

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_R\DATA\VR102618\  
 Data File : VR026156.D  
 Acq On : 26 Oct 2018 13:39  
 Operator : SY/MD  
 Sample : VR1026WBL01  
 Misc : 25mL/MSVOA\_R/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VBLK89

Quant Time: Oct 26 23:27:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR101518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Oct 26 23:25:00 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 559153   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 477110   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.23 | 152  | 145954   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.17   | 65    | 216265   | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.40%  |
| 7) Chloroethane-d5             | 2.64   | 69    | 180597   | 4.29     | ug/L | 0.02    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 85.80%  |
| 11) 1,1-Dichloroethene-d2      | 3.64   | 63    | 386544   | 3.22     | ug/L | 0.03    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 64.40%  |
| 20) 2-Butanone-d5              | 6.59   | 46    | 203215   | 50.58    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.16% |
| 24) Chloroform-d               | 7.20   | 84    | 370666   | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.40%  |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 157764   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.60%  |
| 32) Benzene-d6                 | 7.86   | 84    | 751795   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.00%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 200973   | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.60% |
| 41) Toluene-d8                 | 9.97   | 98    | 715305   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.80%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 48191    | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.80%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 158093   | 52.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 105.46% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 75722    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 97.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.52  | 152   | 129501   | 5.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 112.20% |

## Target Compounds

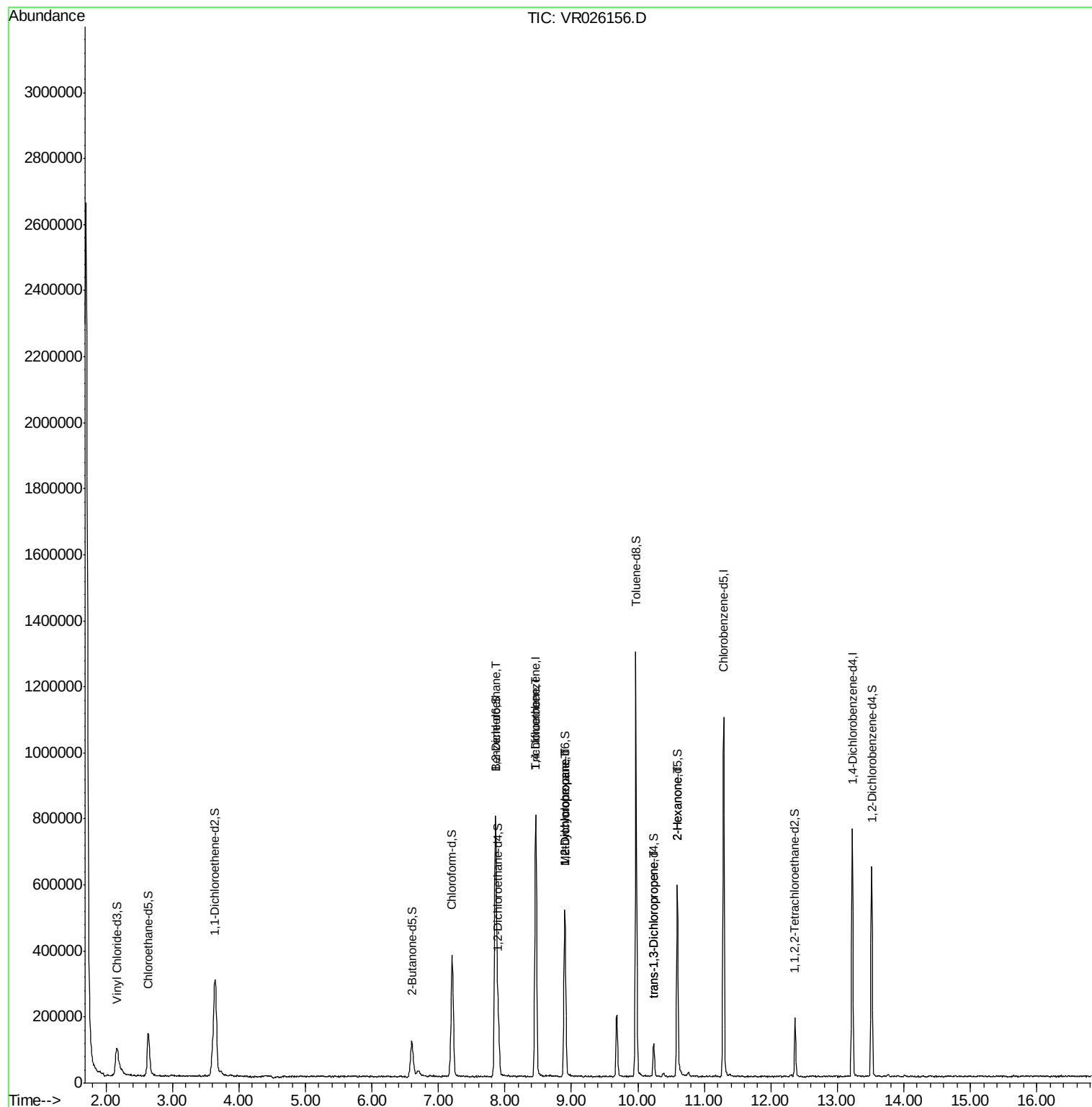
| Target Compounds              | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|-------|------|----------|-------|--------|--------|
| 27) 1,2-Dichloroethane        | 7.85  | 62   | 5287     | 0.143 | ug/L   | 98     |
| 34) Trichloroethene           | 8.46  | 95   | 18246    | 0.398 | ug/L # | 10     |
| 35) Methylcyclohexane         | 8.90  | 83   | 47221    | 0.692 | ug/L # | 19     |
| 37) 1,2-Dichloropropane       | 8.90  | 63   | 26042    | 0.689 | ug/L # | 92     |
| 44) trans-1,3-Dichloropropene | 10.24 | 75   | 3285     | 0.109 | ug/L   | 95     |
| 48) 2-Hexanone                | 10.59 | 43   | 24627    | 3.269 | ug/L # | 71     |

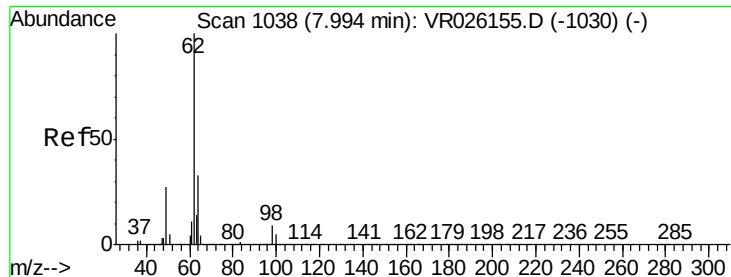
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 26 23:25:00 2018  
Response via : Initial Calibration





#27

1,2-Dichloroethane

Concen: 0.143 ug/L

RT: 7.85 min Scan# 1015

Delta R.T. -0.14 min

Lab File: VR026156.D

Acq: 26 Oct 2018 13:39

Instrument :

MSVOA\_R

ClientSampleId :

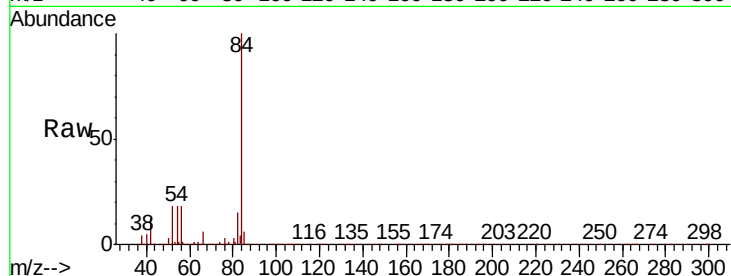
VBLK89

Tgt Ion: 62 Resp: 5287

Ion Ratio Lower Upper

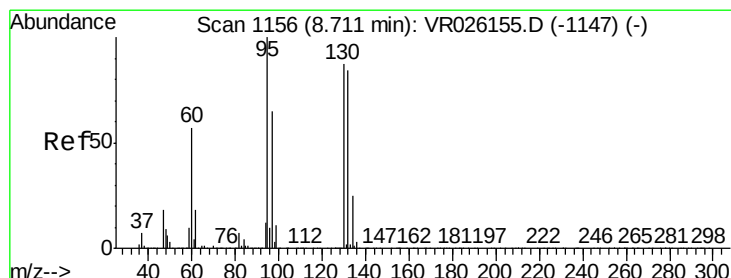
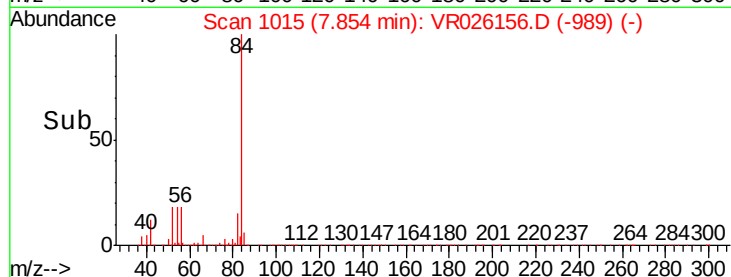
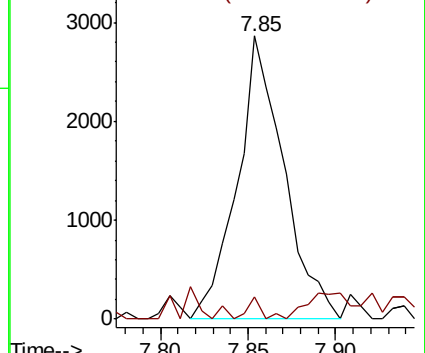
62 100

98 7.8 5.6 8.4



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 98.05 (97.75 to 98.75): VR0



#34

Trichloroethene

Concen: 0.398 ug/L

RT: 8.46 min Scan# 1115

Delta R.T. -0.25 min

Lab File: VR026156.D

Acq: 26 Oct 2018 13:39

Tgt Ion: 95 Resp: 18246

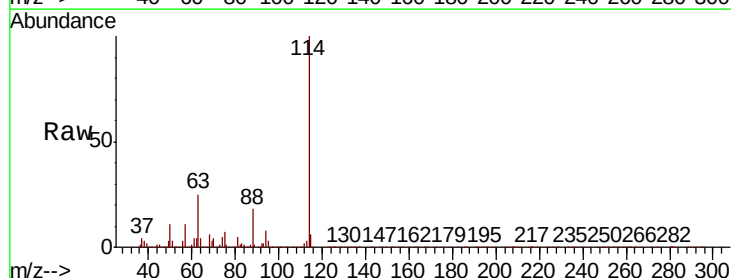
Ion Ratio Lower Upper

95 100

97 1.7 45.7 84.9#

132 1.8 58.3 108.3#

130 0.7 64.0 119.0#

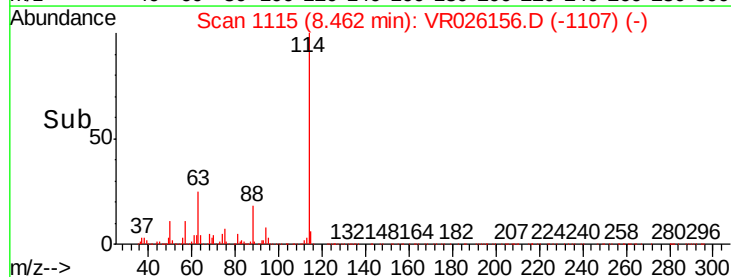
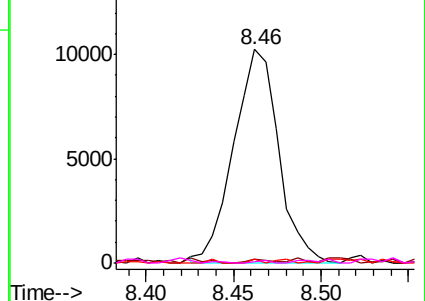


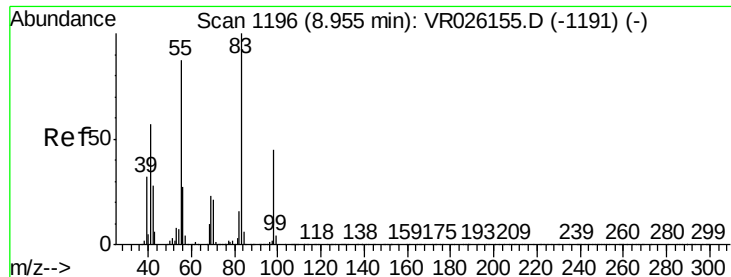
Abundance Ion 95.00 (94.70 to 95.70): VR0

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

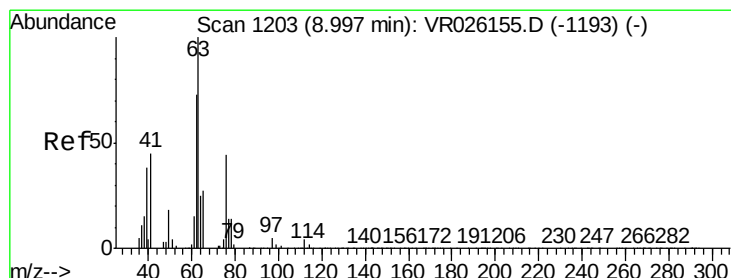
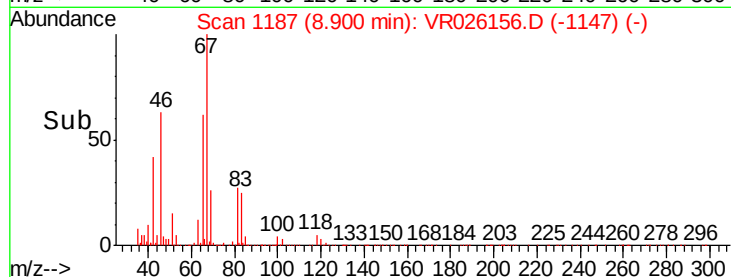
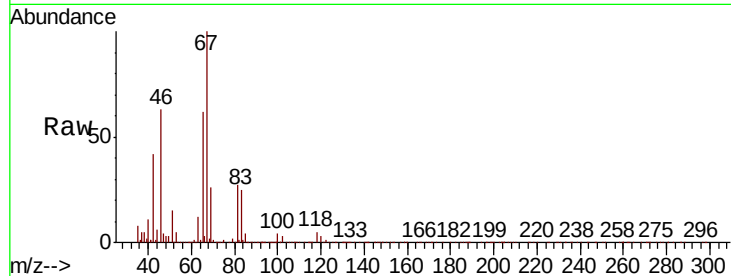
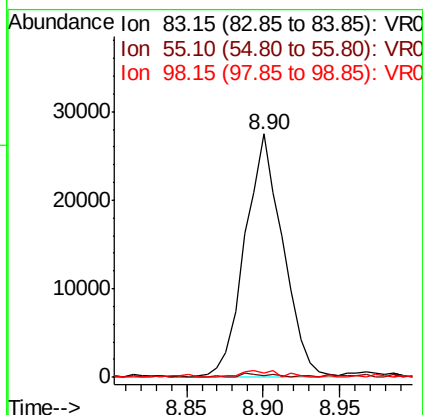




#35  
Methylcyclohexane  
Concen: 0.692 ug/L  
RT: 8.90 min Scan# 1187  
Delta R.T. -0.05 min  
Lab File: VR026156.D  
Acq: 26 Oct 2018 13:39

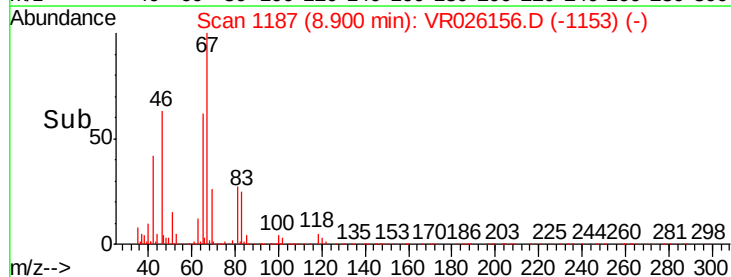
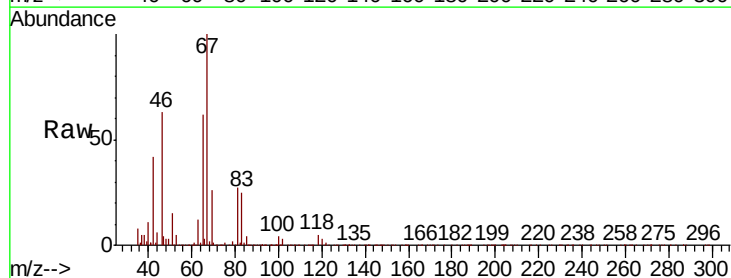
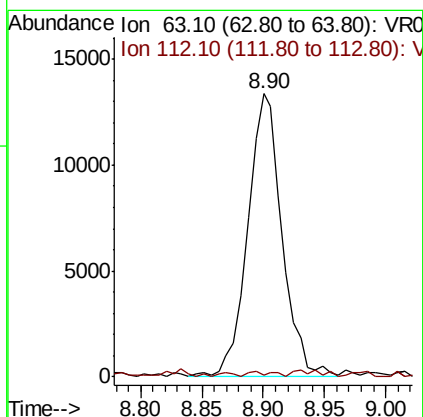
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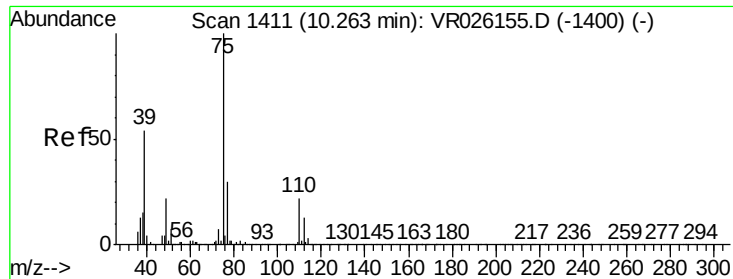
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 83      | 100   |       |        |
| 55      | 1.6   | 66.8  | 100.2# |
| 98      | 3.1   | 35.2  | 52.8#  |



#37  
1,2-Dichloropropane  
Concen: 0.689 ug/L  
RT: 8.90 min Scan# 1187  
Delta R.T. -0.09 min  
Lab File: VR026156.D  
Acq: 26 Oct 2018 13:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 112     | 0.7   | 2.7   | 4.1#  |

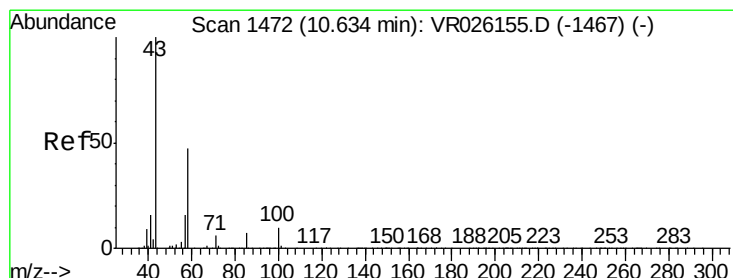
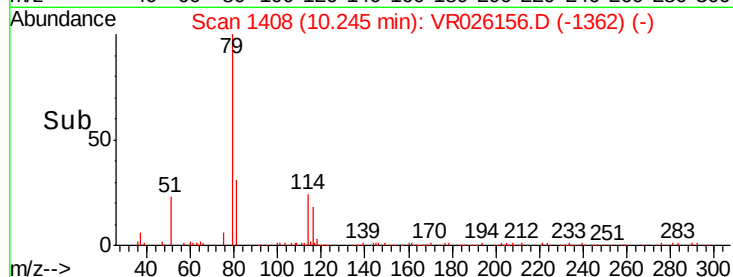
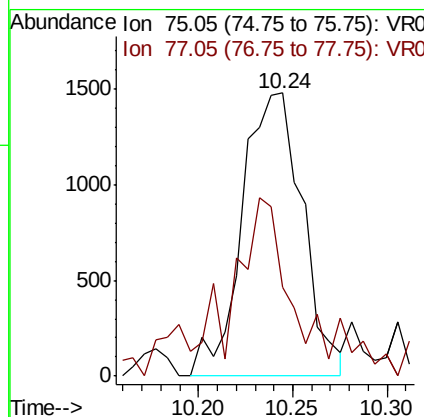
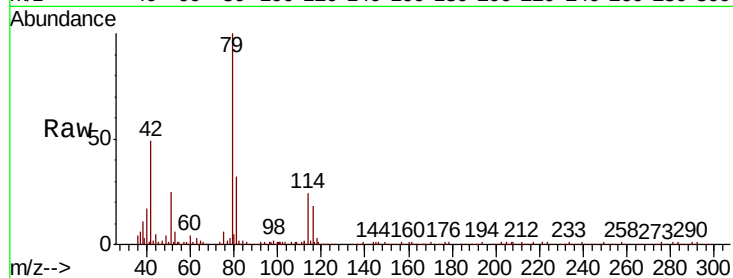




#44  
trans-1,3-Dichloropropene  
Concen: 0.109 ug/L  
RT: 10.24 min Scan# 1408  
Delta R.T. -0.02 min  
Lab File: VR026156.D  
Acq: 26 Oct 2018 13:39

Instrument :  
MSVOA\_R  
ClientSampleId :  
VBLK89

Tgt Ion: 75 Resp: 3285  
Ion Ratio Lower Upper  
75 100  
77 31.6 24.1 44.7



#48  
2-Hexanone  
Concen: 3.269 ug/L  
RT: 10.59 min Scan# 1465  
Delta R.T. -0.04 min  
Lab File: VR026156.D  
Acq: 26 Oct 2018 13:39

Tgt Ion: 43 Resp: 24627  
Ion Ratio Lower Upper  
43 100  
58 28.3 39.6 59.4#  
57 31.0 14.0 21.0#  
100 3.0 7.0 10.6#

