

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101518\  
 Data File : VR026088.D  
 Acq On : 16 Oct 2018 00:02  
 Operator : SY/MD  
 Sample : J5379-06  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 H42A6

Quant Time: Oct 16 09:01:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR101518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 16 08:21:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 529762   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 461178   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.23 | 152  | 146084   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.15   | 65    | 238692   | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 103.00% |
| 7) Chloroethane-d5             | 2.63   | 69    | 210318   | 5.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 105.60% |
| 11) 1,1-Dichloroethene-d2      | 3.61   | 63    | 425035   | 3.73     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 74.60%  |
| 20) 2-Butanone-d5              | 6.59   | 46    | 214275   | 56.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 112.58% |
| 24) Chloroform-d               | 7.20   | 84    | 348826   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.60%  |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 151008   | 4.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.60%  |
| 32) Benzene-d6                 | 7.85   | 84    | 704770   | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.20%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 194634   | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.80% |
| 41) Toluene-d8                 | 9.97   | 98    | 649045   | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.80%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 43487    | 4.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.80%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 168442   | 58.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 116.26% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 74399    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.52  | 152   | 123599   | 5.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 107.00% |

## Target Compounds

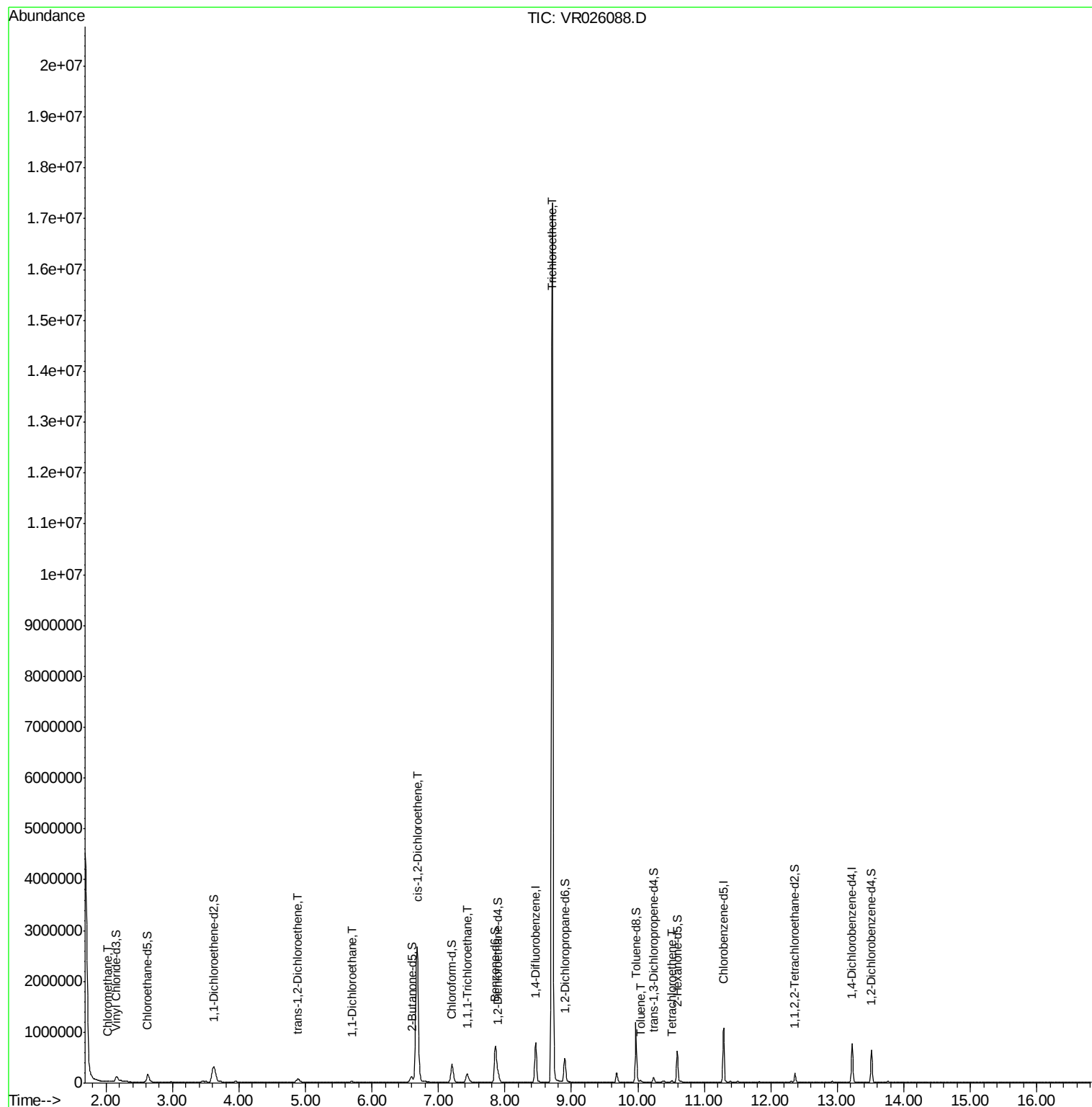
|                              |       |     |         |               | Ovalue |
|------------------------------|-------|-----|---------|---------------|--------|
| 3) Chloromethane             | 2.02  | 50  | 14752   | 0.261 ug/L    | 95     |
| 18) trans-1,2-Dichloroethene | 4.89  | 96  | 34113   | 0.876 ug/L    | 96     |
| 19) 1,1-Dichloroethane       | 5.69  | 63  | 17156   | 0.235 ug/L    | 91     |
| 22) cis-1,2-Dichloroethene   | 6.68  | 96  | 1485756 | 40.317 ug/L # | 100    |
| 29) 1,1,1-Trichloroethane    | 7.43  | 97  | 140598  | 2.231 ug/L    | 98     |
| 34) Trichloroethene          | 8.71  | 95  | 5175193 | 116.844 ug/L  | 93     |
| 42) Toluene                  | 10.04 | 91  | 17342   | 0.095 ug/L    | 90     |
| 47) Tetrachloroethene        | 10.51 | 164 | 5633    | 0.178 ug/L    | 92     |

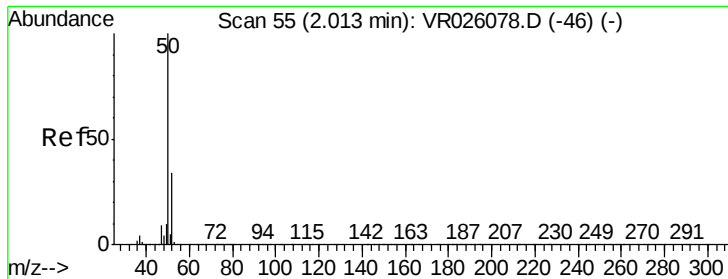
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 16 08:21:47 2018  
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#3

Chloromethane

Concen: 0.261 ug/L

RT: 2.02 min Scan# 56

Delta R.T. 0.01 min

Lab File: VR026088.D

Acq: 16 Oct 2018 00:02

Instrument :

MSVOA\_R

ClientSampleId :

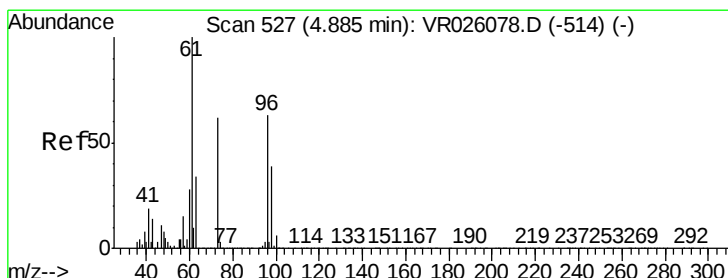
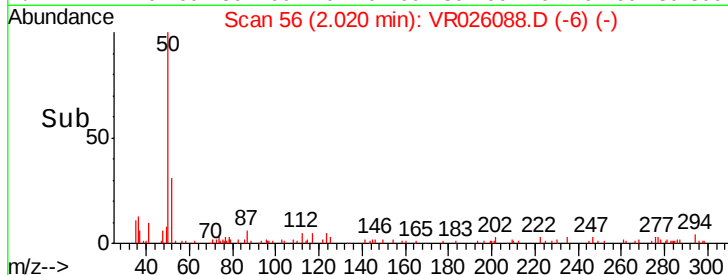
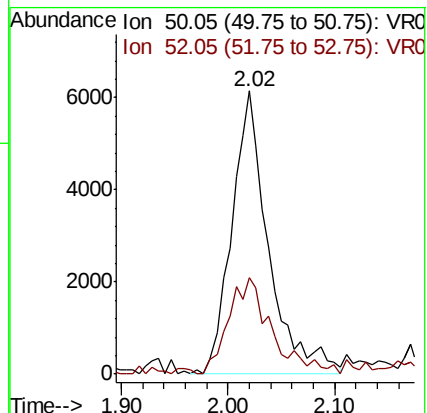
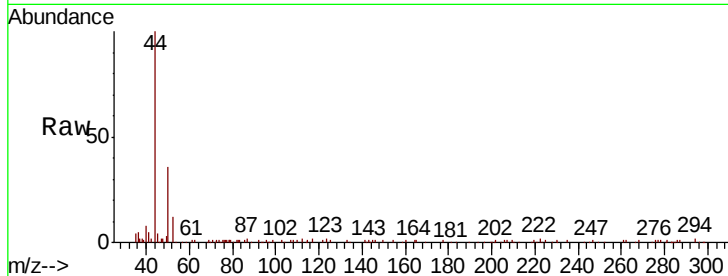
H42A6

Tot Ion: 50 Resp: 14752

Ion Ratio Lower Upper

50 100

52 34.1 22.0 40.8



#18

trans-1,2-Dichloroethene

Concen: 0.876 ug/L

RT: 4.89 min Scan# 527

Delta R.T. 0.00 min

Lab File: VR026088.D

Acq: 16 Oct 2018 00:02

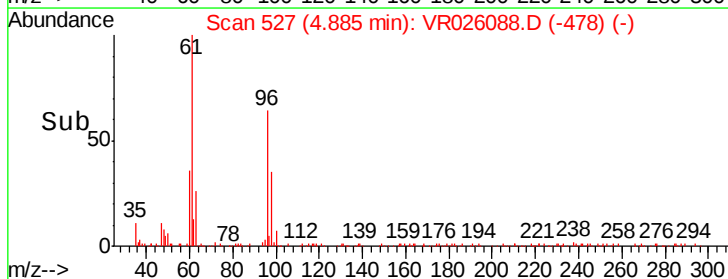
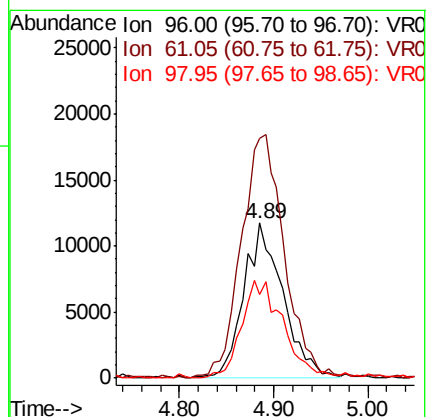
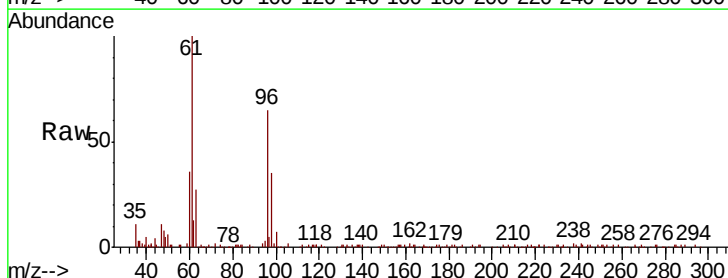
Tgt Ion: 96 Resp: 34113

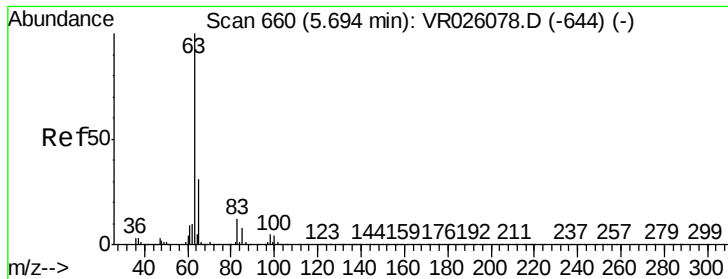
Ion Ratio Lower Upper

96 100

61 154.8 111.4 206.8

98 54.1 41.4 77.0

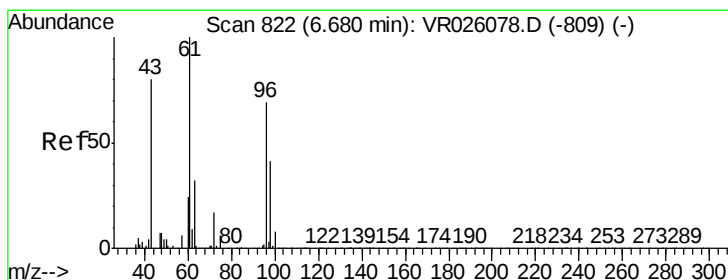
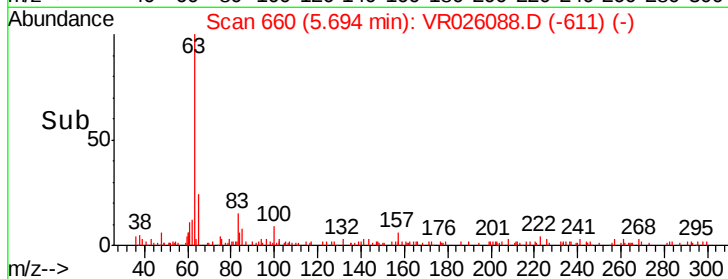
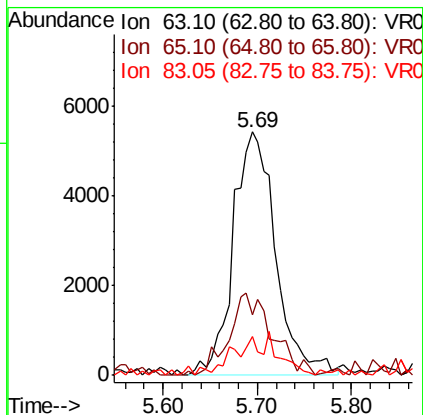
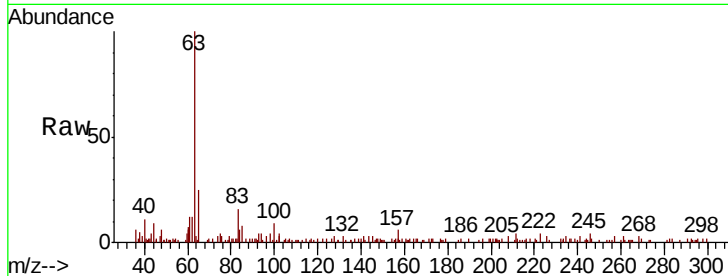




#19  
 1,1-Dichloroethane  
 Concen: 0.235 ug/L  
 RT: 5.69 min Scan# 660  
 Delta R.T. 0.00 min  
 Lab File: VR026088.D  
 Acq: 16 Oct 2018 00:02

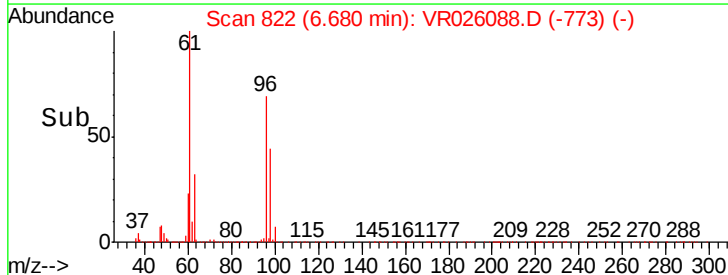
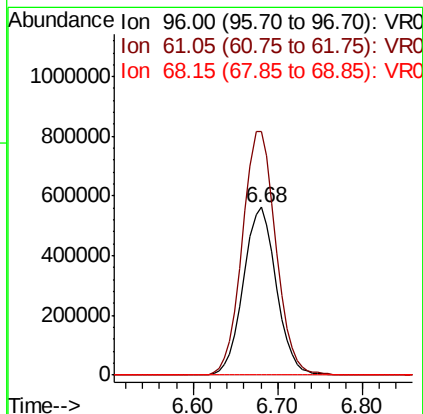
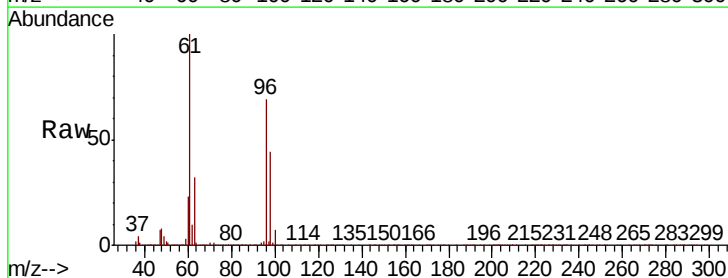
Instrument :  
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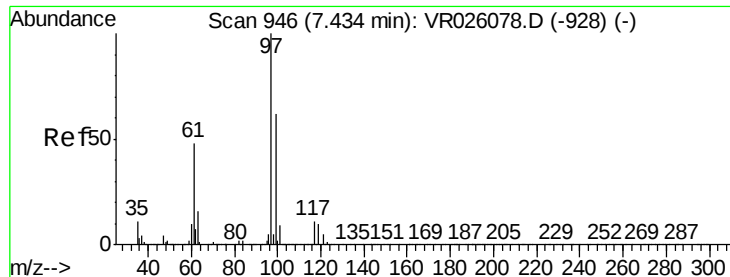
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 24.5  | 21.2  | 39.4  |
| 83      | 15.7  | 9.2   | 17.2  |



#22  
 cis-1,2-Dichloroethene  
 Concen: 40.317 ug/L  
 RT: 6.68 min Scan# 822  
 Delta R.T. 0.00 min  
 Lab File: VR026088.D  
 Acq: 16 Oct 2018 00:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 145.1 | 101.8 | 189.0 |
| 68      | 0.0   | 0.1   | 0.3#  |

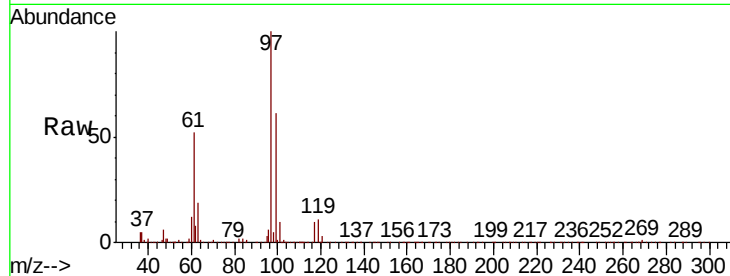




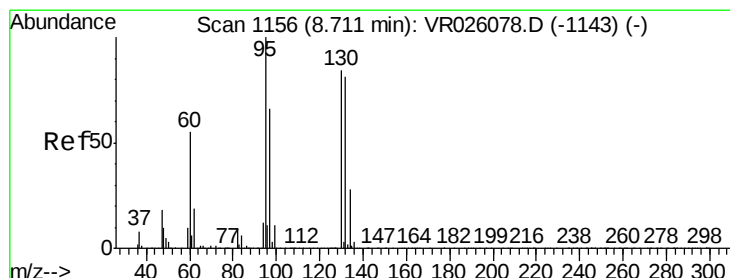
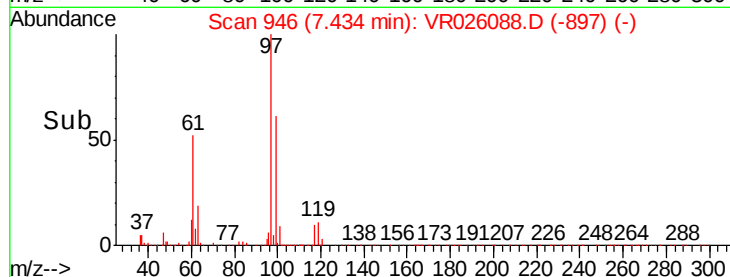
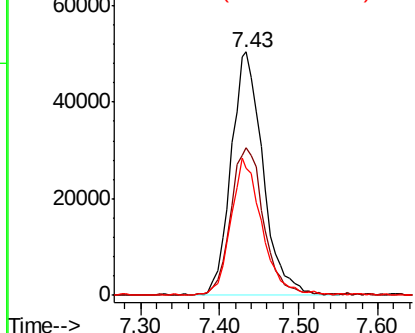
#29  
1,1,1-Trichloroethane  
Concen: 2.231 ug/L  
RT: 7.43 min Scan# 946  
Delta R.T. 0.00 min  
Lab File: VR026088.D  
Acq: 16 Oct 2018 00:02

Instrument :  
MSVOA\_R  
ClientSampleId :  
H42A6

Tot Ion: 97 Resp: 140598  
Ion Ratio Lower Upper  
97 100  
99 63.3 51.1 76.7  
61 54.9 42.1 63.1

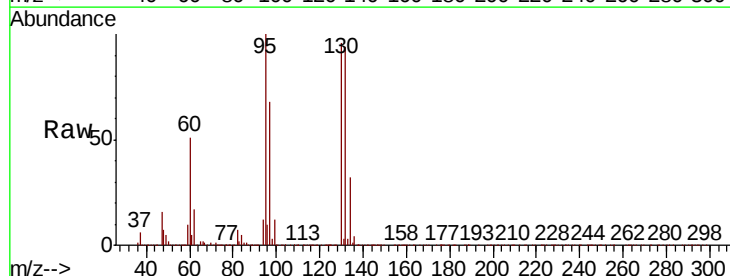


Abundance Ion 96.95 (96.65 to 97.65): VR0  
Ion 99.05 (98.75 to 99.75): VR0  
Ion 61.05 (60.75 to 61.75): VR0

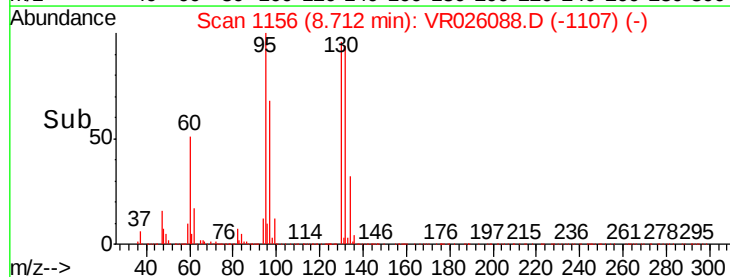
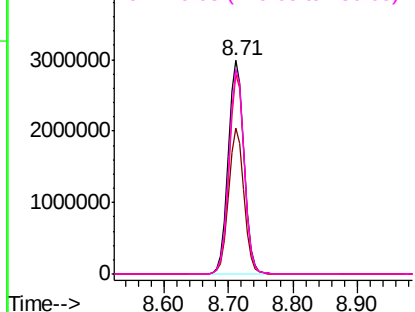


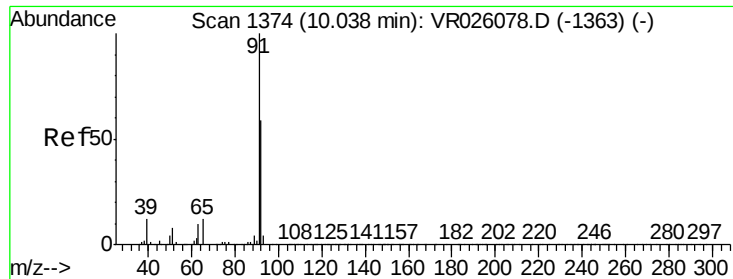
#34  
Trichloroethene  
Concen: 116.844 ug/L  
RT: 8.71 min Scan# 1156  
Delta R.T. 0.00 min  
Lab File: VR026088.D  
Acq: 16 Oct 2018 00:02

Tgt Ion: 95 Resp: 5175193  
Ion Ratio Lower Upper  
95 100  
97 68.1 45.7 84.9  
132 93.5 58.3 108.3  
130 96.0 64.0 119.0



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





#42

Toluene

Concen: 0.095 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. 0.00 min

Lab File: VR026088.D

Acq: 16 Oct 2018 00:02

Instrument :

MSVOA\_R

ClientSampleId :

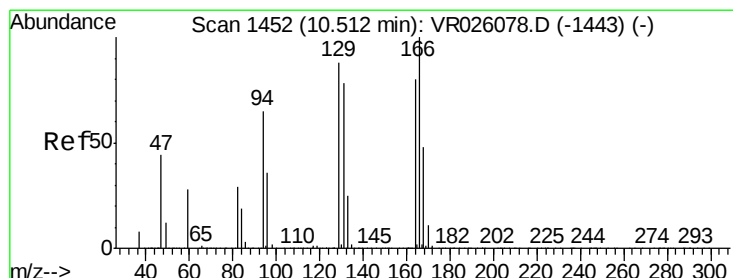
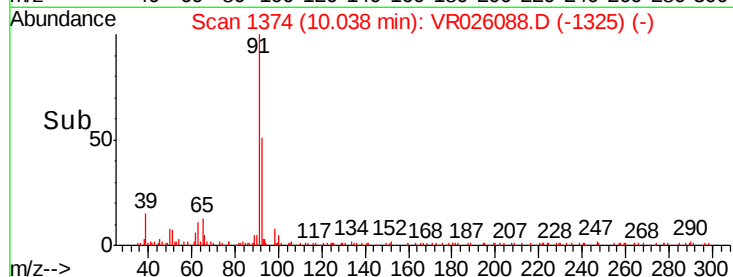
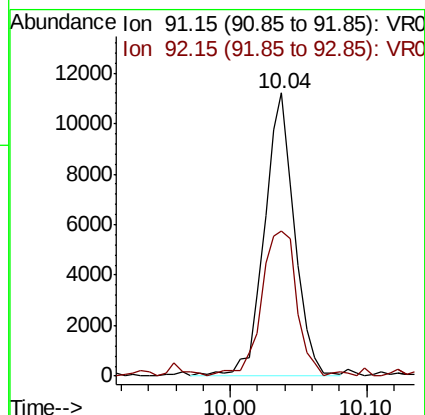
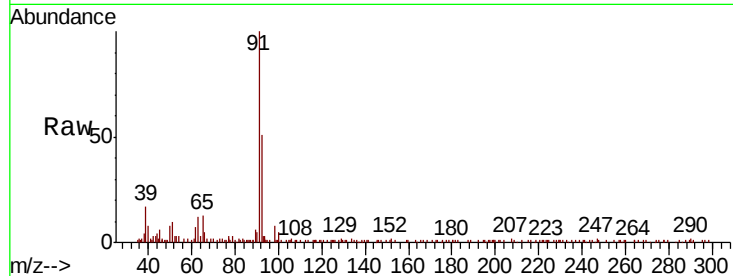
H42A6

Tot Ion: 91 Resp: 17342

Ion Ratio Lower Upper

91 100

92 51.1 40.8 75.8



#47

Tetrachloroethene

Concen: 0.178 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VR026088.D

Acq: 16 Oct 2018 00:02

Tgt Ion: 164 Resp: 5633

Ion Ratio Lower Upper

164 100

129 101.0 70.3 130.5

131 85.4 67.3 125.1

166 111.0 86.1 159.9

