

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_R\DATA\VR071618\  
 Data File : VR025481.D  
 Acq On : 16 Jul 2018 17:54  
 Operator : SY/MD  
 Sample : J4002-07MS  
 Misc : 25mL/MSVOA\_R/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 C0AG4MS

Quant Time: Jul 17 01:11:53 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR070518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Jul 17 01:11:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.45  | 114  | 720092   | 5.00 | ug/L  | -0.01    |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 595956   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 201516   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.14   | 65    | 86242    | 4.34     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.80%  |
| 7) Chloroethane-d5             | 2.62   | 69    | 70126    | 4.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 83.00%  |
| 11) 1,1-Dichloroethene-d2      | 3.62   | 63    | 259831   | 4.32     | ug/L | -0.02   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 86.40%  |
| 20) 2-Butanone-d5              | 6.58   | 46    | 288390   | 46.77    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.54%  |
| 24) Chloroform-d               | 7.19   | 84    | 416481   | 4.24     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 84.80%  |
| 26) 1,2-Dichloroethane-d4      | 7.89   | 65    | 166582   | 4.43     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.60%  |
| 32) Benzene-d6                 | 7.84   | 84    | 907915   | 4.55     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.00%  |
| 36) 1,2-Dichloropropane-d6     | 8.89   | 67    | 263845   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.20%  |
| 41) Toluene-d8                 | 9.97   | 98    | 807528   | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.20%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 67538    | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 88.00%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 240632   | 48.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 97.14%  |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 113257   | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 87.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 180119   | 5.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 108.20% |

## Target Compounds

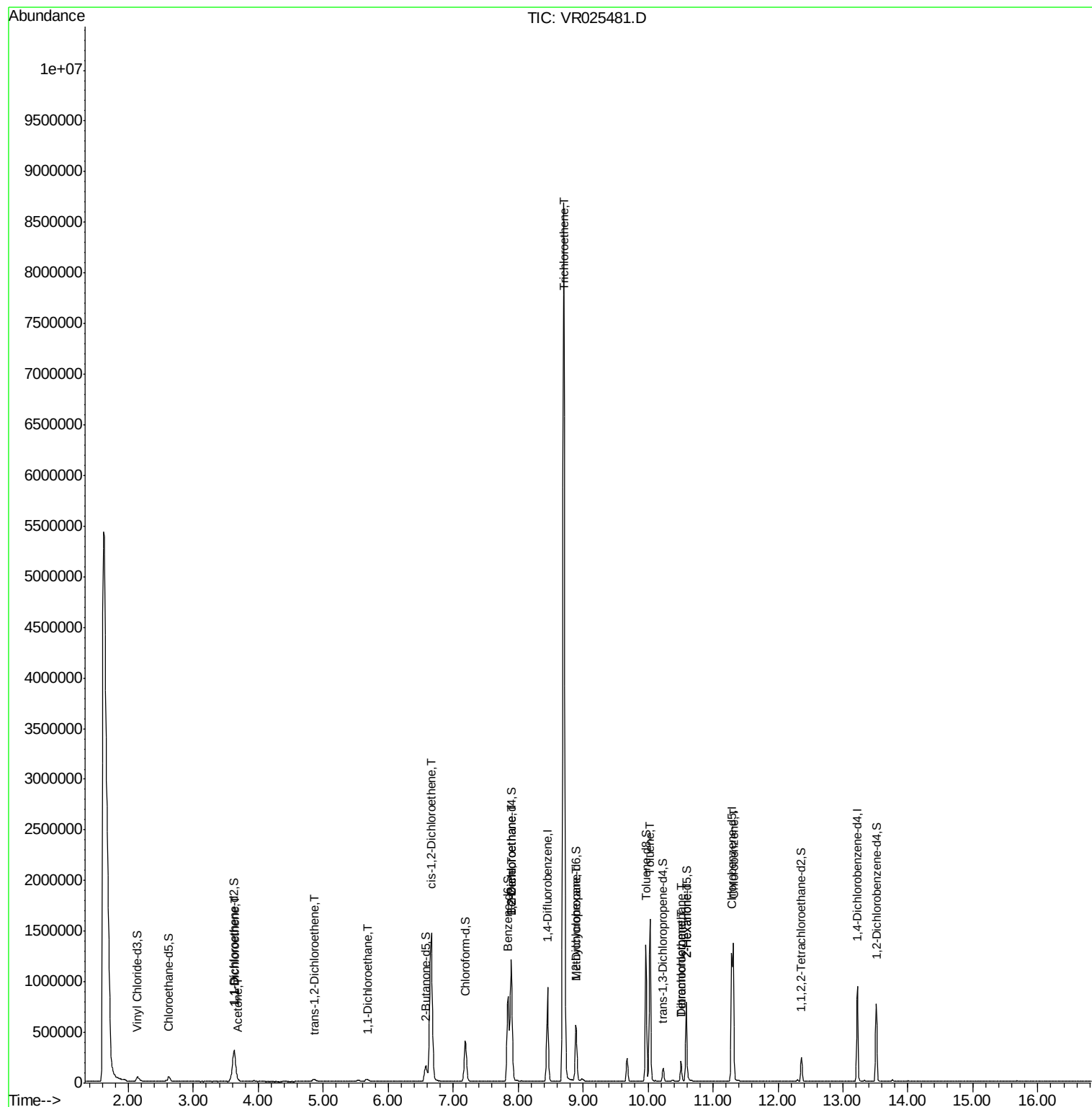
| Target Compounds             | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|------------------------------|-------|------|----------|--------|--------|--------|
| 12) 1,1-Dichloroethene       | 3.64  | 96   | 105081   | 4.881  | ug/L   | 98     |
| 13) Acetone                  | 3.68  | 43   | 6321     | 2.275  | ug/L   | 84     |
| 18) trans-1,2-Dichloroethene | 4.86  | 96   | 11506    | 0.215  | ug/L   | 94     |
| 19) 1,1-Dichloroethane       | 5.68  | 63   | 37021    | 0.403  | ug/L   | 92     |
| 22) cis-1,2-Dichloroethene   | 6.66  | 96   | 961624   | 19.566 | ug/L # | 97     |
| 27) 1,2-Dichloroethane       | 7.89  | 62   | 8215     | 0.208  | ug/L   | 96     |
| 33) Benzene                  | 7.90  | 78   | 1077679  | 5.246  | ug/L   | 100    |
| 34) Trichloroethene          | 8.70  | 95   | 3238057  | 61.919 | ug/L   | 99     |
| 35) Methylcyclohexane        | 8.89  | 83   | 60399    | 0.864  | ug/L # | 18     |
| 42) Toluene                  | 10.03 | 91   | 1089876  | 5.456  | ug/L   | 98     |
| 47) Tetrachloroethene        | 10.51 | 164  | 40646    | 1.190  | ug/L   | 92     |
| 48) 2-Hexanone               | 10.59 | 43   | 28456    | 2.989  | ug/L # | 68     |
| 49) Dibromochloromethane     | 10.51 | 129  | 32492    | 1.332  | ug/L # | 10     |
| 51) Chlorobenzene            | 11.31 | 112  | 637250   | 5.239  | ug/L   | 96     |

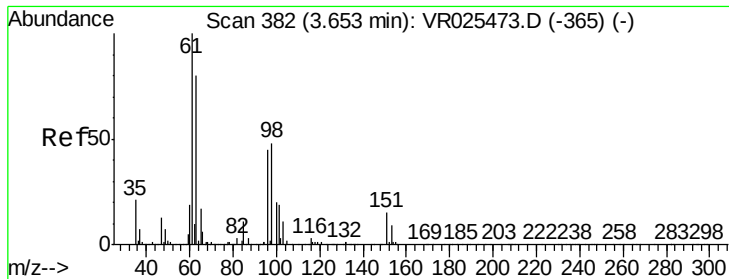
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_R\DATA\VR071618\  
Data File : VR025481.D  
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Operator : SY/MD  
Sample : J4002-07MS  
Misc : 25mL/MSVOA\_R/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :  
C0AG4MS

Quant Time: Jul 17 01:11:53 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR070518WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Jul 17 01:11:10 2018  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 4.881 ug/L

RT: 3.64 min Scan# 380

Delta R.T. -0.01 min

Lab File: VR025481.D

Acq: 16 Jul 2018 17:54

Instrument :

MSVOA\_R

ClientSampleId :

C0AG4MS

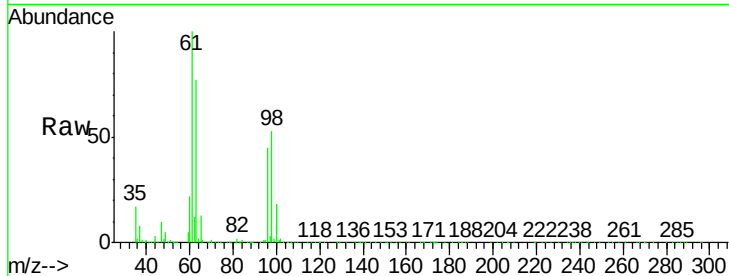
Tgt Ion: 96 Resp: 105081

Ion Ratio Lower Upper

96 100

61 220.2 155.0 287.9

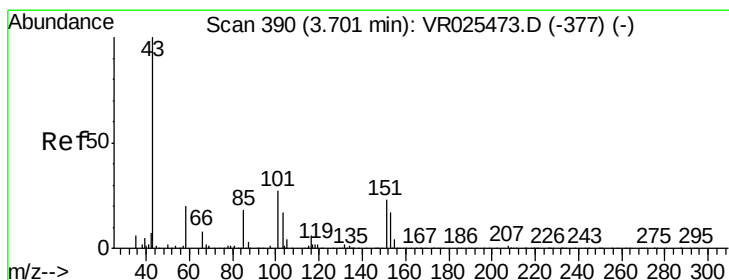
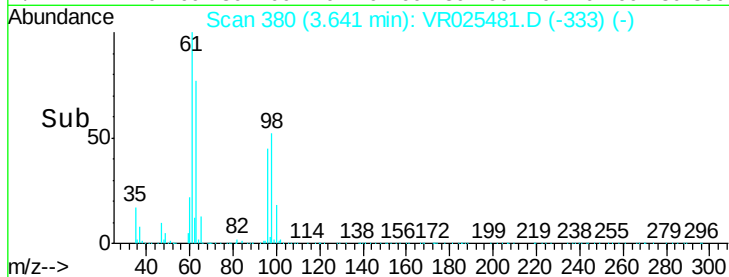
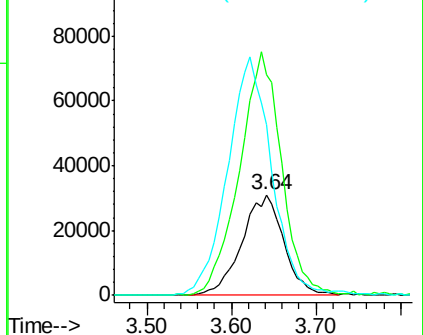
63 170.2 122.3 227.1



Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0



#13

Acetone

Concen: 2.275 ug/L

RT: 3.68 min Scan# 387

Delta R.T. -0.02 min

Lab File: VR025481.D

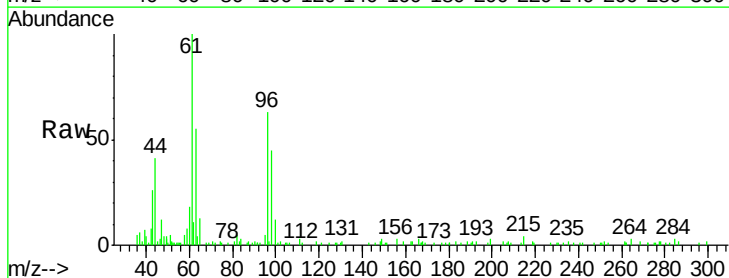
Acq: 16 Jul 2018 17:54

Tgt Ion: 43 Resp: 6321

Ion Ratio Lower Upper

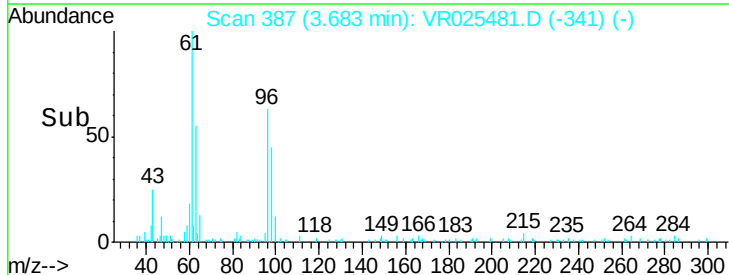
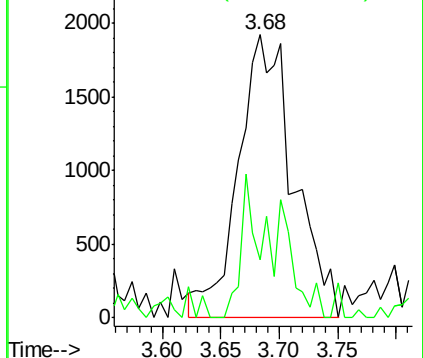
43 100

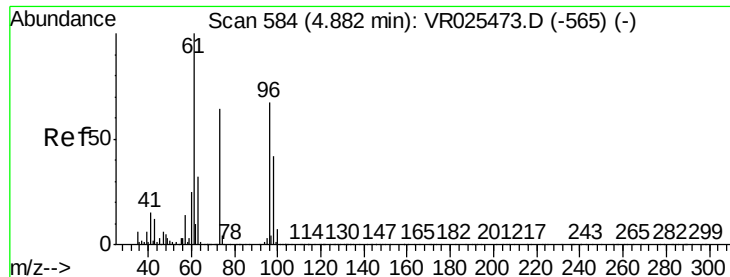
58 13.5 0.0 41.6



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0





#18

trans-1,2-Dichloroethene

Concen: 0.215 ug/L

RT: 4.86 min Scan# 581

Delta R.T. -0.02 min

Lab File: VR025481.D

Acq: 16 Jul 2018 17:54

Instrument :

MSVOA\_R

ClientSampleId :

C0AG4MS

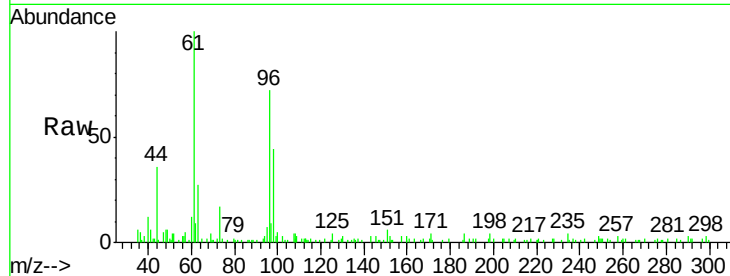
Tgt Ion: 96 Resp: 11506

Ion Ratio Lower Upper

96 100

61 139.3 104.4 193.8

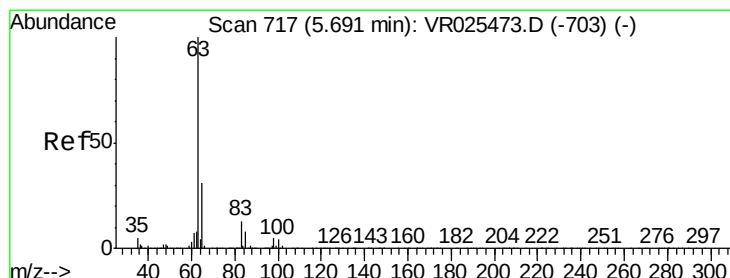
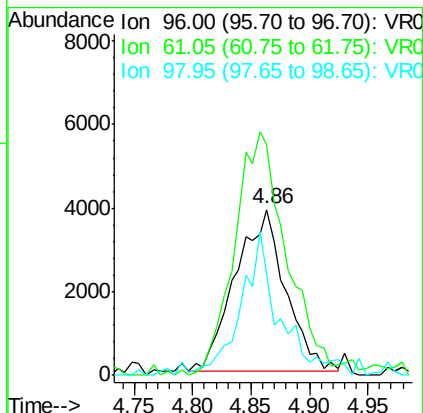
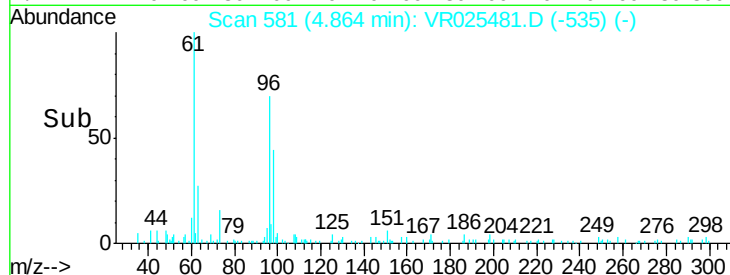
98 61.5 43.1 80.1



Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 97.95 (97.65 to 98.65): VR0



#19

1,1-Dichloroethane

Concen: 0.403 ug/L

RT: 5.68 min Scan# 715

Delta R.T. -0.01 min

Lab File: VR025481.D

Acq: 16 Jul 2018 17:54

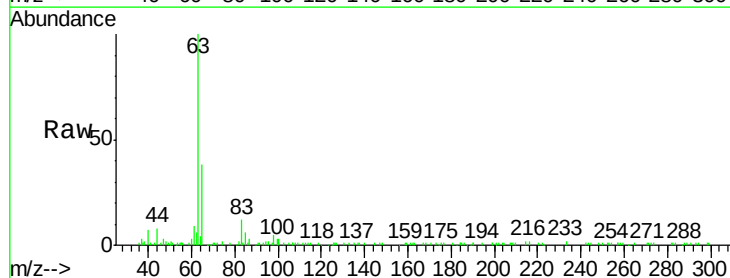
Tgt Ion: 63 Resp: 37021

Ion Ratio Lower Upper

63 100

65 38.2 22.5 41.7

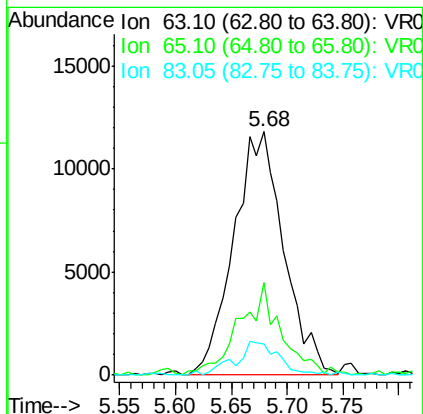
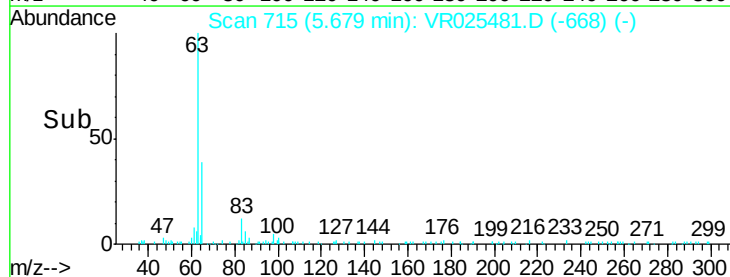
83 12.9 9.5 17.7

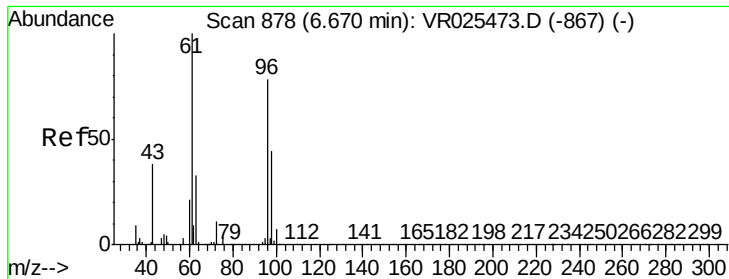


Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 65.10 (64.80 to 65.80): VR0

Ion 83.05 (82.75 to 83.75): VR0



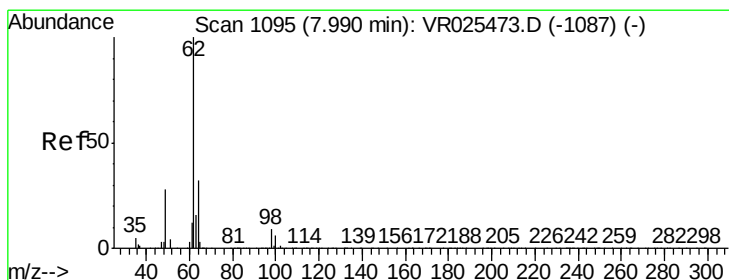
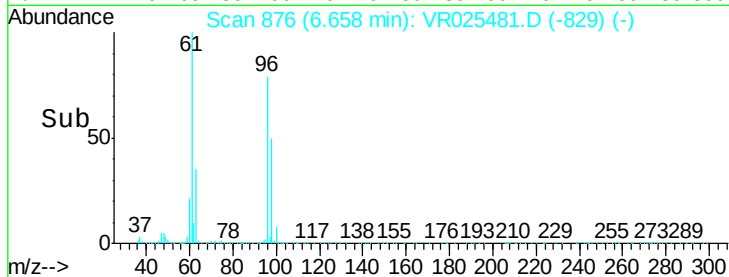
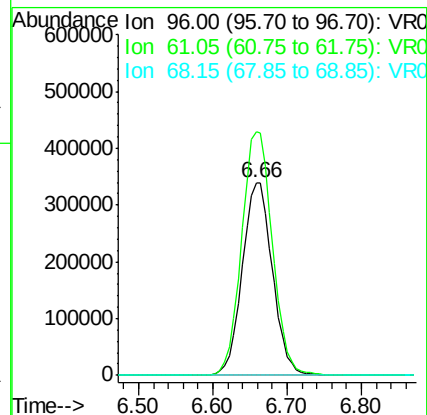
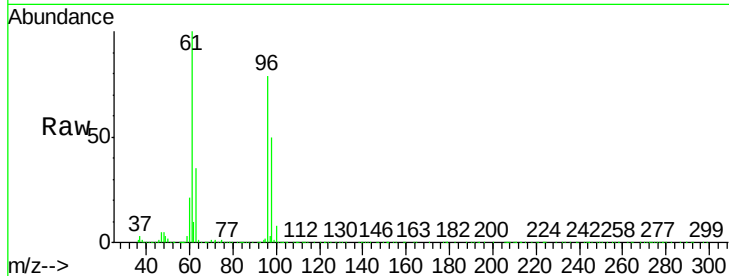


#22

cis-1,2-Dichloroethene  
 Concen: 19.566 ug/L  
 RT: 6.66 min Scan# 876  
 Delta R.T. -0.01 min  
 Lab File: VR025481.D  
 Acq: 16 Jul 2018 17:54

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 C0AG4MS

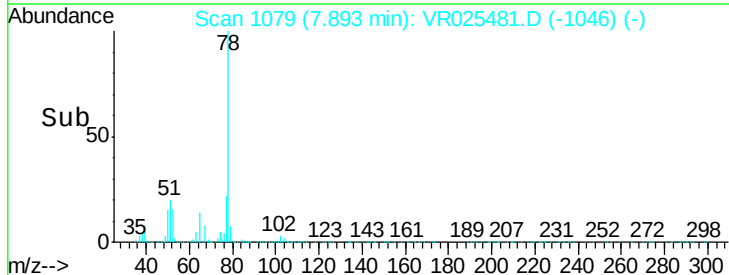
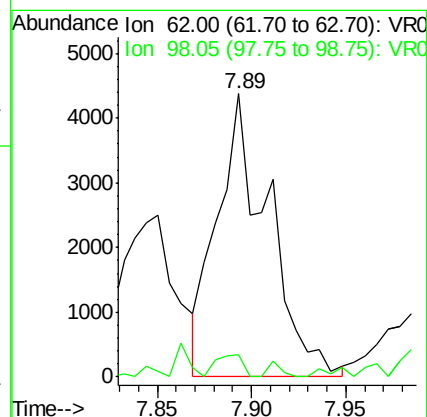
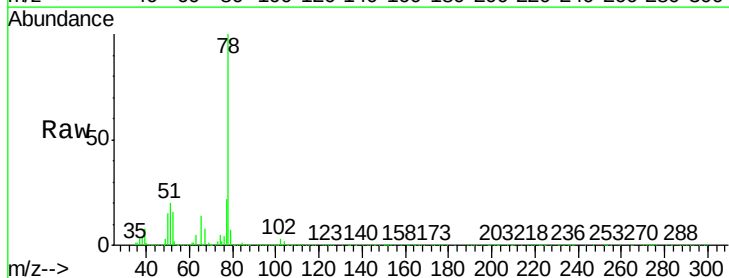
Tgt Ion: 96 Resp: 961624  
 Ion Ratio Lower Upper  
 96 100  
 61 126.5 91.0 169.0  
 68 0.0 0.0 0.0#

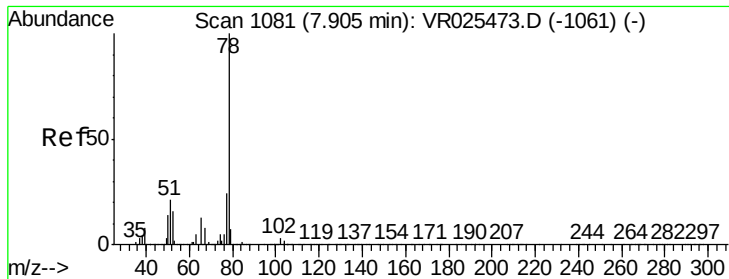


#27

1,2-Dichloroethane  
 Concen: 0.208 ug/L  
 RT: 7.89 min Scan# 1079  
 Delta R.T. -0.10 min  
 Lab File: VR025481.D  
 Acq: 16 Jul 2018 17:54

Tgt Ion: 62 Resp: 8215  
 Ion Ratio Lower Upper  
 62 100  
 98 8.0 5.4 8.2





#33

Benzene

Concen: 5.246 ug/L

RT: 7.90 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VR025481.D

Acq: 16 Jul 2018 17:54

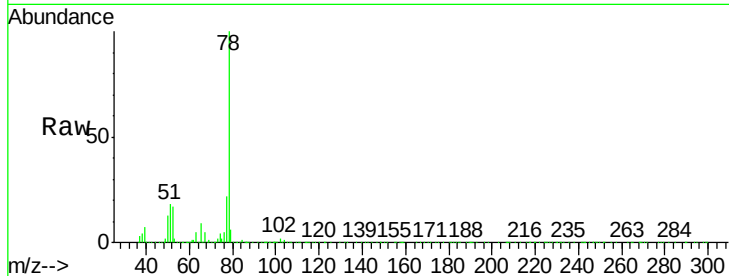
Instrument :

MSVOA\_R

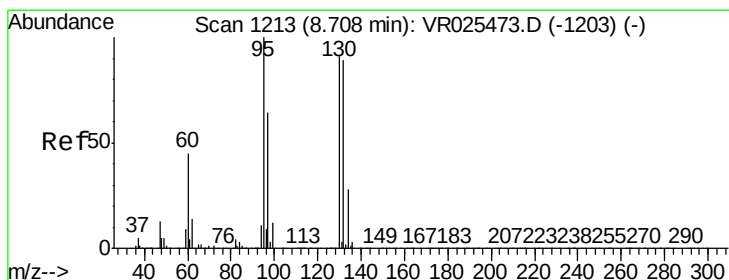
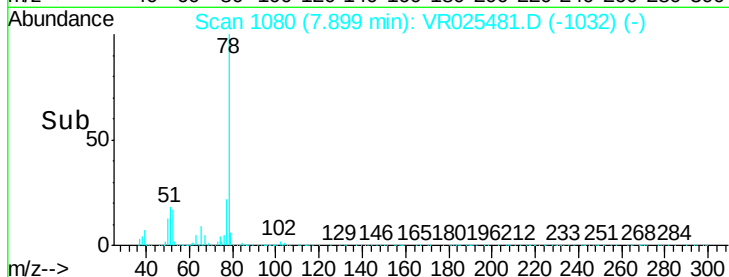
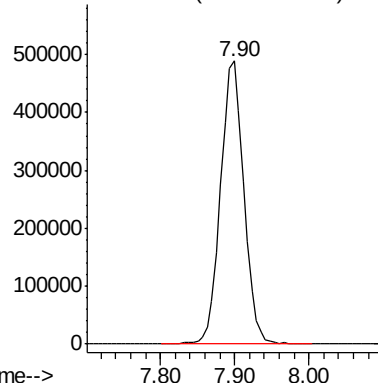
ClientSampleId :

C0AG4MS

Tgt Ion: 78 Resp: 1077679



Abundance Ion 78.10 (77.80 to 78.80): VR0



#34

Trichloroethene

Concen: 61.919 ug/L

RT: 8.70 min Scan# 1212

Delta R.T. -0.01 min

Lab File: VR025481.D

Acq: 16 Jul 2018 17:54

Tgt Ion: 95 Resp: 3238057

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.7  | 45.6  | 84.6  |
| 132 | 87.0  | 60.9  | 113.1 |
| 130 | 91.1  | 62.0  | 115.2 |

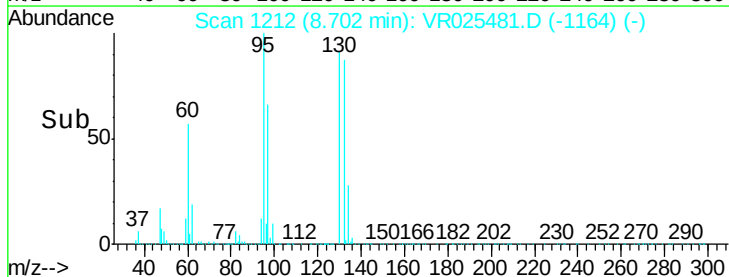
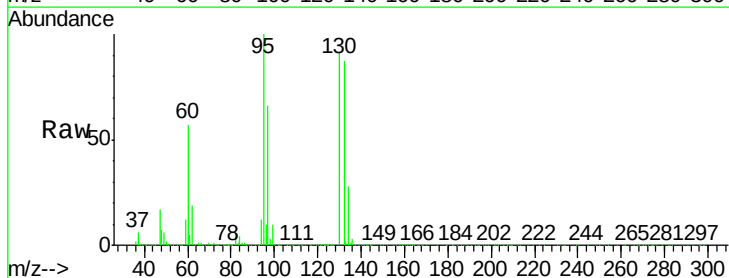
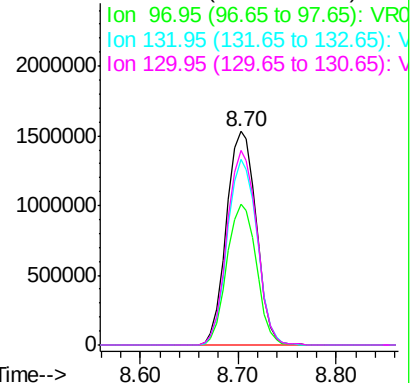
Ion 95.00 (94.70 to 95.70): VR0

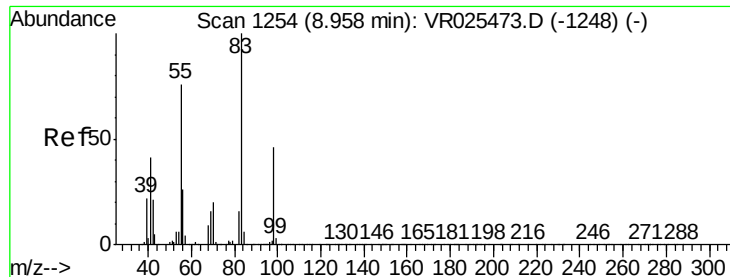
Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): VR0

Ion 129.95 (129.65 to 130.65): VR0

Abundance Ion 95.00 (94.70 to 95.70): VR0

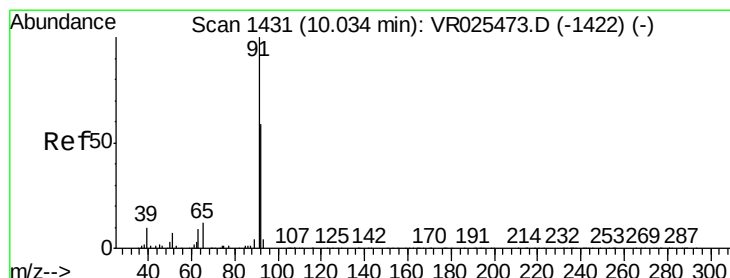
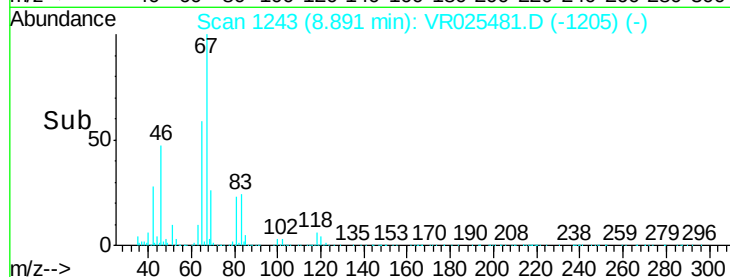
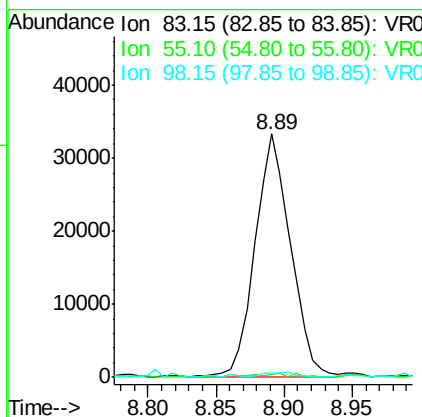
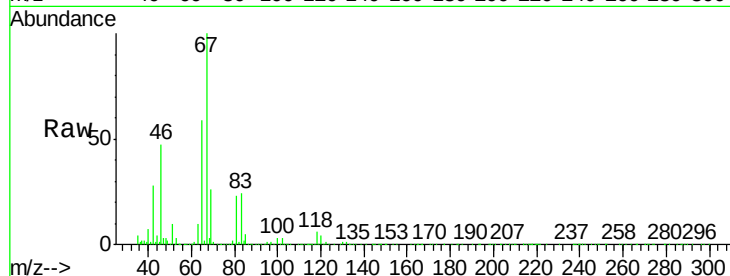




#35  
Methylcyclohexane  
Concen: 0.864 ug/L  
RT: 8.89 min Scan# 1243  
Delta R.T. -0.07 min  
Lab File: VR025481.D  
Acq: 16 Jul 2018 17:54

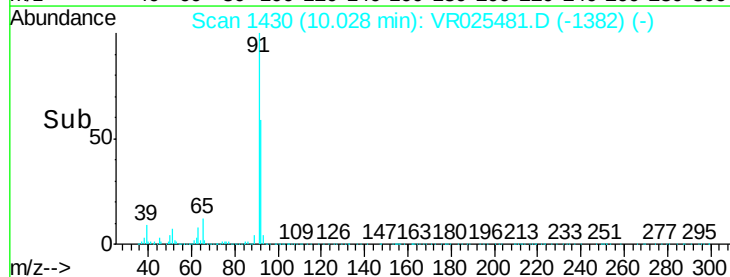
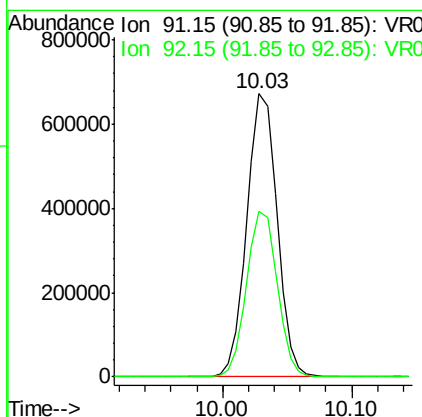
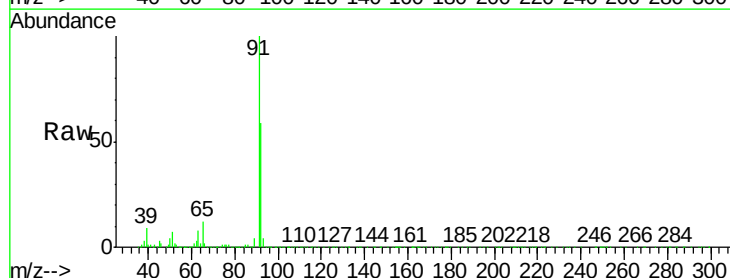
Instrument :  
MSVOA\_R  
ClientSampleId :  
C0AG4MS

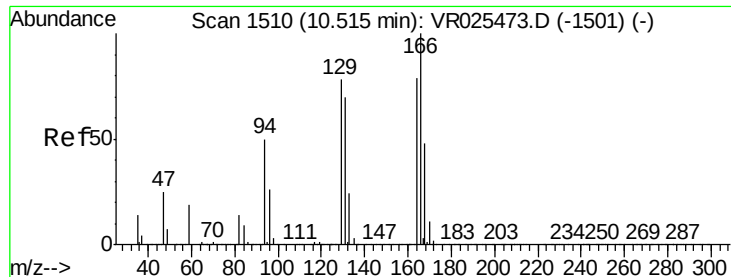
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 2.1   | 66.1  | 99.1# |
| 98      | 0.0   | 36.2  | 54.4# |



#42  
Toluene  
Concen: 5.456 ug/L  
RT: 10.03 min Scan# 1430  
Delta R.T. -0.01 min  
Lab File: VR025481.D  
Acq: 16 Jul 2018 17:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 58.5  | 41.9  | 77.7  |

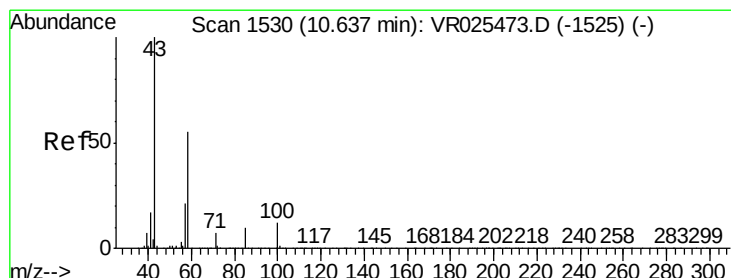
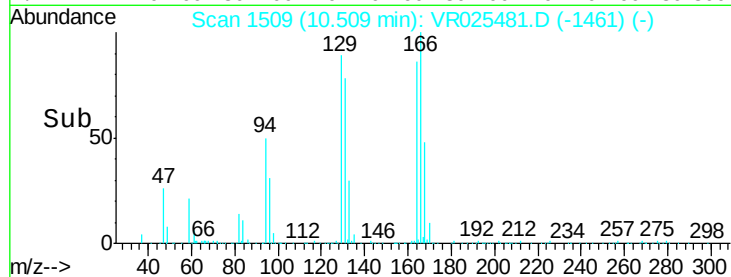
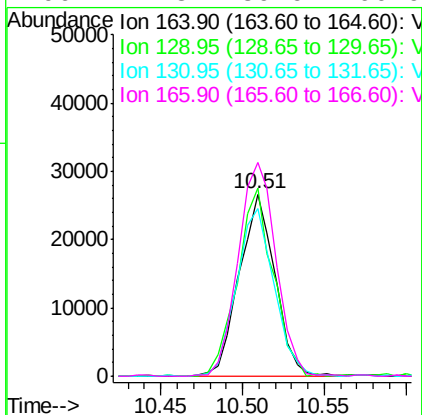
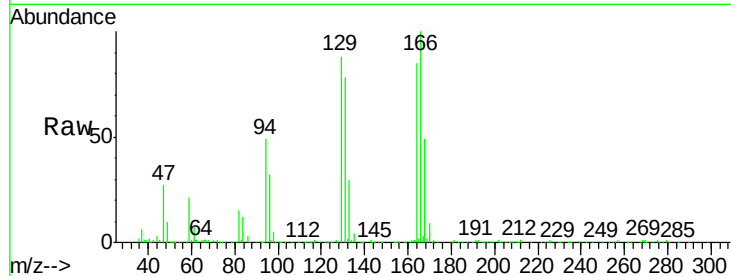




#47  
Tetrachloroethene  
Concen: 1.190 ug/L  
RT: 10.51 min Scan# 1509  
Delta R.T. -0.01 min  
Lab File: VR025481.D  
Acq: 16 Jul 2018 17:54

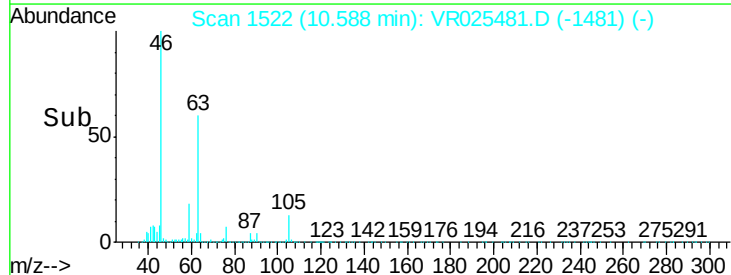
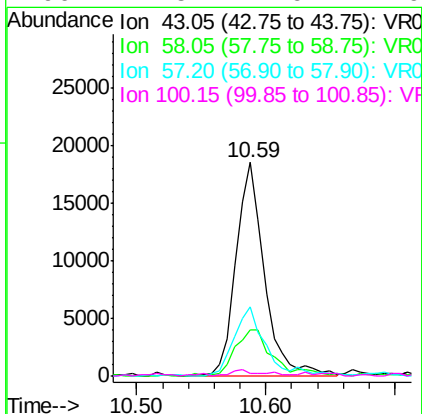
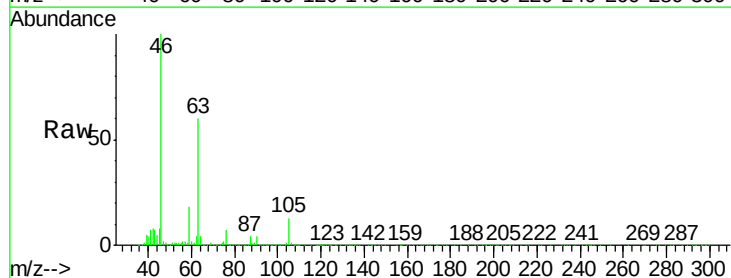
Instrument :  
MSVOA\_R  
ClientSampleId :  
C0AG4MS

Tgt Ion:164 Resp: 40646  
Ion Ratio Lower Upper  
164 100  
129 103.7 68.1 126.5  
131 91.8 68.5 127.1  
166 117.3 89.9 166.9

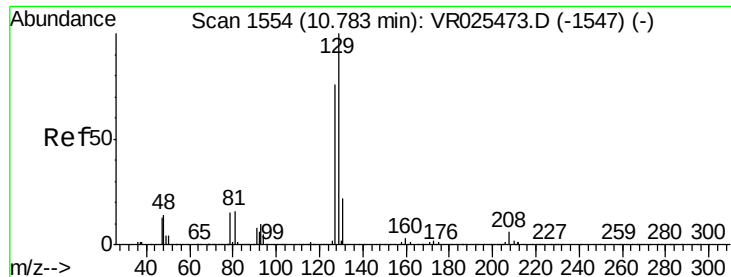


#48  
2-Hexanone  
Concen: 2.989 ug/L  
RT: 10.59 min Scan# 1522  
Delta R.T. -0.05 min  
Lab File: VR025481.D  
Acq: 16 Jul 2018 17:54

Tgt Ion: 43 Resp: 28456  
Ion Ratio Lower Upper  
43 100  
58 28.9 43.1 64.7#  
57 32.9 15.3 22.9#  
100 2.5 7.9 11.9#







#49

Dibromochloromethane

Concen: 1.332 ug/L

RT: 10.51 min Scan# 1509

Delta R.T. -0.27 min

Lab File: VR025481.D

Acq: 16 Jul 2018 17:54

Instrument :

MSVOA\_R

ClientSampleId :

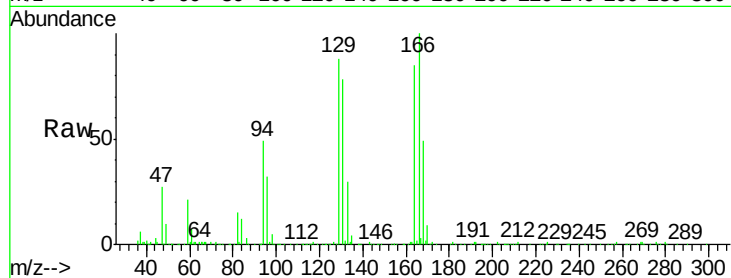
C0AG4MS

Tgt Ion:129 Resp: 32492

Ion Ratio Lower Upper

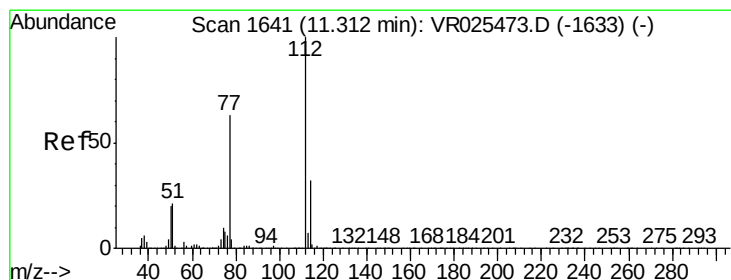
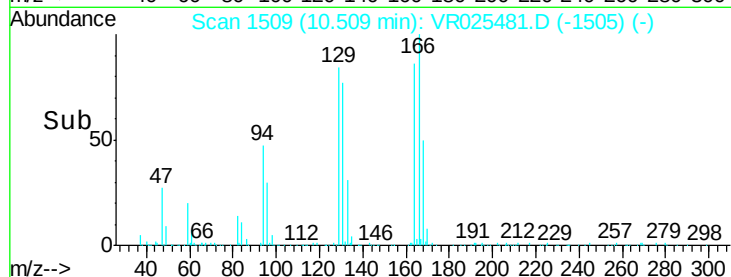
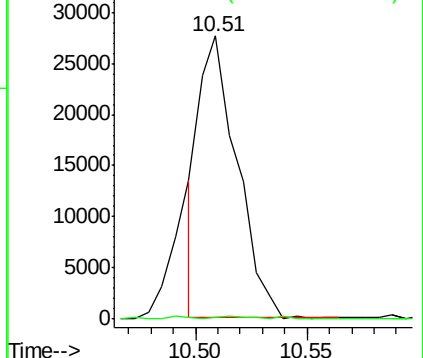
129 100

127 0.9 55.9 103.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#51

Chlorobenzene

Concen: 5.239 ug/L

RT: 11.31 min Scan# 1641

Delta R.T. 0.00 min

Lab File: VR025481.D

Acq: 16 Jul 2018 17:54

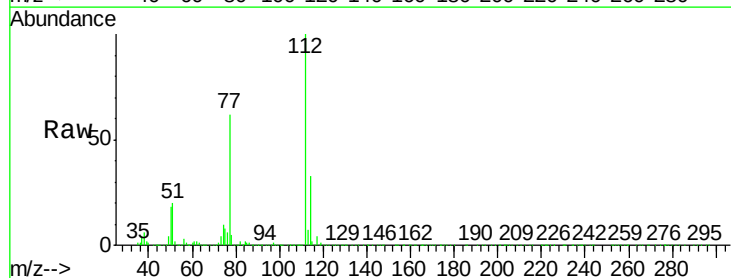
Tgt Ion:112 Resp: 637250

Ion Ratio Lower Upper

112 100

114 32.9 21.6 40.0

77 61.8 51.9 77.9



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

