

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_R\DATA\VR080718\  
 Data File : VR025574.D  
 Acq On : 7 Aug 2018 13:52  
 Operator : SY/MD  
 Sample : J4358-08  
 Misc : 25mL/MSVOA\_R/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 ESWW8

Quant Time: Aug 08 02:01:21 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR073018WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 08 02:00:36 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.47  | 114  | 505860   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 439188   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 153189   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.14   | 65    | 120566   | 3.84     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 76.80%   |
| 7) Chloroethane-d5             | 2.63   | 69    | 107377   | 4.35     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.00%   |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 226316   | 3.13     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 62.60%   |
| 20) 2-Butanone-d5              | 6.60   | 46    | 153004   | 59.06    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 118.12%  |
| 24) Chloroform-d               | 7.20   | 84    | 253069   | 4.86     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.20%   |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 90035    | 5.09     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.80%  |
| 32) Benzene-d6                 | 7.86   | 84    | 533830   | 4.53     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.60%   |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 153587   | 4.97     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.40%   |
| 41) Toluene-d8                 | 9.97   | 98    | 485914   | 4.19     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 83.80%   |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 29879    | 3.78     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 75.60%   |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 165006   | 65.29    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 130.58%# |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 73706    | 5.27     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 105.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 139173   | 5.95     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 119.00%  |

## Target Compounds

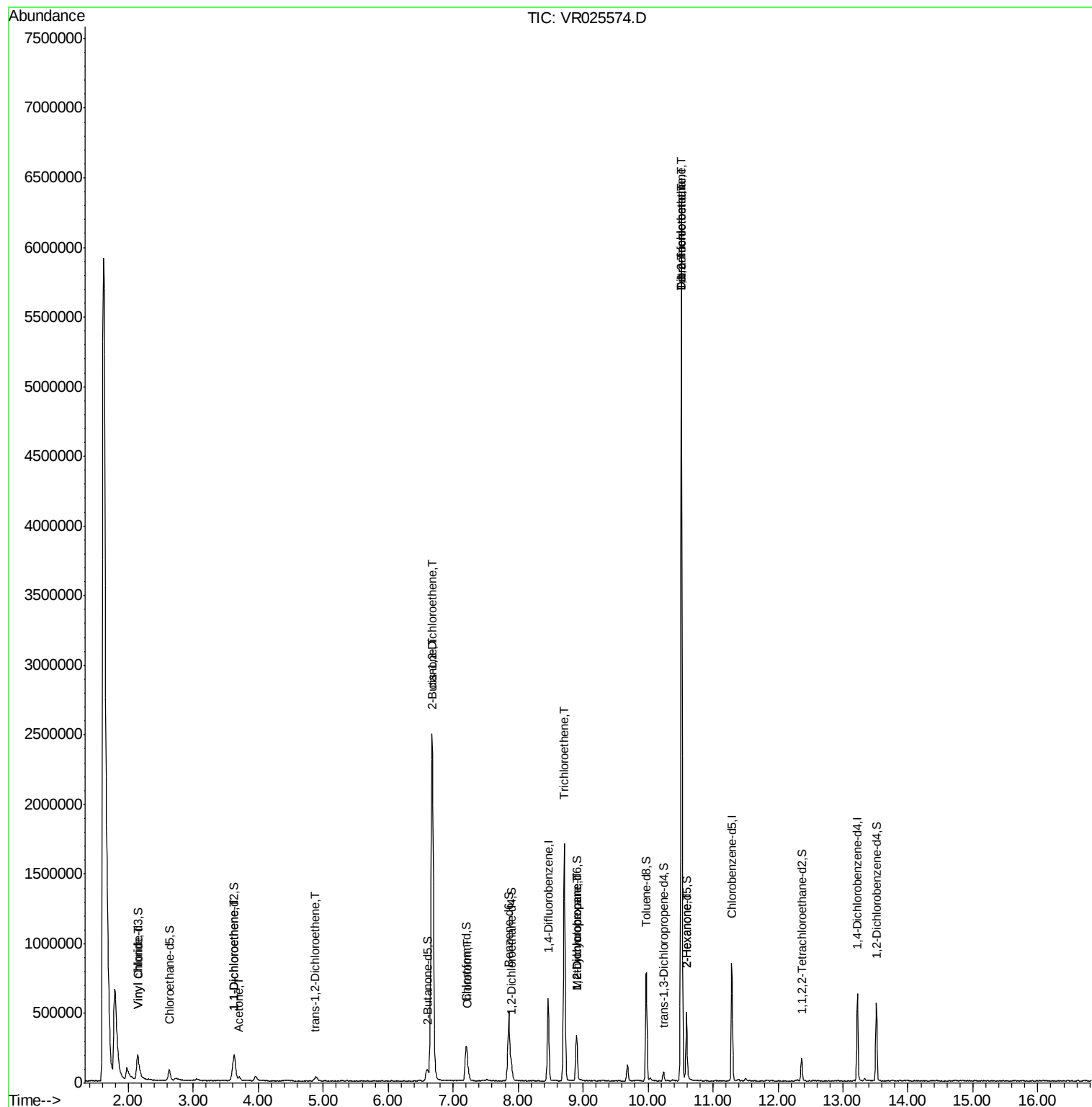
| Target Compounds             | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|------------------------------|-------|------|----------|--------|--------|--------|
| 5) Vinyl chloride            | 2.15  | 62   | 143711   | 3.760  | ug/L   | 99     |
| 12) 1,1-Dichloroethene       | 3.63  | 96   | 7602     | 0.210  | ug/L # | 1      |
| 13) Acetone                  | 3.71  | 43   | 38333    | 17.603 | ug/L   | 96     |
| 18) trans-1,2-Dichloroethene | 4.88  | 96   | 9153     | 0.265  | ug/L   | 88     |
| 21) 2-Butanone               | 6.69  | 43   | 9544     | 3.155  | ug/L # | 1      |
| 22) cis-1,2-Dichloroethene   | 6.68  | 96   | 1628606  | 51.527 | ug/L # | 99     |
| 25) Chloroform               | 7.22  | 83   | 47090    | 0.939  | ug/L   | 92     |
| 34) Trichloroethene          | 8.71  | 95   | 545281   | 16.159 | ug/L   | 98     |
| 35) Methylcyclohexane        | 8.90  | 83   | 37324    | 0.736  | ug/L # | 21     |
| 37) 1,2-Dichloropropane      | 8.90  | 63   | 15308    | 0.536  | ug/L # | 91     |
| 45) 1,1,2-Trichloroethane    | 10.52 | 97   | 10213    | 0.718  | ug/L # | 1      |
| 47) Tetrachloroethene        | 10.52 | 164  | 1302040  | 45.098 | ug/L   | 98     |
| 48) 2-Hexanone               | 10.59 | 43   | 18510    | 3.410  | ug/L # | 70     |
| 49) Dibromochloromethane     | 10.52 | 129  | 1115678  | 66.491 | ug/L # | 11     |

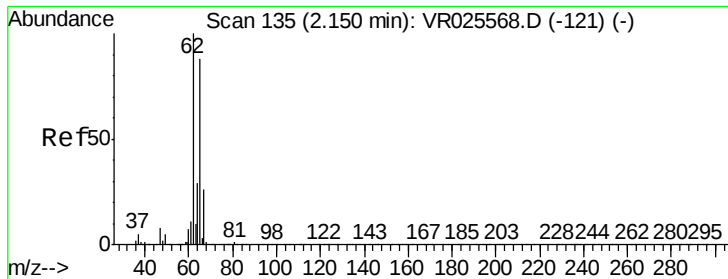
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_R\DATA\VR080718\  
Data File : VR025574.D  
Acq On : 7 Aug 2018 13:52  
Operator : SY/MD  
Sample : J4358-08  
Misc : 25mL/MSVOA\_R/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :  
ESWW8

Quant Time: Aug 08 02:01:21 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR073018WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Aug 08 02:00:36 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.760 ug/L

RT: 2.15 min Scan# 135

Delta R.T. -0.01 min

Lab File: VR025574.D

Acq: 7 Aug 2018 13:52

Instrument :

MSVOA\_R

ClientSampleId :

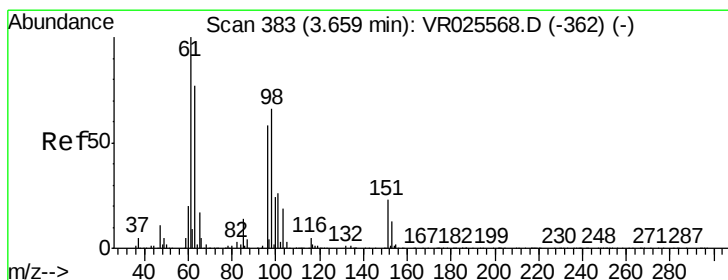
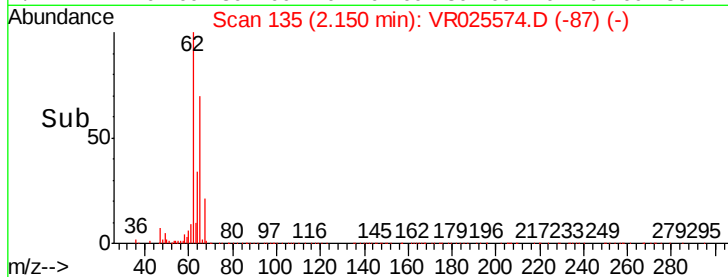
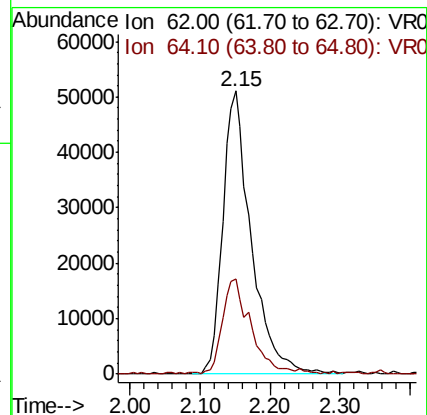
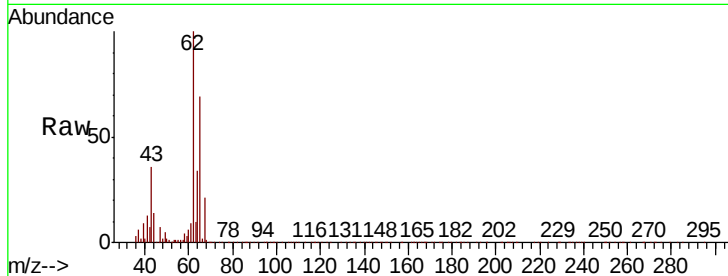
ESWW8

Tgt Ion: 62 Resp: 143711

Ion Ratio Lower Upper

62 100

64 33.8 24.1 44.8



#12

1,1-Dichloroethene

Concen: 0.210 ug/L

RT: 3.63 min Scan# 379

Delta R.T. -0.01 min

Lab File: VR025574.D

Acq: 7 Aug 2018 13:52

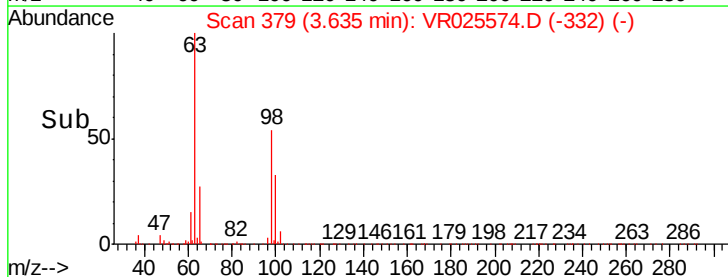
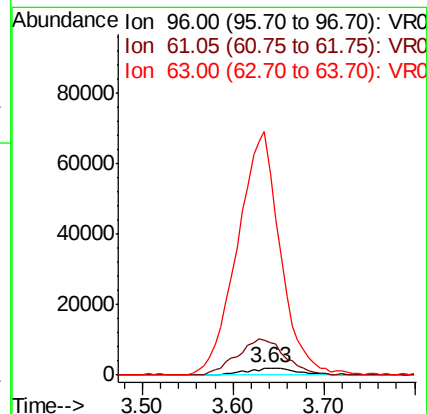
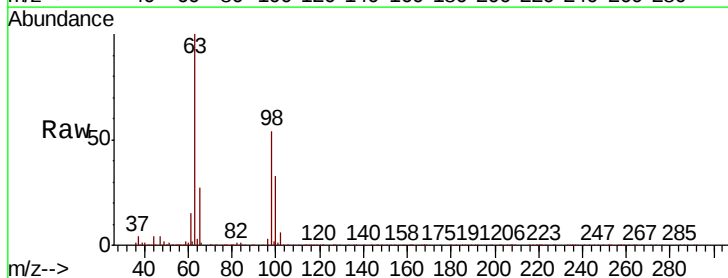
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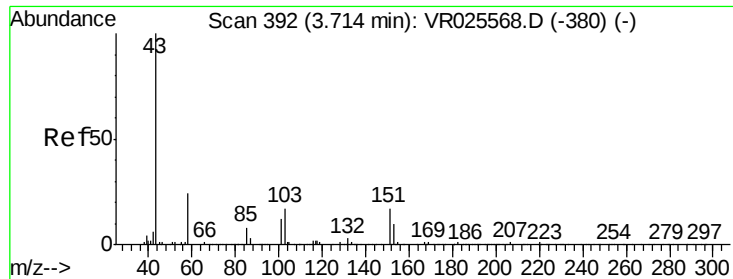
Ion Ratio Lower Upper

96 100

61 481.0 124.3 230.8#

63 3306.6 108.1 200.7#

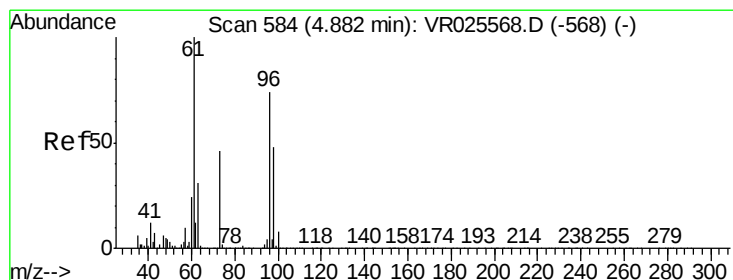
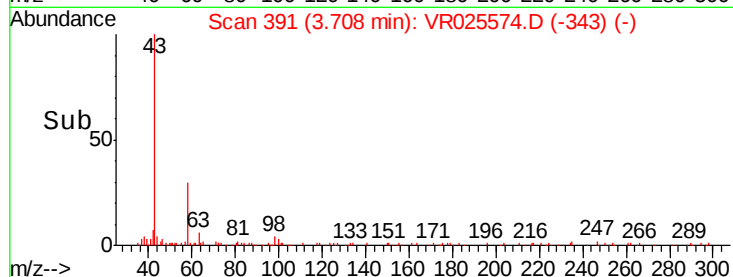
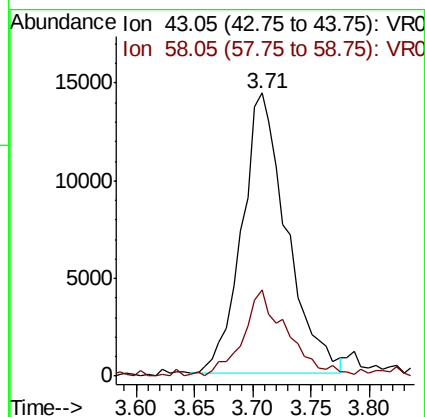
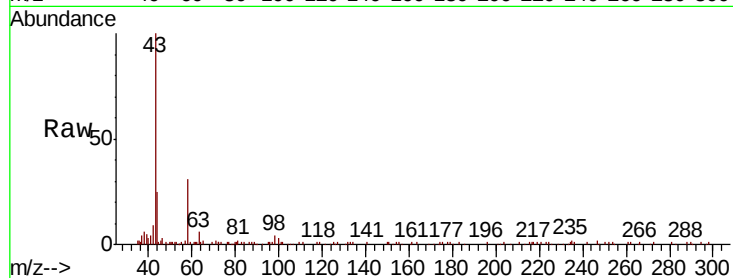




#13  
Acetone  
Concen: 17.603 ug/L  
RT: 3.71 min Scan# 391  
Delta R.T. -0.01 min  
Lab File: VR025574.D  
Acq: 7 Aug 2018 13:52

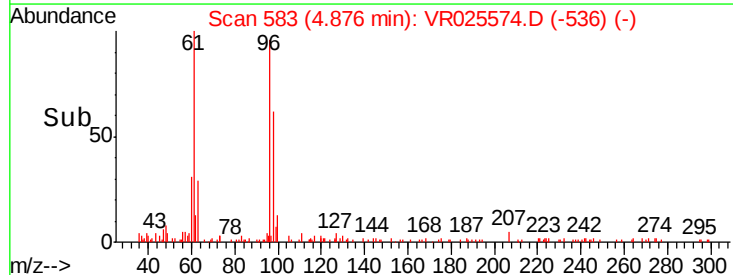
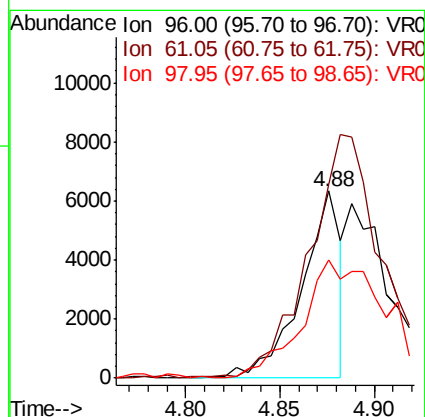
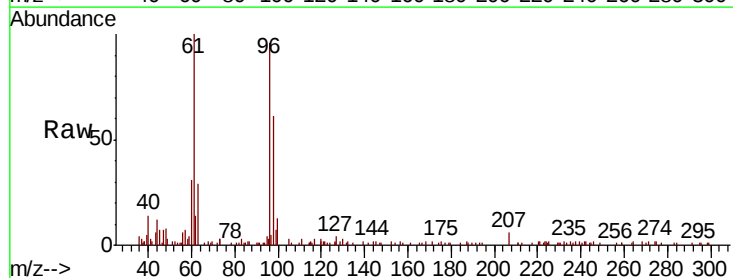
Instrument :  
MSVOA\_R  
ClientSampleId :  
ESWW8

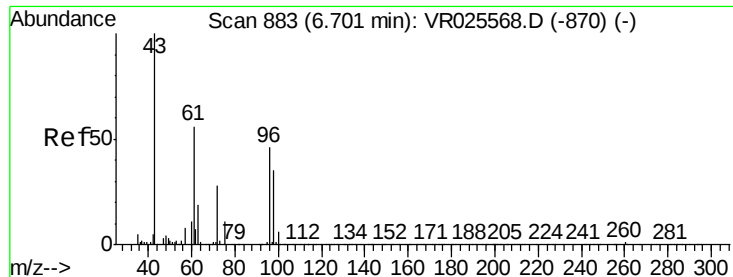
Tgt Ion: 43 Resp: 38333  
Ion Ratio Lower Upper  
43 100  
58 28.9 0.0 53.4



#18  
trans-1,2-Dichloroethene  
Concen: 0.265 ug/L  
RT: 4.88 min Scan# 583  
Delta R.T. -0.01 min  
Lab File: VR025574.D  
Acq: 7 Aug 2018 13:52

Tgt Ion: 96 Resp: 9153  
Ion Ratio Lower Upper  
96 100  
61 104.0 85.5 158.9  
98 63.6 42.1 78.1

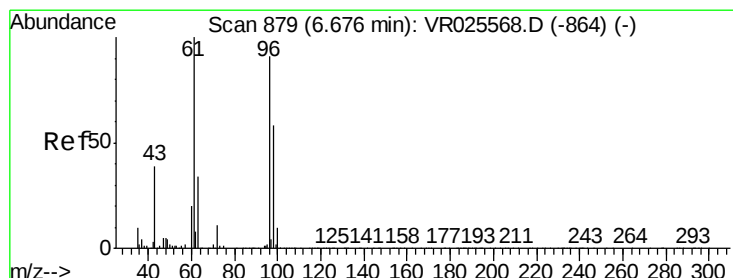
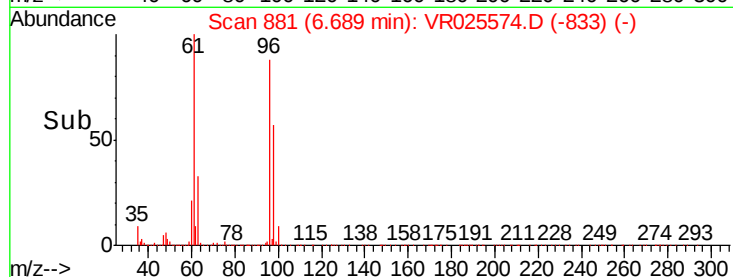
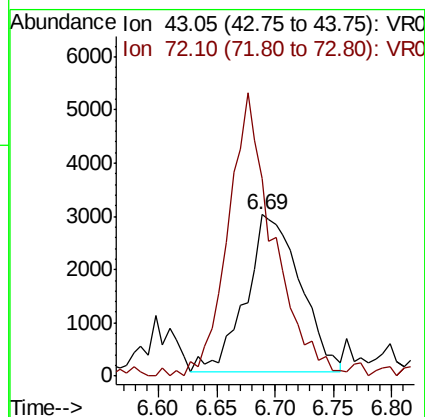
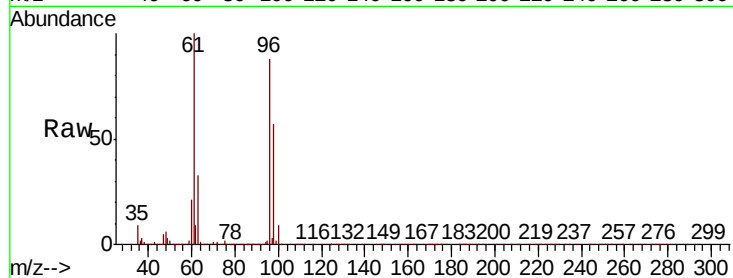




#21  
2-Butanone  
Concen: 3.155 ug/L  
RT: 6.69 min Scan# 881  
Delta R.T. -0.01 min  
Lab File: VR025574.D  
Acq: 7 Aug 2018 13:52

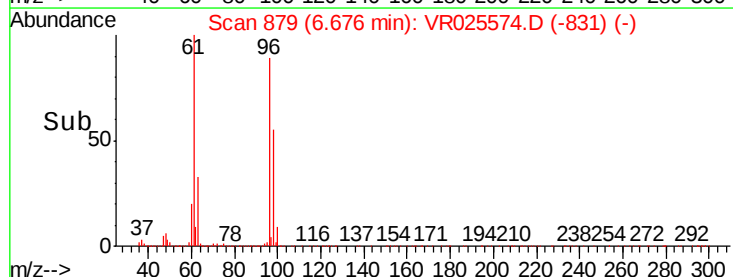
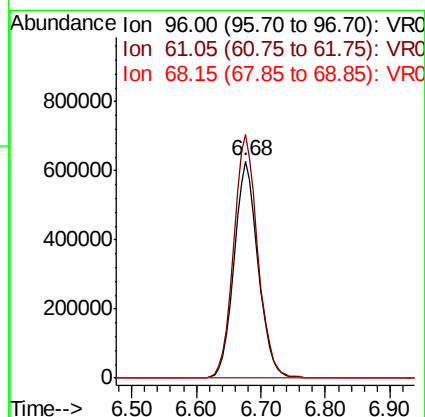
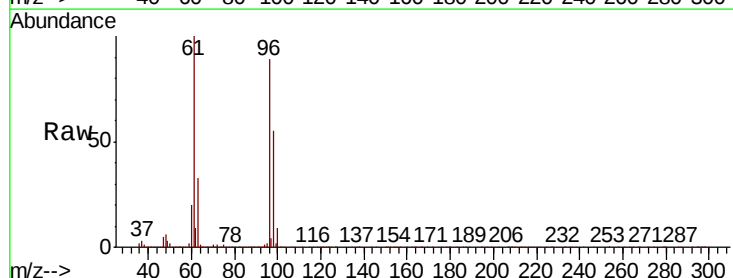
Instrument :  
MSVOA\_R  
ClientSampleId :  
ESWW8

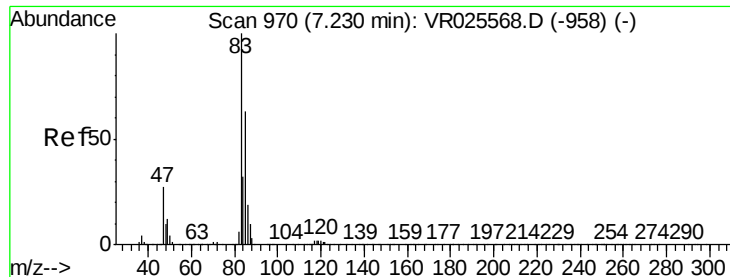
Tgt Ion: 43 Resp: 9544  
Ion Ratio Lower Upper  
43 100  
72 149.8 13.2 39.6#



#22  
cis-1,2-Dichloroethene  
Concen: 51.527 ug/L  
RT: 6.68 min Scan# 879  
Delta R.T. -0.01 min  
Lab File: VR025574.D  
Acq: 7 Aug 2018 13:52

Tgt Ion: 96 Resp: 1628606  
Ion Ratio Lower Upper  
96 100  
61 112.2 77.7 144.3  
68 0.0 0.0 0.0#





#25

Chloroform

Concen: 0.939 ug/L

RT: 7.22 min Scan# 969

Delta R.T. -0.01 min

Lab File: VR025574.D

Acq: 7 Aug 2018 13:52

Instrument :

MSVOA\_R

ClientSampleId :

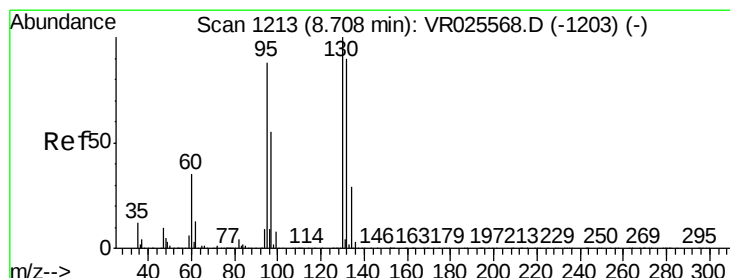
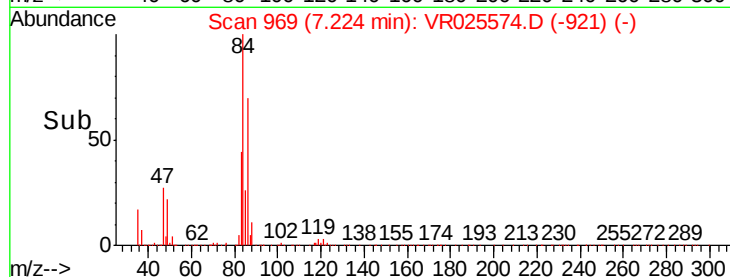
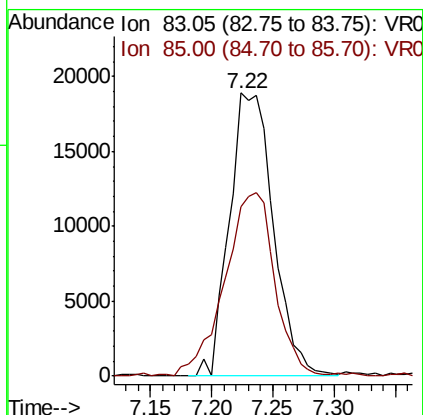
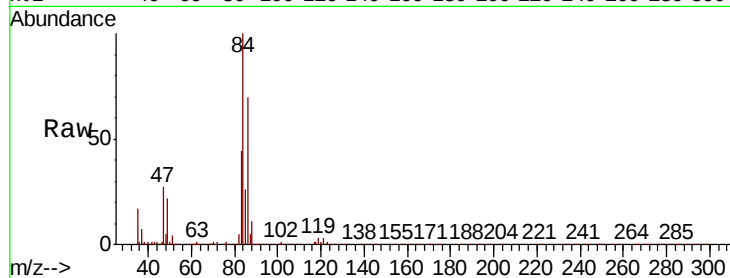
ESWW8

Tgt Ion: 83 Resp: 47090

Ion Ratio Lower Upper

83 100

85 59.6 46.5 86.3



#34

Trichloroethene

Concen: 16.159 ug/L

RT: 8.71 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VR025574.D

Acq: 7 Aug 2018 13:52

Tgt Ion: 95 Resp: 545281

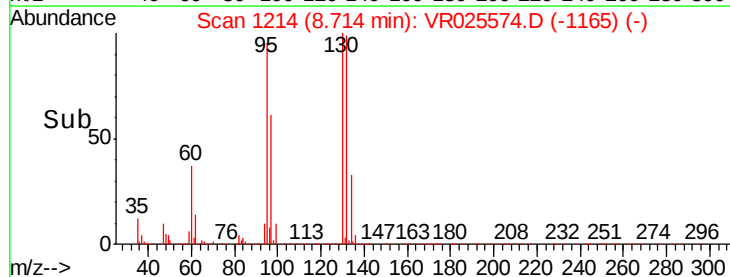
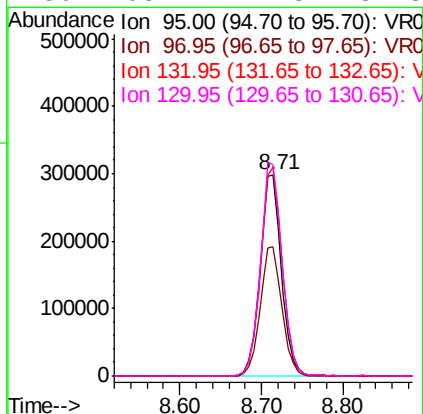
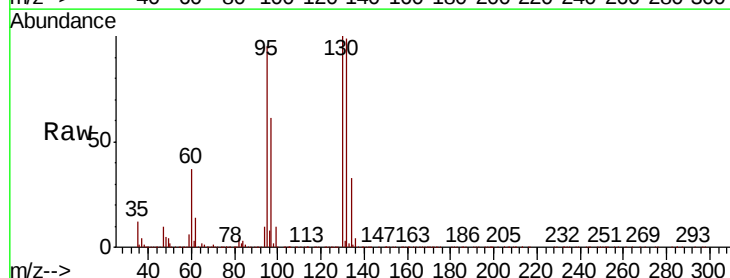
Ion Ratio Lower Upper

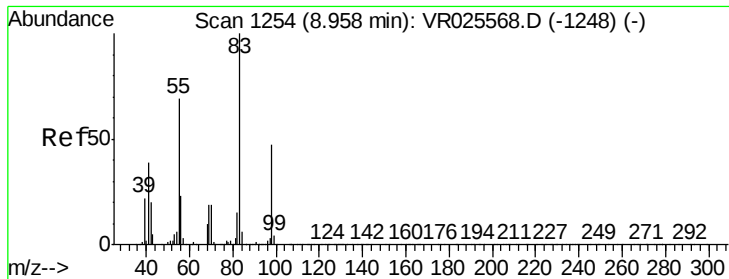
95 100

97 64.4 46.7 86.7

132 103.5 71.7 133.1

130 105.1 71.3 132.3

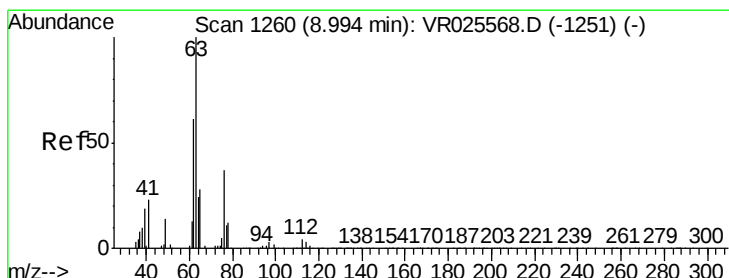
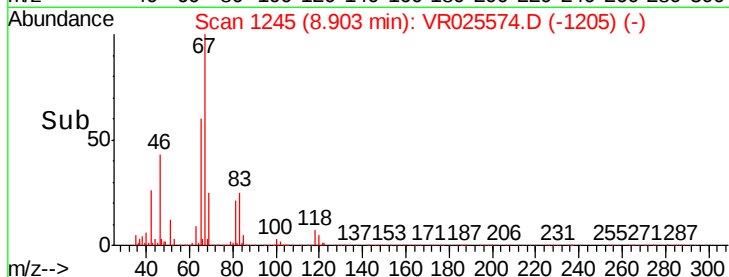
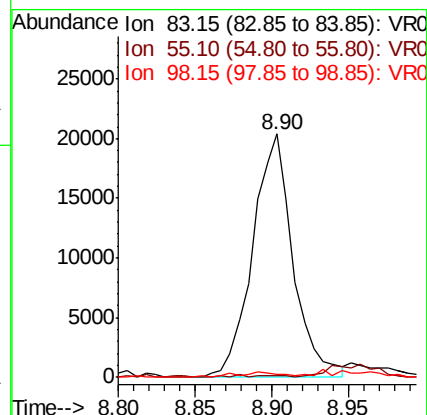
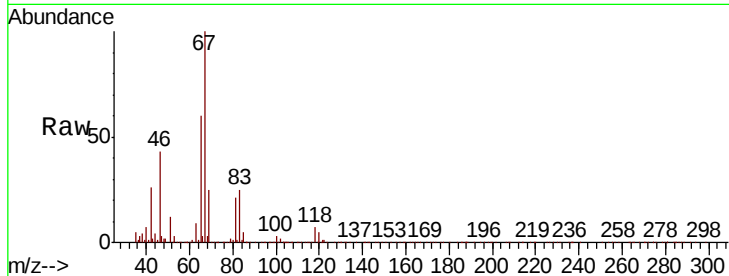




#35  
Methylcyclohexane  
Concen: 0.736 ug/L  
RT: 8.90 min Scan# 1245  
Delta R.T. -0.05 min  
Lab File: VR025574.D  
Acq: 7 Aug 2018 13:52

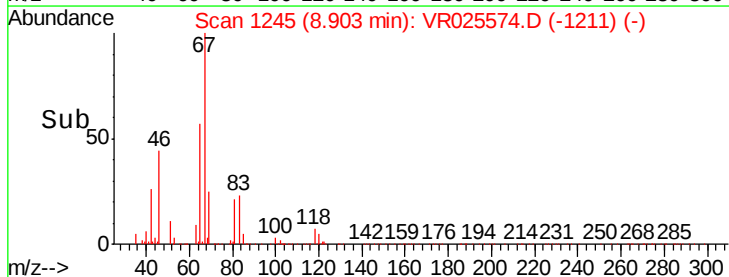
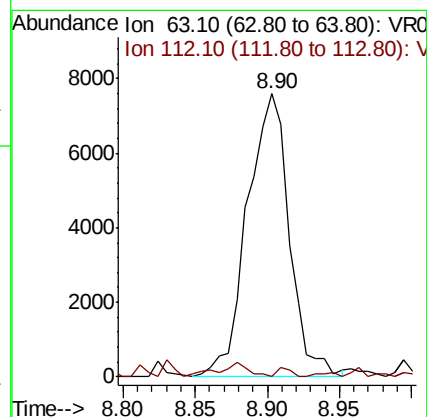
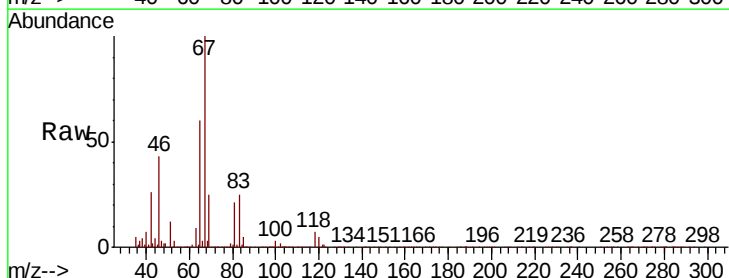
Instrument :  
MSVOA\_R  
ClientSampled :  
ESWW8

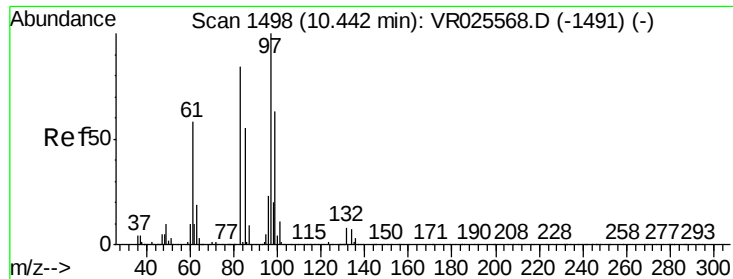
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 0.2   | 58.3  | 87.5# |
| 98      | 2.5   | 37.8  | 56.6# |



#37  
1,2-Dichloropropane  
Concen: 0.536 ug/L  
RT: 8.90 min Scan# 1245  
Delta R.T. -0.09 min  
Lab File: VR025574.D  
Acq: 7 Aug 2018 13:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 112     | 1.0   | 3.3   | 4.9#  |

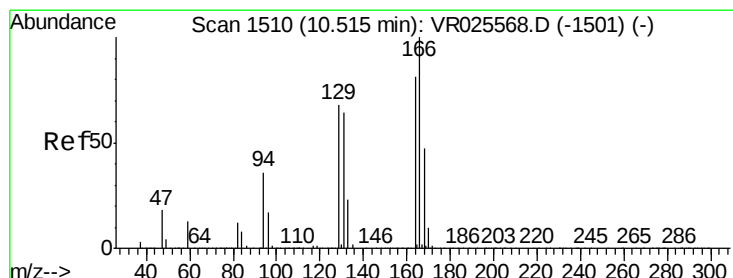
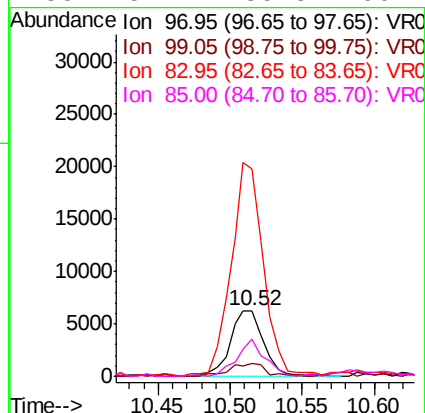
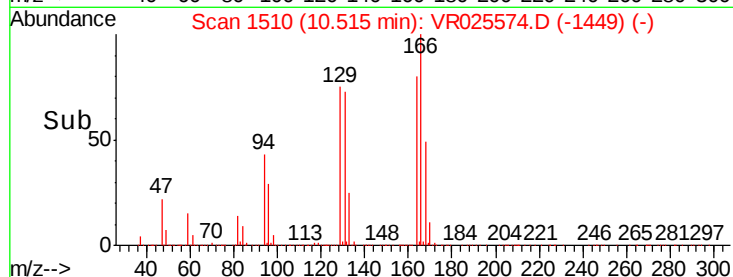
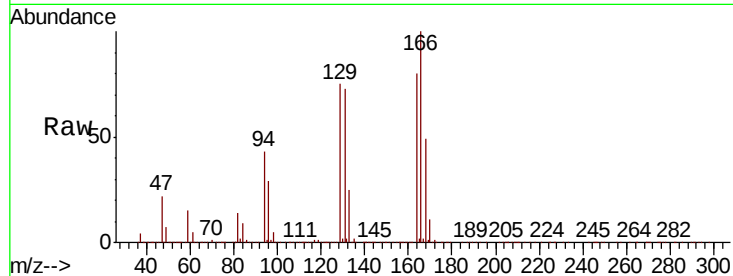




#45  
 1,1,2-Trichloroethane  
 Concen: 0.718 ug/L  
 RT: 10.52 min Scan# 1510  
 Delta R.T. 0.07 min  
 Lab File: VR025574.D  
 Acq: 7 Aug 2018 13:52

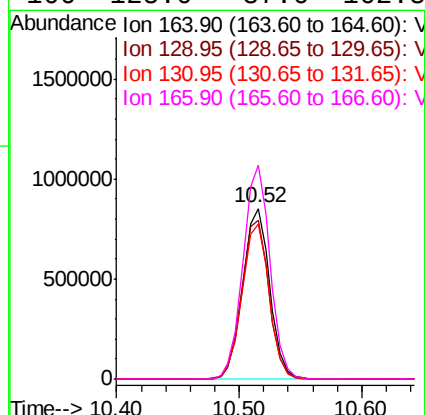
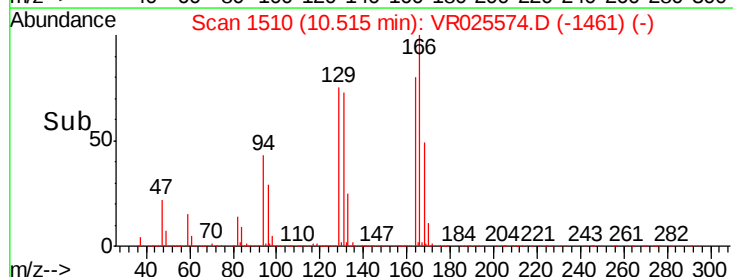
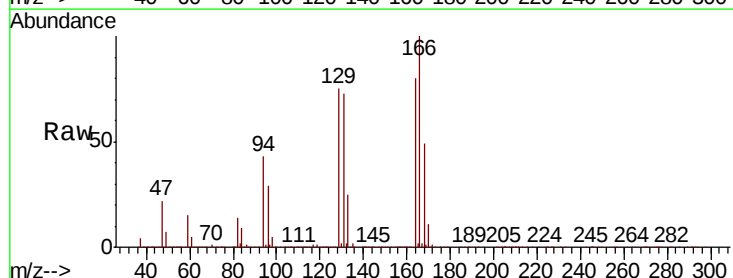
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 ESWW8

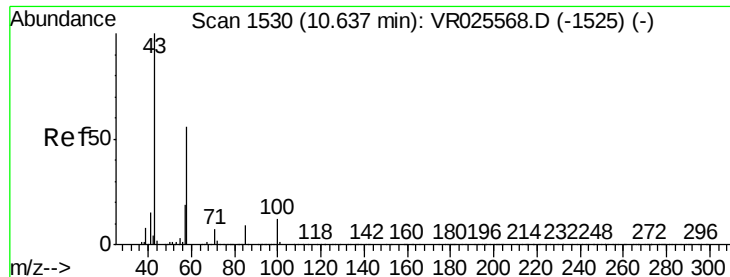
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 10213  |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 19.6  | 43.4  | 80.6#  |
| 83       | 315.6 | 57.3  | 106.5# |
| 85       | 57.2  | 35.8  | 66.4   |



#47  
 Tetrachloroethene  
 Concen: 45.098 ug/L  
 RT: 10.52 min Scan# 1510  
 Delta R.T. 0.00 min  
 Lab File: VR025574.D  
 Acq: 7 Aug 2018 13:52

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 164   | Resp: | 1302040 |
| Ion      | Ratio | Lower | Upper   |
| 164      | 100   |       |         |
| 129      | 93.2  | 63.0  | 117.0   |
| 131      | 90.9  | 60.6  | 112.6   |
| 166      | 125.0 | 87.6  | 162.8   |

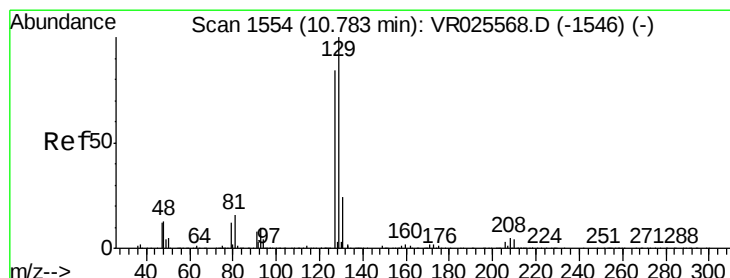
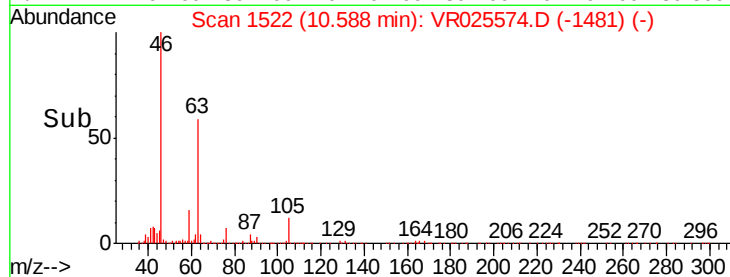
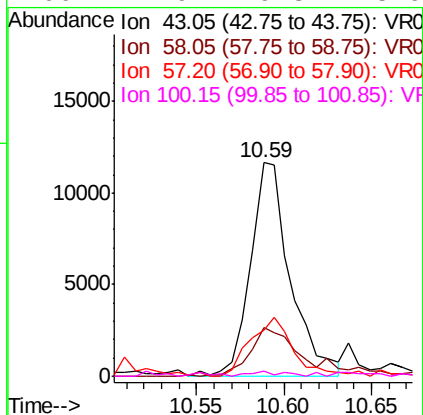
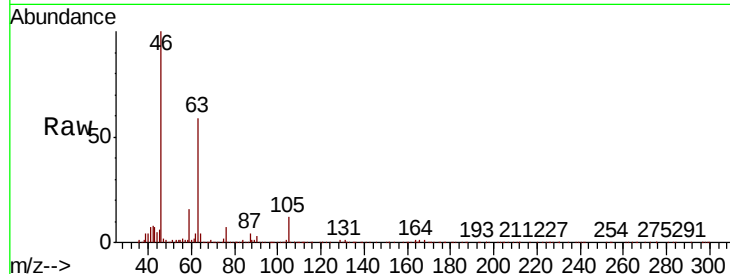




#48  
2-Hexanone  
Concen: 3.410 ug/L  
RT: 10.59 min Scan# 1522  
Delta R.T. -0.05 min  
Lab File: VR025574.D  
Acq: 7 Aug 2018 13:52

Instrument :  
MSVOA\_R  
ClientSampled :  
ESWW8

Tgt Ion: 43 Resp: 18510  
Ion Ratio Lower Upper  
43 100  
58 31.7 45.0 67.6#  
57 29.5 15.8 23.6#  
100 1.9 9.3 13.9#



#49  
Dibromochloromethane  
Concen: 66.491 ug/L  
RT: 10.52 min Scan# 1510  
Delta R.T. -0.27 min  
Lab File: VR025574.D  
Acq: 7 Aug 2018 13:52

Tgt Ion: 129 Resp: 1115678  
Ion Ratio Lower Upper  
129 100  
127 0.2 54.3 100.9#

