

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022719\  
 Data File : VW008875.D  
 Acq On : 28 Feb 2019 02:08  
 Operator : SY/VA  
 Sample : VW0227SBS02  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0227SBS02

Quant Time: Feb 28 11:27:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 22 00:38:32 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 243959   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 379969   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 370617   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 198457   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 153316   | 67.01 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 134.02% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 135163   | 59.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 118.50% |      |
| 50) Toluene-d8            | 10.32  | 98  | 495227   | 56.23 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.46% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 196708   | 57.05 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 114.10% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 48998  | 20.053  | ug/l   | 92     |
| 3) Chloromethane              | 2.21 | 50  | 64703  | 21.754  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.35 | 62  | 63572  | 20.187  | ug/l   | 98     |
| 5) Bromomethane               | 2.75 | 94  | 58085  | 24.833  | ug/l   | 97     |
| 6) Chloroethane               | 2.90 | 64  | 47987  | 21.459  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 87809  | 22.047  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.68 | 74  | 34716  | 27.532  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 56129  | 23.207  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.27 | 142 | 57743  | 19.092  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.18 | 59  | 24686  | 121.186 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 48631  | 22.767  | ug/l   | 98     |
| 13) Acrolein                  | 3.89 | 56  | 18235  | 97.933  | ug/l   | 97     |
| 14) Allyl chloride            | 4.67 | 41  | 87829  | 23.824  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53  | 73483  | 135.789 | ug/l   | 99     |
| 16) Acetone                   | 4.13 | 43  | 65199  | 122.932 | ug/l   | 93     |
| 17) Carbon Disulfide          | 4.37 | 76  | 142249 | 20.072  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.67 | 43  | 33643  | 26.744  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 158201 | 27.363  | ug/l   | 99     |
| 20) Methylene Chloride        | 4.92 | 84  | 93947  | 34.360  | ug/l   | 88     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 60332  | 24.418  | ug/l   | 93     |
| 22) Diisopropyl ether         | 6.31 | 45  | 197158 | 26.809  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.26 | 43  | 613977 | 135.125 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 108770 | 25.524  | ug/l   | 98     |
| 25) 2-Butanone                | 7.17 | 43  | 102158 | 137.774 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 77180  | 19.949  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96  | 70317  | 26.605  | ug/l   | 93     |
| 28) Bromochloromethane        | 7.51 | 49  | 45706  | 25.630  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 64888  | 137.321 | ug/l   | 97     |
| 30) Chloroform                | 7.68 | 83  | 115704 | 26.466  | ug/l   | 100    |
| 31) Cyclohexane               | 7.95 | 56  | 95294  | 22.091  | ug/l   | 91     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 98880  | 24.871  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 85877  | 23.218  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 47751  | 27.762  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 84451  | 21.650  | ug/l   | 100    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022719\  
 Data File : VW008875.D  
 Acq On : 28 Feb 2019 02:08  
 Operator : SY/VA  
 Sample : VW0227SBS02  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0227SBS02

Quant Time: Feb 28 11:27:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 22 00:38:32 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 93405    | 20.246  | ug/l   | 97       |
| 40) Benzene                    | 8.32  | 78   | 241355   | 23.899  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 25720    | 25.439  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 80973    | 25.311  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 86463    | 25.187  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 69263    | 24.346  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 62678    | 25.116  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 35779    | 25.775  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.64  | 83   | 84146    | 24.915  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.43  | 41   | 38427    | 23.373  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 10630    | 478.195 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 220282   | 126.393 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 157497   | 22.980  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 82756    | 24.040  | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 96066    | 24.469  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 50192    | 26.662  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 58609    | 23.963  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 88299    | 26.566  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 156832   | 127.496 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 148810   | 119.948 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 59203    | 25.784  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 48511    | 26.034  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 69652    | 26.255  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 176995   | 22.712  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 64324    | 24.411  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.73 | 91   | 308164   | 22.120  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.84 | 106  | 245926   | 44.182  | ug/l   | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 116654   | 22.328  | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 192433   | 22.894  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 35084    | 24.770  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 306531   | 22.531  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.27 | 43   | 79011    | 23.055  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 56659    | 25.487  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 73926    | 45.117  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 78709    | 24.482  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.80 | 91   | 369808   | 22.221  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 217269   | 22.995  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 264845   | 22.401  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 14588    | 21.644  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 228804   | 22.979  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 234867   | 22.974  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 272837   | 22.293  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.38 | 105  | 323834   | 22.030  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 291544   | 21.635  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 153765   | 23.052  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 155182   | 23.605  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 258382   | 20.467  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 50980    | 23.109  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 140826   | 23.694  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 8832     | 21.963  | ug/l   | 94       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW022719\  
Data File : VW008875.D  
Acq On : 28 Feb 2019 02:08  
Operator : SY/VA  
Sample : VW0227SBSD02  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

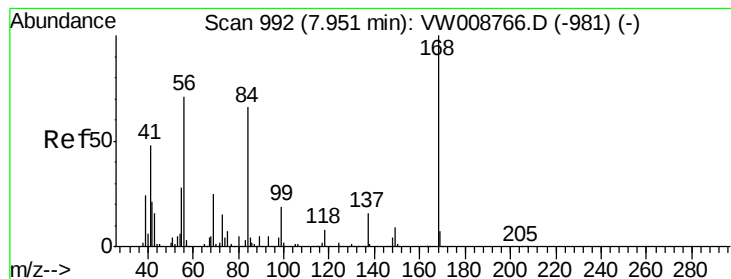
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

Quant Time: Feb 28 11:27:17 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 22 00:38:32 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 95162    | 22.222 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 55363    | 21.948 | ug/l  | 98       |
| 95) Naphthalene            | 15.37 | 128  | 170272   | 23.353 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 85553    | 23.106 | ug/l  | 97       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

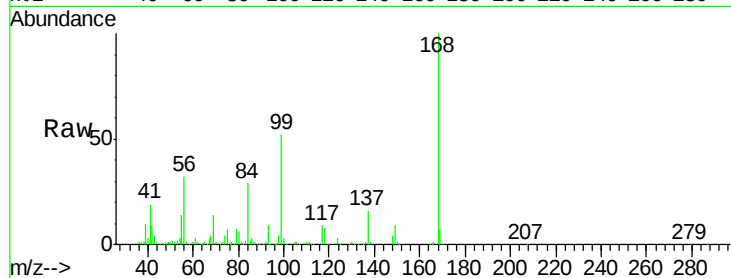
VW0227SBS02

Tot Ion:168 Resp: 243959

Ion Ratio Lower Upper

168 100

99 52.0 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

60000

40000

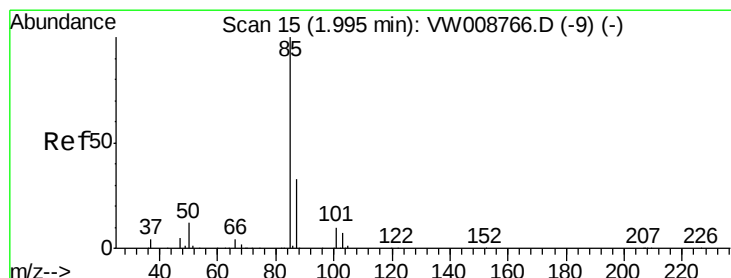
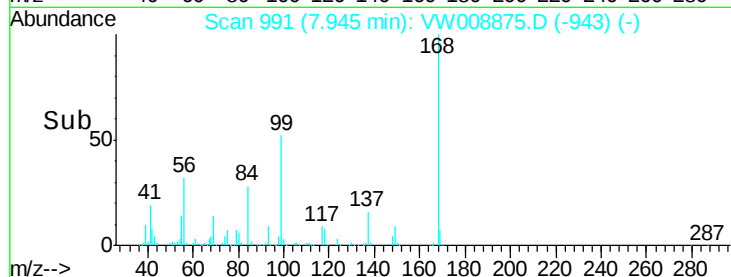
20000

0

7.90

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 20.053 ug/l

RT: 2.00 min Scan# 15

Delta R.T. 0.00 min

Lab File: VW008875.D

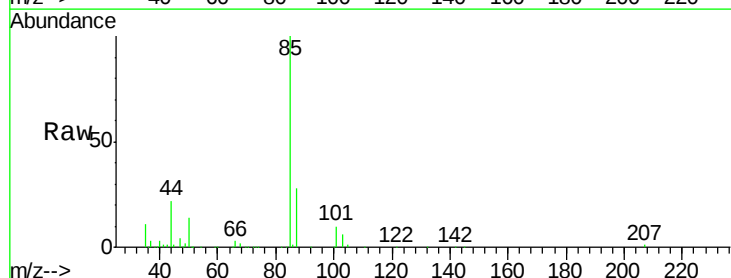
Acq: 28 Feb 2019 02:08

Tgt Ion: 85 Resp: 48998

Ion Ratio Lower Upper

85 100

87 28.3 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

30000

20000

10000

0

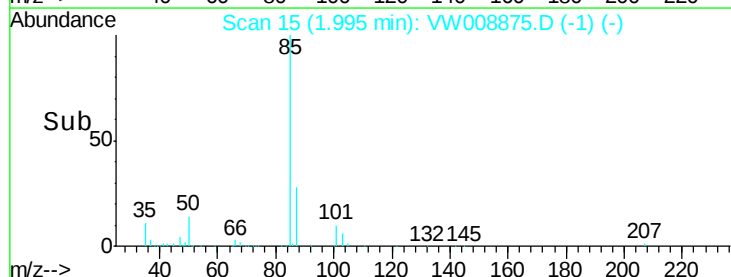
1.95

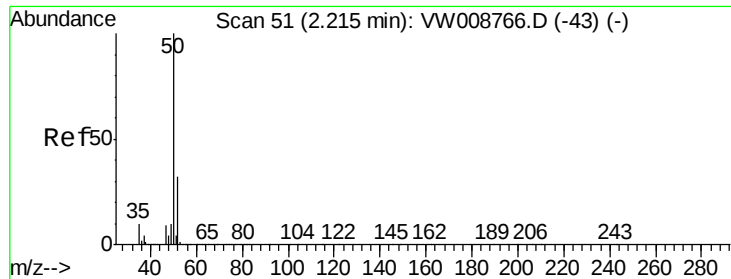
2.00

2.05

2.10

Time-->





#3

Chloromethane

Concen: 21.754 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

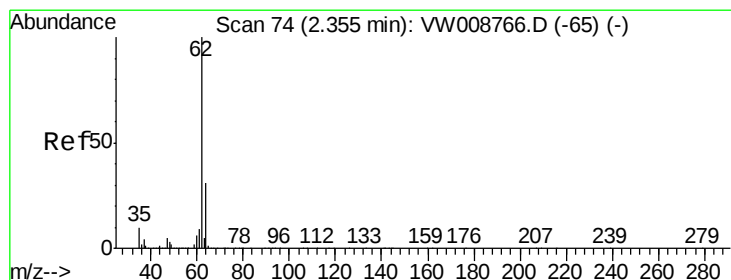
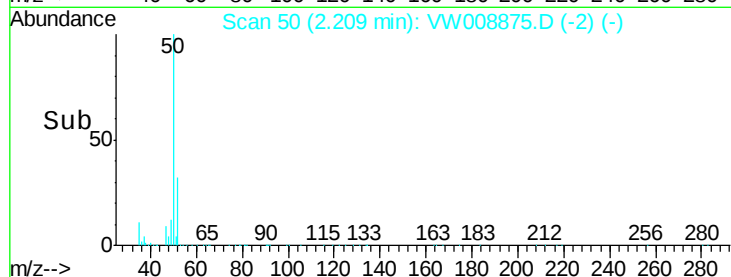
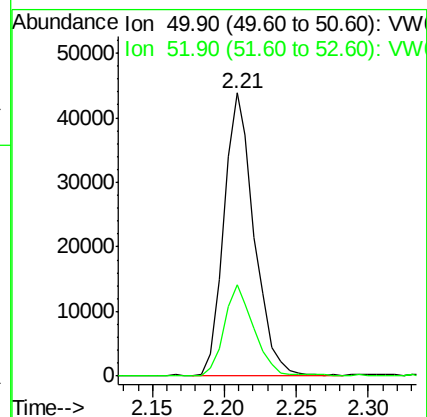
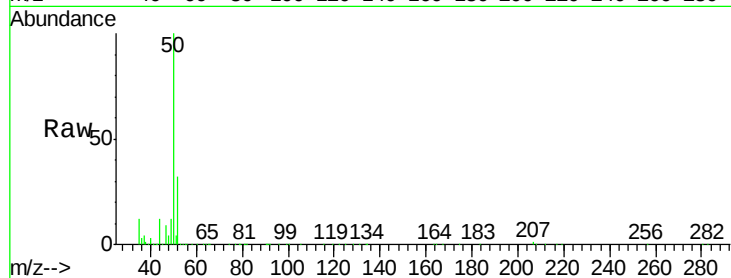
VW0227SBSD02

Tot Ion: 50 Resp: 64703

Ion Ratio Lower Upper

50 100

52 32.5 25.9 38.9



#4

Vinyl Chloride

Concen: 20.187 ug/l

RT: 2.35 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW008875.D

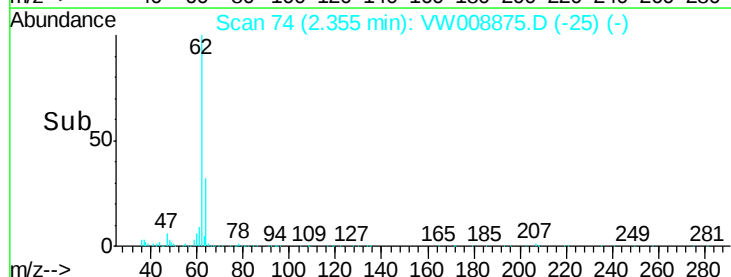
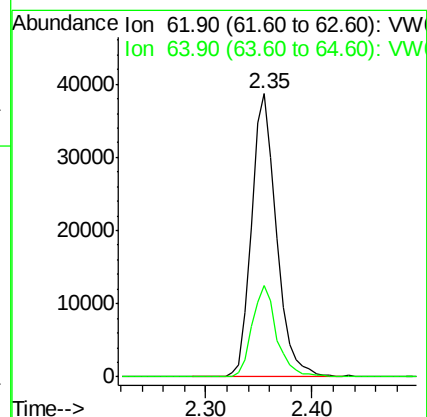
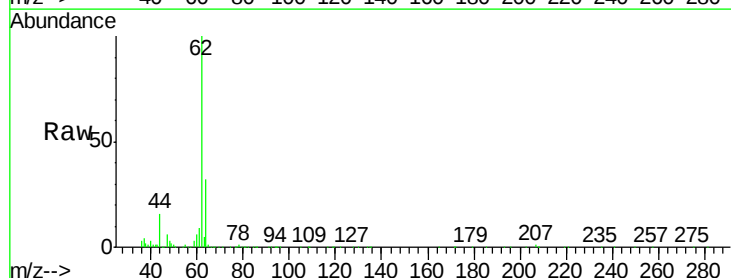
Acq: 28 Feb 2019 02:08

Tgt Ion: 62 Resp: 63572

Ion Ratio Lower Upper

62 100

64 32.3 24.9 37.3





#5

Bromomethane

Concen: 24.833 ug/l

RT: 2.75 min Scan# 139

Delta R.T. -0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

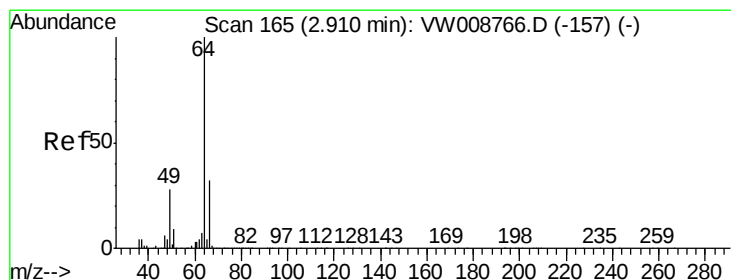
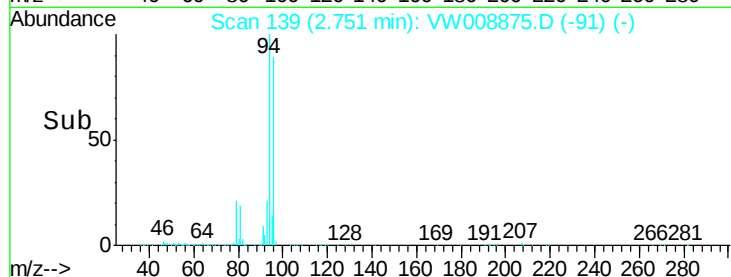
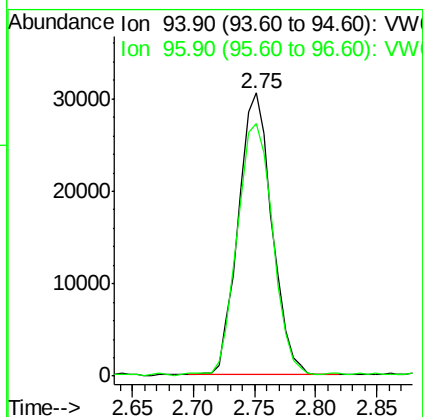
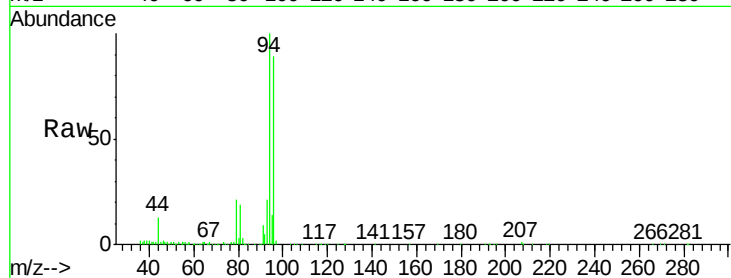
VW0227SBSD02

Tot Ion: 94 Resp: 58085

Ion Ratio Lower Upper

94 100

96 88.9 73.4 110.2



#6

Chloroethane

Concen: 21.459 ug/l

RT: 2.90 min Scan# 164

Delta R.T. -0.01 min

Lab File: VW008875.D

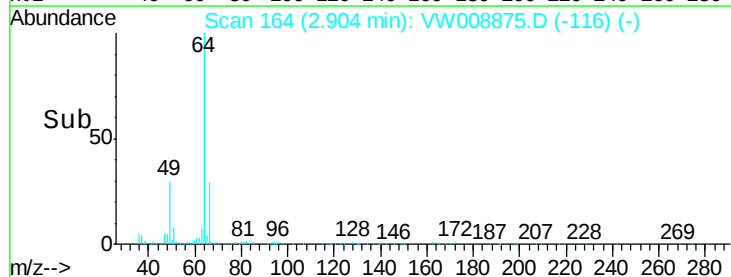
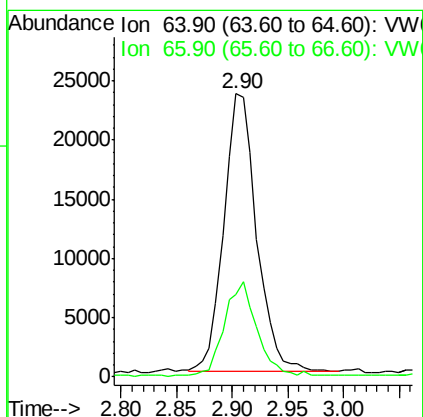
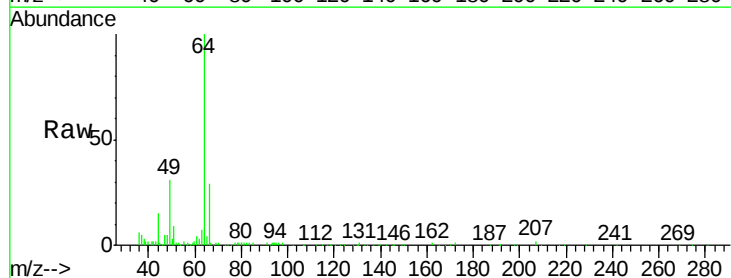
Acq: 28 Feb 2019 02:08

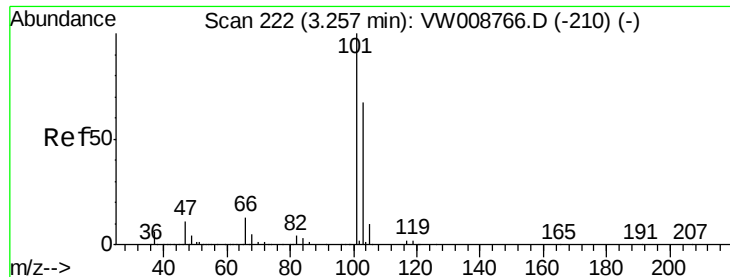
Tgt Ion: 64 Resp: 47987

Ion Ratio Lower Upper

64 100

66 29.3 25.5 38.3



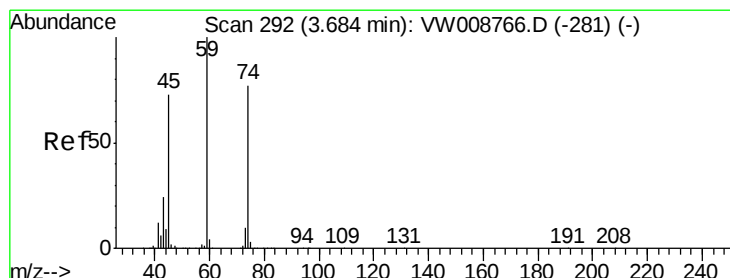
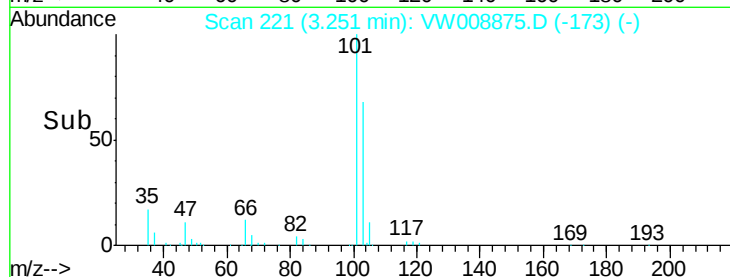
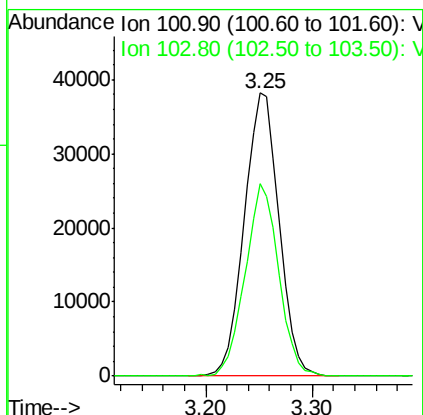
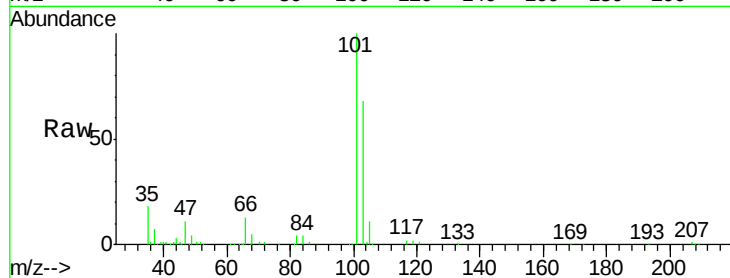


#7

Trichlorofluoromethane  
Concen: 22.047 ug/l  
RT: 3.25 min Scan# 221  
Delta R.T. -0.01 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

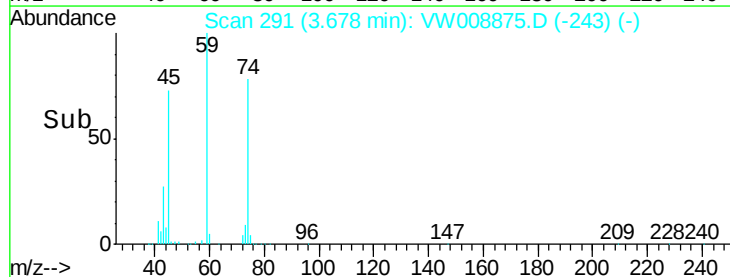
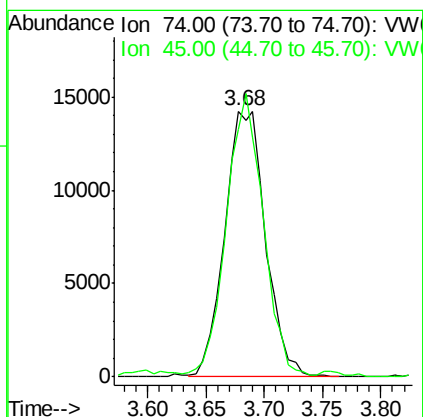
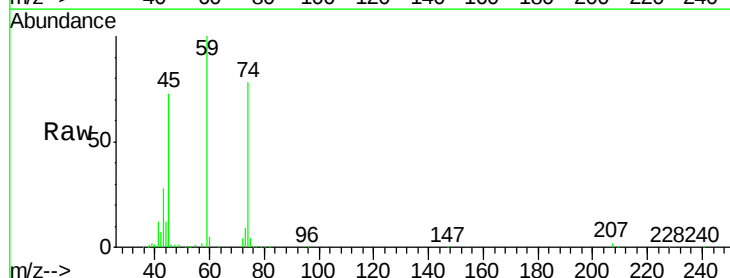
Tot Ion:101 Resp: 87809  
Ion Ratio Lower Upper  
101 100  
103 68.0 53.9 80.9



#8

Diethyl Ether  
Concen: 27.532 ug/l  
RT: 3.68 min Scan# 291  
Delta R.T. -0.01 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion: 74 Resp: 34716  
Ion Ratio Lower Upper  
74 100  
45 95.9 50.2 150.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.207 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

VW0227SBSD02

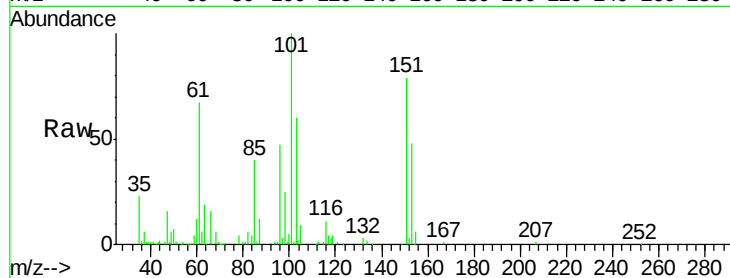
Tot Ion:101 Resp: 56129

Ion Ratio Lower Upper

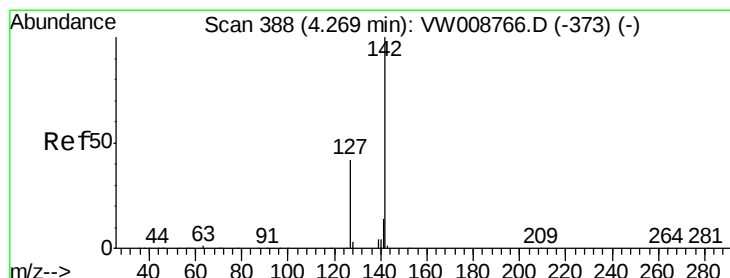
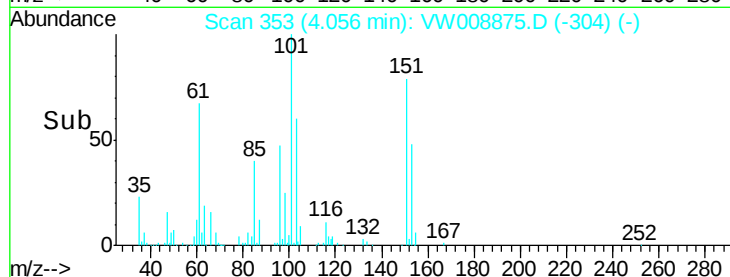
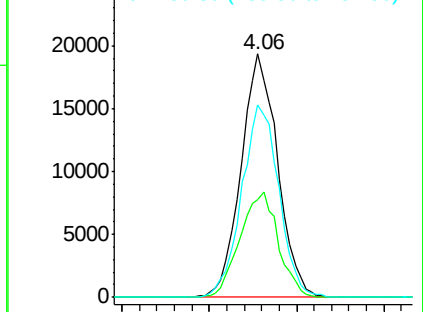
101 100

85 45.1 36.0 54.0

151 80.5 65.5 98.3



Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 84.90 (84.60 to 85.60): V  
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.092 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

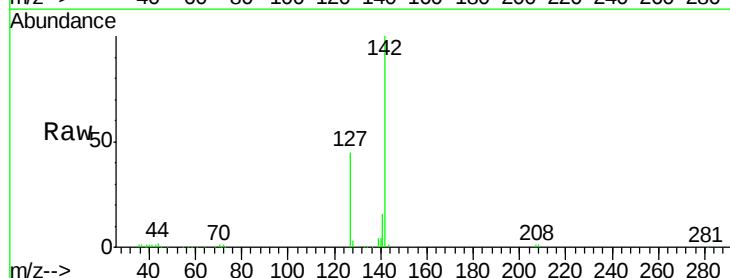
Tgt Ion:142 Resp: 57743

Ion Ratio Lower Upper

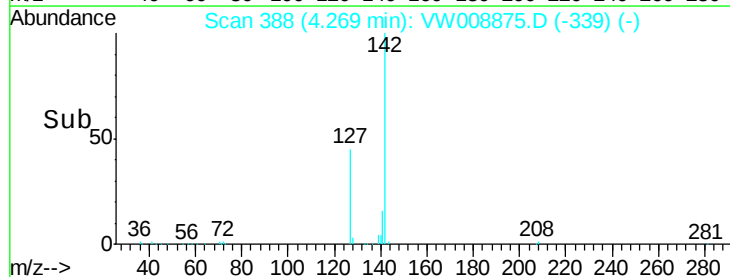
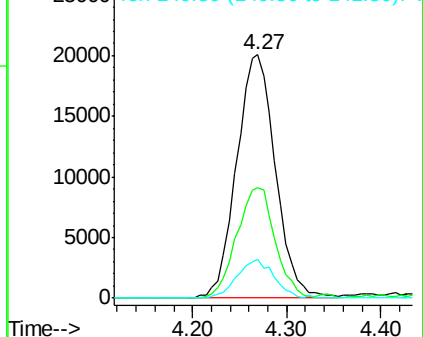
142 100

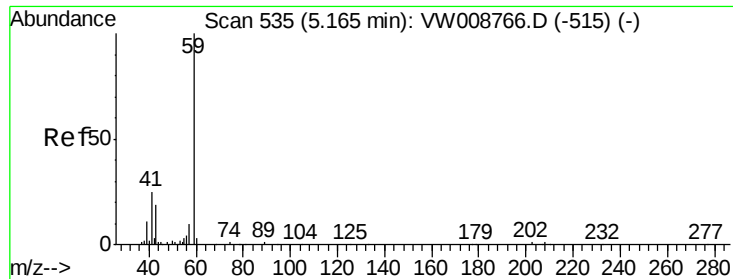
127 44.9 35.3 52.9

141 15.0 11.7 17.5



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V



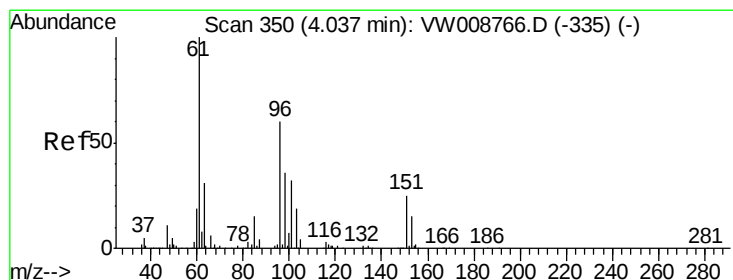
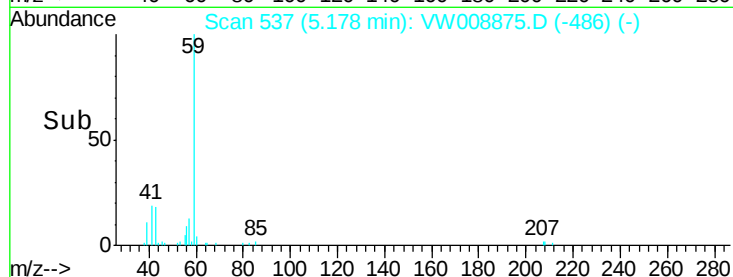
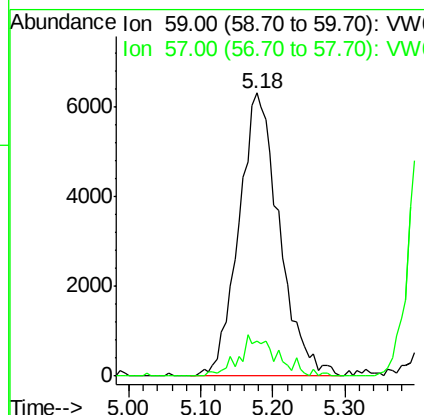
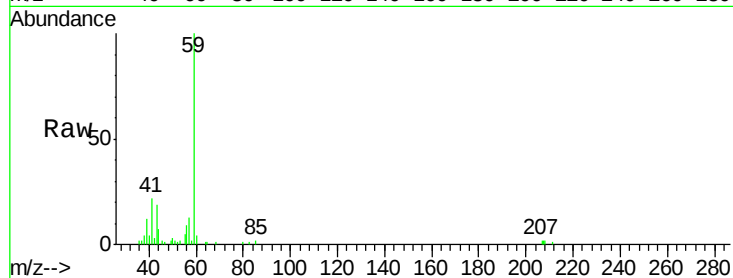


#11

Tert butyl alcohol  
 Concen: 121.186 ug/l  
 RT: 5.18 min Scan# 537  
 Delta R.T. 0.01 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0227SBS02

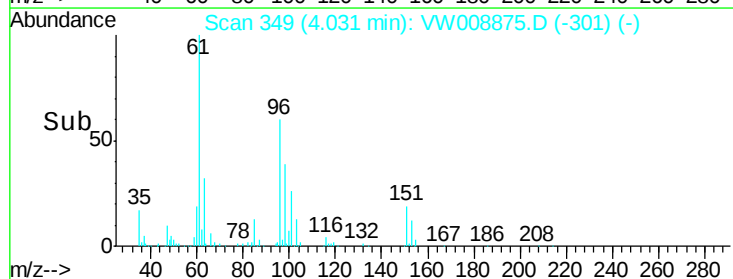
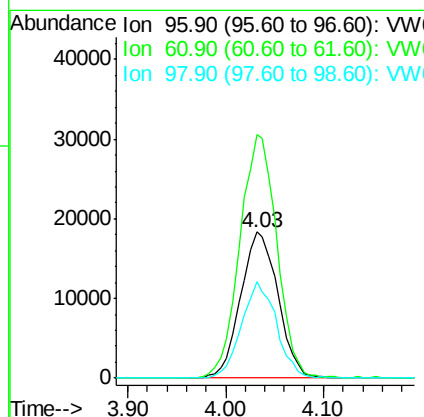
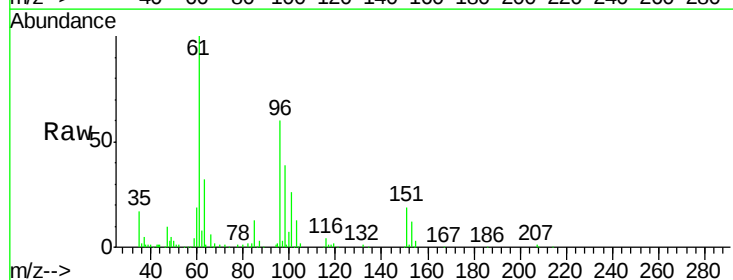
Tot Ion: 59 Resp: 24686  
 Ion Ratio Lower Upper  
 59 100  
 57 8.5 9.3 13.9#

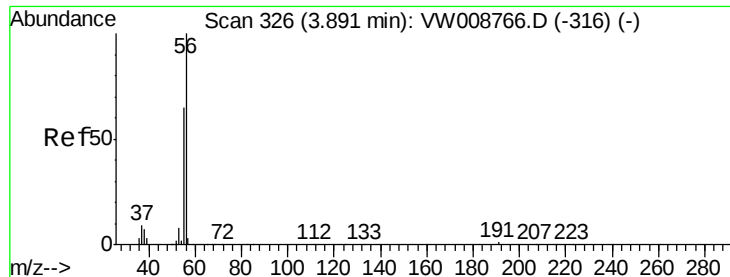


#12

1,1-Dichloroethene  
 Concen: 22.767 ug/l  
 RT: 4.03 min Scan# 349  
 Delta R.T. -0.01 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

Tgt Ion: 96 Resp: 48631  
 Ion Ratio Lower Upper  
 96 100  
 61 166.4 132.5 198.7  
 98 65.6 48.2 72.4





#13

Acrolein

Concen: 97.933 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

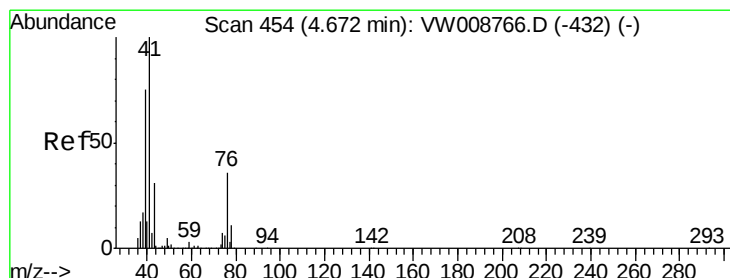
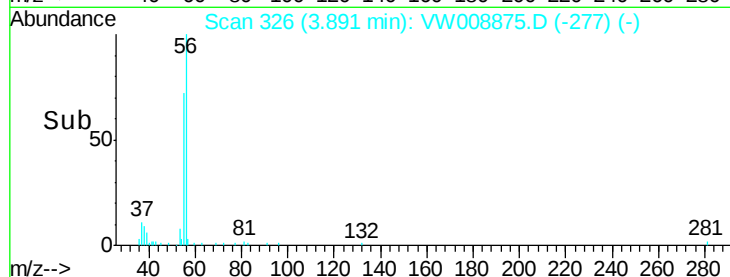
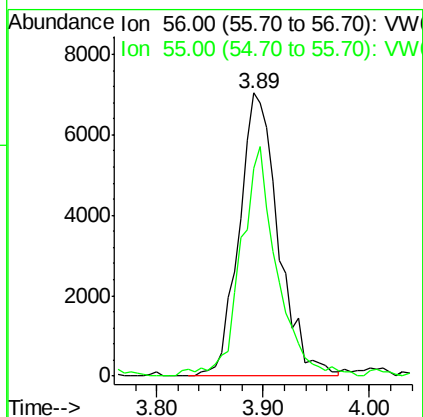
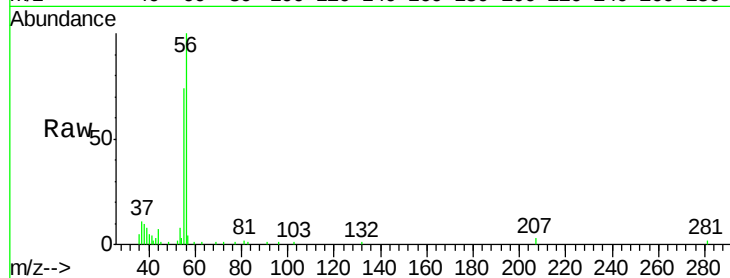
VW0227SBSD02

Tot Ion: 56 Resp: 18235

Ion Ratio Lower Upper

56 100

55 73.6 56.9 85.3



#14

Allyl chloride

Concen: 23.824 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

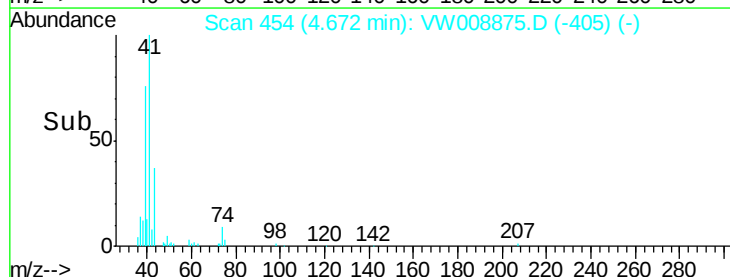
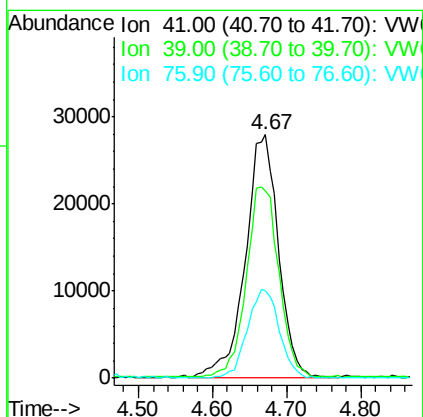
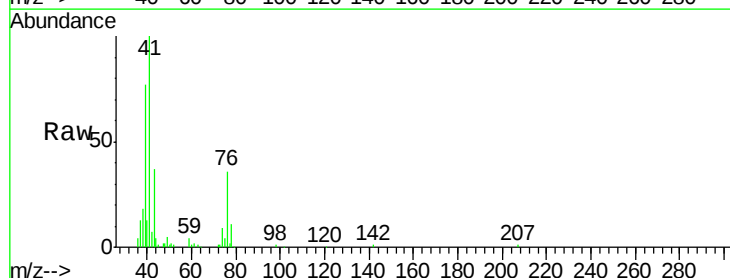
Tgt Ion: 41 Resp: 87829

Ion Ratio Lower Upper

41 100

39 76.2 60.6 91.0

76 34.9 28.6 42.8





#15

Acrylonitrile

Concen: 135.789 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

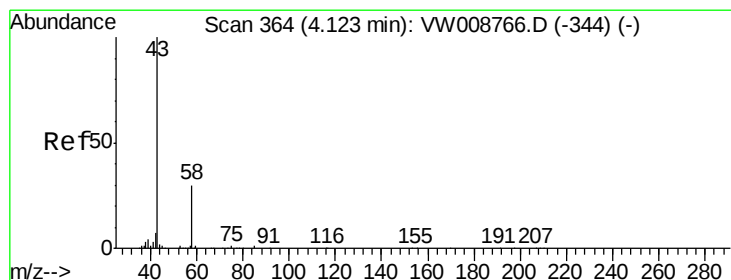
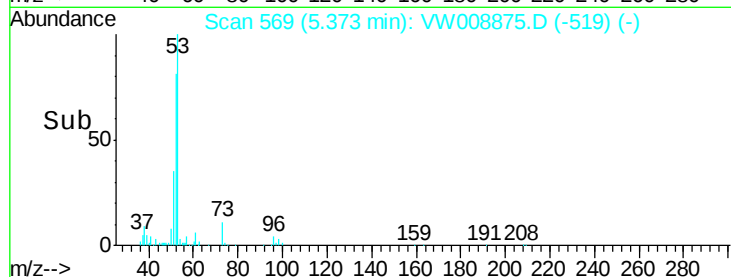
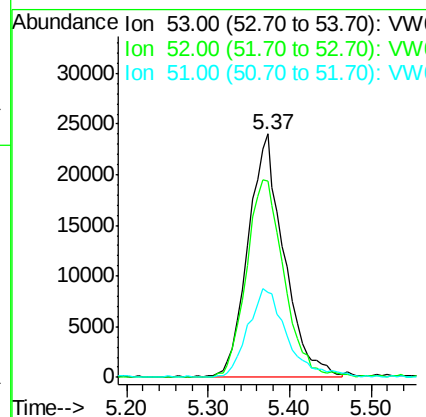
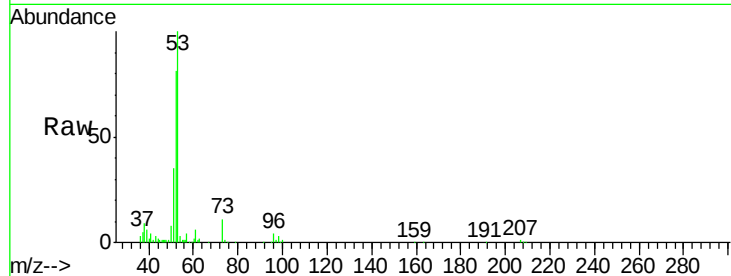
MSVOA\_W

ClientSampleId :

VW0227SBS02

Tot Ion: 53 Resp: 73483

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 84.9  | 67.2  | 100.8 |
| 51  | 40.0  | 31.1  | 46.7  |



#16

Acetone

Concen: 122.932 ug/l

RT: 4.13 min Scan# 365

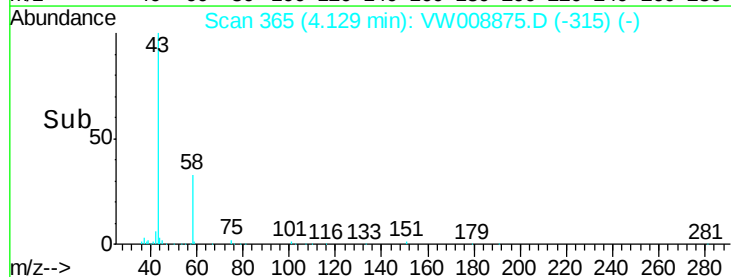
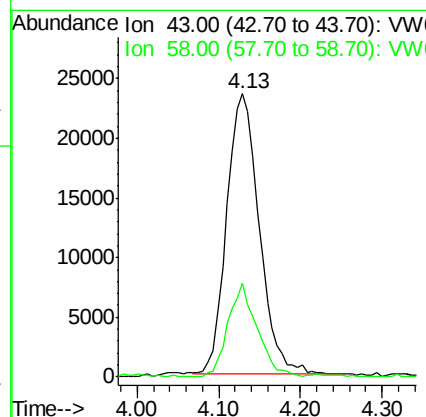
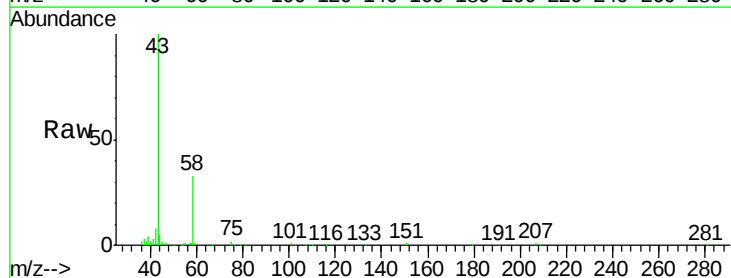
Delta R.T. 0.01 min

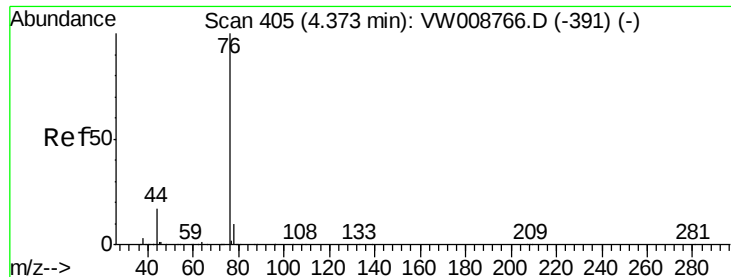
Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Tgt Ion: 43 Resp: 65199

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 33.5  | 23.8  | 35.6  |





#17

Carbon Disulfide

Concen: 20.072 ug/l

RT: 4.37 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

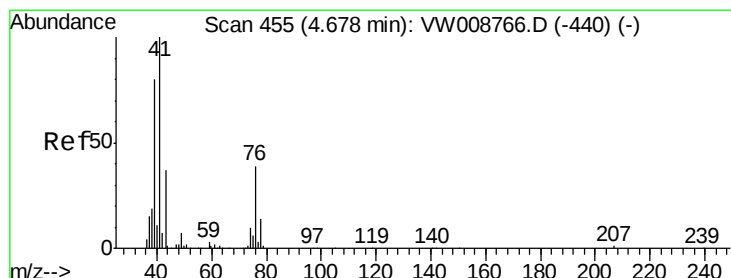
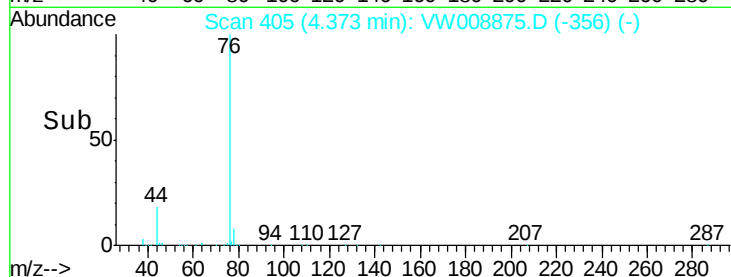
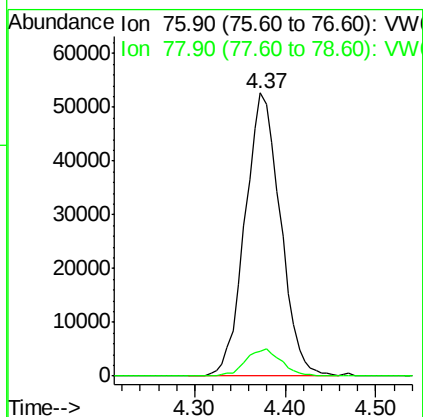
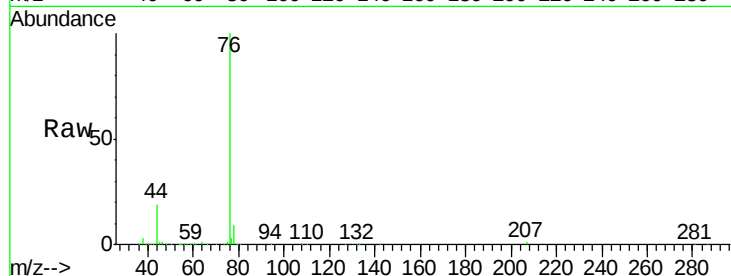
VW0227SBSD02

Tot Ion: 76 Resp: 142249

Ion Ratio Lower Upper

76 100

78 9.0 7.8 11.8



#18

Methyl Acetate

Concen: 26.744 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW008875.D

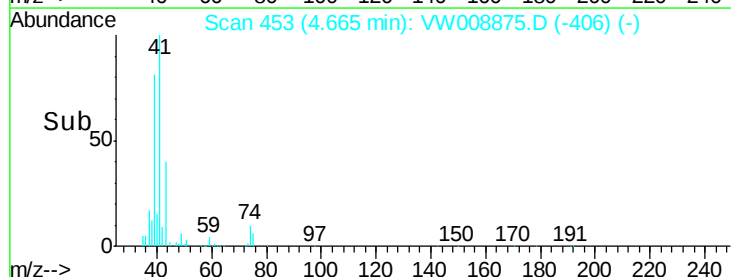
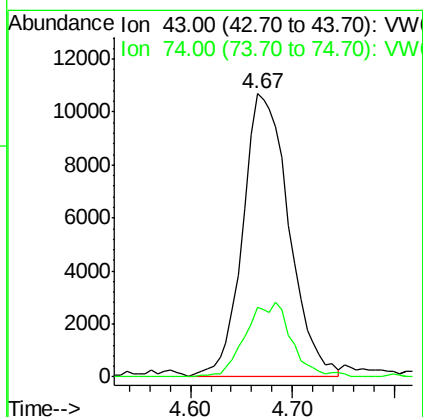
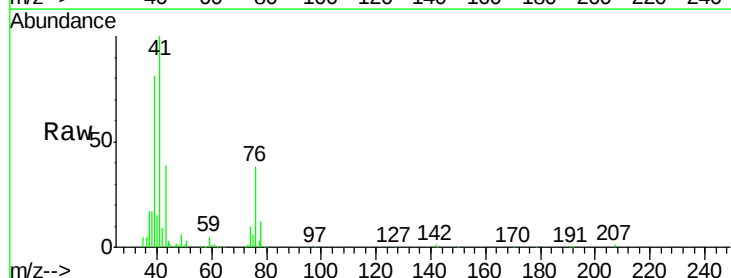
Acq: 28 Feb 2019 02:08

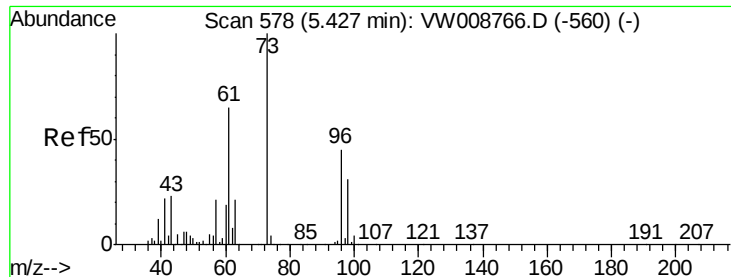
Tgt Ion: 43 Resp: 33643

Ion Ratio Lower Upper

43 100

74 26.0 19.4 29.2

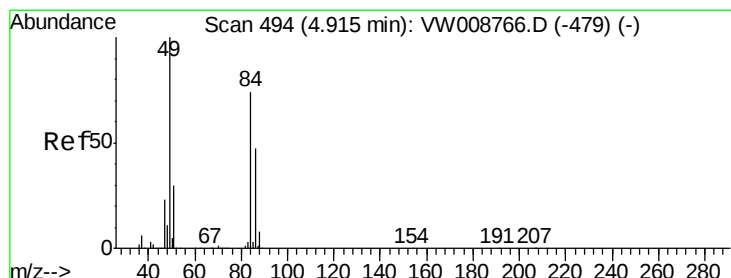
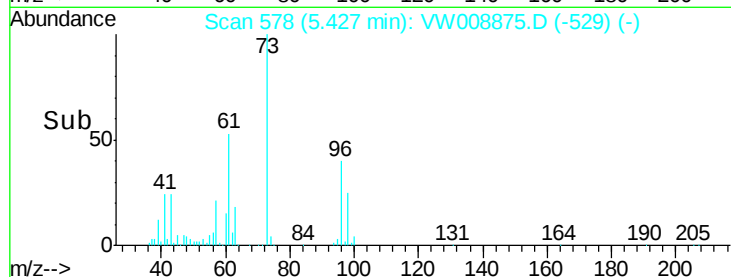
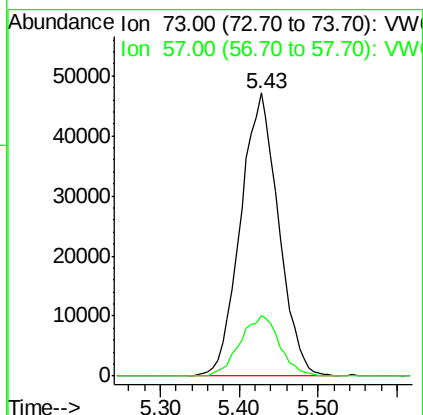
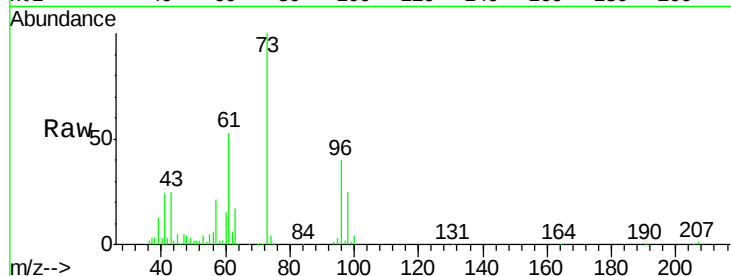




#19  
Methvl tert-butvl Ether  
Concen: 27.363 ug/l  
RT: 5.43 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

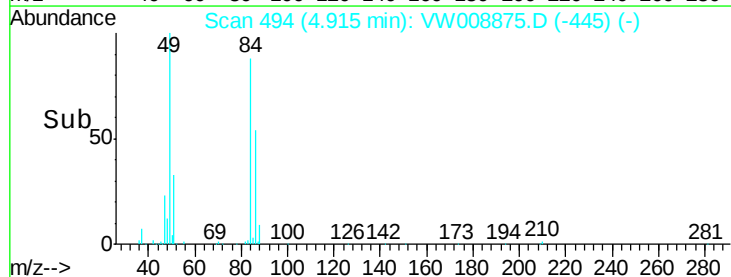
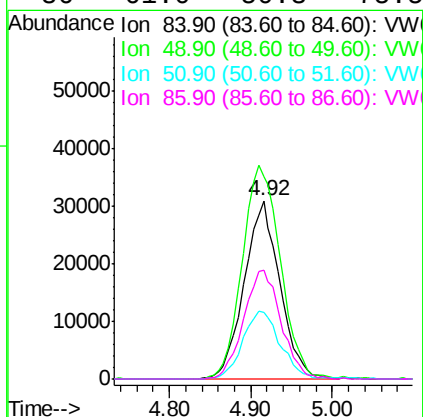
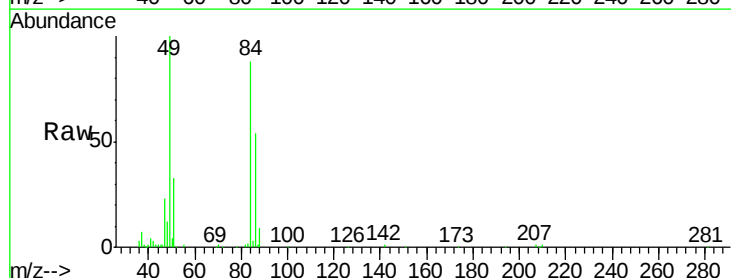
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

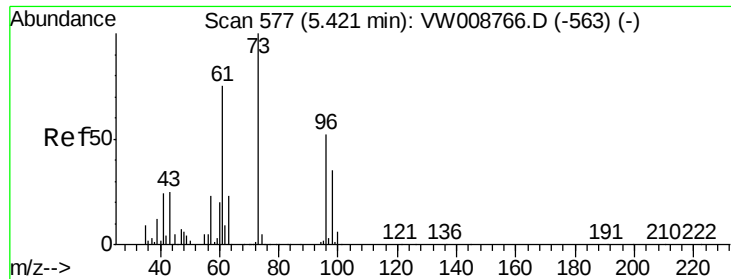
Tot Ion: 73 Resp: 158201  
Ion Ratio Lower Upper  
73 100  
57 21.3 16.8 25.2



#20  
Methylene Chloride  
Concen: 34.360 ug/l  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion: 84 Resp: 93947  
Ion Ratio Lower Upper  
84 100  
49 113.5 108.2 162.2  
51 37.4 32.7 49.1  
86 61.0 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 24.418 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

VW0227SBSD02

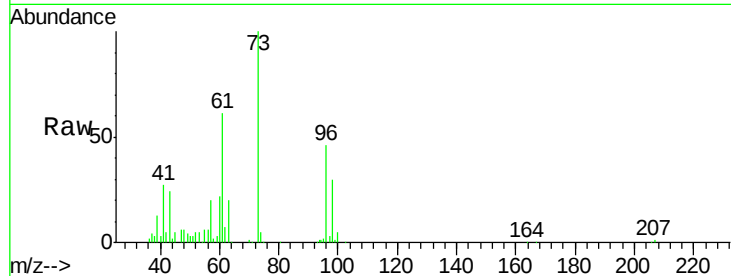
Tot Ion: 96 Resp: 60332

Ion Ratio Lower Upper

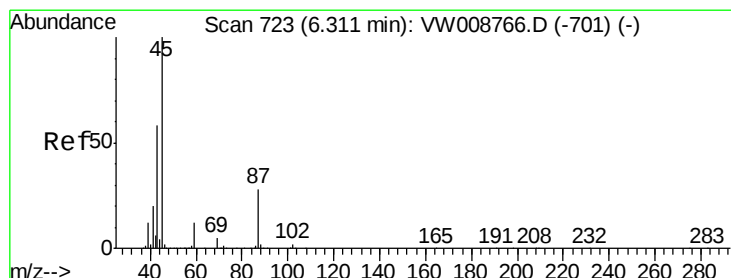
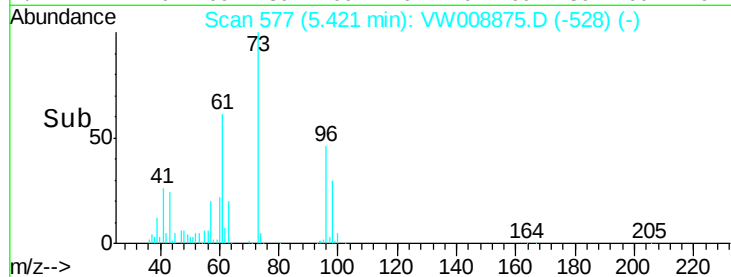
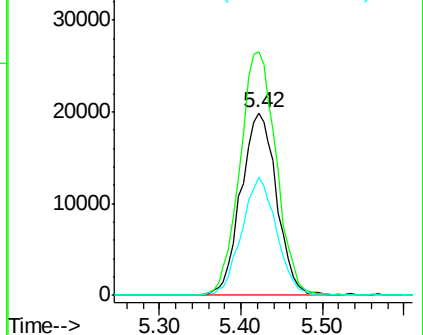
96 100

61 133.2 114.6 171.8

98 64.8 54.0 81.0



Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 26.809 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Tgt Ion: 45 Resp: 197158

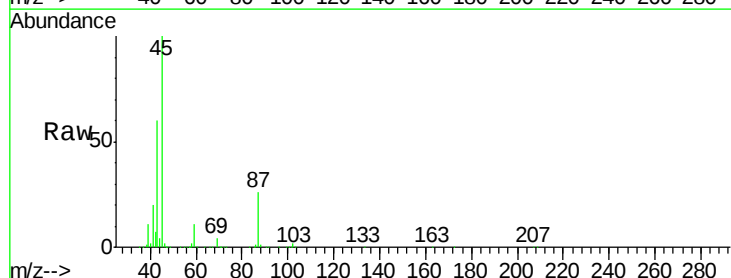
Ion Ratio Lower Upper

45 100

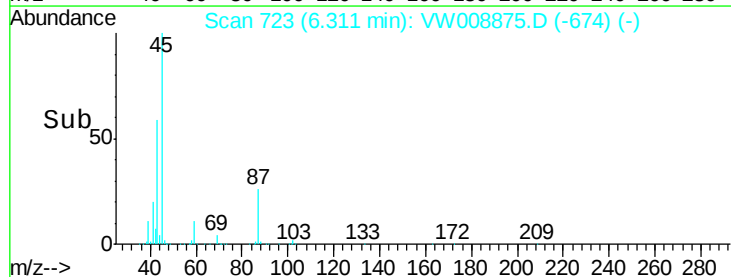
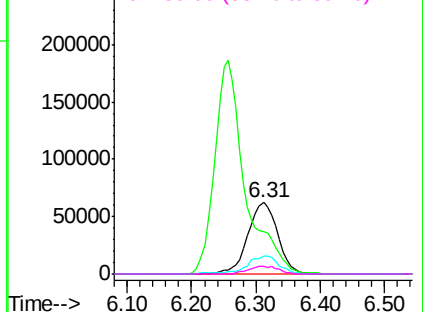
43 59.1 46.1 69.1

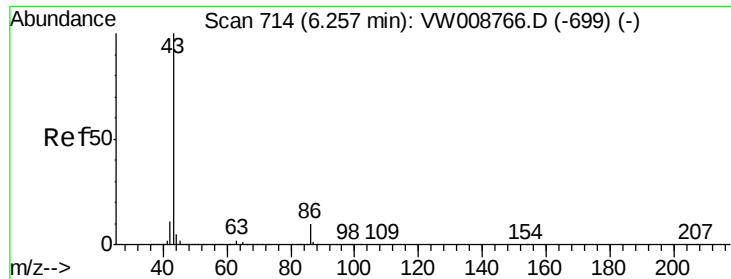
87 25.9 22.2 33.4

59 10.8 10.0 15.0



Abundance Ion 45.00 (44.70 to 45.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 87.00 (86.70 to 87.70): VW  
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 135.125 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

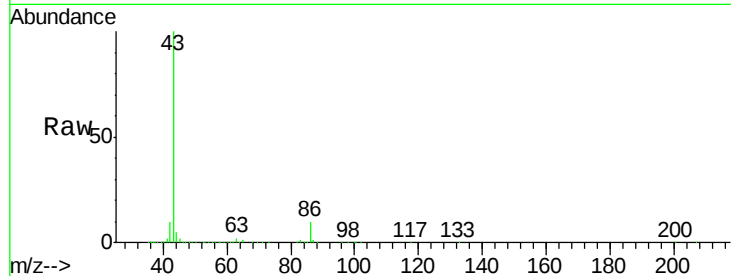
VW0227SBSD02

Tot Ion: 43 Resp: 613977

Ion Ratio Lower Upper

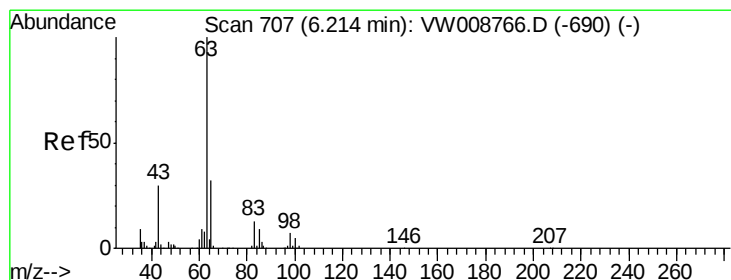
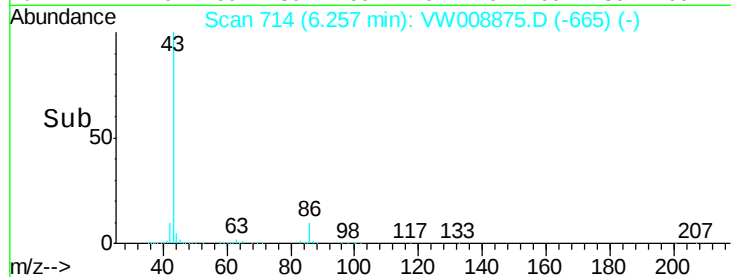
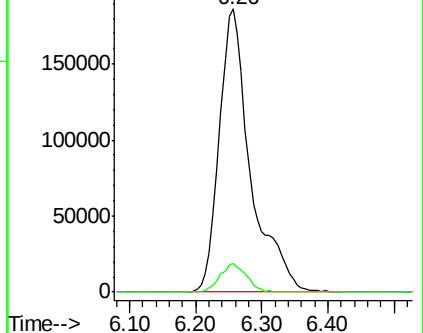
43 100

86 10.3 8.1 12.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 25.524 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

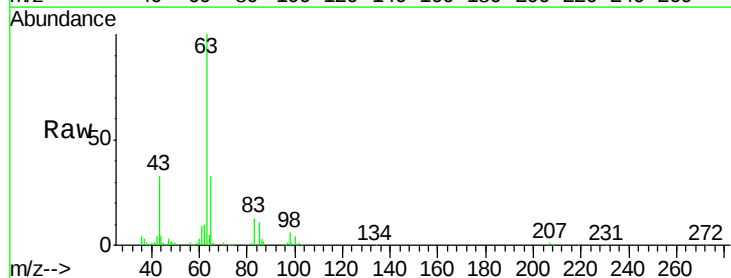
Tgt Ion: 63 Resp: 108770

Ion Ratio Lower Upper

63 100

98 6.2 3.5 10.6

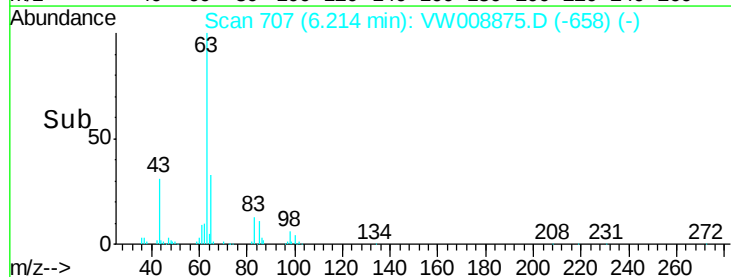
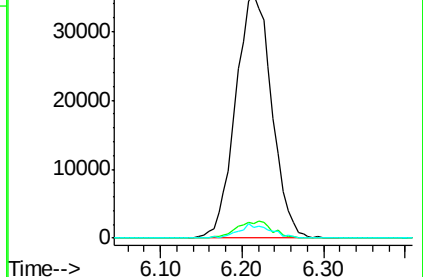
100 4.3 2.4 7.2

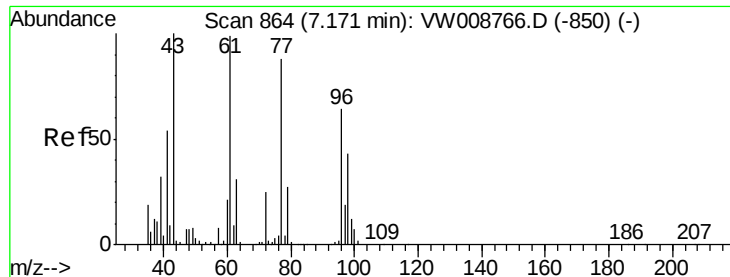


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 137.774 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

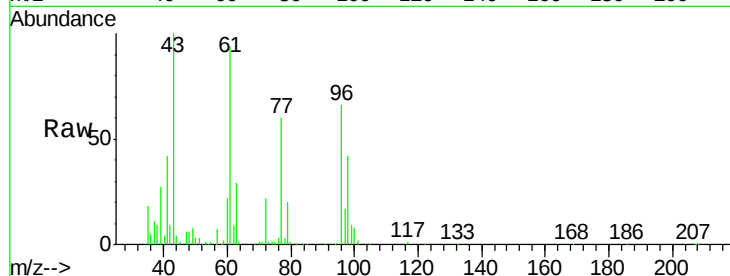
VW0227SBSD02

Tot Ion: 43 Resp: 102158

Ion Ratio Lower Upper

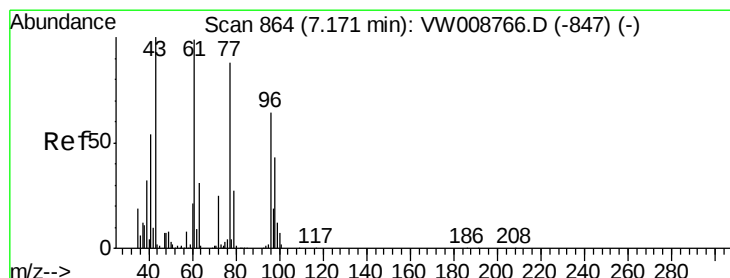
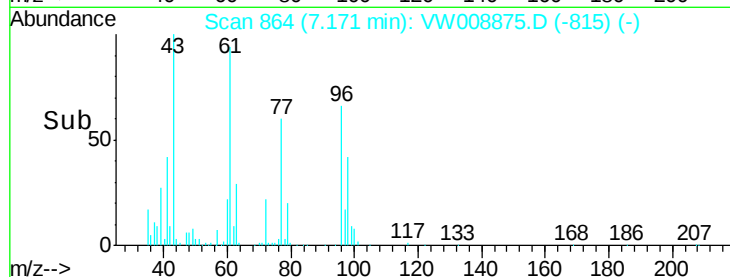
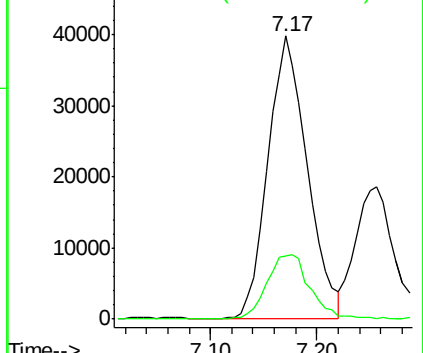
43 100

72 22.5 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 19.949 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW008875.D

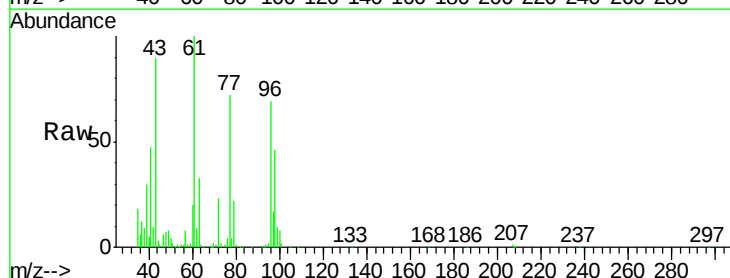
Acq: 28 Feb 2019 02:08

Tgt Ion: 77 Resp: 77180

Ion Ratio Lower Upper

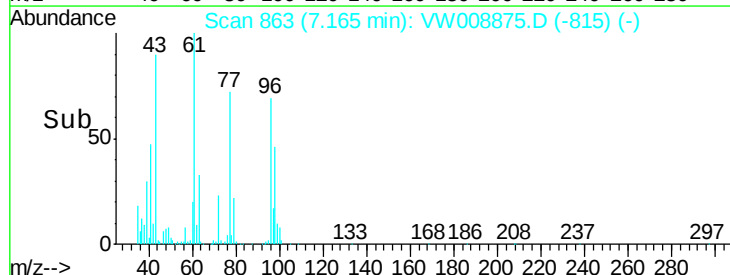
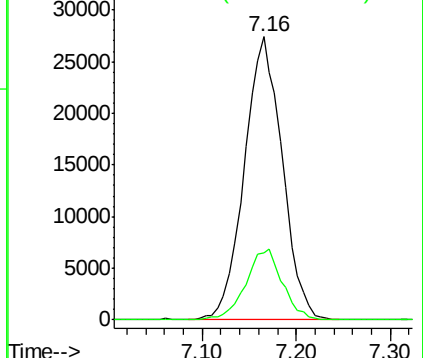
77 100

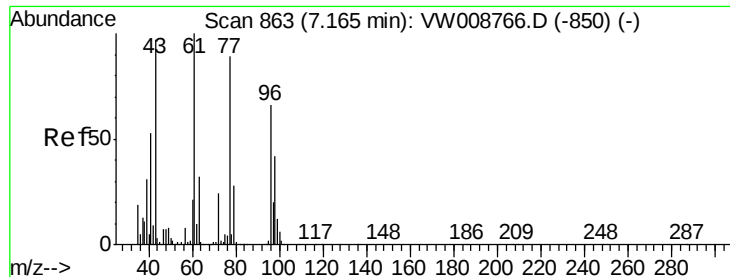
97 24.2 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



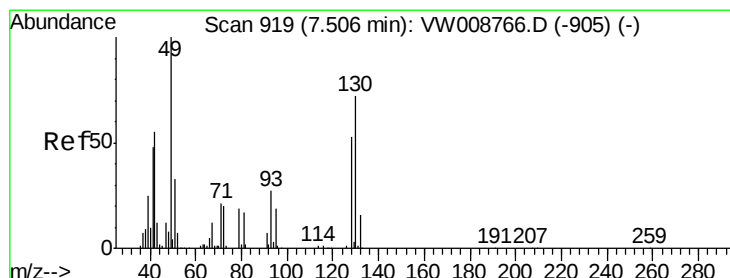
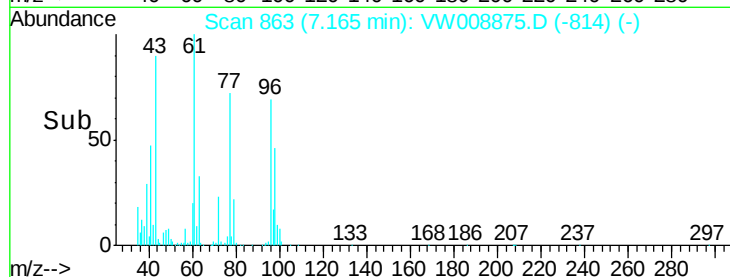
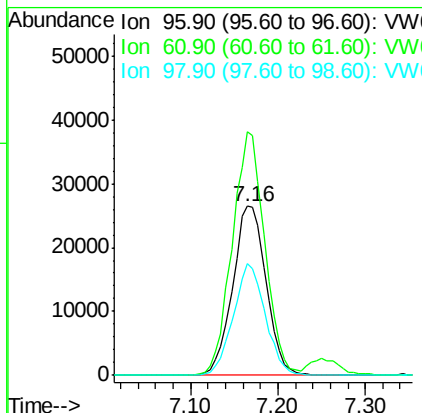
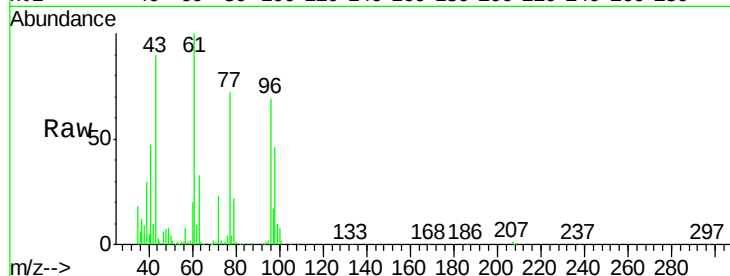


#27

cis-1,2-Dichloroethene  
Concen: 26.605 ug/l  
RT: 7.16 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

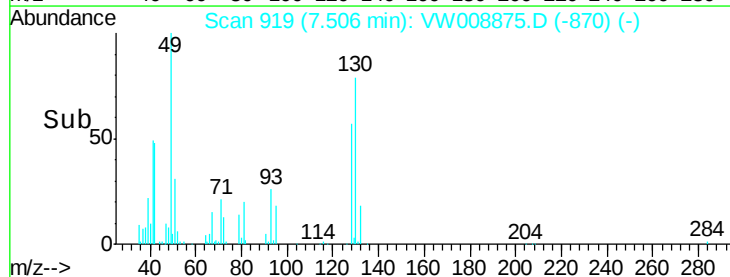
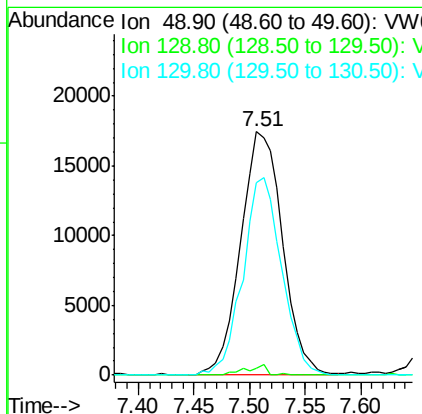
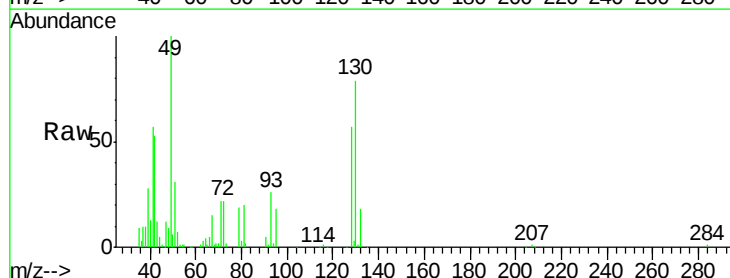
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 140.1 | 0.0   | 302.6 |
| 98      | 63.2  | 0.0   | 130.0 |

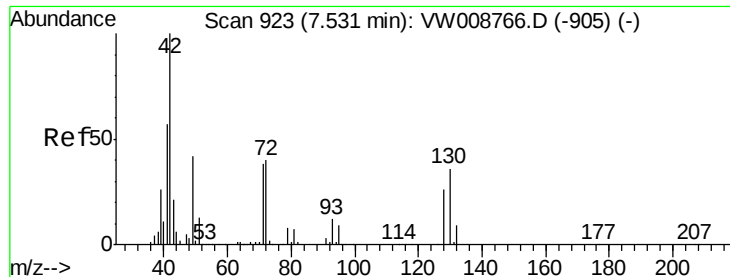


#28

Bromochloromethane  
Concen: 25.630 ug/l  
RT: 7.51 min Scan# 919  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.0   | 0.0   | 2.6   |
| 130     | 75.2  | 61.3  | 91.9  |

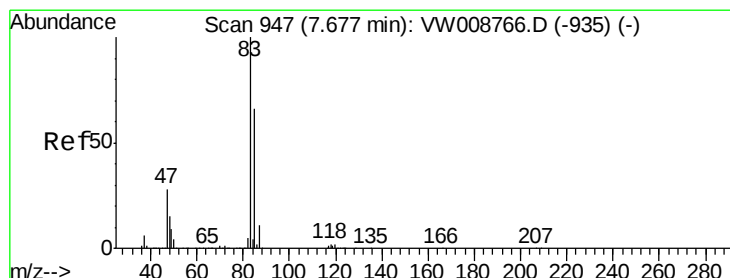
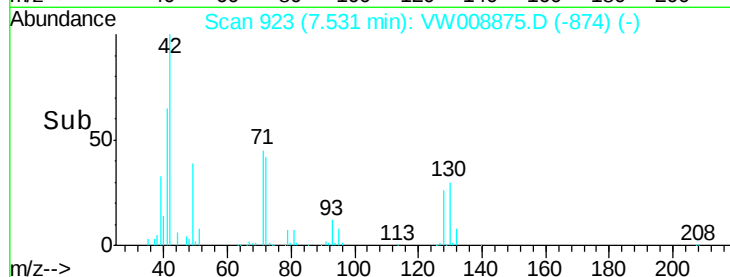
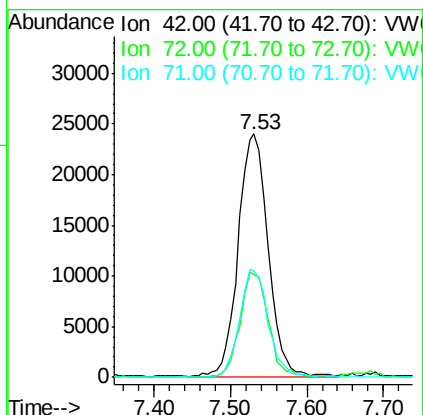
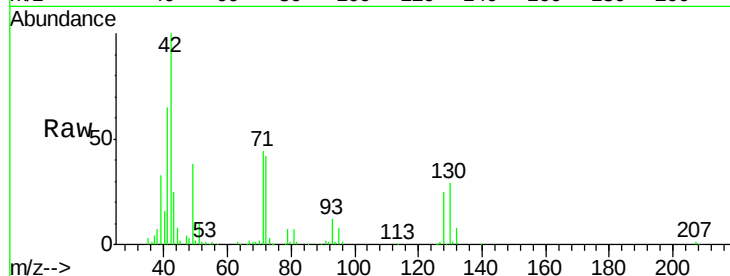




#29  
Tetrahydrofuran  
Concen: 137.321 ug/l  
RT: 7.53 min Scan# 923  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

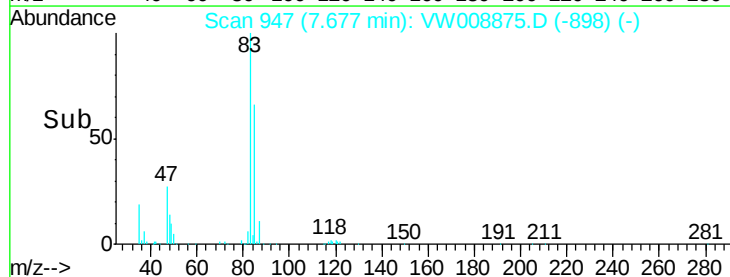
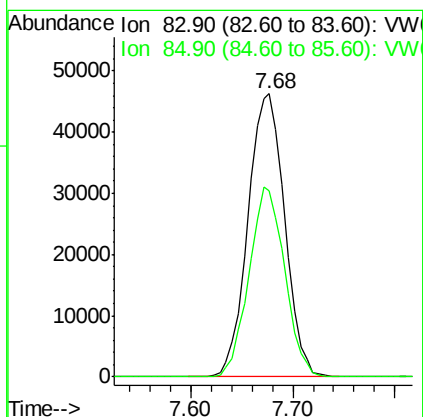
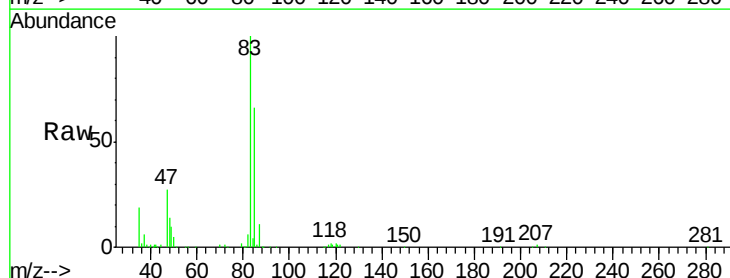
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBS02

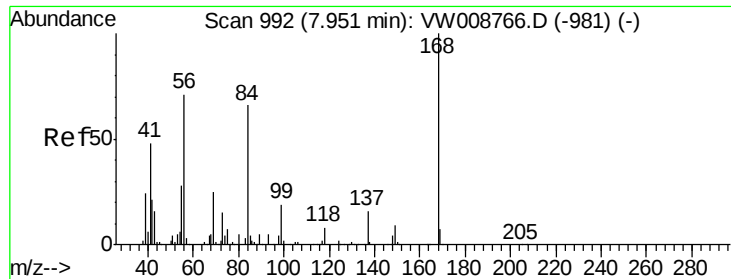
Tot Ion: 42 Resp: 64888  
Ion Ratio Lower Upper  
42 100  
72 41.2 32.7 49.1  
71 42.7 31.3 46.9



#30  
Chloroform  
Concen: 26.466 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion: 83 Resp: 115704  
Ion Ratio Lower Upper  
83 100  
85 65.8 52.6 79.0

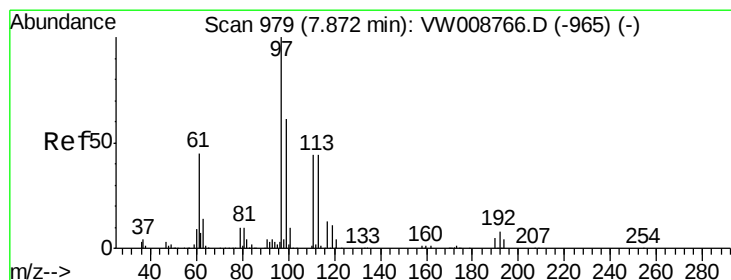
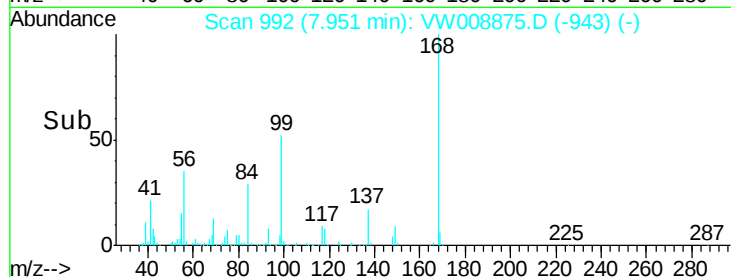
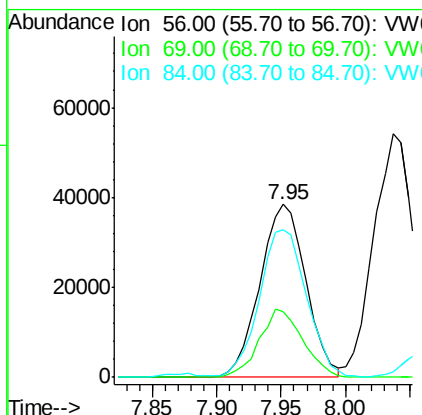
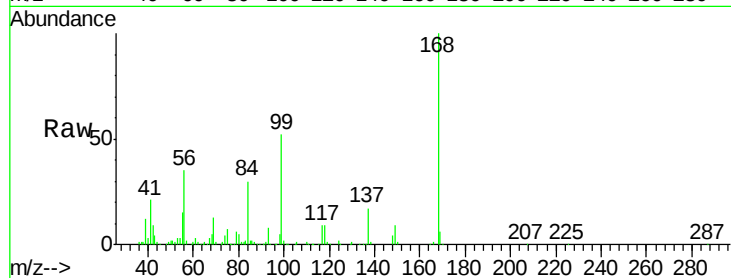




#31  
Cyclohexane  
Concen: 22.091 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

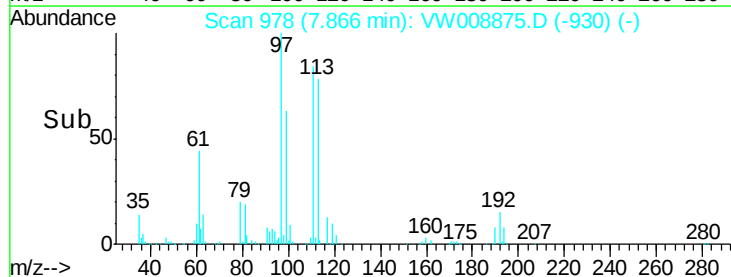
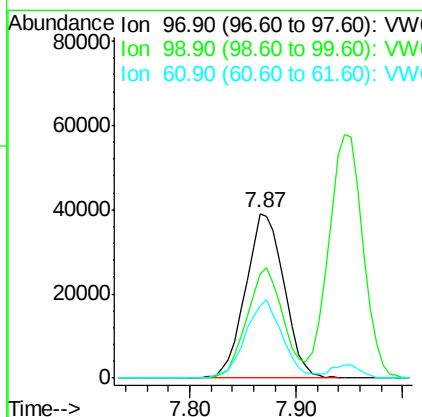
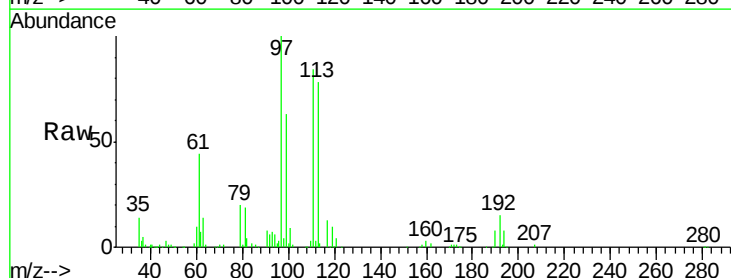
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

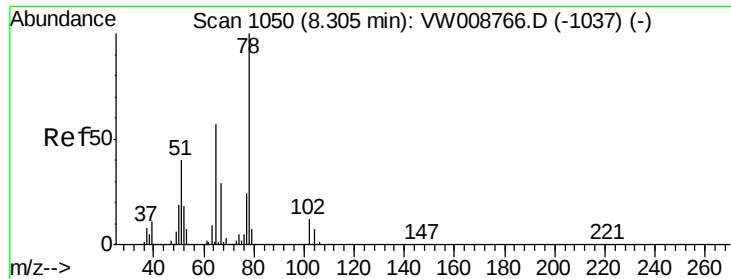
Tot Ion: 56 Resp: 95294  
Ion Ratio Lower Upper  
56 100  
69 37.7 28.2 42.4  
84 82.7 74.1 111.1



#32  
1,1,1-Trichloroethane  
Concen: 24.871 ug/l  
RT: 7.87 min Scan# 978  
Delta R.T. -0.01 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion: 97 Resp: 98880  
Ion Ratio Lower Upper  
97 100  
99 63.8 50.8 76.2  
61 45.9 36.0 54.0





#33

1,2-Dichloroethane-d4

Concen: 67.005 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

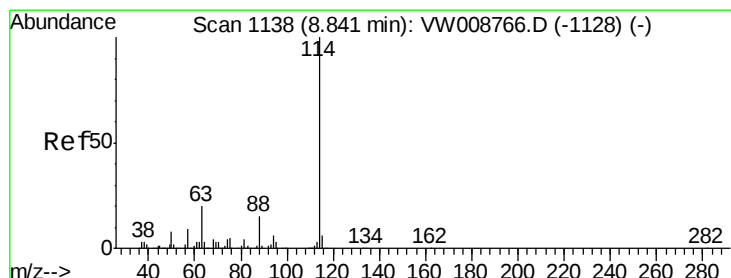
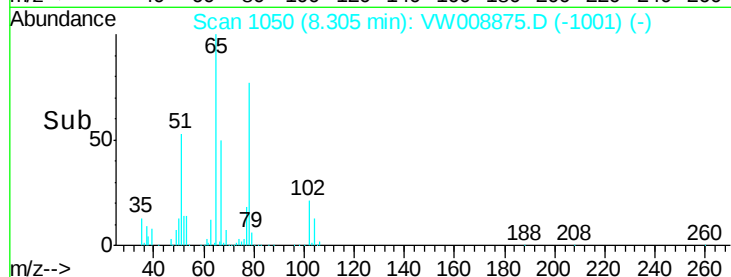
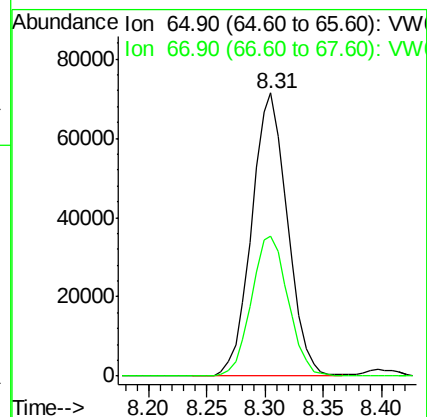
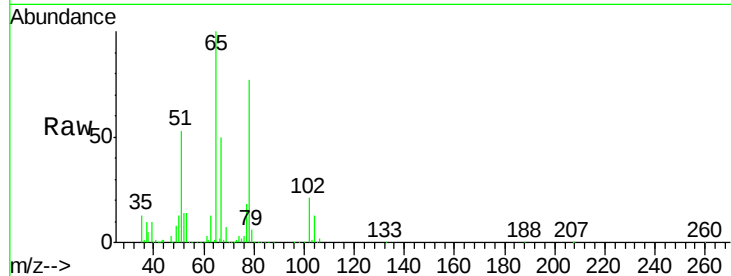
VW0227SBSD02

Tot Ion: 65 Resp: 153316

Ion Ratio Lower Upper

65 100

67 50.7 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

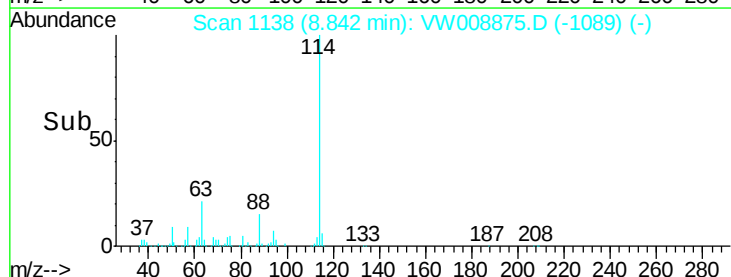
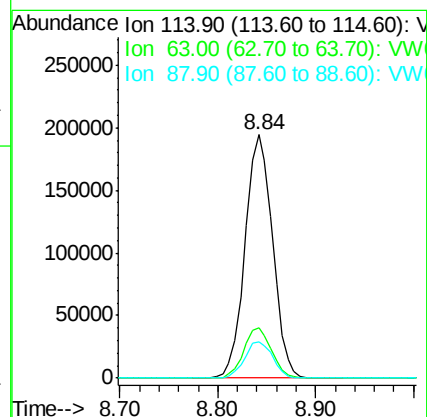
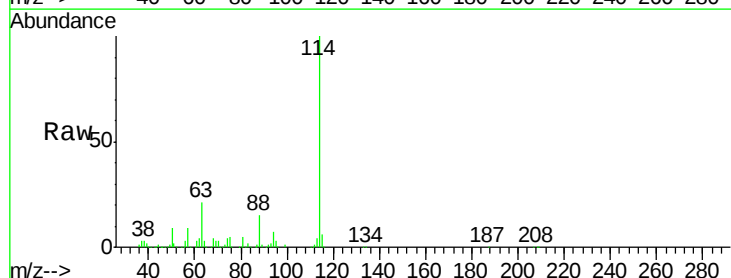
Tgt Ion: 114 Resp: 379969

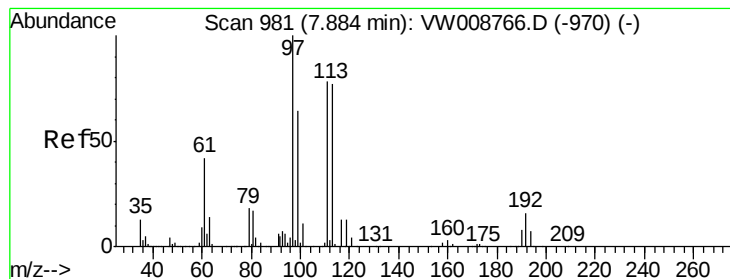
Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

88 14.9 0.0 30.4





#35

Dibromofluoromethane

Concen: 59.246 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

VW0227SBSD02

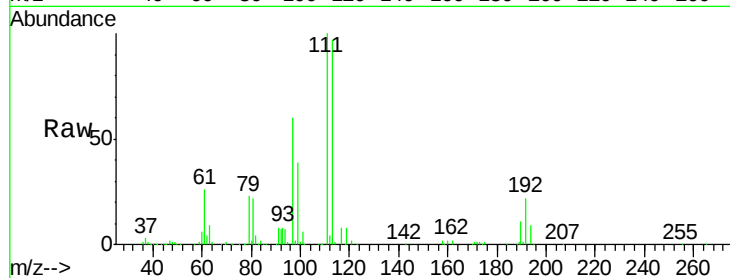
Tot Ion:113 Resp: 135163

Ion Ratio Lower Upper

113 100

111 104.5 81.9 122.9

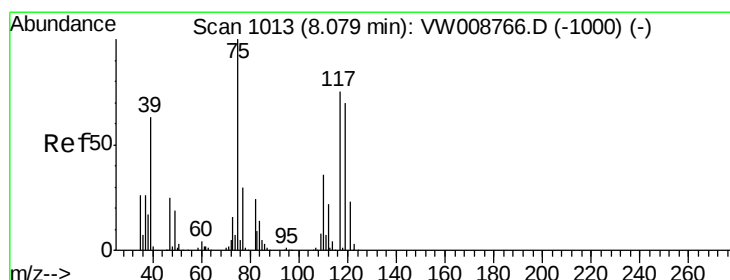
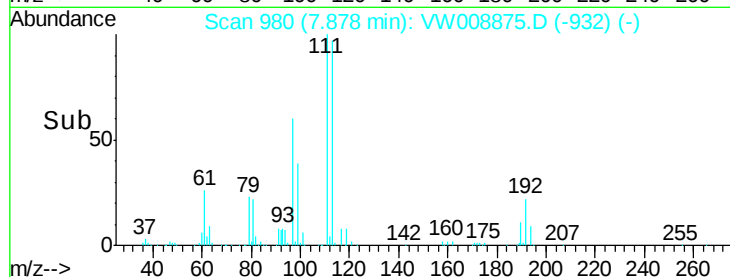
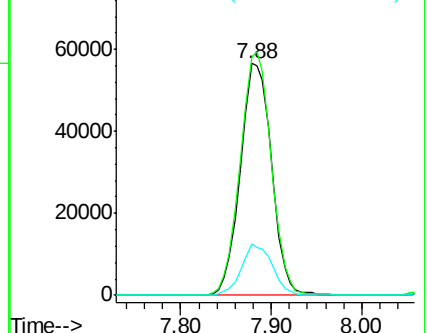
192 21.7 17.1 25.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 23.218 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

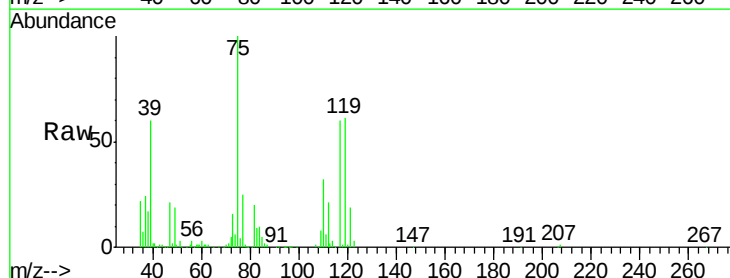
Tgt Ion: 75 Resp: 85877

Ion Ratio Lower Upper

75 100

110 35.2 17.5 52.6

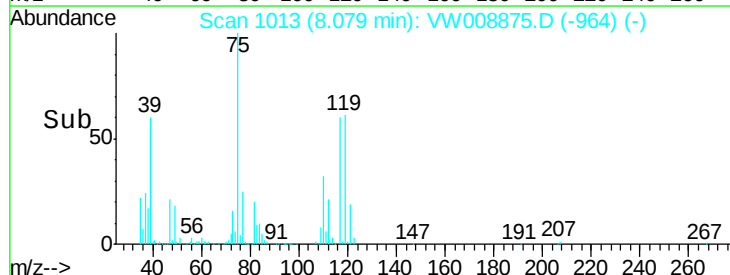
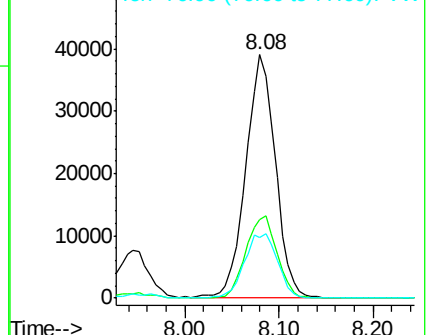
77 29.6 24.5 36.7

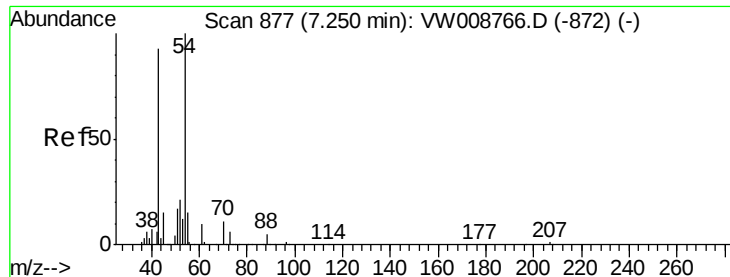


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

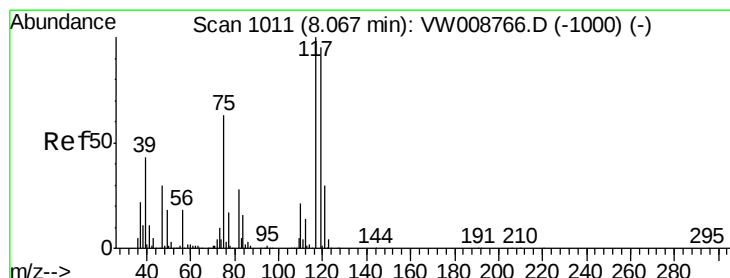
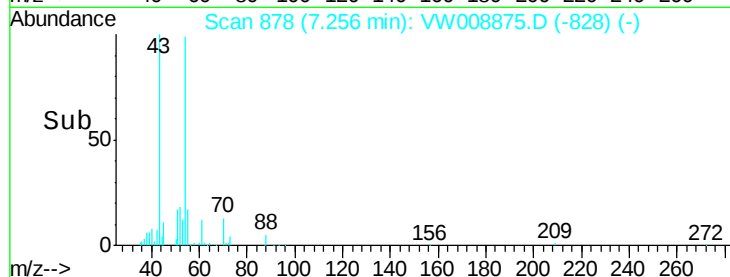
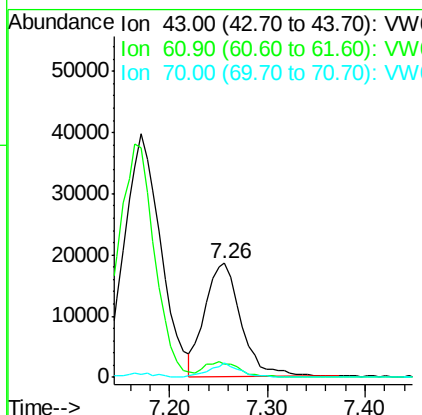
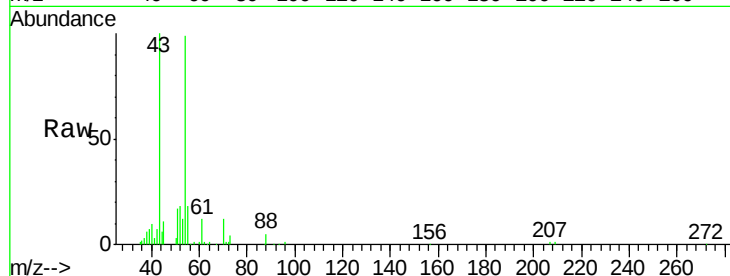




#37  
Ethyl Acetate  
Concen: 27.762 ug/l  
RT: 7.26 min Scan# 878  
Delta R.T. 0.01 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

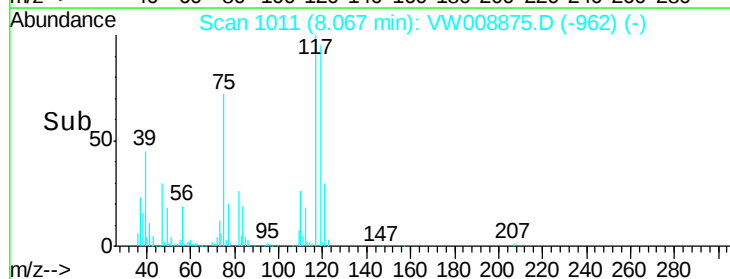
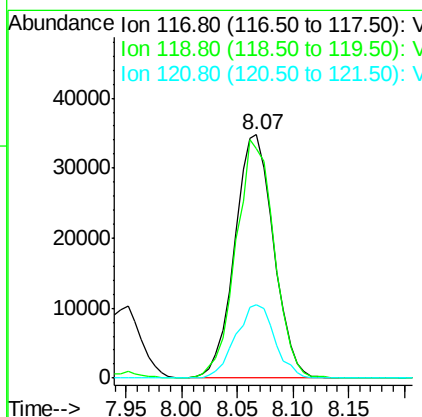
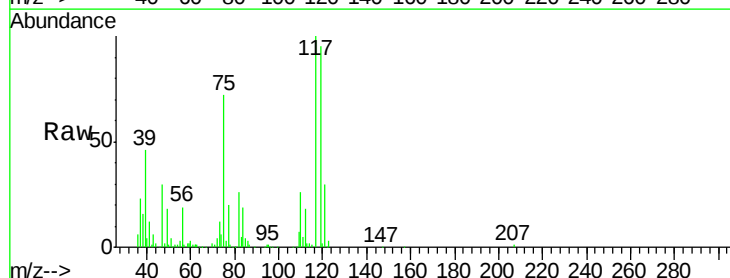
Instrument :  
MSVOA\_W  
ClientSampled :  
VW0227SBS02

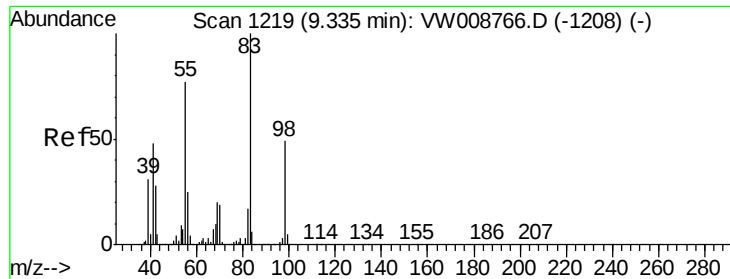
Tot Ion: 43 Resp: 47751  
Ion Ratio Lower Upper  
43 100  
61 13.5 9.8 14.8  
70 10.4 8.4 12.6



#38  
Carbon Tetrachloride  
Concen: 21.650 ug/l  
RT: 8.07 min Scan# 1011  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion: 117 Resp: 84451  
Ion Ratio Lower Upper  
117 100  
119 94.5 76.1 114.1  
121 30.1 24.0 36.0

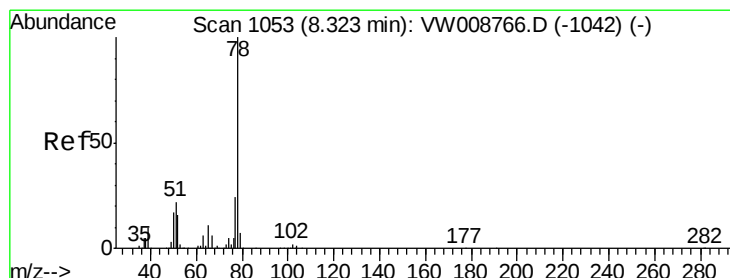
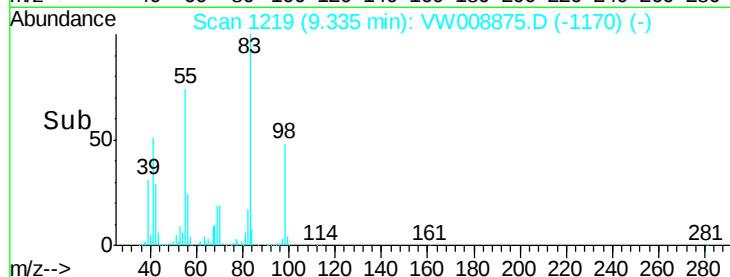
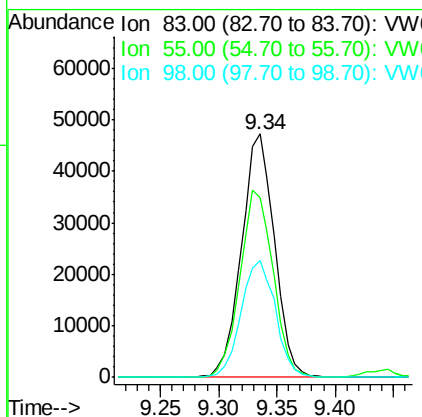
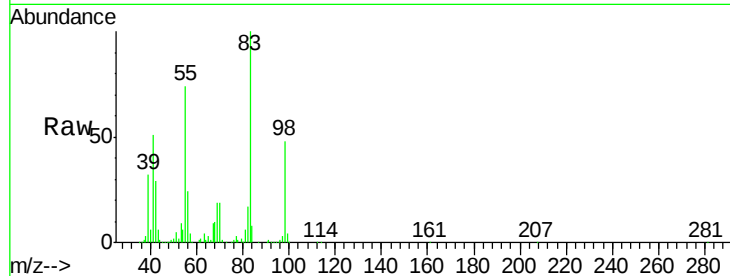




#39  
Methvlcvclohexane  
Concen: 20.246 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

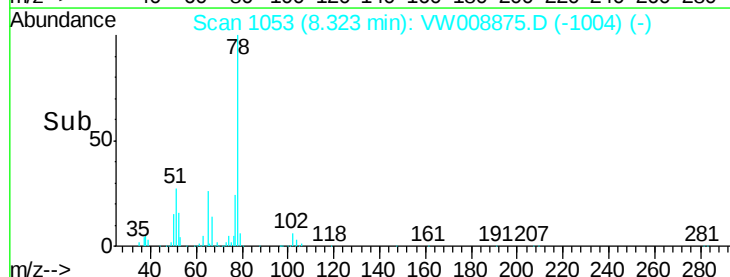
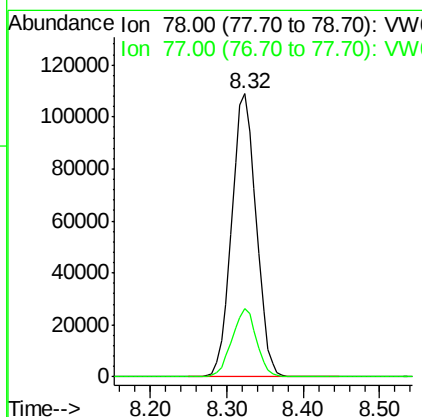
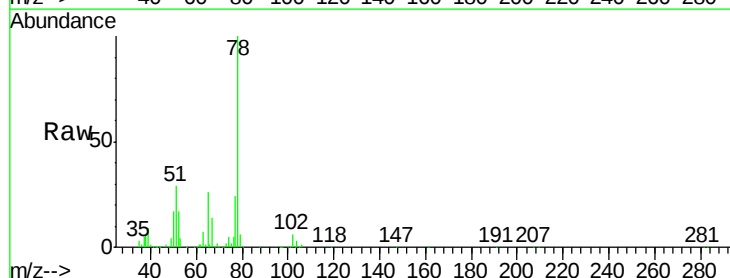
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

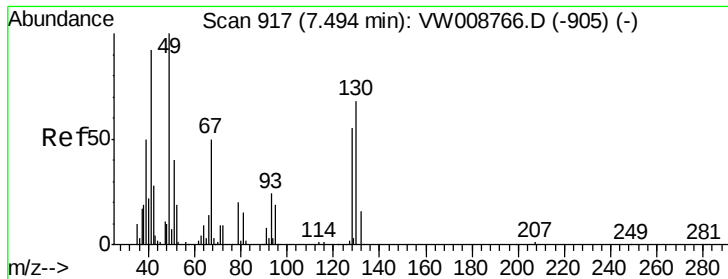
Tot Ion: 83 Resp: 93405  
Ion Ratio Lower Upper  
83 100  
55 73.7 61.2 91.8  
98 47.9 39.4 59.2



#40  
Benzene  
Concen: 23.899 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion: 78 Resp: 241355  
Ion Ratio Lower Upper  
78 100  
77 24.0 19.3 28.9

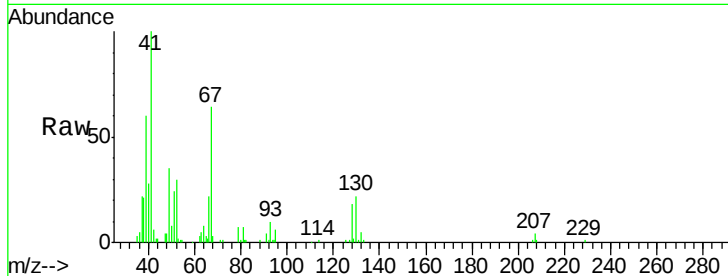




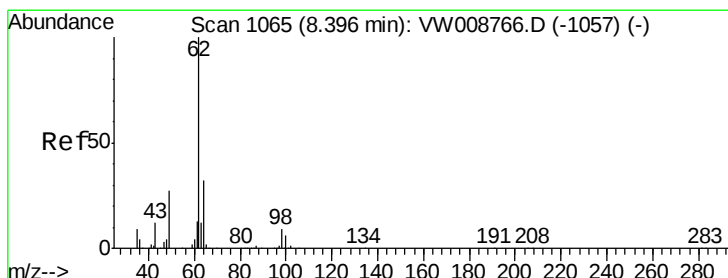
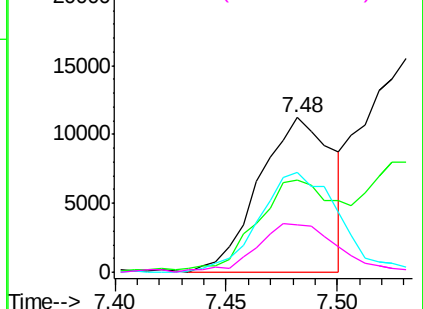
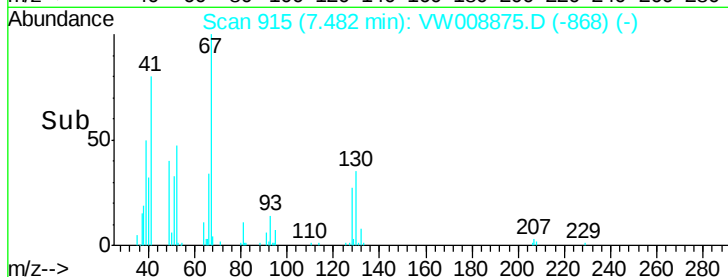
#41  
Methacrylonitrile  
Concen: 25.439 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. -0.01 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 25720 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 67.3  | 52.5  | 78.7  |
| 67       | 70.4  | 55.0  | 82.6  |
| 52       | 34.9  | 26.9  | 40.3  |

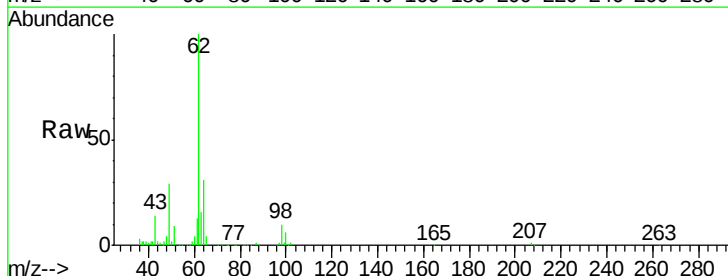


Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW

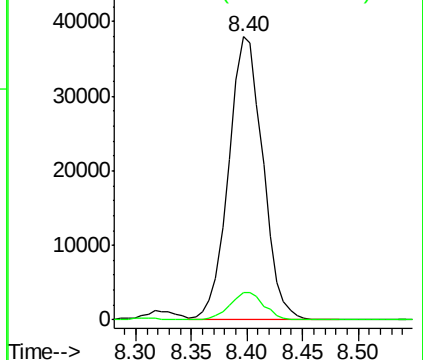
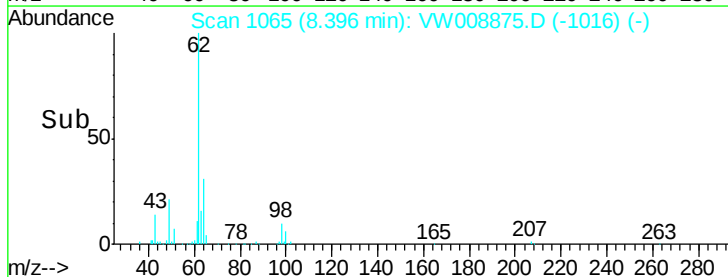


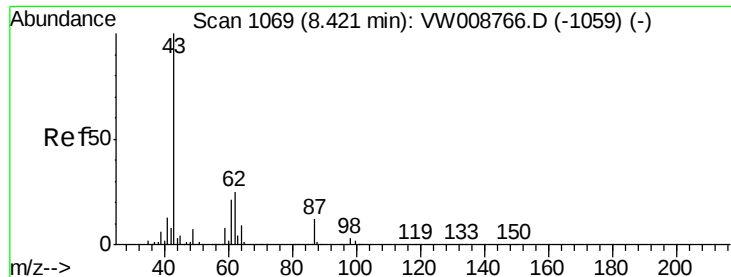
#42  
1,2-Dichloroethane  
Concen: 25.311 ug/l  
RT: 8.40 min Scan# 1065  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 80973 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 9.6   | 0.0   | 18.2  |



Abundance Ion 61.90 (61.60 to 62.60): VW  
Ion 97.90 (97.60 to 98.60): VW



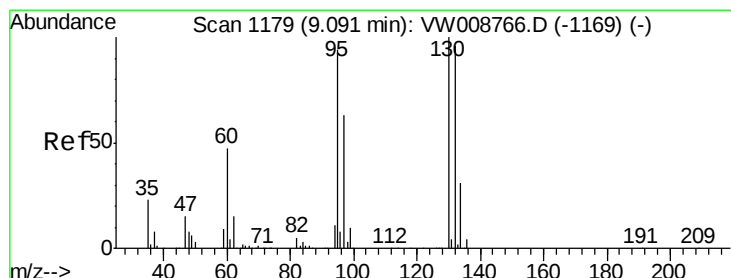
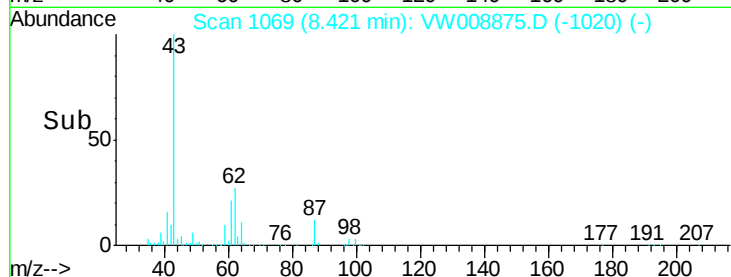
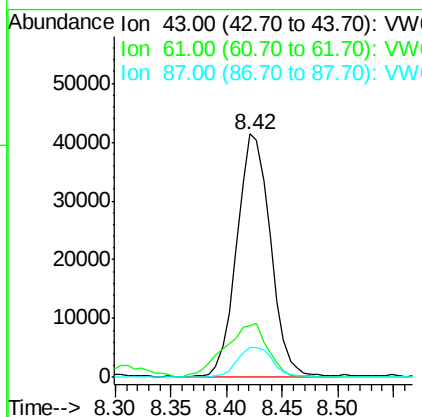
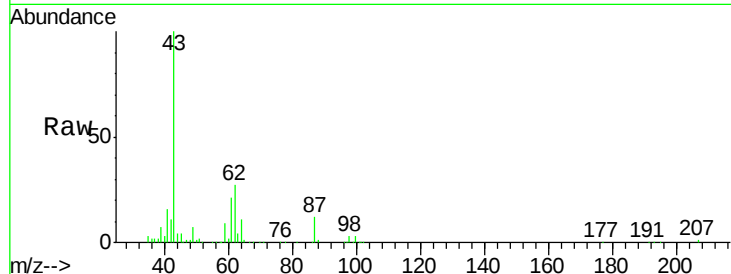


#43

Isopropyl Acetate  
 Concen: 25.187 ug/l  
 RT: 8.42 min Scan# 1069  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0227SBSD02

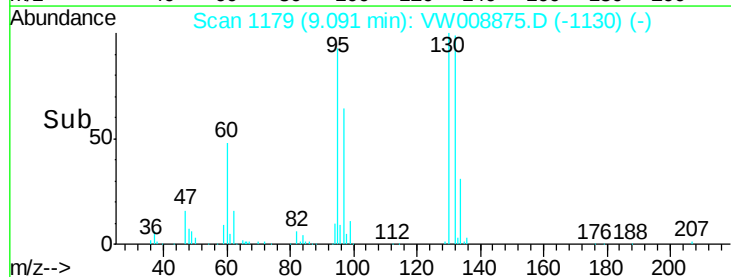
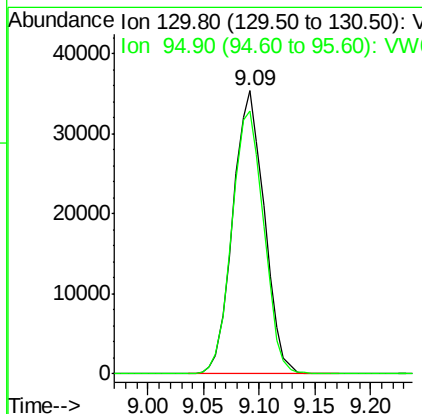
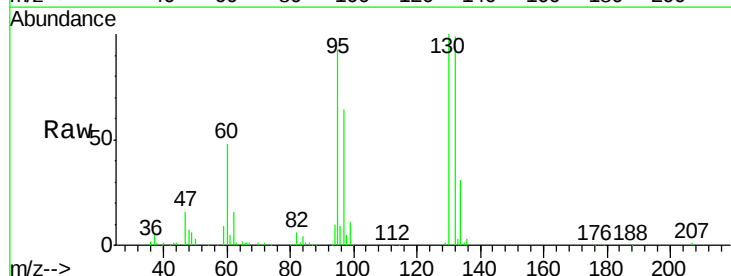
| Tot Ion   | 43    | Resp  | 86463 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 28.6  | 23.2  | 34.8  |
| 87        | 13.1  | 9.9   | 14.9  |

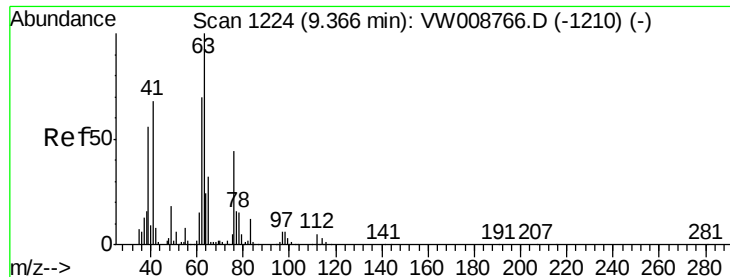


#44

Trichloroethene  
 Concen: 24.346 ug/l  
 RT: 9.09 min Scan# 1179  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

| Tgt Ion   | 130   | Resp  | 69263 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 130       | 100   |       |       |
| 95        | 92.9  | 0.0   | 188.6 |





#45

1,2-Dichloropropane

Concen: 25.116 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

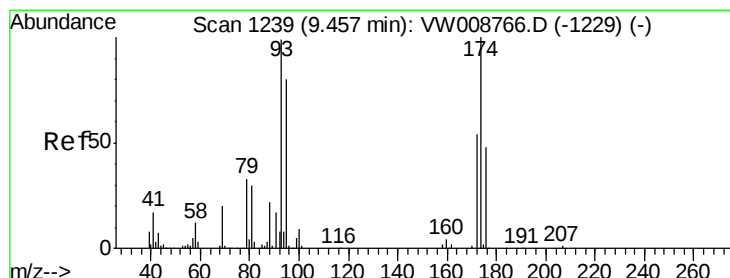
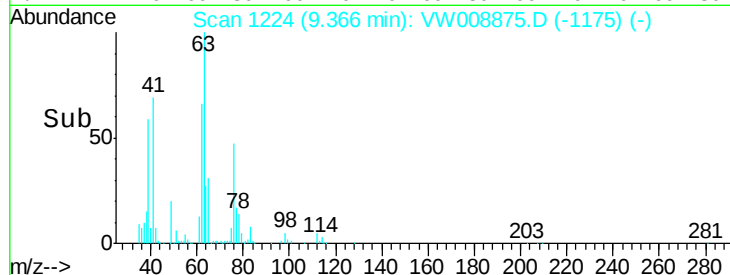
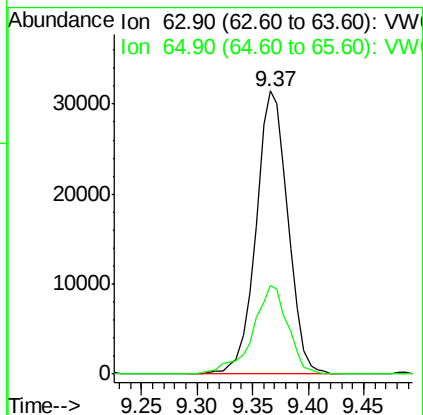
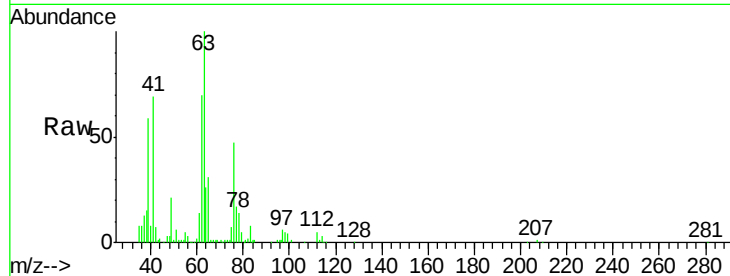
VW0227SBSD02

Tot Ion: 63 Resp: 62678

Ion Ratio Lower Upper

63 100

65 31.3 25.5 38.3



#46

Dibromomethane

Concen: 25.775 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

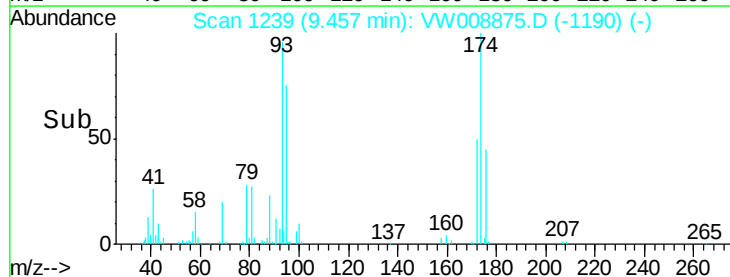
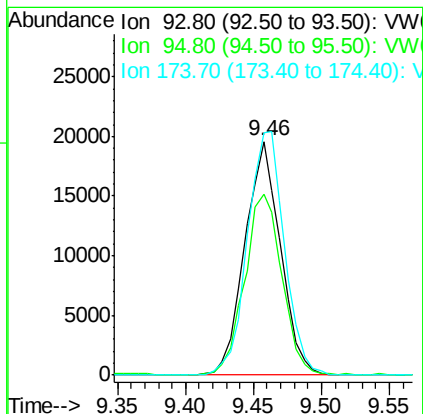
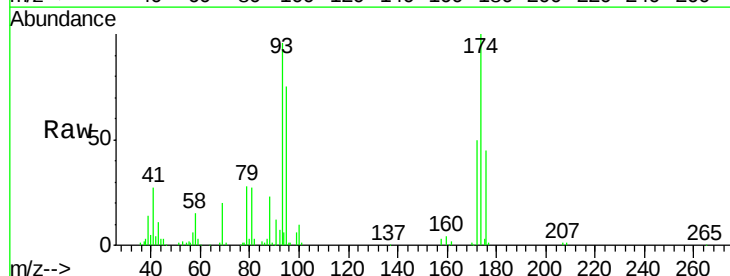
Tgt Ion: 93 Resp: 35779

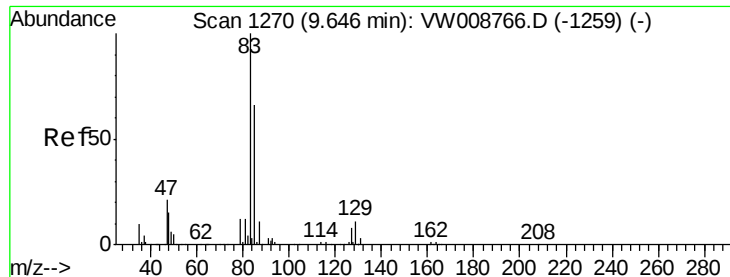
Ion Ratio Lower Upper

93 100

95 81.4 67.7 101.5

174 108.7 86.7 130.1





#47

Bromodichloromethane

Concen: 24.915 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

VW0227SBSD02

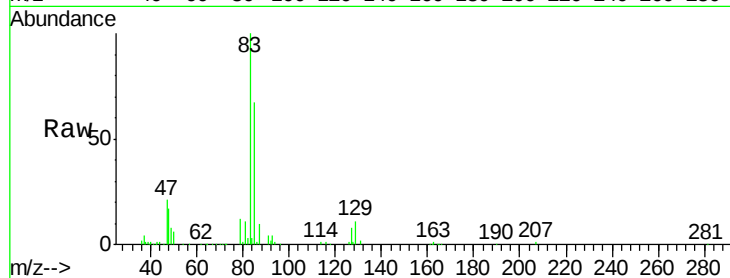
Tot Ion: 83 Resp: 84146

Ion Ratio Lower Upper

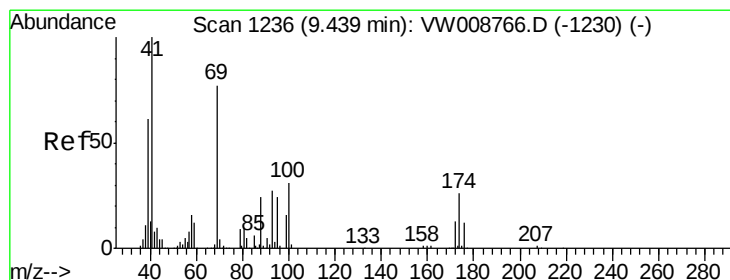
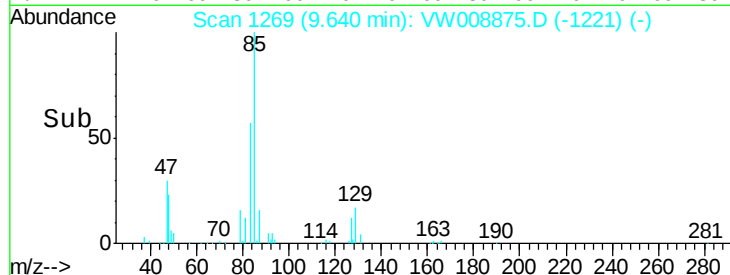
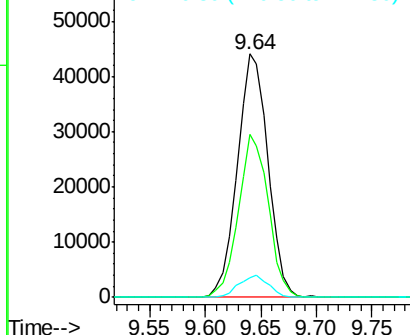
83 100

85 67.1 52.5 78.7

127 8.0 6.7 10.1



Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 84.90 (84.60 to 85.60): VW  
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 23.373 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

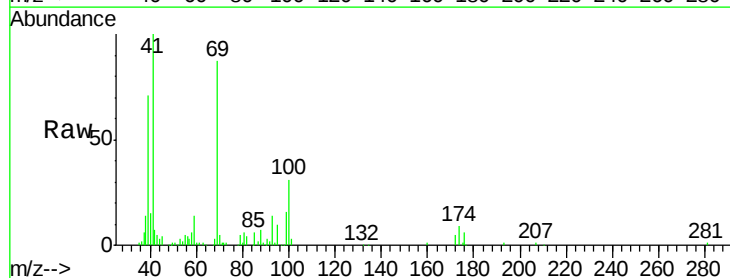
Tgt Ion: 41 Resp: 38427

Ion Ratio Lower Upper

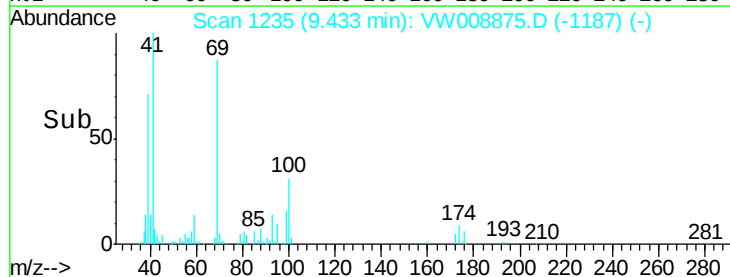
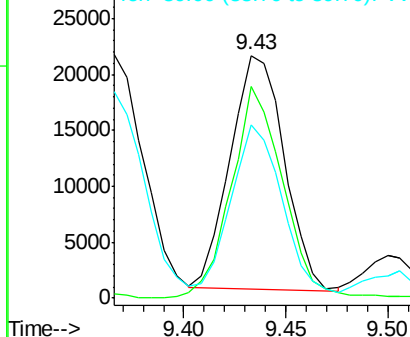
41 100

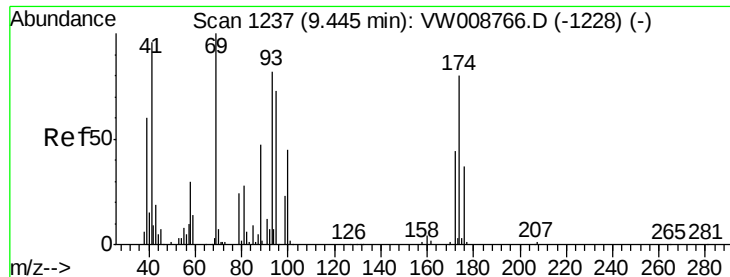
69 87.3 63.6 95.4

39 70.7 52.1 78.1



Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 69.00 (68.70 to 69.70): VW  
Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 478.195 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

VW0227SBSD02

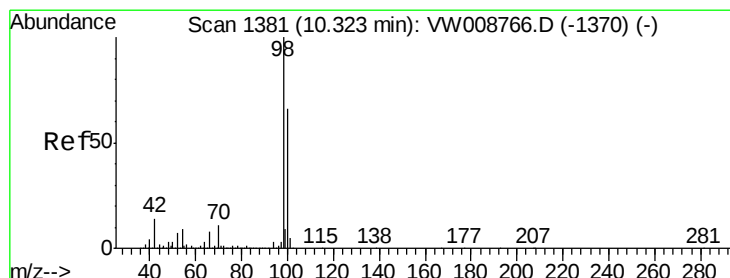
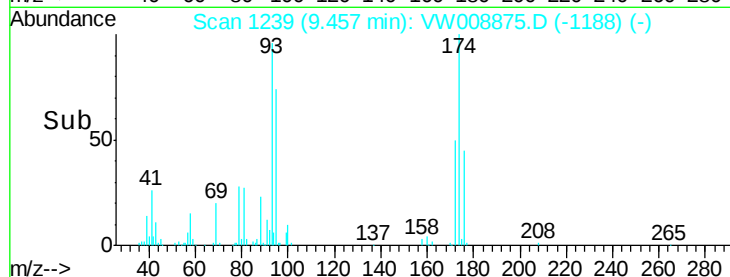
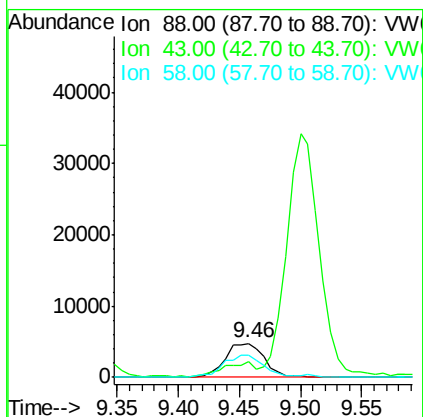
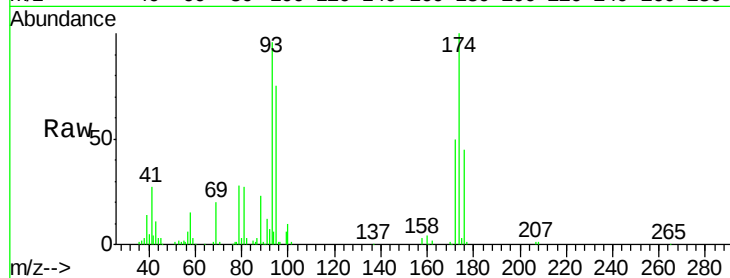
Tot Ion: 88 Resp: 10630

Ion Ratio Lower Upper

88 100

43 35.4 29.0 43.4

58 68.5 52.0 78.0



#50

Toluene-d8

Concen: 56.232 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008875.D

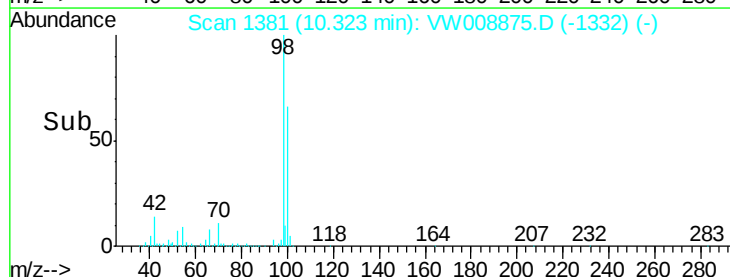
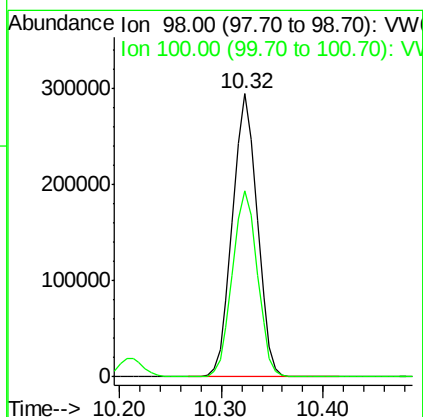
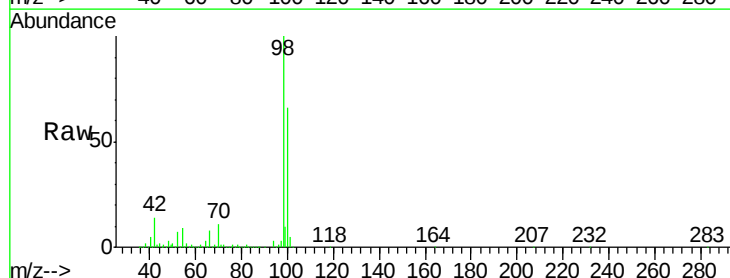
Acq: 28 Feb 2019 02:08

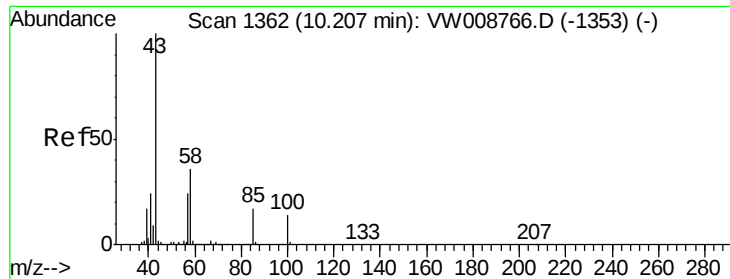
Tgt Ion: 98 Resp: 495227

Ion Ratio Lower Upper

98 100

100 66.2 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 126.393 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

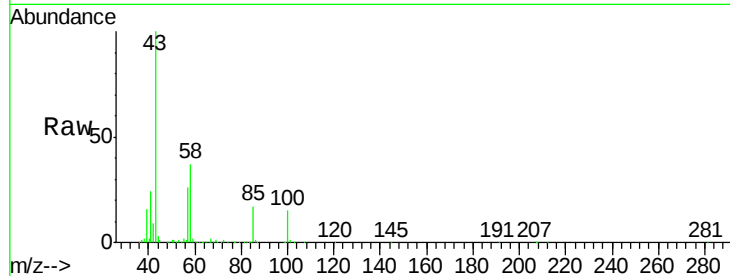
VW0227SBS02

Tot Ion: 43 Resp: 220282

Ion Ratio Lower Upper

43 100

58 37.2 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

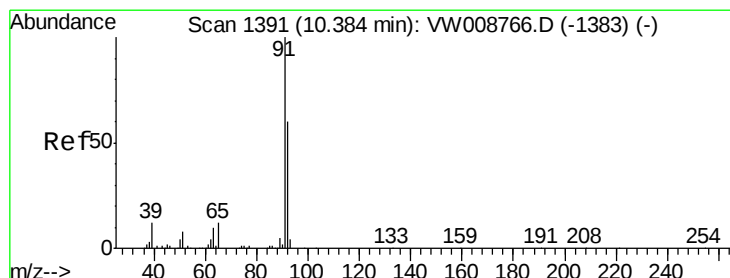
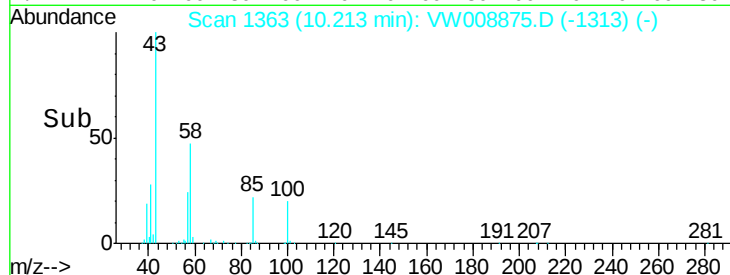
10.21

100000

50000

0

Time-->



#52

Toluene

Concen: 22.980 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW008875.D

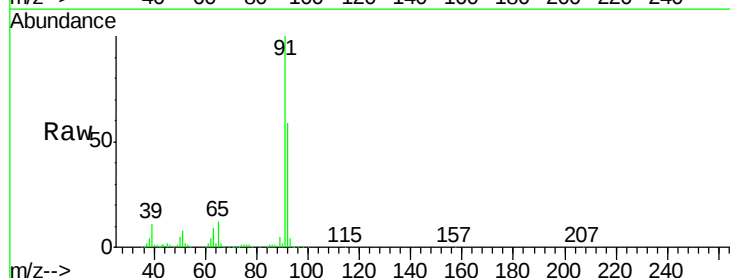
Acq: 28 Feb 2019 02:08

Tgt Ion: 92 Resp: 157497

Ion Ratio Lower Upper

92 100

91 168.3 136.9 205.3



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

10.39

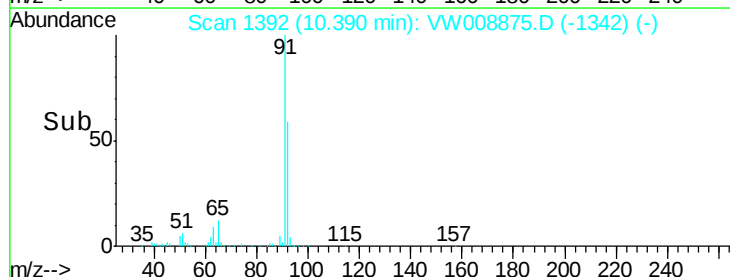
150000

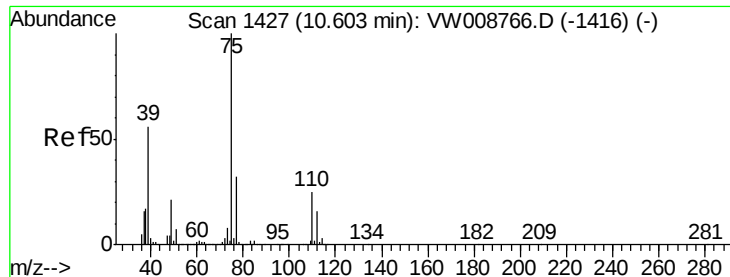
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 24.040 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

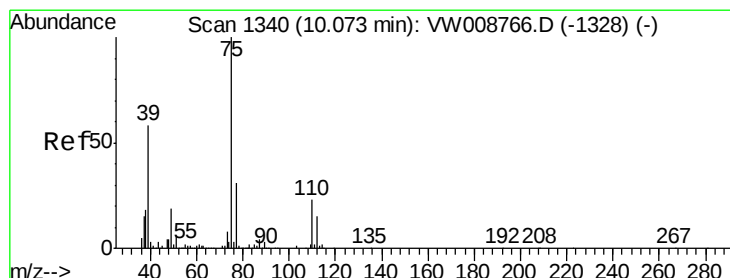
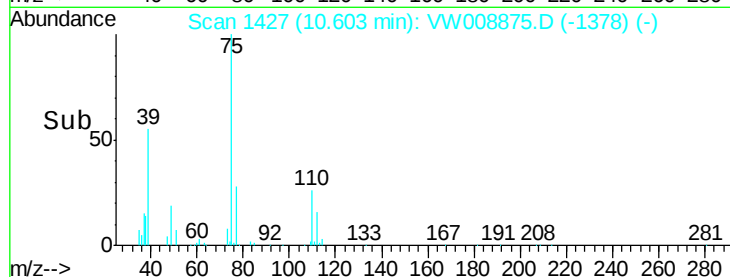
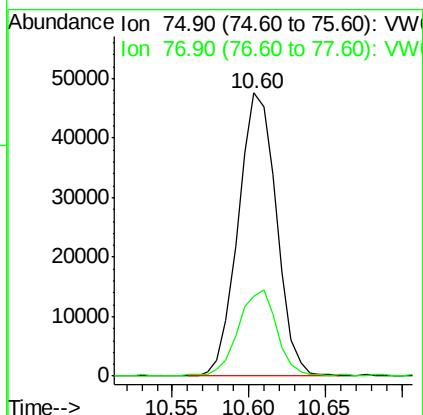
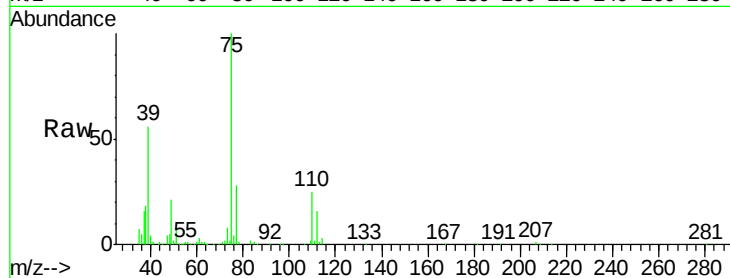
VW0227SBSD02

Tot Ion: 75 Resp: 82756

Ion Ratio Lower Upper

75 100

77 27.9 26.1 39.1



#54

cis-1,3-Dichloropropene

Concen: 24.469 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

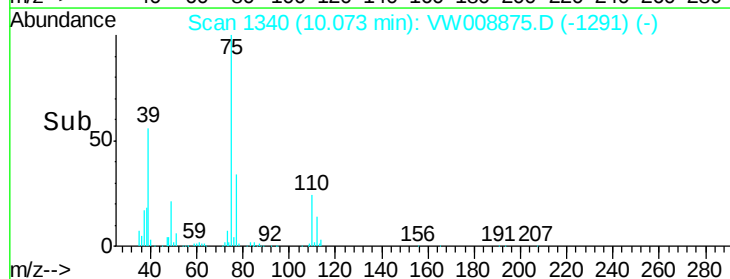
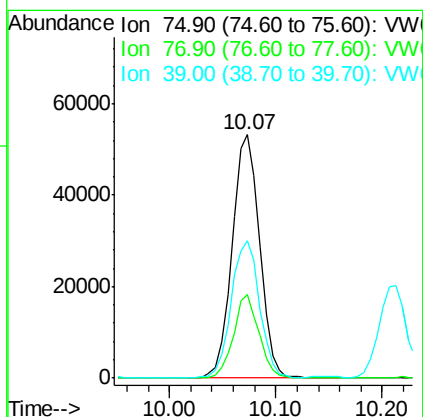
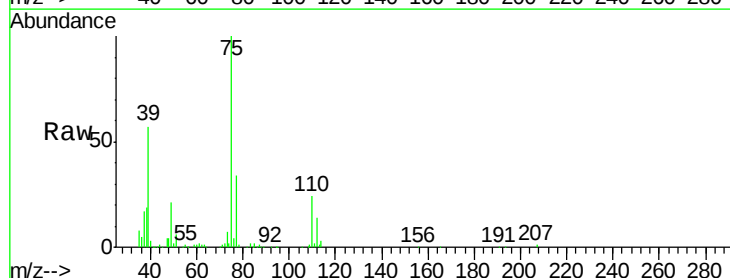
Tgt Ion: 75 Resp: 96066

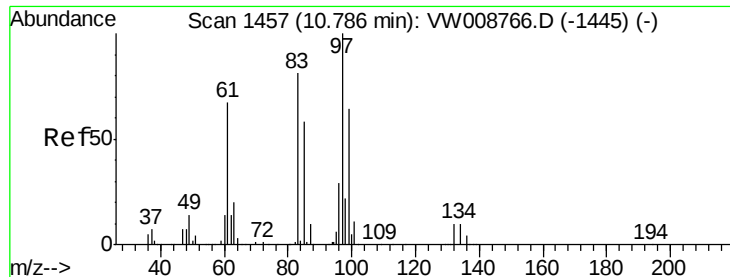
Ion Ratio Lower Upper

75 100

77 34.1 25.0 37.4

39 56.1 46.6 70.0

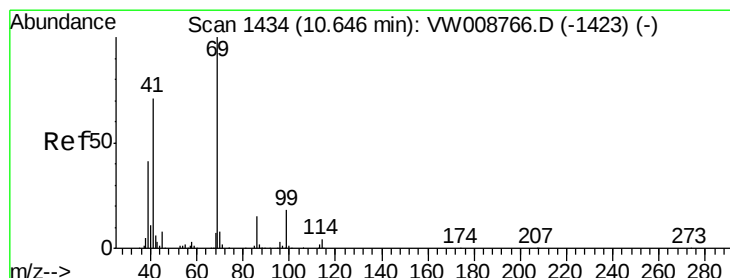
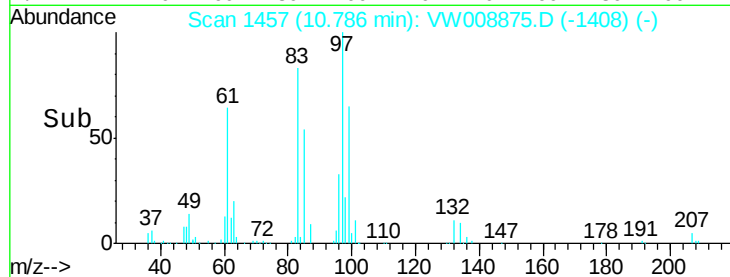
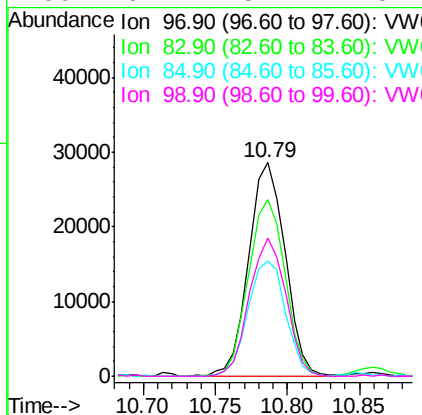
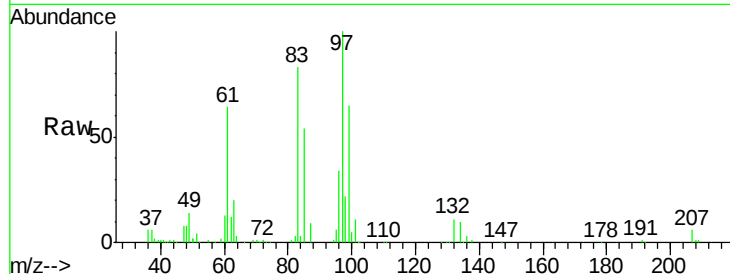




#55  
 1,1,2-Trichloroethane  
 Concen: 26.662 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

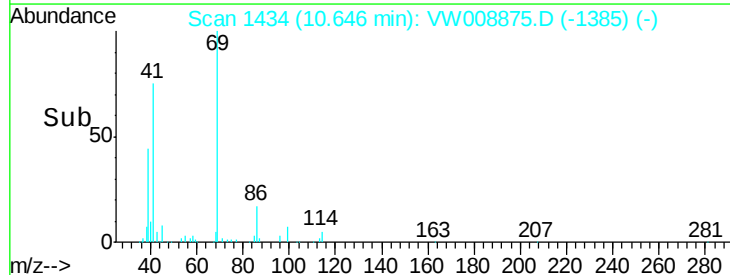
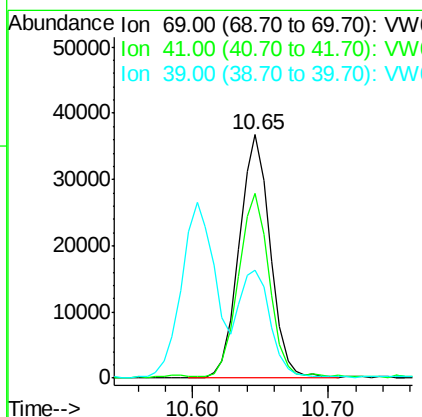
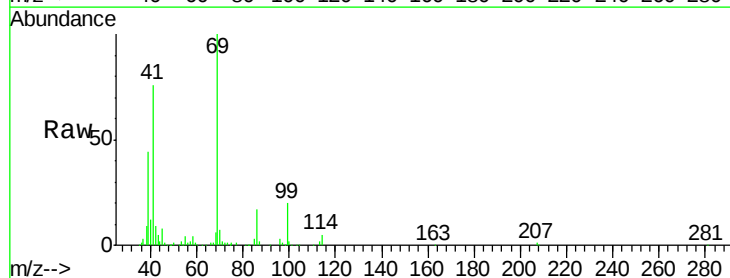
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0227SBSD02

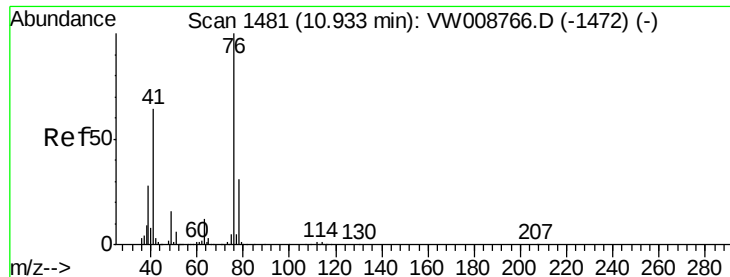
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 50192 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 82.7  | 65.0  | 97.6  |
| 85       | 54.0  | 46.0  | 69.0  |
| 99       | 64.7  | 51.1  | 76.7  |



#56  
 Ethyl methacrylate  
 Concen: 23.963 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 58609 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 76.0  | 57.4  | 86.0  |
| 39       | 44.0  | 34.8  | 52.2  |





#57

1,3-Dichloropropane

Concen: 26.566 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

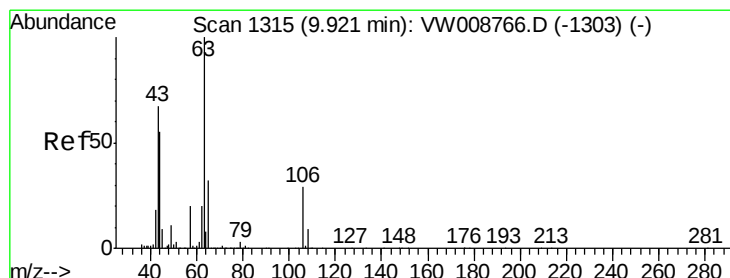
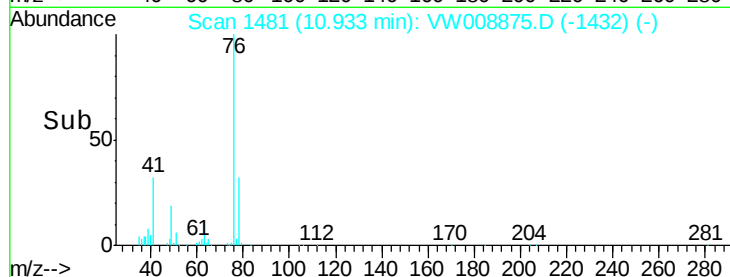
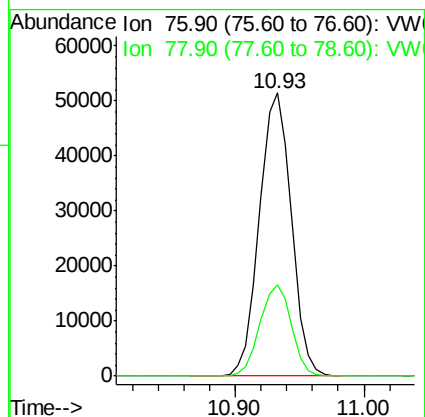
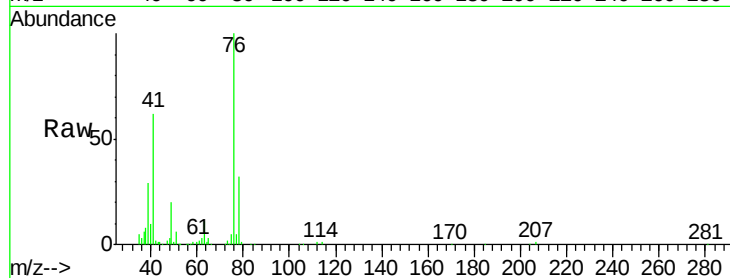
VW0227SBSD02

Tot Ion: 76 Resp: 88299

Ion Ratio Lower Upper

76 100

78 32.0 25.8 38.8



#58

2-Chloroethyl Vinyl ether

Concen: 127.496 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VW008875.D

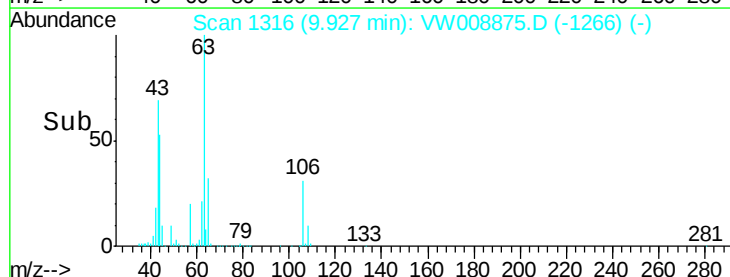
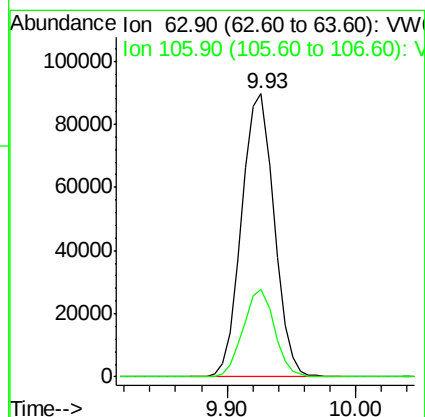
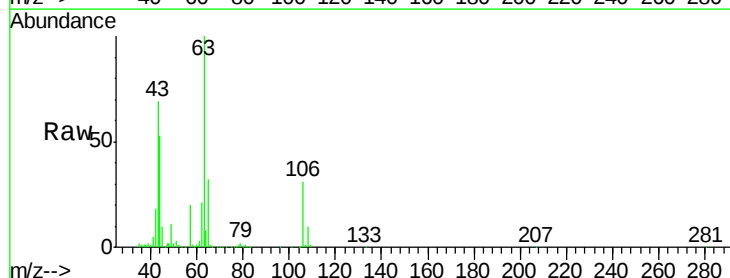
Acq: 28 Feb 2019 02:08

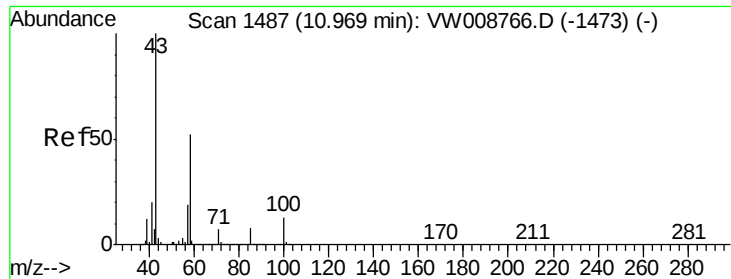
Tgt Ion: 63 Resp: 156832

Ion Ratio Lower Upper

63 100

106 29.8 24.0 36.0





#59

2-Hexanone

Concen: 119.948 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

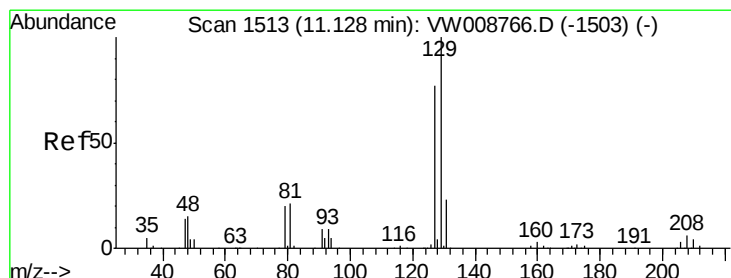
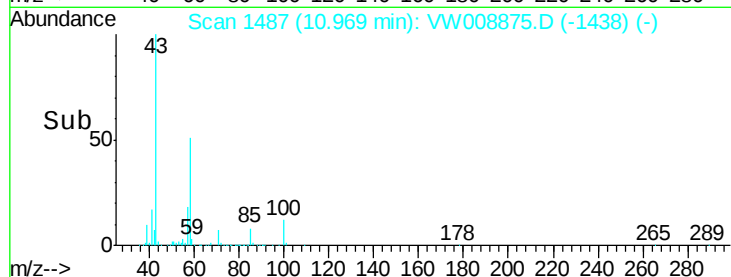
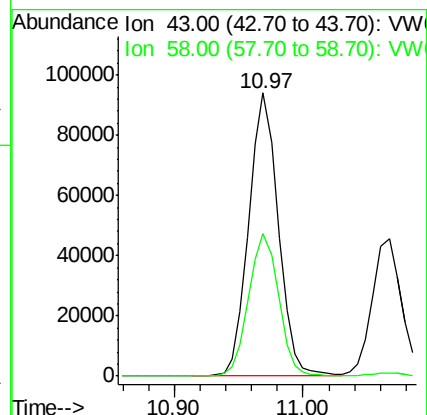
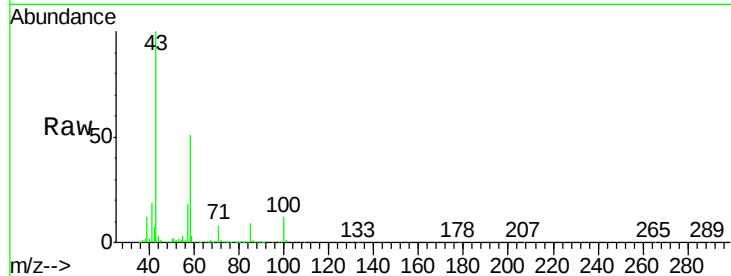
VW0227SBSD02

Tot Ion: 43 Resp: 148810

Ion Ratio Lower Upper

43 100

58 51.3 25.3 75.8



#60

Dibromochloromethane

Concen: 25.784 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW008875.D

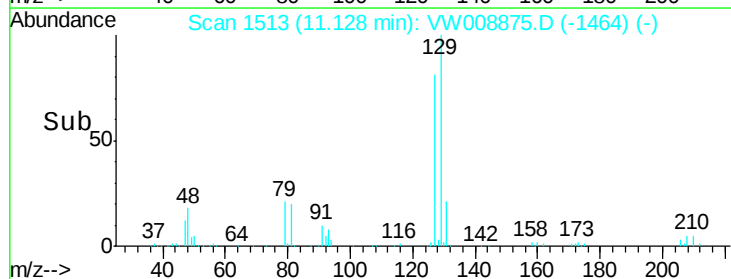
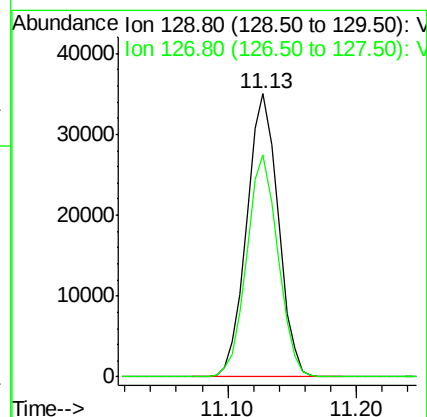
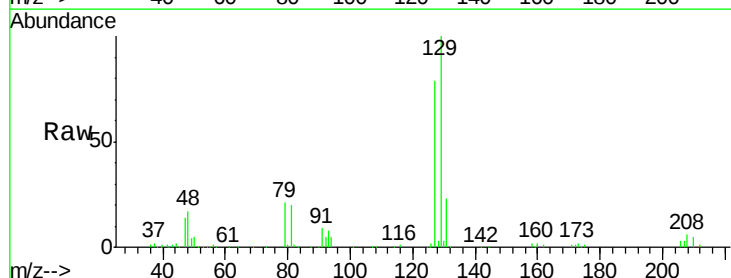
Acq: 28 Feb 2019 02:08

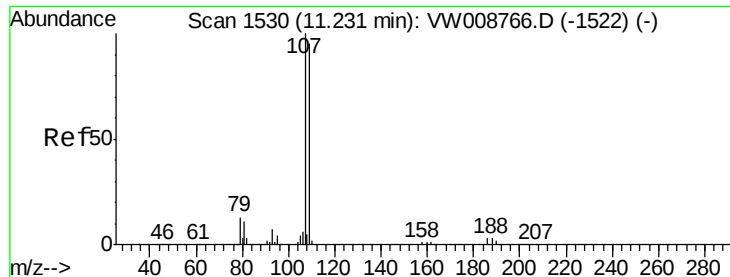
Tgt Ion: 129 Resp: 59203

Ion Ratio Lower Upper

129 100

127 77.6 39.0 116.9

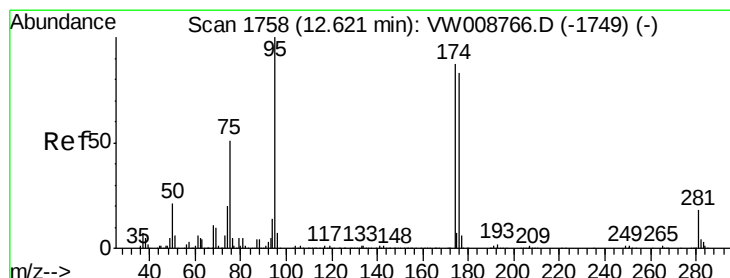
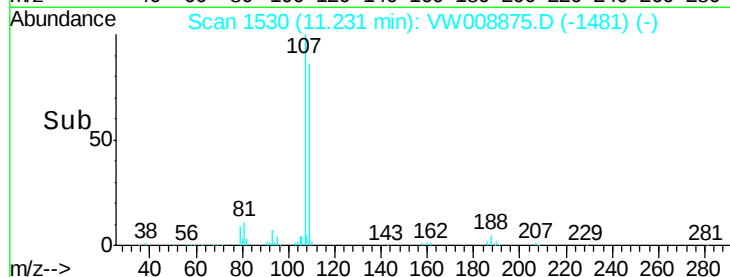
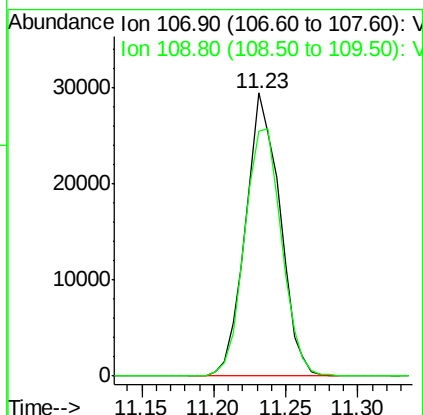
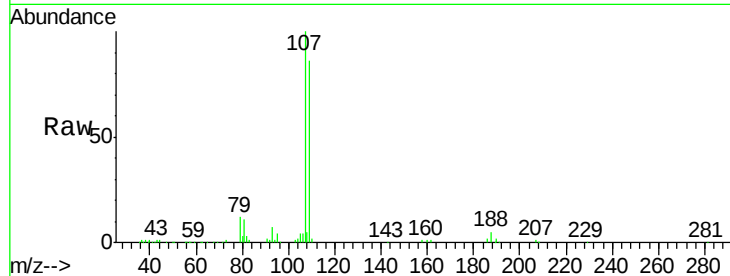




#61  
 1,2-Dibromoethane  
 Concen: 26.034 ug/l  
 RT: 11.23 min Scan# 1530  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

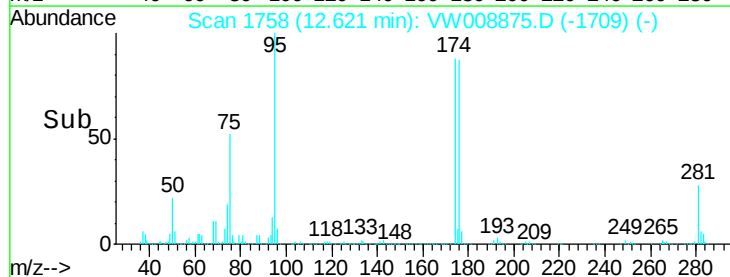
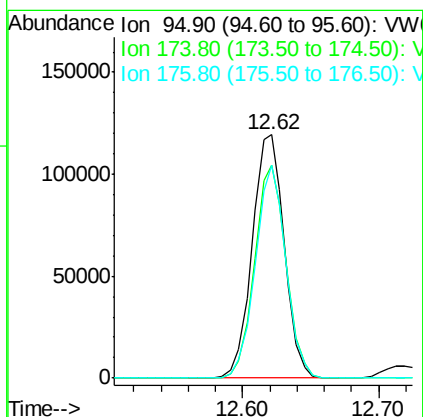
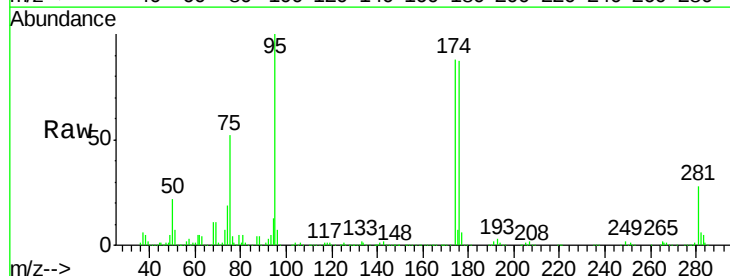
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0227SBSD02

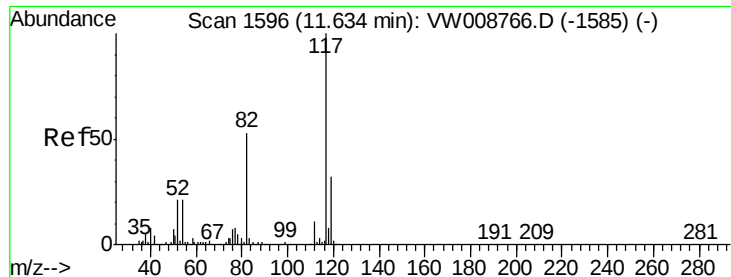
Tot Ion:107 Resp: 48511  
 Ion Ratio Lower Upper  
 107 100  
 109 94.5 75.6 113.4



#62  
 4-Bromofluorobenzene  
 Concen: 57.046 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

Tgt Ion: 95 Resp: 196708  
 Ion Ratio Lower Upper  
 95 100  
 174 85.6 0.0 169.2  
 176 83.3 0.0 163.6

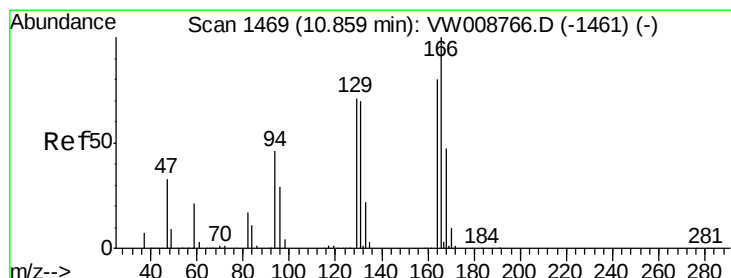
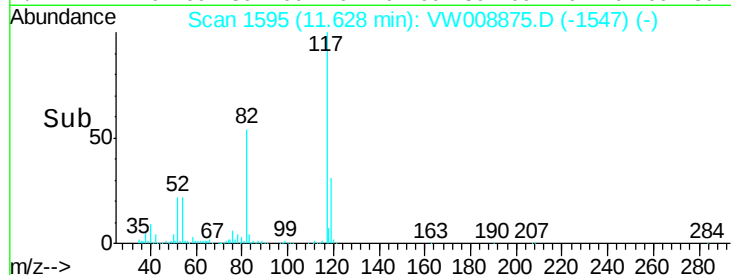
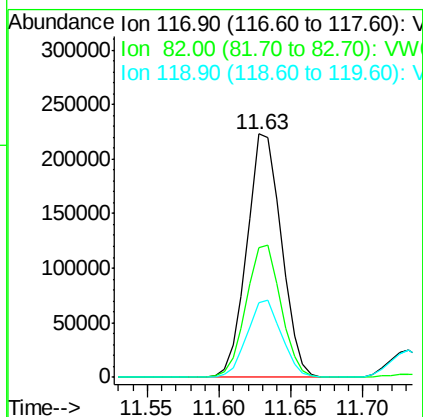
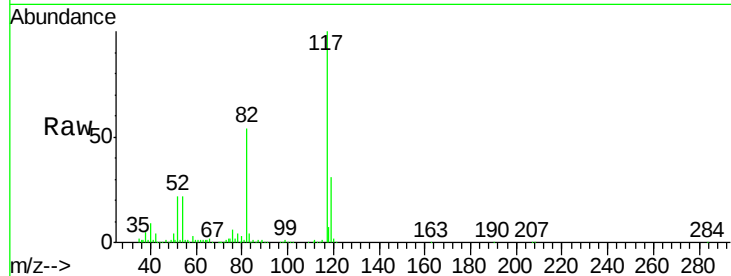




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

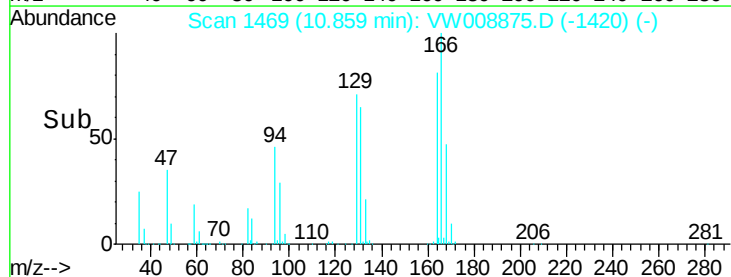
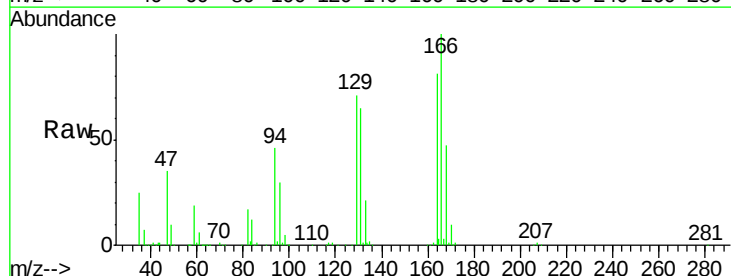
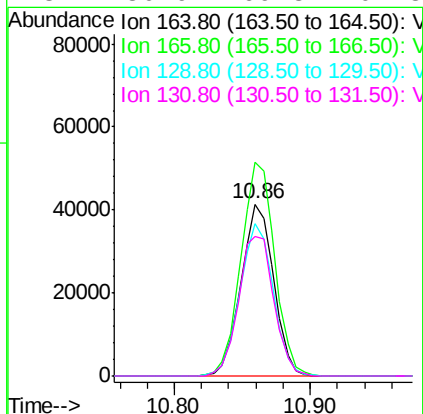
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

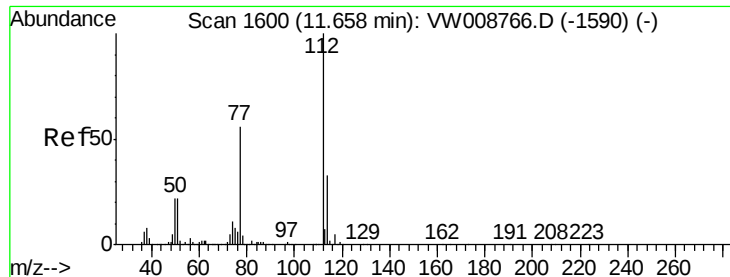
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.5  | 42.2  | 63.4  |
| 119     | 30.8  | 25.9  | 38.9  |



#64  
Tetrachloroethene  
Concen: 26.255 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 124.1 | 99.5  | 149.3 |
| 129     | 88.3  | 71.1  | 106.7 |
| 131     | 80.9  | 69.8  | 104.8 |

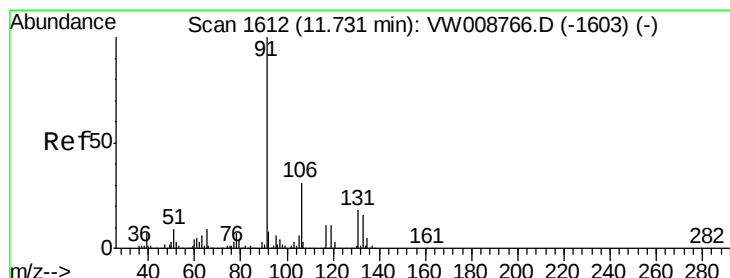
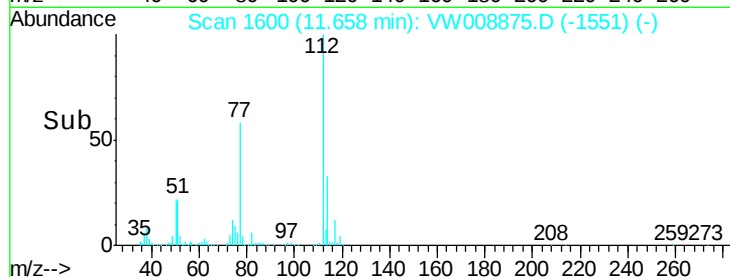
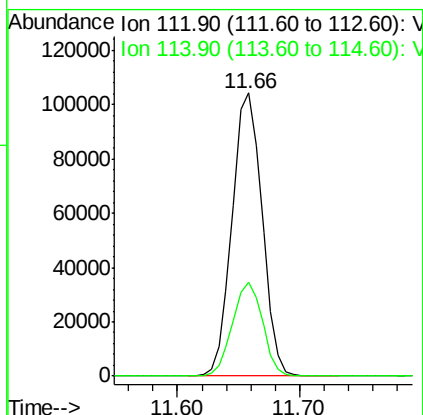
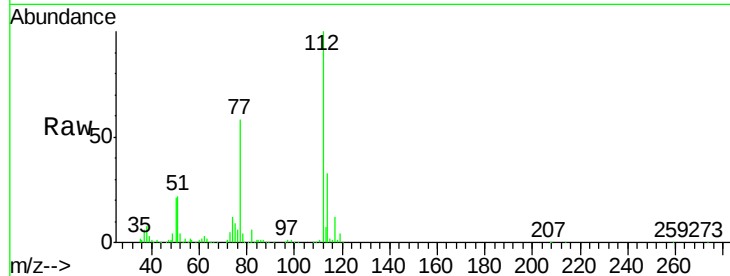




#65  
Chlorobenzene  
Concen: 22.712 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

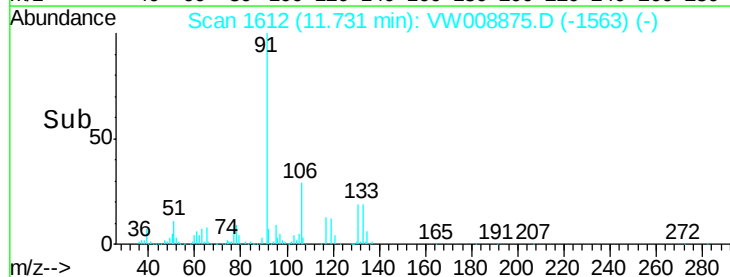
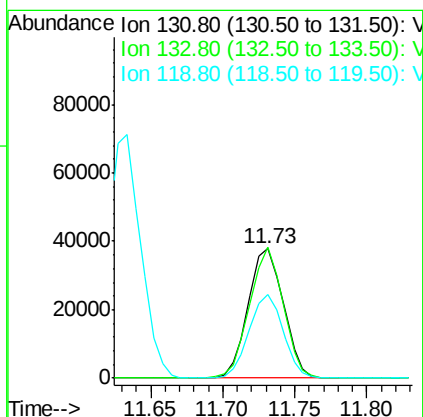
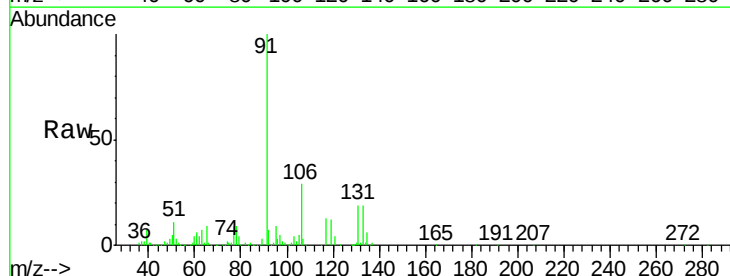
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

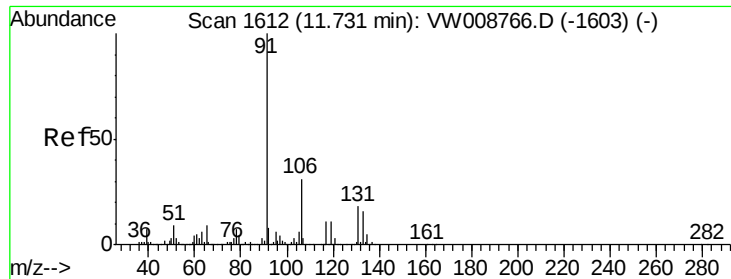
Tot Ion:112 Resp: 176995  
Ion Ratio Lower Upper  
112 100  
114 33.1 26.6 40.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 24.411 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion:131 Resp: 64324  
Ion Ratio Lower Upper  
131 100  
133 96.4 46.7 140.0  
119 62.3 30.8 92.4

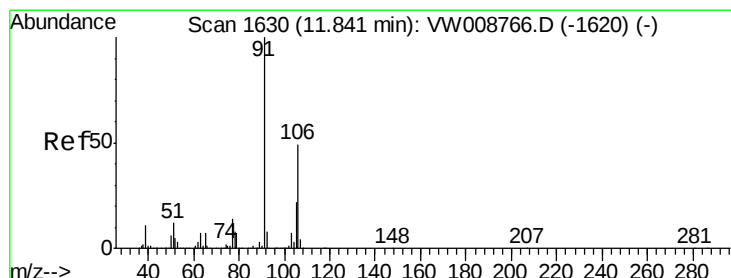
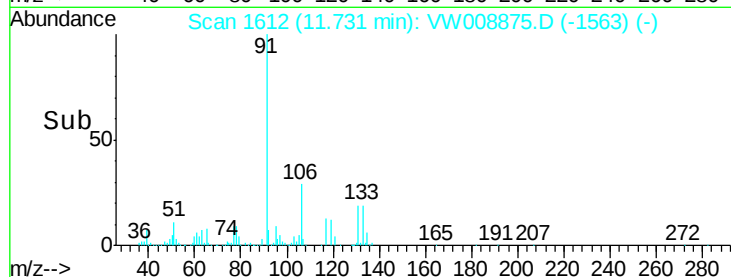
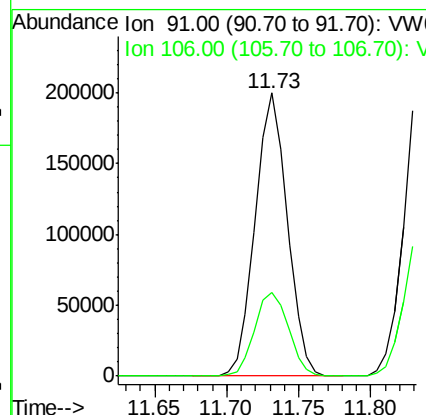
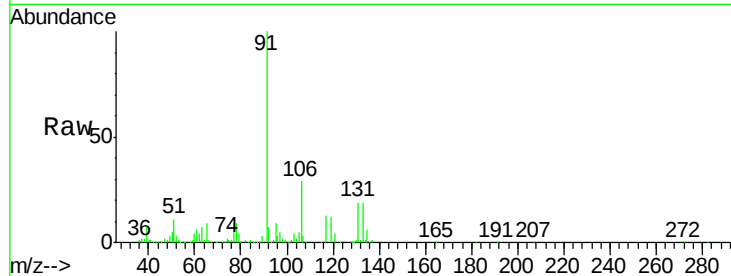




#67  
Ethyl Benzene  
Concen: 22.120 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

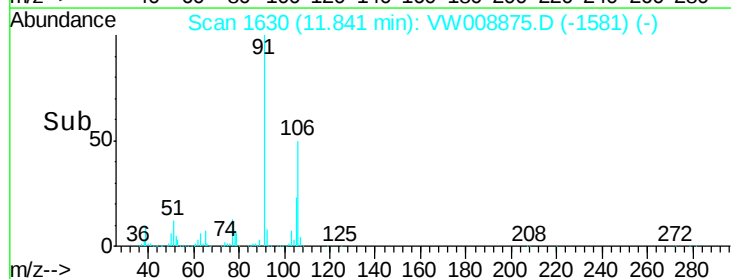
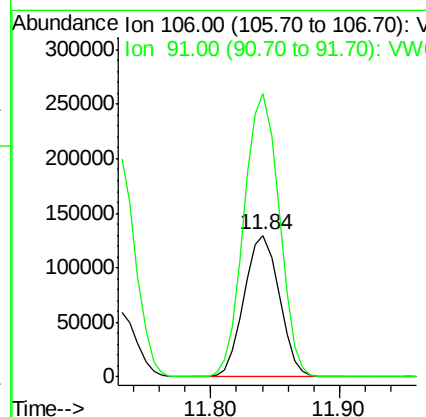
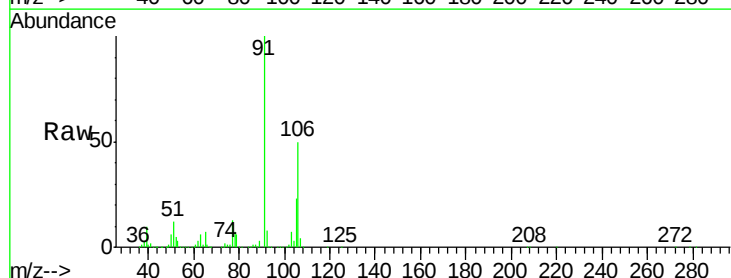
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

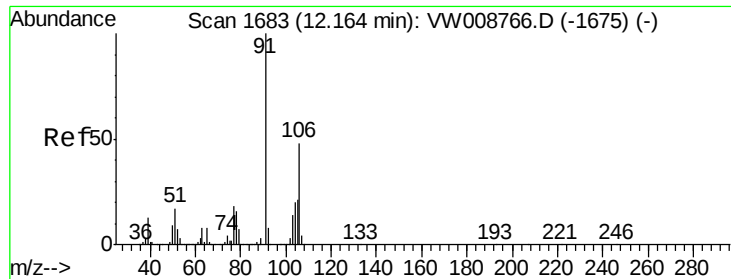
Tot Ion: 91 Resp: 308164  
Ion Ratio Lower Upper  
91 100  
106 29.4 25.0 37.6



#68  
m/p-Xylenes  
Concen: 44.182 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion: 106 Resp: 245926  
Ion Ratio Lower Upper  
106 100  
91 199.8 161.5 242.3

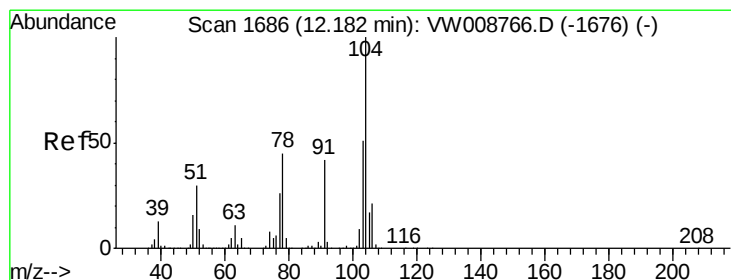
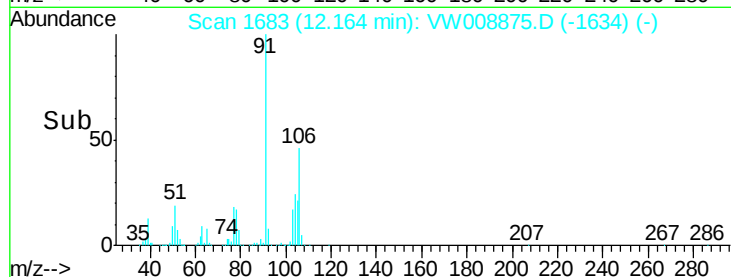
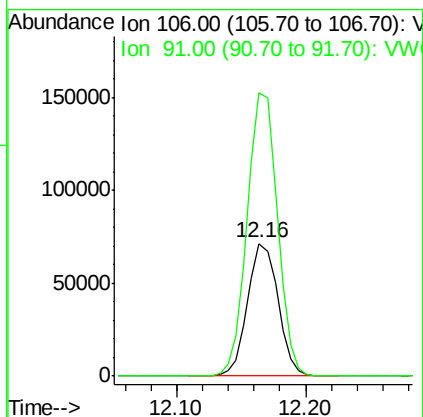
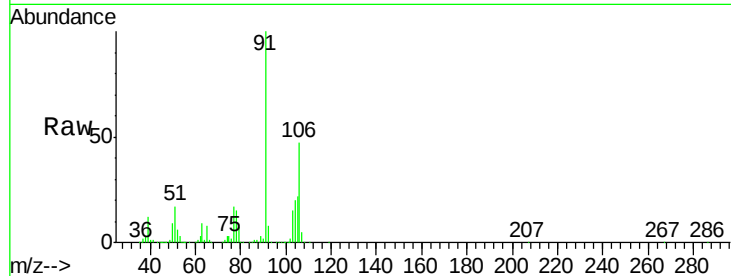




#69  
o-Xylene  
Concen: 22.328 ug/l  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

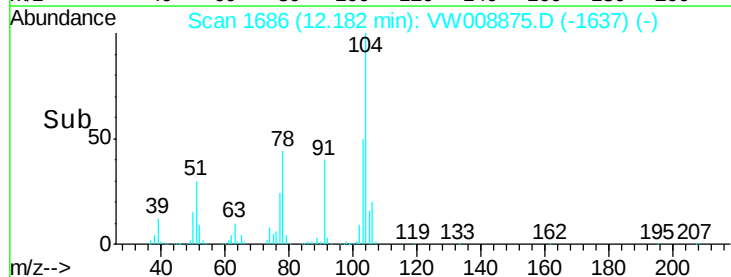
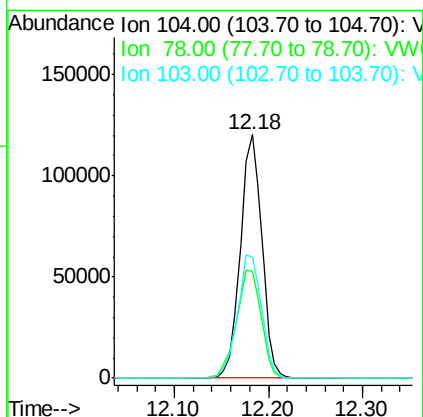
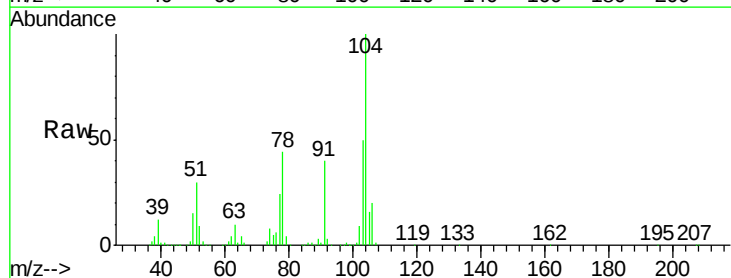
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

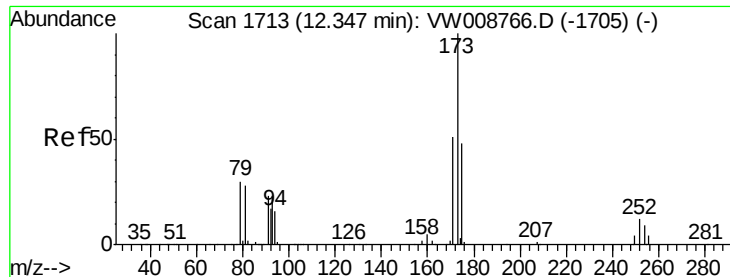
Tot Ion:106 Resp: 116654  
Ion Ratio Lower Upper  
106 100  
91 212.8 106.2 318.6



#70  
Styrene  
Concen: 22.894 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion:104 Resp: 192433  
Ion Ratio Lower Upper  
104 100  
78 50.8 40.8 61.2  
103 56.3 44.2 66.2

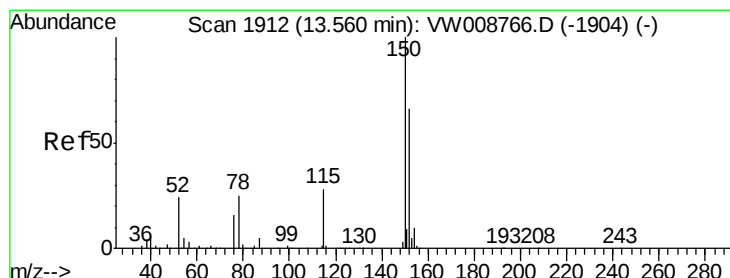
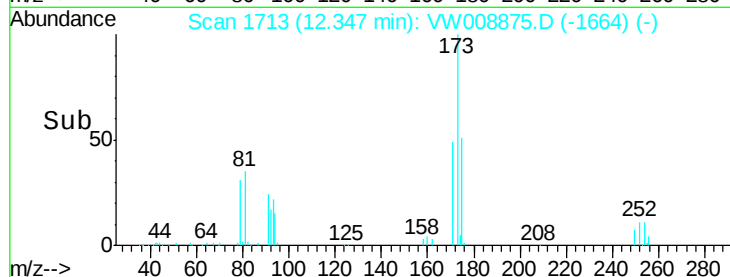
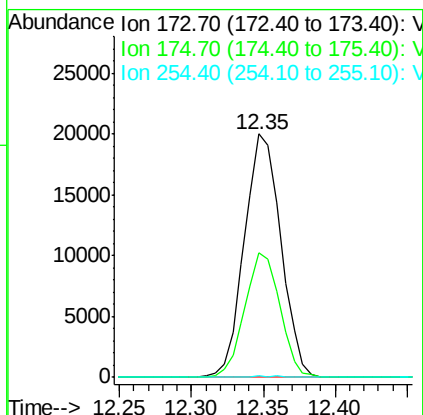
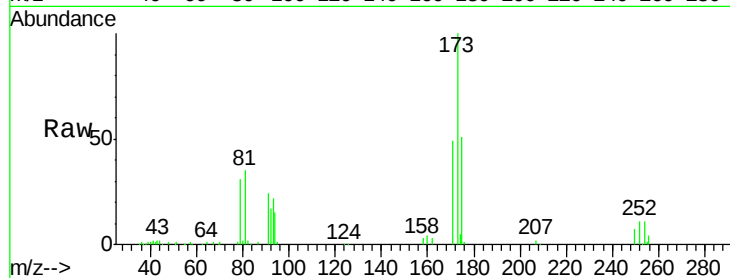




#71  
Bromoform  
Concen: 24.770 ug/l  
RT: 12.35 min Scan# 1713  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

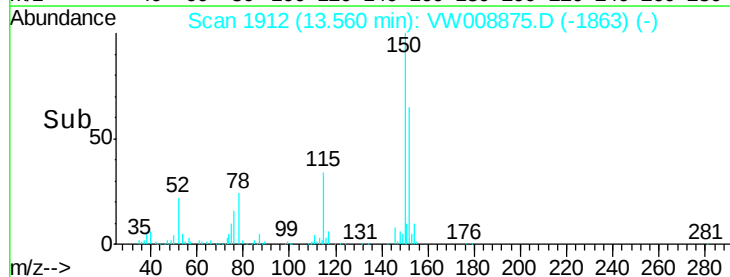
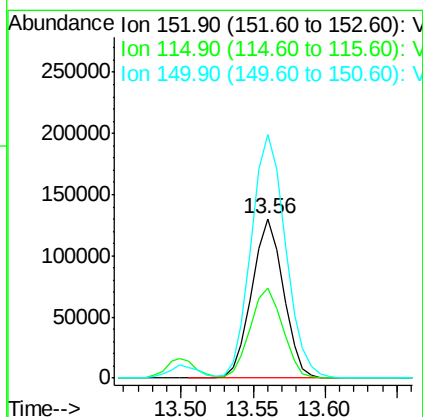
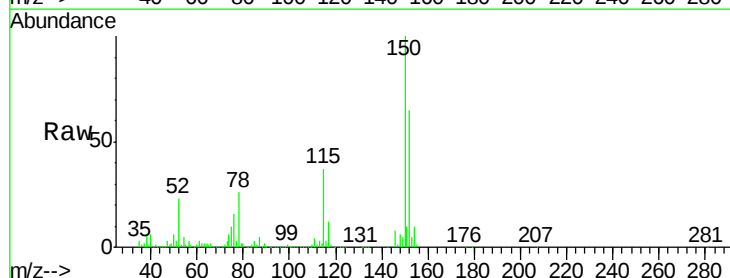
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

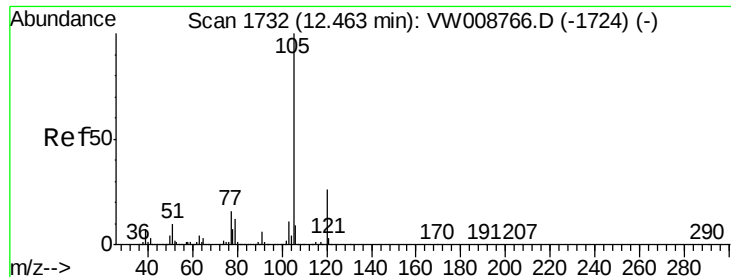
Tot Ion:173 Resp: 35084  
Ion Ratio Lower Upper  
173 100  
175 49.4 24.2 72.6  
254 0.2 0.2 0.4#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion:152 Resp: 198457  
Ion Ratio Lower Upper  
152 100  
115 57.8 28.6 85.8  
150 165.5 0.0 348.0





#73

Isopropylbenzene

Concen: 22.531 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

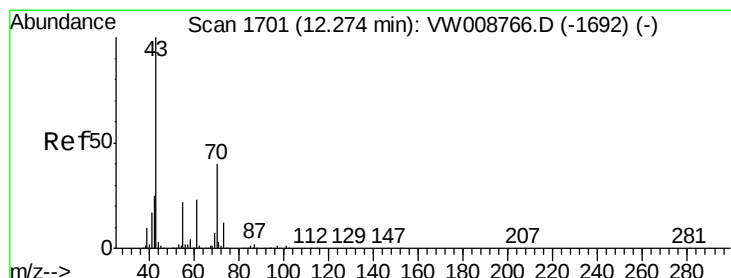
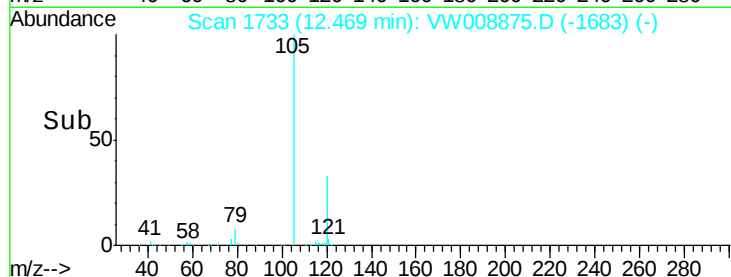
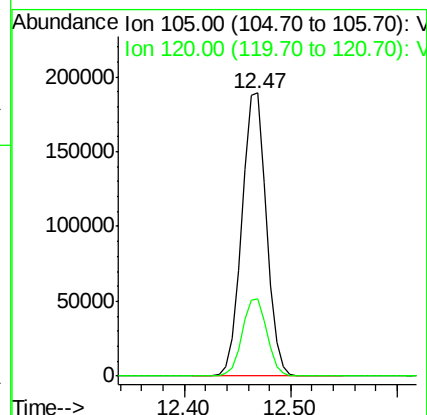
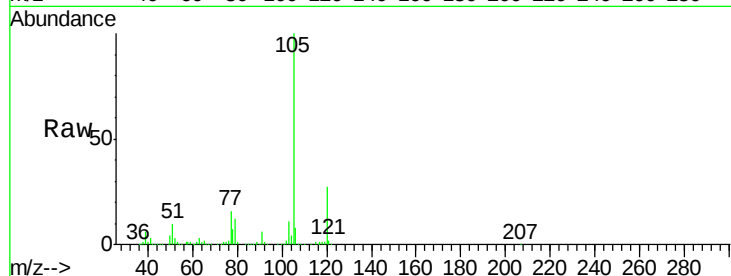
VW0227SBS02

Tot Ion:105 Resp: 306531

Ion Ratio Lower Upper

105 100

120 27.6 13.3 39.9



#74

N-ethyl acetate

Concen: 23.055 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Tgt Ion: 43 Resp: 79011

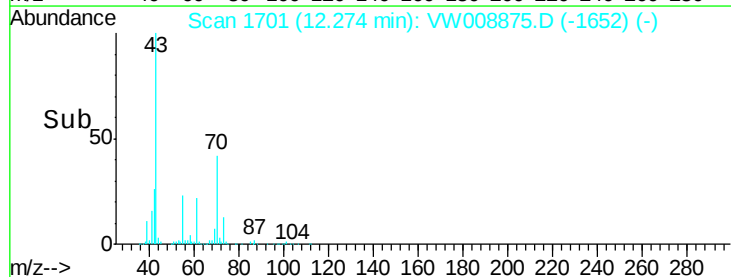
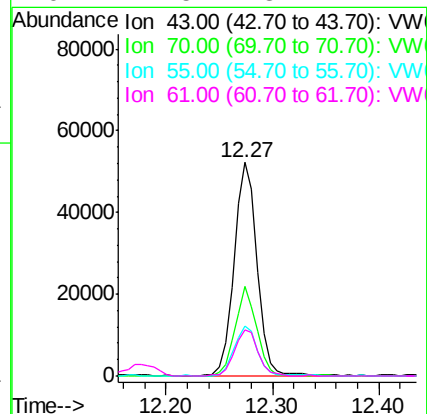
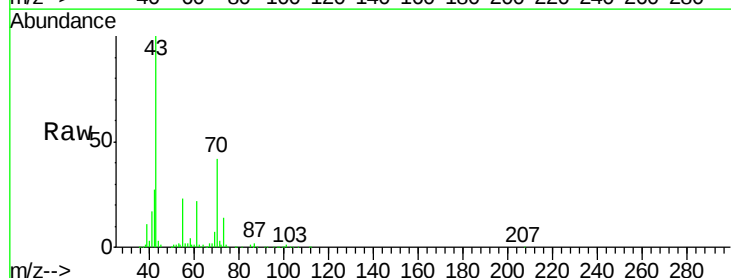
Ion Ratio Lower Upper

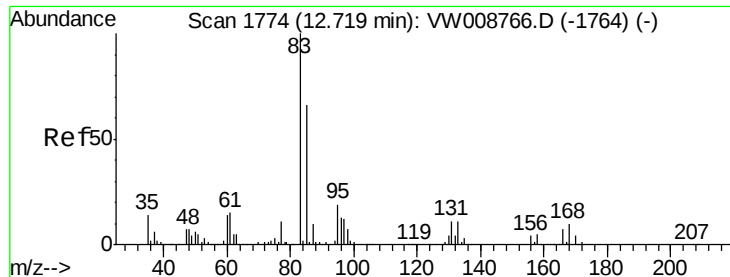
43 100

70 39.3 31.0 46.6

55 24.1 18.7 28.1

61 22.5 18.1 27.1





#75

1,1,2,2-Tetrachloroethane

Concen: 25.487 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

VW0227SBSD02

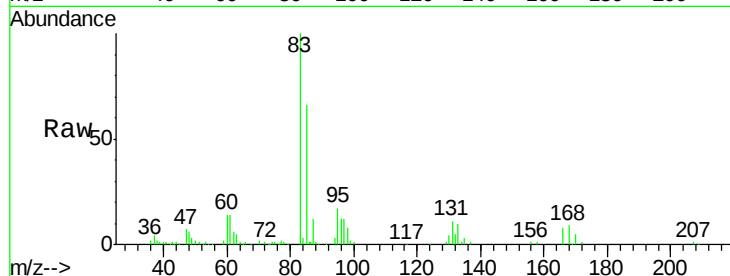
Tot Ion: 83 Resp: 56659

Ion Ratio Lower Upper

83 100

131 11.8 5.5 16.7

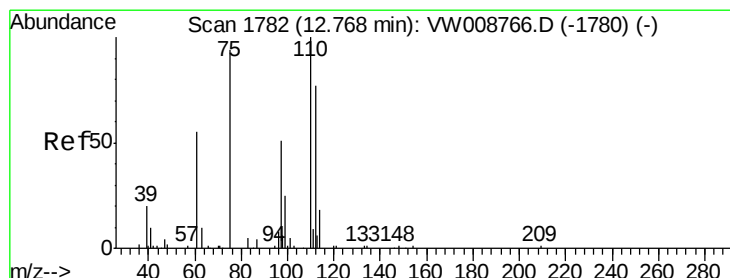
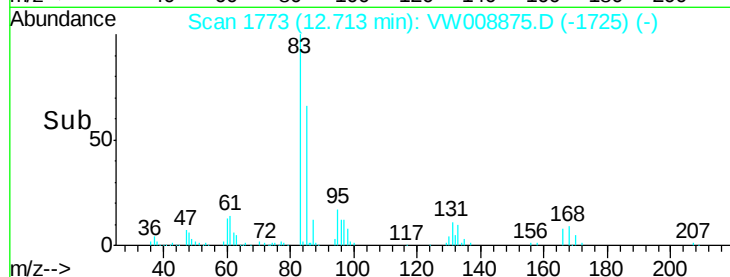
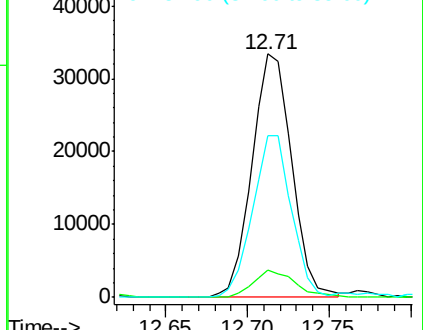
85 64.9 33.0 98.9



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 45.117 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW008875.D

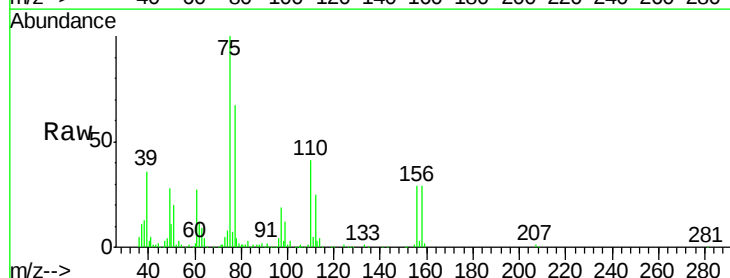
Acq: 28 Feb 2019 02:08

Tgt Ion: 75 Resp: 73926

Ion Ratio Lower Upper

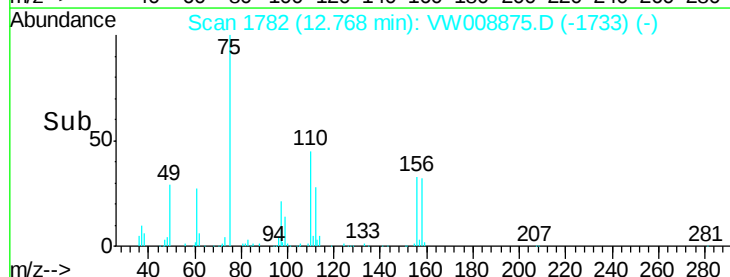
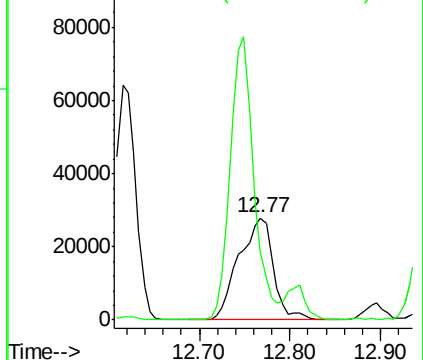
75 100

77 189.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 24.482 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

VW0227SBSD02

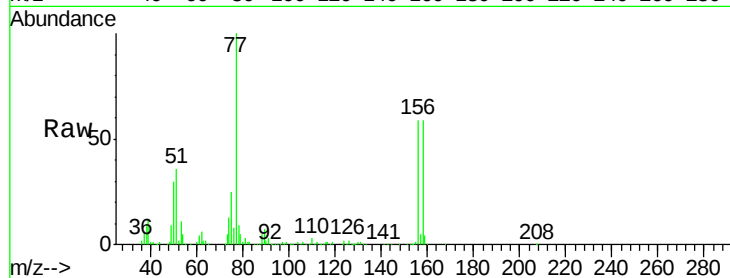
Tot Ion:156 Resp: 78709

Ion Ratio Lower Upper

156 100

77 177.5 89.1 267.4

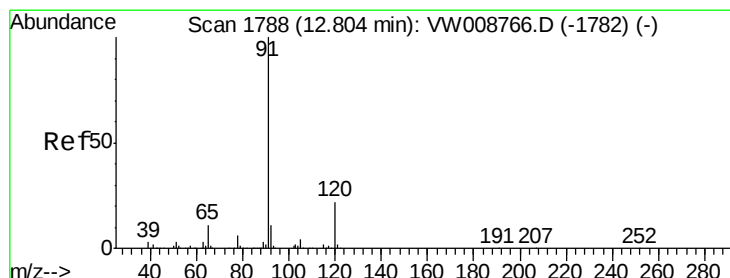
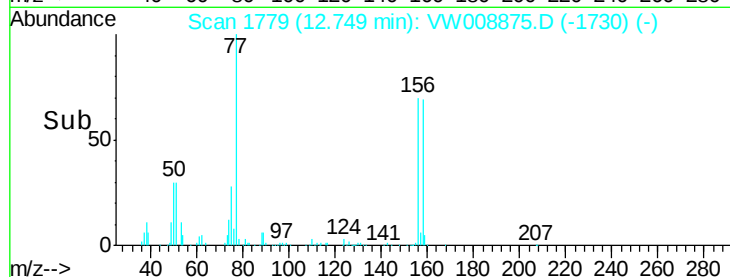
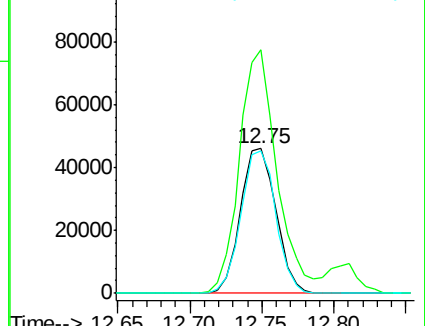
158 97.0 49.2 147.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 22.221 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW008875.D

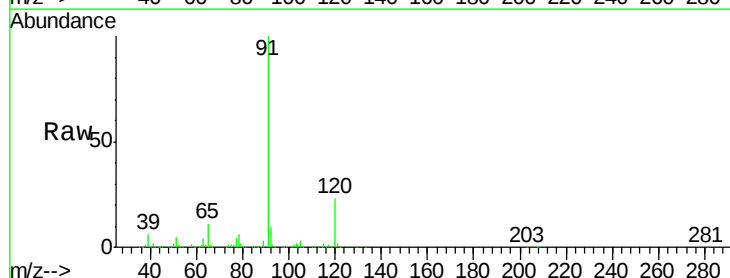
Acq: 28 Feb 2019 02:08

Tgt Ion: 91 Resp: 369808

Ion Ratio Lower Upper

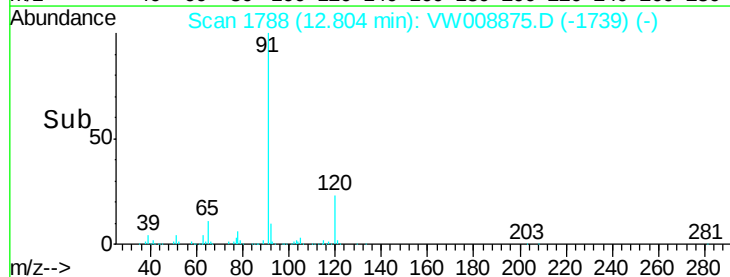
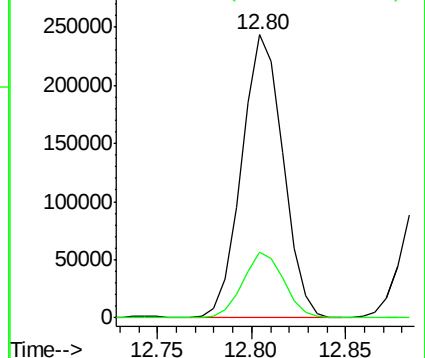
91 100

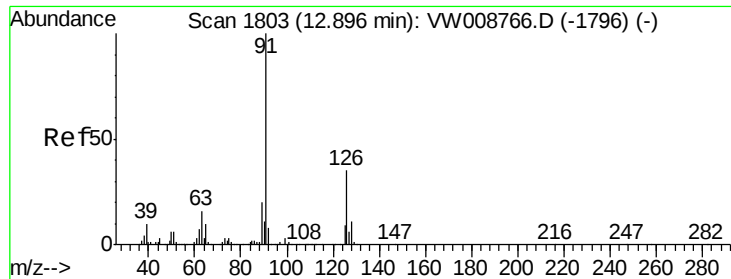
120 23.3 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.995 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

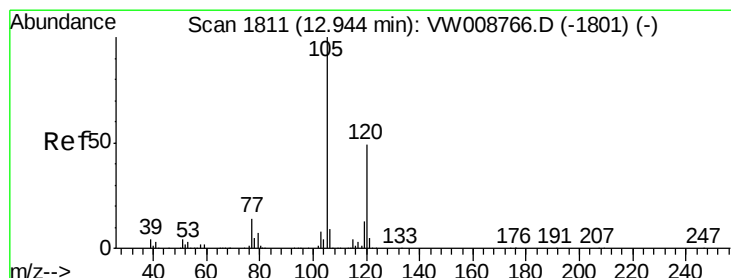
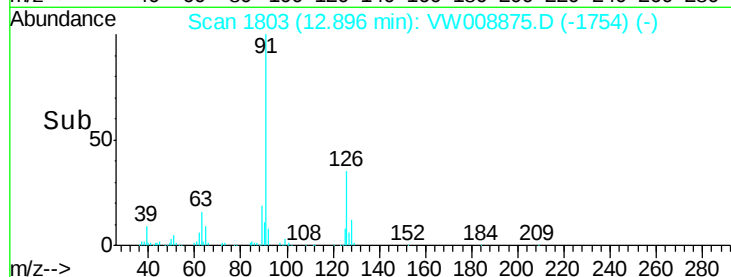
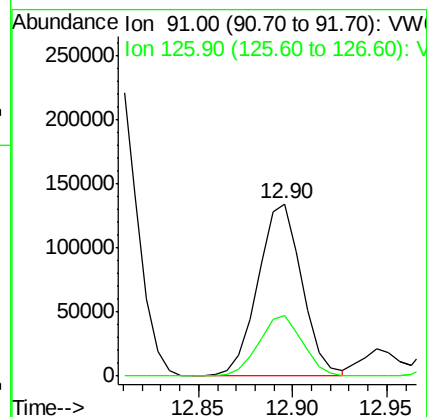
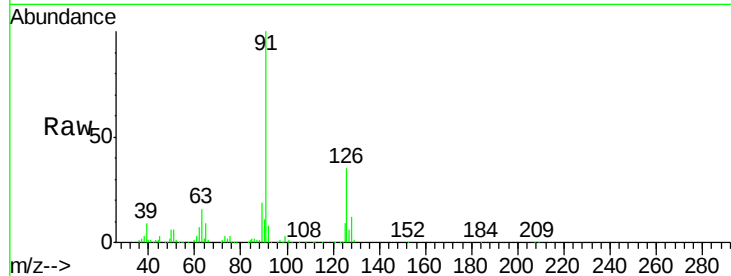
VW0227SBSD02

Tot Ion: 91 Resp: 217269

Ion Ratio Lower Upper

91 100

126 35.3 17.0 51.0



#80

1,3,5-Trimethylbenzene

Concen: 22.401 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008875.D

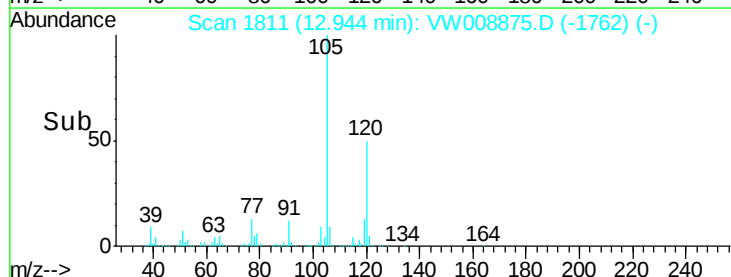
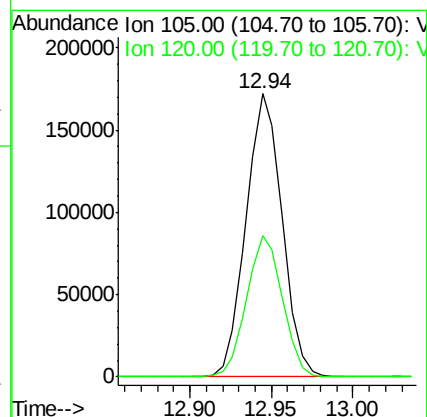
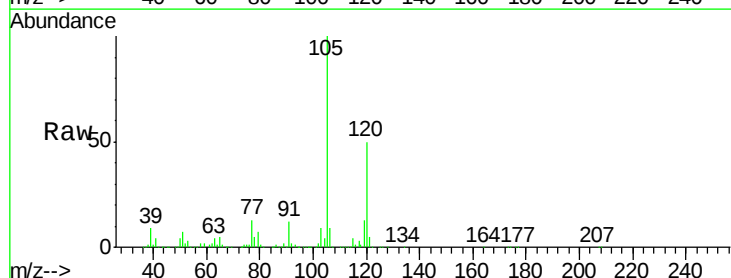
Acq: 28 Feb 2019 02:08

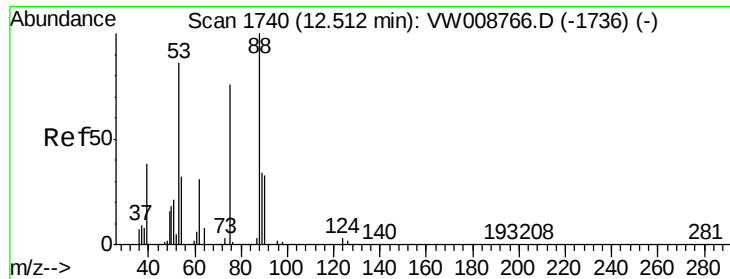
Tgt Ion: 105 Resp: 264845

Ion Ratio Lower Upper

105 100

120 49.5 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 21.644 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

VW0227SBSD02

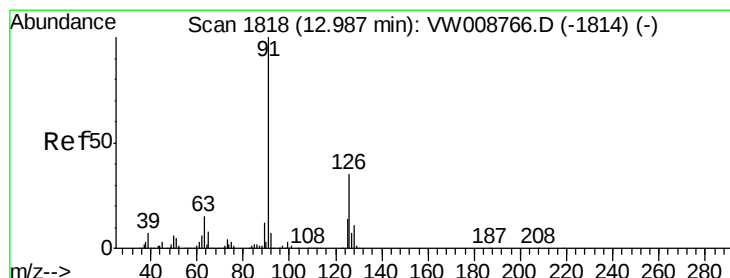
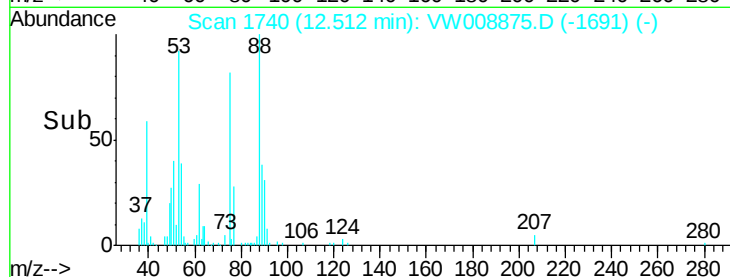
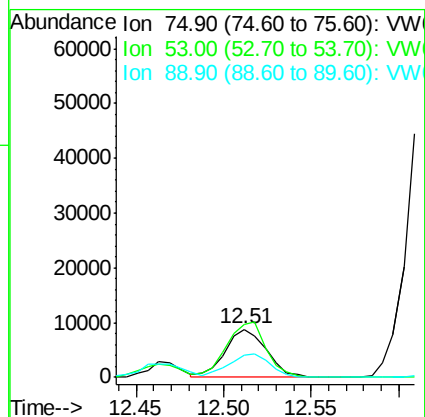
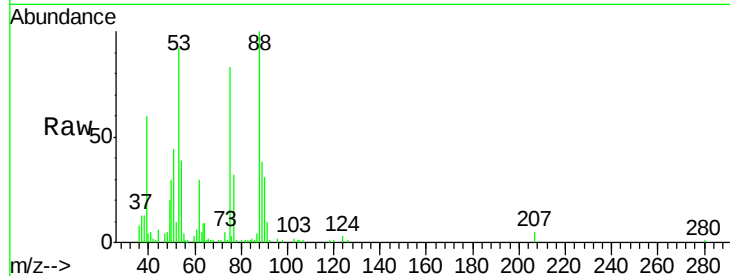
Tot Ion: 75 Resp: 14588

Ion Ratio Lower Upper

75 100

53 110.5 88.2 132.2

89 47.6 39.5 59.3



#82

4-Chlorotoluene

Concen: 22.979 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VW008875.D

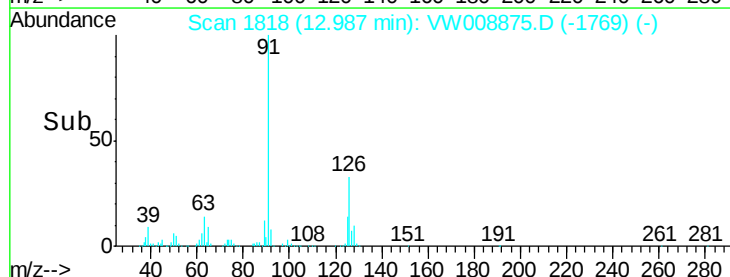
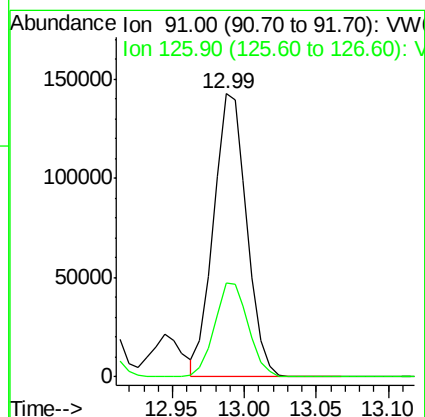
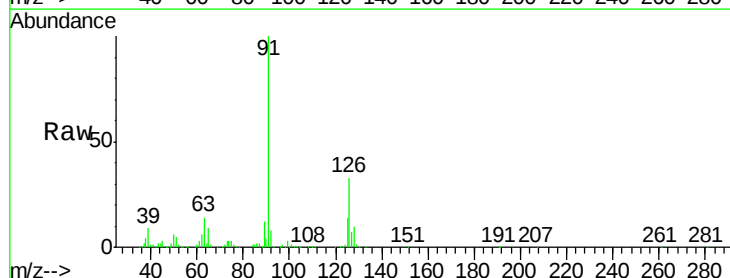
Acq: 28 Feb 2019 02:08

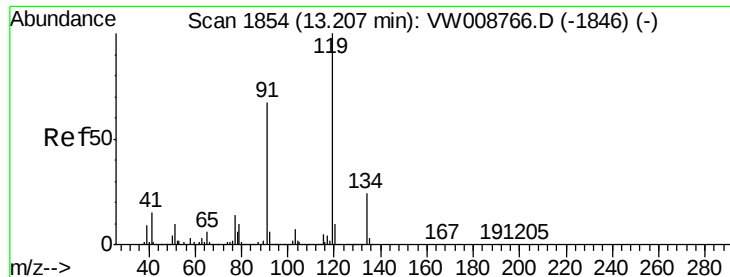
Tgt Ion: 91 Resp: 228804

Ion Ratio Lower Upper

91 100

126 34.1 17.2 51.6

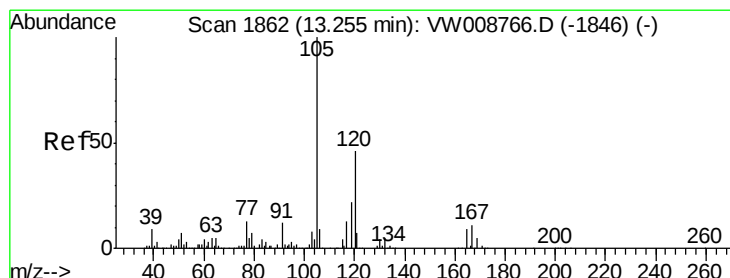
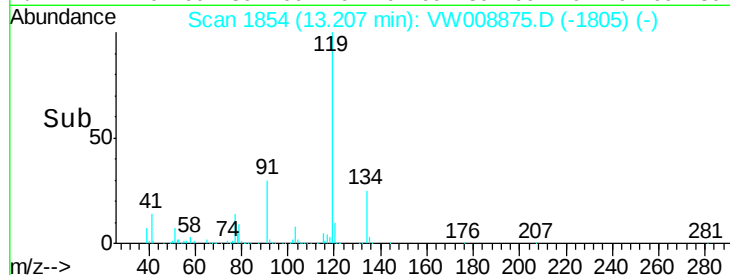
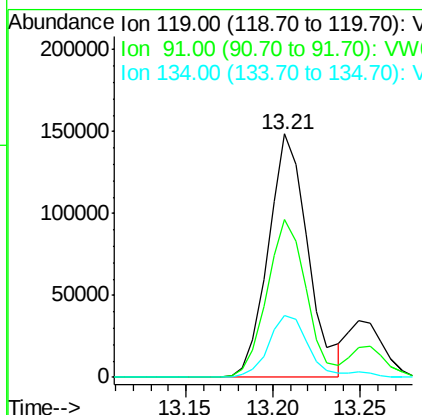
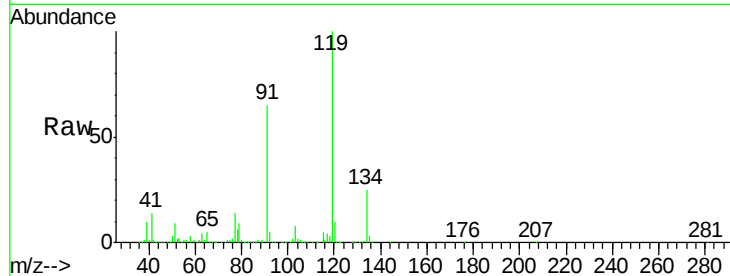




#83  
tert-Butylbenzene  
Concen: 22.974 ug/l  
RT: 13.21 min Scan# 1854  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

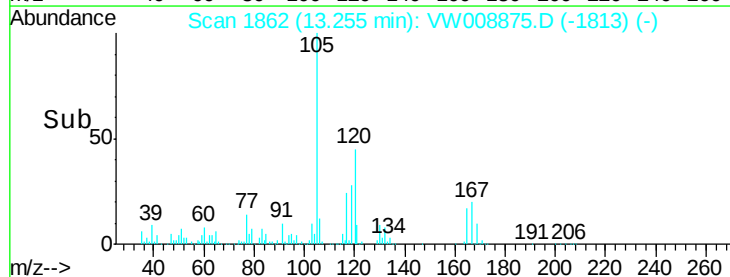
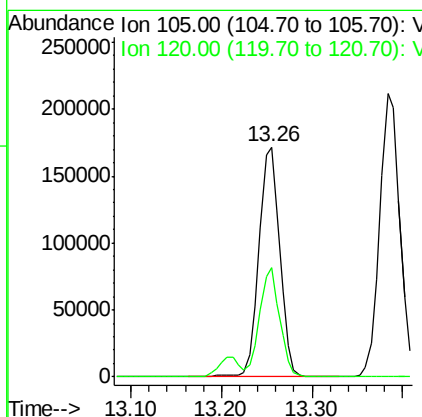
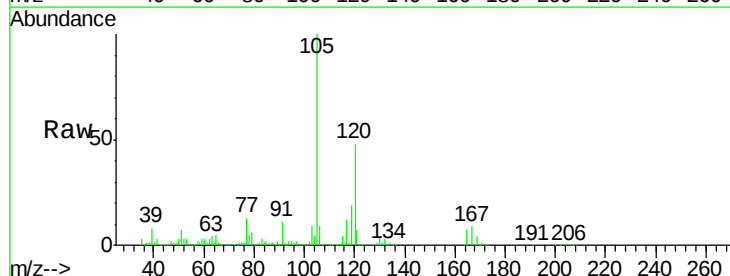
Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

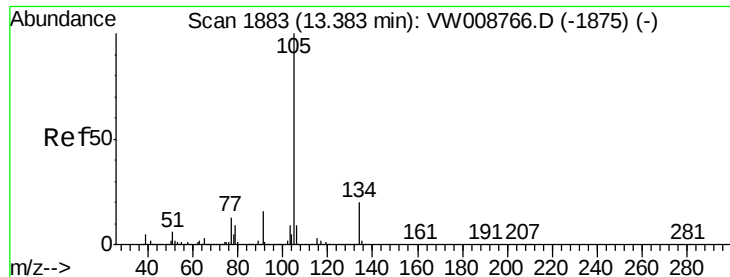
Tot Ion:119 Resp: 234867  
Ion Ratio Lower Upper  
119 100  
91 64.3 33.6 100.8  
134 26.7 13.7 41.1



#84  
1,2,4-Trimethylbenzene  
Concen: 22.293 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion:105 Resp: 272837  
Ion Ratio Lower Upper  
105 100  
120 45.5 22.8 68.4





#85

sec-Butylbenzene

Concen: 22.030 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

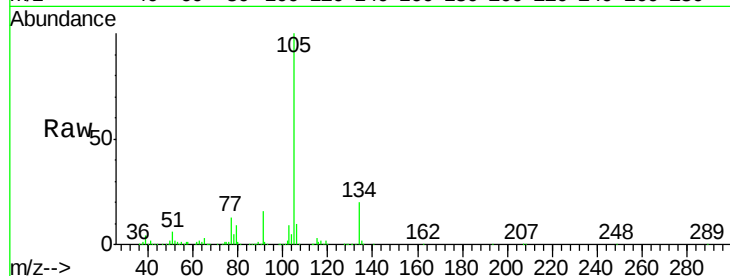
VW0227SBSD02

Tot Ion:105 Resp: 323834

Ion Ratio Lower Upper

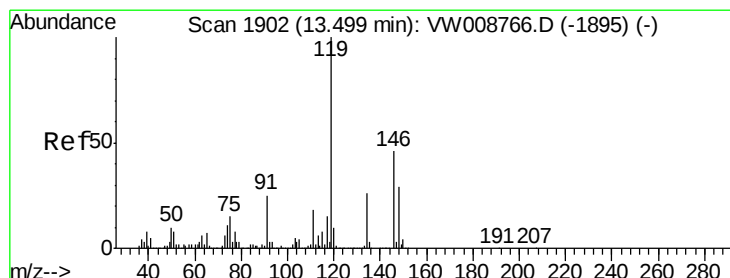
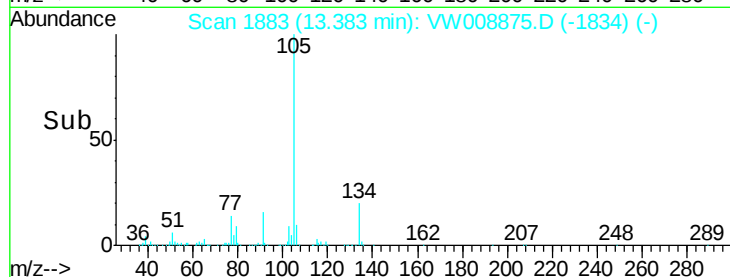
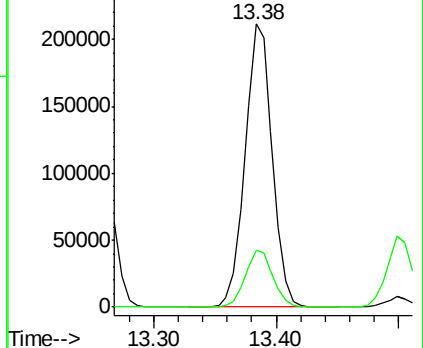
105 100

134 20.5 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.635 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

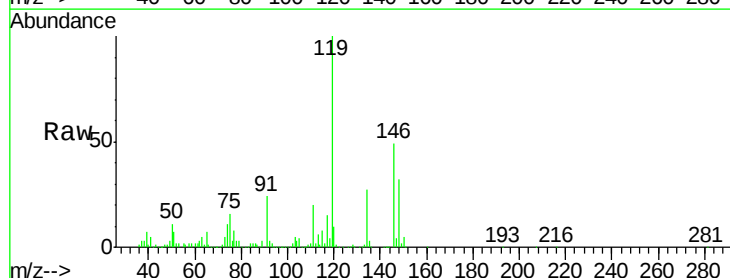
Tgt Ion:119 Resp: 291544

Ion Ratio Lower Upper

119 100

134 26.3 13.1 39.3

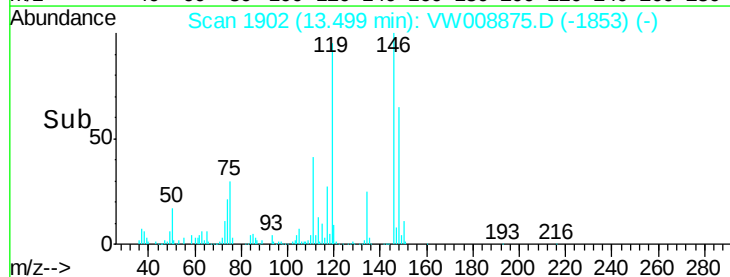
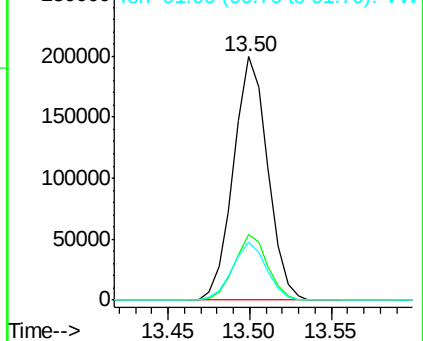
91 23.9 12.1 36.3

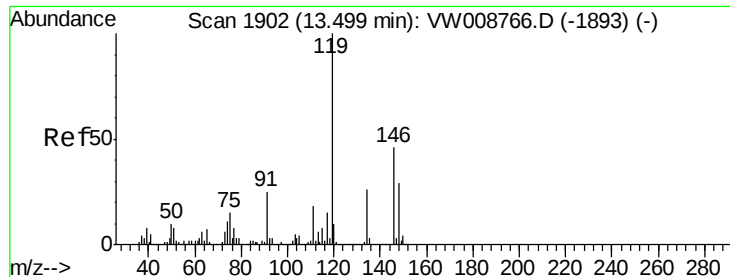


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

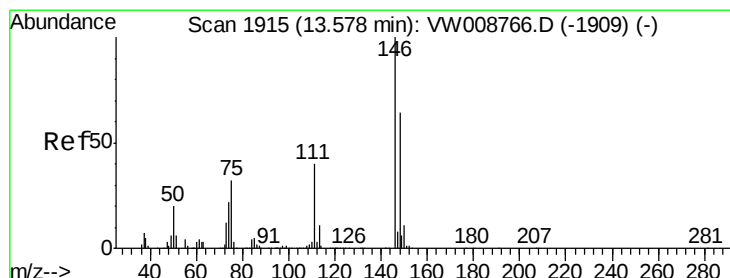
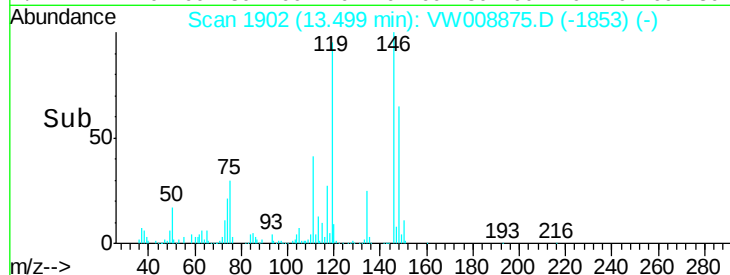
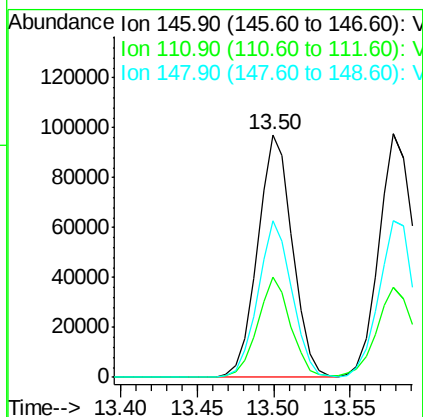
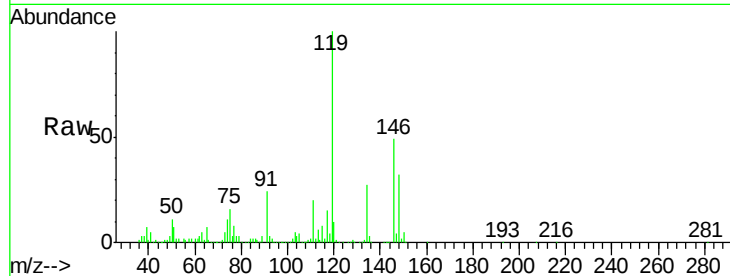




#87  
 1,3-Dichlorobenzene  
 Concen: 23.052 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

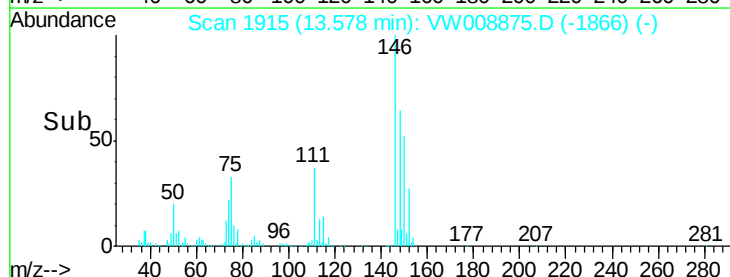
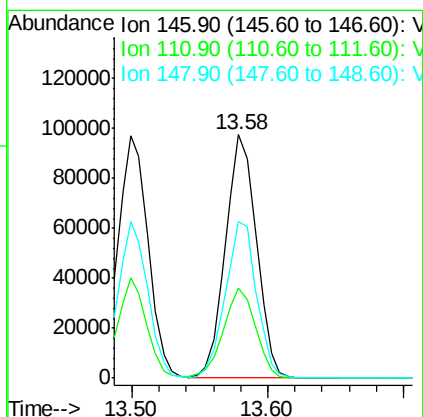
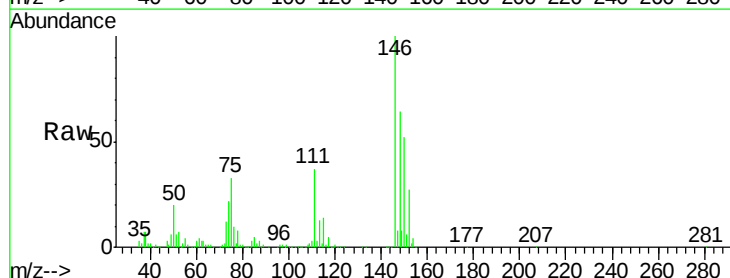
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0227SBSD02

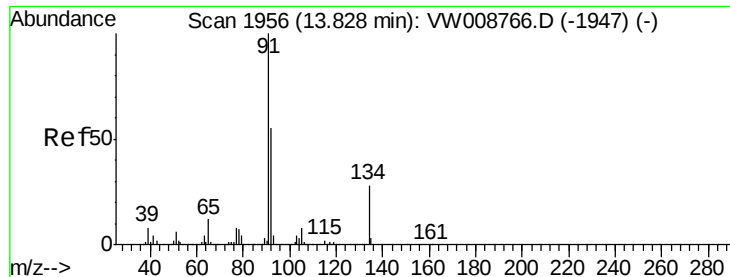
Tot Ion:146 Resp: 153765  
 Ion Ratio Lower Upper  
 146 100  
 111 39.3 19.9 59.7  
 148 63.4 31.6 94.8



#88  
 1,4-Dichlorobenzene  
 Concen: 23.605 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

Tgt Ion:146 Resp: 155182  
 Ion Ratio Lower Upper  
 146 100  
 111 38.3 19.3 57.9  
 148 64.5 31.9 95.9





#89

n-Butylbenzene

Concen: 20.467 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW008875.D

Acq: 28 Feb 2019 02:08

Instrument :

MSVOA\_W

ClientSampleId :

VW0227SBSD02

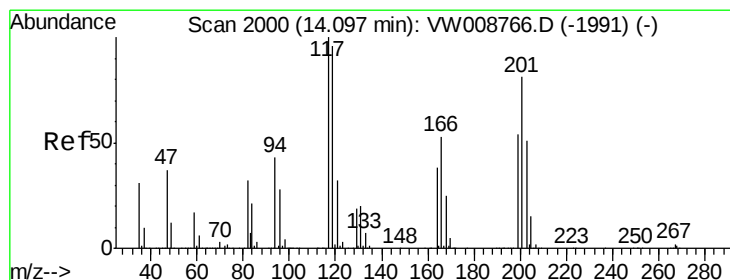
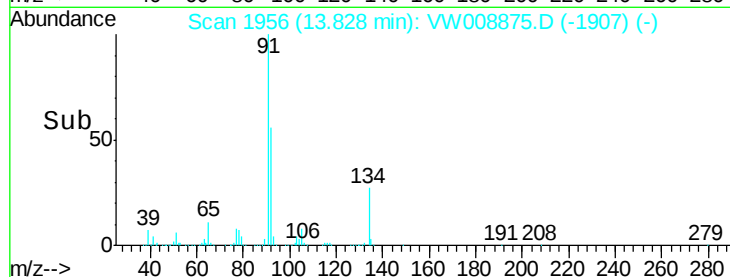
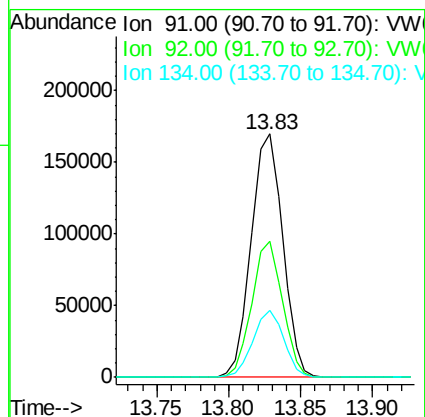
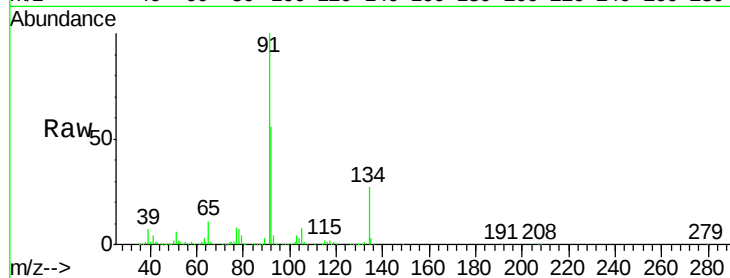
Tot Ion: 91 Resp: 258382

Ion Ratio Lower Upper

91 100

92 54.0 26.8 80.4

134 26.8 13.5 40.4



#90

Hexachloroethane

Concen: 23.109 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW008875.D

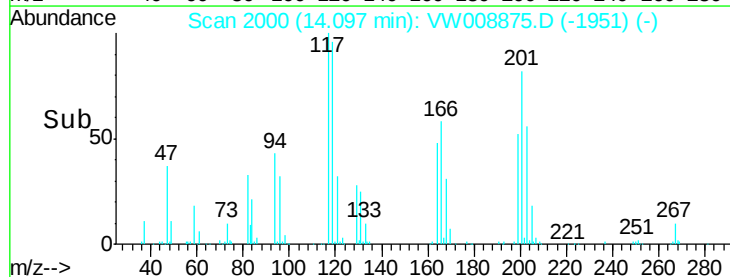
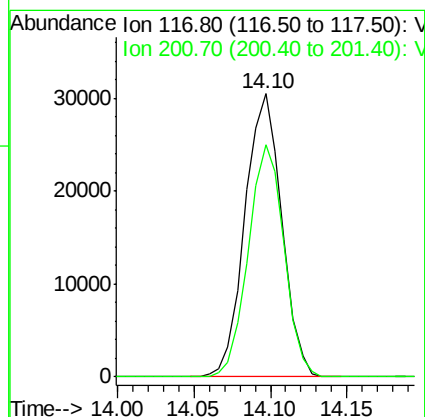
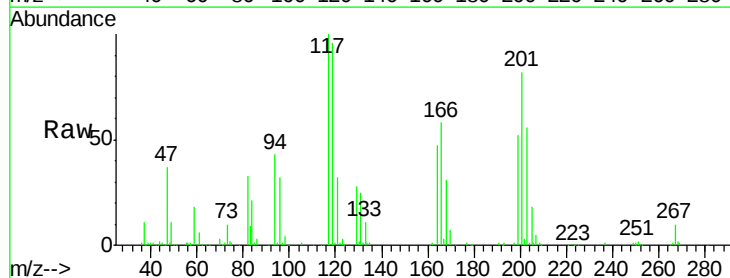
Acq: 28 Feb 2019 02:08

Tgt Ion: 117 Resp: 50980

Ion Ratio Lower Upper

117 100

201 79.5 40.3 120.8

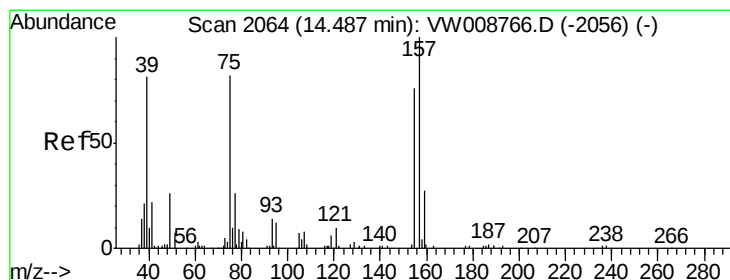
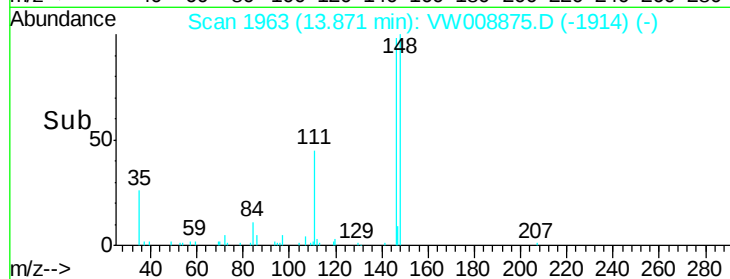
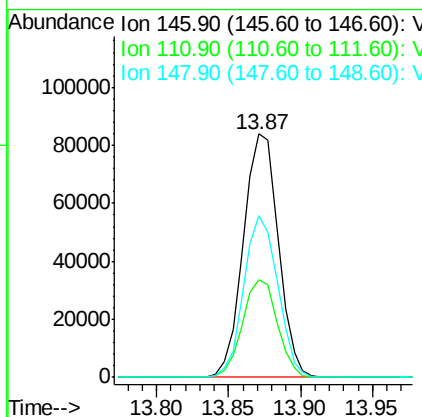
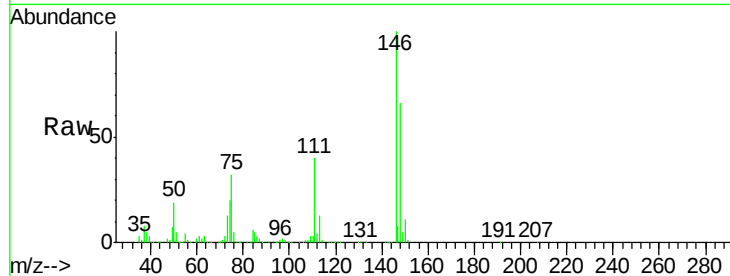




#91  
 1,2-Dichlorobenzene  
 Concen: 23.694 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

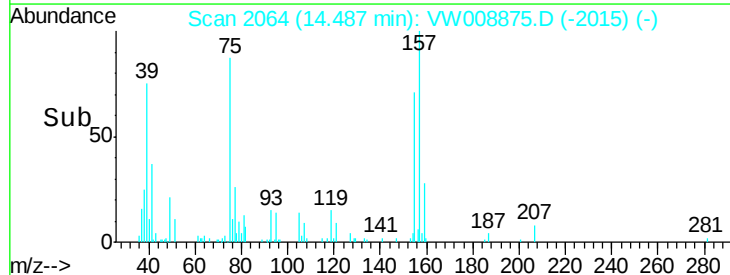
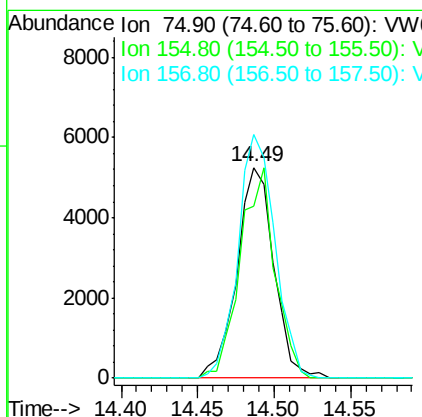
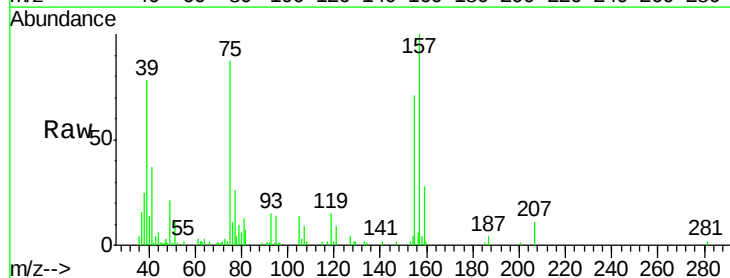
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0227SBSD02

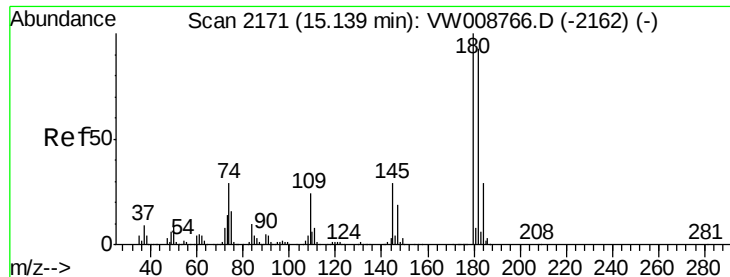
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.2  | 20.3  | 60.8  |
| 148     | 64.5  | 32.5  | 97.5  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 21.963 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 93.7  | 41.8  | 125.4 |
| 157     | 115.7 | 56.6  | 169.9 |

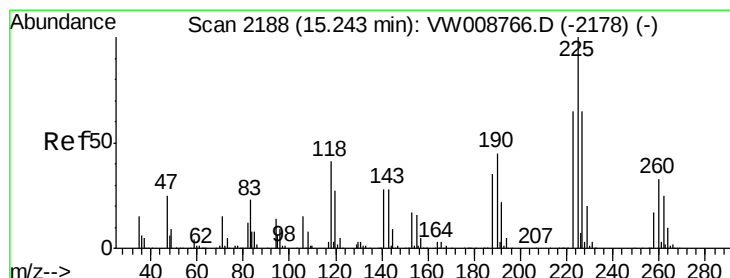
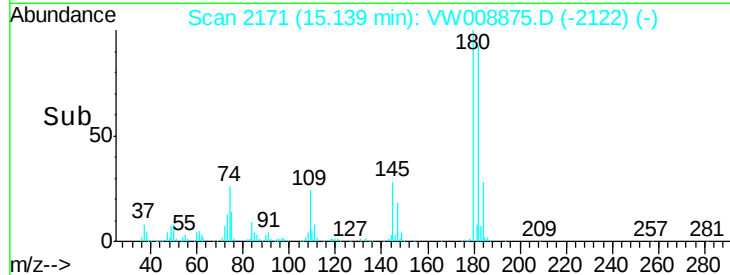
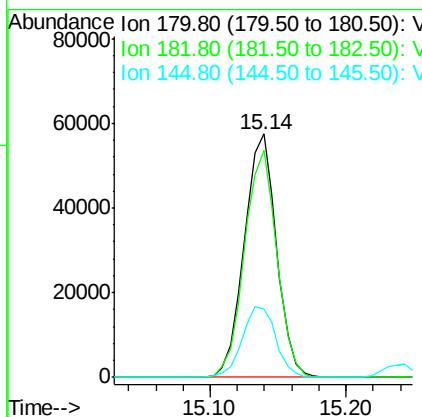
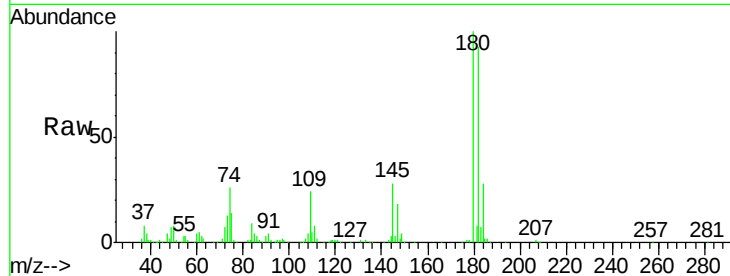




#93  
 1,2,4-Trichlorobenzene  
 Concen: 22.222 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

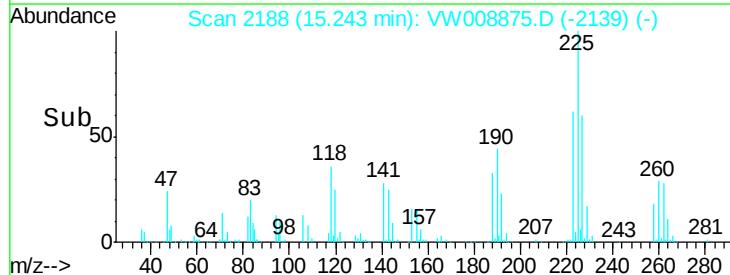
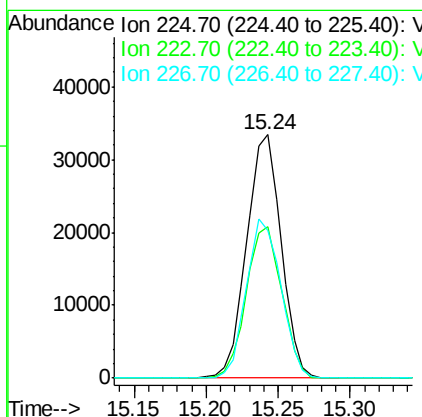
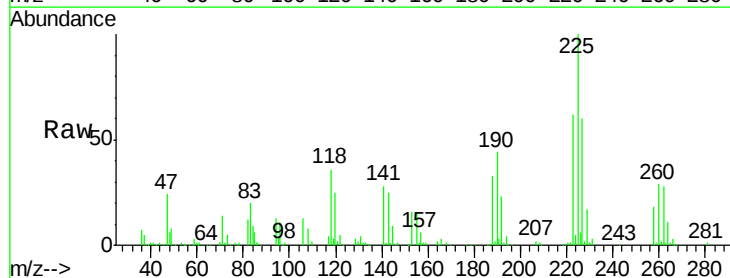
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0227SBSD02

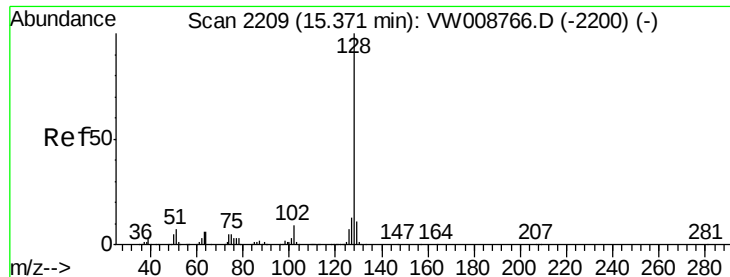
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.6  | 47.2  | 141.6 |
| 145     | 30.3  | 14.4  | 43.0  |



#94  
 Hexachlorobutadiene  
 Concen: 21.948 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. 0.00 min  
 Lab File: VW008875.D  
 Acq: 28 Feb 2019 02:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.2  | 31.5  | 94.5  |
| 227     | 65.2  | 31.6  | 94.8  |

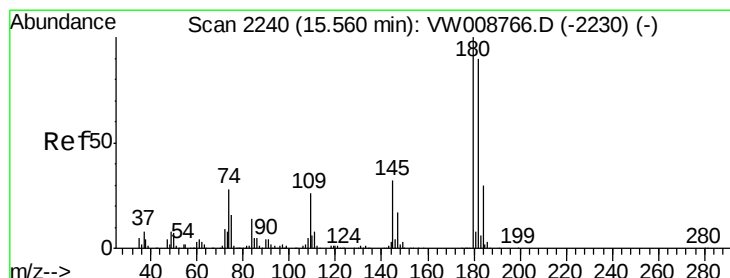
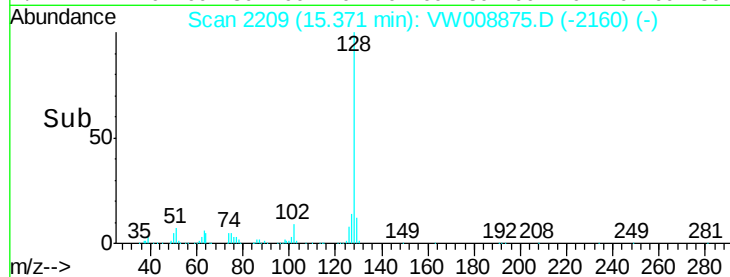
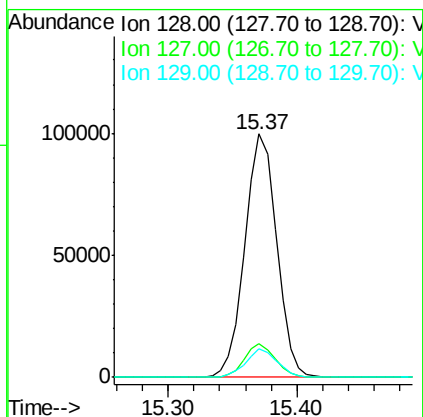
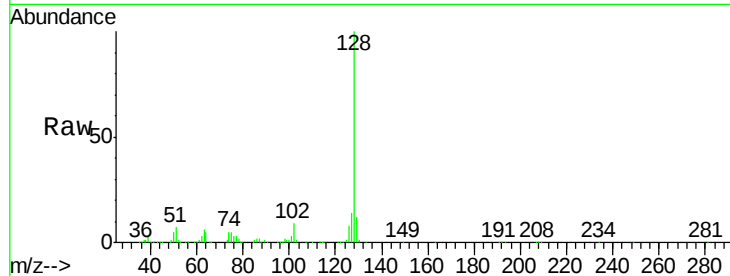




#95  
Naphthalene  
Concen: 23.353 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Instrument :  
MSVOA\_W  
ClientSampleId :  
VW0227SBSD02

Tot Ion:128 Resp: 170272  
Ion Ratio Lower Upper  
128 100  
127 13.5 10.8 16.2  
129 11.4 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 23.106 ug/l  
RT: 15.56 min Scan# 2240  
Delta R.T. 0.00 min  
Lab File: VW008875.D  
Acq: 28 Feb 2019 02:08

Tgt Ion:180 Resp: 85553  
Ion Ratio Lower Upper  
180 100  
182 97.3 46.9 140.8  
145 31.7 15.9 47.6

