

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_R\DATA\VR082418\  
 Data File : VR025639.D  
 Acq On : 24 Aug 2018 17:29  
 Operator : SY/MD  
 Sample : J4643-10MSD  
 Misc : 25mL/MSVOA\_R/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 H0K17MSD

Quant Time: Aug 25 02:11:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR082118WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Aug 24 23:05:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 491736   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 424399   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 125241   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.16   | 65    | 120390   | 3.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 75.20%  |
| 7) Chloroethane-d5             | 2.63   | 69    | 115150   | 4.17     | ug/L | 0.01    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 83.40%  |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 313520   | 3.96     | ug/L | 0.01    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 79.20%  |
| 20) 2-Butanone-d5              | 6.60   | 46    | 148204   | 60.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 121.52% |
| 24) Chloroform-d               | 7.21   | 84    | 235059   | 4.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.60%  |
| 26) 1,2-Dichloroethane-d4      | 7.89   | 65    | 88311    | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.40%  |
| 32) Benzene-d6                 | 7.86   | 84    | 549175   | 3.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 79.20%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 158902   | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.80%  |
| 41) Toluene-d8                 | 9.97   | 98    | 495944   | 3.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 79.00%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 33746    | 4.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 80.80%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 157054   | 57.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 115.00% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 67530    | 4.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 82.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 109707   | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 109.60% |

## Target Compounds

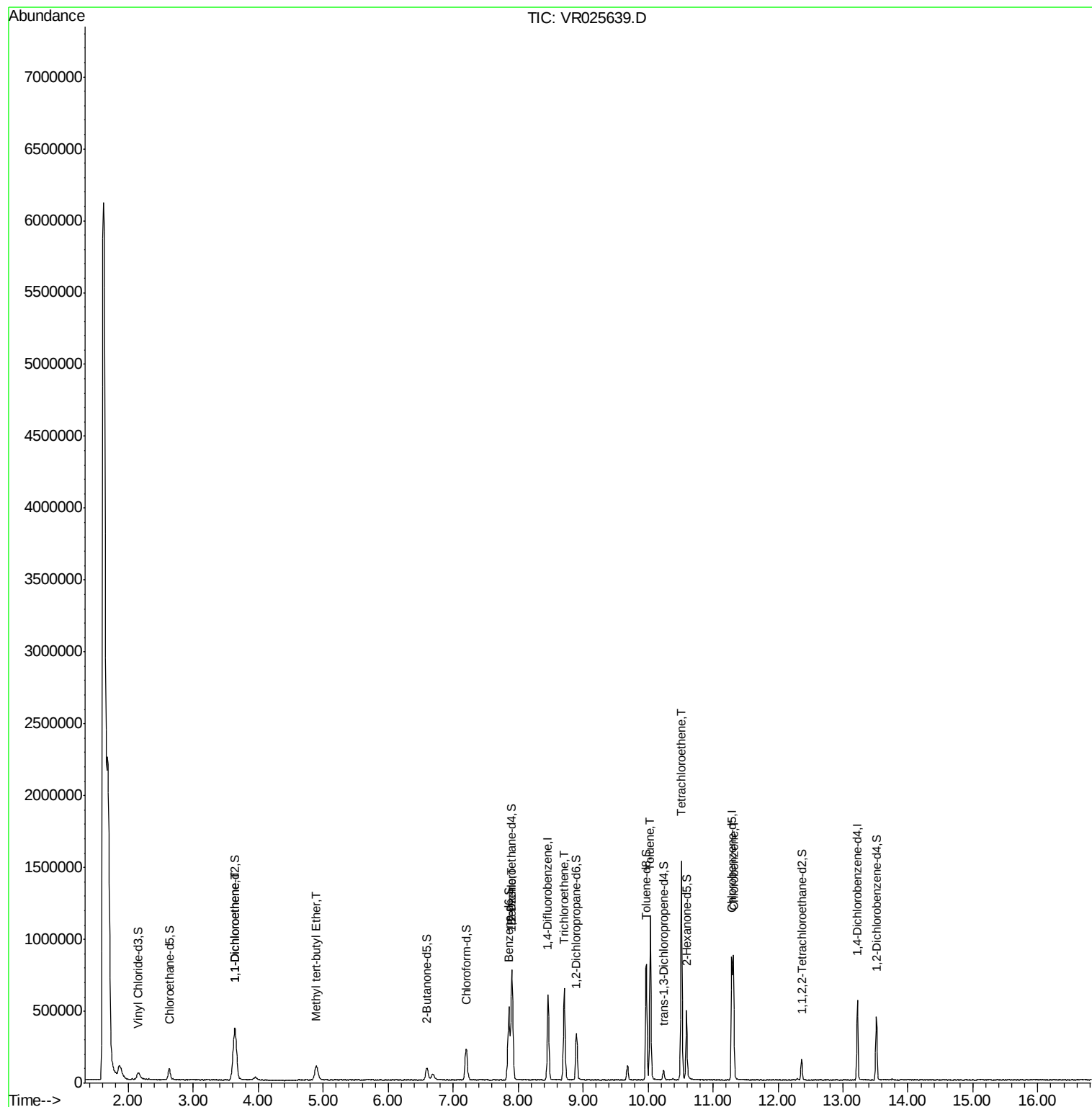
|                             |       |     |        |             | Qvalue |
|-----------------------------|-------|-----|--------|-------------|--------|
| 12) 1,1-Dichloroethene      | 3.65  | 96  | 162757 | 4.214 ug/L  | 85     |
| 17) Methyl tert-butyl Ether | 4.89  | 73  | 150304 | 3.796 ug/L  | 100    |
| 33) Benzene                 | 7.91  | 78  | 695499 | 4.487 ug/L  | 100    |
| 34) Trichloroethene         | 8.71  | 95  | 217435 | 6.125 ug/L  | 98     |
| 42) Toluene                 | 10.03 | 91  | 764254 | 5.025 ug/L  | 93     |
| 47) Tetrachloroethene       | 10.52 | 164 | 319772 | 11.779 ug/L | 98     |
| 51) Chlorobenzene           | 11.31 | 112 | 434931 | 4.594 ug/L  | 99     |

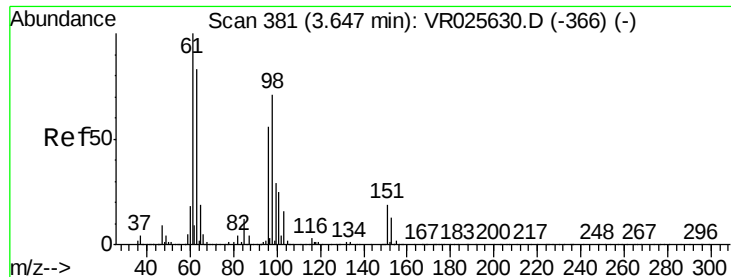
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 24 23:05:03 2018  
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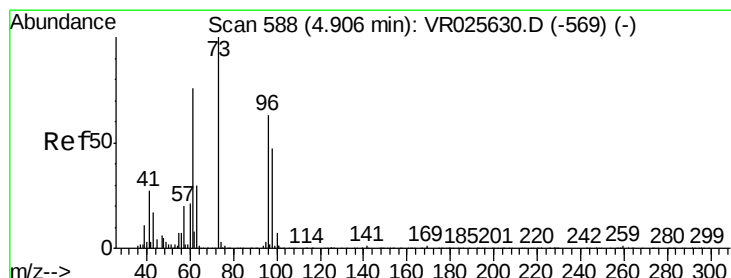
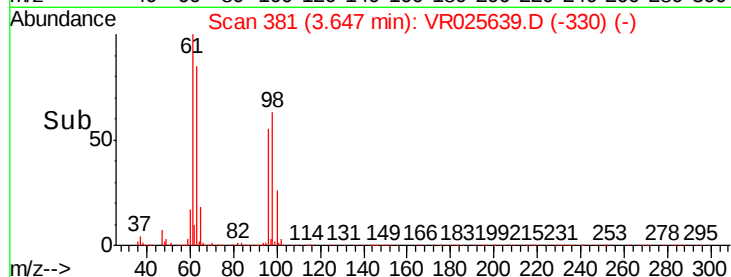
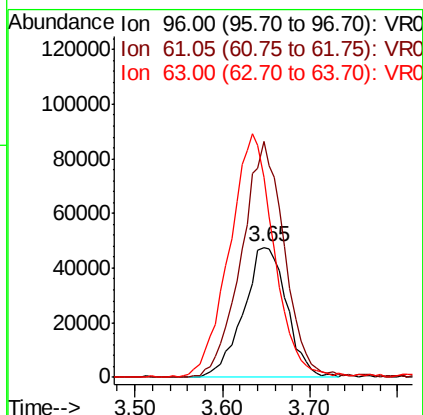
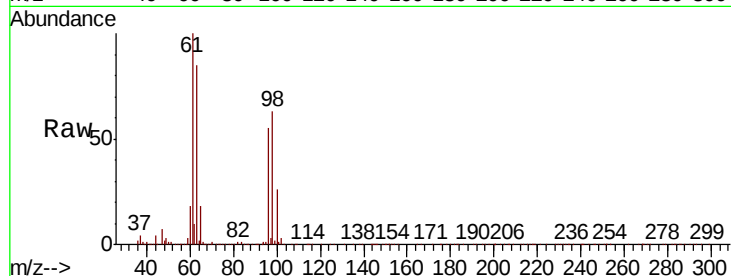




#12  
 1,1-Dichloroethene  
 Concen: 4.214 ug/L  
 RT: 3.65 min Scan# 381  
 Delta R.T. 0.01 min  
 Lab File: VR025639.D  
 Acq: 24 Aug 2018 17:29

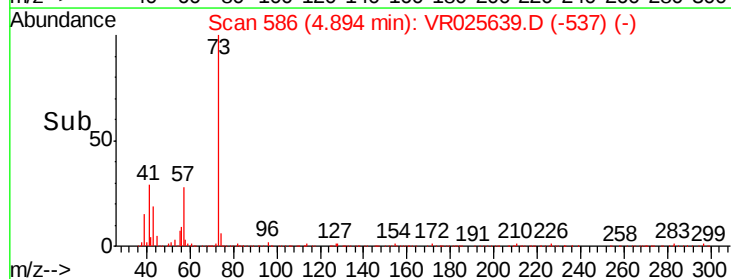
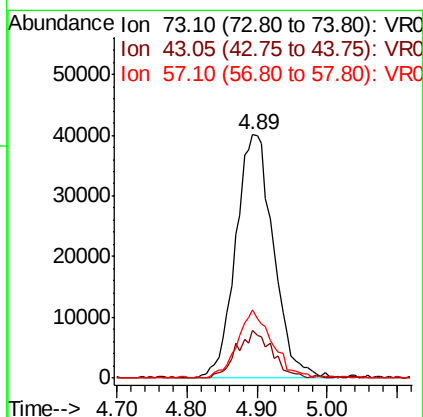
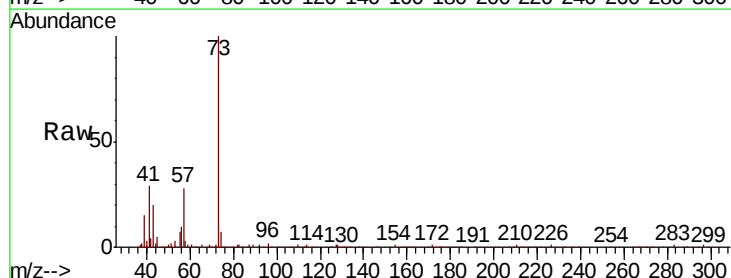
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 H0K17MSD

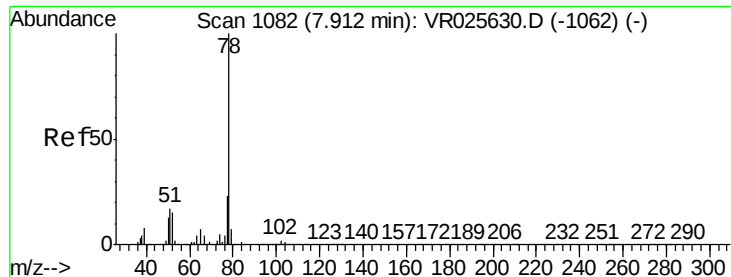
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 181.5 | 119.8 | 222.6 |
| 63      | 154.5 | 131.1 | 243.5 |



#17  
 Methyl tert-butyl Ether  
 Concen: 3.796 ug/L  
 RT: 4.89 min Scan# 586  
 Delta R.T. 0.00 min  
 Lab File: VR025639.D  
 Acq: 24 Aug 2018 17:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 18.2  | 14.8  | 22.2  |
| 57      | 25.0  | 19.9  | 29.9  |





#33

Benzene

Concen: 4.487 ug/L

RT: 7.91 min Scan# 1081

Delta R.T. 0.00 min

Lab File: VR025639.D

Acq: 24 Aug 2018 17:29

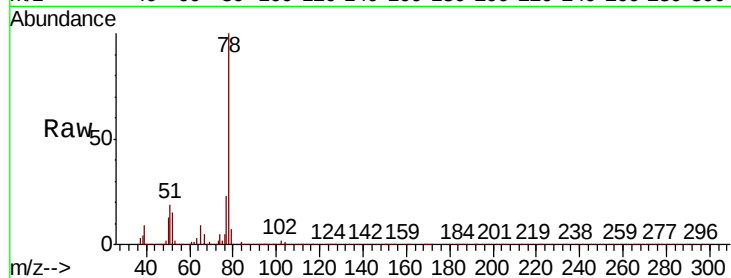
Instrument :

MSVOA\_R

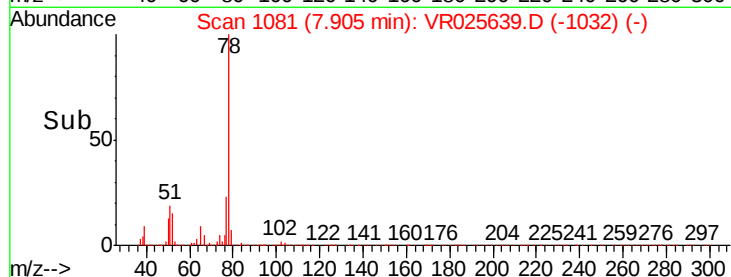
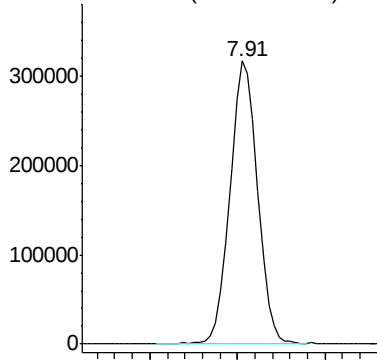
ClientSampleId :

H0K17MSD

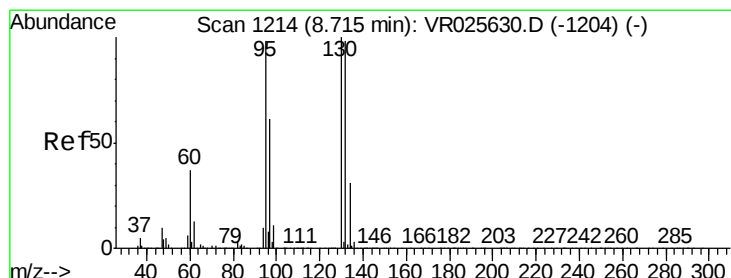
Tgt Ion: 78 Resp: 695499



Abundance Ion 78.10 (77.80 to 78.80): VR0



Time-->



#34

Trichloroethene

Concen: 6.125 ug/L

RT: 8.71 min Scan# 1214

Delta R.T. 0.01 min

Lab File: VR025639.D

Acq: 24 Aug 2018 17:29

Tgt Ion: 95 Resp: 217435

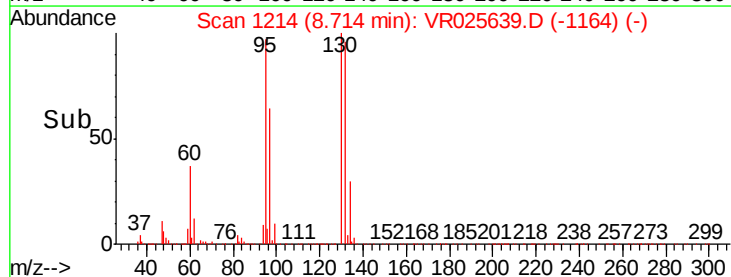
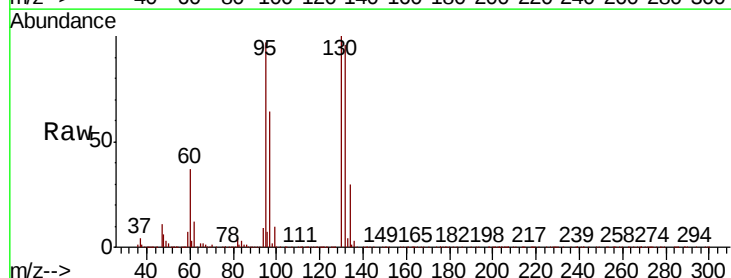
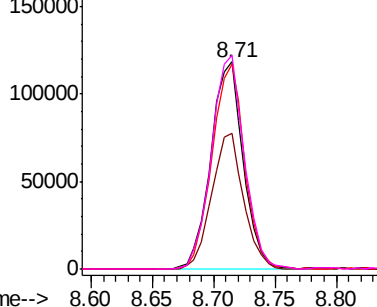
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.5  | 45.7  | 84.9  |
| 132 | 99.0  | 66.6  | 123.6 |
| 130 | 103.0 | 72.2  | 134.0 |

Abundance Ion 95.00 (94.70 to 95.70): VR0

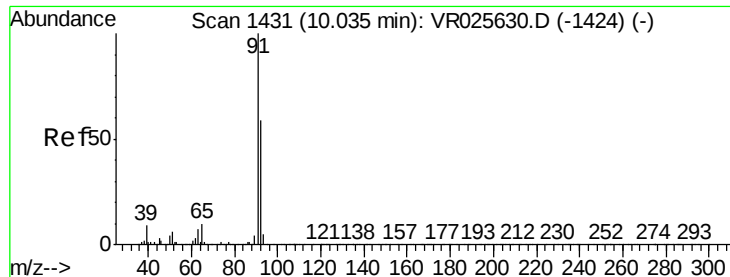
Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



Time-->



#42

Toluene

Concen: 5.025 ug/L

RT: 10.03 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VR025639.D

Acq: 24 Aug 2018 17:29

Instrument :

MSVOA\_R

ClientSampled :

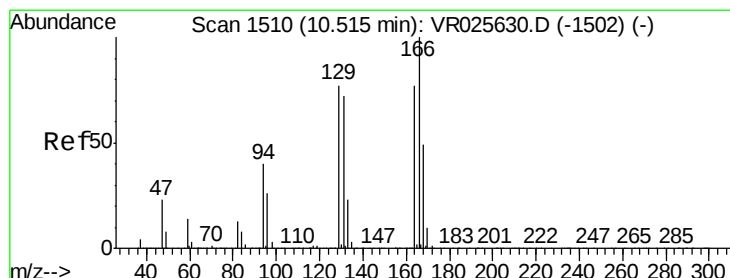
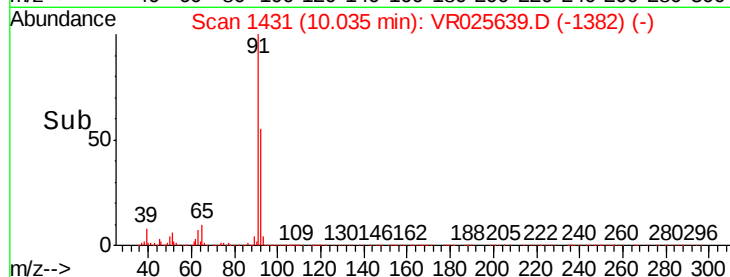
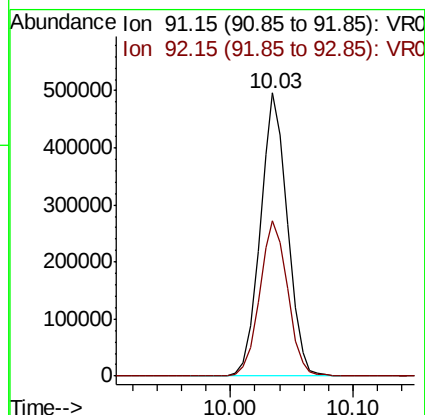
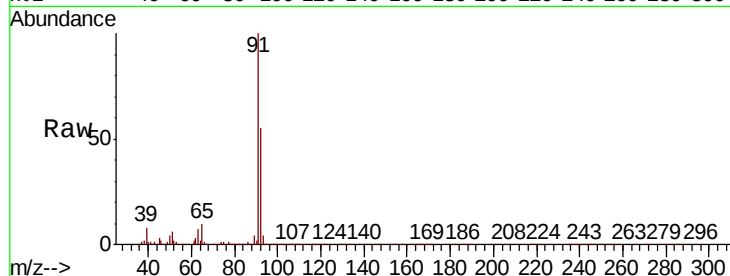
H0K17MSD

Tgt Ion: 91 Resp: 764254

Ion Ratio Lower Upper

91 100

92 54.9 42.0 78.0



#47

Tetrachloroethene

Concen: 11.779 ug/L

RT: 10.52 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VR025639.D

Acq: 24 Aug 2018 17:29

Tgt Ion: 164 Resp: 319772

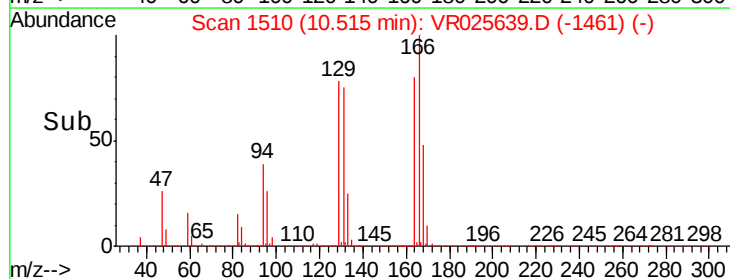
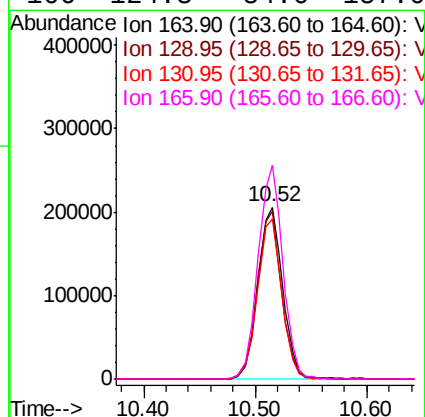
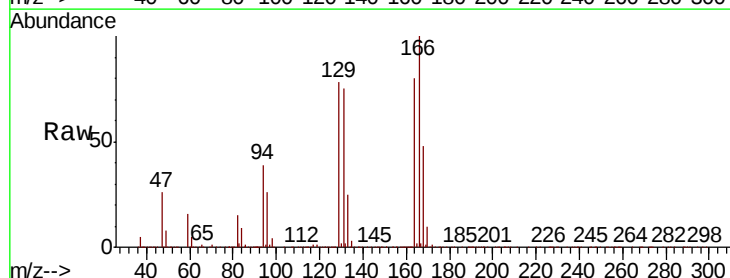
Ion Ratio Lower Upper

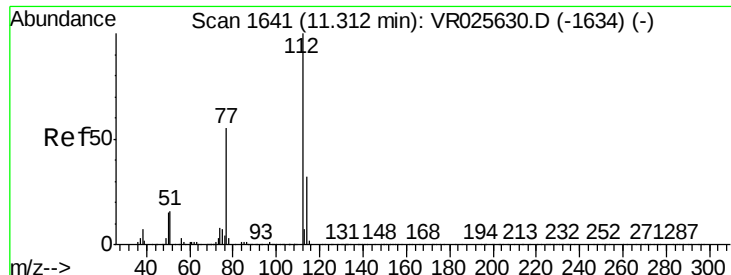
164 100

129 97.4 68.7 127.5

131 92.9 66.4 123.4

166 124.3 84.6 157.0

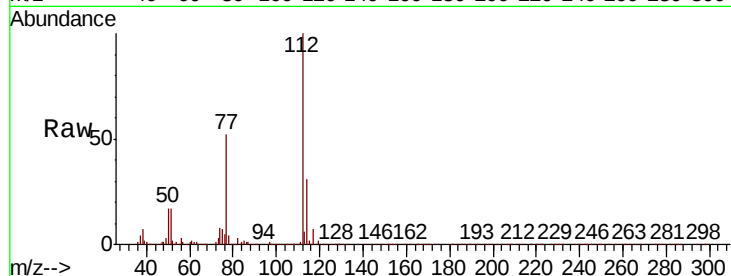




#51  
 Chlorobenzene  
 Concen: 4.594 ug/L  
 RT: 11.31 min Scan# 1641  
 Delta R.T. 0.00 min  
 Lab File: VR025639.D  
 Acq: 24 Aug 2018 17:29

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 H0K17MSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 434931 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 114      | 31.1  | 21.8  | 40.4   |
| 77       | 52.3  | 43.0  | 64.4   |



Abundance Ion 112.10 (111.80 to 112.80): V  
 Ion 114.05 (113.75 to 114.75): V  
 Ion 77.10 (76.80 to 77.80): VR0

