

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061019\  
 Data File : VU032559.D  
 Acq On : 10 Jun 2019 12:34  
 Operator : JC/SP  
 Sample : K3277-05MSD  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8B0MSD

Quant Time: Jun 11 05:18:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Jun 11 04:40:52 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 207796   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 193167   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 102405   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 64957    | 48.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.36%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 52861    | 48.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.58%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 130342   | 49.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.76%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 129763   | 115.02   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 115.02% |
| 24) Chloroform-d               | 4.64    | 84    | 118712   | 47.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.42%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 79999    | 50.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.02% |
| 32) Benzene-d6                 | 5.33    | 84    | 251318   | 50.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.24% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 78358    | 49.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.66%  |
| 41) Toluene-d8                 | 7.56    | 98    | 235153   | 49.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.90%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 39168    | 52.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 104.10% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 85795    | 112.48   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 112.48% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 114600   | 50.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 100.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 99489    | 50.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.44% |

## Target Compounds

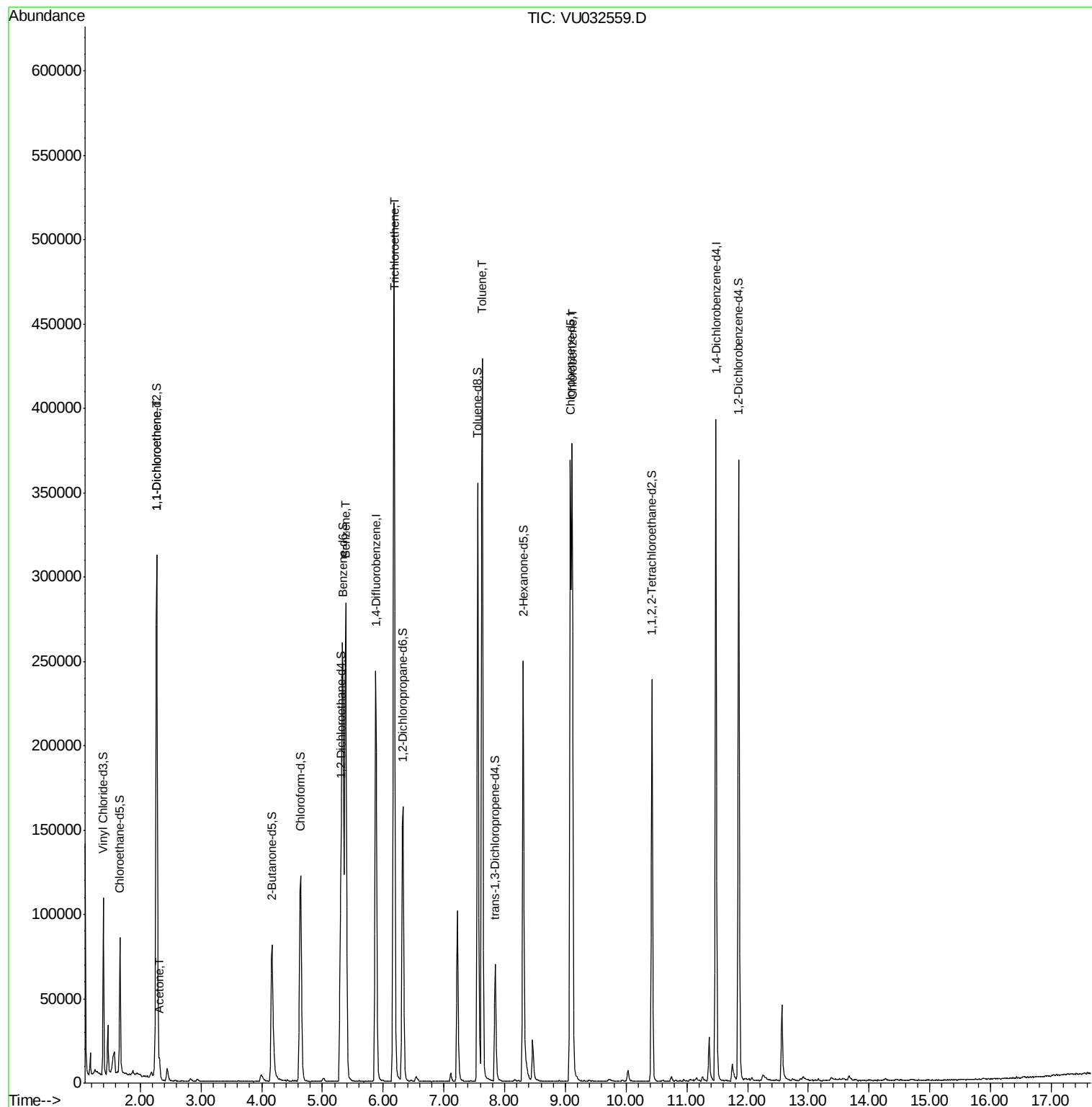
| Target Compounds       | R.T. | QIon | Response | Conc    | Units | Ovalue |
|------------------------|------|------|----------|---------|-------|--------|
| 12) 1,1-Dichloroethene | 2.28 | 96   | 61308    | 49.722  | ug/L  | 87     |
| 13) Acetone            | 2.32 | 43   | 11749    | 10.093  | ug/L  | 96     |
| 33) Benzene            | 5.38 | 78   | 276516   | 50.949  | ug/L  | 100    |
| 34) Trichloroethene    | 6.18 | 95   | 171839   | 116.376 | ug/L  | 97     |
| 42) Toluene            | 7.63 | 91   | 310227   | 52.193  | ug/L  | 99     |
| 51) Chlorobenzene      | 9.11 | 112  | 195116   | 50.951  | ug/L  | 100    |

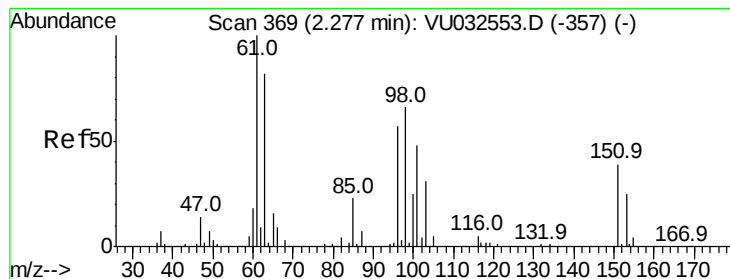
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Tue Jun 11 04:40:52 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 49.722 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU032559.D

Acq: 10 Jun 2019 12:34

Instrument :

MSVOA\_U

ClientSampleId :

DB8B0MSD

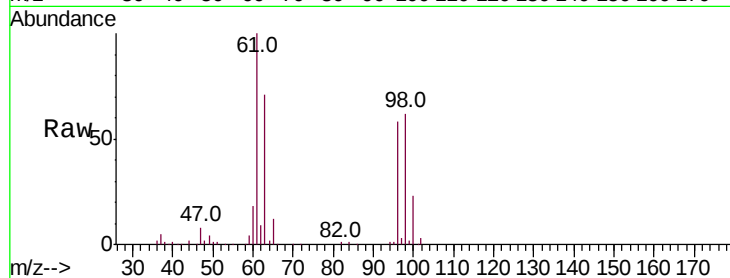
Tot Ion: 96 Resp: 61308

Ion Ratio Lower Upper

96 100

61 173.6 129.5 240.5

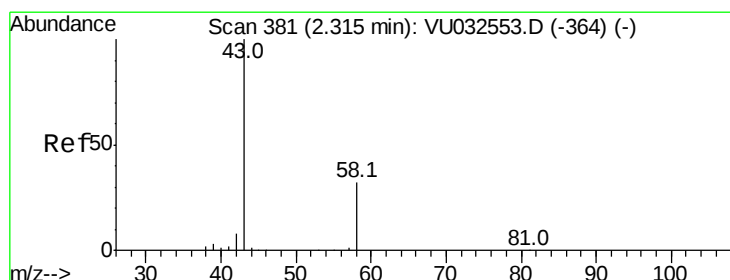
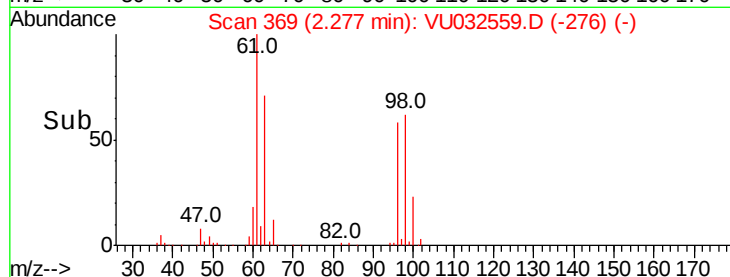
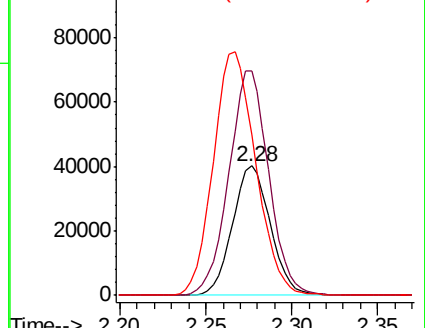
63 124.1 103.4 192.0



Abundance Ion 96.00 (95.70 to 96.70): VU032559.D (-276) (-)

Ion 61.00 (60.70 to 61.70): VU032559.D (-276) (-)

Ion 63.00 (62.70 to 63.70): VU032559.D (-276) (-)



#13

Acetone

Concen: 10.093 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU032559.D

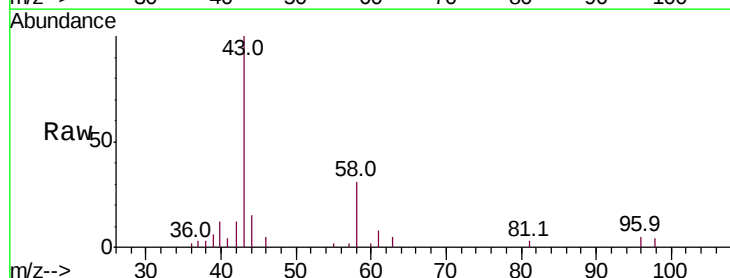
Acq: 10 Jun 2019 12:34

Tgt Ion: 43 Resp: 11749

Ion Ratio Lower Upper

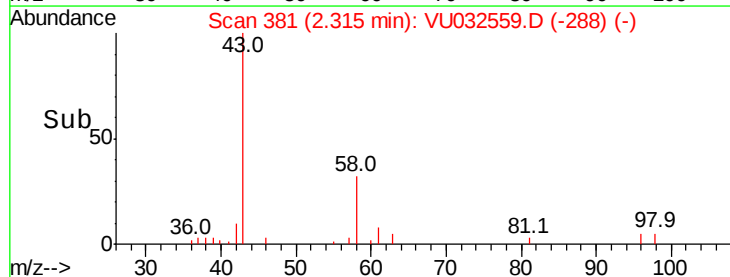
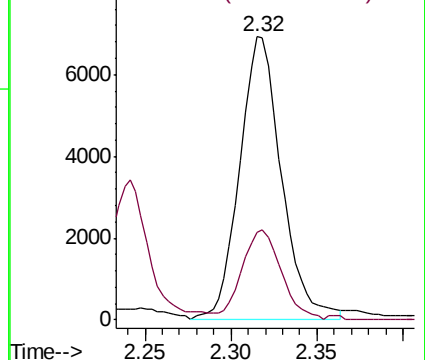
43 100

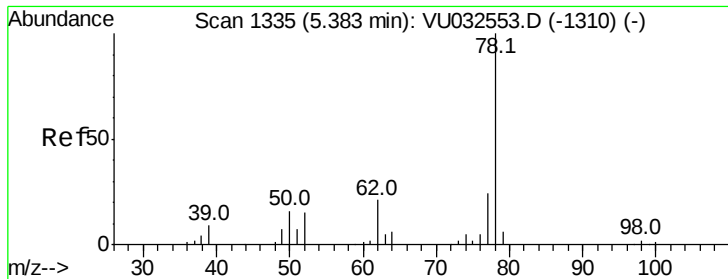
58 30.0 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU032559.D (-288) (-)

Ion 58.00 (57.70 to 58.70): VU032559.D (-288) (-)





#33

Benzene

Concen: 50.949 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU032559.D

Acq: 10 Jun 2019 12:34

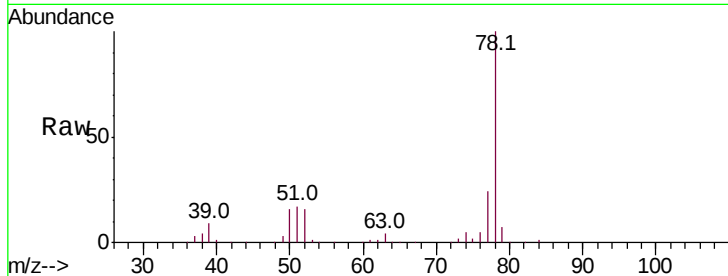
Instrument :

MSVOA\_U

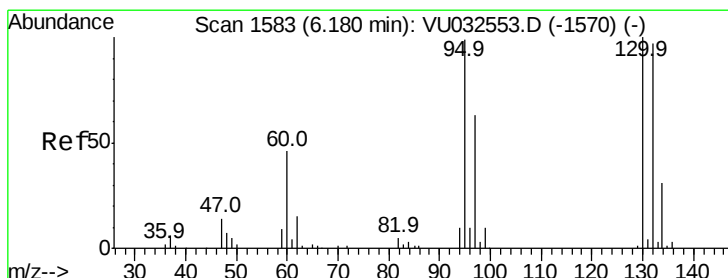
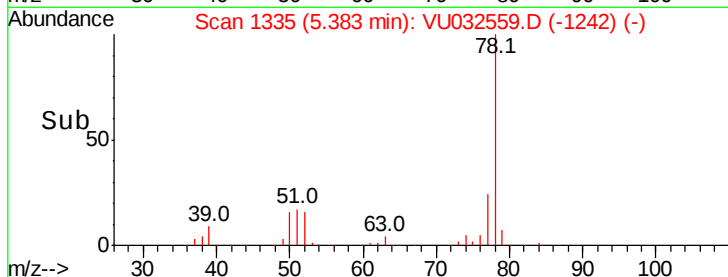
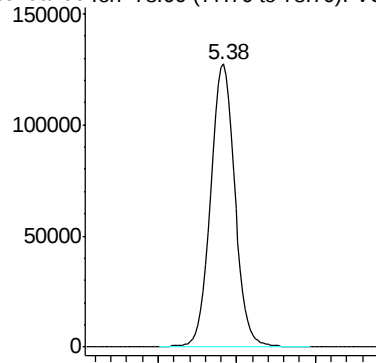
ClientSampleId :

DB8B0MSD

Tgt Ion: 78 Resp: 276516



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 116.376 ug/L

RT: 6.18 min Scan# 1582

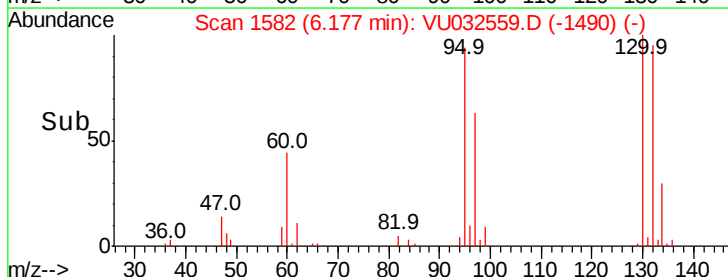
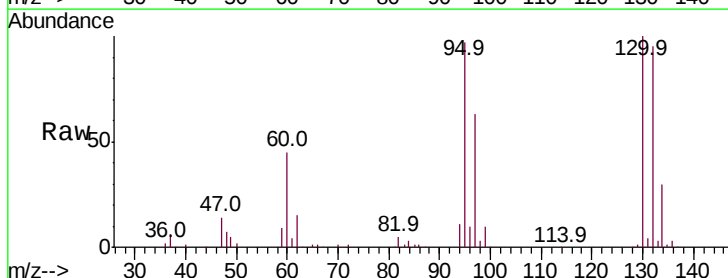
Delta R.T. -0.00 min

Lab File: VU032559.D

Acq: 10 Jun 2019 12:34

Tgt Ion: 95 Resp: 171839

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.5  | 45.8  | 85.2  |
| 132 | 97.5  | 71.0  | 131.8 |
| 130 | 102.7 | 73.4  | 136.2 |

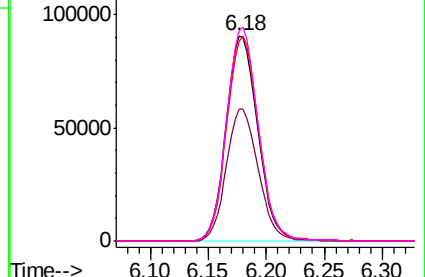


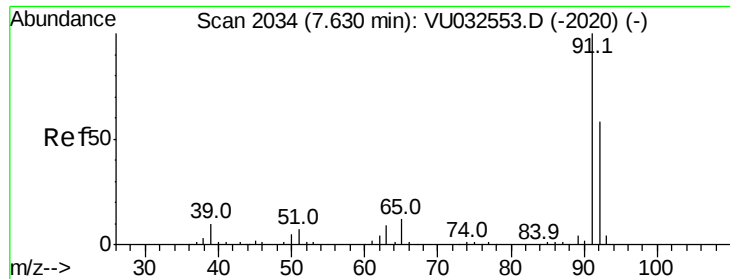
Abundance Ion 95.00 (94.70 to 95.70): VU0

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





#42

Toluene

Concen: 52.193 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU032559.D

Acq: 10 Jun 2019 12:34

Instrument :

MSVOA\_U

ClientSampleId :

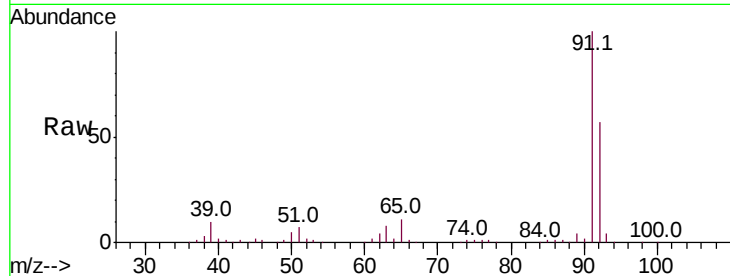
DB8B0MSD

Tot Ion: 91 Resp: 310227

Ion Ratio Lower Upper

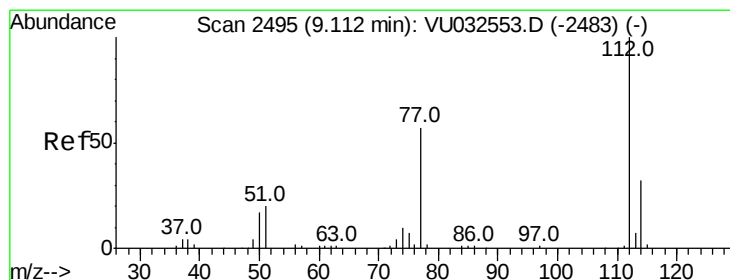
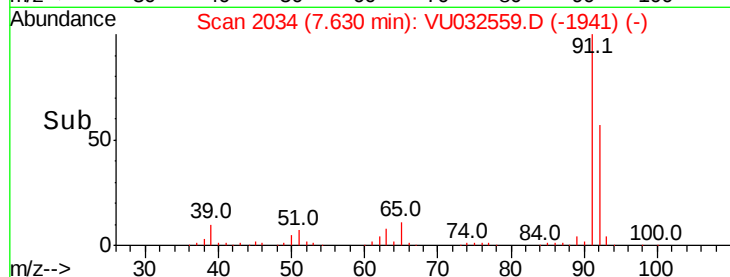
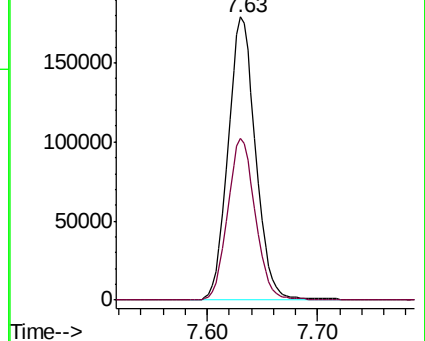
91 100

92 57.2 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU032559.D (-1941) (-)

Ion 92.00 (91.70 to 92.70): VU032559.D (-1941) (-)



#51

Chlorobenzene

Concen: 50.951 ug/L

RT: 9.11 min Scan# 2495

Delta R.T. -0.00 min

Lab File: VU032559.D

Acq: 10 Jun 2019 12:34

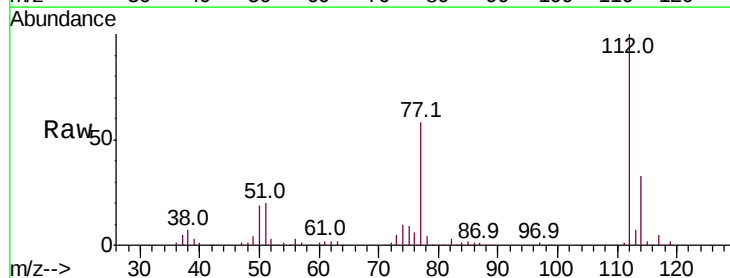
Tgt Ion: 112 Resp: 195116

Ion Ratio Lower Upper

112 100

114 32.7 22.6 42.0

77 57.7 46.1 69.1



Abundance Ion 112.00 (111.70 to 112.70): VU032559.D (-2402) (-)

Ion 114.00 (113.70 to 114.70): VU032559.D (-2402) (-)

Ion 77.00 (76.70 to 77.70): VU032559.D (-2402) (-)

