

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_F\Data\VF121818\  
 Data File : VF061059.D  
 Acq On : 18 Dec 2018 13:31  
 Operator : VA/AP  
 Sample : VF1218SBS02  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

Quant Time: Dec 19 01:22:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.87  | 168  | 173369   | 50.00 | ug/l  | -0.04    |
| 34) 1,4-Difluorobenzene    | 5.60  | 114  | 294312   | 50.00 | ug/l  | -0.04    |
| 63) Chlorobenzene-d5       | 9.78  | 117  | 277183   | 50.00 | ug/l  | -0.03    |
| 72) 1,4-Dichlorobenzene-d4 | 12.55 | 152  | 144023   | 50.00 | ug/l  | -0.02    |

|                             |        |     |          |       |         |       |
|-----------------------------|--------|-----|----------|-------|---------|-------|
| System Monitoring Compounds |        |     |          |       |         |       |
| 33) 1,2-Dichloroethane-d4   | 4.85   | 65  | 119565   | 58.54 | ug/l    | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 117.08% |       |
| 35) Dibromofluoromethane    | 4.11   | 113 | 128471   | 55.02 | ug/l    | -0.04 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 110.04% |       |
| 50) Toluene-d8              | 7.55   | 98  | 342748   | 49.83 | ug/l    | -0.04 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.66%  |       |
| 62) 4-Bromofluorobenzene    | 11.41  | 95  | 162892   | 52.11 | ug/l    | -0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.22% |       |

| Target Compounds              |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.96 | 85  | 56530  | 21.808  | ug/l   | 94     |
| 3) Chloromethane              | 1.10 | 50  | 39493  | 23.413  | ug/l   | 89     |
| 4) Vinyl Chloride             | 1.14 | 62  | 39285  | 24.968  | ug/l   | 94     |
| 5) Bromomethane               | 1.32 | 94  | 26476  | 23.864  | ug/l   | 87     |
| 6) Chloroethane               | 1.39 | 64  | 17825  | 26.208  | ug/l # | 86     |
| 7) Trichlorofluoromethane     | 1.48 | 101 | 81867  | 24.250  | ug/l # | 82     |
| 8) Diethyl Ether              | 1.63 | 74  | 11977  | 24.672  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.83 | 101 | 40081  | 23.485  | ug/l   | 94     |
| 10) Methyl Iodide             | 1.90 | 142 | 63908m | 24.635  | ug/l   |        |
| 11) Tert butyl alcohol        | 2.57 | 59  | 10160  | 121.356 | ug/l # | 90     |
| 12) 1,1-Dichloroethene        | 1.79 | 96  | 31799  | 23.164  | ug/l   | 87     |
| 13) Acrolein                  | 2.01 | 56  | 6643   | 83.747  | ug/l   | 90     |
| 14) Allyl chloride            | 2.10 | 41  | 37834  | 22.112  | ug/l   | 95     |
| 15) Acrylonitrile             | 2.95 | 53  | 23349  | 124.399 | ug/l   | 97     |
| 16) Acetone                   | 2.25 | 43  | 51001  | 135.418 | ug/l   | 95     |
| 17) Carbon Disulfide          | 1.83 | 76  | 84471  | 22.950  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.34 | 43  | 17909  | 27.604  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 2.43 | 73  | 73958  | 23.921  | ug/l   | 94     |
| 20) Methylene Chloride        | 2.25 | 84  | 34655m | 25.082  | ug/l   |        |
| 21) trans-1,2-Dichloroethene  | 2.30 | 96  | 24473  | 18.492  | ug/l   | 95     |
| 22) Diisopropyl ether         | 2.80 | 45  | 116789 | 25.076  | ug/l   | 96     |
| 23) Vinyl Acetate             | 3.19 | 43  | 267191 | 125.506 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 2.87 | 63  | 68701  | 24.793  | ug/l   | 97     |
| 25) 2-Butanone                | 4.34 | 43  | 84370  | 129.517 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 3.60 | 77  | 41007  | 22.827  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 3.48 | 96  | 51649  | 23.972  | ug/l   | 92     |
| 28) Bromochloromethane        | 3.72 | 49  | 33520  | 25.206  | ug/l # | 81     |
| 29) Tetrahydrofuran           | 4.09 | 42  | 32264  | 116.844 | ug/l   | 100    |
| 30) Chloroform                | 3.86 | 83  | 105008 | 24.623  | ug/l   | 97     |
| 31) Cyclohexane               | 3.69 | 56  | 68756m | 23.909  | ug/l   |        |
| 32) 1,1,1-Trichloroethane     | 4.10 | 97  | 64178  | 21.699  | ug/l   | 93     |
| 36) 1,1-Dichloropropene       | 4.28 | 75  | 75290  | 23.064  | ug/l   | 99     |
| 37) Ethyl Acetate             | 4.12 | 43  | 32617  | 24.587  | ug/l # | 84     |
| 38) Carbon Tetrachloride      | 3.99 | 117 | 62423  | 21.650  | ug/l   | 94     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_F\Data\VF121818\  
 Data File : VF061059.D  
 Acq On : 18 Dec 2018 13:31  
 Operator : VA/AP  
 Sample : VF1218SBS02  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

Quant Time: Dec 19 01:22:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 27 01:36:26 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.46  | 83   | 71772    | 20.980  | ug/l   | 98       |
| 40) Benzene                    | 4.63  | 78   | 168438   | 23.356  | ug/l   | 96       |
| 41) Methacrylonitrile          | 4.75  | 41   | 17352    | 23.183  | ug/l # | 87       |
| 42) 1,2-Dichloroethane         | 4.95  | 62   | 65362    | 24.826  | ug/l   | 95       |
| 43) Isopropyl Acetate          | 6.96  | 43   | 41612    | 24.010  | ug/l # | 96       |
| 44) Trichloroethene            | 5.51  | 130  | 55620    | 23.588  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 6.24  | 63   | 41841    | 22.339  | ug/l   | 98       |
| 46) Dibromomethane             | 6.08  | 93   | 29969    | 23.587  | ug/l   | 88       |
| 47) Bromodichloromethane       | 6.39  | 83   | 82247    | 24.372  | ug/l   | 96       |
| 48) Methyl methacrylate        | 6.72  | 41   | 27926    | 23.257  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 6.71  | 88   | 4735     | 538.796 | ug/l # | 79       |
| 51) 4-Methyl-2-Pentanone       | 8.26  | 43   | 148081   | 121.049 | ug/l   | 98       |
| 52) Toluene                    | 7.63  | 92   | 114409   | 22.585  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 8.28  | 75   | 65069    | 23.705  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 7.31  | 75   | 80412    | 23.663  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 8.49  | 97   | 35644    | 24.148  | ug/l   | 93       |
| 56) Ethyl methacrylate         | 8.63  | 69   | 37772    | 23.036  | ug/l # | 94       |
| 57) 1,3-Dichloropropane        | 8.85  | 76   | 63537    | 24.604  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 7.30  | 63   | 36062    | 215.014 | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.50  | 43   | 105005   | 122.351 | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.72  | 129  | 49802    | 22.645  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 8.99  | 107  | 35369    | 22.181  | ug/l   | 100      |
| 64) Tetrachloroethene          | 8.15  | 164  | 47084    | 22.240  | ug/l   | 97       |
| 65) Chlorobenzene              | 9.80  | 112  | 125474   | 23.269  | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.93  | 131  | 52179    | 22.509  | ug/l   | 98       |
| 67) Ethyl Benzene              | 9.90  | 91   | 240067   | 23.914  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.14 | 106  | 173427   | 48.033  | ug/l   | 96       |
| 69) o-Xylene                   | 10.72 | 106  | 91197    | 22.906  | ug/l   | 92       |
| 70) Styrene                    | 10.79 | 104  | 133773   | 24.238  | ug/l   | 99       |
| 71) Bromoform                  | 10.78 | 173  | 26342    | 23.525  | ug/l # | 95       |
| 73) Isopropylbenzene           | 11.12 | 105  | 273795   | 24.056  | ug/l   | 99       |
| 74) N-amyl acetate             | 11.37 | 43   | 62812    | 23.900  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.70 | 83   | 46068    | 24.594  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 11.79 | 75   | 35116    | 25.792  | ug/l   | 89       |
| 77) Bromobenzene               | 11.50 | 156  | 56992    | 22.840  | ug/l   | 87       |
| 78) n-propylbenzene            | 11.60 | 91   | 327244   | 24.552  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 11.72 | 91   | 182230   | 23.844  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 11.82 | 105  | 227355   | 24.606  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-buten | 11.87 | 75   | 15893m   | 23.824  | ug/l   |          |
| 82) 4-Chlorotoluene            | 11.90 | 91   | 196431   | 24.423  | ug/l   | 96       |
| 83) tert-Butylbenzene          | 12.13 | 119  | 226756   | 24.093  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 12.21 | 105  | 217208   | 23.555  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 12.31 | 105  | 315724   | 24.505  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 12.46 | 119  | 256303   | 23.727  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.47 | 146  | 111226   | 23.434  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.56 | 146  | 111207   | 24.042  | ug/l   | 96       |
| 89) n-Butylbenzene             | 12.85 | 91   | 269276   | 24.653  | ug/l   | 96       |
| 90) Hexachloroethane           | 12.92 | 117  | 59842    | 23.006  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 12.95 | 146  | 101570   | 22.597  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.65 | 75   | 8456     | 23.349  | ug/l   | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_F\Data\VF121818\  
Data File : VF061059.D  
Acq On : 18 Dec 2018 13:31  
Operator : VA/AP  
Sample : VF1218SBS02  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 5 Sample Multiplier: 1

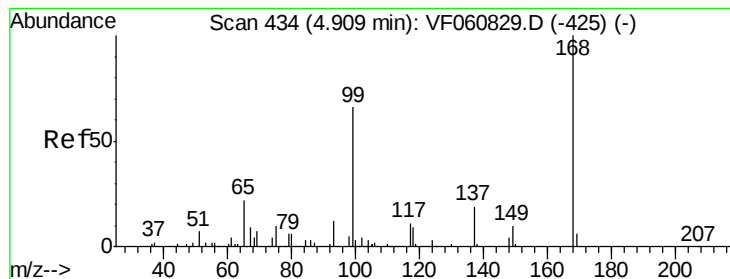
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

Quant Time: Dec 19 01:22:01 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F112618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 27 01:36:26 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.20 | 180  | 79281    | 25.244 | ug/l  | 92       |
| 94) Hexachlorobutadiene    | 14.19 | 225  | 48991    | 23.401 | ug/l  | 97       |
| 95) Naphthalene            | 14.46 | 128  | 132969   | 19.693 | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene | 14.61 | 180  | 68354    | 23.440 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

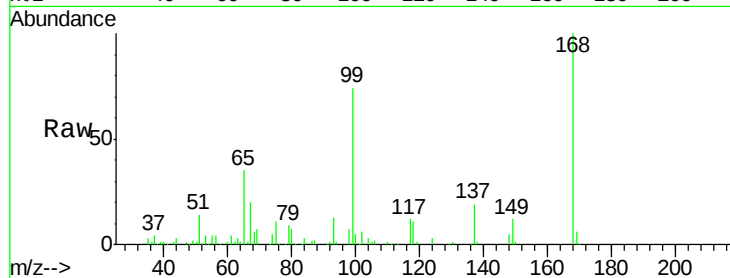
VF1218SBS02

Tgt Ion:168 Resp: 173369

Ion Ratio Lower Upper

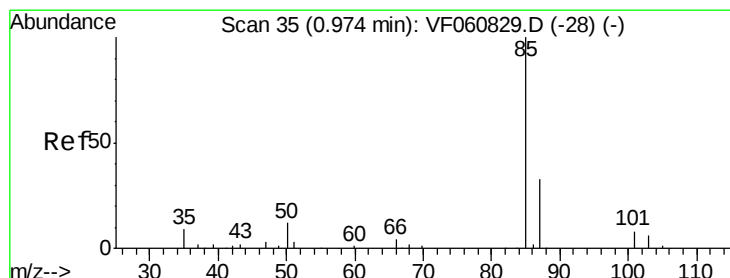
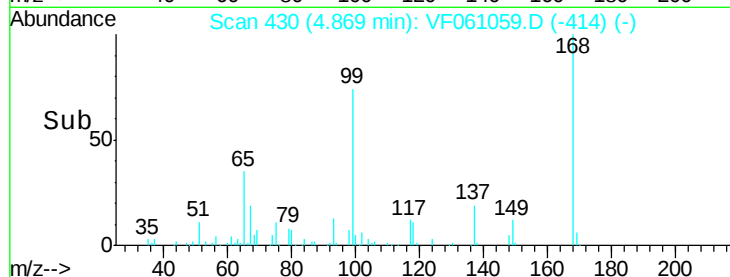
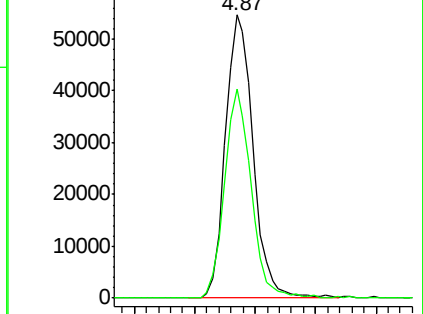
168 100

99 73.8 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 21.808 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF061059.D

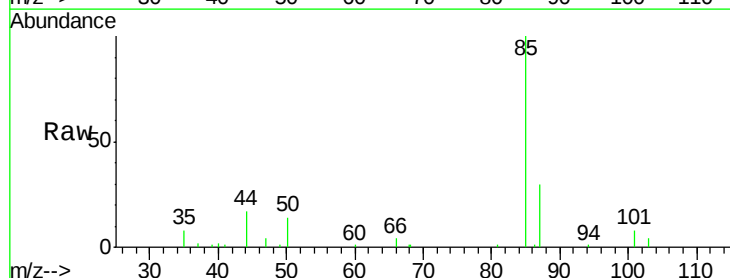
Acq: 18 Dec 2018 13:31

Tgt Ion: 85 Resp: 56530

Ion Ratio Lower Upper

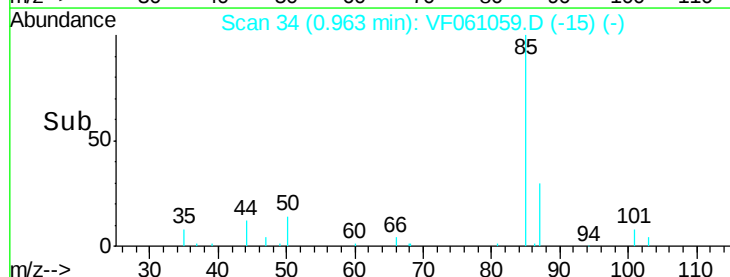
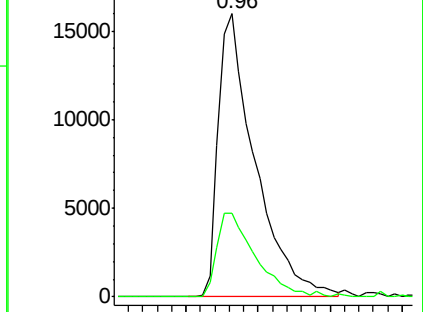
85 100

87 29.8 16.7 50.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 23.413 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

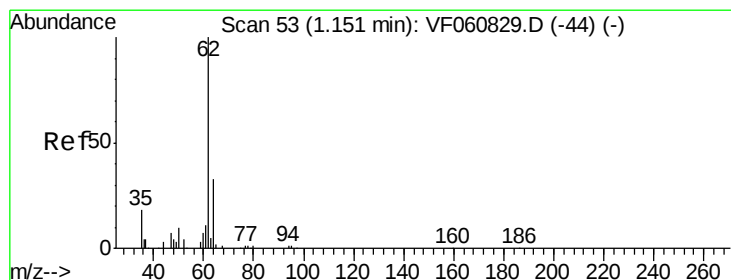
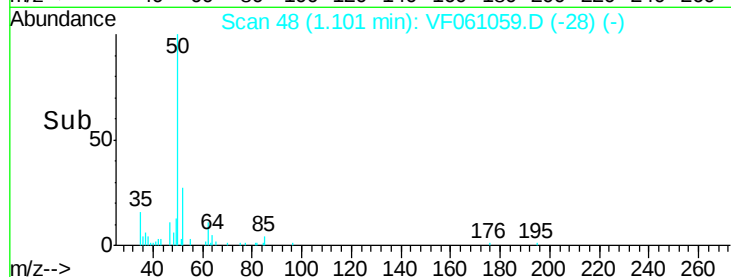
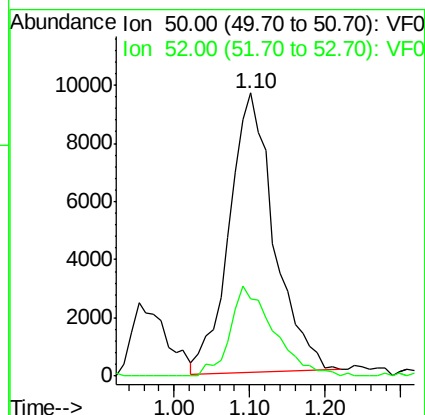
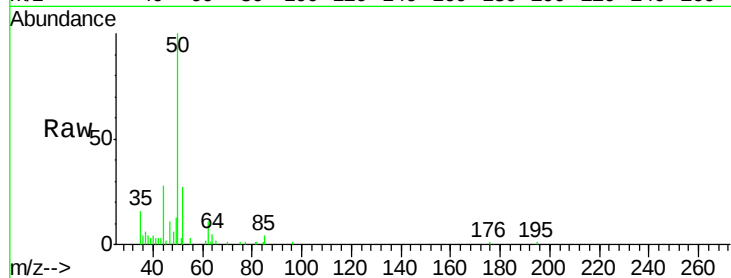
VF1218SBS02

Tgt Ion: 50 Resp: 39493

Ion Ratio Lower Upper

50 100

52 27.2 27.0 40.4



#4

Vinyl Chloride

Concen: 24.968 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF061059.D

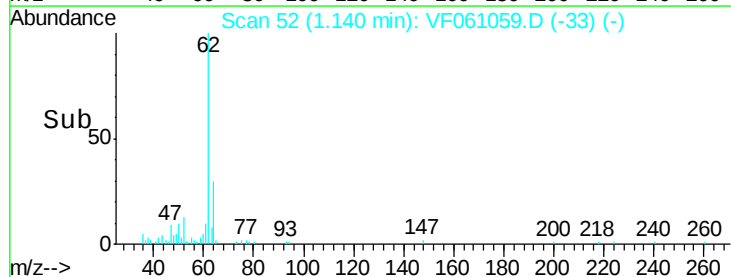
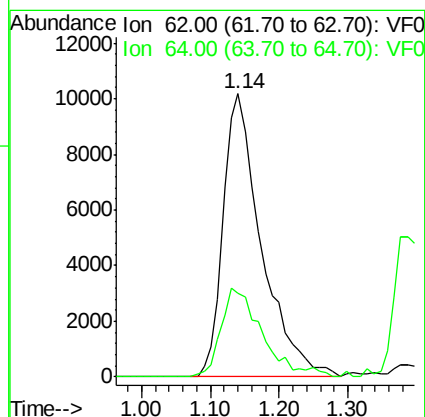
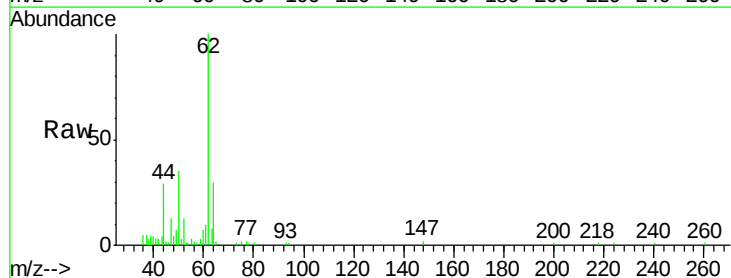
Acq: 18 Dec 2018 13:31

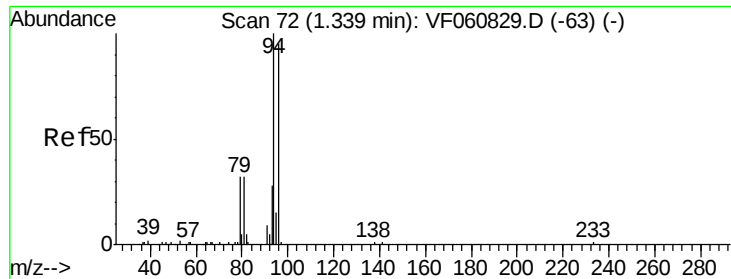
Tgt Ion: 62 Resp: 39285

Ion Ratio Lower Upper

62 100

64 29.6 26.4 39.6





#5

Bromomethane

Concen: 23.864 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

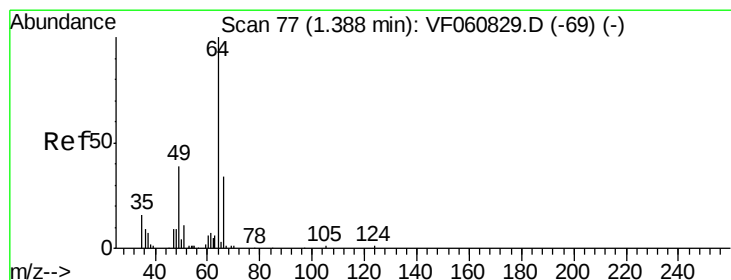
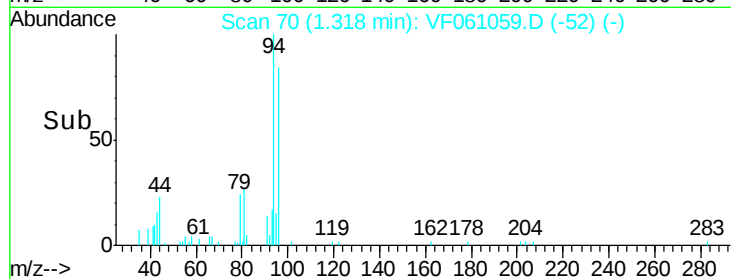
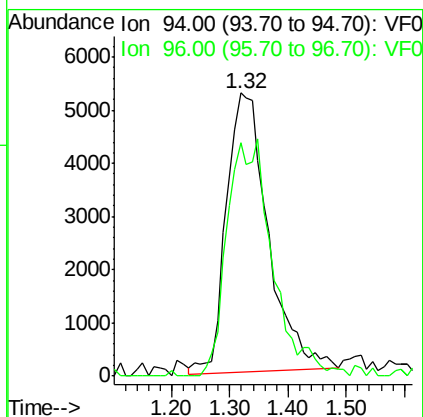
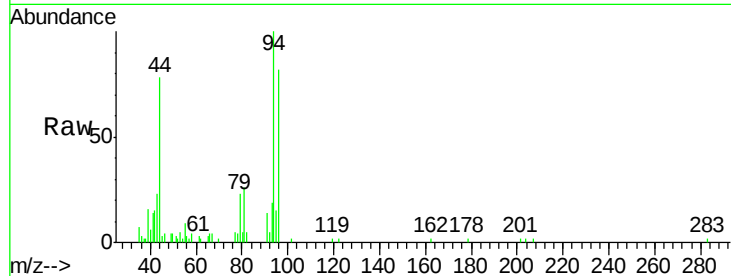
VF1218SBS02

Tgt Ion: 94 Resp: 26476

Ion Ratio Lower Upper

94 100

96 82.3 75.9 113.9



#6

Chloroethane

Concen: 26.208 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061059.D

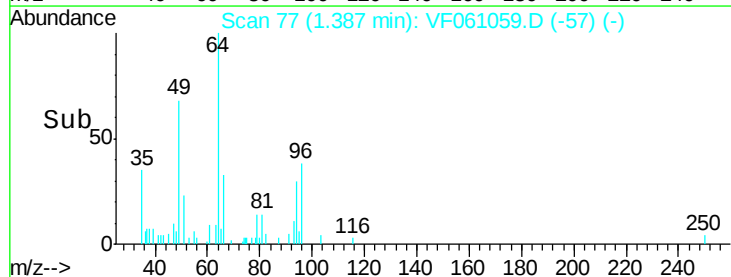
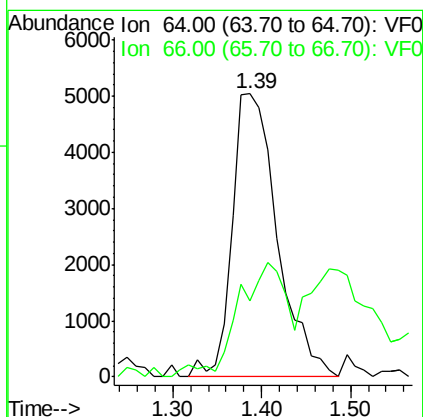
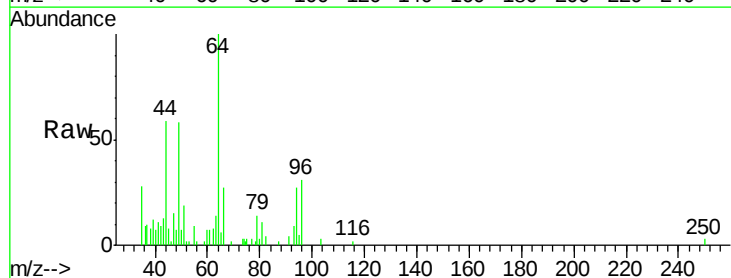
Acq: 18 Dec 2018 13:31

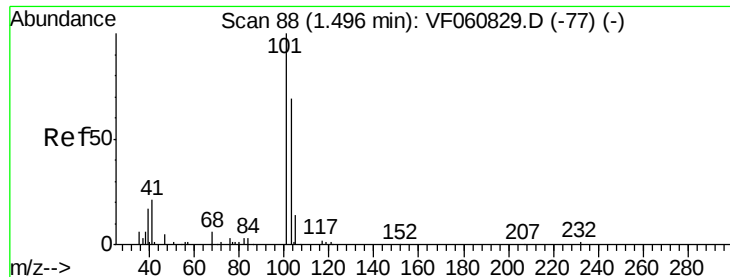
Tgt Ion: 64 Resp: 17825

Ion Ratio Lower Upper

64 100

66 26.8 28.1 42.1#





#7

Trichlorofluoromethane

Concen: 24.250 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

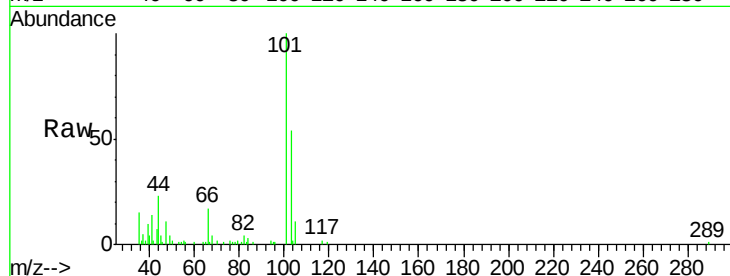
VF1218SBS02

Tgt Ion:101 Resp: 81867

Ion Ratio Lower Upper

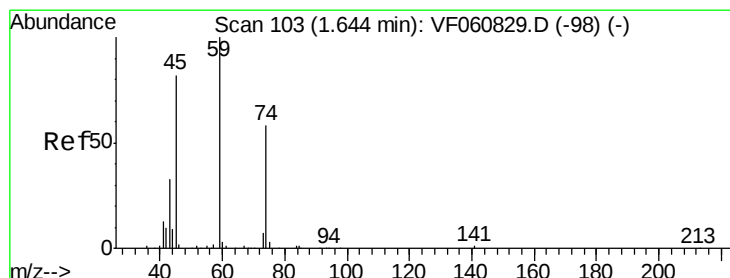
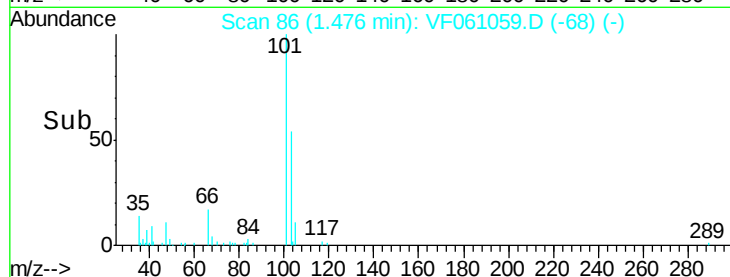
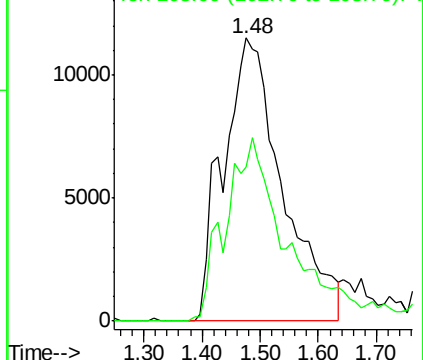
101 100

103 54.3 55.4 83.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 24.672 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF061059.D

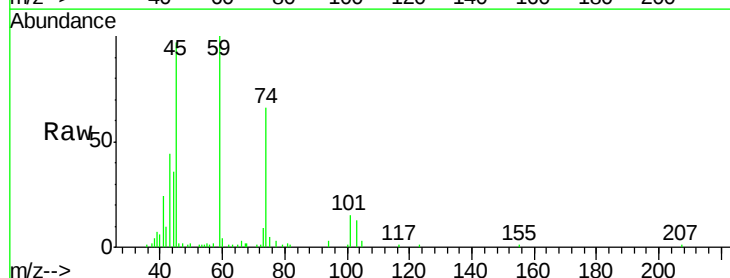
Acq: 18 Dec 2018 13:31

Tgt Ion: 74 Resp: 11977

Ion Ratio Lower Upper

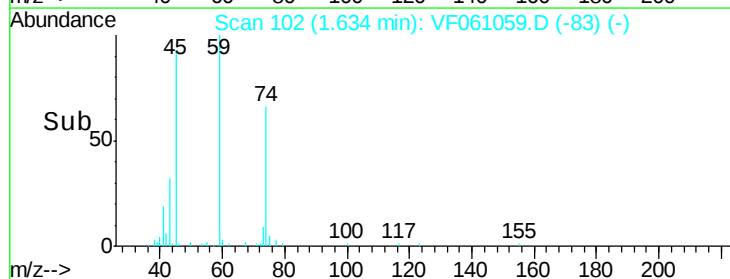
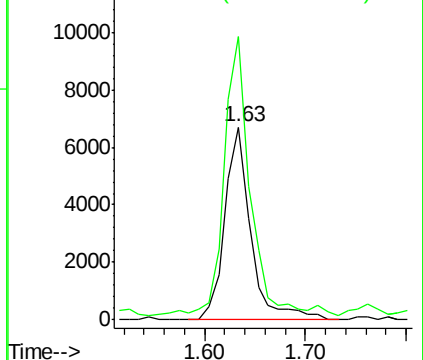
74 100

45 146.6 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.485 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

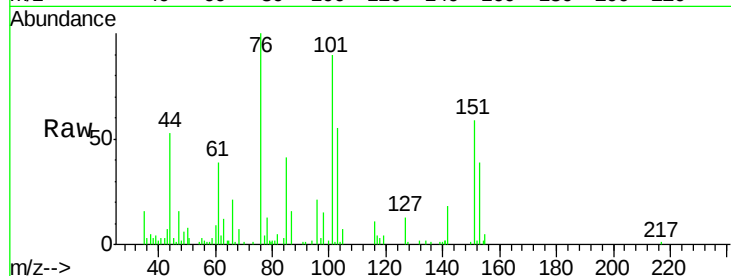
Tgt Ion:101 Resp: 40081

Ion Ratio Lower Upper

101 100

85 45.3 42.8 64.2

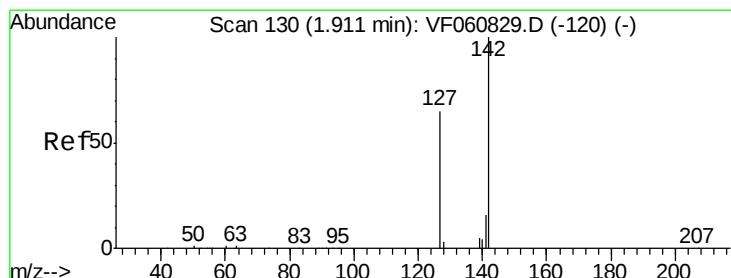
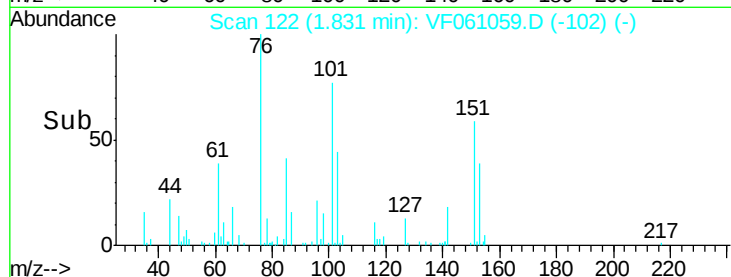
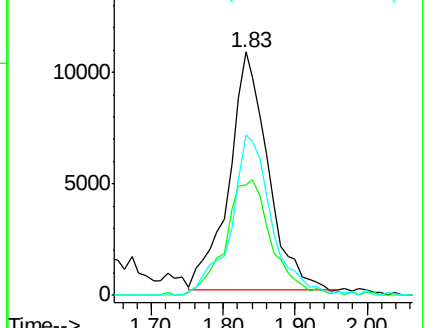
151 66.0 54.4 81.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 24.635 ug/l m

RT: 1.90 min Scan# 129

Delta R.T. -0.01 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

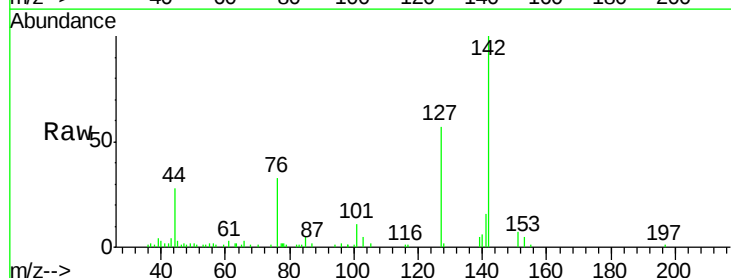
Tgt Ion:142 Resp: 63908

Ion Ratio Lower Upper

142 100

127 57.0 51.9 77.9

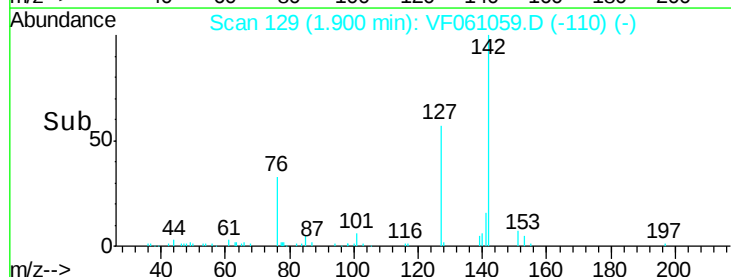
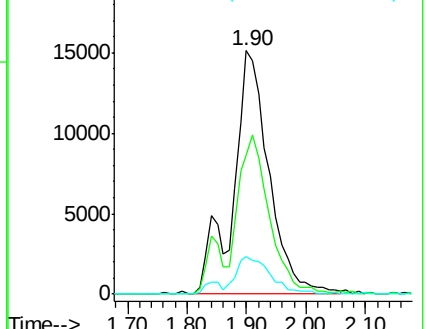
141 15.6 12.7 19.1

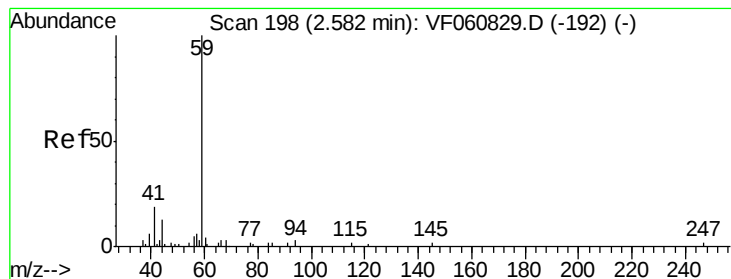


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



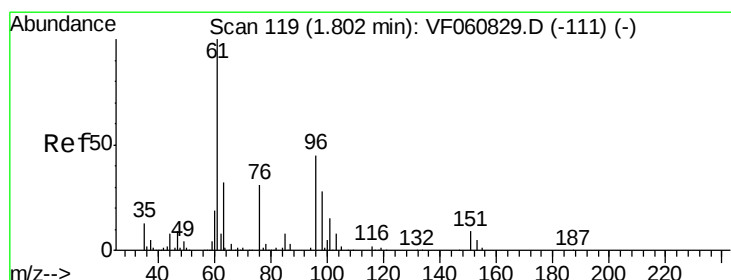
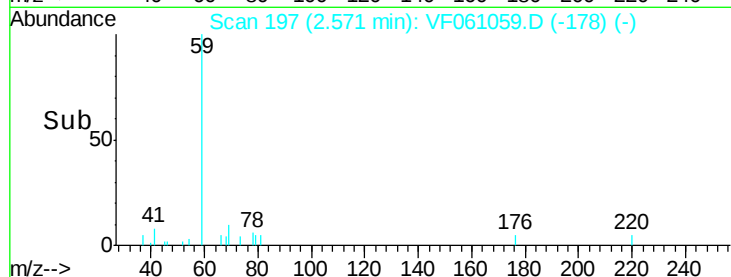
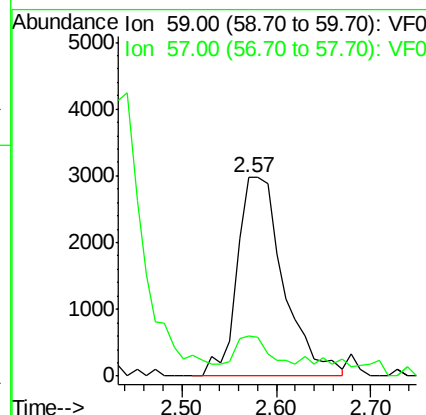
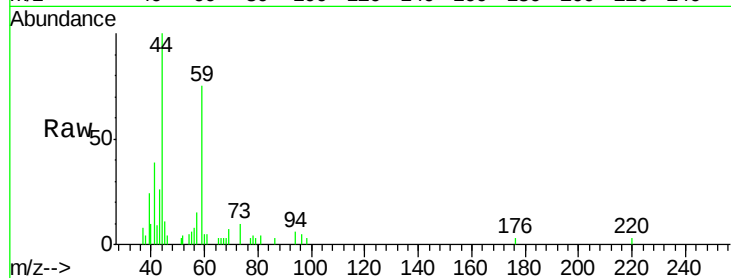


#11

Tert butyl alcohol  
 Concen: 121.356 ug/l  
 RT: 2.57 min Scan# 197  
 Delta R.T. -0.01 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

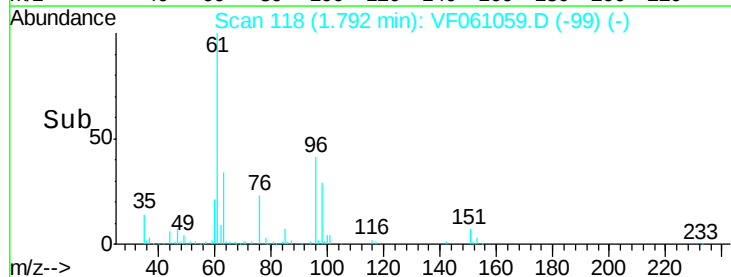
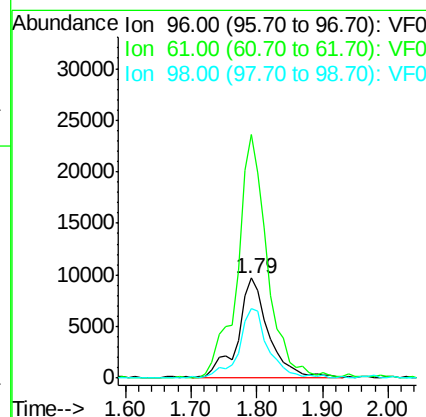
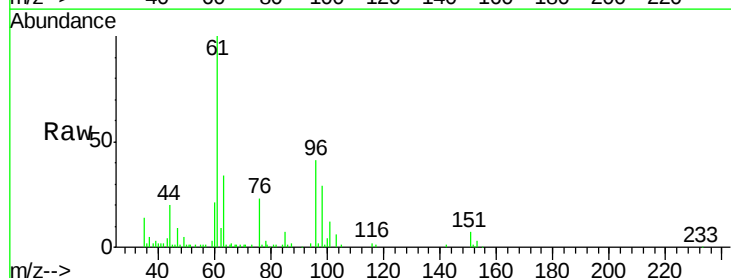
Tgt Ion: 59 Resp: 10160  
 Ion Ratio Lower Upper  
 59 100  
 57 20.3 12.7 19.1#

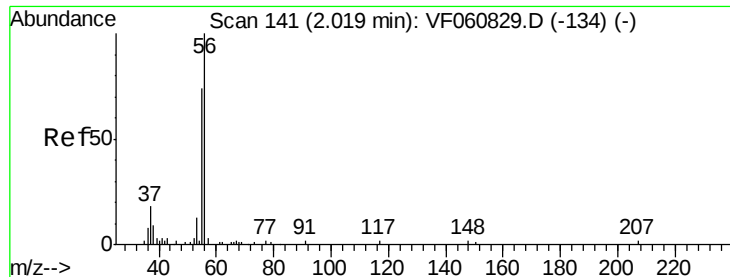


#12

1,1-Dichloroethene  
 Concen: 23.164 ug/l  
 RT: 1.79 min Scan# 118  
 Delta R.T. -0.01 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Tgt Ion: 96 Resp: 31799  
 Ion Ratio Lower Upper  
 96 100  
 61 244.1 177.3 265.9  
 98 69.9 49.6 74.4





#13

Acrolein

Concen: 83.747 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

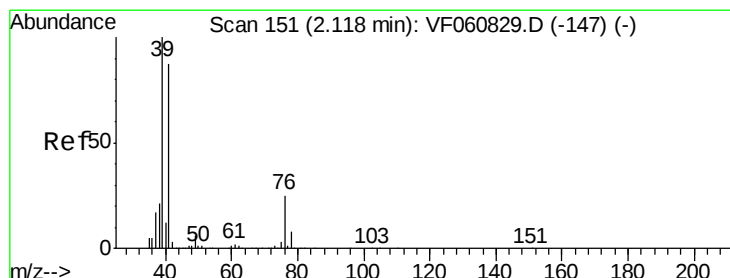
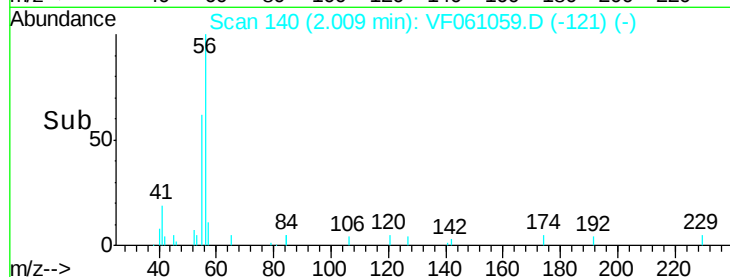
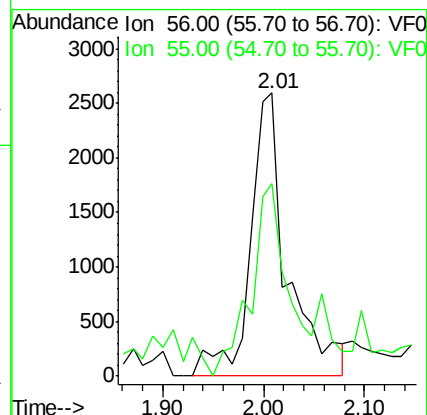
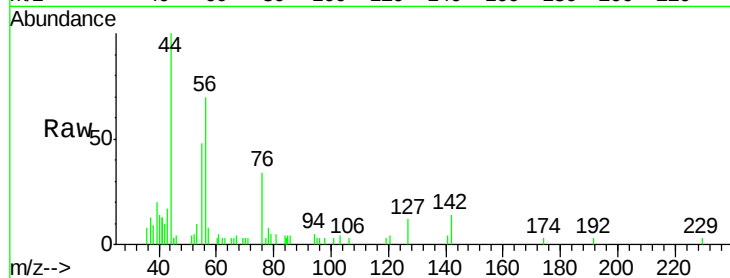
VF1218SBS02

Tgt Ion: 56 Resp: 6643

Ion Ratio Lower Upper

56 100

55 68.2 61.2 91.8



#14

Allyl chloride

Concen: 22.112 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

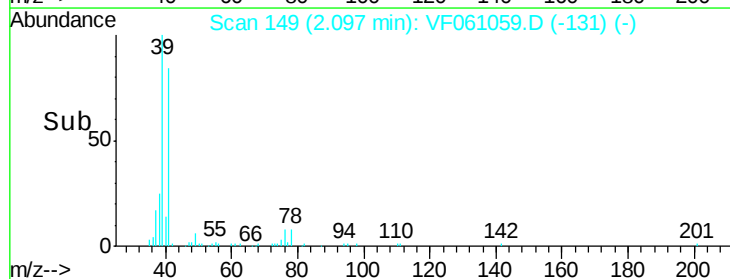
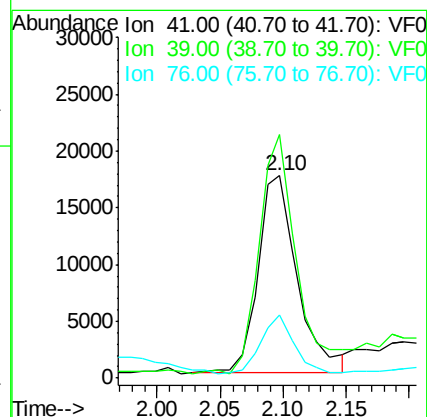
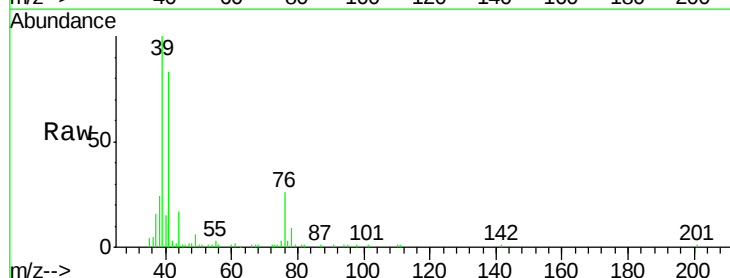
Tgt Ion: 41 Resp: 37834

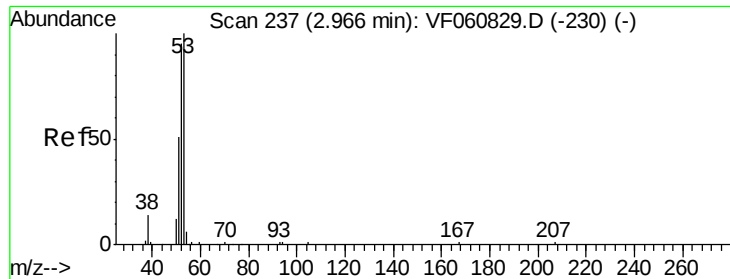
Ion Ratio Lower Upper

41 100

39 120.4 91.7 137.5

76 31.0 23.5 35.3





#15

Acrylonitrile

Concen: 124.399 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

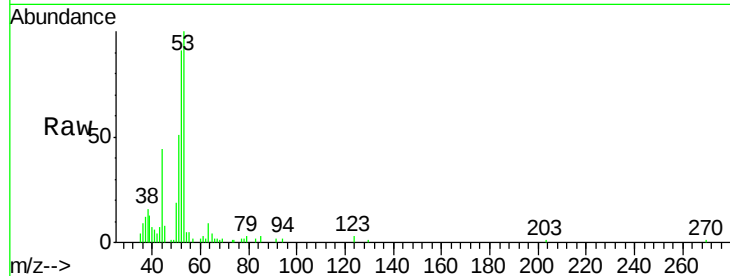
Tgt Ion: 53 Resp: 23349

Ion Ratio Lower Upper

53 100

52 91.1 76.5 114.7

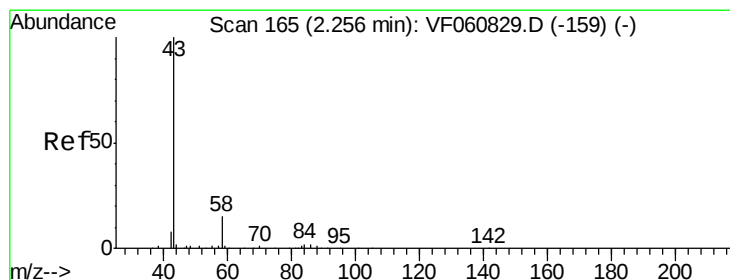
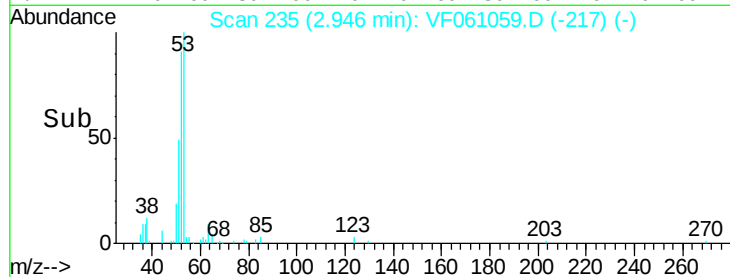
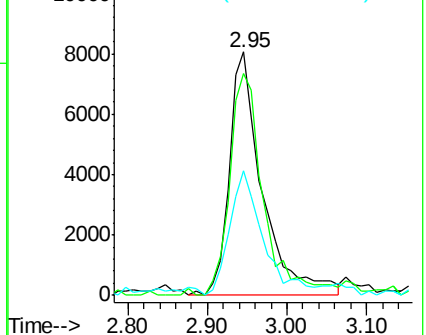
51 51.2 40.7 61.1



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 135.418 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF061059.D

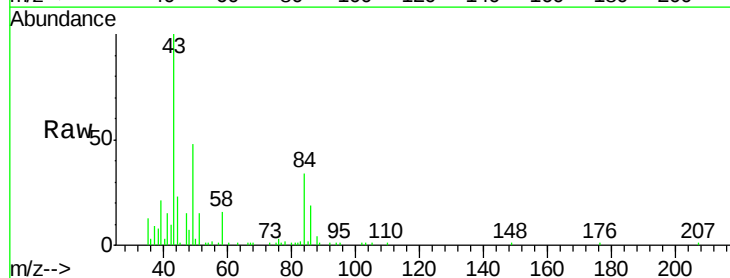
Acq: 18 Dec 2018 13:31

Tgt Ion: 43 Resp: 51001

Ion Ratio Lower Upper

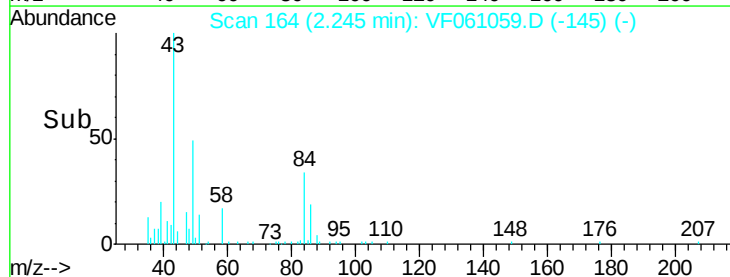
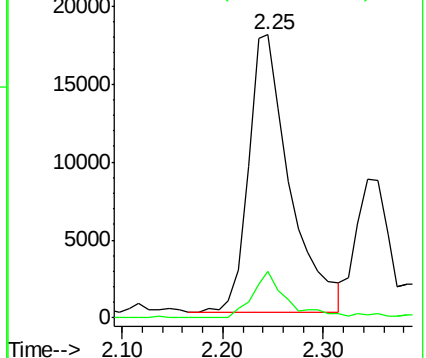
43 100

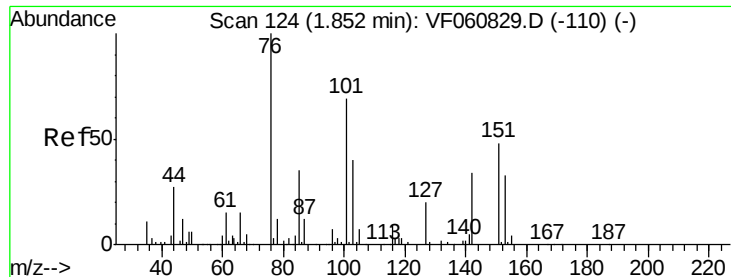
58 16.3 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

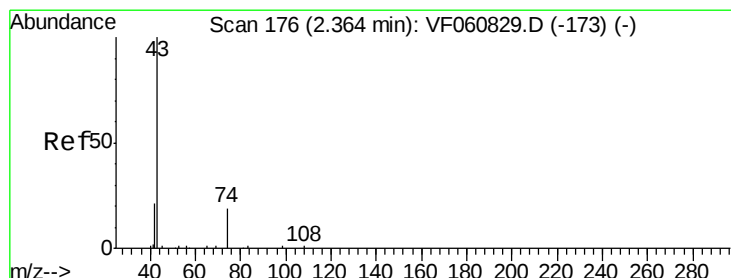
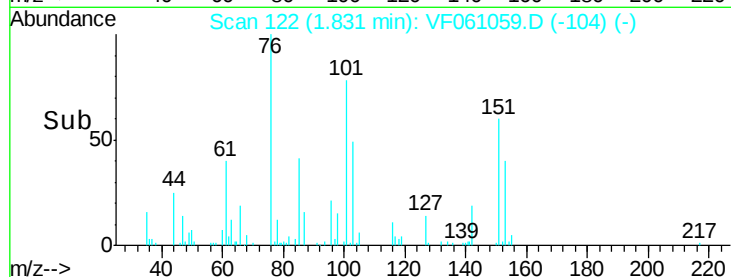
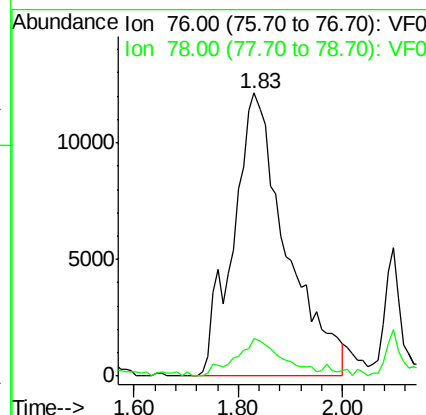
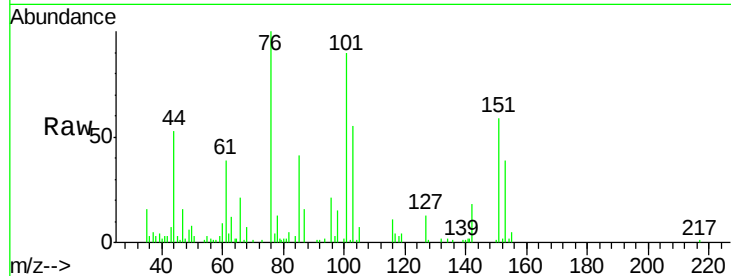




#17  
Carbon Disulfide  
Concen: 22.950 ug/l  
RT: 1.83 min Scan# 122  
Delta R.T. -0.02 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

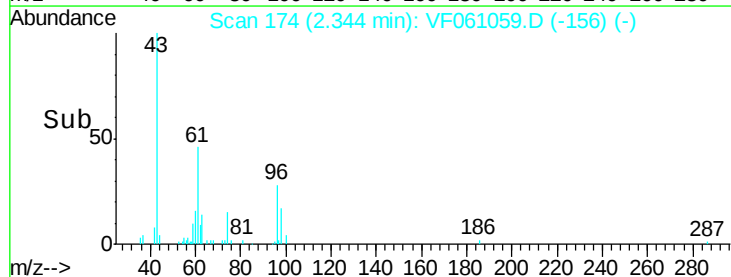
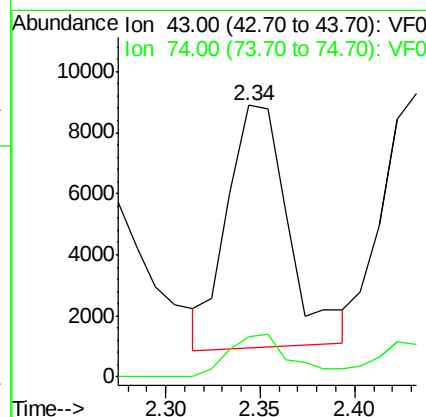
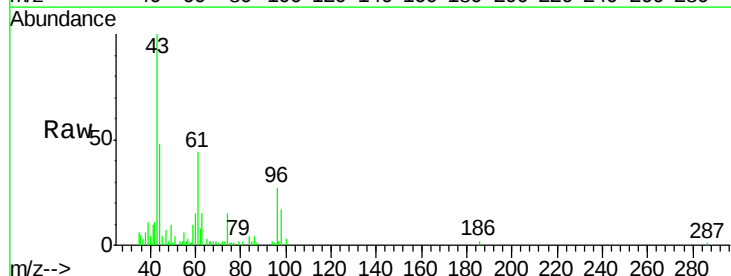
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

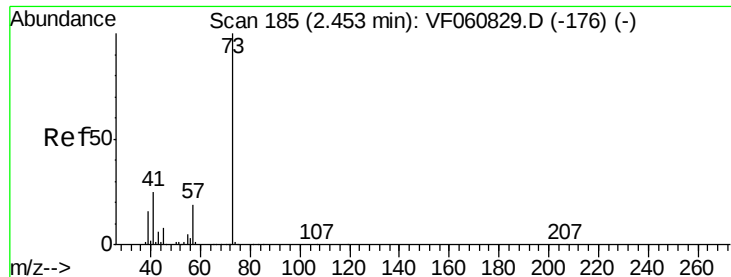
Tgt Ion: 76 Resp: 84471  
Ion Ratio Lower Upper  
76 100  
78 13.1 10.2 15.2



#18  
Methyl Acetate  
Concen: 27.604 ug/l  
RT: 2.34 min Scan# 174  
Delta R.T. -0.02 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion: 43 Resp: 17909  
Ion Ratio Lower Upper  
43 100  
74 14.8 13.3 19.9

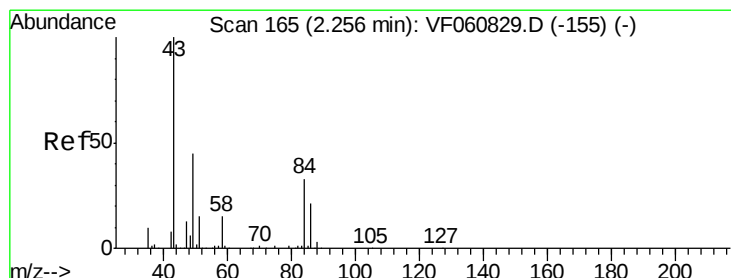
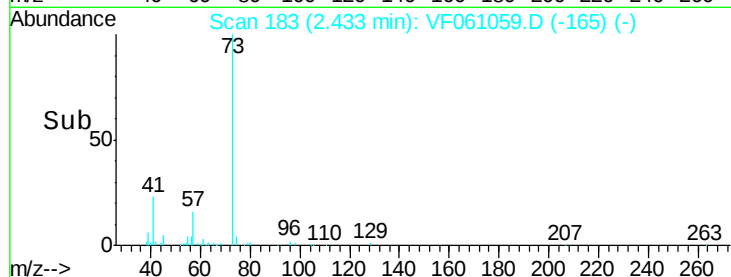
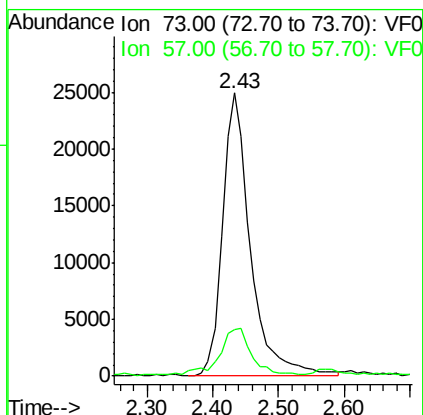
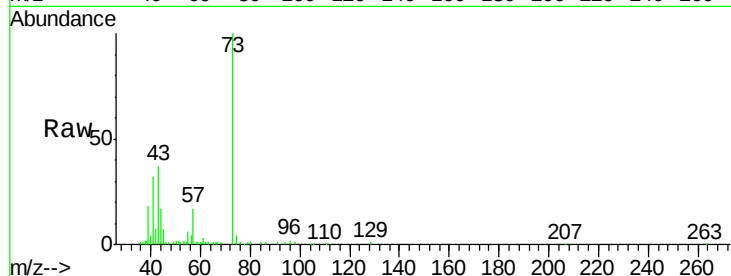




#19  
Methyl tert-butyl Ether  
Concen: 23.921 ug/l  
RT: 2.43 min Scan# 183  
Delta R.T. -0.02 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

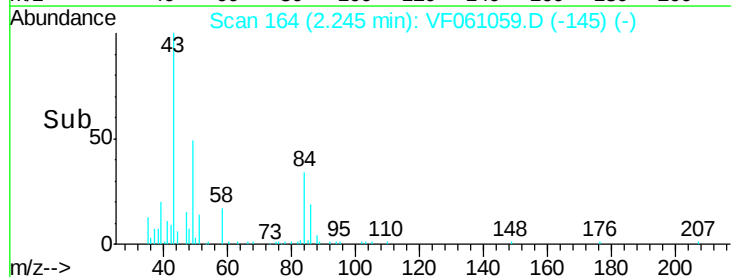
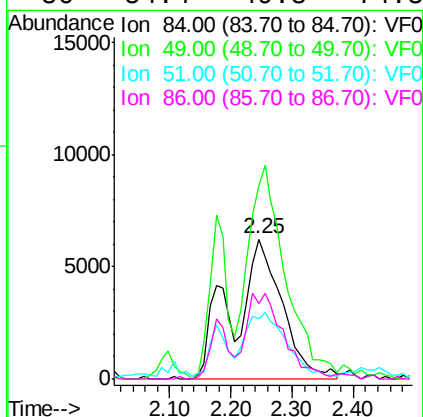
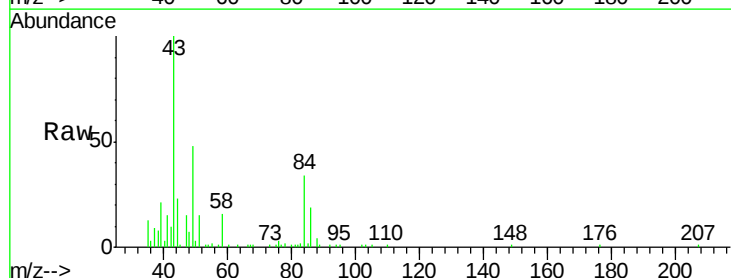
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

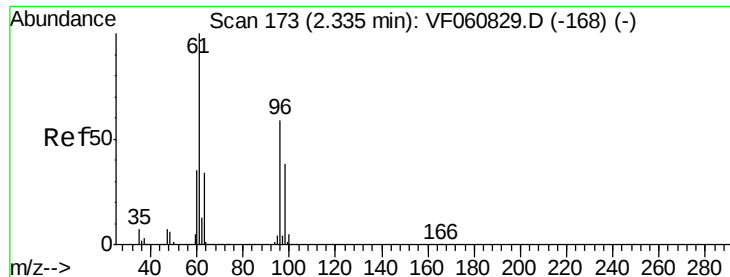
Tgt Ion: 73 Resp: 73958  
Ion Ratio Lower Upper  
73 100  
57 16.6 15.3 22.9



#20  
Methylene Chloride  
Concen: 25.082 ug/l m  
RT: 2.25 min Scan# 164  
Delta R.T. -0.01 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion: 84 Resp: 34655  
Ion Ratio Lower Upper  
84 100  
49 138.6 111.3 166.9  
51 43.1 38.0 57.0  
86 54.4 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 18.492 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

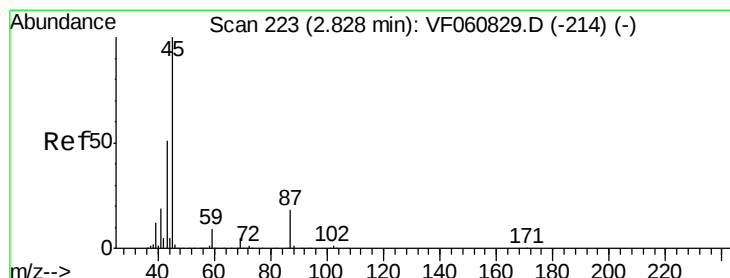
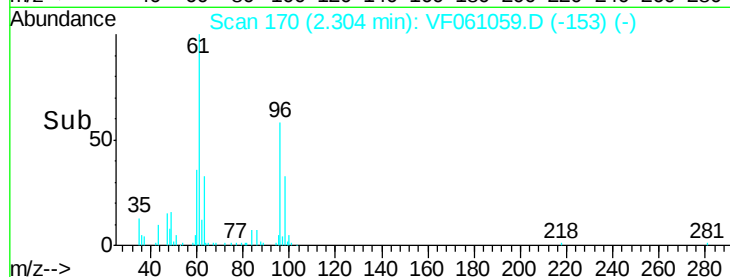
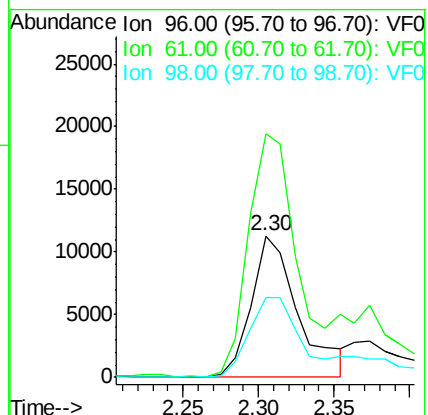
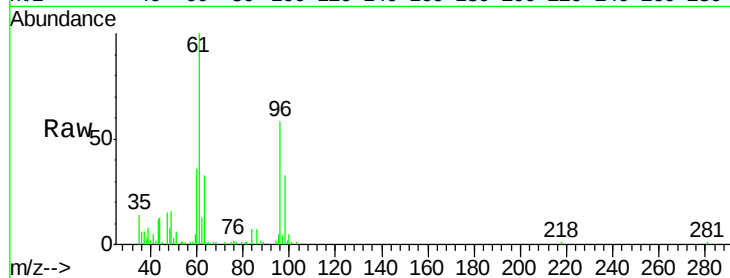
Tgt Ion: 96 Resp: 24473

Ion Ratio Lower Upper

96 100

61 172.0 134.5 201.7

98 56.4 51.6 77.4



#22

Diisopropyl ether

Concen: 25.076 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Tgt Ion: 45 Resp: 116789

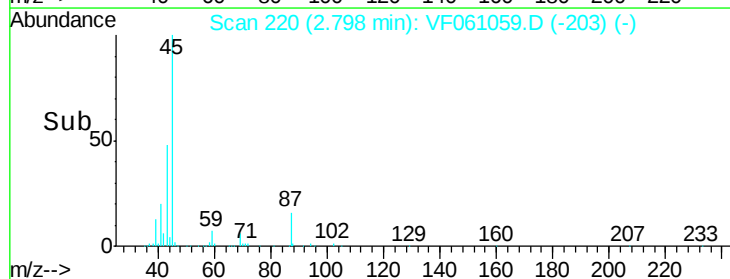
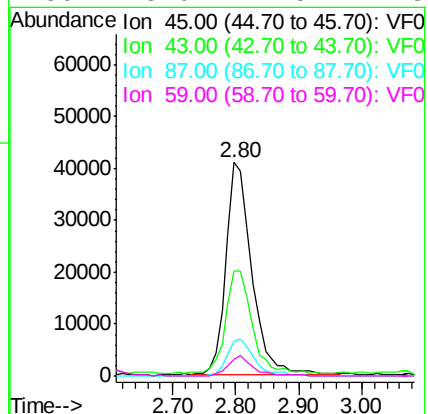
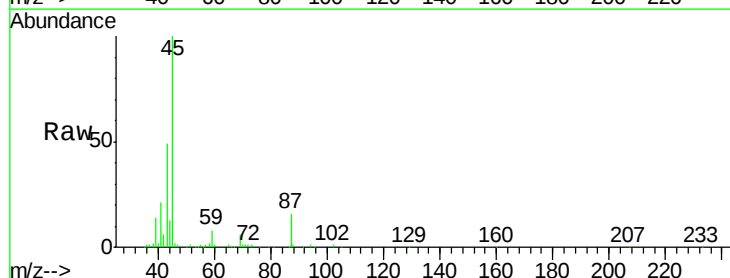
Ion Ratio Lower Upper

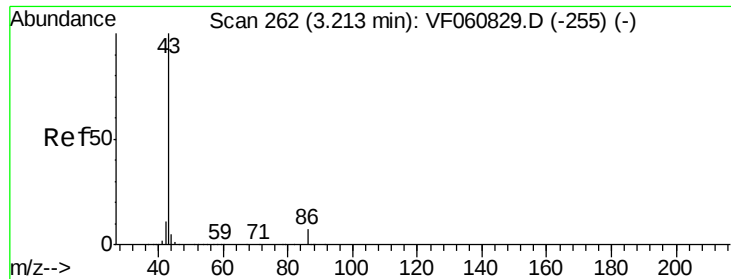
45 100

43 49.3 41.0 61.6

87 15.9 14.6 22.0

59 8.0 7.5 11.3

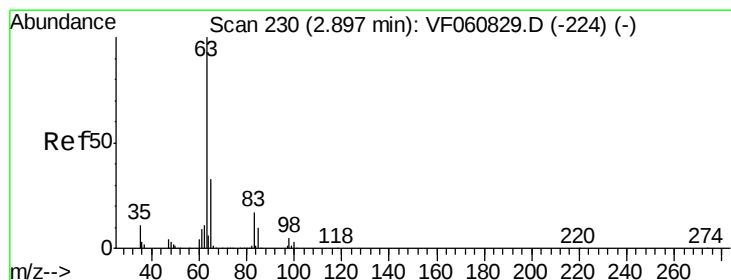
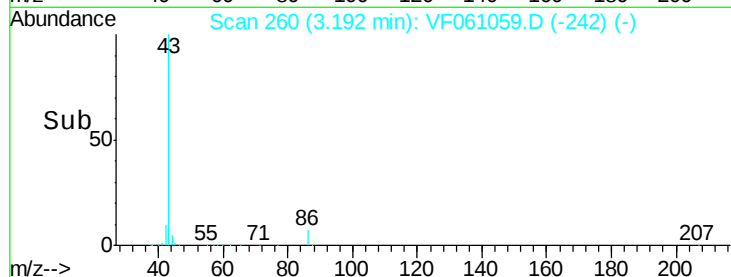
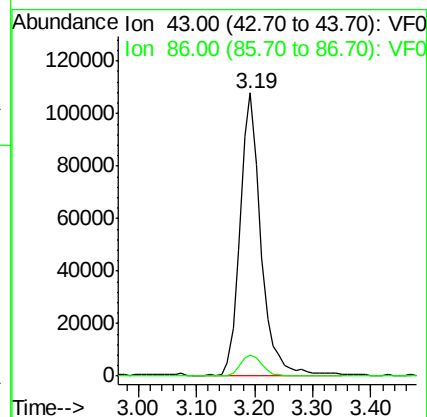
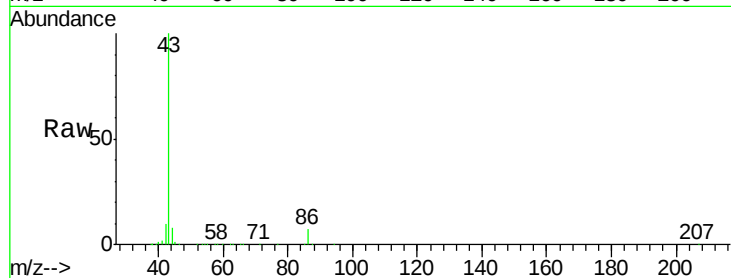




#23  
 Vinyl Acetate  
 Concen: 125.506 ug/l  
 RT: 3.19 min Scan# 260  
 Delta R.T. -0.02 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

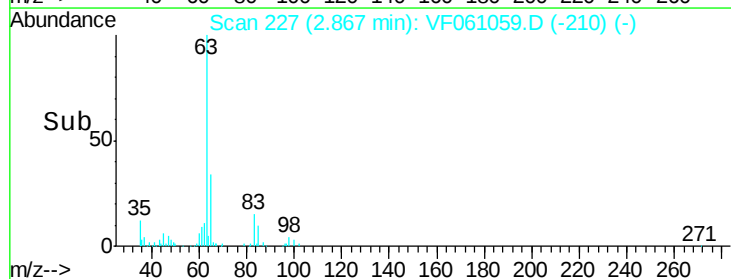
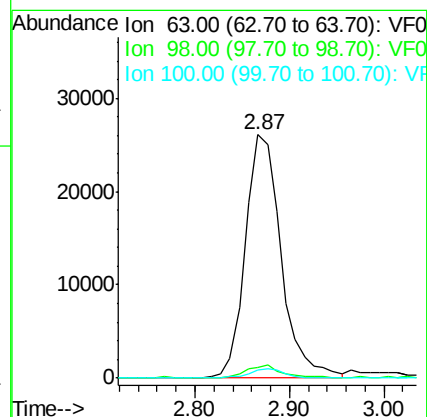
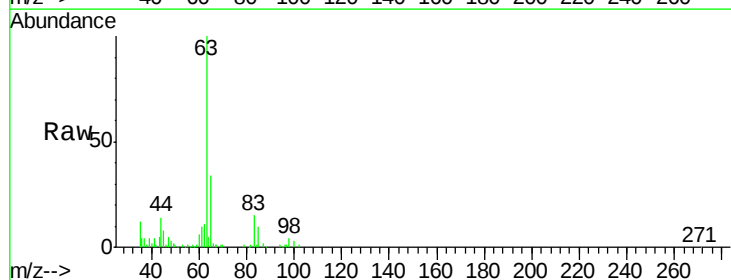
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

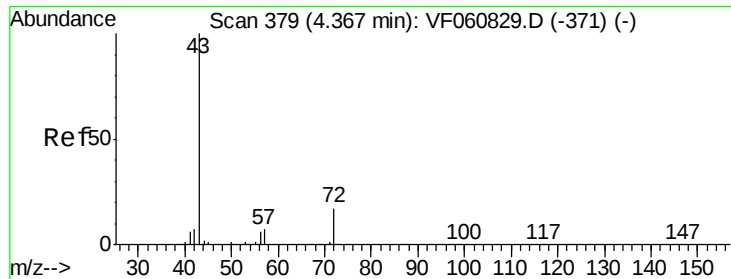
Tgt Ion: 43 Resp: 267191  
 Ion Ratio Lower Upper  
 43 100  
 86 7.3 5.4 8.0



#24  
 1,1-Dichloroethane  
 Concen: 24.793 ug/l  
 RT: 2.87 min Scan# 227  
 Delta R.T. -0.03 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Tgt Ion: 63 Resp: 68701  
 Ion Ratio Lower Upper  
 63 100  
 98 4.1 2.7 8.1  
 100 3.4 1.5 4.5





#25

2-Butanone

Concen: 129.517 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

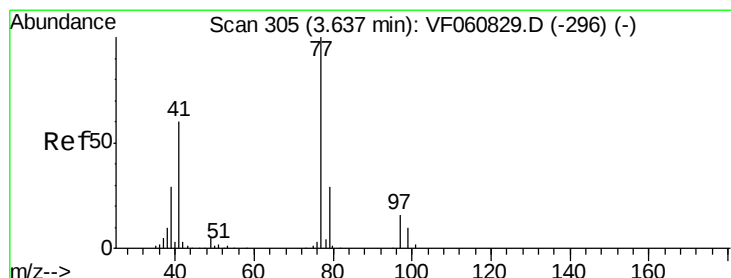
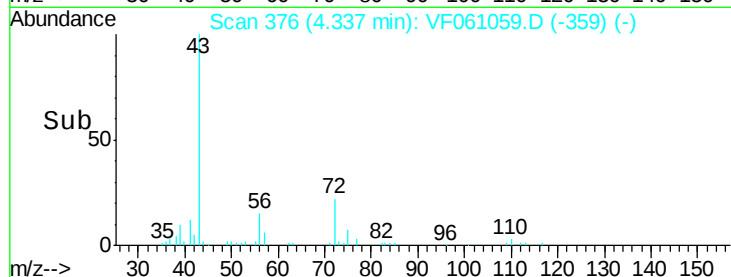
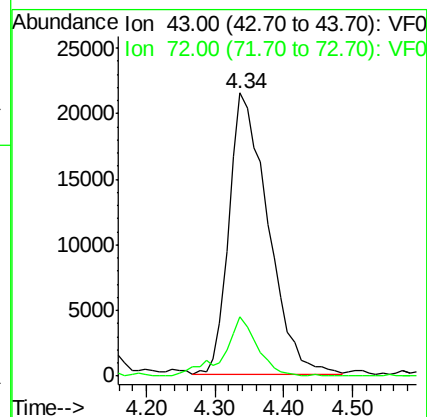
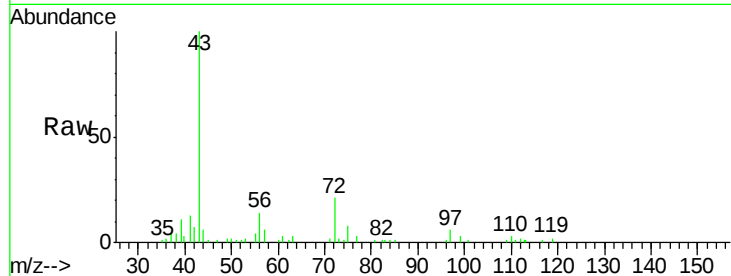
VF1218SBS02

Tgt Ion: 43 Resp: 84370

Ion Ratio Lower Upper

43 100

72 20.8 15.4 23.2



#26

2,2-Dichloropropane

Concen: 22.827 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.04 min

Lab File: VF061059.D

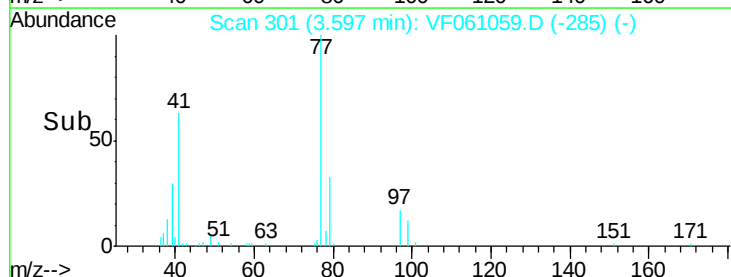
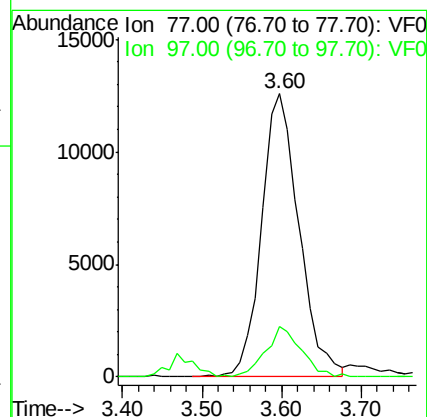
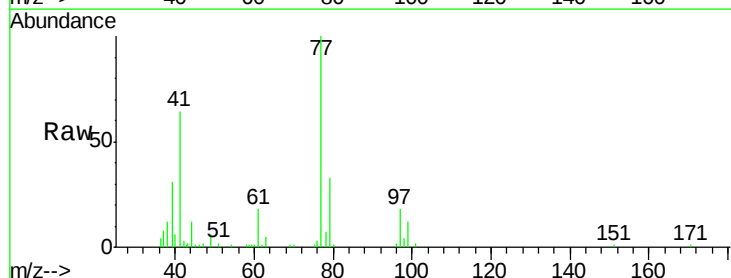
Acq: 18 Dec 2018 13:31

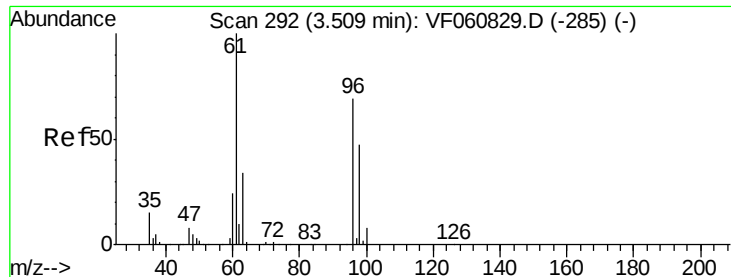
Tgt Ion: 77 Resp: 41007

Ion Ratio Lower Upper

77 100

97 17.8 8.6 25.8



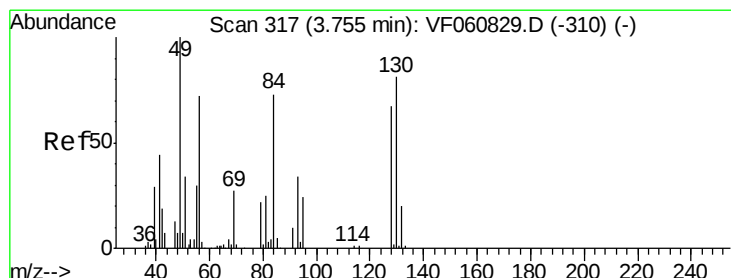
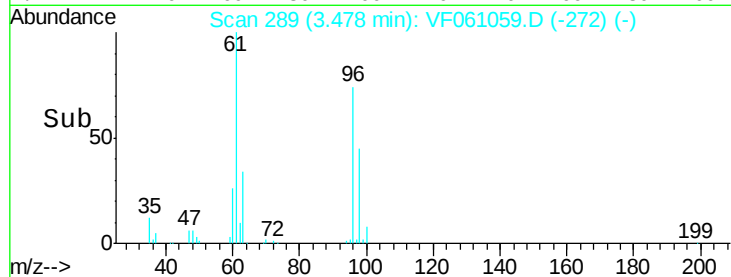
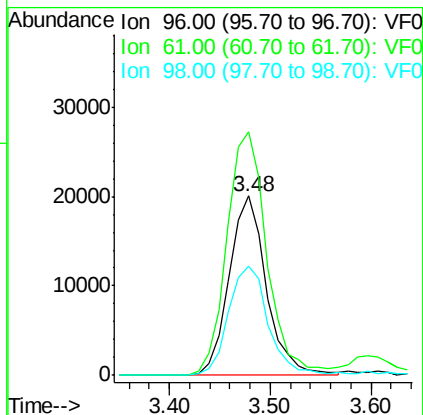
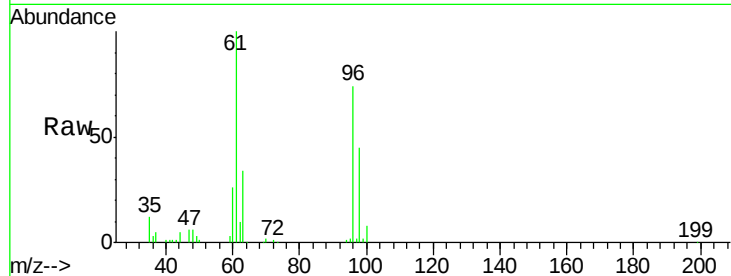


#27

cis-1,2-Dichloroethene  
 Concen: 23.972 ug/l  
 RT: 3.48 min Scan# 289  
 Delta R.T. -0.03 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

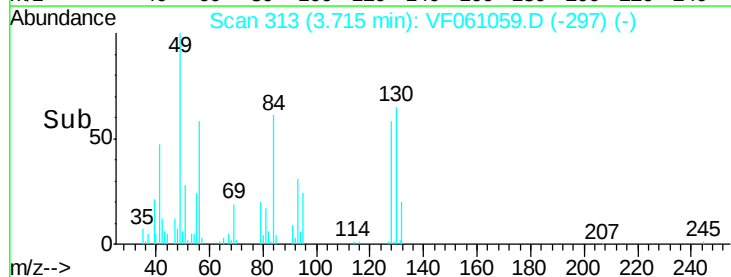
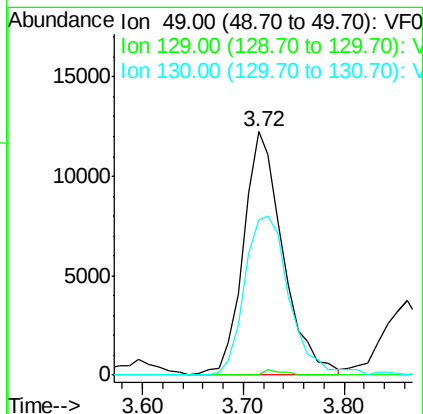
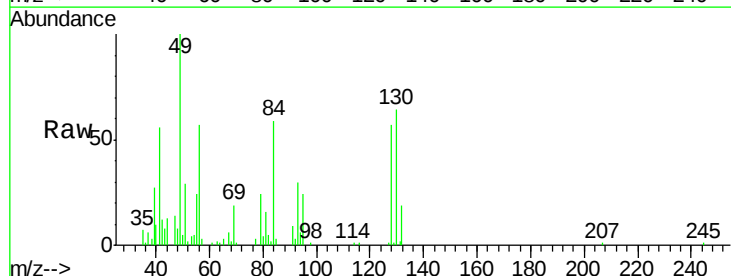
Tgt Ion: 96 Resp: 51649  
 Ion Ratio Lower Upper  
 96 100  
 61 135.8 0.0 290.6  
 98 60.7 0.0 137.8

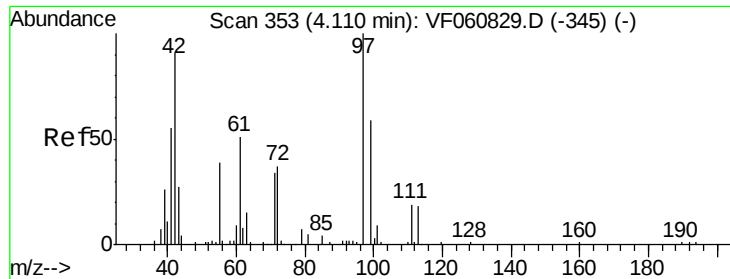


#28

Bromochloromethane  
 Concen: 25.206 ug/l  
 RT: 3.72 min Scan# 313  
 Delta R.T. -0.04 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Tgt Ion: 49 Resp: 33520  
 Ion Ratio Lower Upper  
 49 100  
 129 0.0 0.0 4.4  
 130 63.6 64.2 96.4#

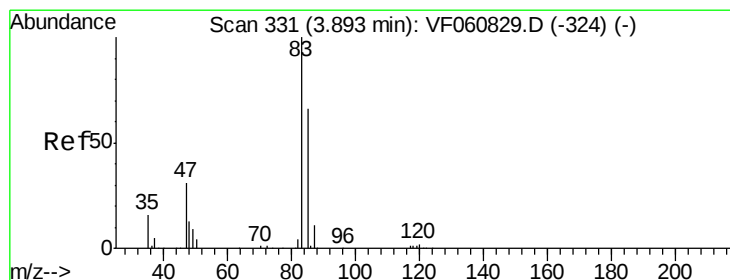
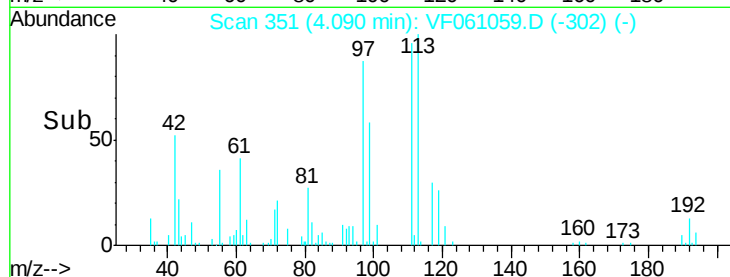
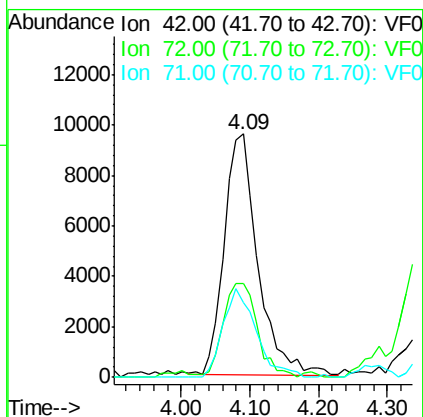
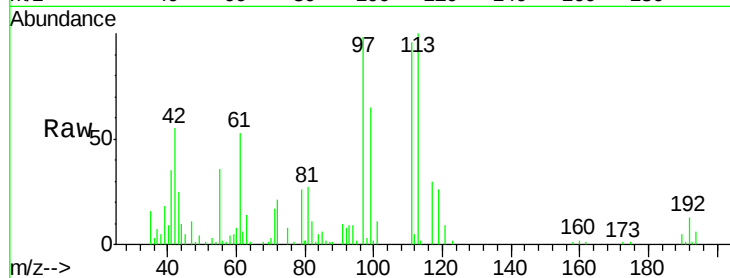




#29  
Tetrahydrofuran  
Concen: 116.844 ug/l  
RT: 4.09 min Scan# 351  
Delta R.T. -0.02 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

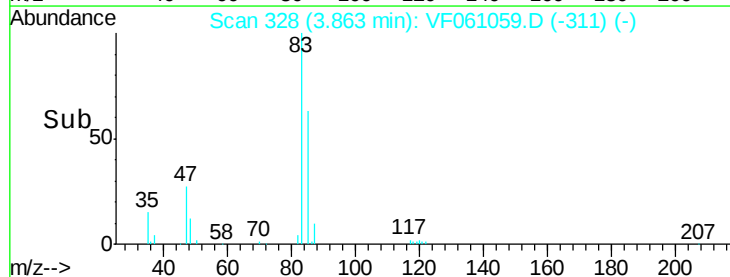
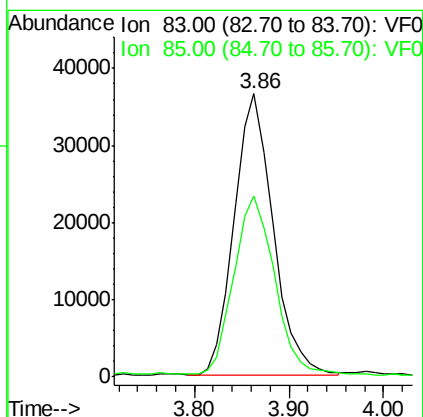
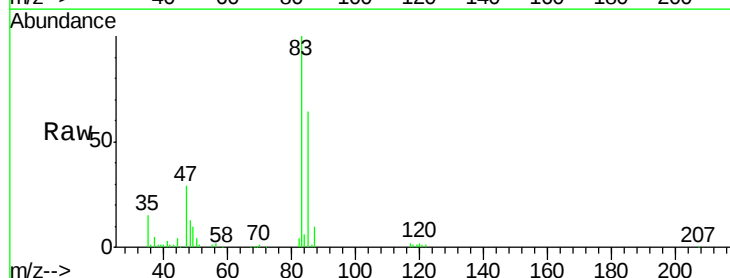
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

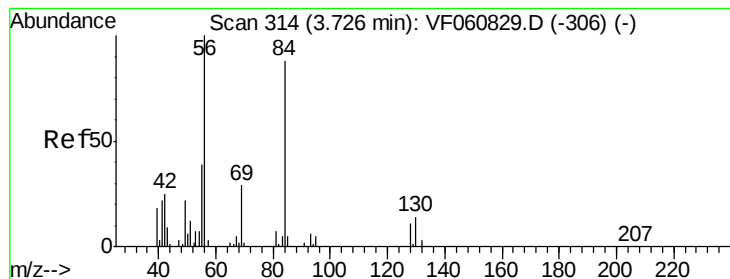
Tgt Ion: 42 Resp: 32264  
Ion Ratio Lower Upper  
42 100  
72 40.0 31.9 47.9  
71 36.1 28.7 43.1



#30  
Chloroform  
Concen: 24.623 ug/l  
RT: 3.86 min Scan# 328  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion: 83 Resp: 105008  
Ion Ratio Lower Upper  
83 100  
85 64.0 53.4 80.2





#31

Cyclohexane

Concen: 23.909 ug/l m

RT: 3.69 min Scan# 310

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

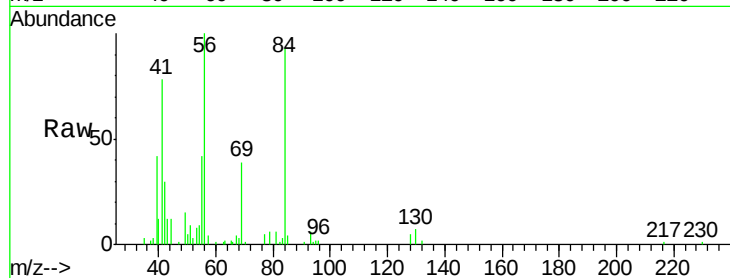
Tgt Ion: 56 Resp: 68756

Ion Ratio Lower Upper

56 100

69 38.8 23.0 34.4#

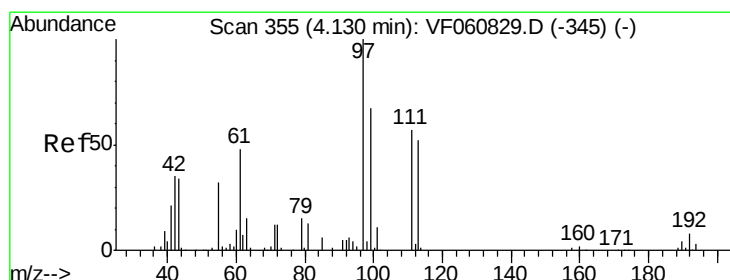
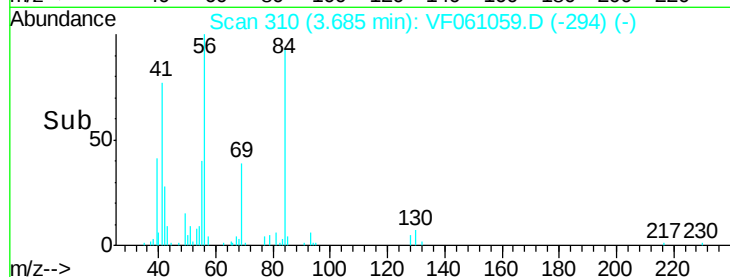
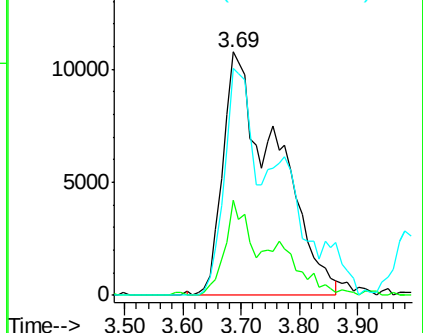
84 93.5 70.4 105.6



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 21.699 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

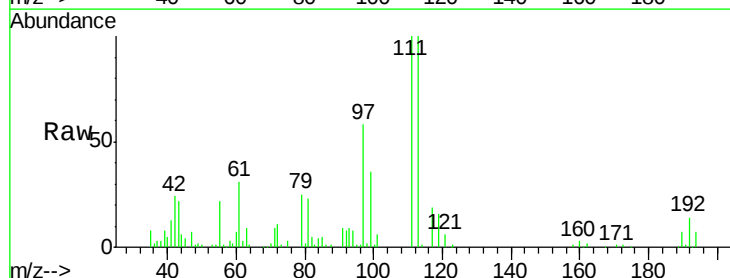
Tgt Ion: 97 Resp: 64178

Ion Ratio Lower Upper

97 100

99 61.3 53.5 80.3

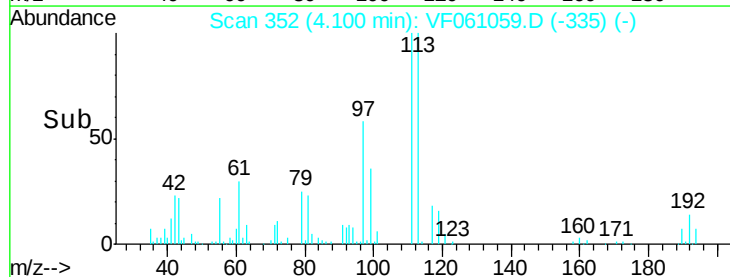
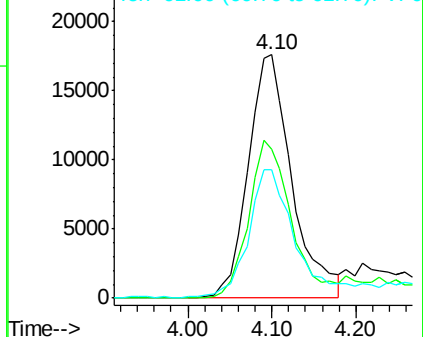
61 52.6 38.6 58.0

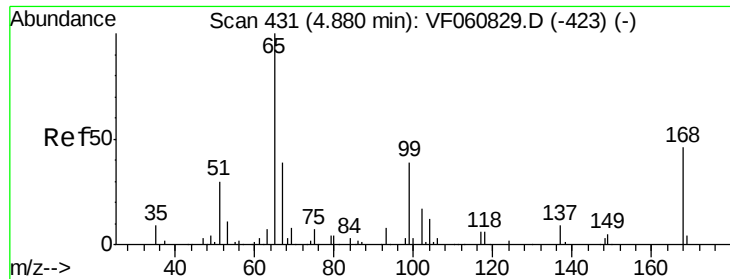


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 58.543 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

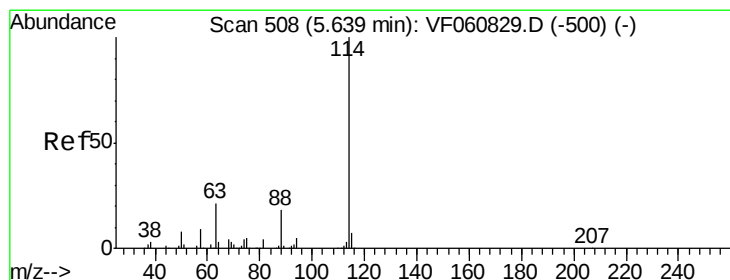
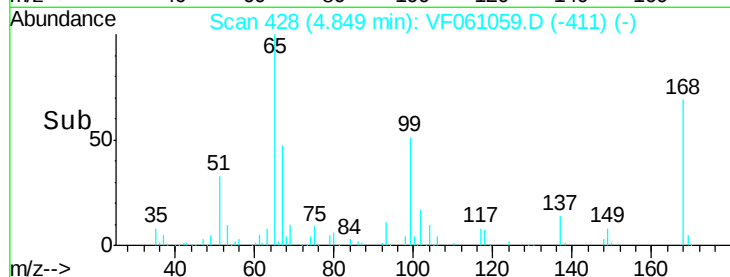
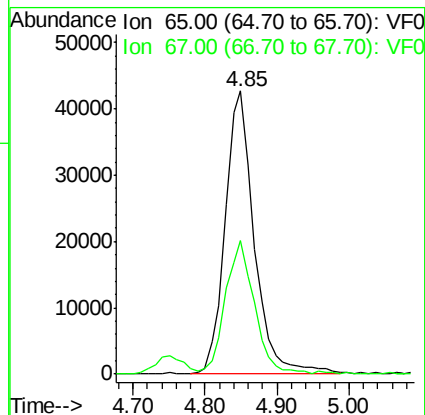
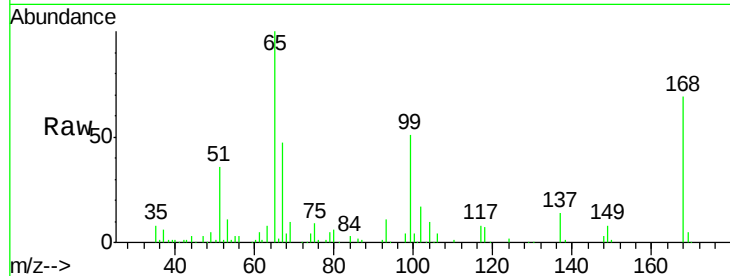
VF1218SBS02

Tgt Ion: 65 Resp: 119565

Ion Ratio Lower Upper

65 100

67 47.3 0.0 96.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

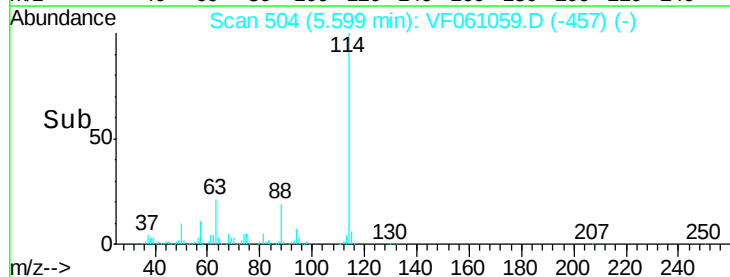
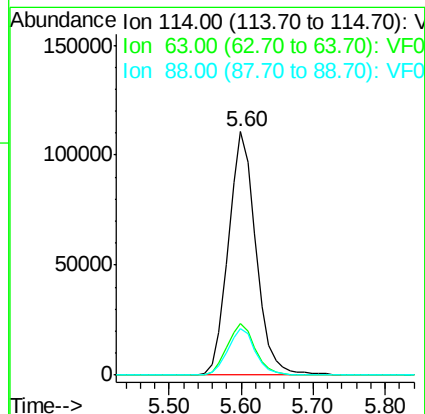
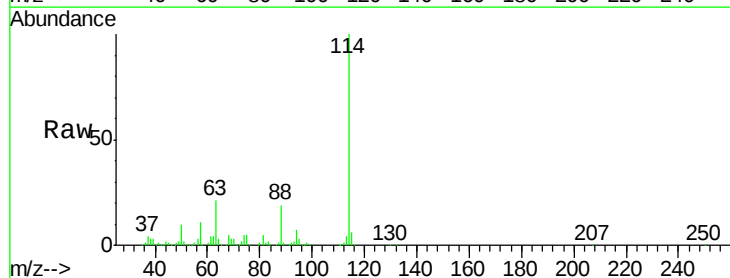
Tgt Ion: 114 Resp: 294312

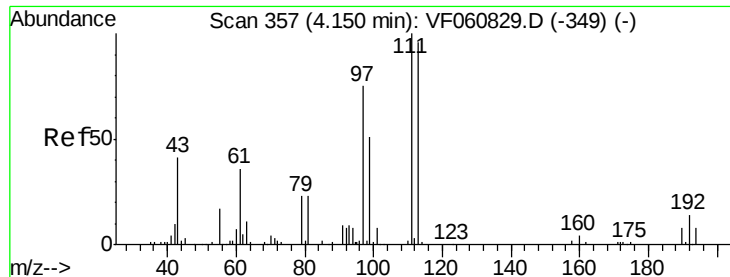
Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.6

88 19.0 0.0 36.6

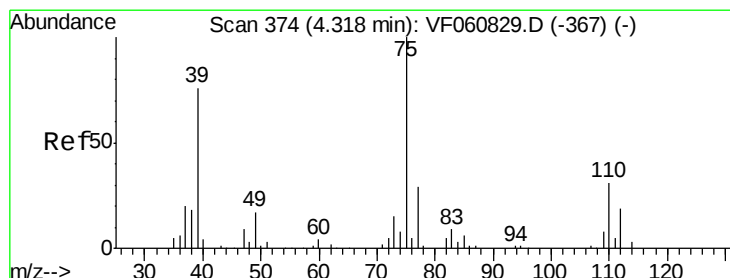
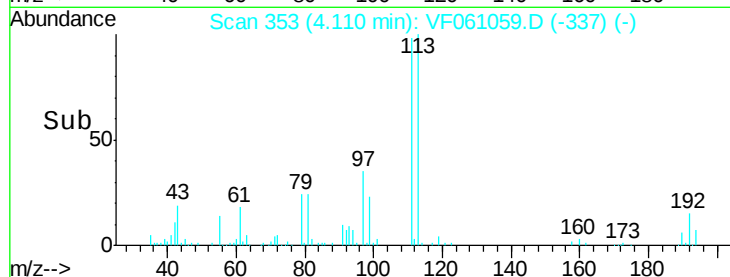
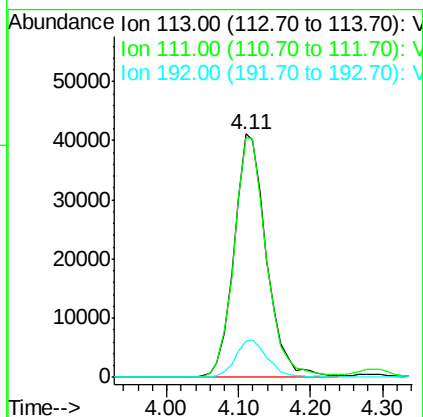
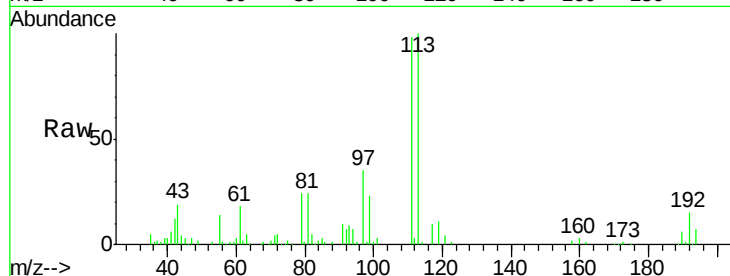




#35  
 Dibromofluoromethane  
 Concen: 55.023 ug/l  
 RT: 4.11 min Scan# 353  
 Delta R.T. -0.04 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

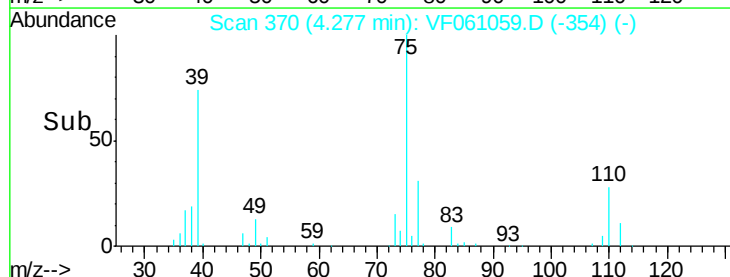
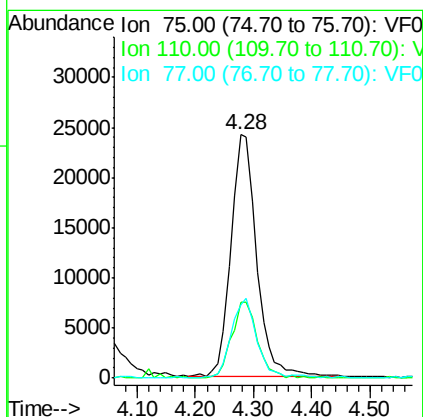
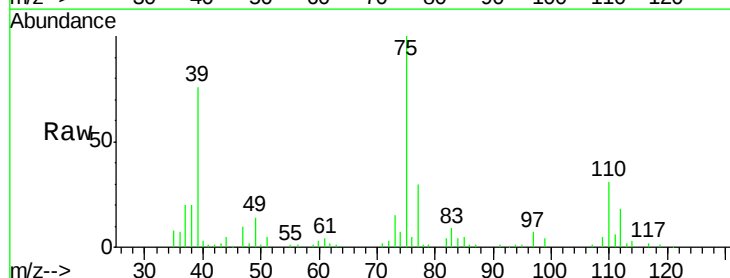
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

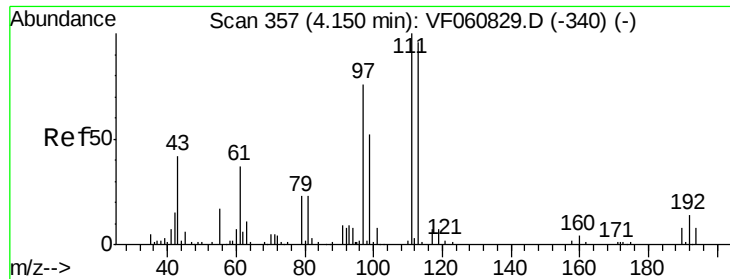
Tgt Ion: 113 Resp: 128471  
 Ion Ratio Lower Upper  
 113 100  
 111 98.4 83.0 124.6  
 192 14.7 12.3 18.5



#36  
 1,1-Dichloropropene  
 Concen: 23.064 ug/l  
 RT: 4.28 min Scan# 370  
 Delta R.T. -0.04 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Tgt Ion: 75 Resp: 75290  
 Ion Ratio Lower Upper  
 75 100  
 110 31.3 15.6 46.8  
 77 30.2 23.4 35.0

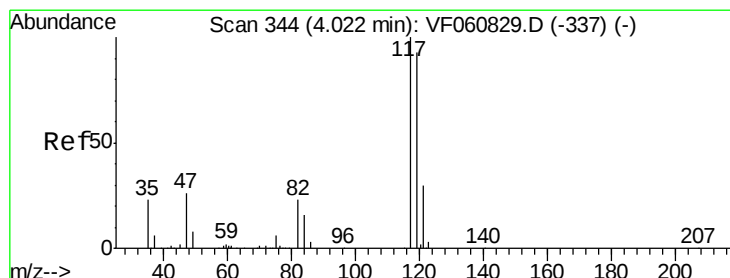
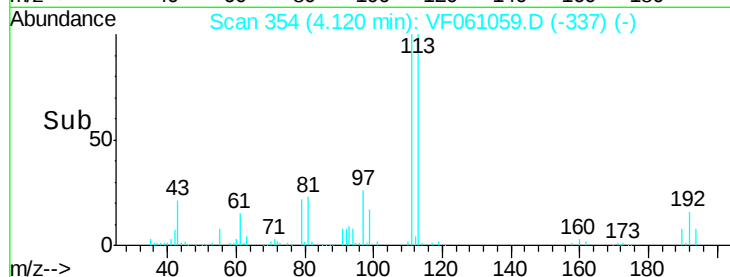
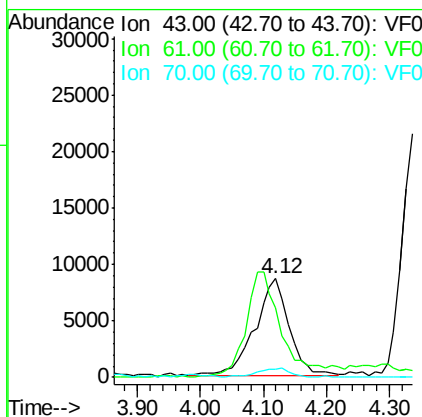
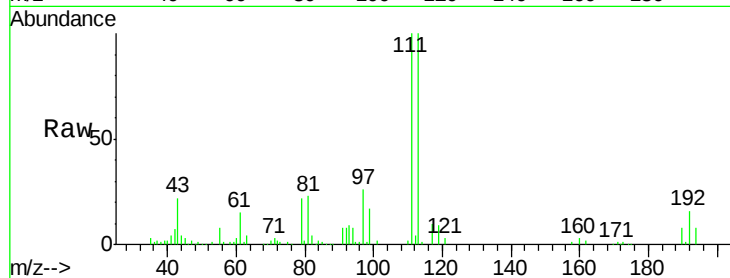




#37  
Ethyl Acetate  
Concen: 24.587 ug/l  
RT: 4.12 min Scan# 354  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

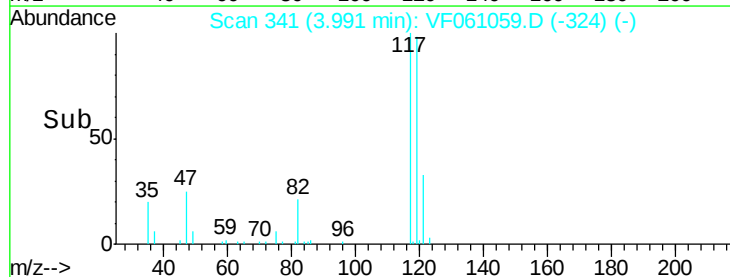
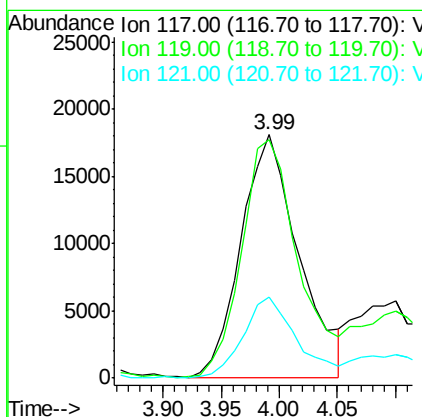
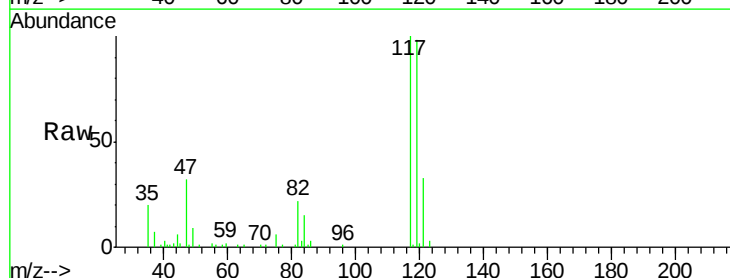
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

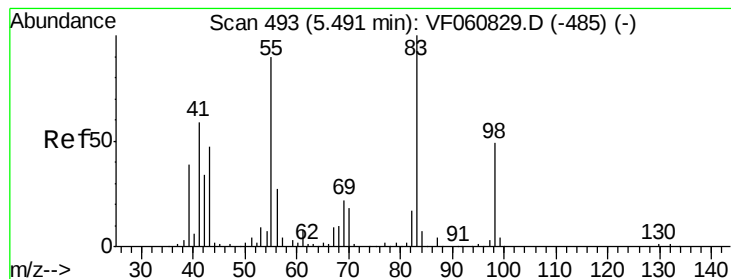
Tgt Ion: 43 Resp: 32617  
Ion Ratio Lower Upper  
43 100  
61 70.4 68.6 103.0  
70 7.9 9.0 13.4#



#38  
Carbon Tetrachloride  
Concen: 21.650 ug/l  
RT: 3.99 min Scan# 341  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion: 117 Resp: 62423  
Ion Ratio Lower Upper  
117 100  
119 98.1 74.4 111.6  
121 33.5 23.5 35.3





#39

Methylcyclohexane

Concen: 20.980 ug/l

RT: 5.46 min Scan# 490

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

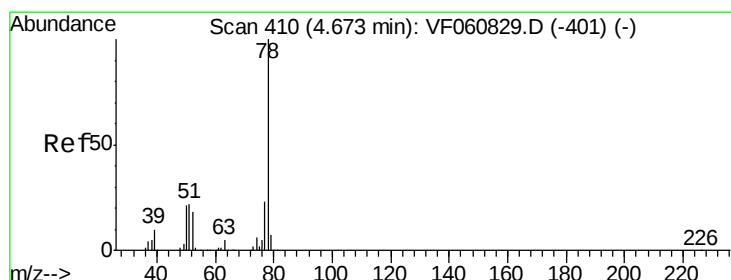
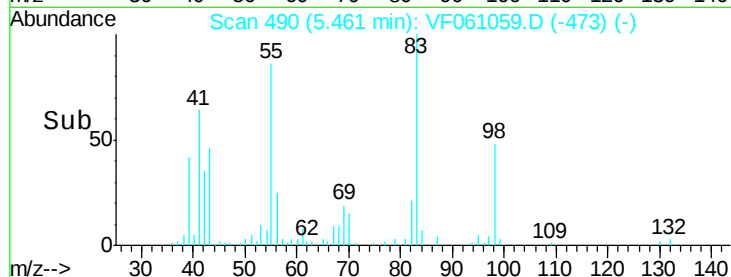
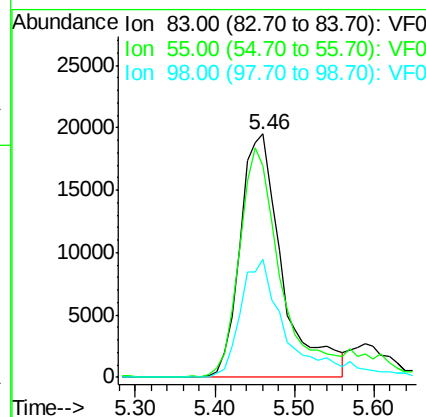
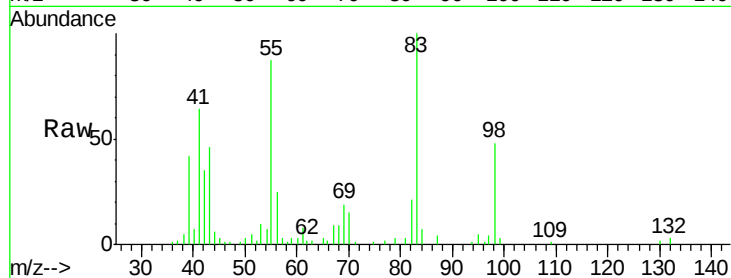
Tgt Ion: 83 Resp: 71772

Ion Ratio Lower Upper

83 100

55 87.0 72.1 108.1

98 48.3 39.1 58.7



#40

Benzene

Concen: 23.356 ug/l

RT: 4.63 min Scan# 406

Delta R.T. -0.04 min

Lab File: VF061059.D

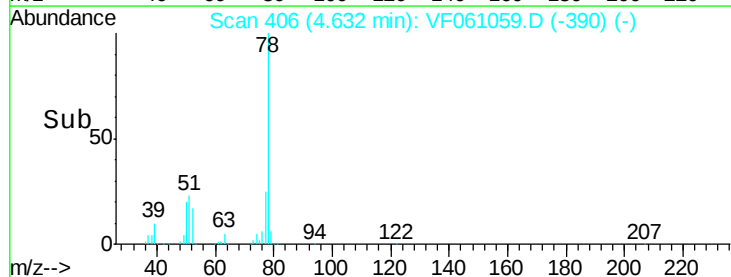
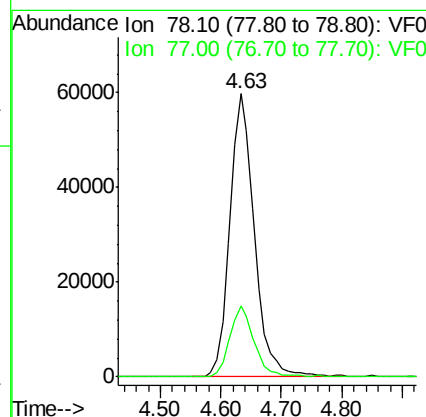
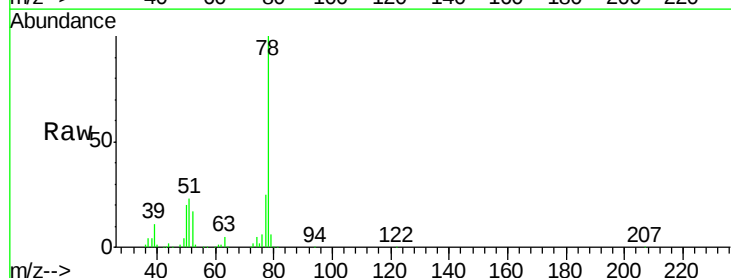
Acq: 18 Dec 2018 13:31

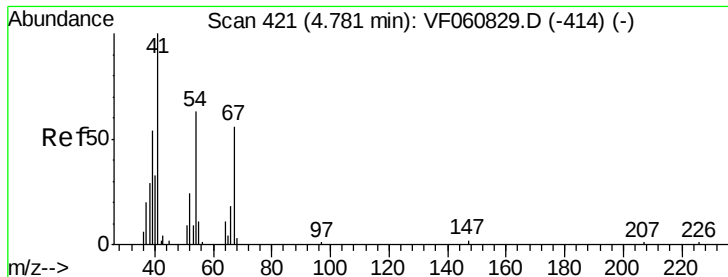
Tgt Ion: 78 Resp: 168438

Ion Ratio Lower Upper

78 100

77 25.3 18.7 28.1





#41

Methacrylonitrile

Concen: 23.183 ug/l

RT: 4.75 min Scan# 418

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

Tgt Ion: 41 Resp: 17352

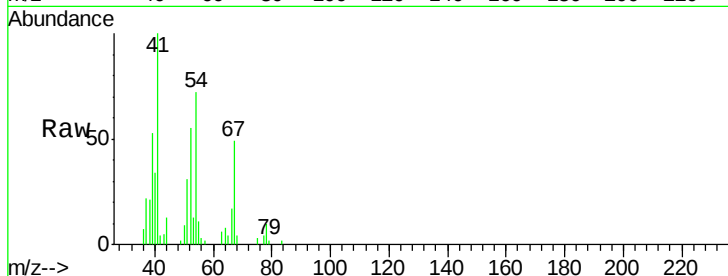
Ion Ratio Lower Upper

41 100

39 52.6 53.0 79.6#

67 49.0 43.8 65.6

52 55.2 37.8 56.8

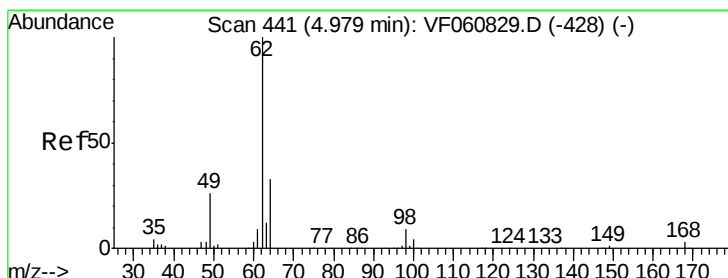
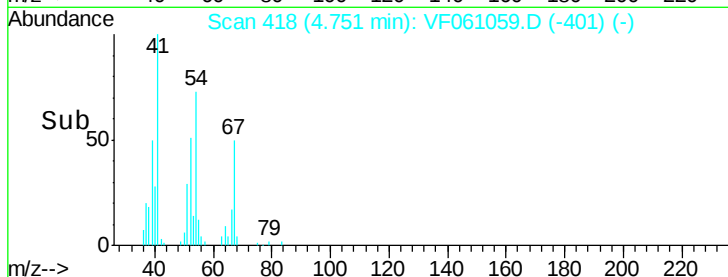
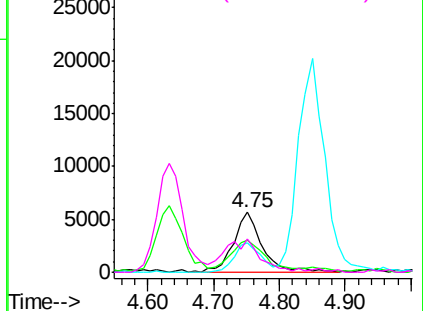


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 24.826 ug/l

RT: 4.95 min Scan# 438

Delta R.T. -0.03 min

Lab File: VF061059.D

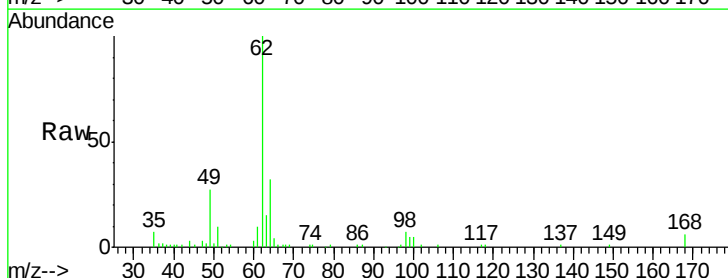
Acq: 18 Dec 2018 13:31

Tgt Ion: 62 Resp: 65362

Ion Ratio Lower Upper

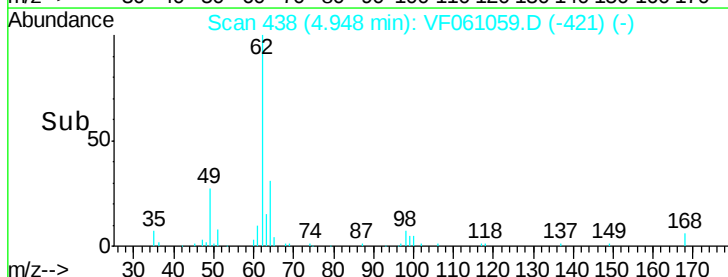
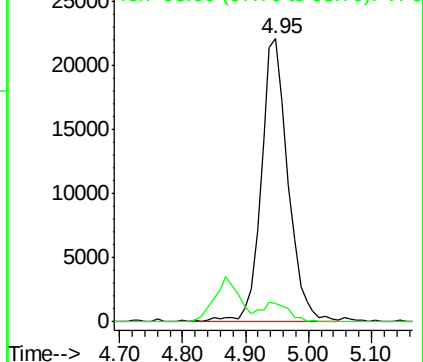
62 100

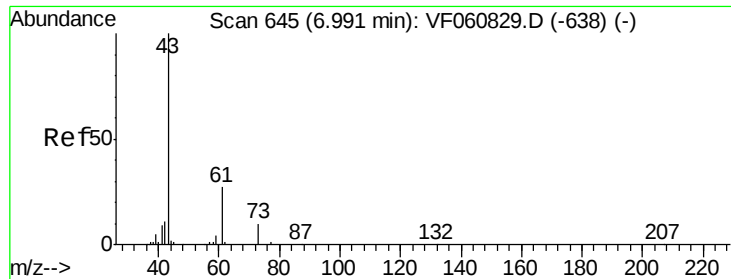
98 6.7 0.0 17.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 24.010 ug/l

RT: 6.96 min Scan# 642

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

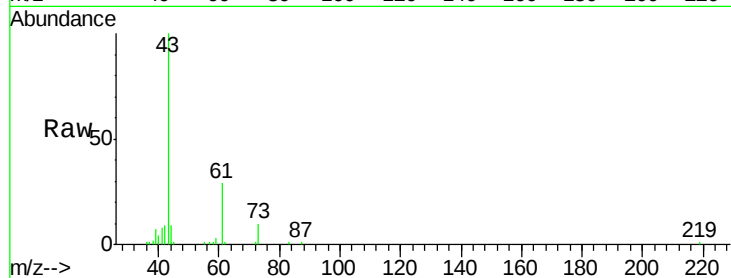
Tgt Ion: 43 Resp: 41612

Ion Ratio Lower Upper

43 100

61 28.8 21.4 32.0

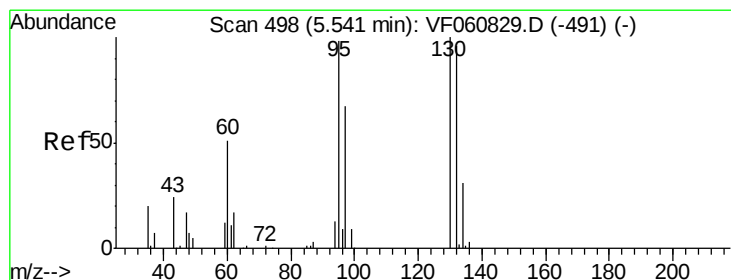
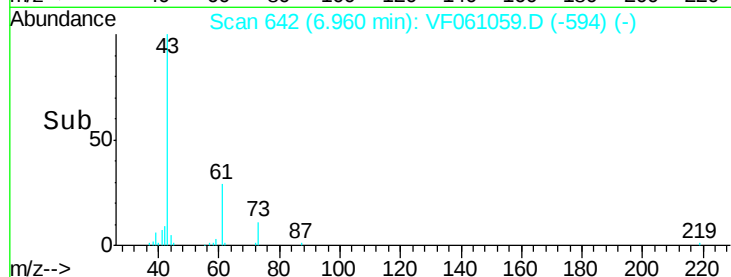
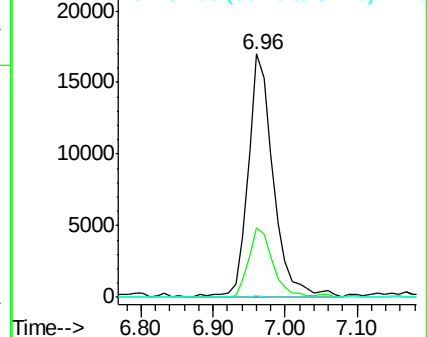
87 0.9 0.2 0.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 23.588 ug/l

RT: 5.51 min Scan# 495

Delta R.T. -0.03 min

Lab File: VF061059.D

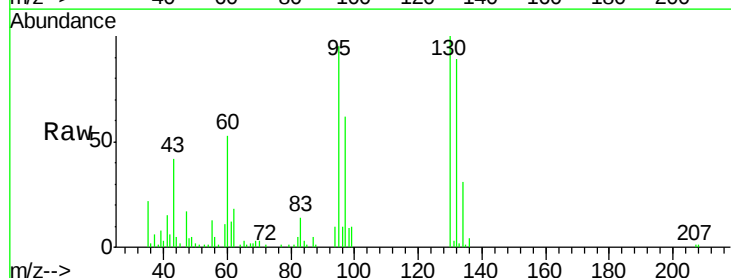
Acq: 18 Dec 2018 13:31

Tgt Ion: 130 Resp: 55620

Ion Ratio Lower Upper

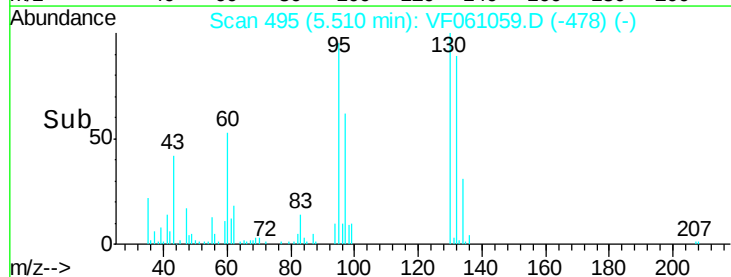
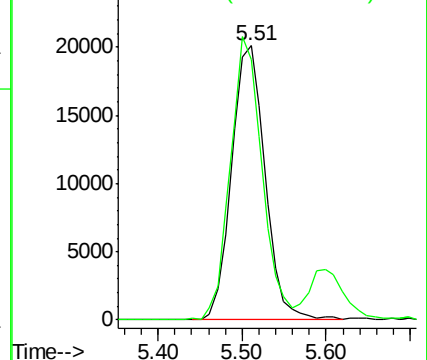
130 100

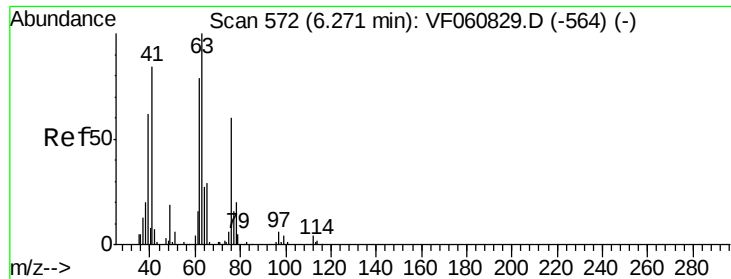
95 95.2 0.0 195.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 22.339 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

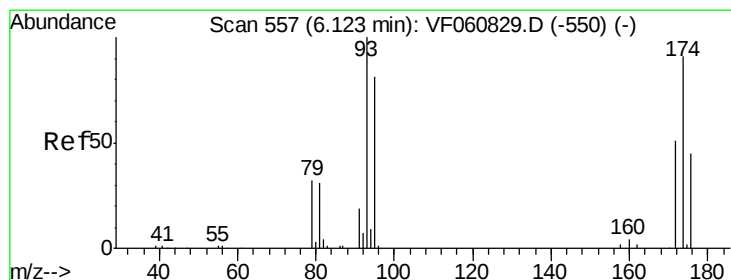
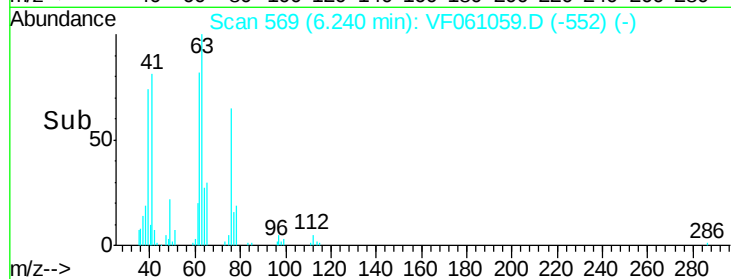
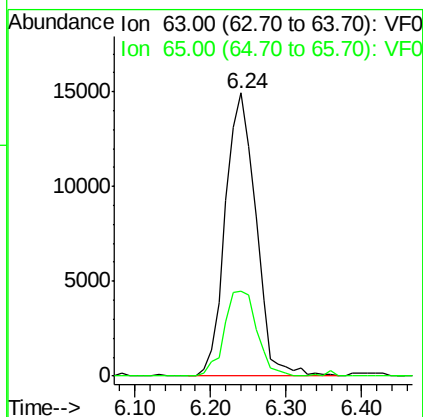
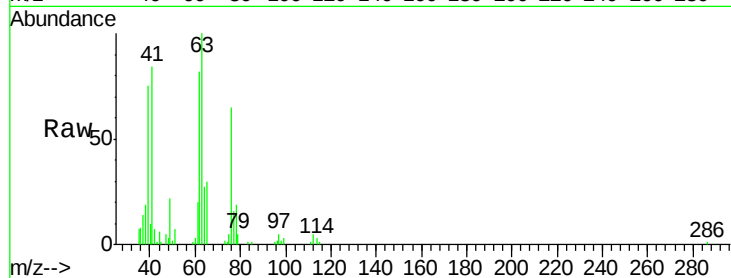
VF1218SBS02

Tgt Ion: 63 Resp: 41841

Ion Ratio Lower Upper

63 100

65 30.2 23.2 34.8



#46

Dibromomethane

Concen: 23.587 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

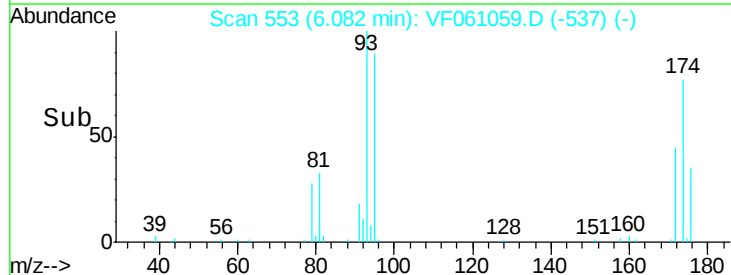
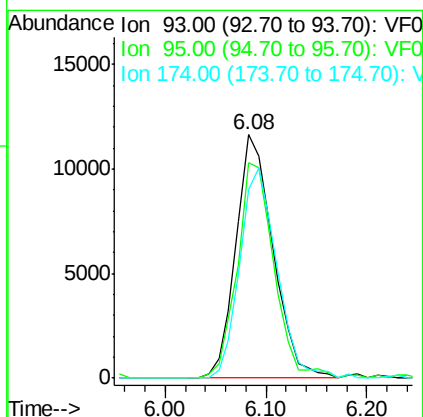
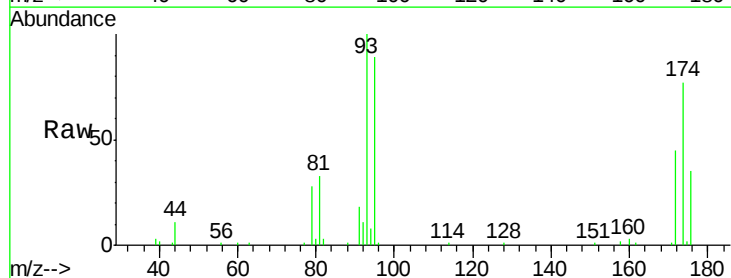
Tgt Ion: 93 Resp: 29969

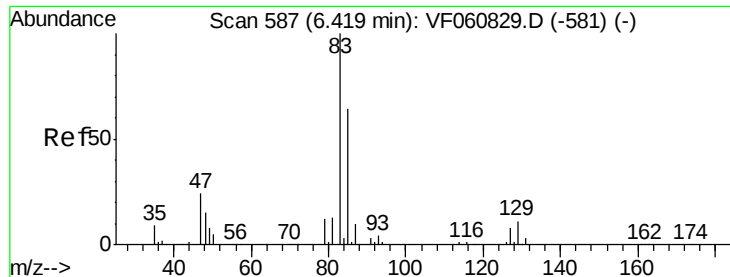
Ion Ratio Lower Upper

93 100

95 88.8 64.7 97.1

174 77.3 73.0 109.6





#47

Bromodichloromethane

Concen: 24.372 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

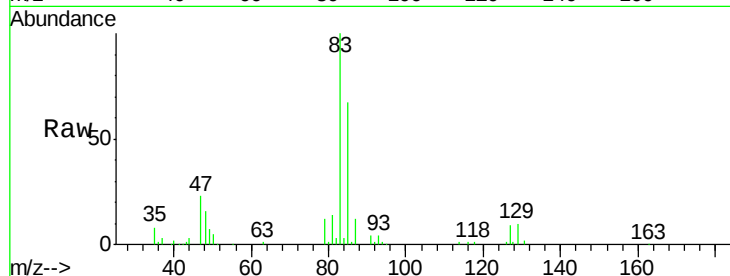
Tgt Ion: 83 Resp: 82247

Ion Ratio Lower Upper

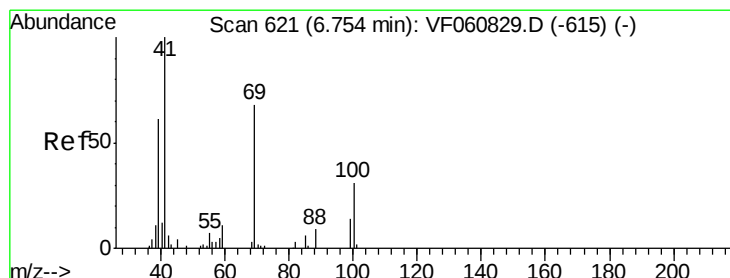
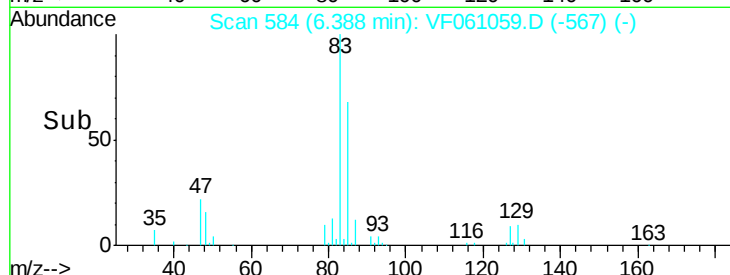
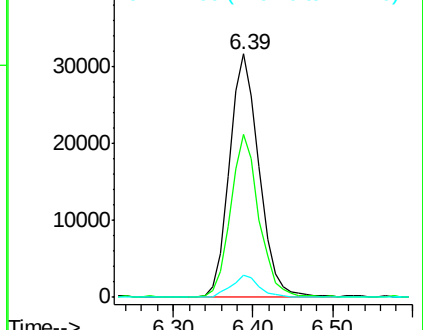
83 100

85 67.2 51.1 76.7

127 9.1 6.8 10.2



Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 85.00 (84.70 to 85.70): VF0  
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 23.257 ug/l

RT: 6.72 min Scan# 618

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

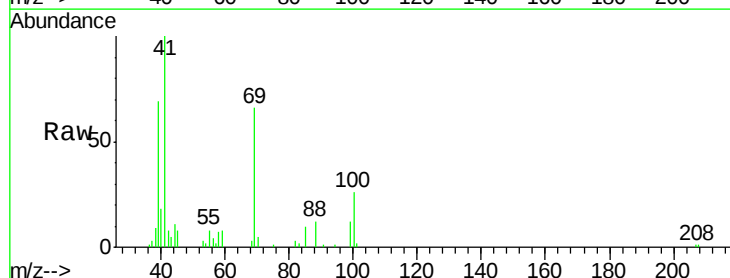
Tgt Ion: 41 Resp: 27926

Ion Ratio Lower Upper

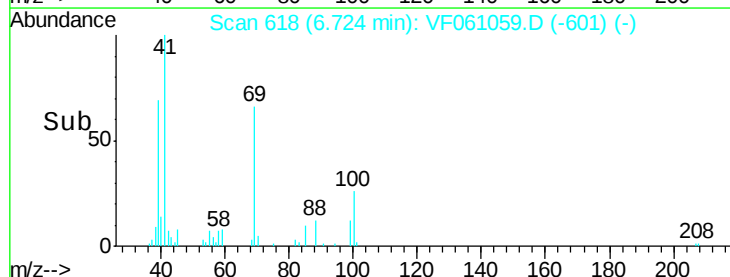
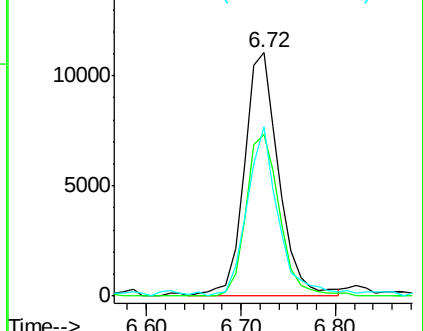
41 100

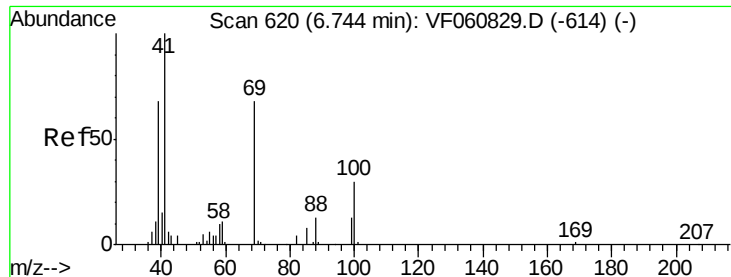
69 66.3 53.9 80.9

39 69.3 49.0 73.6



Abundance Ion 41.00 (40.70 to 41.70): VF0  
Ion 69.00 (68.70 to 69.70): VF0  
Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 538.796 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

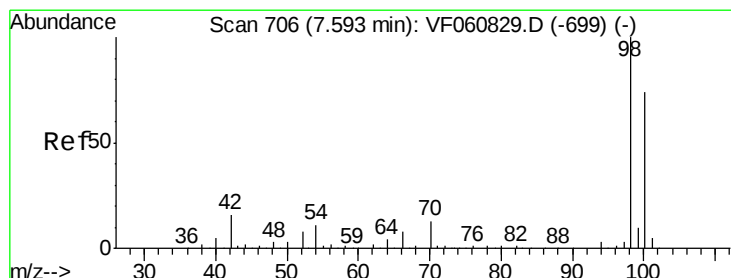
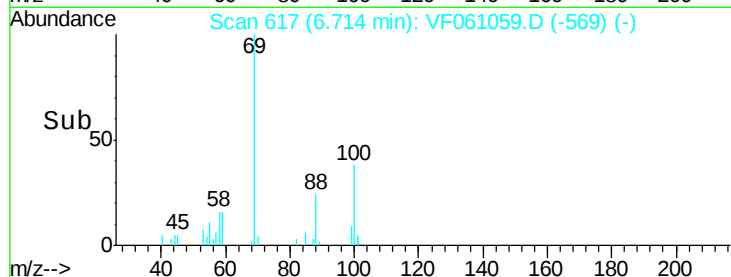
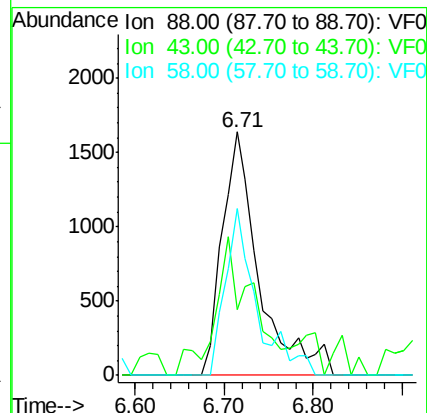
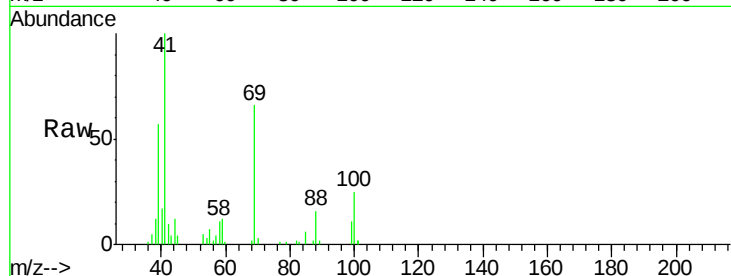
Tgt Ion: 88 Resp: 4735

Ion Ratio Lower Upper

88 100

43 27.1 42.0 63.0#

58 68.3 61.8 92.8



#50

Toluene-d8

Concen: 49.834 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF061059.D

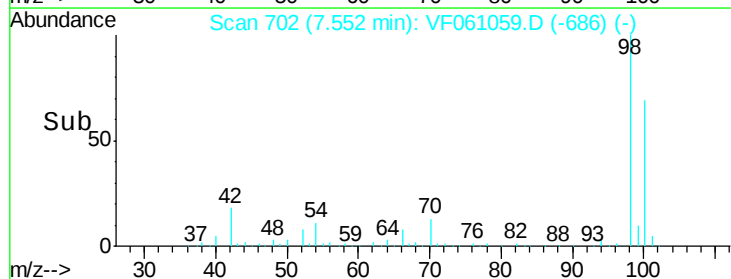
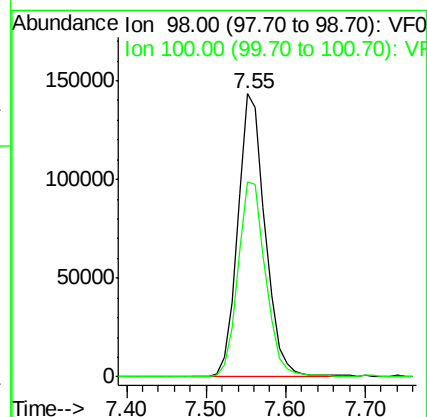
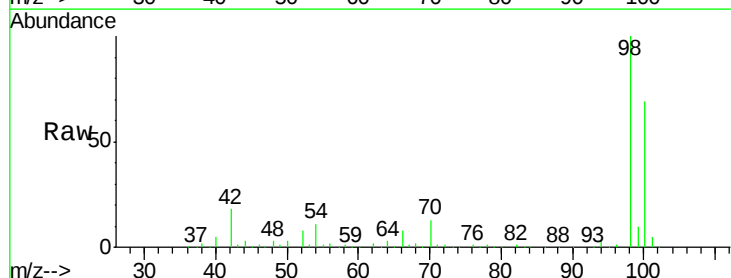
Acq: 18 Dec 2018 13:31

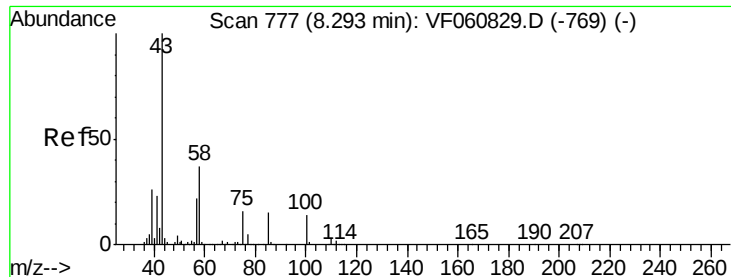
Tgt Ion: 98 Resp: 342748

Ion Ratio Lower Upper

98 100

100 68.8 59.3 88.9

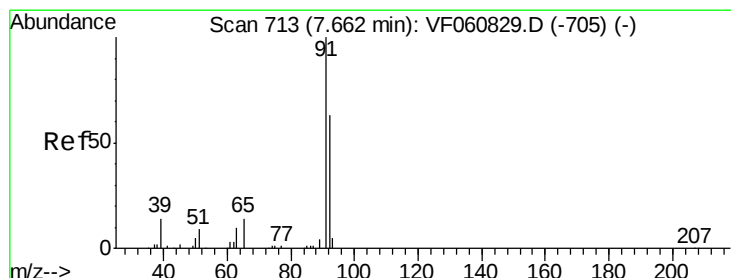
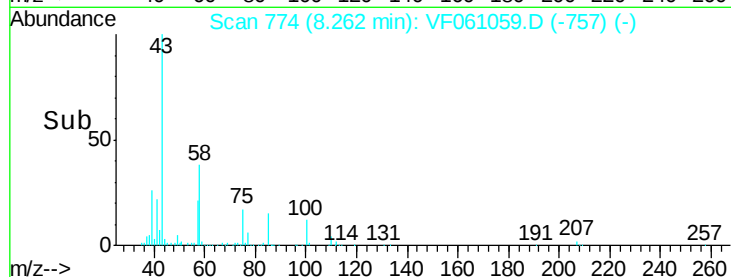
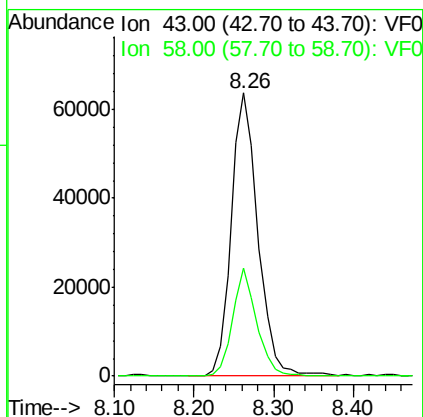
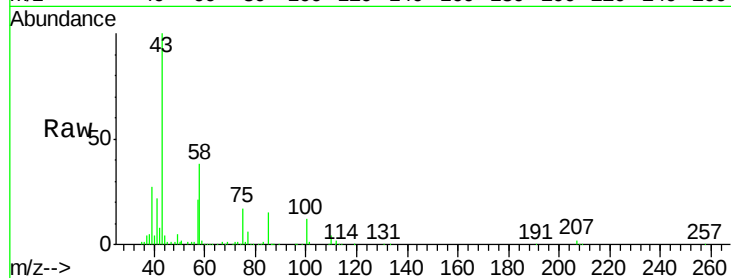




#51  
 4-Methyl-2-Pentanone  
 Concen: 121.049 ug/l  
 RT: 8.26 min Scan# 774  
 Delta R.T. -0.03 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

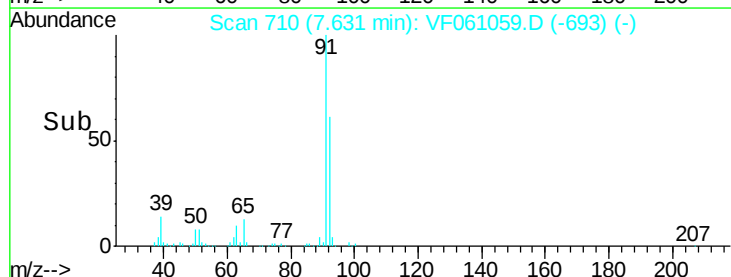
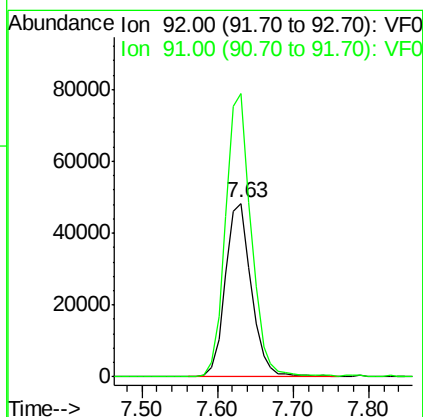
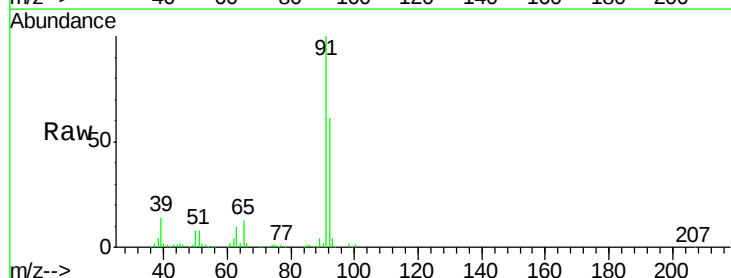
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

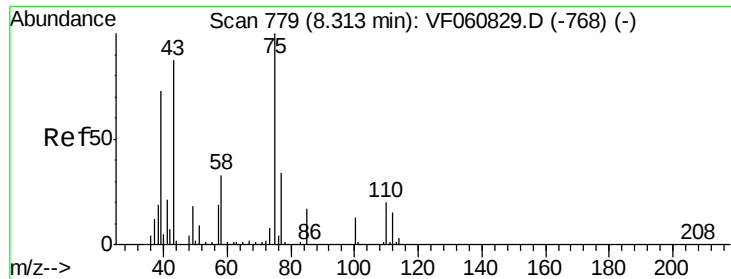
Tgt Ion: 43 Resp: 148081  
 Ion Ratio Lower Upper  
 43 100  
 58 38.2 29.7 44.5



#52  
 Toluene  
 Concen: 22.585 ug/l  
 RT: 7.63 min Scan# 710  
 Delta R.T. -0.03 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Tgt Ion: 92 Resp: 114409  
 Ion Ratio Lower Upper  
 92 100  
 91 163.2 126.2 189.2

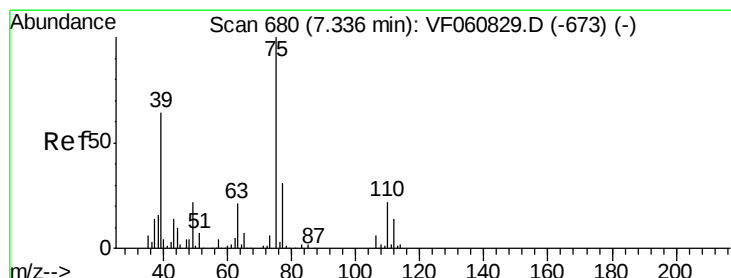
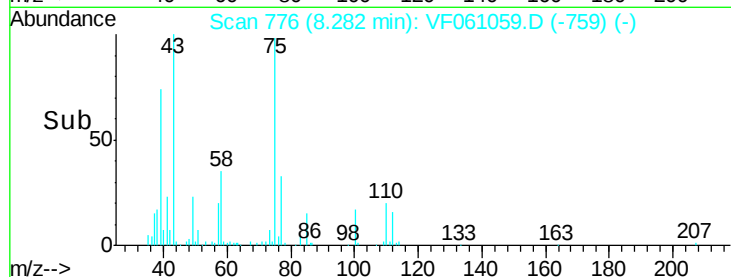
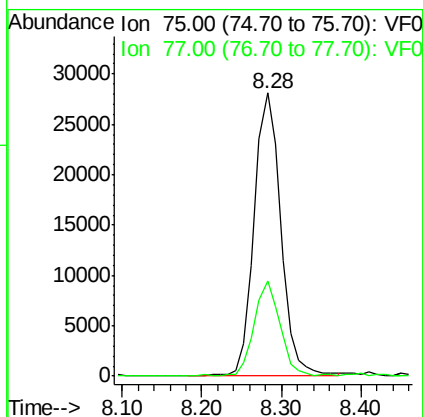
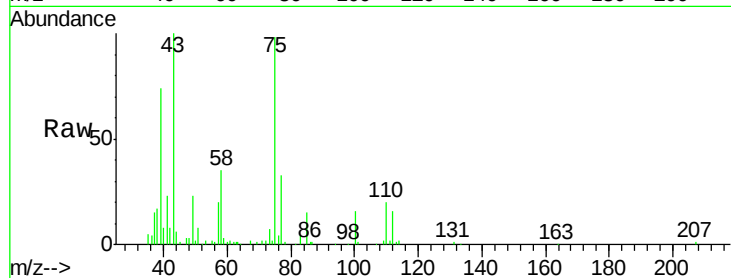




#53  
 t-1,3-Dichloropropene  
 Concen: 23.705 ug/l  
 RT: 8.28 min Scan# 776  
 Delta R.T. -0.03 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

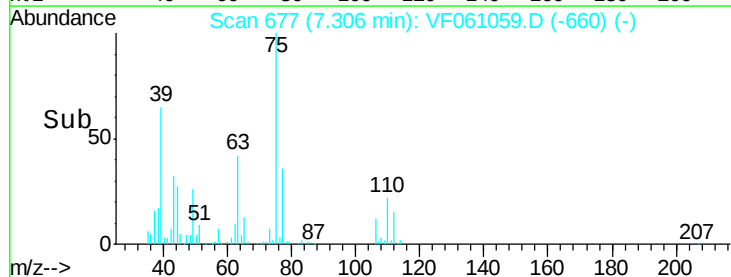
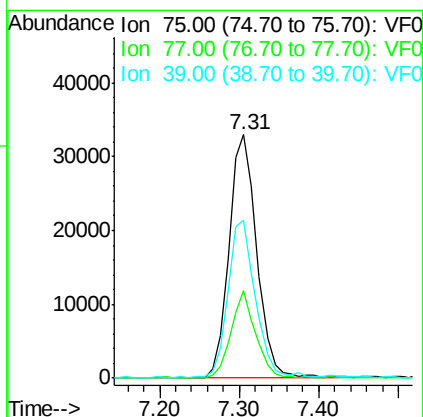
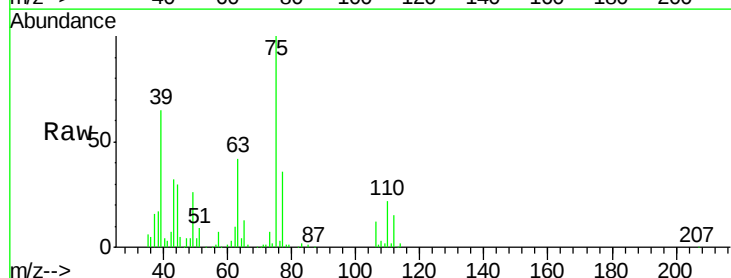
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

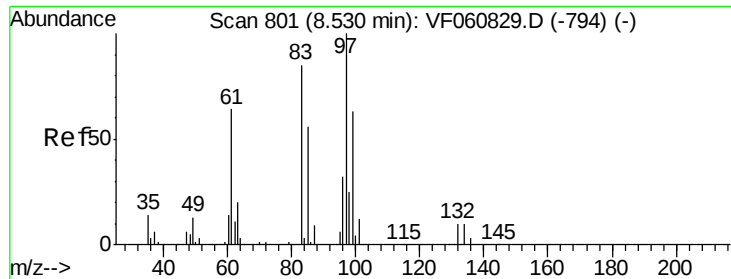
Tgt Ion: 75 Resp: 65069  
 Ion Ratio Lower Upper  
 75 100  
 77 33.8 27.4 41.2



#54  
 cis-1,3-Dichloropropene  
 Concen: 23.663 ug/l  
 RT: 7.31 min Scan# 677  
 Delta R.T. -0.03 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Tgt Ion: 75 Resp: 80412  
 Ion Ratio Lower Upper  
 75 100  
 77 36.0 25.0 37.6  
 39 65.0 51.1 76.7





#55

1,1,2-Trichloroethane

Concen: 24.148 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

Tgt Ion: 97 Resp: 35644

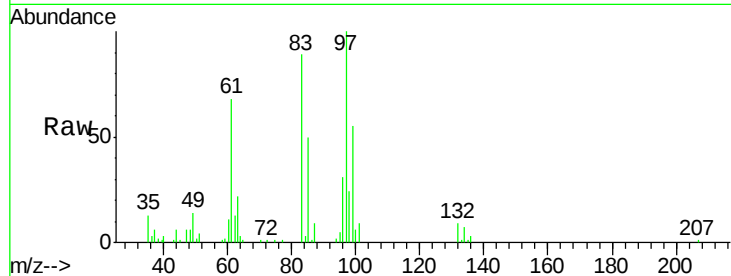
Ion Ratio Lower Upper

97 100

83 88.6 67.8 101.6

85 50.3 45.0 67.6

99 54.6 50.5 75.7

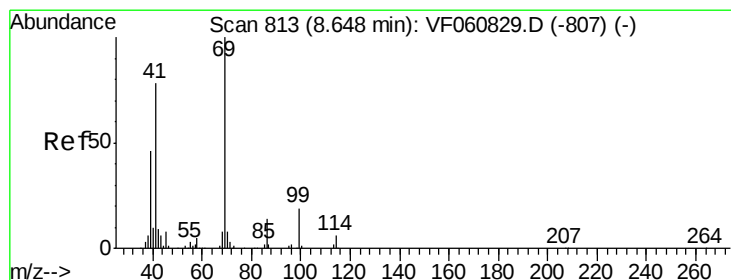
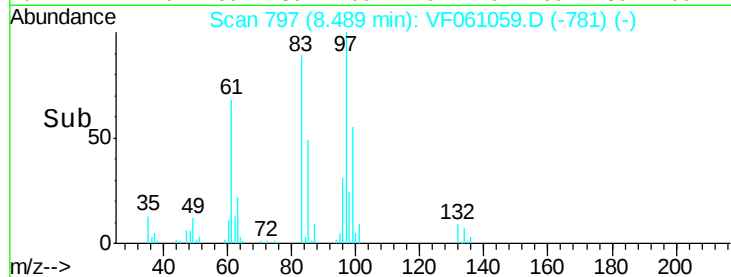
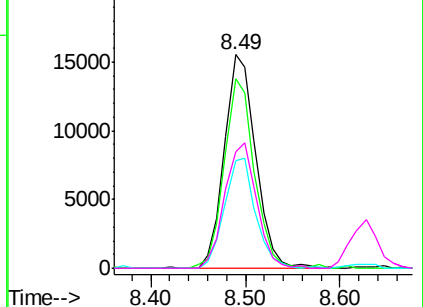


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 23.036 ug/l

RT: 8.63 min Scan# 811

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

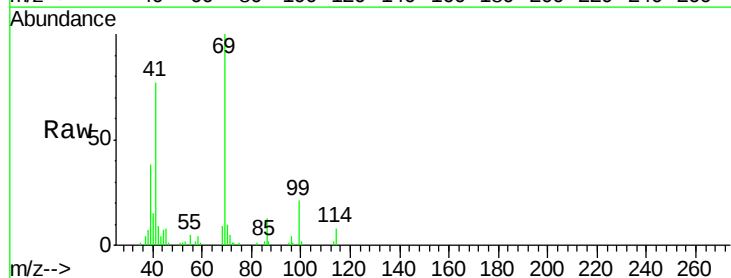
Tgt Ion: 69 Resp: 37772

Ion Ratio Lower Upper

69 100

41 77.1 62.6 94.0

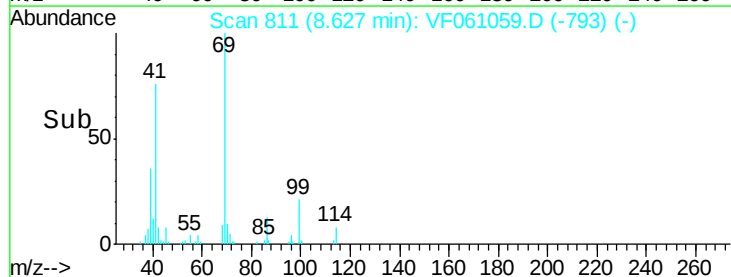
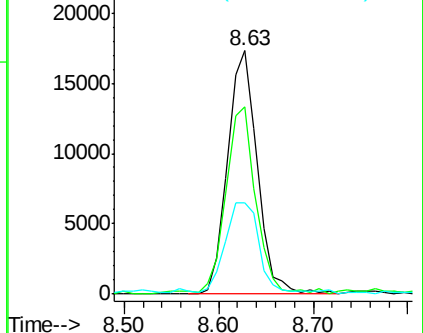
39 37.7 37.8 56.6#

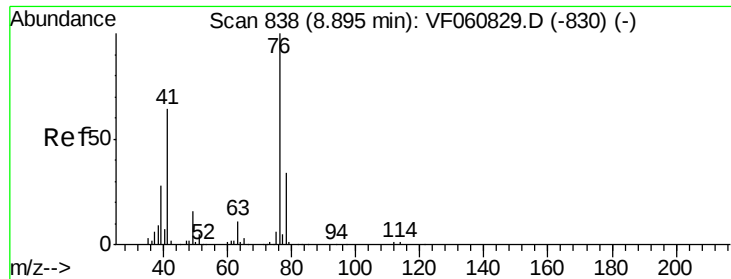


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 24.604 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.04 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

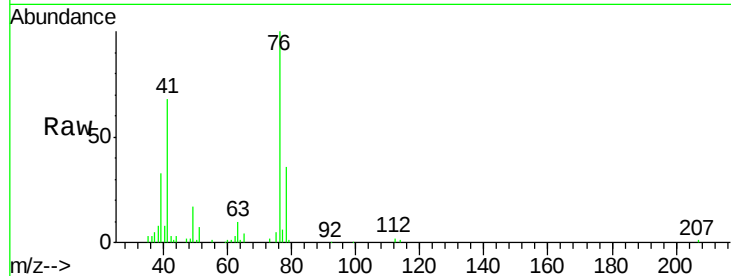
VF1218SBS02

Tgt Ion: 76 Resp: 63537

Ion Ratio Lower Upper

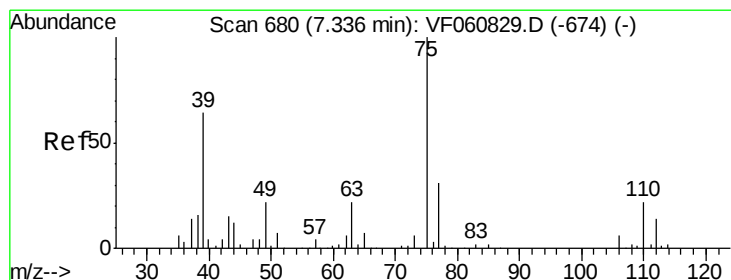
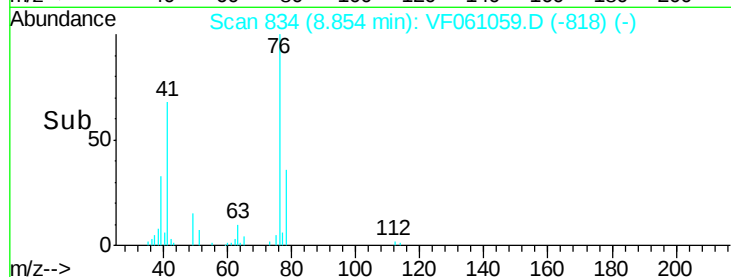
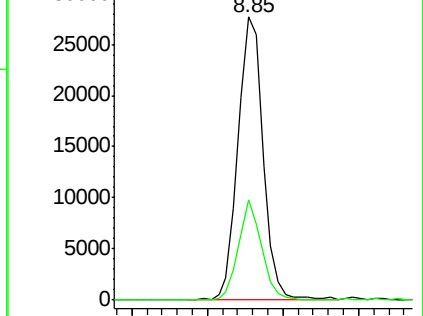
76 100

78 35.5 27.0 40.4



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 215.014 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF061059.D

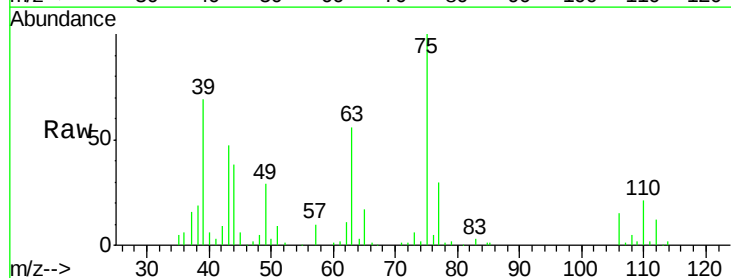
Acq: 18 Dec 2018 13:31

Tgt Ion: 63 Resp: 36062

Ion Ratio Lower Upper

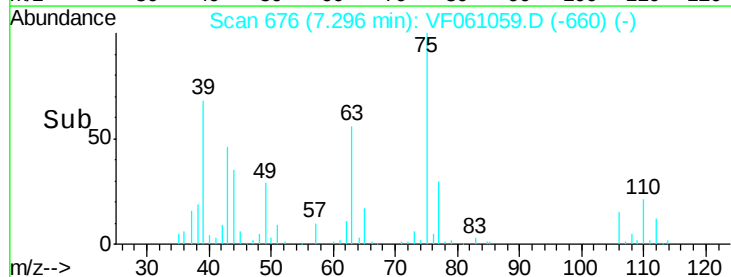
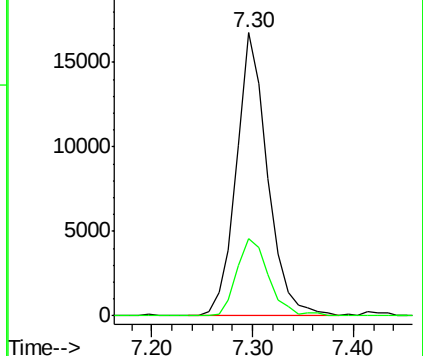
63 100

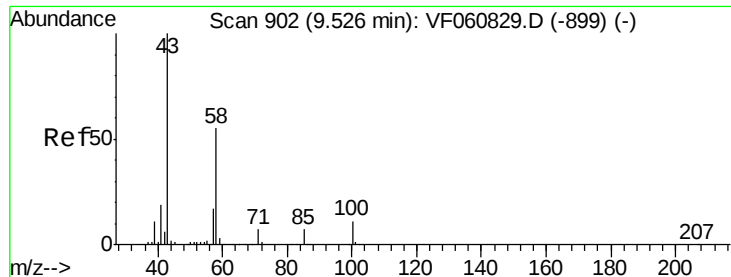
106 27.3 23.0 34.6



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

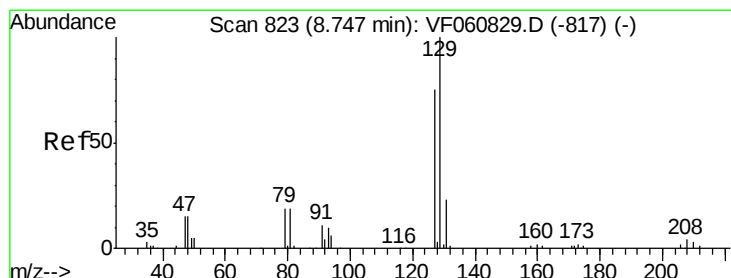
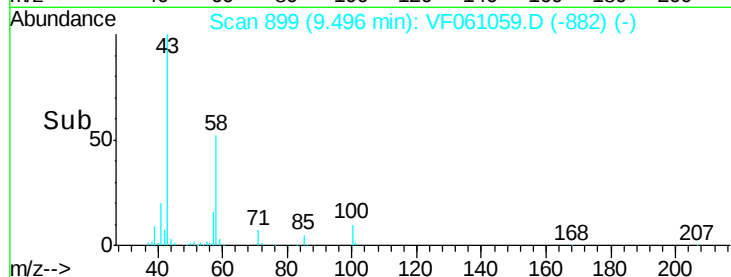
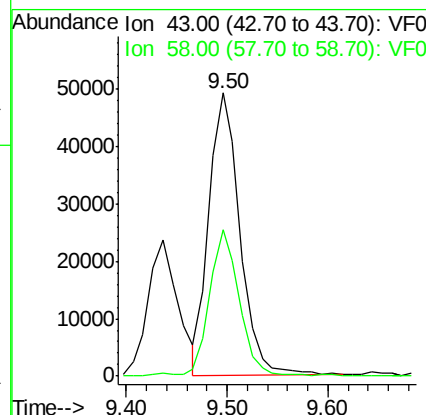
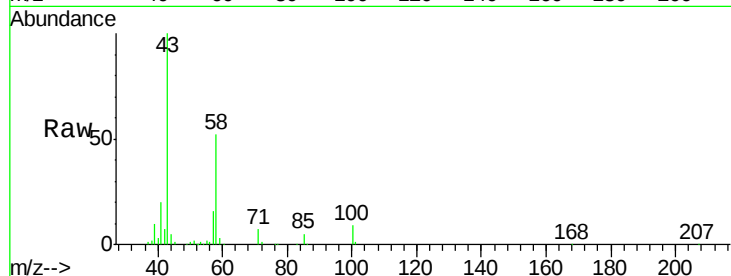




#59  
2-Hexanone  
Concen: 122.351 ug/l  
RT: 9.50 min Scan# 899  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

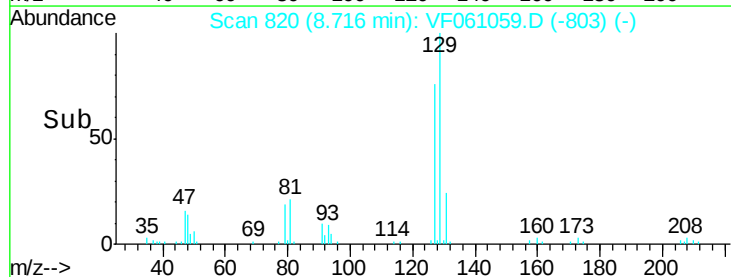
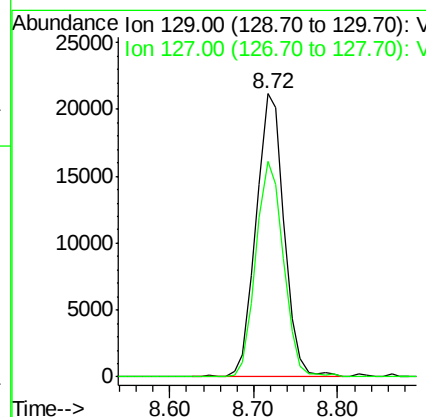
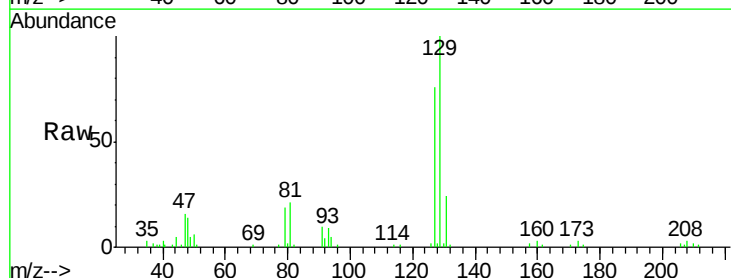
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

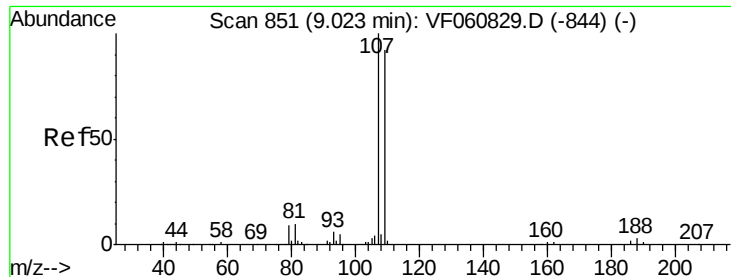
Tgt Ion: 43 Resp: 105005  
Ion Ratio Lower Upper  
43 100  
58 51.8 25.6 76.6



#60  
Dibromochloromethane  
Concen: 22.645 ug/l  
RT: 8.72 min Scan# 820  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion: 129 Resp: 49802  
Ion Ratio Lower Upper  
129 100  
127 76.1 37.3 111.9





#61

1,2-Dibromoethane

Concen: 22.181 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

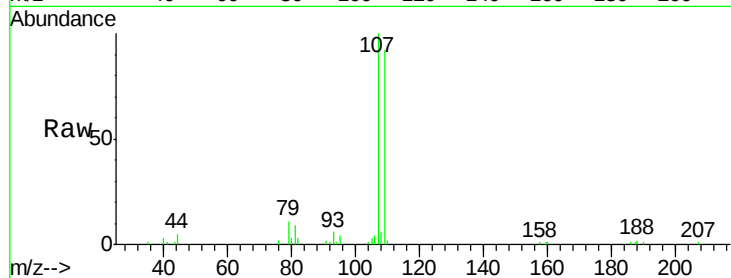
VF1218SBS02

Tgt Ion:107 Resp: 35369

Ion Ratio Lower Upper

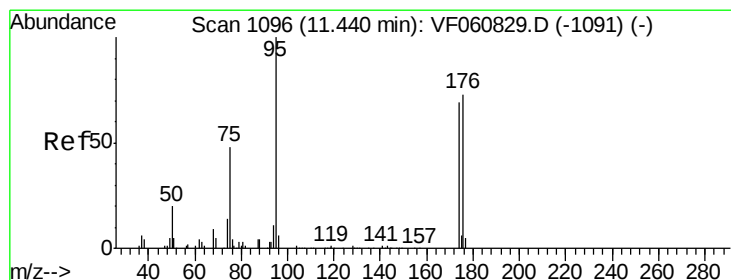
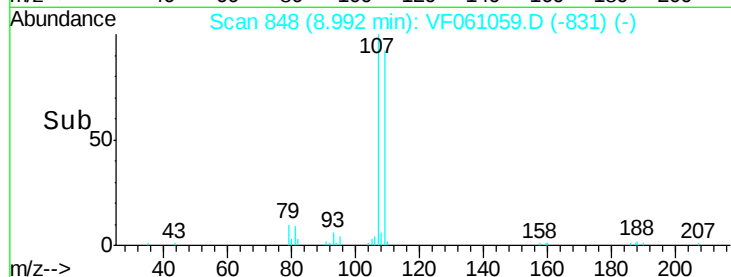
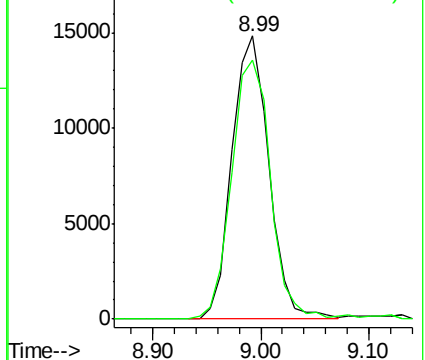
107 100

109 91.6 73.6 110.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 52.111 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

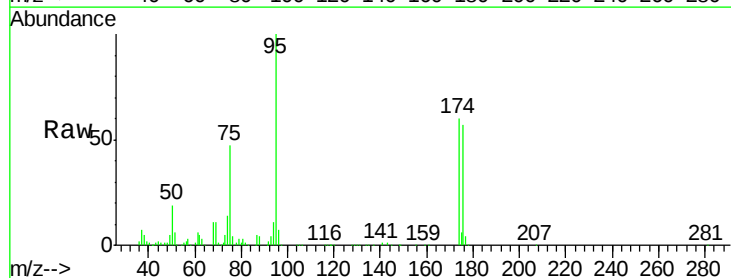
Tgt Ion: 95 Resp: 162892

Ion Ratio Lower Upper

95 100

174 60.3 0.0 138.2

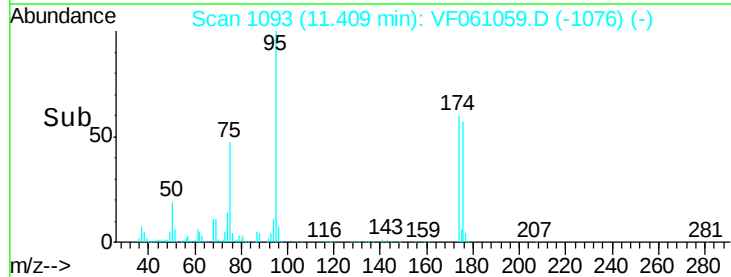
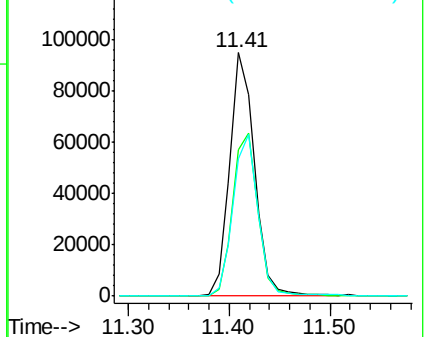
176 56.7 0.0 146.2

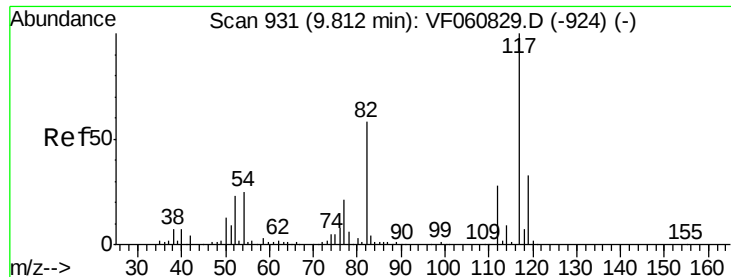


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

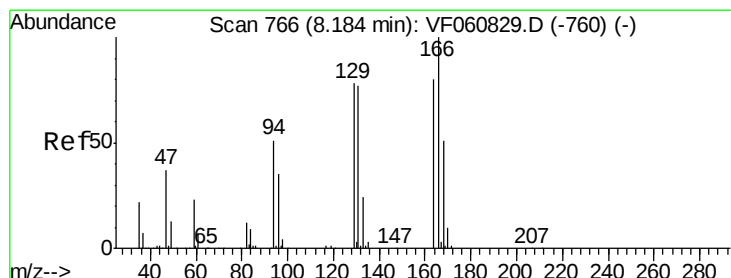
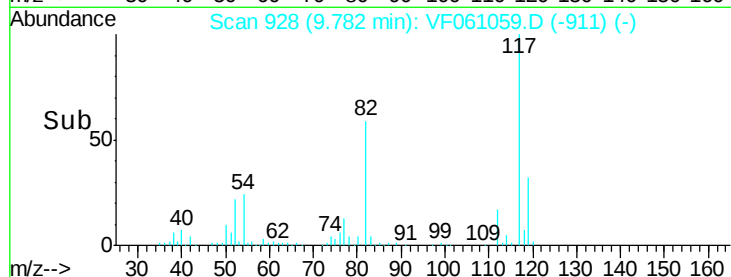
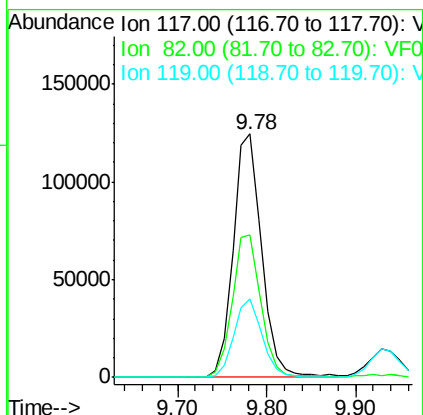
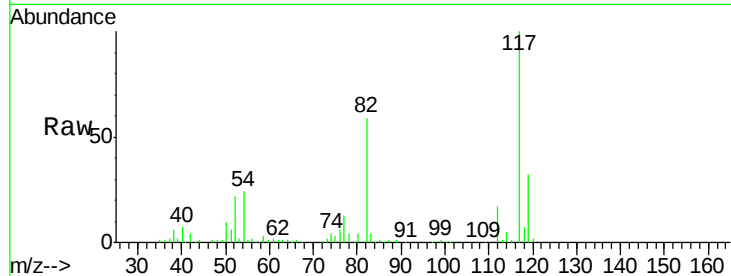




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.78 min Scan# 928  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

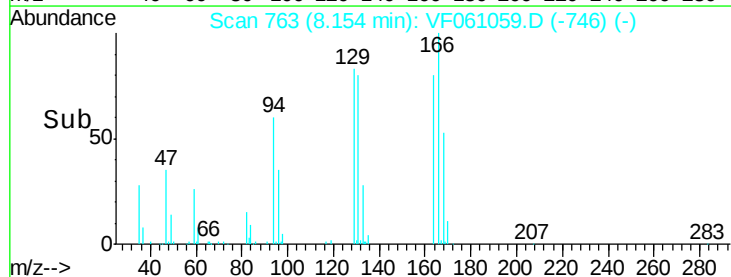
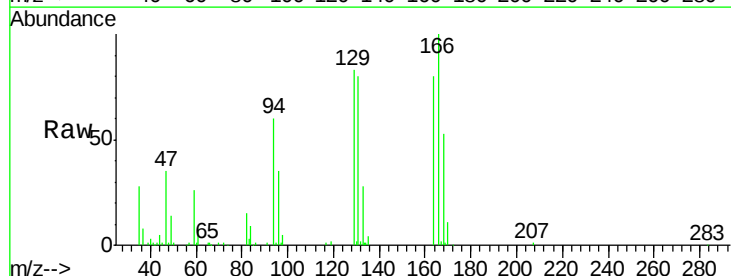
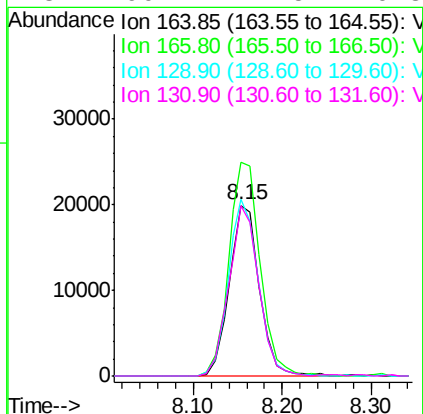
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

Tgt Ion:117 Resp: 277183  
Ion Ratio Lower Upper  
117 100  
82 58.6 46.6 69.8  
119 32.2 26.4 39.6



#64  
Tetrachloroethene  
Concen: 22.240 ug/l  
RT: 8.15 min Scan# 763  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion:164 Resp: 47084  
Ion Ratio Lower Upper  
164 100  
166 125.3 100.3 150.5  
129 103.8 77.9 116.9  
131 99.7 77.5 116.3

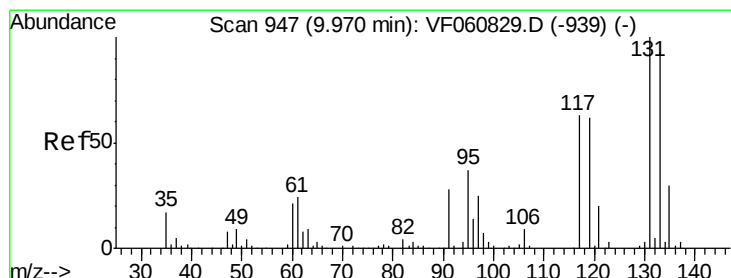
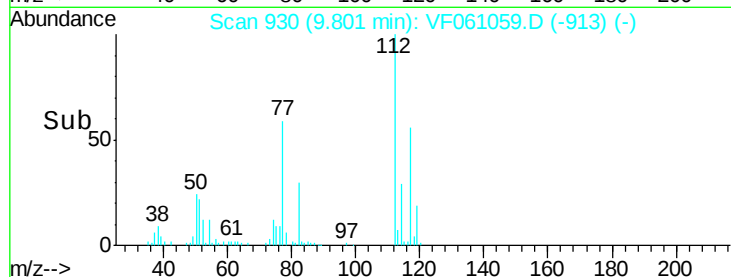
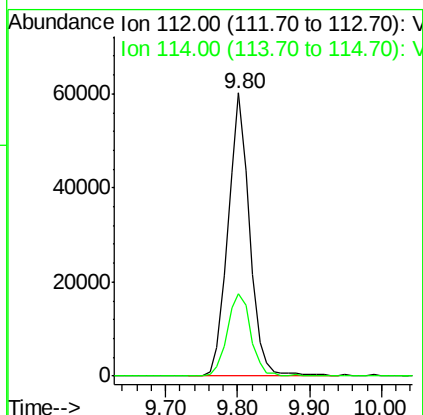
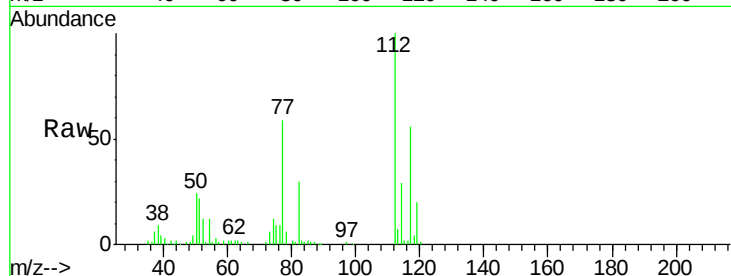




#65  
Chlorobenzene  
Concen: 23.269 ug/l  
RT: 9.80 min Scan# 930  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

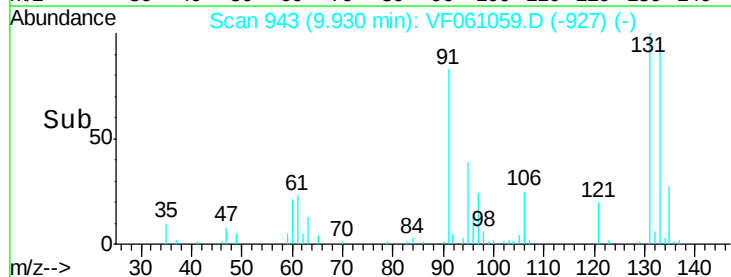
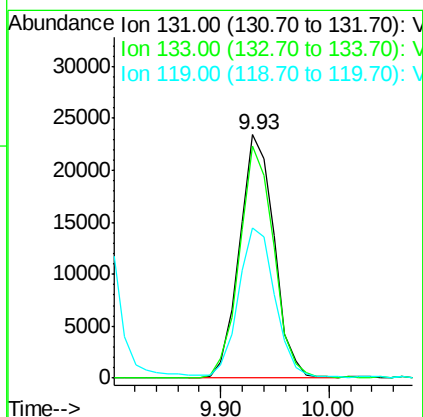
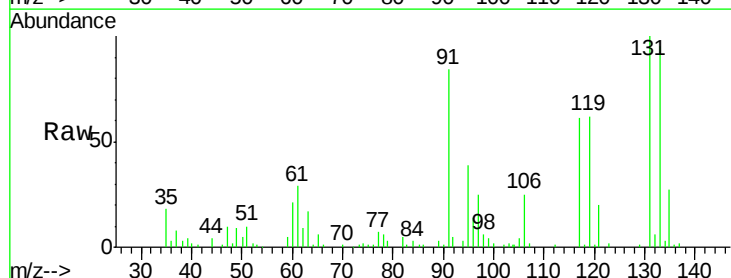
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

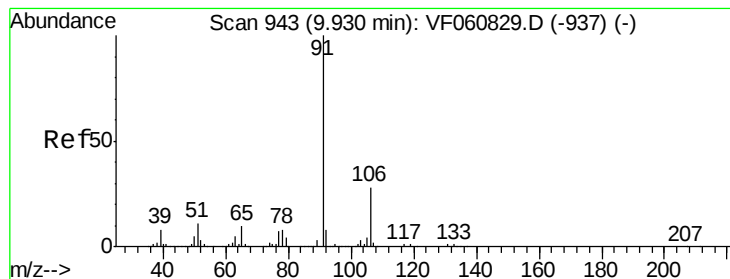
Tgt Ion:112 Resp: 125474  
Ion Ratio Lower Upper  
112 100  
114 29.2 26.0 39.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 22.509 ug/l  
RT: 9.93 min Scan# 943  
Delta R.T. -0.04 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion:131 Resp: 52179  
Ion Ratio Lower Upper  
131 100  
133 95.4 46.5 139.3  
119 61.6 31.1 93.3





#67

Ethyl Benzene

Concen: 23.914 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

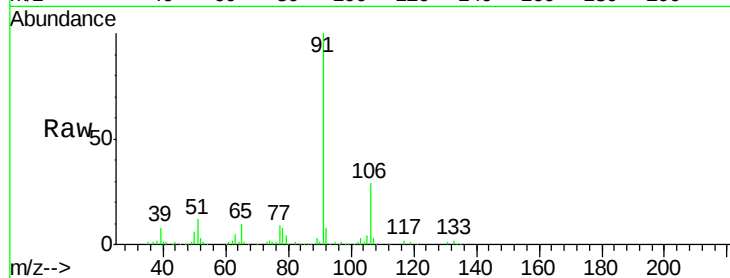
VF1218SBS02

Tgt Ion: 91 Resp: 240067

Ion Ratio Lower Upper

91 100

106 28.7 22.2 33.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

120000

100000

80000

60000

40000

20000

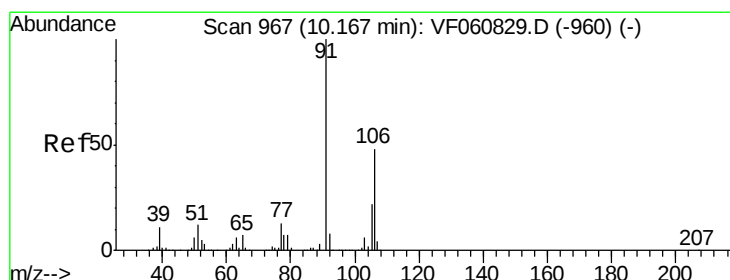
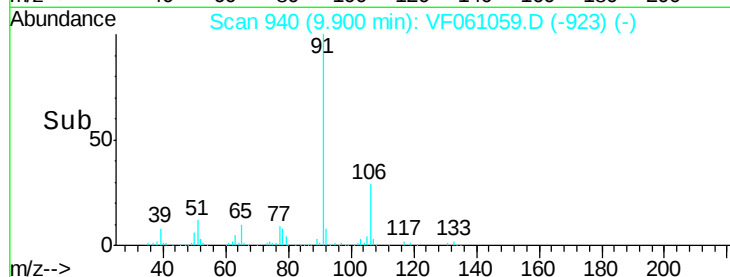
0

9.80

9.90

10.00

Time-->



#68

m/p-Xylenes

Concen: 48.033 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.03 min

Lab File: VF061059.D

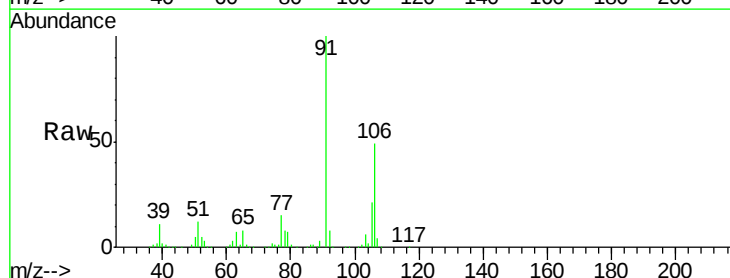
Acq: 18 Dec 2018 13:31

Tgt Ion: 106 Resp: 173427

Ion Ratio Lower Upper

106 100

91 202.9 166.7 250.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

100000

50000

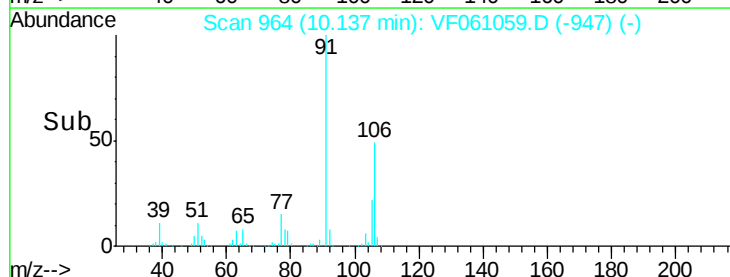
0

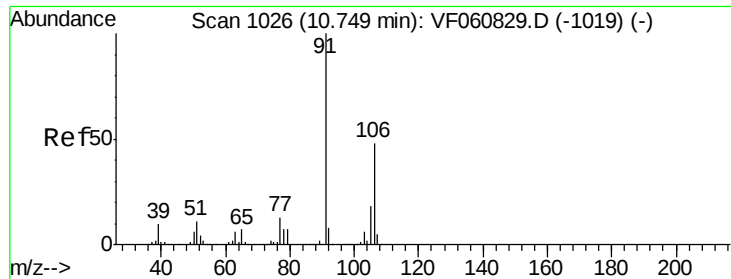
10.00

10.10

10.20

Time-->

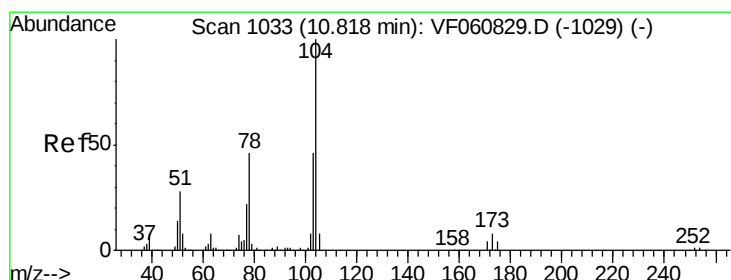
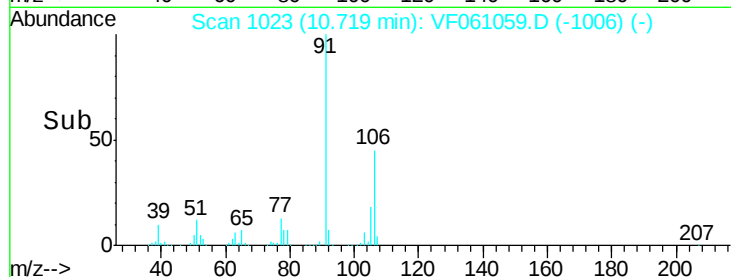
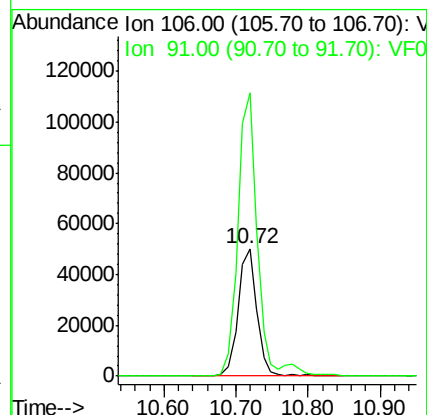
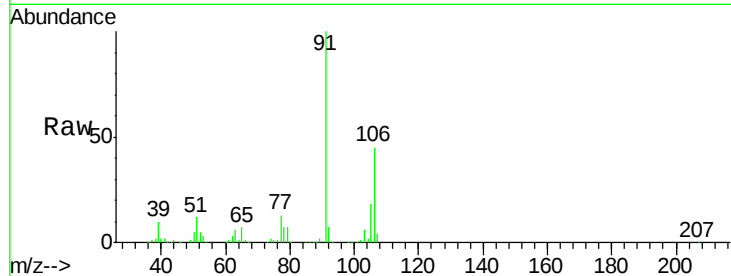




#69  
o-Xylene  
Concen: 22.906 ug/l  
RT: 10.72 min Scan# 1023  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

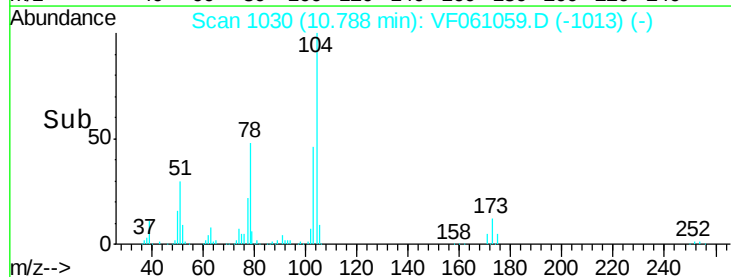
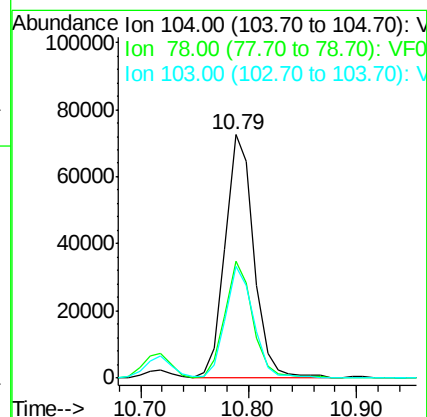
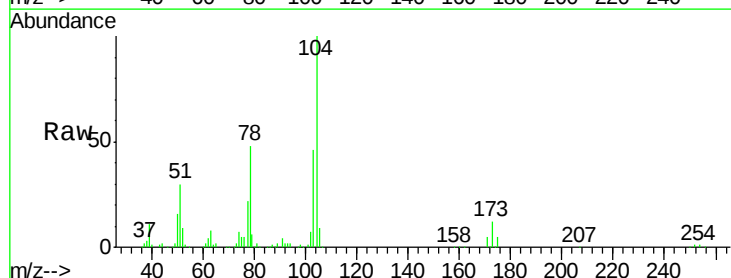
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

Tgt Ion:106 Resp: 91197  
Ion Ratio Lower Upper  
106 100  
91 222.5 104.8 314.6



#70  
Styrene  
Concen: 24.238 ug/l  
RT: 10.79 min Scan# 1030  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion:104 Resp: 133773  
Ion Ratio Lower Upper  
104 100  
78 47.9 37.3 55.9  
103 45.8 36.8 55.2

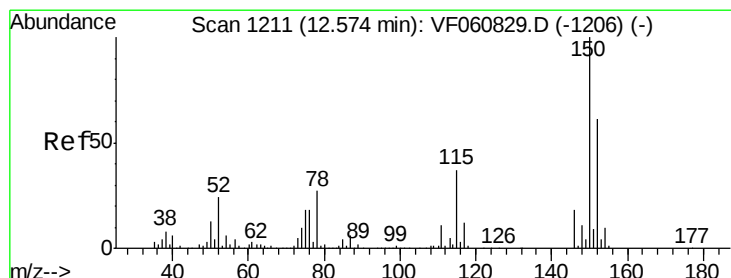
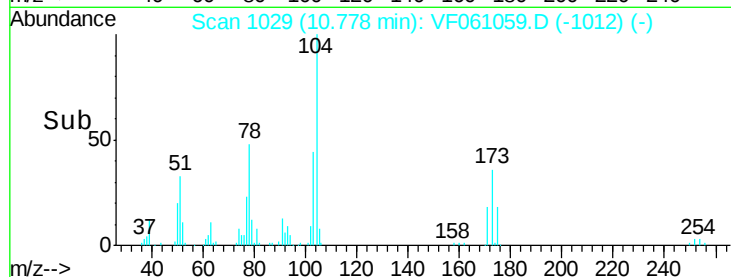
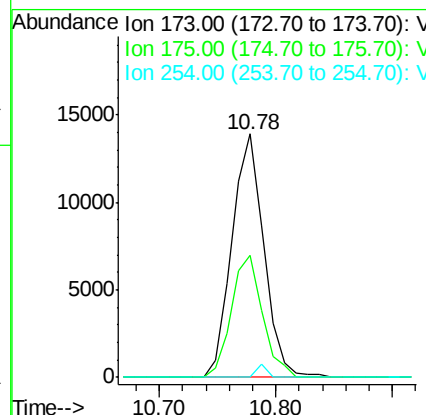
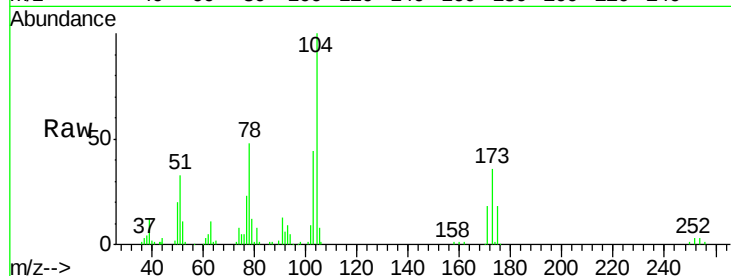




#71  
Bromoform  
Concen: 23.525 ug/l  
RT: 10.78 min Scan# 1029  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

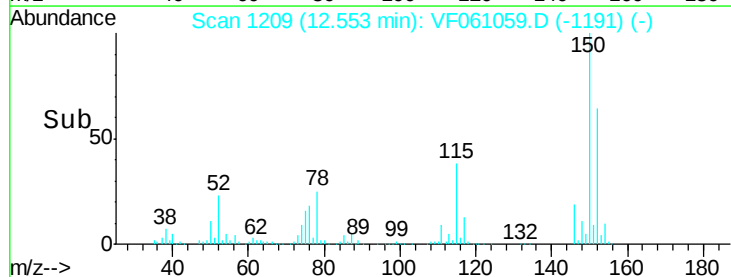
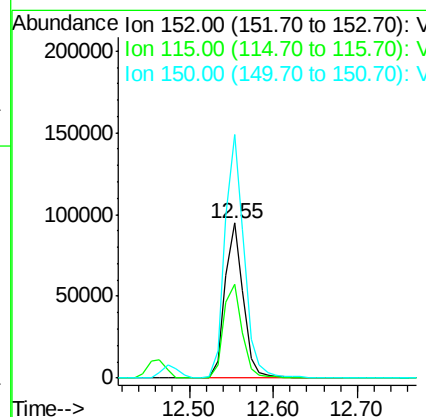
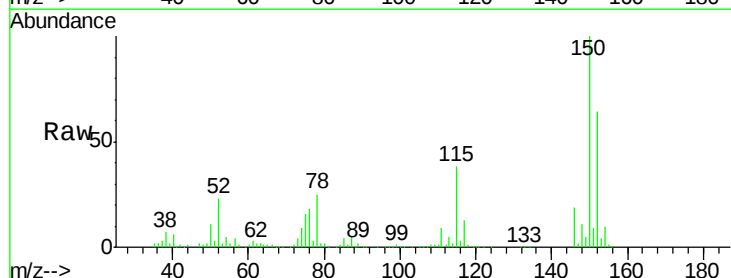
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

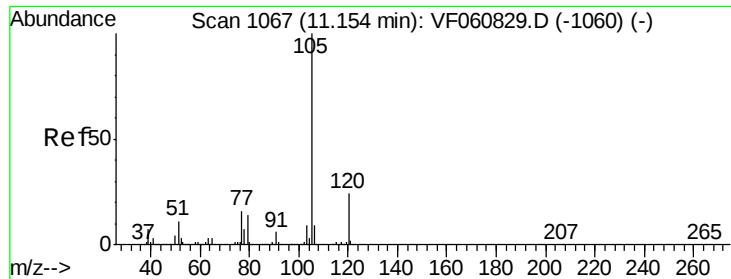
Tgt Ion:173 Resp: 26342  
Ion Ratio Lower Upper  
173 100  
175 50.1 25.5 76.5  
254 0.0 7.5 11.3#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.55 min Scan# 1209  
Delta R.T. -0.02 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion:152 Resp: 144023  
Ion Ratio Lower Upper  
152 100  
115 60.2 30.1 90.5  
150 157.1 0.0 327.6





#73

Isopropylbenzene

Concen: 24.056 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

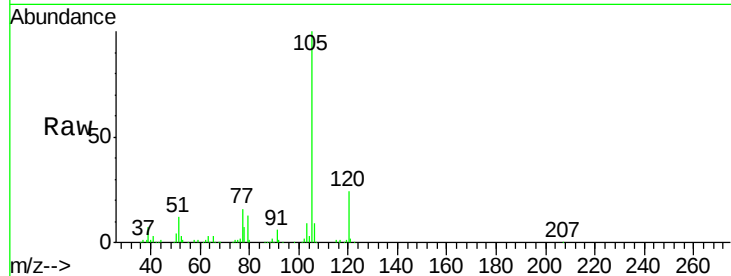
VF1218SBS02

Tgt Ion:105 Resp: 273795

Ion Ratio Lower Upper

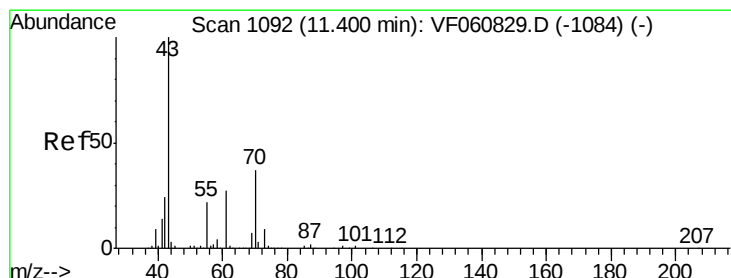
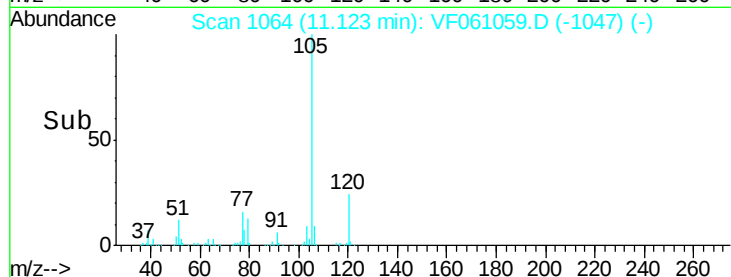
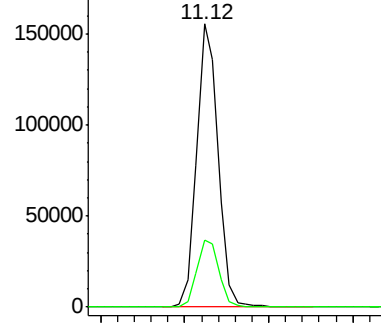
105 100

120 23.7 12.2 36.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.900 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Tgt Ion: 43 Resp: 62812

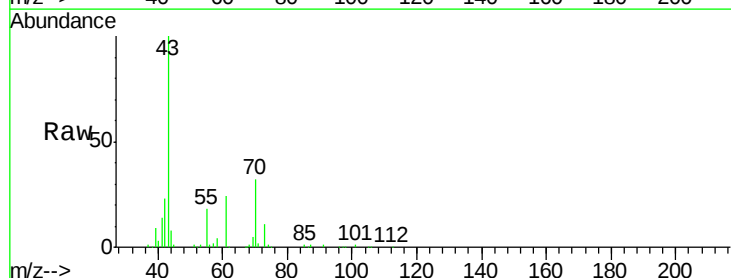
Ion Ratio Lower Upper

43 100

70 32.1 29.6 44.4

55 18.5 17.2 25.8

61 23.6 21.8 32.6

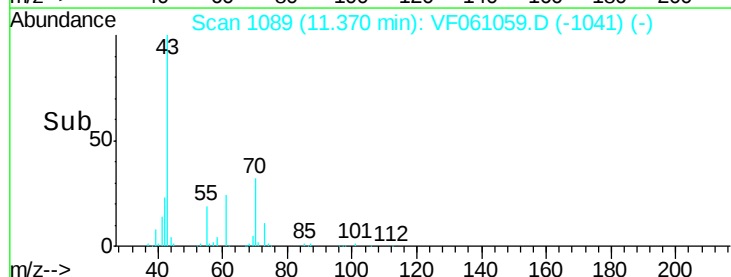
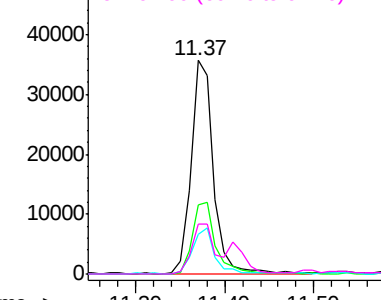


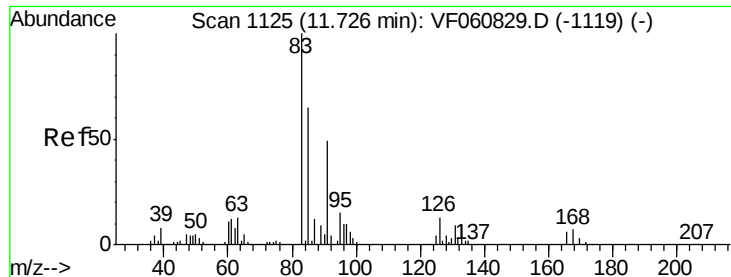
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 24.594 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

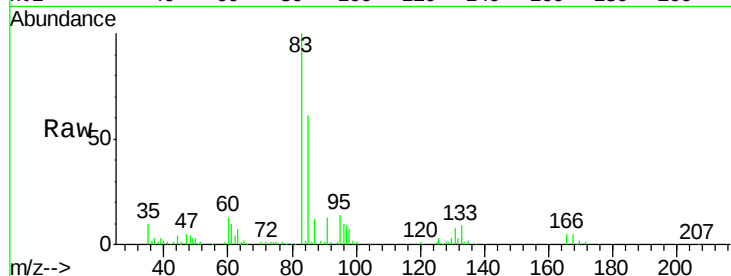
Tgt Ion: 83 Resp: 46068

Ion Ratio Lower Upper

83 100

131 8.3 4.7 14.1

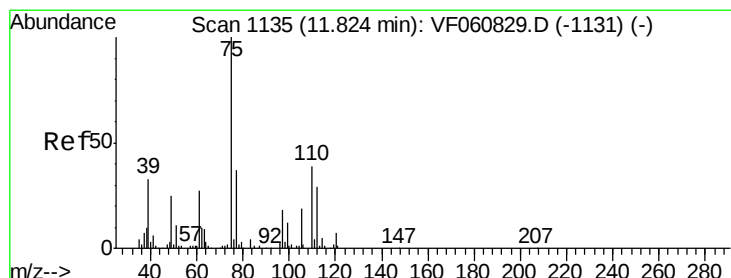
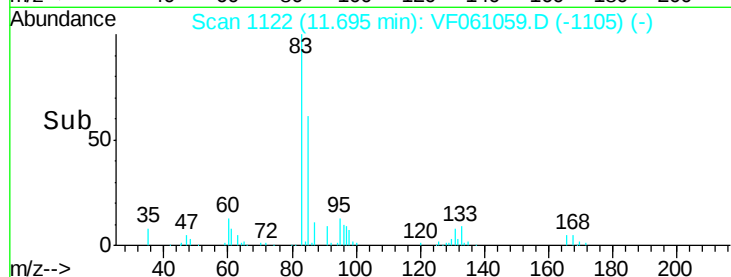
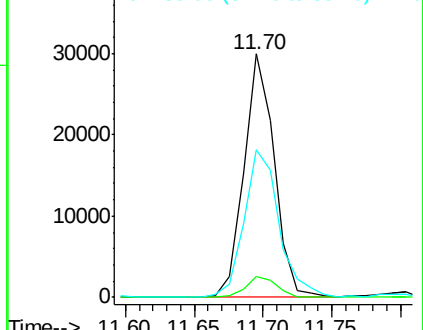
85 60.8 32.6 97.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 25.792 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.03 min

Lab File: VF061059.D

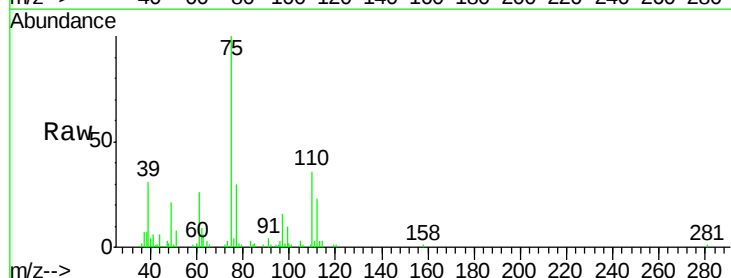
Acq: 18 Dec 2018 13:31

Tgt Ion: 75 Resp: 35116

Ion Ratio Lower Upper

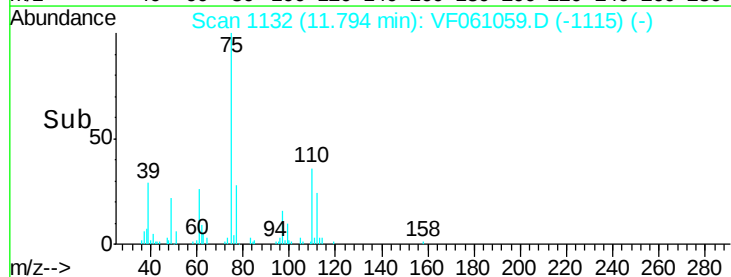
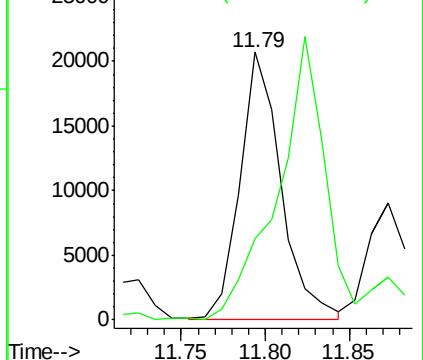
75 100

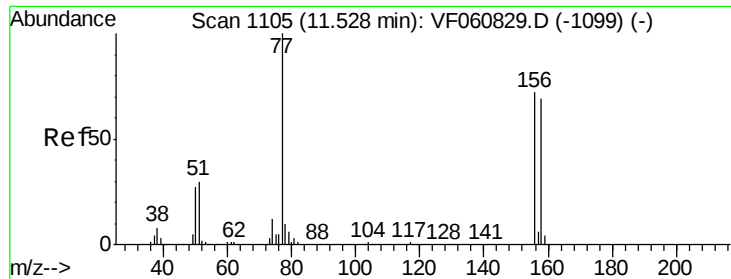
77 30.3 18.4 55.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

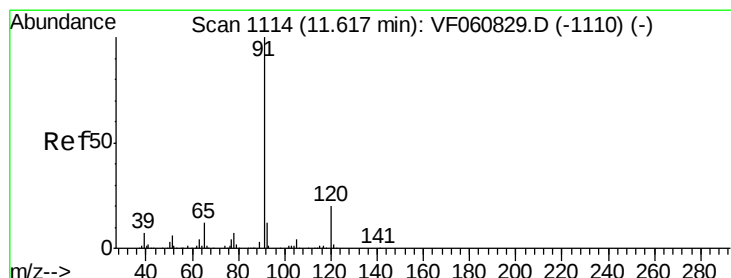
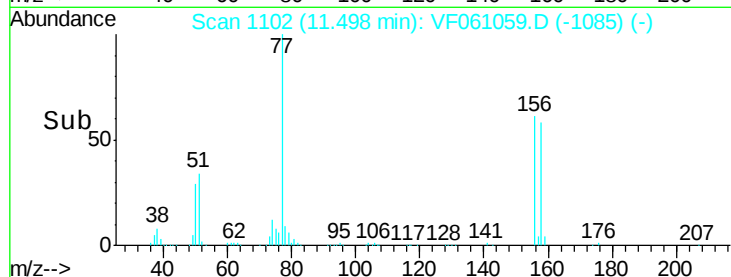
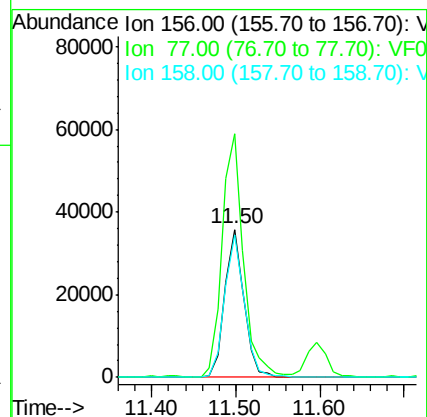
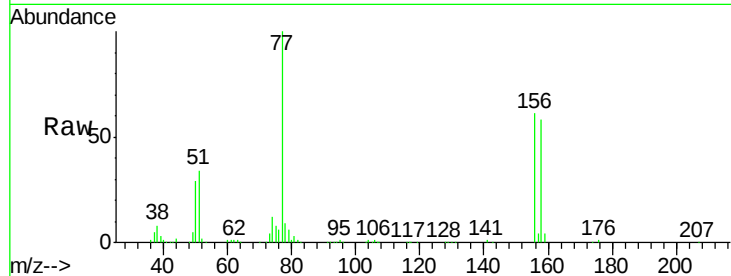




#77  
Bromobenzene  
Concen: 22.840 ug/l  
RT: 11.50 min Scan# 1102  
Delta R.T. -0.03 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

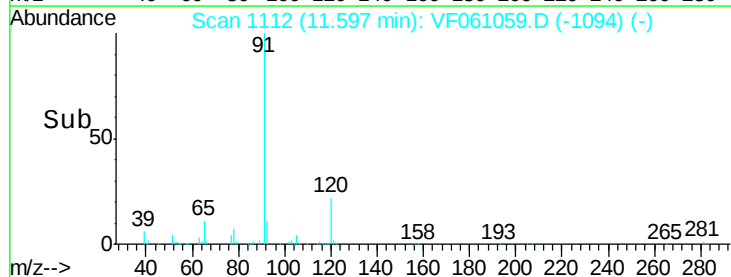
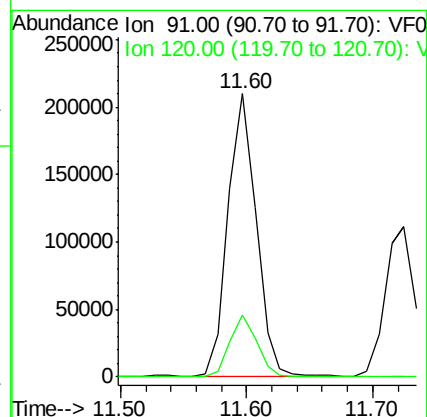
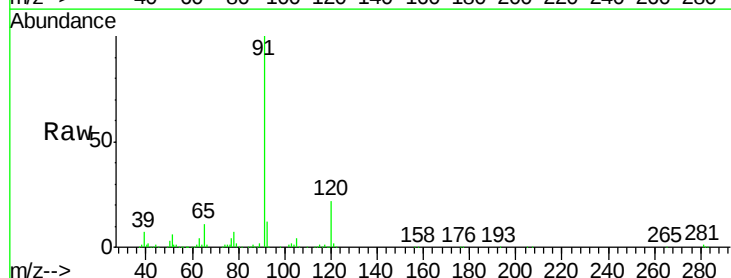
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

Tgt Ion:156 Resp: 56992  
Ion Ratio Lower Upper  
156 100  
77 164.7 69.7 209.0  
158 96.3 47.8 143.4



#78  
n-propylbenzene  
Concen: 24.552 ug/l  
RT: 11.60 min Scan# 1112  
Delta R.T. -0.02 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion: 91 Resp: 327244  
Ion Ratio Lower Upper  
91 100  
120 21.7 10.3 30.8

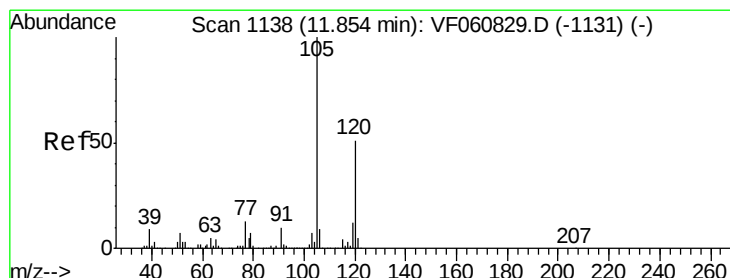
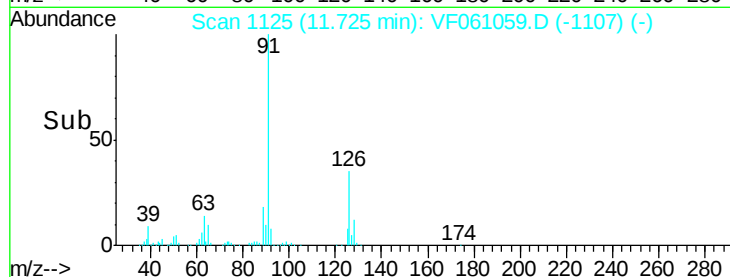
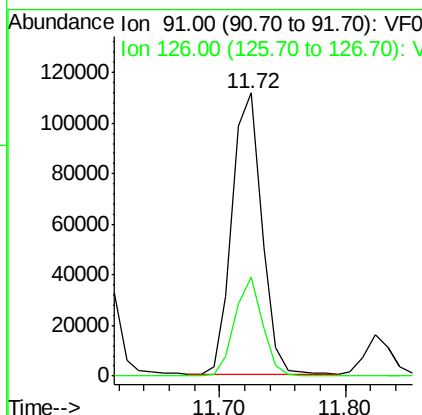
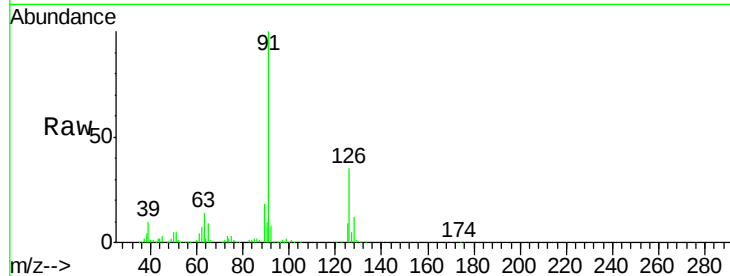




#79  
 2-Chlorotoluene  
 Concen: 23.844 ug/l  
 RT: 11.72 min Scan# 1125  
 Delta R.T. -0.02 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

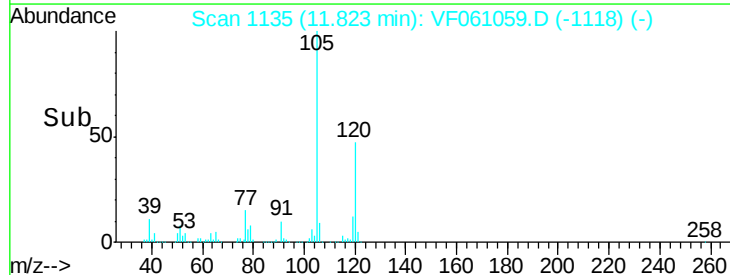
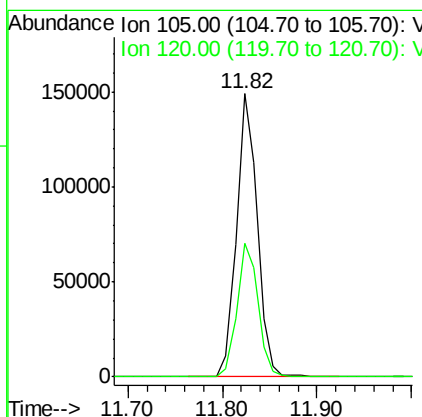
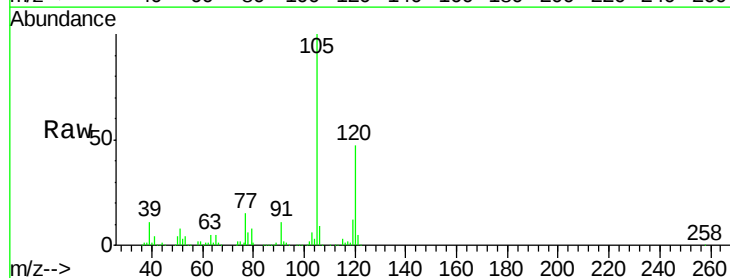
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

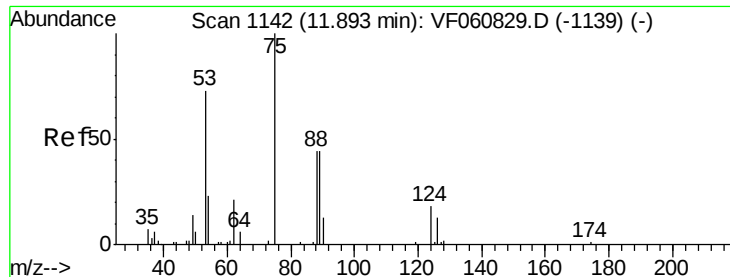
Tgt Ion: 91 Resp: 182230  
 Ion Ratio Lower Upper  
 91 100  
 126 34.8 15.9 47.6



#80  
 1,3,5-Trimethylbenzene  
 Concen: 24.606 ug/l  
 RT: 11.82 min Scan# 1135  
 Delta R.T. -0.03 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Tgt Ion: 105 Resp: 227355  
 Ion Ratio Lower Upper  
 105 100  
 120 47.4 25.8 77.3





#81

trans-1,4-Dichloro-2-butene

Concen: 23.824 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

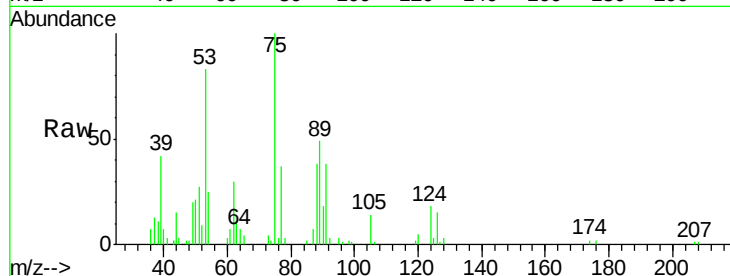
Tgt Ion: 75 Resp: 15893

Ion Ratio Lower Upper

75 100

53 83.4 65.9 98.9

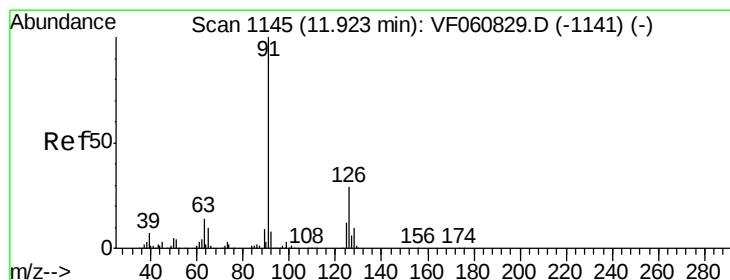
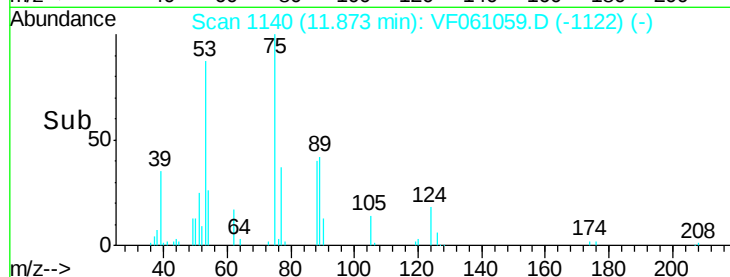
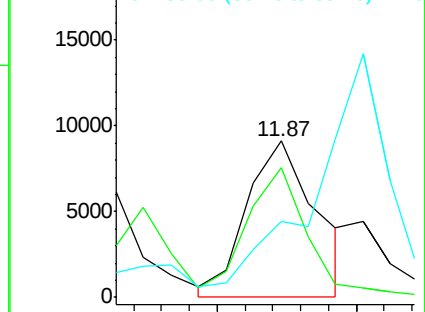
89 48.8 38.8 58.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 24.423 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.02 min

Lab File: VF061059.D

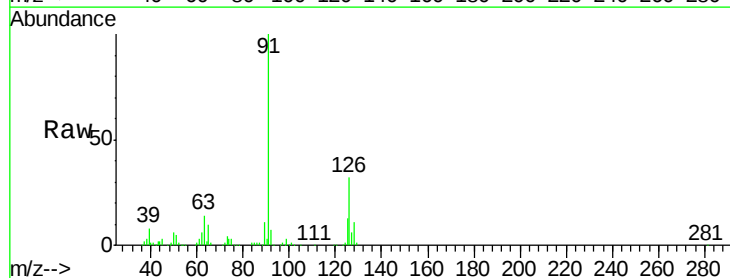
Acq: 18 Dec 2018 13:31

Tgt Ion: 91 Resp: 196431

Ion Ratio Lower Upper

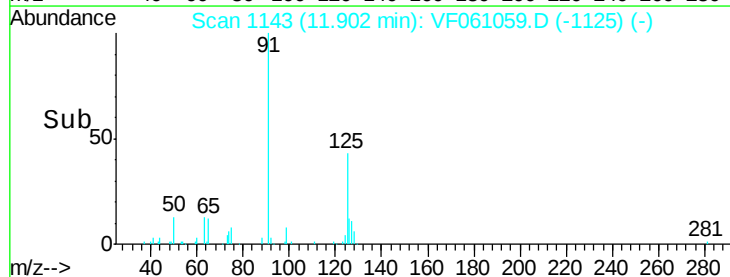
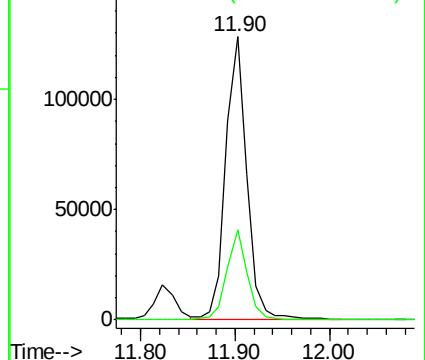
91 100

126 31.9 14.8 44.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

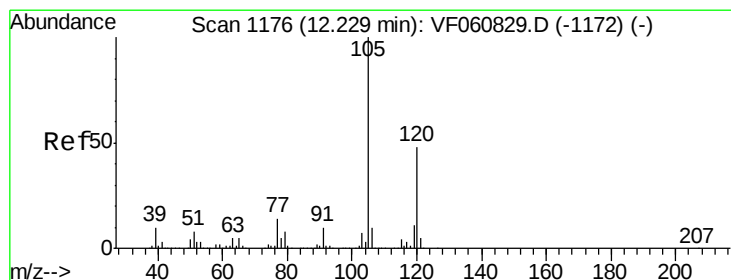
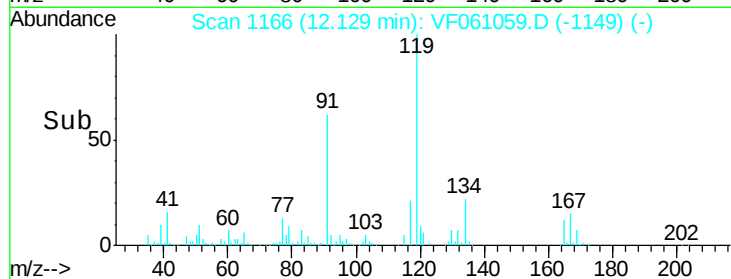
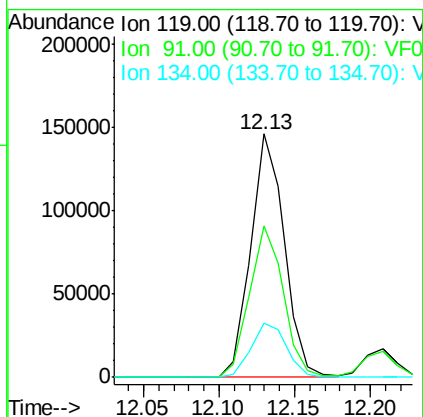
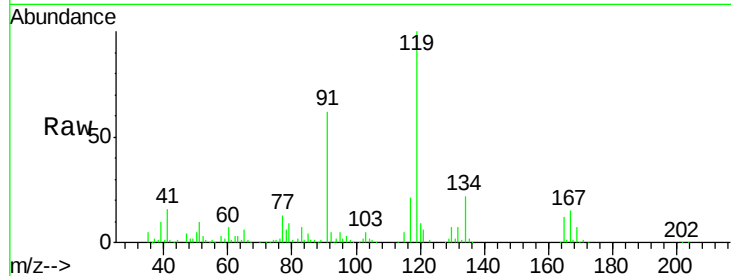




#83  
 tert-Butylbenzene  
 Concen: 24.093 ug/l  
 RT: 12.13 min Scan# 1166  
 Delta R.T. -0.03 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

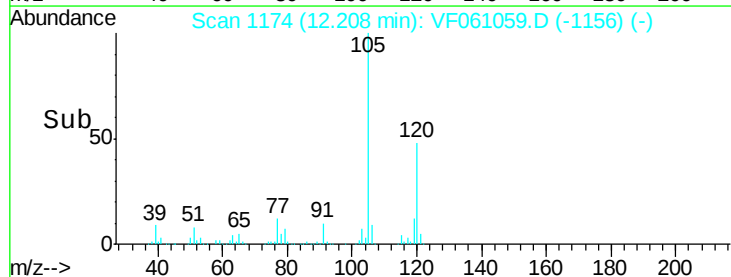
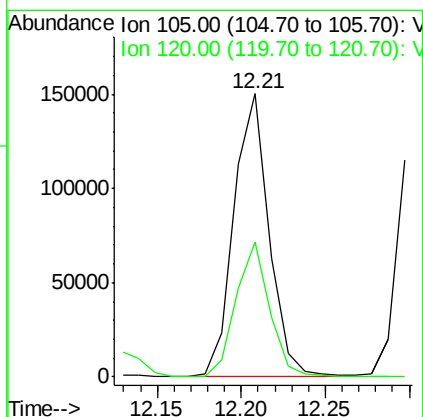
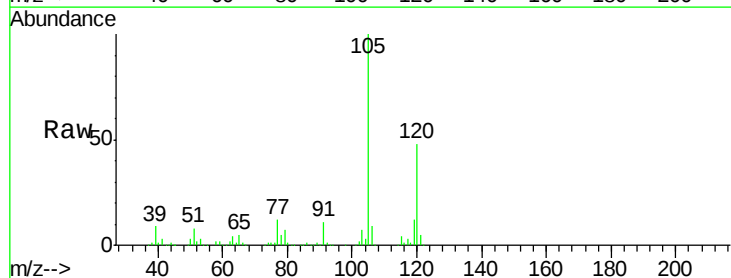
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

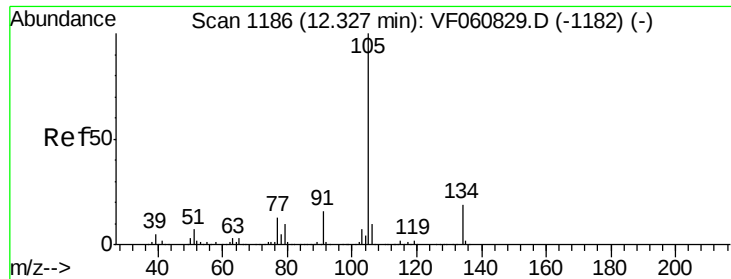
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 62.3  | 30.1  | 90.3  |
| 134     | 22.2  | 12.6  | 37.8  |



#84  
 1,2,4-Trimethylbenzene  
 Concen: 23.555 ug/l  
 RT: 12.21 min Scan# 1174  
 Delta R.T. -0.02 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 47.9  | 23.8  | 71.5  |

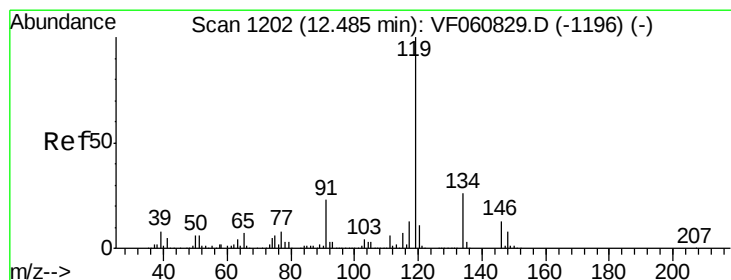
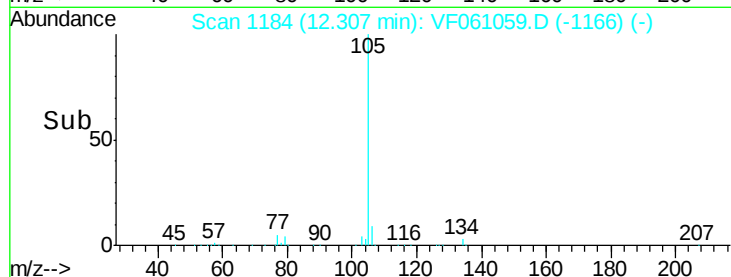
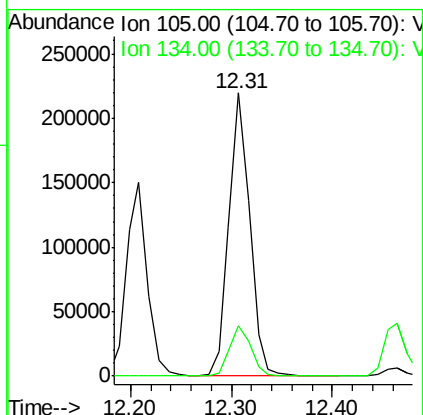
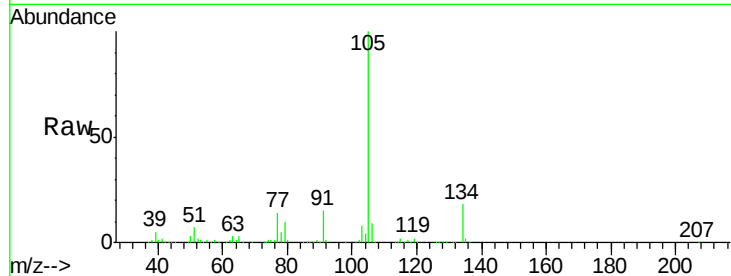




#85  
 sec-Butylbenzene  
 Concen: 24.505 ug/l  
 RT: 12.31 min Scan# 1184  
 Delta R.T. -0.02 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

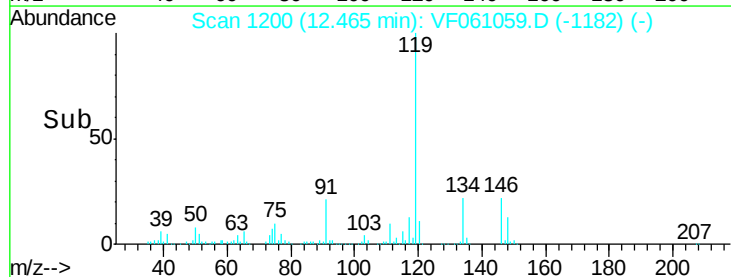
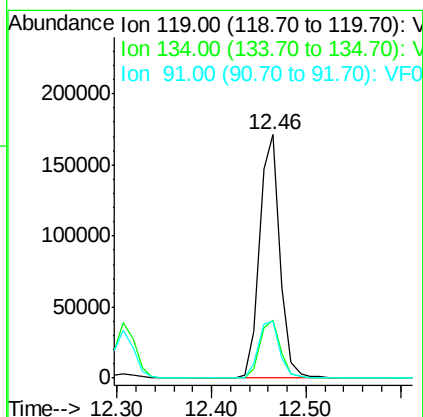
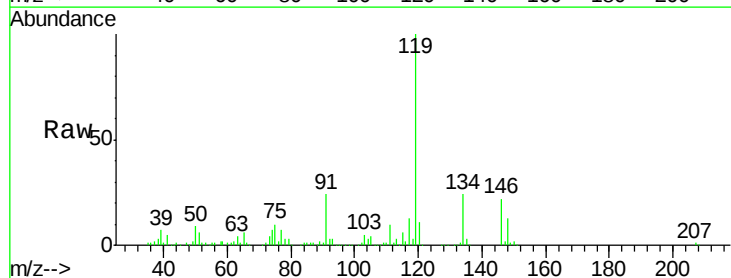
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

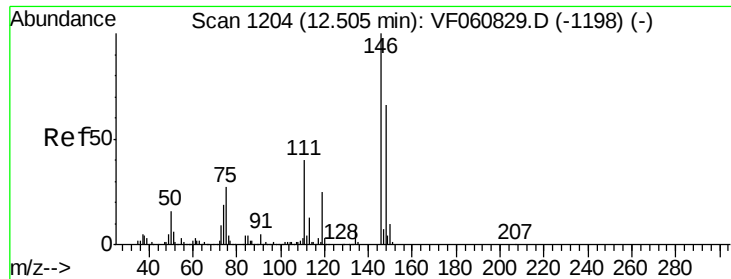
Tgt Ion:105 Resp: 315724  
 Ion Ratio Lower Upper  
 105 100  
 134 17.7 9.5 28.5



#86  
 p-Isopropyltoluene  
 Concen: 23.727 ug/l  
 RT: 12.46 min Scan# 1200  
 Delta R.T. -0.02 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Tgt Ion:119 Resp: 256303  
 Ion Ratio Lower Upper  
 119 100  
 134 24.0 12.9 38.6  
 91 23.5 11.8 35.3

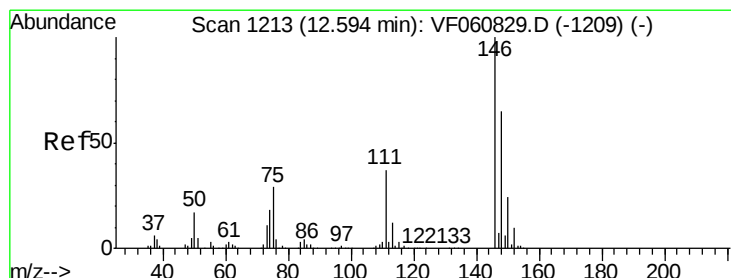
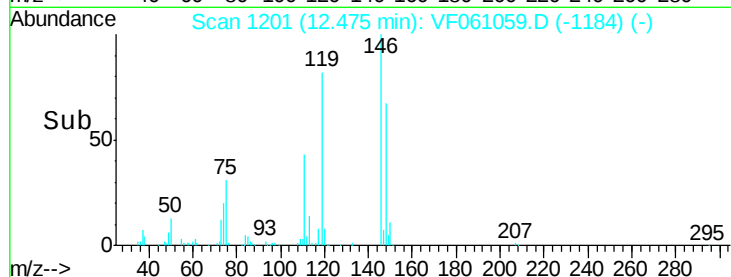
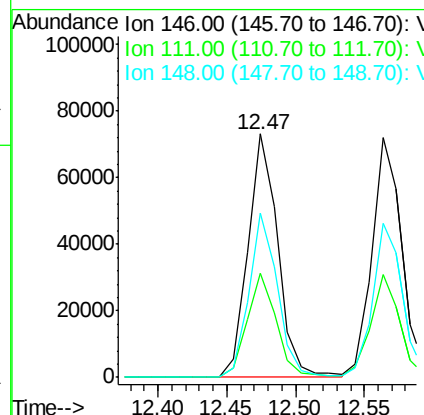
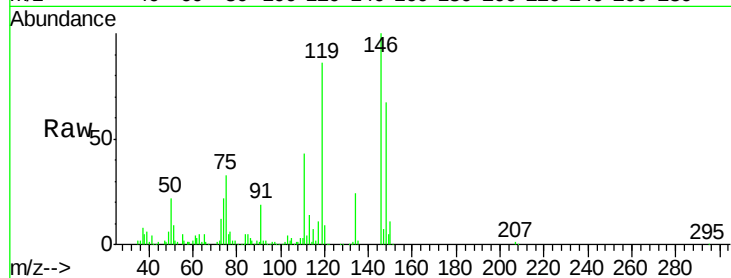




#87  
 1,3-Dichlorobenzene  
 Concen: 23.434 ug/l  
 RT: 12.47 min Scan# 1201  
 Delta R.T. -0.03 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

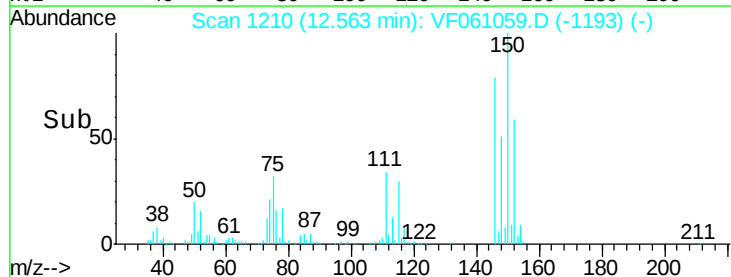
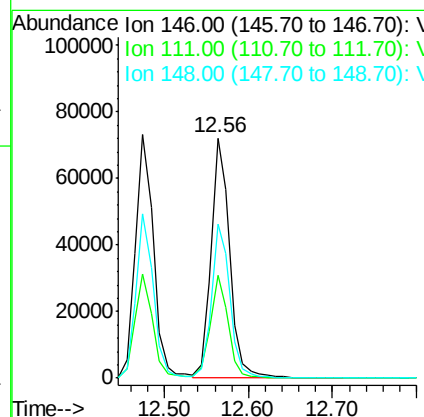
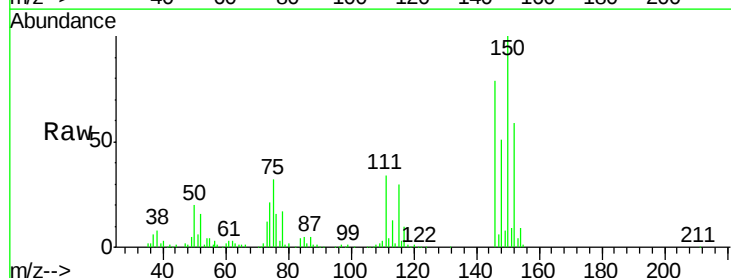
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

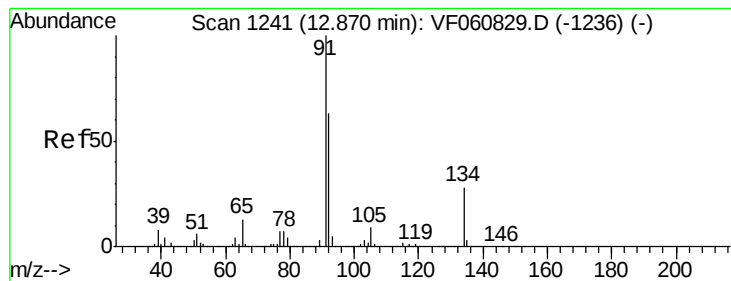
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.7  | 20.0  | 59.9  |
| 148     | 67.3  | 32.9  | 98.6  |



#88  
 1,4-Dichlorobenzene  
 Concen: 24.042 ug/l  
 RT: 12.56 min Scan# 1210  
 Delta R.T. -0.03 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.8  | 18.9  | 56.7  |
| 148     | 64.0  | 32.3  | 96.9  |





#89

n-Butylbenzene

Concen: 24.653 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.02 min

Lab File: VF061059.D

Acq: 18 Dec 2018 13:31

Instrument :

MSVOA\_F

ClientSampleId :

VF1218SBS02

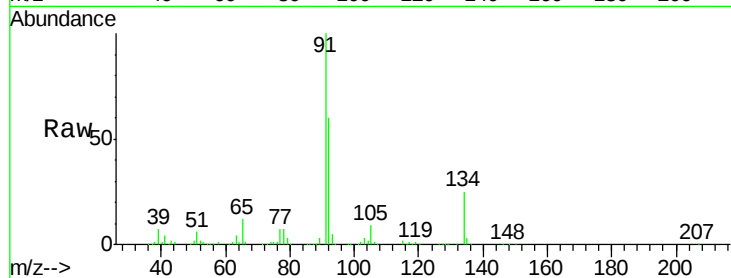
Tgt Ion: 91 Resp: 269276

Ion Ratio Lower Upper

91 100

92 60.5 31.6 94.7

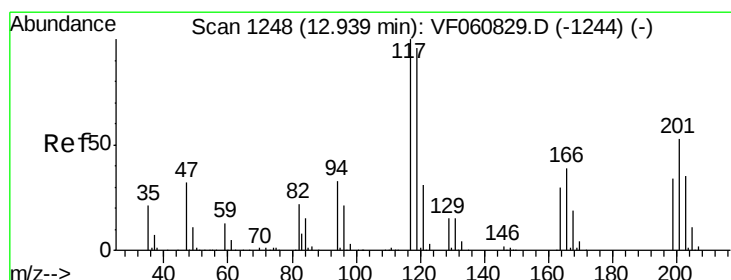
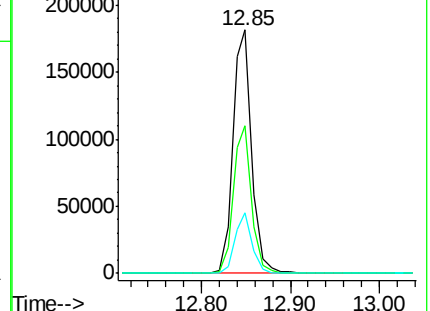
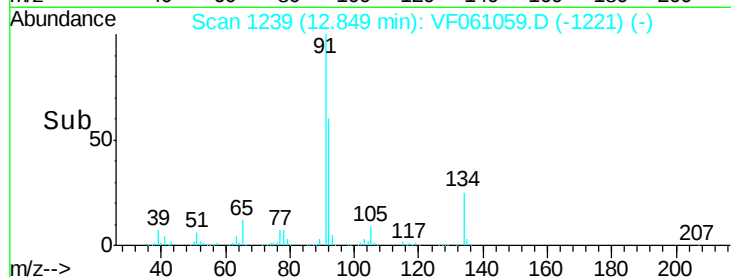
134 25.1 13.8 41.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 23.006 ug/l

RT: 12.92 min Scan# 1246

Delta R.T. -0.02 min

Lab File: VF061059.D

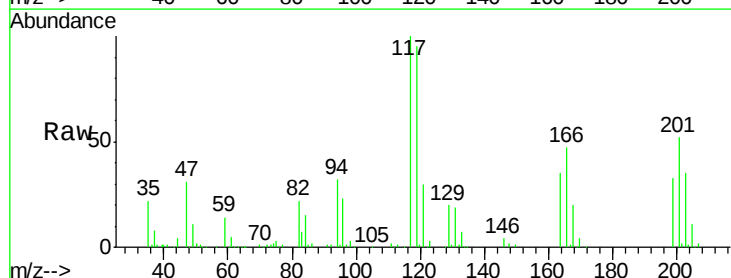
Acq: 18 Dec 2018 13:31

Tgt Ion: 117 Resp: 59842

Ion Ratio Lower Upper

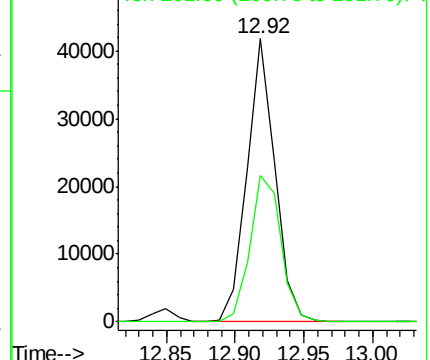
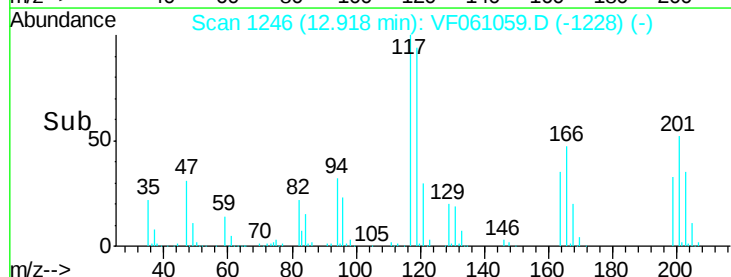
117 100

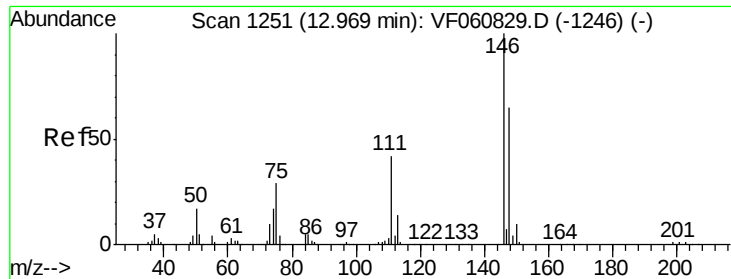
201 51.6 26.7 80.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

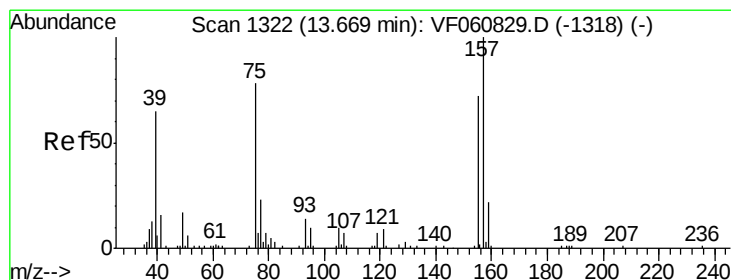
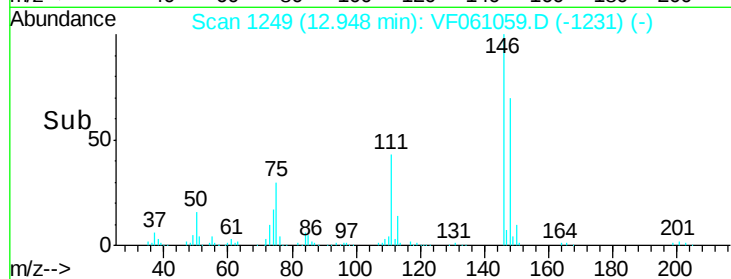
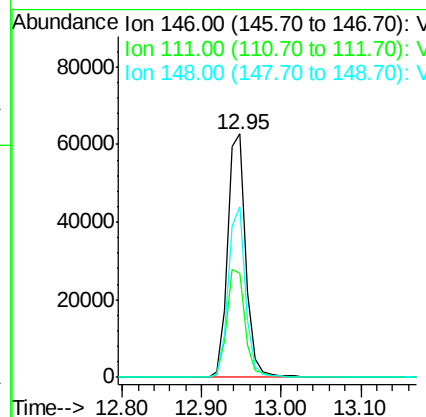
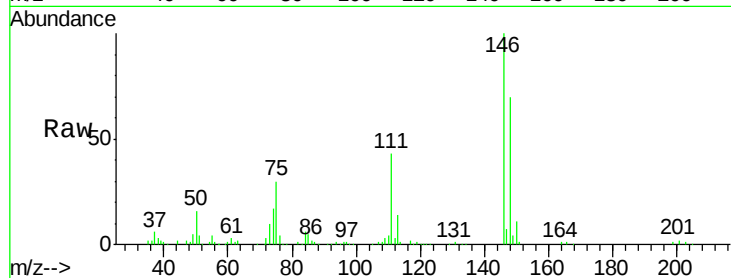




#91  
 1,2-Dichlorobenzene  
 Concen: 22.597 ug/l  
 RT: 12.95 min Scan# 1249  
 Delta R.T. -0.02 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

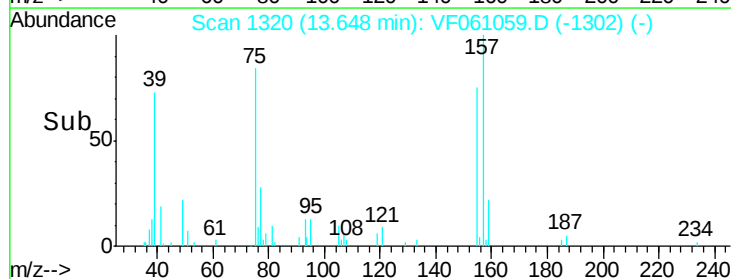
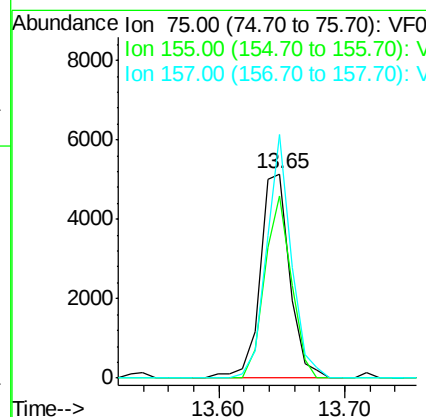
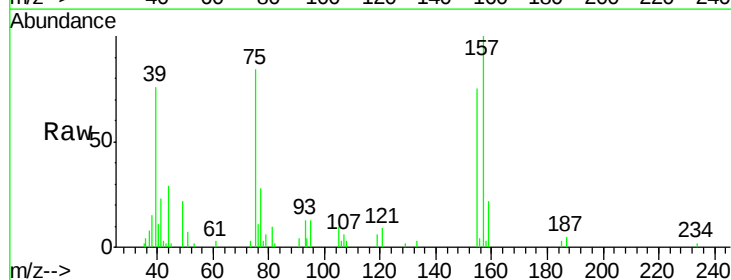
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

Tgt Ion: 146 Resp: 101570  
 Ion Ratio Lower Upper  
 146 100  
 111 42.6 21.2 63.6  
 148 70.2 32.5 97.5



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 23.349 ug/l  
 RT: 13.65 min Scan# 1320  
 Delta R.T. -0.02 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Tgt Ion: 75 Resp: 8456  
 Ion Ratio Lower Upper  
 75 100  
 155 89.3 45.6 136.9  
 157 119.2 63.8 191.5

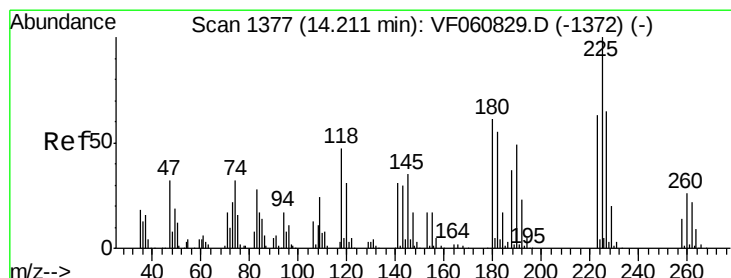
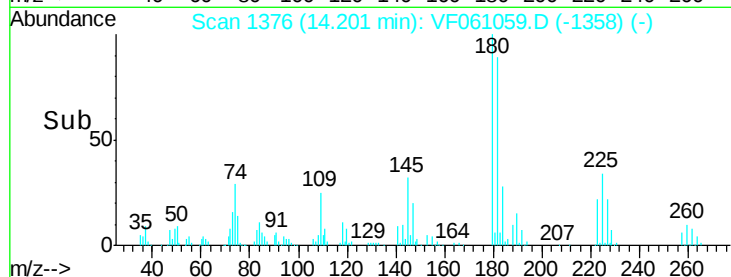
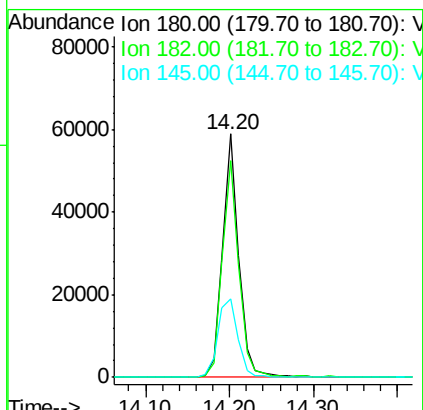
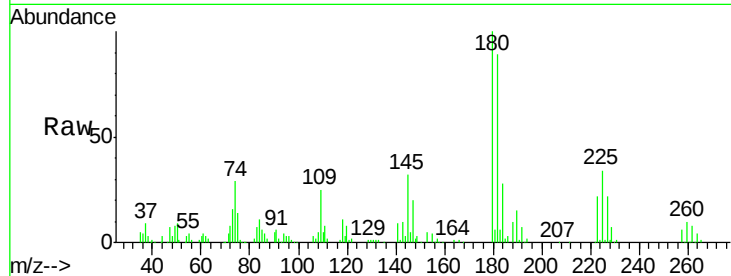




#93  
 1,2,4-Trichlorobenzene  
 Concen: 25.244 ug/l  
 RT: 14.20 min Scan# 1376  
 Delta R.T. -0.02 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

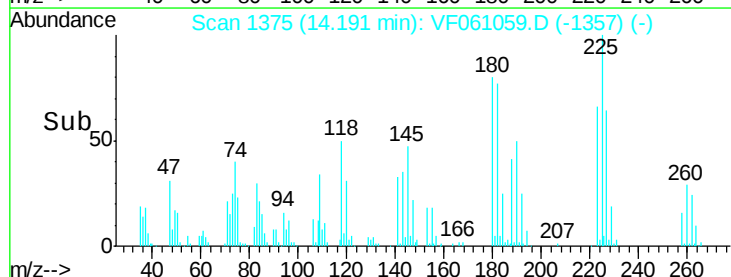
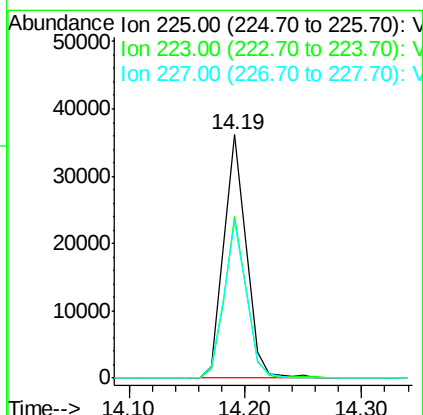
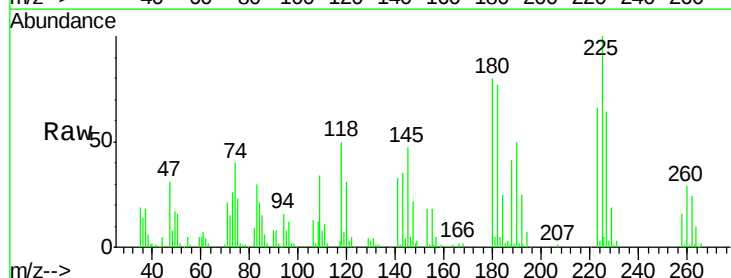
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1218SBS02

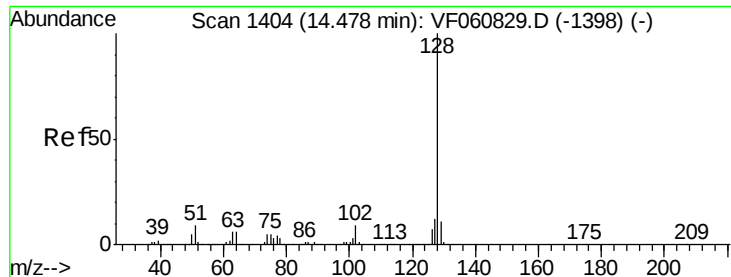
Tgt Ion:180 Resp: 79281  
 Ion Ratio Lower Upper  
 180 100  
 182 88.8 48.5 145.5  
 145 32.1 18.1 54.3



#94  
 Hexachlorobutadiene  
 Concen: 23.401 ug/l  
 RT: 14.19 min Scan# 1375  
 Delta R.T. -0.02 min  
 Lab File: VF061059.D  
 Acq: 18 Dec 2018 13:31

Tgt Ion:225 Resp: 48991  
 Ion Ratio Lower Upper  
 225 100  
 223 66.5 31.4 94.3  
 227 64.3 32.5 97.5

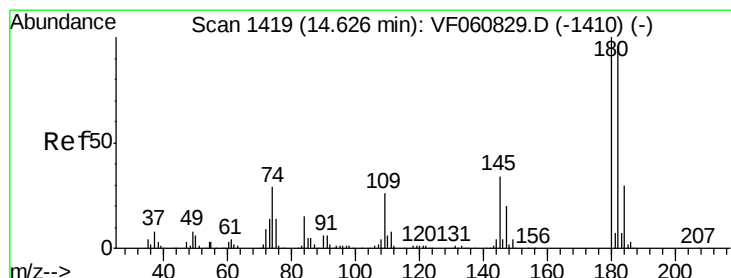
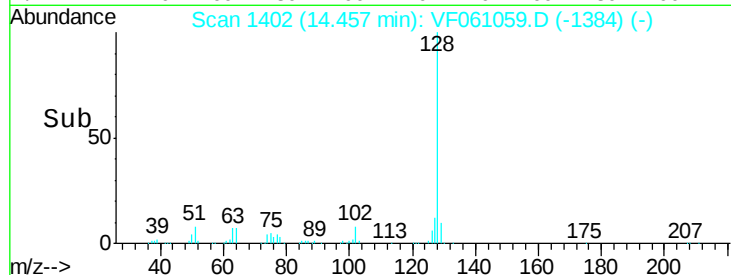
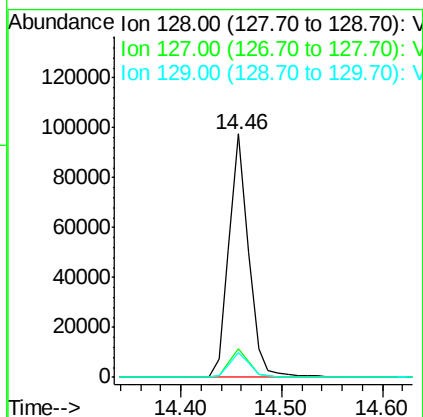
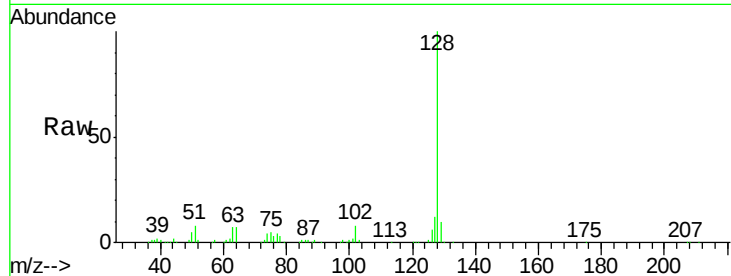




#95  
Naphthalene  
Concen: 19.693 ug/l  
RT: 14.46 min Scan# 1402  
Delta R.T. -0.02 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1218SBS02

Tgt Ion:128 Resp: 132969  
Ion Ratio Lower Upper  
128 100  
127 11.5 9.9 14.9  
129 10.3 9.1 13.7



#96  
1,2,3-Trichlorobenzene  
Concen: 23.440 ug/l  
RT: 14.61 min Scan# 1417  
Delta R.T. -0.02 min  
Lab File: VF061059.D  
Acq: 18 Dec 2018 13:31

Tgt Ion:180 Resp: 68354  
Ion Ratio Lower Upper  
180 100  
182 95.7 47.9 143.8  
145 35.6 17.2 51.5

