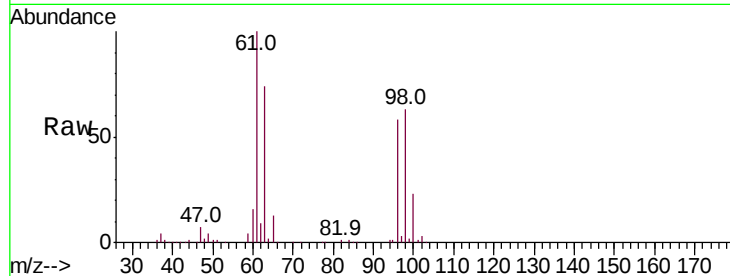
Tot Ion: 96 Resp: 97885

Ion Ratio Lower Upper

96 100

61 173.6 119.3 221.5

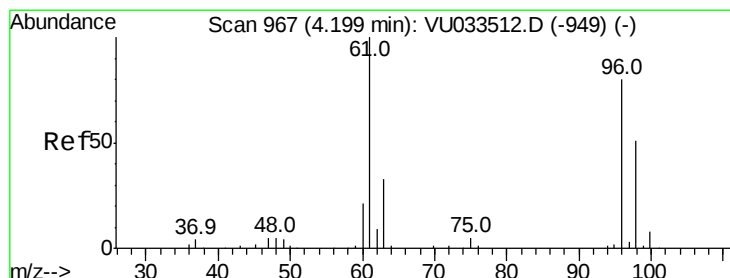
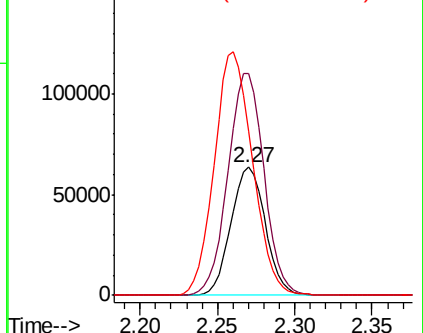
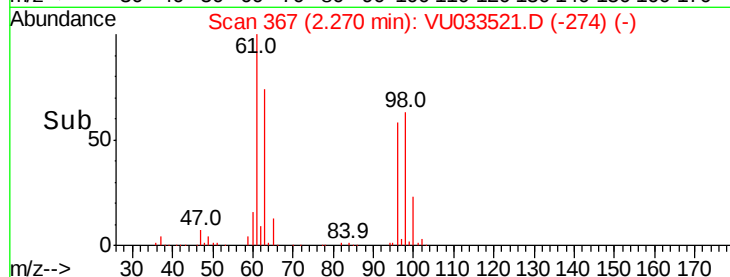
63 128.1 86.6 160.8



Abundance Ion 96.00 (95.70 to 96.70): VU033521.D (-274) (-)

Ion 61.00 (60.70 to 61.70): VU033521.D (-274) (-)

Ion 63.00 (62.70 to 63.70): VU033521.D (-274) (-)



#20

cis-1,2-Dichloroethene

Concen: 7.573 ug/L

RT: 4.20 min Scan# 966

Delta R.T. -0.00 min

Lab File: VU033521.D

Acq: 31 Jul 2019 13:25

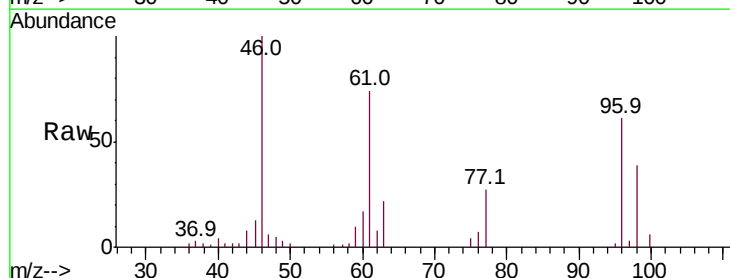
Tgt Ion: 96 Resp: 16673

Ion Ratio Lower Upper

96 100

61 120.3 91.3 169.6

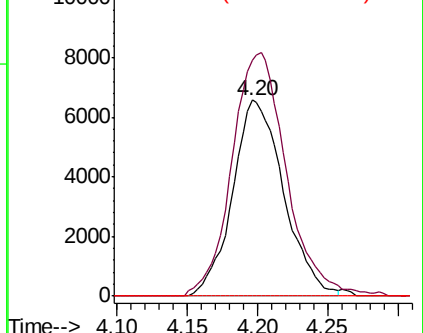
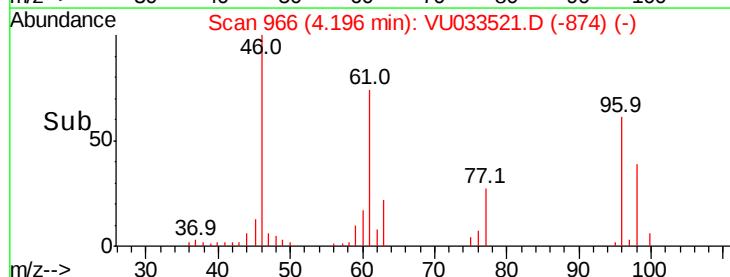
68 0.0 0.0 0.0

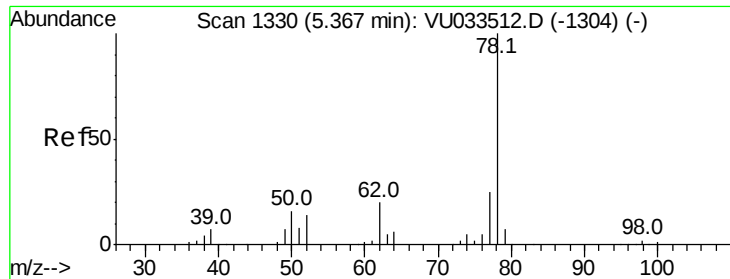


Abundance Ion 96.00 (95.70 to 96.70): VU033521.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033521.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033521.D (-874) (-)

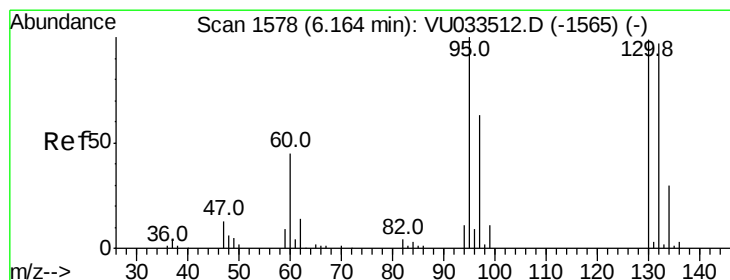
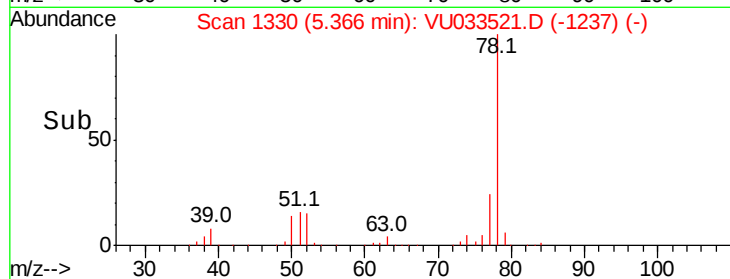
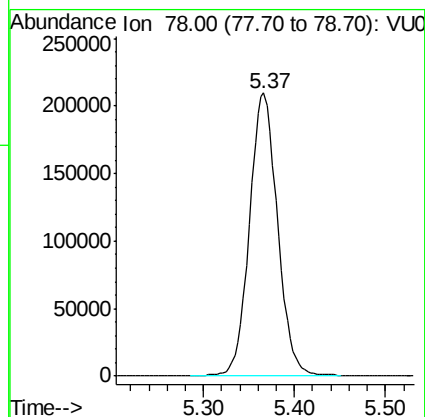
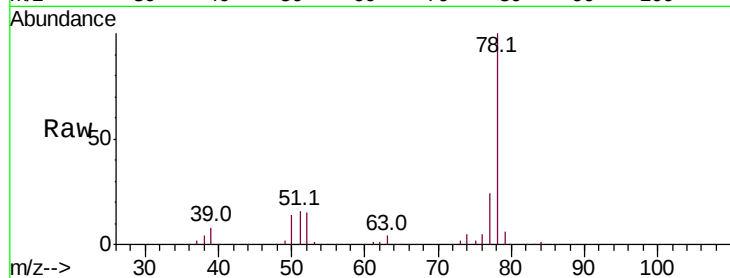




#33  
Benzene  
Concen: 55.011 ug/L  
RT: 5.37 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: VU033521.D  
Acq: 31 Jul 2019 13:25

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB9D8MS

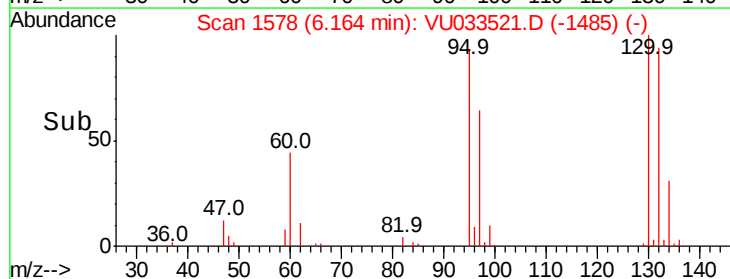
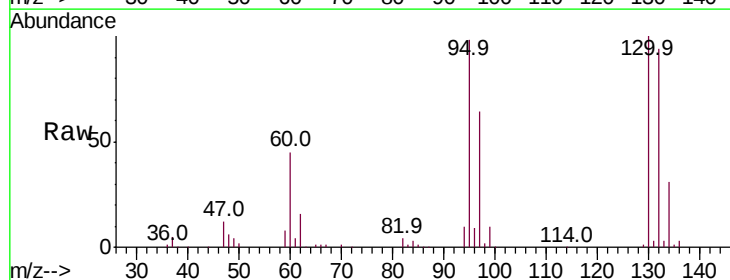
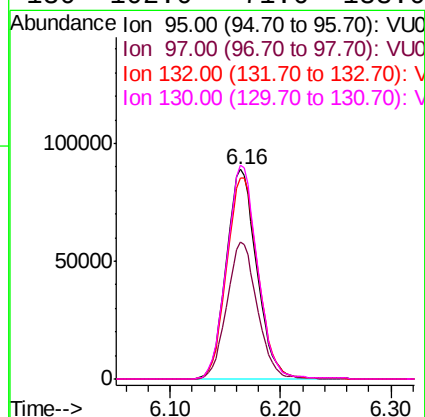
Tgt Ion: 78 Resp: 450156

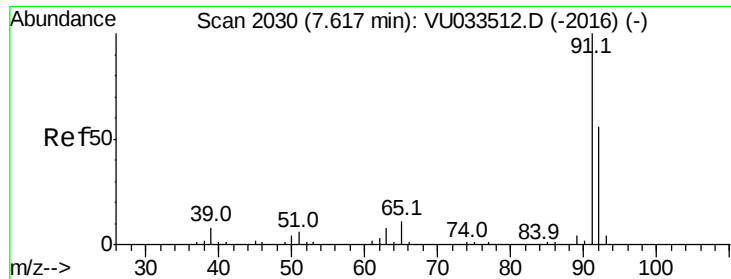


#34  
Trichloroethene  
Concen: 79.328 ug/L  
RT: 6.16 min Scan# 1578  
Delta R.T. -0.00 min  
Lab File: VU033521.D  
Acq: 31 Jul 2019 13:25

Tgt Ion: 95 Resp: 171235

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.1  | 44.7  | 83.1  |
| 132 | 96.2  | 66.8  | 124.0 |
| 130 | 102.0 | 71.6  | 133.0 |





#42

Toluene

Concen: 54.414 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033521.D

Acq: 31 Jul 2019 13:25

Instrument :

MSVOA\_U

ClientSampleId :

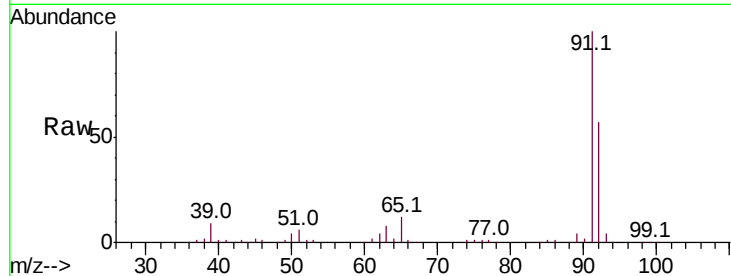
DB9D8MS

Tot Ion: 91 Resp: 478794

Ion Ratio Lower Upper

91 100

92 57.3 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU033512.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033512.D (-2016) (-)

7.62

300000

250000

200000

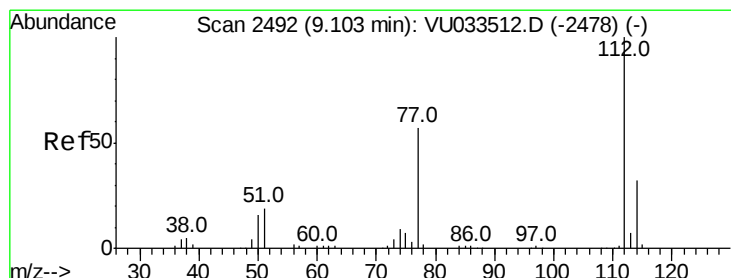
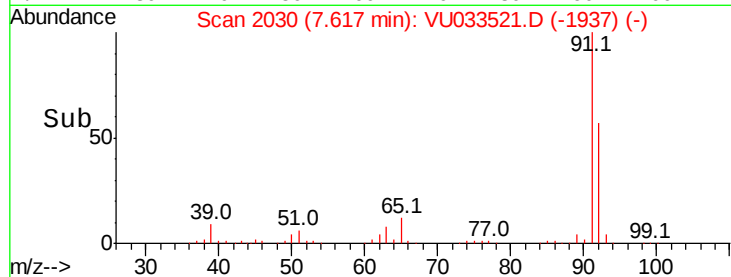
150000

100000

50000

0

Time-->



#51

Chlorobenzene

Concen: 52.666 ug/L

RT: 9.10 min Scan# 2492

Delta R.T. -0.00 min

Lab File: VU033521.D

Acq: 31 Jul 2019 13:25

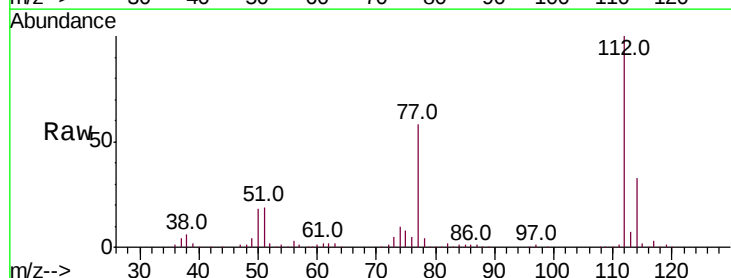
Tgt Ion: 112 Resp: 303396

Ion Ratio Lower Upper

112 100

114 32.9 22.3 41.5

77 57.5 45.6 68.4



Abundance Ion 112.00 (111.70 to 112.70): VU033512.D (-2478) (-)

Ion 114.00 (113.70 to 114.70): VU033512.D (-2478) (-)

Ion 77.00 (76.70 to 77.70): VU033512.D (-2478) (-)

9.10

250000

200000

150000

100000

50000

0

Time-->

