

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
 Data File : VF060742.D  
 Acq On : 15 Nov 2018 12:32  
 Operator : VA/AP  
 Sample : VF1115SBS01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBS01

Quant Time: Nov 15 13:57:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 14 03:11:14 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.85  | 168  | 228258   | 50.00 | ug/l  | -0.04    |
| 34) 1,4-Difluorobenzene    | 5.57  | 114  | 401343   | 50.00 | ug/l  | -0.05    |
| 63) Chlorobenzene-d5       | 9.76  | 117  | 369596   | 50.00 | ug/l  | -0.04    |
| 72) 1,4-Dichlorobenzene-d4 | 12.54 | 152  | 196972   | 50.00 | ug/l  | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response   | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|------------|--------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 4.82  | 65   | 115035     | 44.18  | ug/l  | -0.04    |
| Spiked Amount 50.000        |       |      | Recovery = | 88.36% |       |          |
| 35) Dibromofluoromethane    | 4.09  | 113  | 136180     | 45.14  | ug/l  | -0.04    |
| Spiked Amount 50.000        |       |      | Recovery = | 90.28% |       |          |
| 50) Toluene-d8              | 7.54  | 98   | 372277     | 47.94  | ug/l  | -0.03    |
| Spiked Amount 50.000        |       |      | Recovery = | 95.88% |       |          |
| 62) 4-Bromofluorobenzene    | 11.39 | 95   | 176037     | 49.25  | ug/l  | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery = | 98.50% |       |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.96 | 85   | 83841    | 20.52  | ug/l   | 100    |
| 3) Chloromethane              | 1.09 | 50   | 59498    | 23.49  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.14 | 62   | 51955    | 22.93  | ug/l   | 89     |
| 5) Bromomethane               | 1.31 | 94   | 29433    | 20.45  | ug/l   | 99     |
| 6) Chloroethane               | 1.36 | 64   | 18810    | 21.21  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 1.48 | 101  | 103823   | 20.72  | ug/l   | 91     |
| 8) Diethyl Ether              | 1.62 | 74   | 14195    | 22.11  | ug/l   | 80     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.81 | 101  | 55187    | 23.37  | ug/l   | 98     |
| 10) Methyl Iodide             | 1.87 | 142  | 86500    | 22.83  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 2.55 | 59   | 12500    | 105.49 | ug/l # | 82     |
| 12) 1,1-Dichloroethene        | 1.78 | 96   | 42154    | 22.64  | ug/l   | 90     |
| 13) Acrolein                  | 1.98 | 56   | 12656    | 116.82 | ug/l   | 99     |
| 14) Allyl chloride            | 2.08 | 41   | 71578    | 21.94  | ug/l   | 90     |
| 15) Acrylonitrile             | 2.92 | 53   | 30419    | 120.48 | ug/l   | 91     |
| 16) Acetone                   | 2.22 | 43   | 52631    | 94.58  | ug/l   | 95     |
| 17) Carbon Disulfide          | 1.82 | 76   | 127571   | 22.67  | ug/l # | 92     |
| 18) Methyl Acetate            | 2.33 | 43   | 21109    | 23.10  | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 2.42 | 73   | 95170    | 21.30  | ug/l   | 95     |
| 20) Methylene Chloride        | 2.17 | 84   | 23613    | 10.51  | ug/l   | 89     |
| 21) trans-1,2-Dichloroethene  | 2.30 | 96   | 44196    | 22.72  | ug/l   | 94     |
| 22) Diisopropyl ether         | 2.78 | 45   | 149602   | 23.75  | ug/l   | 98     |
| 23) Vinyl Acetate             | 3.17 | 43   | 363215   | 122.46 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 2.85 | 63   | 91546    | 24.01  | ug/l   | 98     |
| 25) 2-Butanone                | 4.30 | 43   | 98916    | 108.07 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 3.58 | 77   | 63143    | 21.04  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 3.46 | 96   | 72559    | 21.92  | ug/l   | 90     |
| 28) Bromochloromethane        | 3.70 | 49   | 45396    | 22.91  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 4.05 | 42   | 39530    | 104.70 | ug/l   | 98     |
| 30) Chloroform                | 3.84 | 83   | 148365   | 24.25  | ug/l   | 96     |
| 31) Cyclohexane               | 3.68 | 56   | 102262   | 22.10  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 4.07 | 97   | 100542   | 20.87  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 4.26 | 75   | 94746    | 20.36  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.08 | 43   | 39489    | 22.82  | ug/l   | 93     |
| 38) Carbon Tetrachloride      | 3.97 | 117  | 92210    | 20.42  | ug/l   | 96     |

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 Data File : VF060742.D  
 Acq On : 15 Nov 2018 12:32  
 Operator : VA/AP  
 Sample : VF1115SBS01  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBS01

Quant Time: Nov 15 13:57:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 14 03:11:14 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 5.44  | 83   | 110558   | 20.47  | ug/l   | 99       |
| 40) Benzene                    | 4.61  | 78   | 229671   | 22.14  | ug/l   | 98       |
| 41) Methacrylonitrile          | 4.73  | 41   | 23662    | 23.34  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 4.92  | 62   | 71861    | 20.04  | ug/l   | 91       |
| 43) Isopropyl Acetate          | 6.93  | 43   | 55054    | 23.99  | ug/l # | 100      |
| 44) Trichloroethene            | 5.48  | 130  | 67917    | 20.75  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 6.21  | 63   | 56979    | 21.10  | ug/l   | 100      |
| 46) Dibromomethane             | 6.07  | 93   | 36730    | 20.61  | ug/l   | 98       |
| 47) Bromodichloromethane       | 6.36  | 83   | 96930    | 21.30  | ug/l   | 98       |
| 48) Methyl methacrylate        | 6.70  | 41   | 33349    | 21.96  | ug/l   | 93       |
| 49) 1,4-Dioxane                | 6.69  | 88   | 6162     | 433.90 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone       | 8.24  | 43   | 188368   | 113.51 | ug/l   | 96       |
| 52) Toluene                    | 7.61  | 92   | 140429   | 20.20  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 8.26  | 75   | 72656    | 19.93  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 7.28  | 75   | 97181    | 20.52  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 8.47  | 97   | 39815    | 20.04  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 8.60  | 69   | 51128    | 22.66  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 8.84  | 76   | 73806    | 21.44  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 7.61  | 63   | 20630    | 100.10 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.47  | 43   | 140779   | 120.72 | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.69  | 129  | 57807    | 20.42  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 8.97  | 107  | 44296    | 21.20  | ug/l   | 94       |
| 64) Tetrachloroethene          | 8.13  | 164  | 57451    | 19.63  | ug/l   | 96       |
| 65) Chlorobenzene              | 9.78  | 112  | 156980   | 21.05  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 9.91  | 131  | 64760    | 19.91  | ug/l   | 100      |
| 67) Ethyl Benzene              | 9.88  | 91   | 287526   | 20.45  | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.11 | 106  | 221991   | 44.19  | ug/l   | 96       |
| 69) o-Xylene                   | 10.69 | 106  | 121694   | 21.54  | ug/l   | 96       |
| 70) Styrene                    | 10.77 | 104  | 164266   | 21.43  | ug/l   | 99       |
| 71) Bromoform                  | 10.75 | 173  | 31221    | 21.34  | ug/l # | 92       |
| 73) Isopropylbenzene           | 11.11 | 105  | 352322   | 22.22  | ug/l   | 94       |
| 74) N-amyl acetate             | 11.35 | 43   | 90509    | 25.08  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.68 | 83   | 56327    | 21.49  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.78 | 75   | 42789    | 21.98  | ug/l   | 98       |
| 77) Bromobenzene               | 11.48 | 156  | 75811    | 22.97  | ug/l   | 92       |
| 78) n-propylbenzene            | 11.58 | 91   | 418690   | 22.64  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 11.71 | 91   | 228096   | 21.22  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.81 | 105  | 287859   | 22.87  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-buten | 11.86 | 75   | 26801    | 28.02  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.89 | 91   | 231961   | 21.07  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.11 | 119  | 284050   | 21.25  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.19 | 105  | 279493   | 21.47  | ug/l   | 96       |
| 85) sec-Butylbenzene           | 12.29 | 105  | 378193   | 20.86  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 12.45 | 119  | 326136   | 21.54  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 12.46 | 146  | 140369   | 21.37  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.56 | 146  | 132052   | 20.92  | ug/l   | 95       |
| 89) n-Butylbenzene             | 12.83 | 91   | 330068   | 21.36  | ug/l   | 95       |
| 90) Hexachloroethane           | 12.90 | 117  | 75954    | 20.51  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 12.93 | 146  | 130624   | 21.12  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.63 | 75   | 10143    | 20.59  | ug/l   | 76       |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
Data File : VF060742.D  
Acq On : 15 Nov 2018 12:32  
Operator : VA/AP  
Sample : VF1115SBSD01  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 6 Sample Multiplier: 1

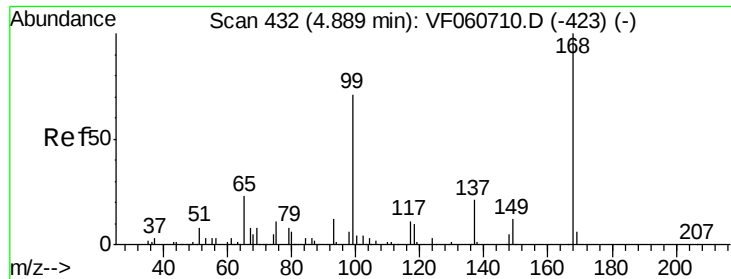
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1115SBSD01

Quant Time: Nov 15 13:57:43 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 14 03:11:14 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.19 | 180  | 93089    | 20.94 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.18 | 225  | 61880    | 21.31 | ug/l  | 95       |
| 95) Naphthalene            | 14.44 | 128  | 165497   | 20.41 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 14.59 | 180  | 83904    | 20.43 | ug/l  | 95       |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

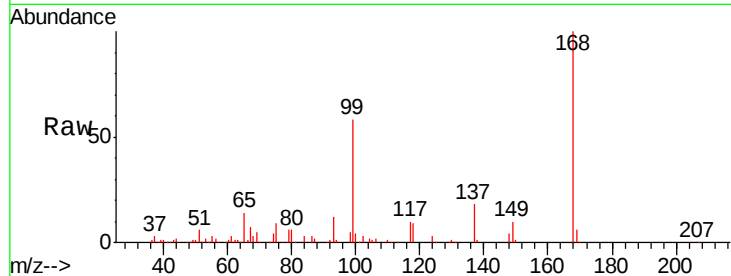
VF1115SBS01

Tgt Ion:168 Resp: 228258

Ion Ratio Lower Upper

168 100

99 57.9 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

60000

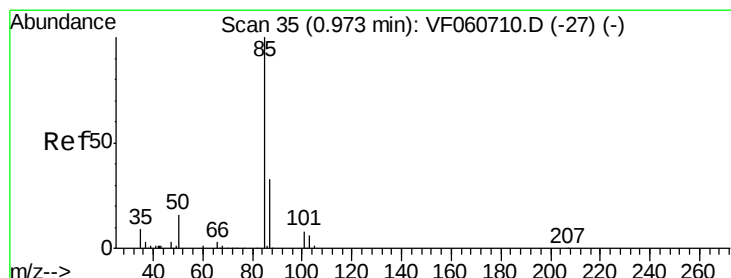
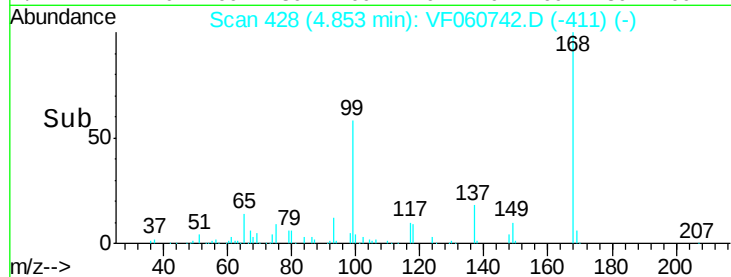
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: 20.52 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.02 min

Lab File: VF060742.D

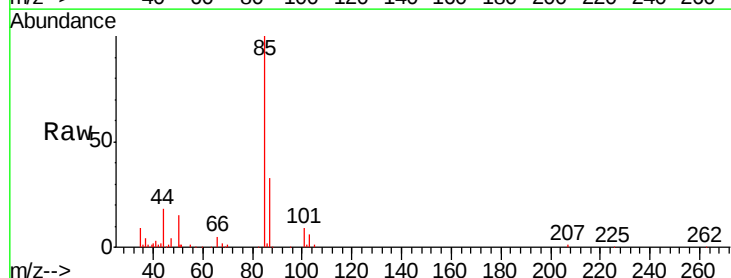
Acq: 15 Nov 2018 12:32

Tgt Ion: 85 Resp: 83841

Ion Ratio Lower Upper

85 100

87 32.6 16.3 48.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

30000

25000

20000

15000

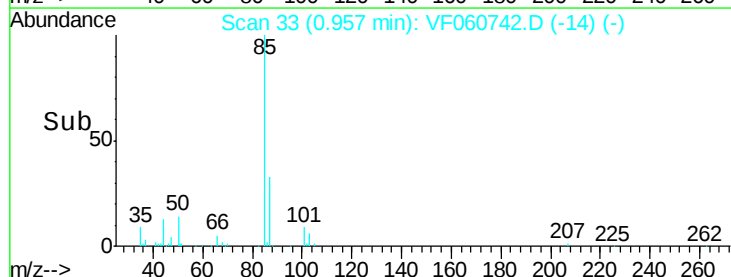
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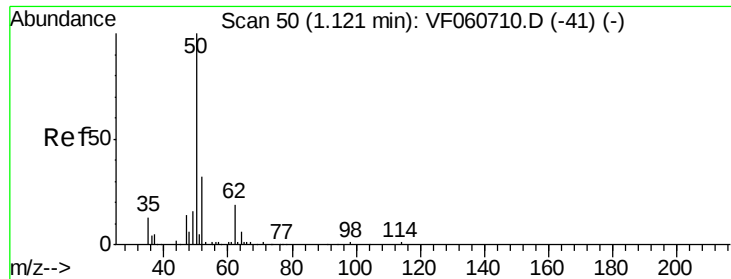
5000

0

0.80 0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 23.49 ug/l

RT: 1.09 min Scan# 46

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

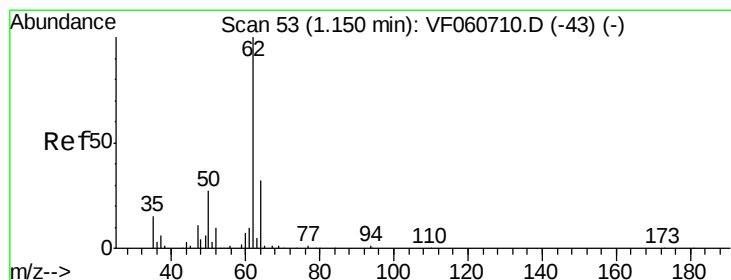
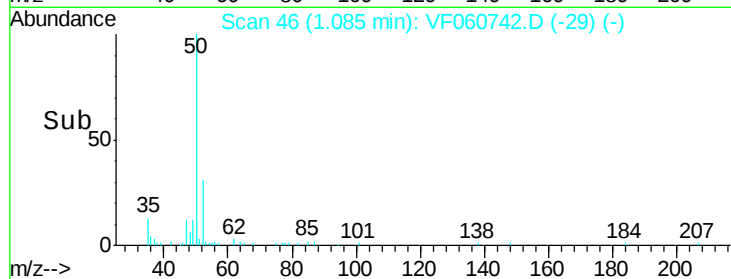
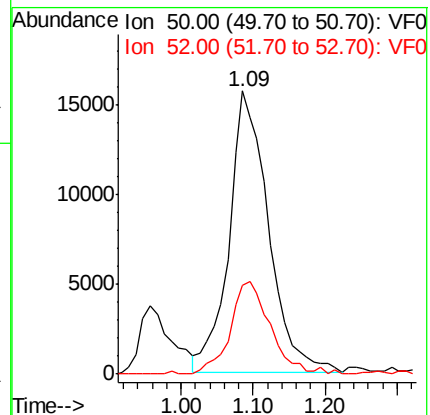
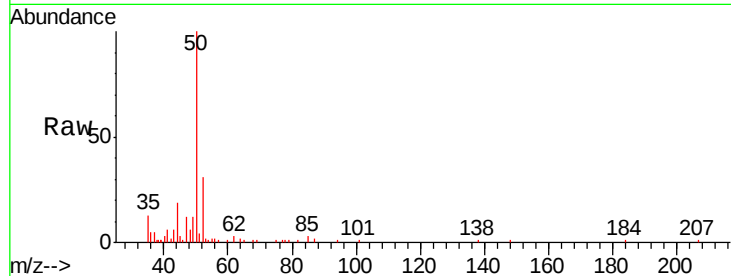
VF1115SBS01

Tgt Ion: 50 Resp: 59498

Ion Ratio Lower Upper

50 100

52 31.2 24.2 36.2



#4

Vinyl Chloride

Concen: 22.93 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF060742.D

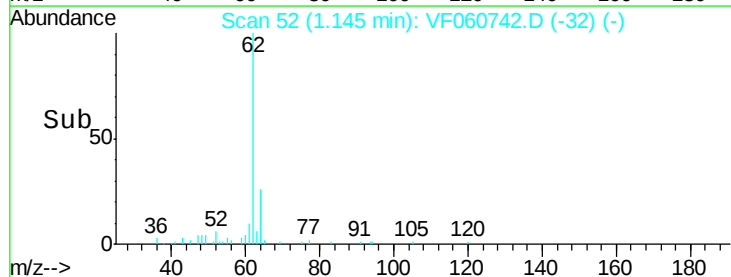
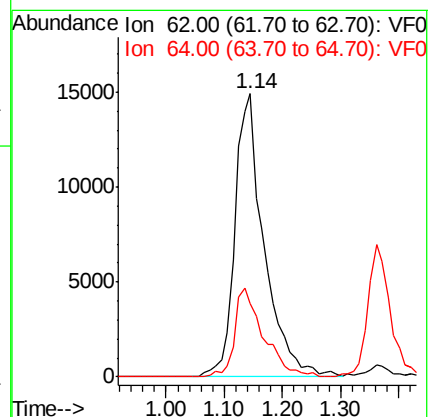
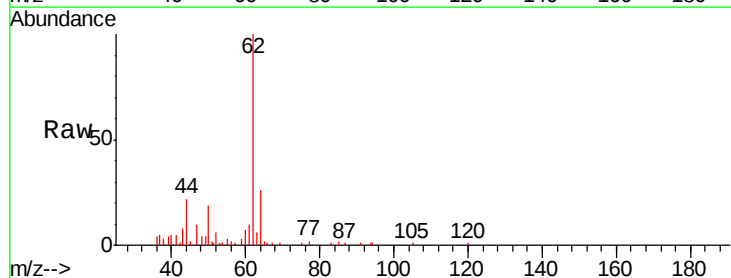
Acq: 15 Nov 2018 12:32

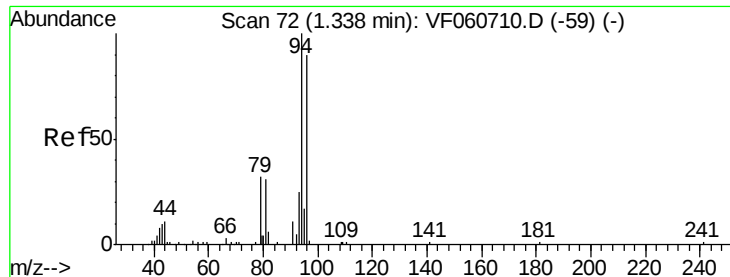
Tgt Ion: 62 Resp: 51955

Ion Ratio Lower Upper

62 100

64 26.1 25.8 38.8





#5

Bromomethane

Concen: 20.45 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

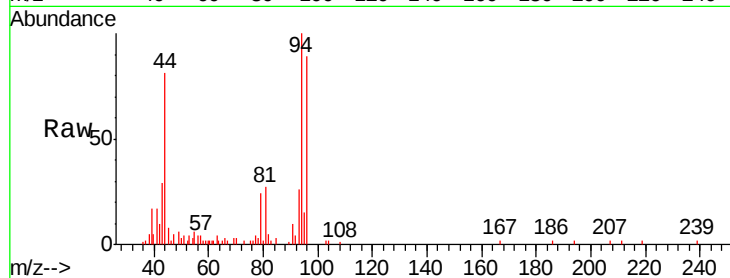
VF1115SBS01

Tgt Ion: 94 Resp: 29433

Ion Ratio Lower Upper

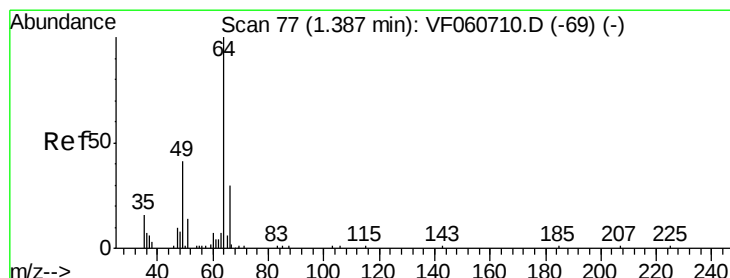
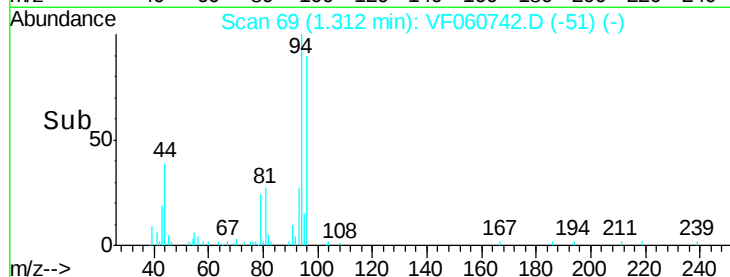
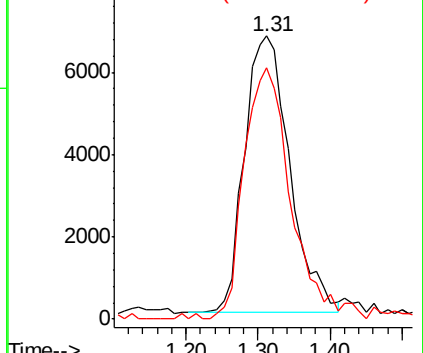
94 100

96 88.7 71.9 107.9



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 21.21 ug/l

RT: 1.36 min Scan# 74

Delta R.T. -0.03 min

Lab File: VF060742.D

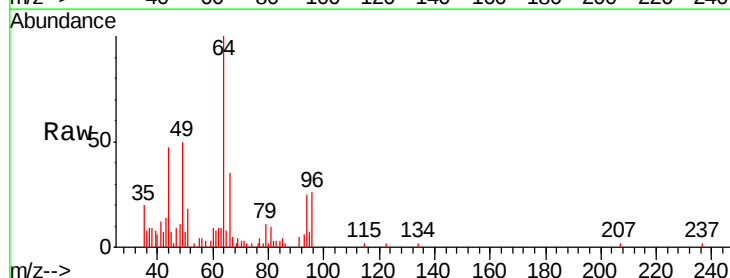
Acq: 15 Nov 2018 12:32

Tgt Ion: 64 Resp: 18810

Ion Ratio Lower Upper

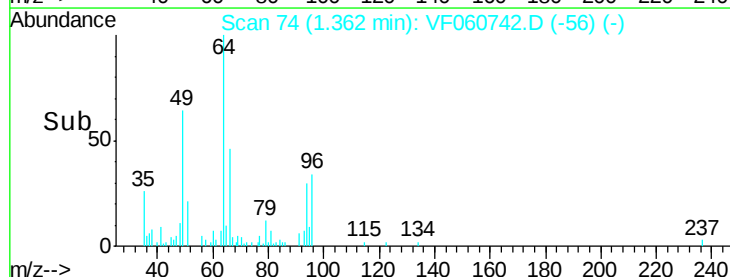
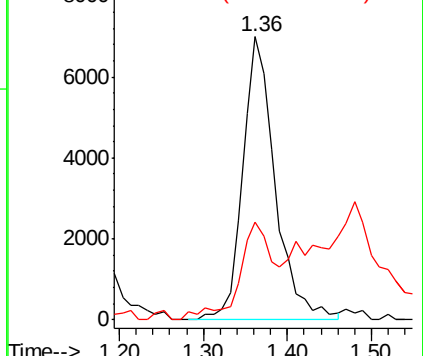
64 100

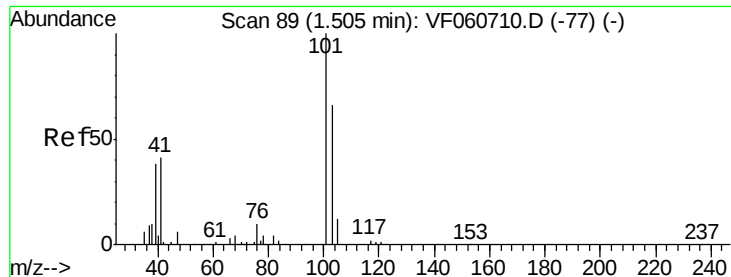
66 34.6 24.8 37.2



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 20.72 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

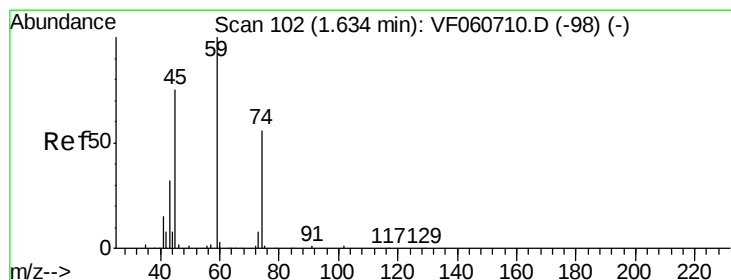
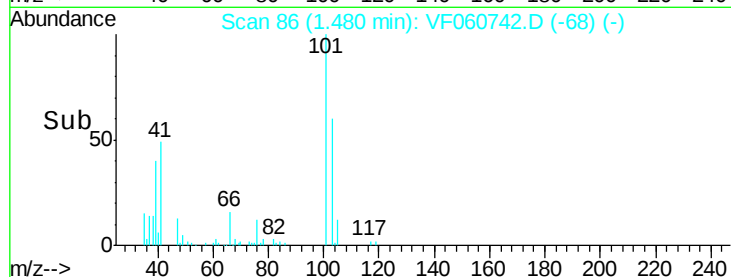
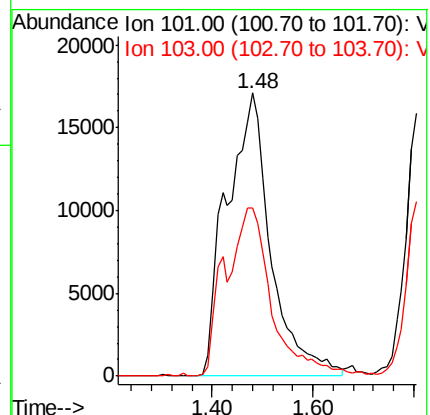
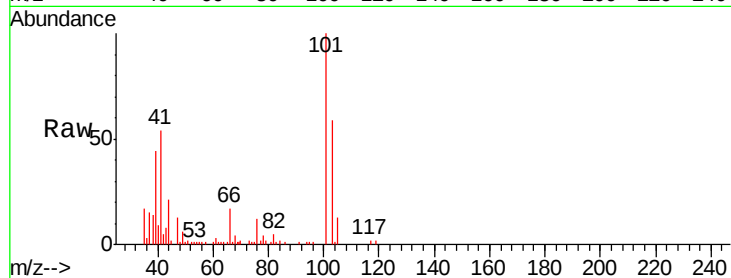
VF1115SBS01

Tgt Ion:101 Resp: 103823

Ion Ratio Lower Upper

101 100

103 59.4 53.1 79.7



#8

Diethyl Ether

Concen: 22.11 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.02 min

Lab File: VF060742.D

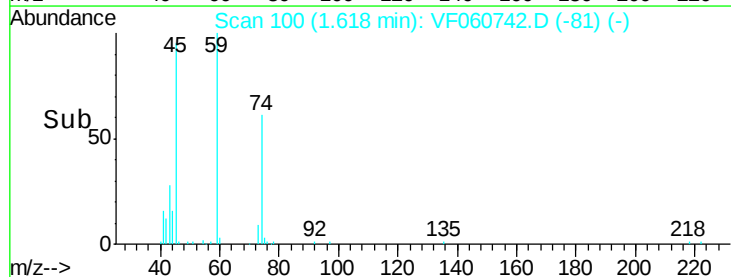
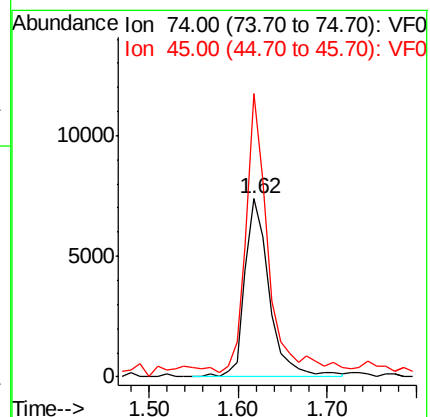
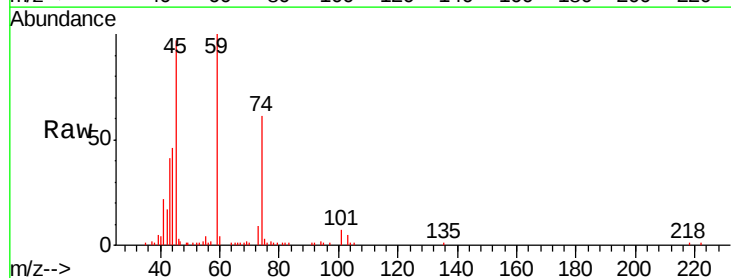
Acq: 15 Nov 2018 12:32

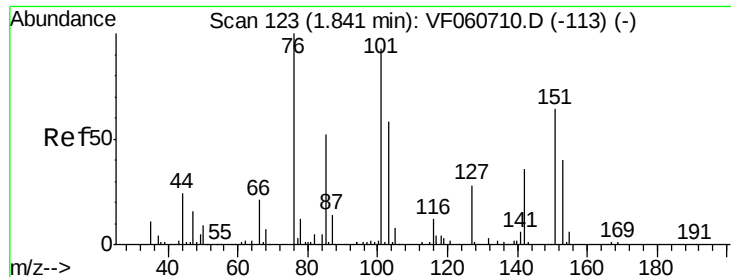
Tgt Ion: 74 Resp: 14195

Ion Ratio Lower Upper

74 100

45 159.2 67.7 203.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.37 ug/l

RT: 1.81 min Scan# 119

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBS01

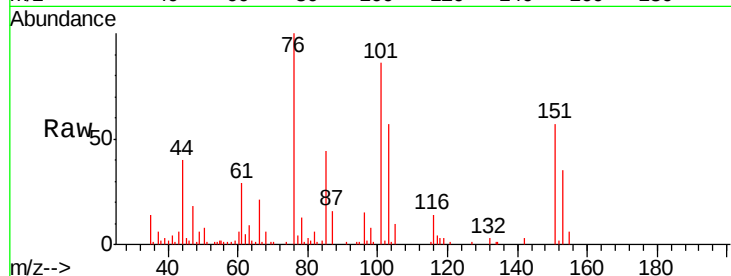
Tgt Ion:101 Resp: 55187

Ion Ratio Lower Upper

101 100

85 51.7 43.6 65.4

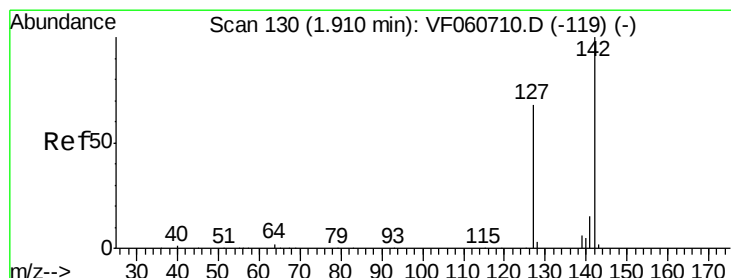
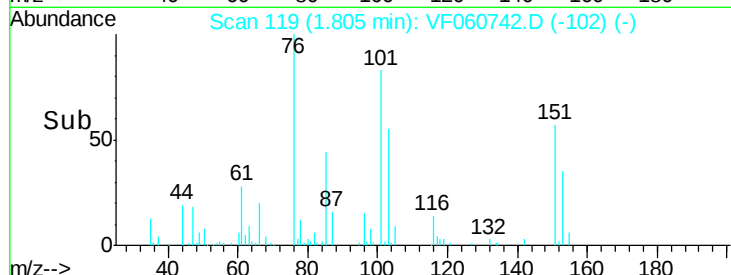
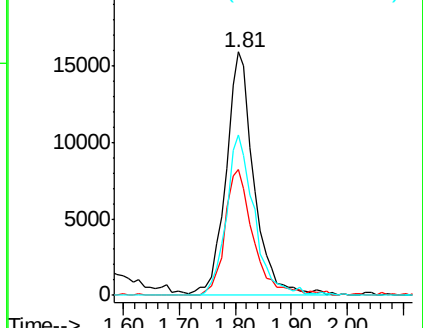
151 66.1 53.1 79.7



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: 22.83 ug/l

RT: 1.87 min Scan# 126

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

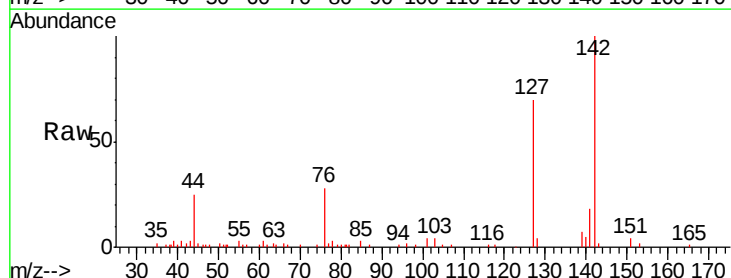
Tgt Ion:142 Resp: 86500

Ion Ratio Lower Upper

142 100

127 69.9 54.0 81.0

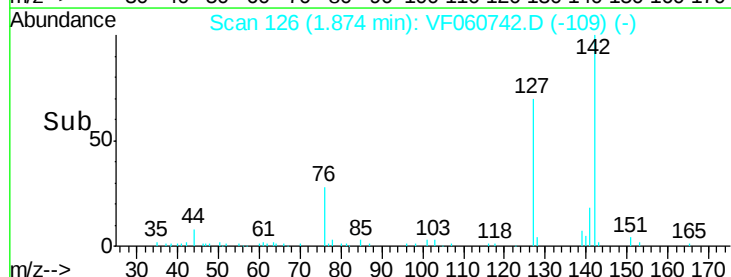
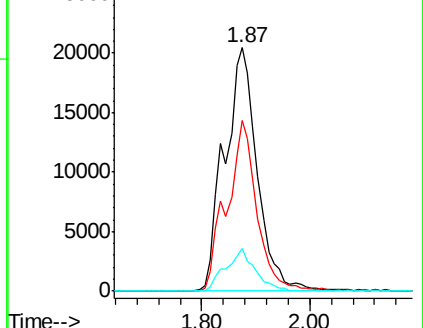
141 17.7 12.3 18.5

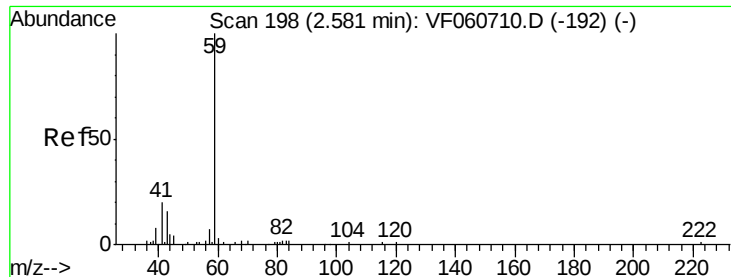


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



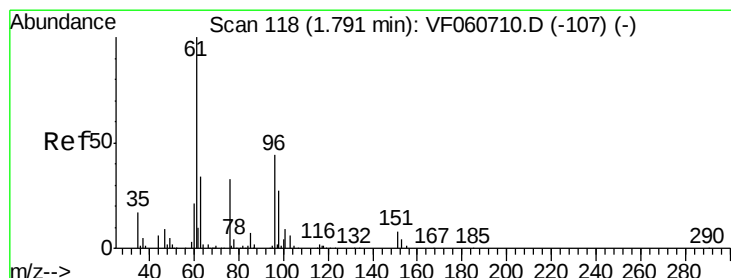
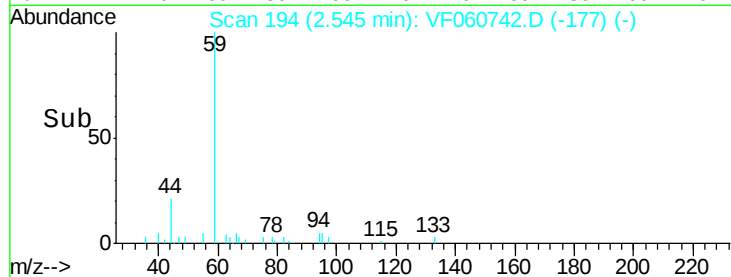
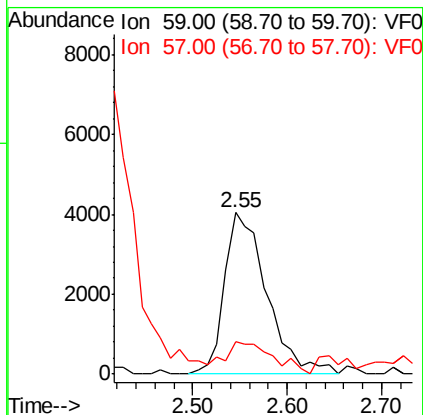
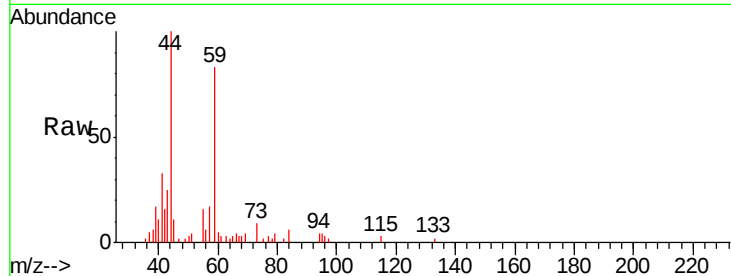


#11

Tert butyl alcohol  
 Concen: 105.49 ug/l  
 RT: 2.55 min Scan# 194  
 Delta R.T. -0.04 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBS01

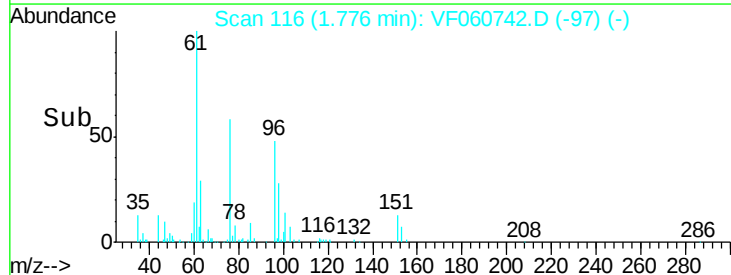
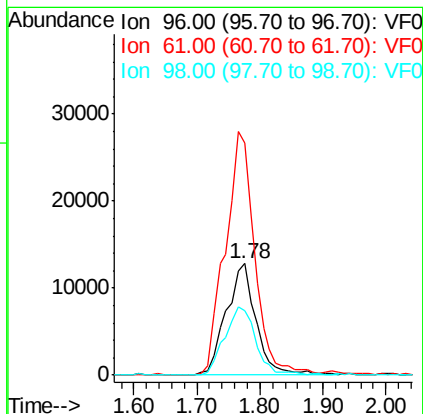
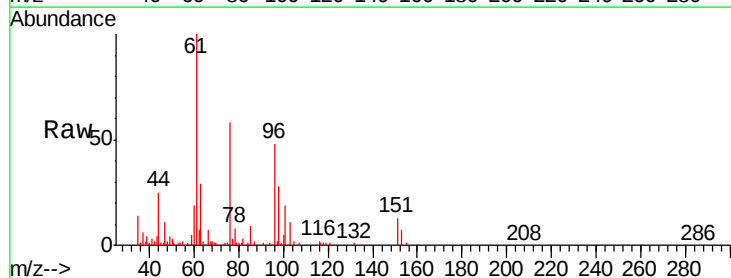
Tgt Ion: 59 Resp: 12500  
 Ion Ratio Lower Upper  
 59 100  
 57 20.4 10.5 15.7#

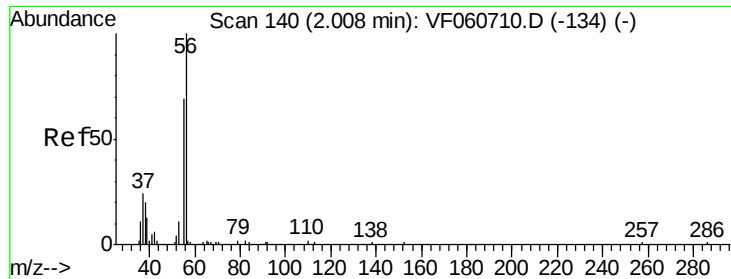


#12

1,1-Dichloroethene  
 Concen: 22.64 ug/l  
 RT: 1.78 min Scan# 116  
 Delta R.T. -0.02 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

Tgt Ion: 96 Resp: 42154  
 Ion Ratio Lower Upper  
 96 100  
 61 208.6 182.2 273.2  
 98 58.2 49.2 73.8





#13

Acrolein

Concen: 116.82 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

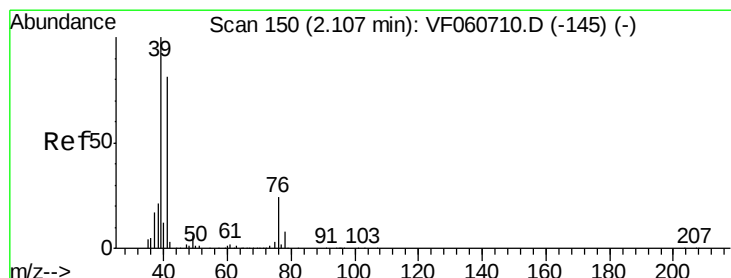
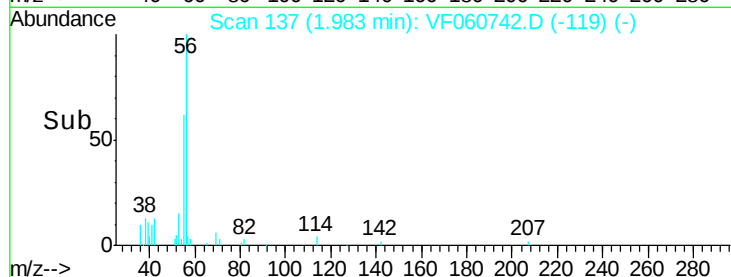
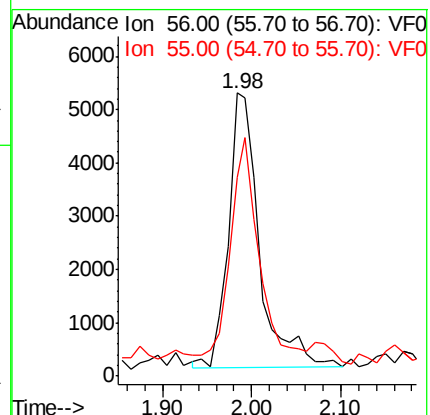
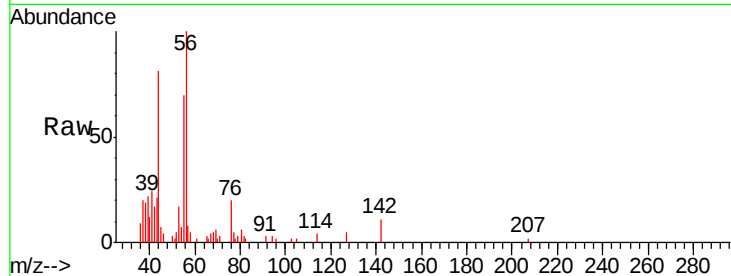
VF1115SBS01

Tgt Ion: 56 Resp: 12656

Ion Ratio Lower Upper

56 100

55 70.2 56.6 85.0



#14

Allyl chloride

Concen: 21.94 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

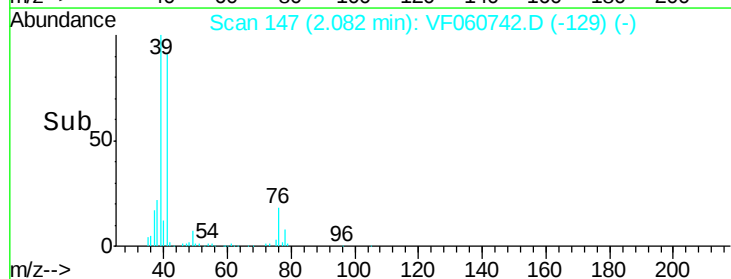
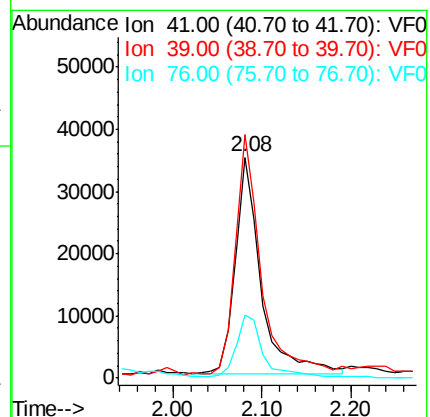
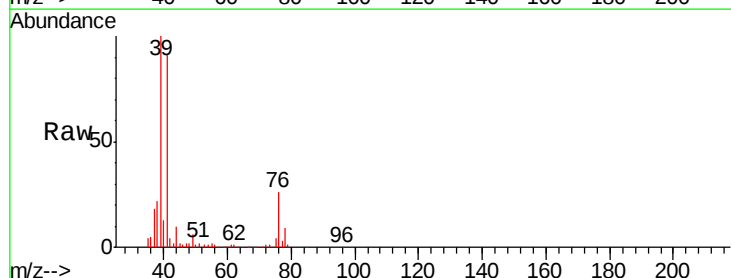
Tgt Ion: 41 Resp: 71578

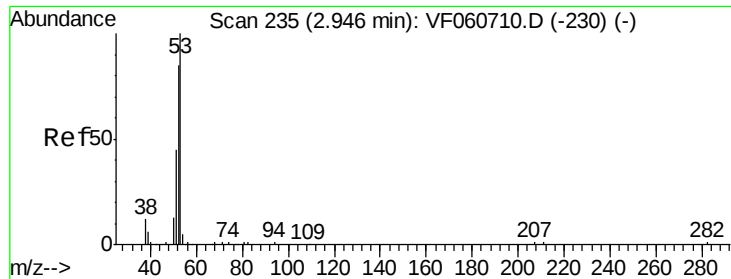
Ion Ratio Lower Upper

41 100

39 110.1 98.5 147.7

76 28.7 24.5 36.7





#15

Acrylonitrile

Concen: 120.48 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBSD01

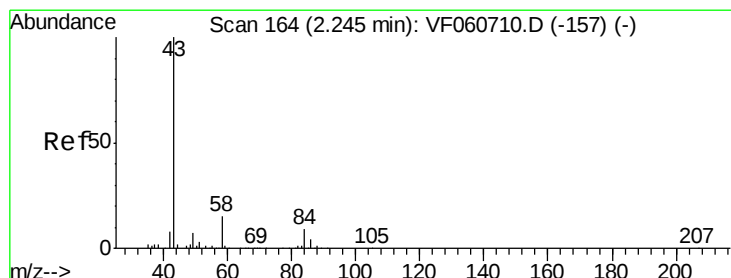
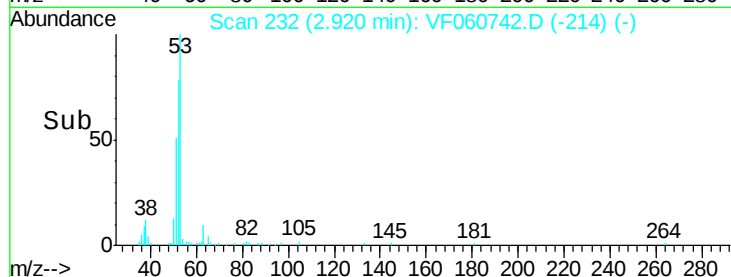
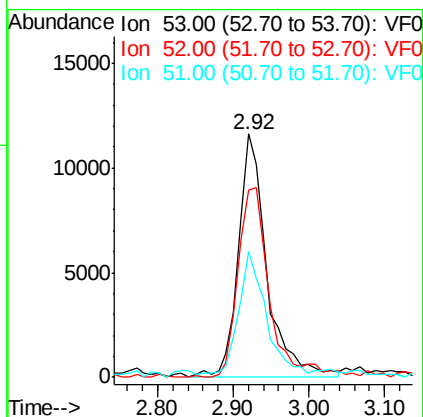
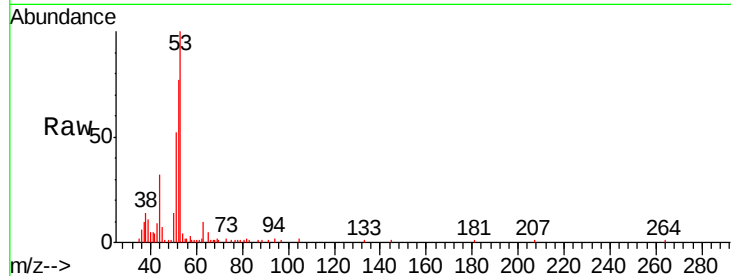
Tgt Ion: 53 Resp: 30419

Ion Ratio Lower Upper

53 100

52 77.1 68.8 103.2

51 51.7 36.7 55.1



#16

Acetone

Concen: 94.58 ug/l

RT: 2.22 min Scan# 161

Delta R.T. -0.03 min

Lab File: VF060742.D

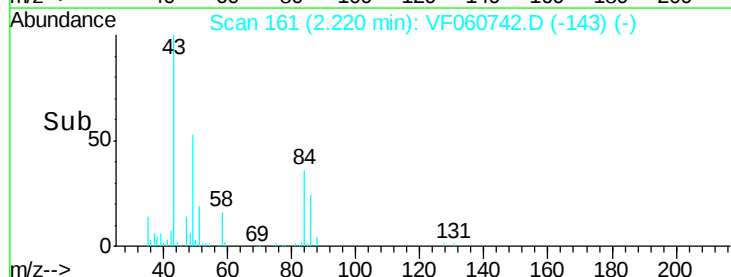
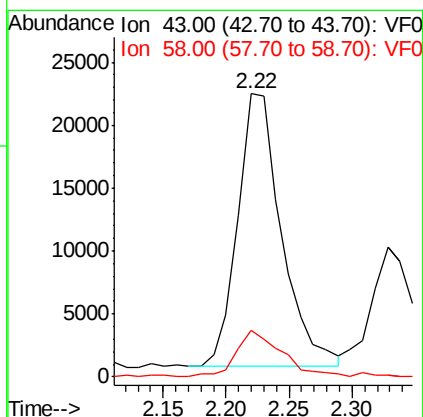
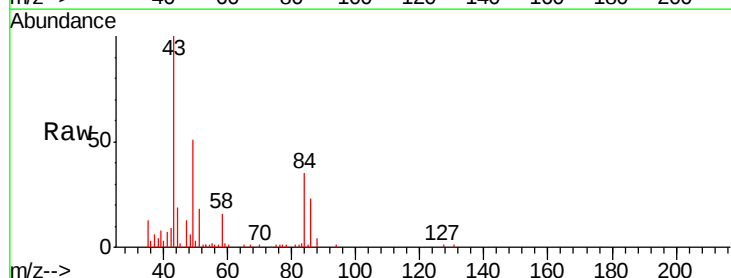
Acq: 15 Nov 2018 12:32

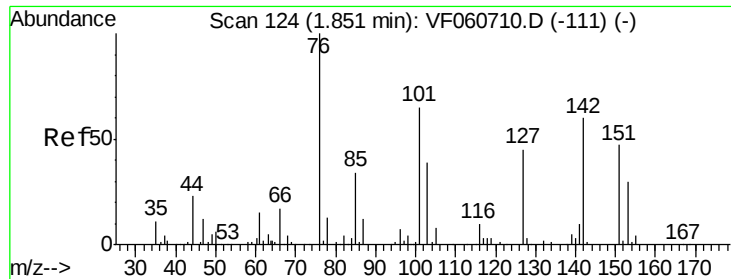
Tgt Ion: 43 Resp: 52631

Ion Ratio Lower Upper

43 100

58 16.4 11.6 17.4

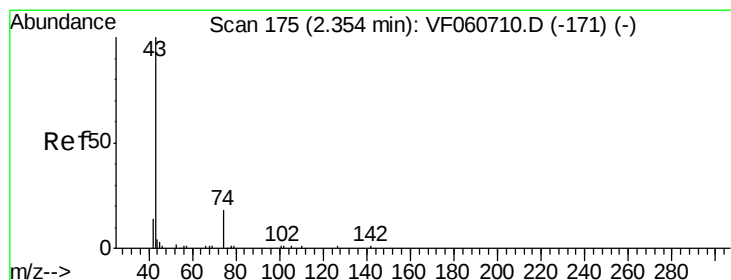
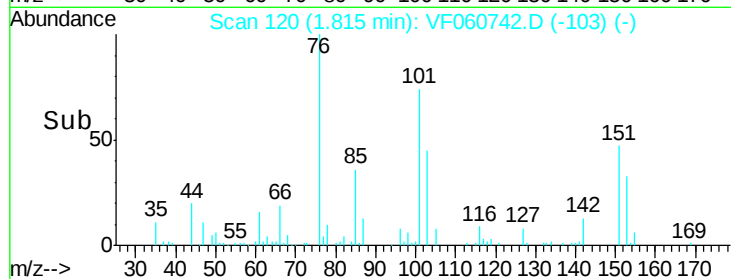
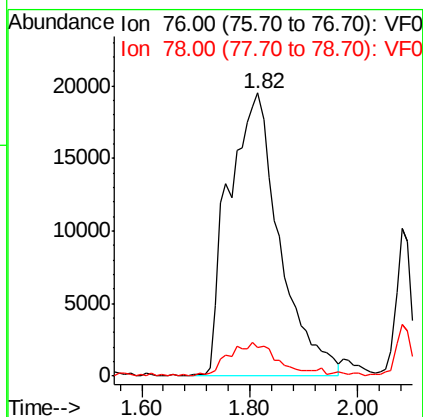
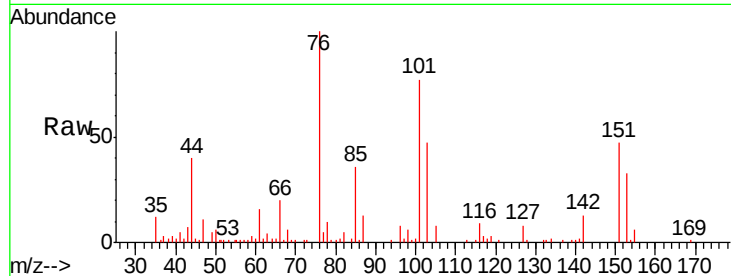




#17  
Carbon Disulfide  
Concen: 22.67 ug/l  
RT: 1.82 min Scan# 120  
Delta R.T. -0.04 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

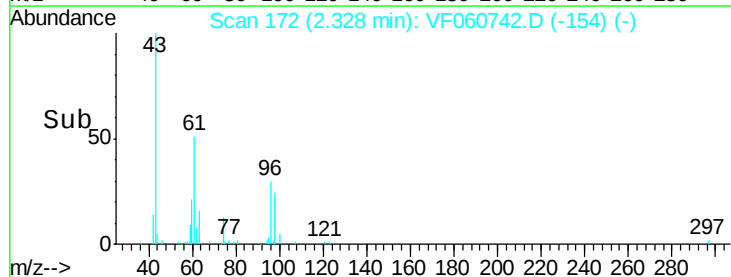
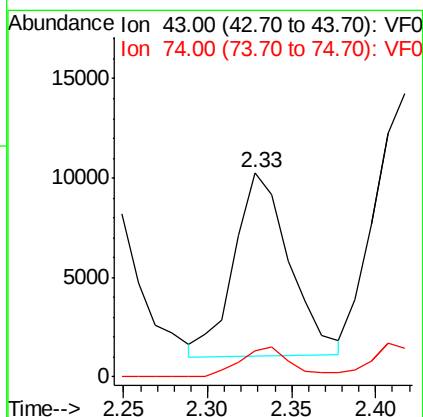
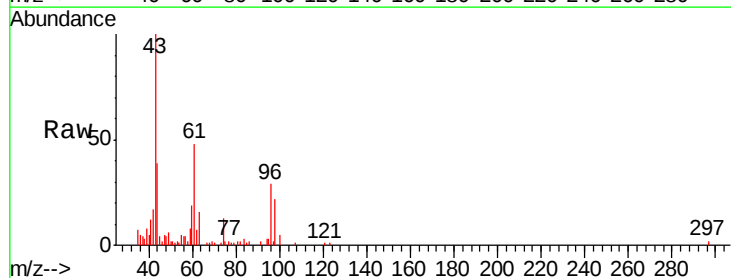
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1115SBS01

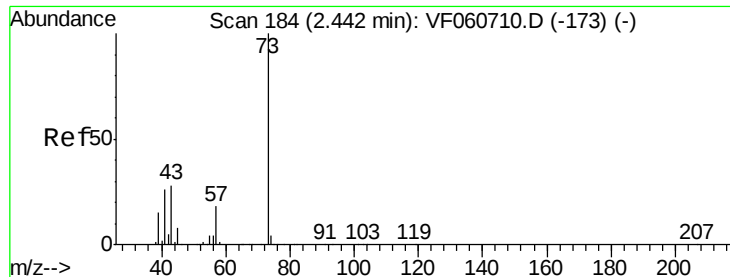
Tgt Ion: 76 Resp: 127571  
Ion Ratio Lower Upper  
76 100  
78 10.0 10.5 15.7#



#18  
Methyl Acetate  
Concen: 23.10 ug/l  
RT: 2.33 min Scan# 172  
Delta R.T. -0.03 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

Tgt Ion: 43 Resp: 21109  
Ion Ratio Lower Upper  
43 100  
74 13.0 11.8 17.8

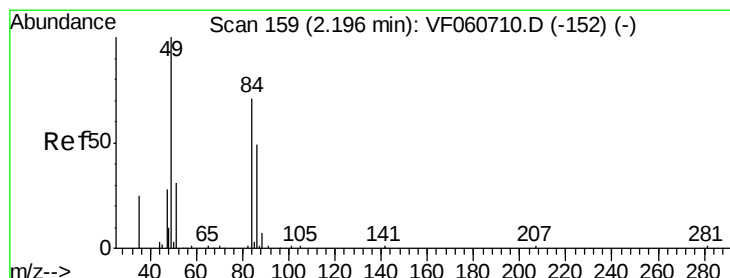
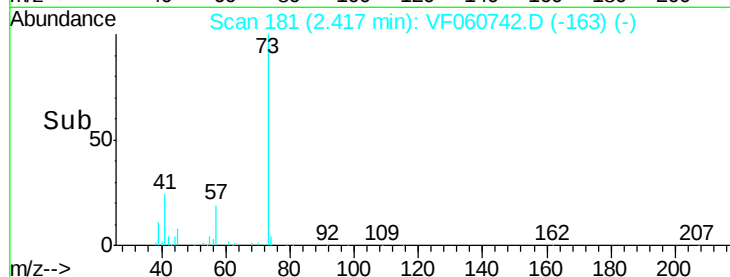
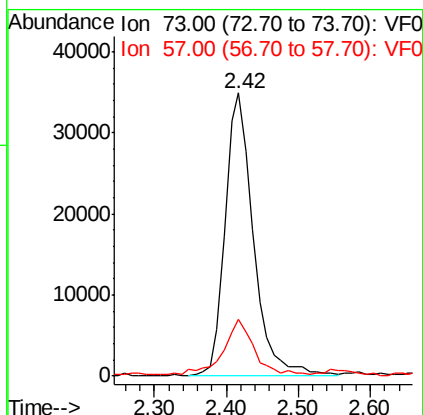
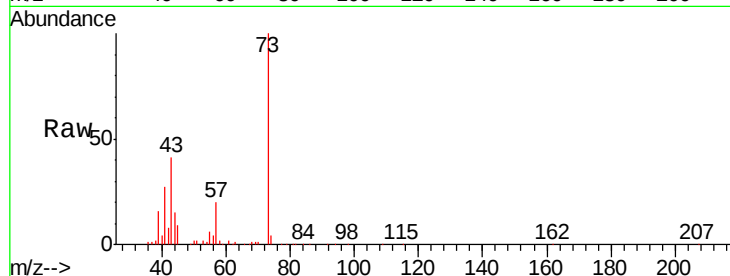




#19  
Methyl tert-butyl Ether  
Concen: 21.30 ug/l  
RT: 2.42 min Scan# 181  
Delta R.T. -0.03 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

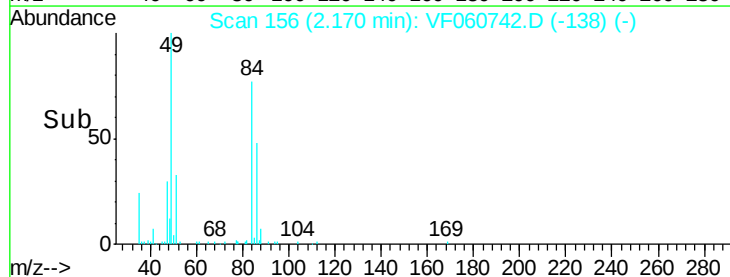
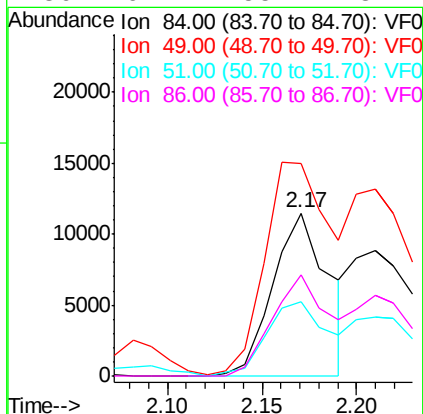
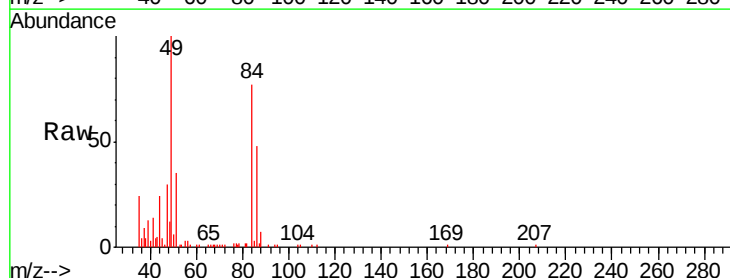
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1115SBS01

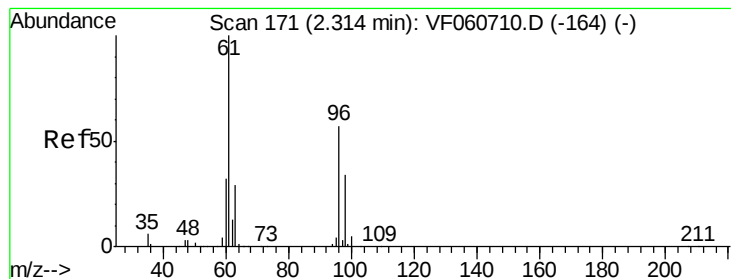
Tgt Ion: 73 Resp: 95170  
Ion Ratio Lower Upper  
73 100  
57 20.3 14.3 21.5



#20  
Methylene Chloride  
Concen: 10.51 ug/l  
RT: 2.17 min Scan# 156  
Delta R.T. -0.02 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

Tgt Ion: 84 Resp: 23613  
Ion Ratio Lower Upper  
84 100  
49 130.3 120.2 180.4  
51 45.2 37.2 55.8  
86 62.2 55.1 82.7





#21

trans-1,2-Dichloroethene

Concen: 22.72 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBS01

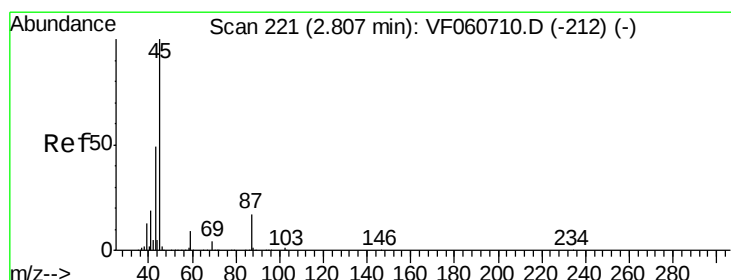
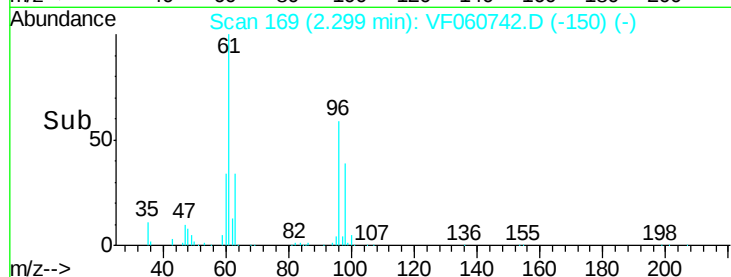
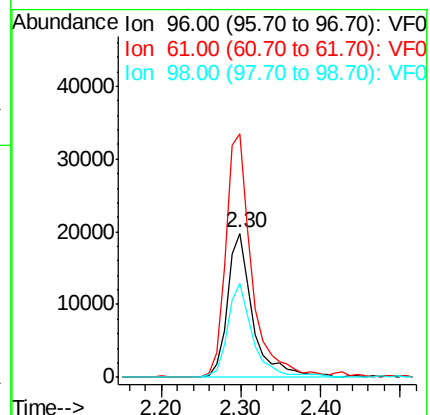
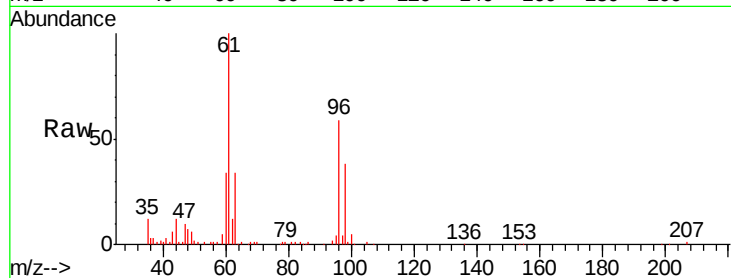
Tgt Ion: 96 Resp: 44196

Ion Ratio Lower Upper

96 100

61 169.1 141.6 212.4

98 64.9 47.4 71.0



#22

Diisopropyl ether

Concen: 23.75 ug/l

RT: 2.78 min Scan# 218

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Tgt Ion: 45 Resp: 149602

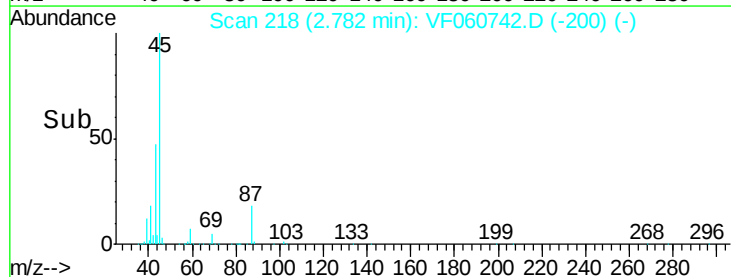
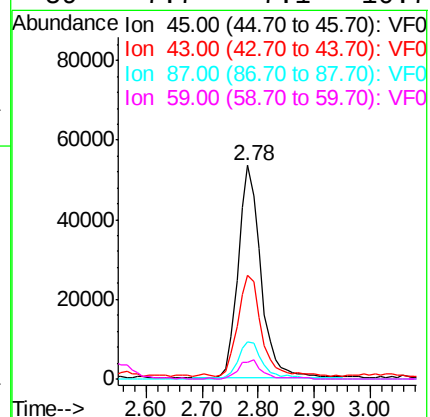
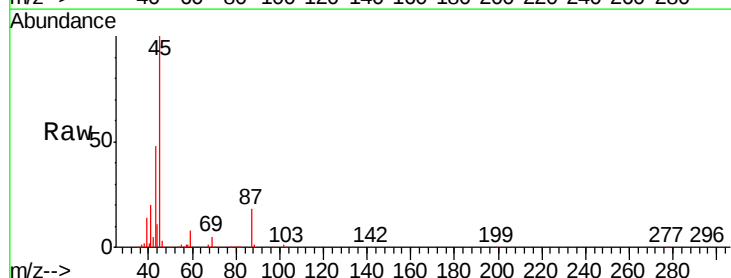
Ion Ratio Lower Upper

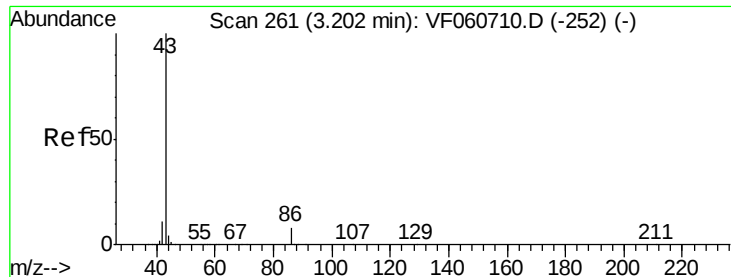
45 100

43 48.5 39.9 59.9

87 17.6 13.9 20.9

59 7.7 7.1 10.7





#23

Vinyl Acetate

Concen: 122.46 ug/l

RT: 3.17 min Scan# 257

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

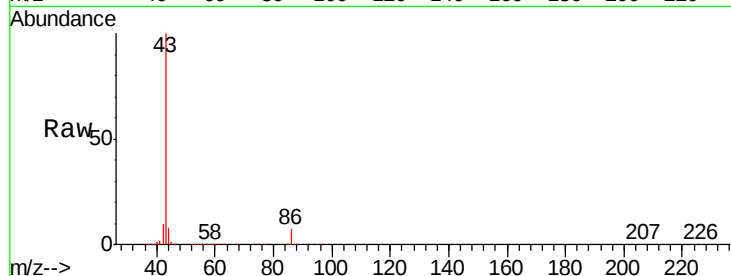
VF1115SBSD01

Tgt Ion: 43 Resp: 363215

Ion Ratio Lower Upper

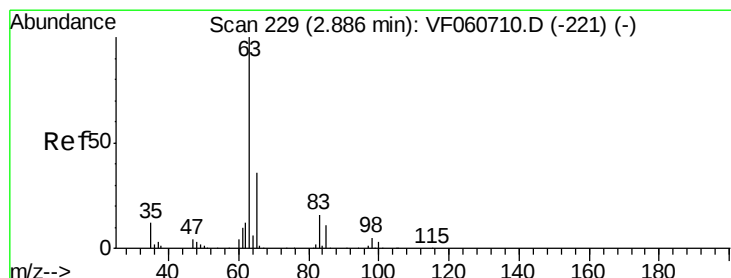
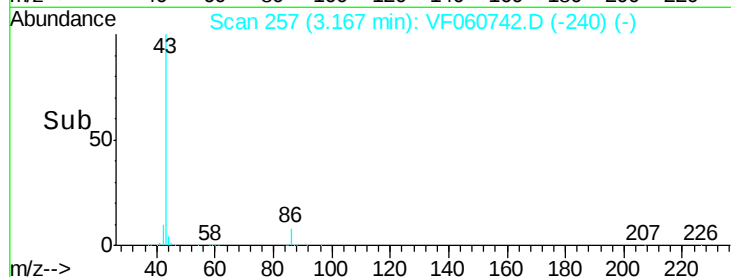
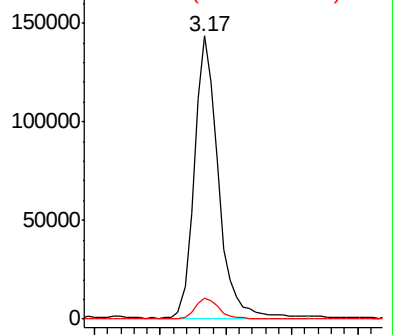
43 100

86 7.5 6.4 9.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 24.01 ug/l

RT: 2.85 min Scan# 225

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

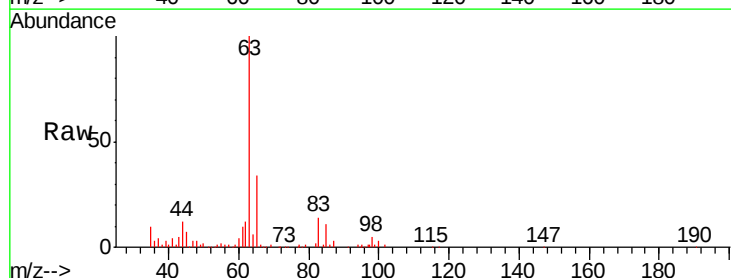
Tgt Ion: 63 Resp: 91546

Ion Ratio Lower Upper

63 100

98 5.4 2.4 7.1

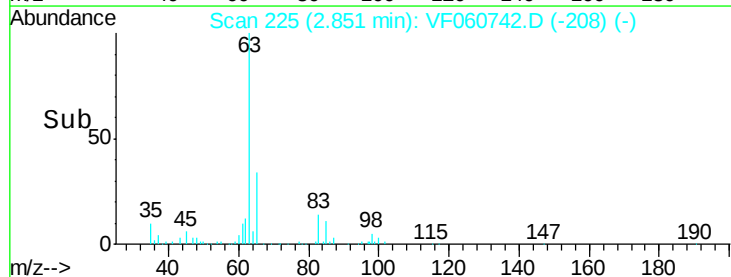
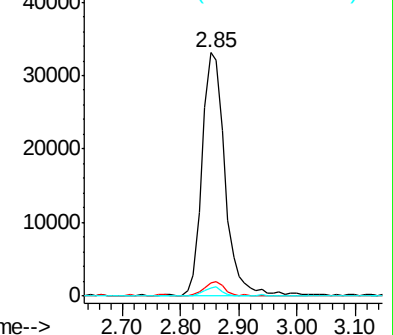
100 3.2 1.4 4.2

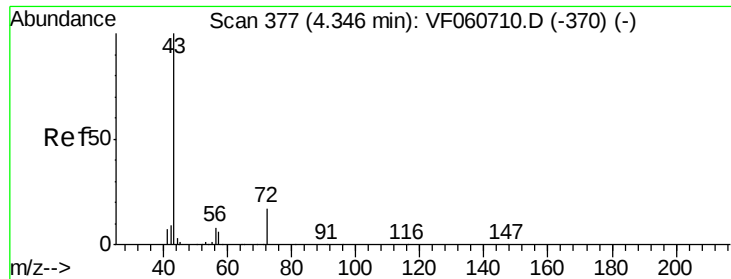


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 108.07 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.05 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

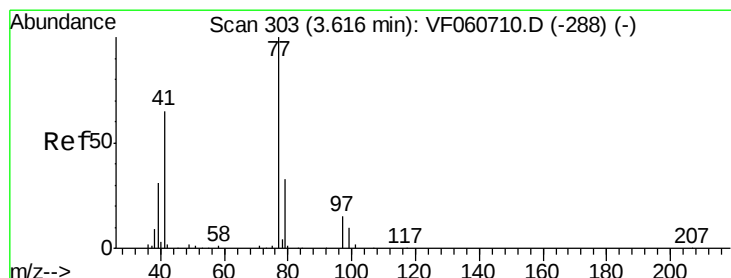
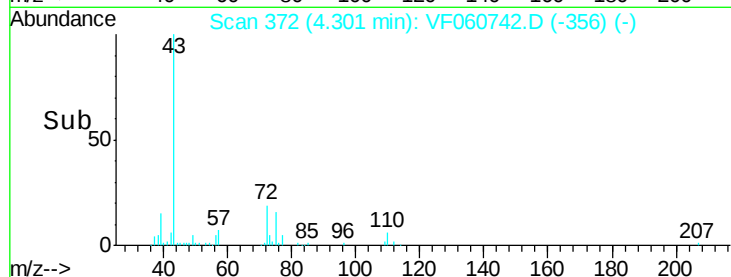
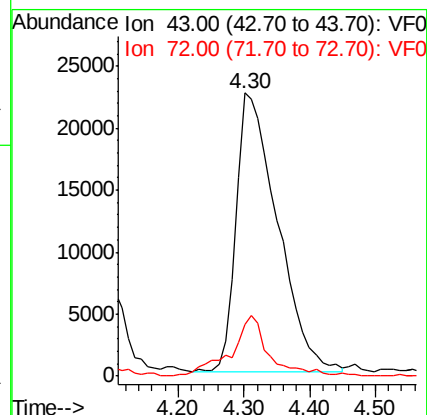
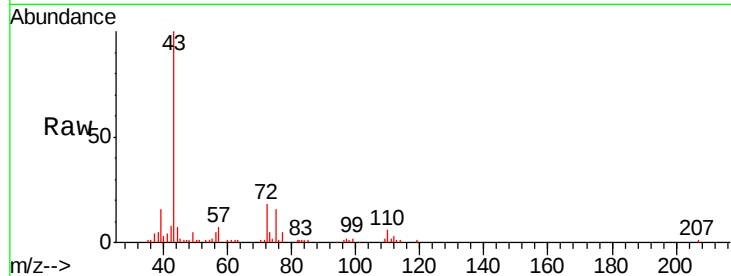
VF1115SBSD01

Tgt Ion: 43 Resp: 98916

Ion Ratio Lower Upper

43 100

72 18.2 16.1 24.1



#26

2,2-Dichloropropane

Concen: 21.04 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF060742.D

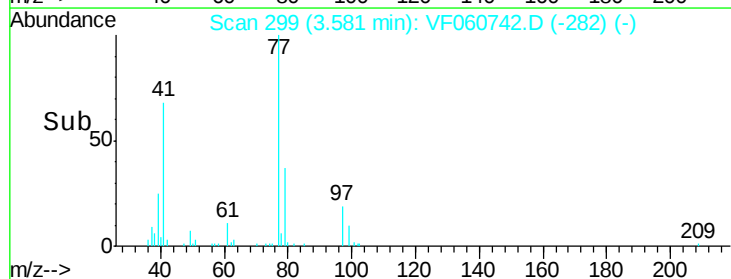
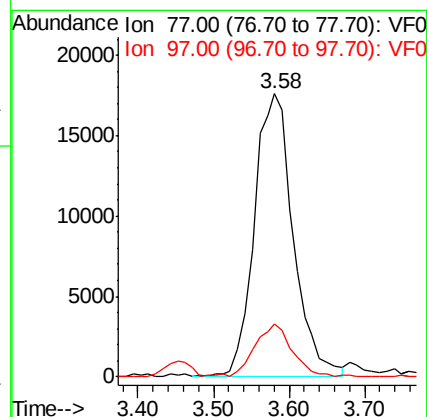
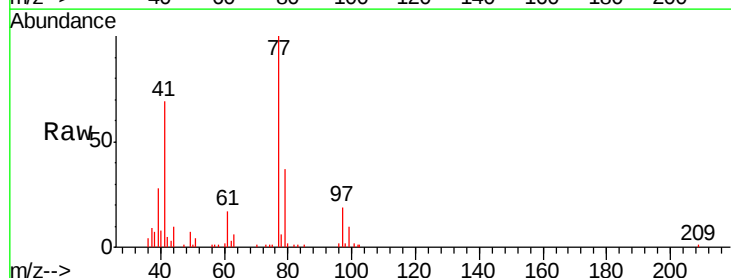
Acq: 15 Nov 2018 12:32

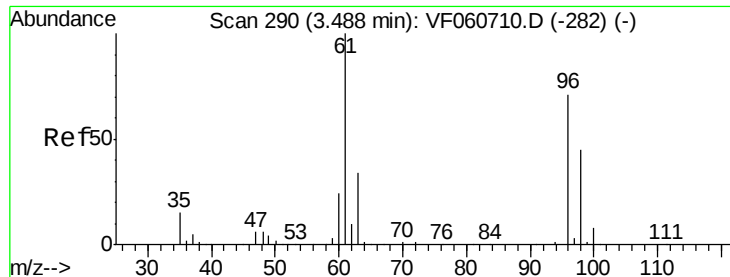
Tgt Ion: 77 Resp: 63143

Ion Ratio Lower Upper

77 100

97 18.8 8.8 26.5





#27

cis-1,2-Dichloroethene

Concen: 21.92 ug/l

RT: 3.46 min Scan# 287

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBS01

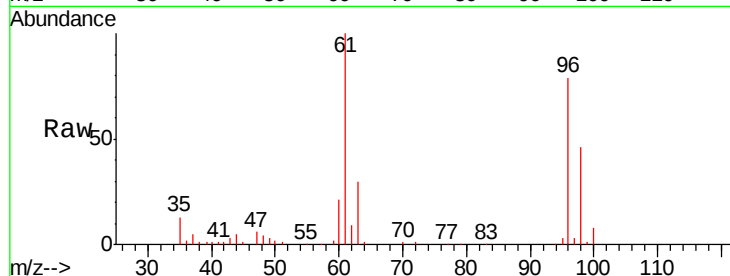
Tgt Ion: 96 Resp: 72559

Ion Ratio Lower Upper

96 100

61 126.3 0.0 280.6

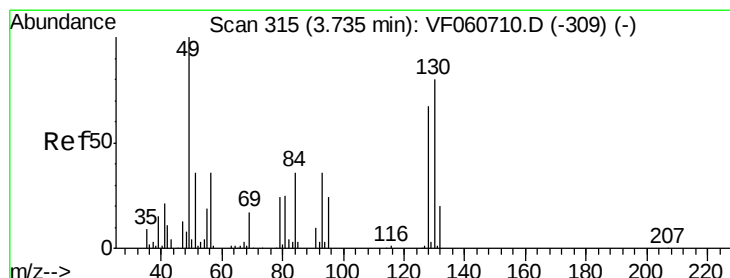
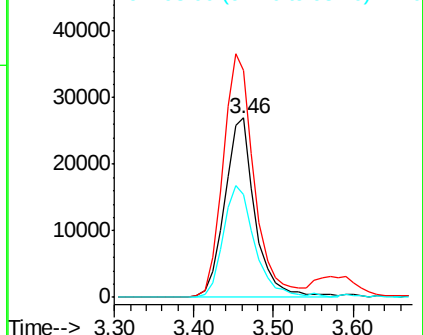
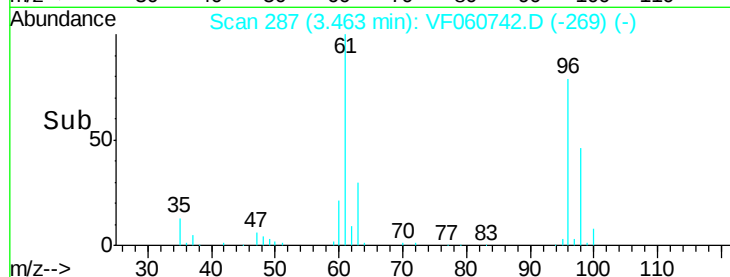
98 57.7 0.0 127.6



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#28

Bromochloromethane

Concen: 22.91 ug/l

RT: 3.70 min Scan# 311

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

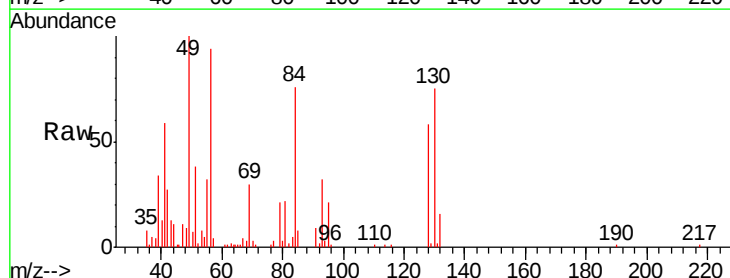
Tgt Ion: 49 Resp: 45396

Ion Ratio Lower Upper

49 100

129 2.4 0.0 5.2

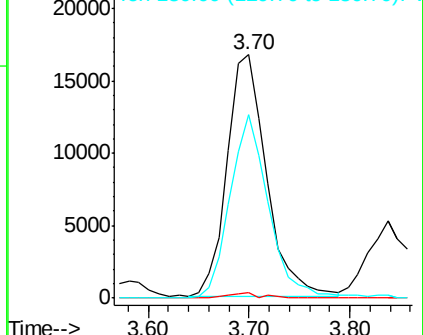
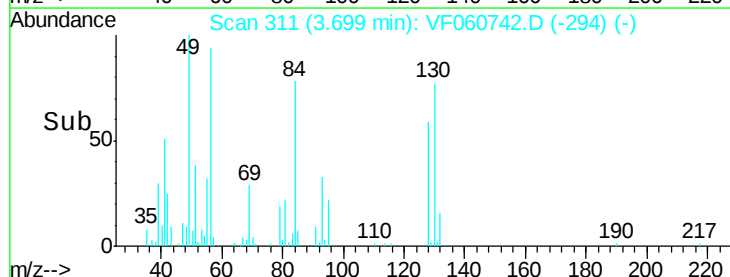
130 75.5 63.9 95.9

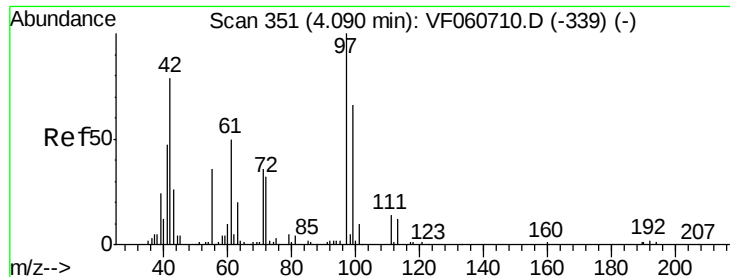


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 104.70 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBS01

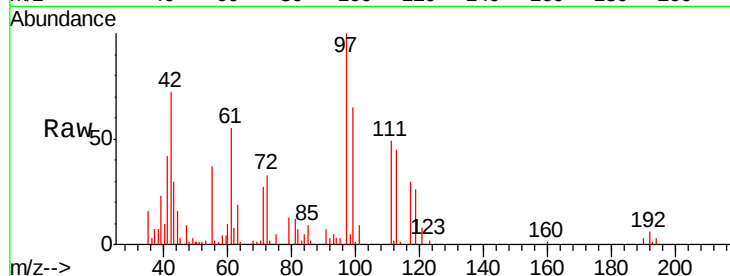
Tgt Ion: 42 Resp: 39530

Ion Ratio Lower Upper

42 100

72 39.8 30.3 45.5

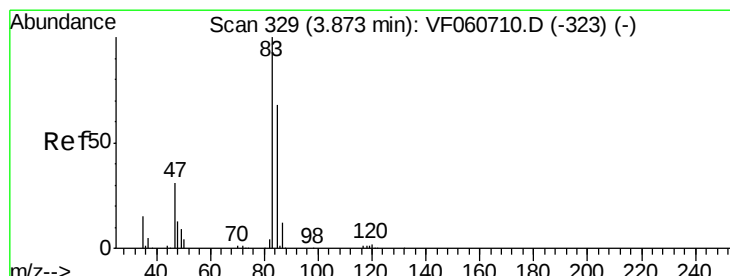
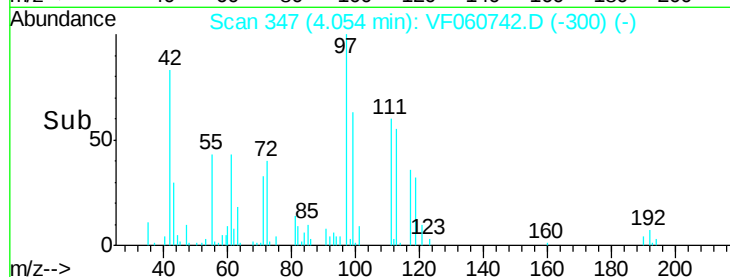
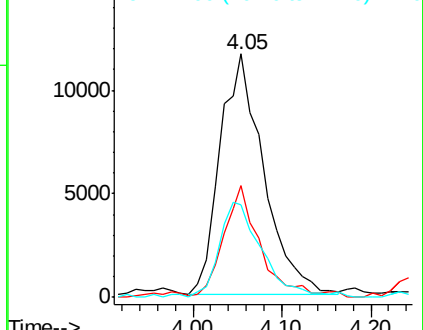
71 39.7 32.2 48.2



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 24.25 ug/l

RT: 3.84 min Scan# 325

Delta R.T. -0.04 min

Lab File: VF060742.D

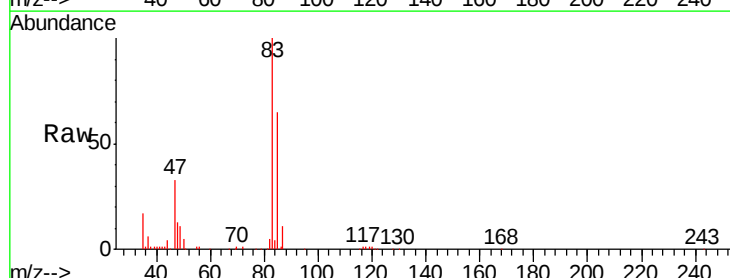
Acq: 15 Nov 2018 12:32

Tgt Ion: 83 Resp: 148365

Ion Ratio Lower Upper

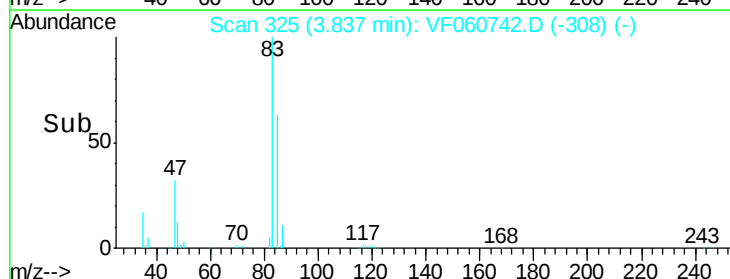
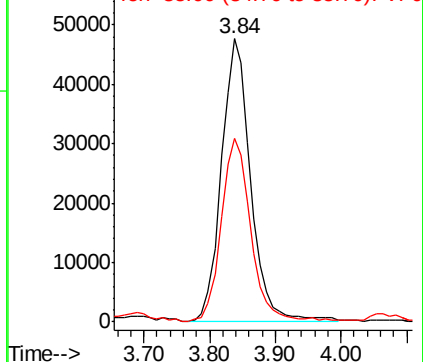
83 100

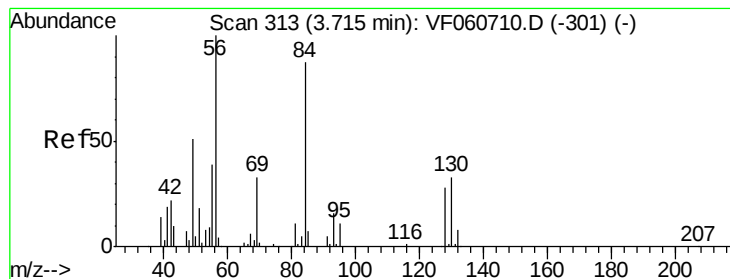
85 64.7 54.6 82.0



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 22.10 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBS01

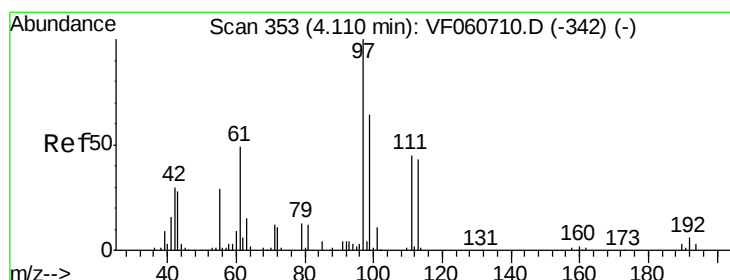
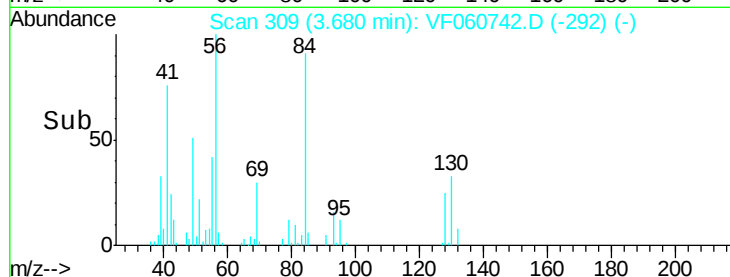
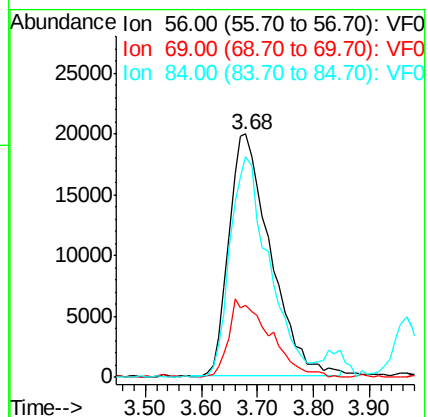
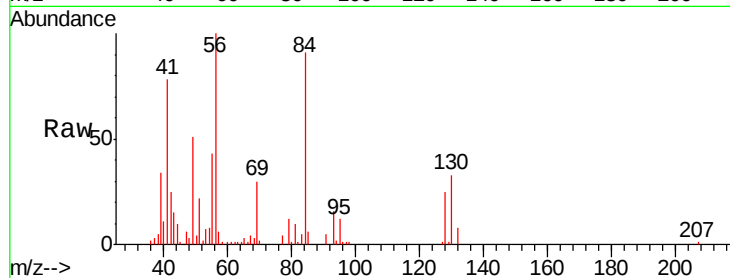
Tgt Ion: 56 Resp: 102262

Ion Ratio Lower Upper

56 100

69 29.8 26.0 39.0

84 90.6 69.4 104.2



#32

1,1,1-Trichloroethane

Concen: 20.87 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

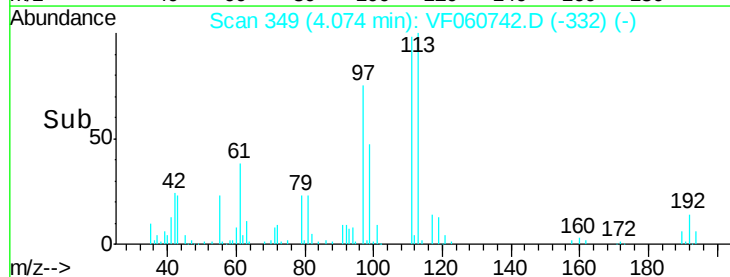
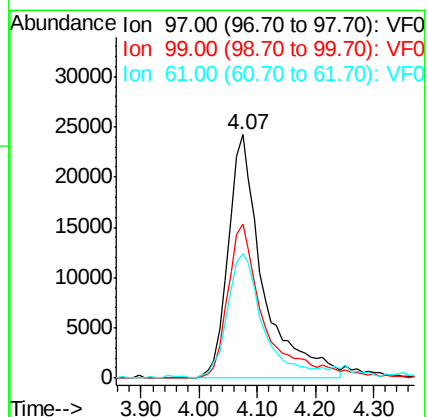
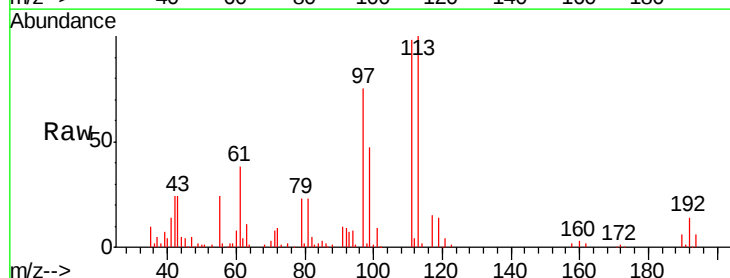
Tgt Ion: 97 Resp: 100542

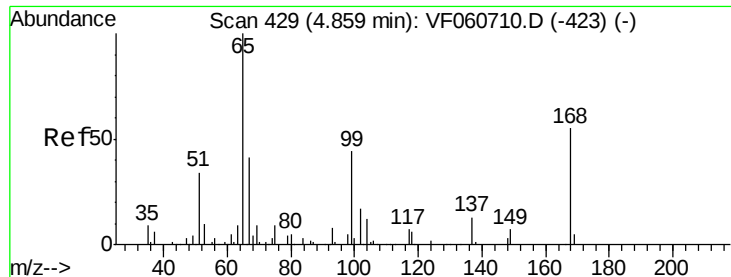
Ion Ratio Lower Upper

97 100

99 63.1 51.1 76.7

61 51.0 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 44.18 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

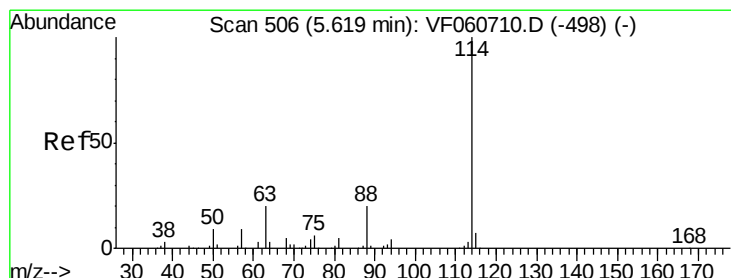
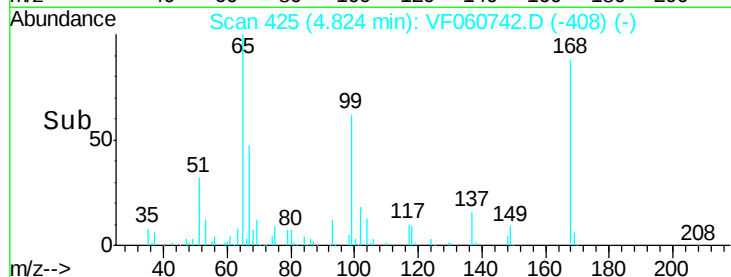
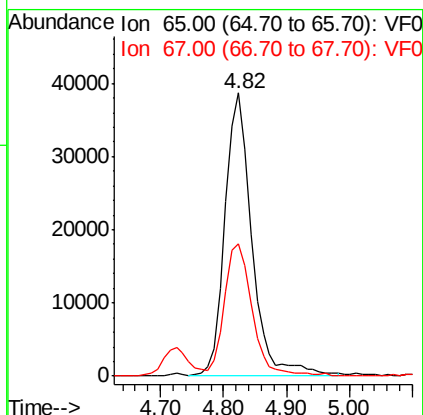
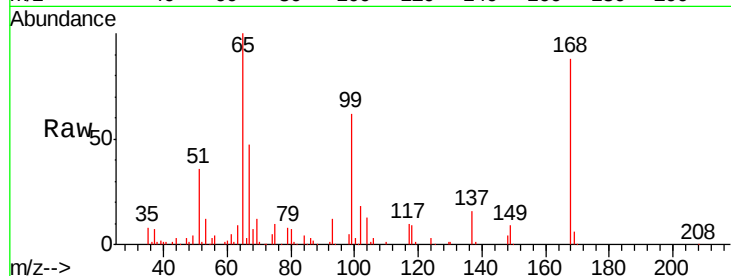
VF1115SBS01

Tgt Ion: 65 Resp: 115035

Ion Ratio Lower Upper

65 100

67 46.6 0.0 90.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.57 min Scan# 501

Delta R.T. -0.05 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

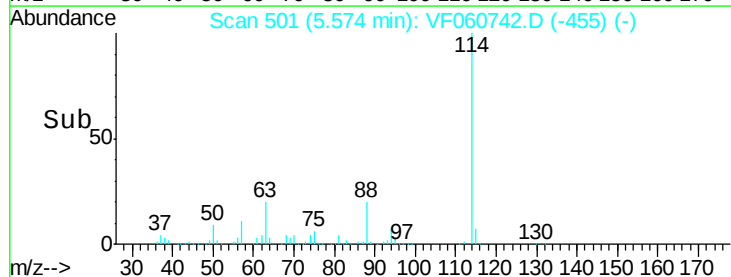
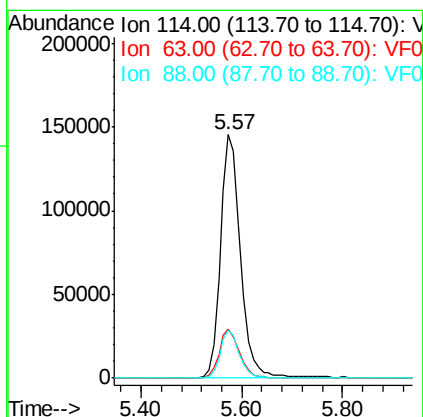
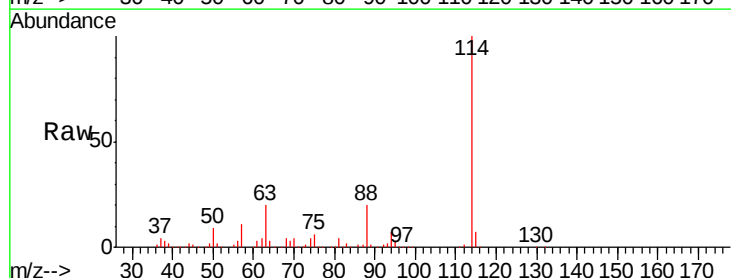
Tgt Ion: 114 Resp: 401343

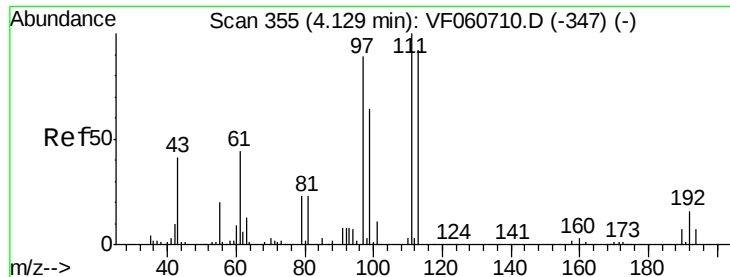
Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

88 19.7 0.0 39.6

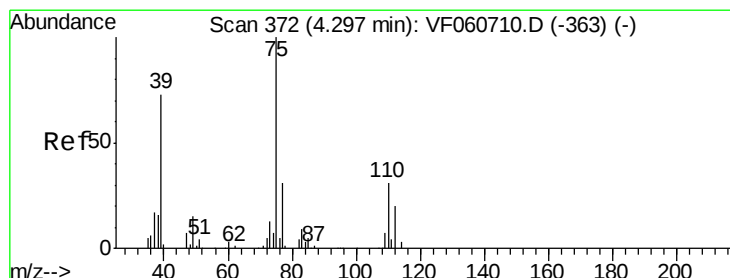
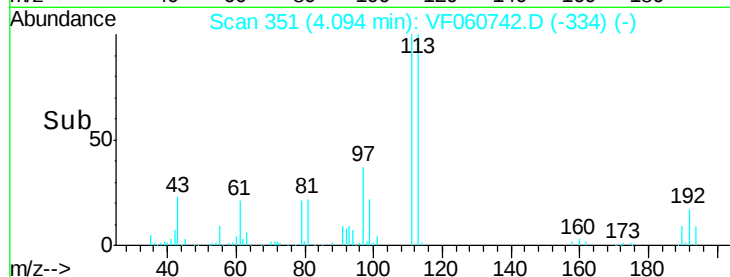
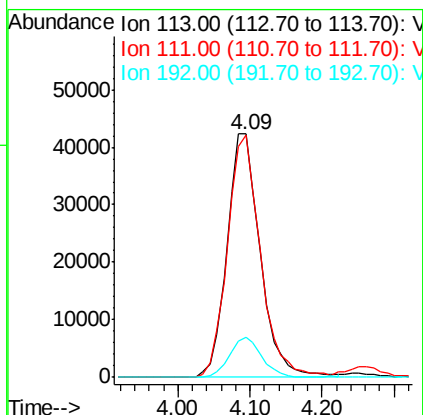
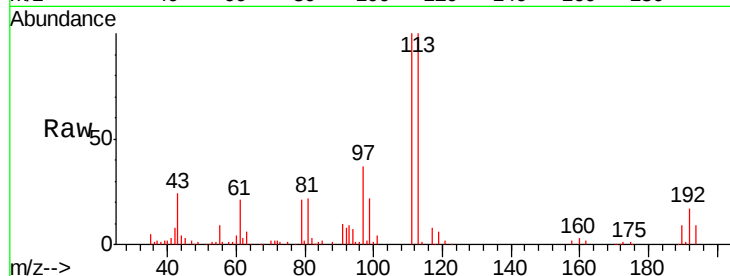




#35  
 Dibromofluoromethane  
 Concen: 45.14 ug/l  
 RT: 4.09 min Scan# 351  
 Delta R.T. -0.04 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

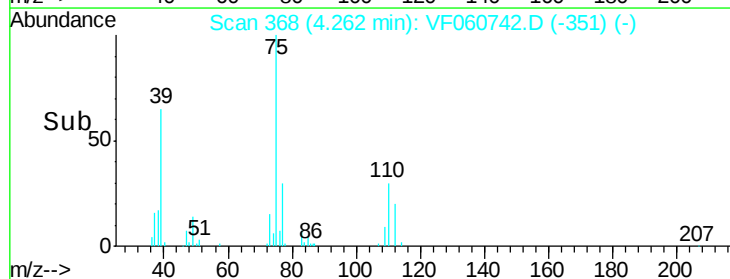
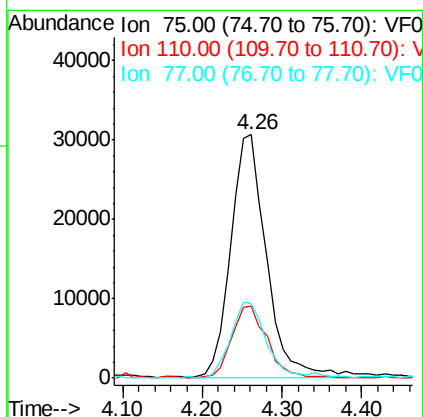
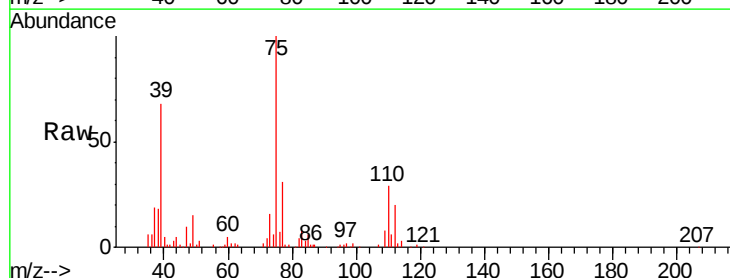
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBS01

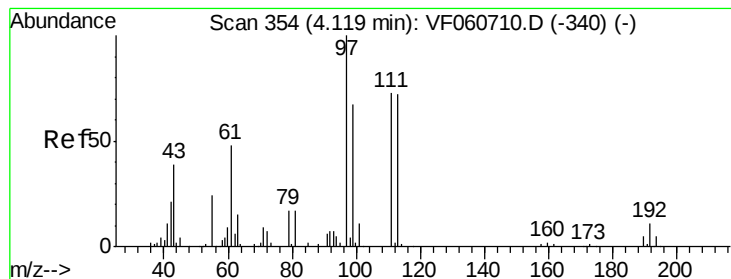
Tgt Ion: 113 Resp: 136180  
 Ion Ratio Lower Upper  
 113 100  
 111 99.6 87.1 130.7  
 192 16.7 13.8 20.6



#36  
 1,1-Dichloropropene  
 Concen: 20.36 ug/l  
 RT: 4.26 min Scan# 368  
 Delta R.T. -0.04 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

Tgt Ion: 75 Resp: 94746  
 Ion Ratio Lower Upper  
 75 100  
 110 29.5 15.6 46.8  
 77 30.5 25.0 37.6





#37

Ethyl Acetate

Concen: 22.82 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBS01

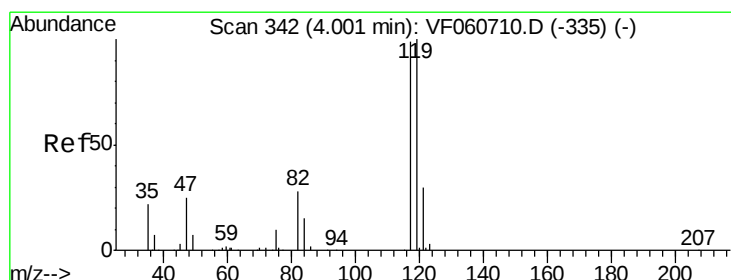
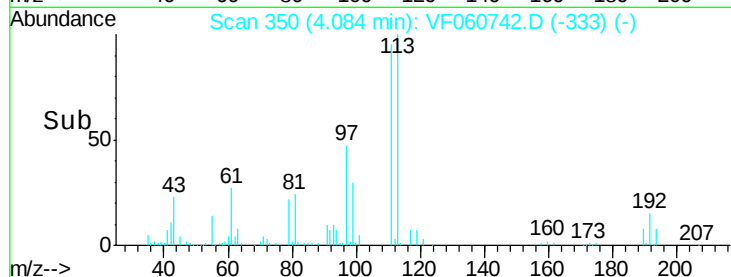
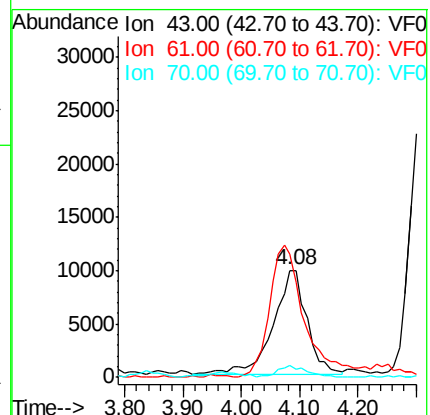
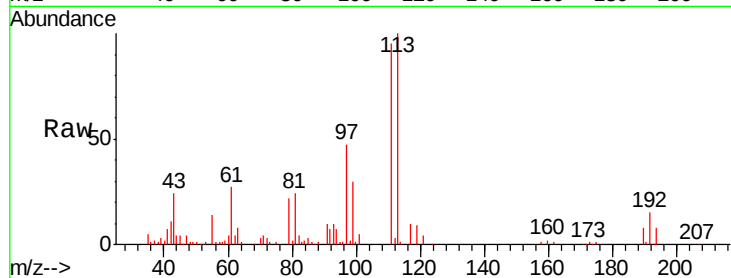
Tgt Ion: 43 Resp: 39489

Ion Ratio Lower Upper

43 100

61 114.6 98.5 147.7

70 10.7 7.4 11.0



#38

Carbon Tetrachloride

Concen: 20.42 ug/l

RT: 3.97 min Scan# 338

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

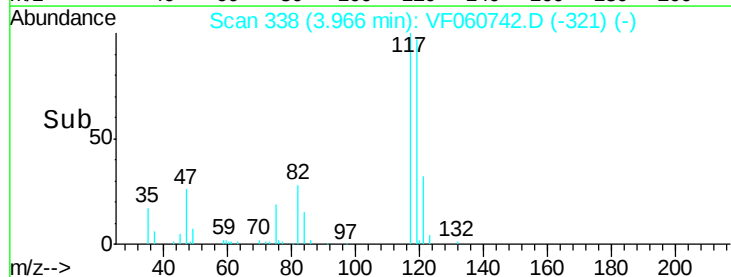
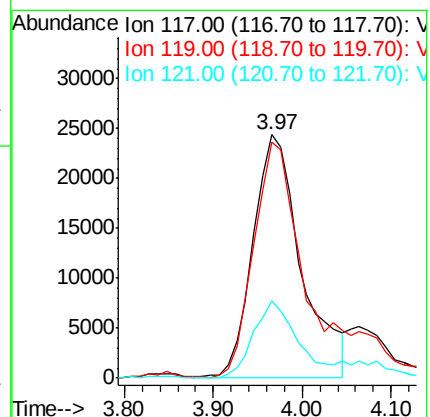
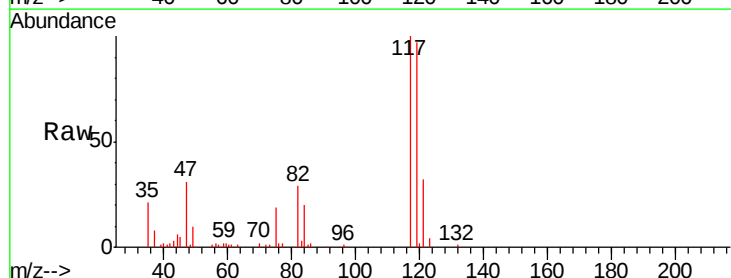
Tgt Ion: 117 Resp: 92210

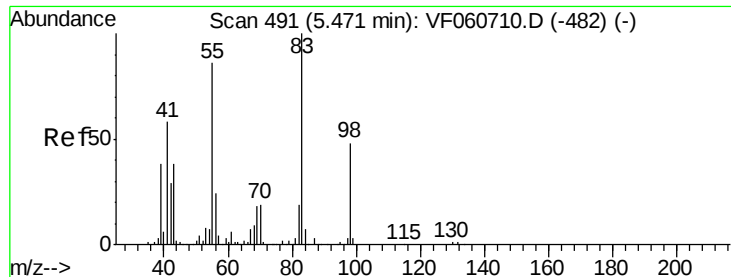
Ion Ratio Lower Upper

117 100

119 96.7 80.7 121.1

121 31.6 24.3 36.5

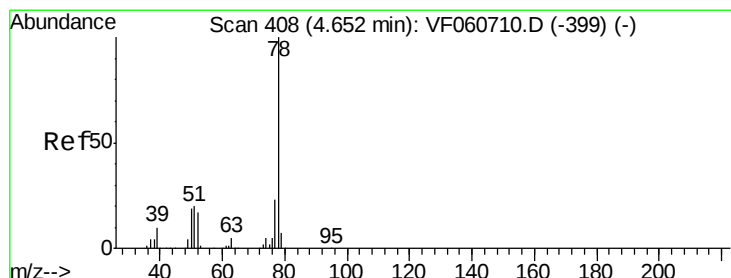
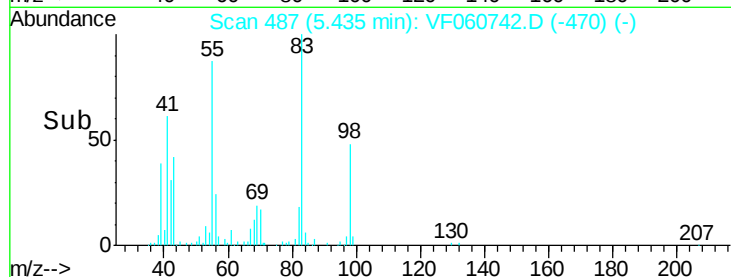
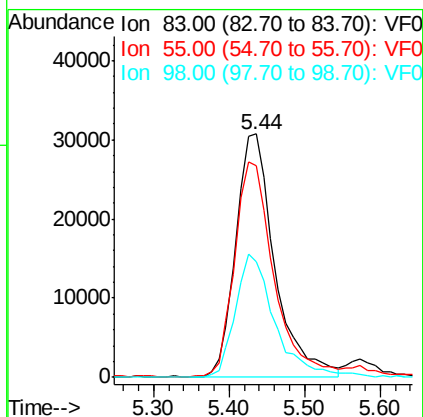
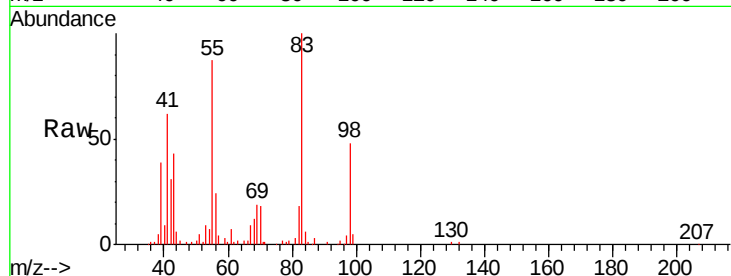




#39  
Methylcyclohexane  
Concen: 20.47 ug/l  
RT: 5.44 min Scan# 487  
Delta R.T. -0.04 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

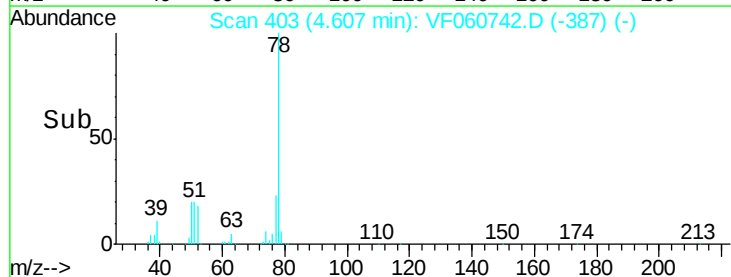
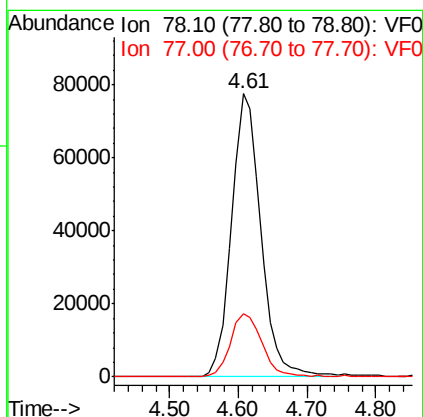
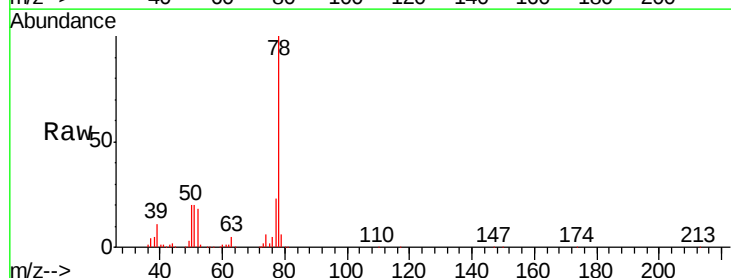
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1115SBS01

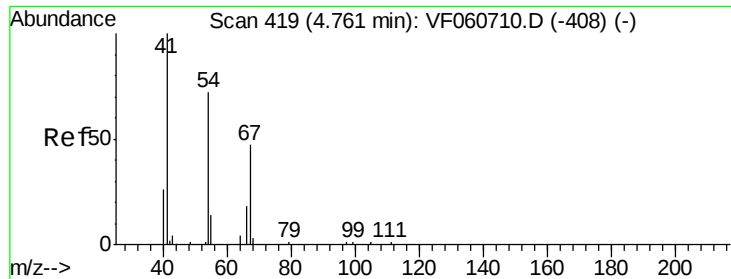
Tgt Ion: 83 Resp: 110558  
Ion Ratio Lower Upper  
83 100  
55 87.2 69.0 103.4  
98 47.6 38.5 57.7



#40  
Benzene  
Concen: 22.14 ug/l  
RT: 4.61 min Scan# 403  
Delta R.T. -0.05 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

Tgt Ion: 78 Resp: 229671  
Ion Ratio Lower Upper  
78 100  
77 22.5 18.6 28.0





#41

Methacrylonitrile

Concen: 23.34 ug/l

RT: 4.73 min Scan# 415

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBSD01

Tgt Ion: 41 Resp: 23662

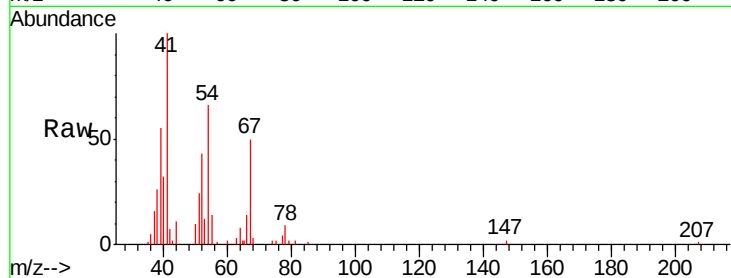
Ion Ratio Lower Upper

41 100

39 55.5 47.1 70.7

67 49.8 37.1 55.7

52 42.6 39.3 58.9

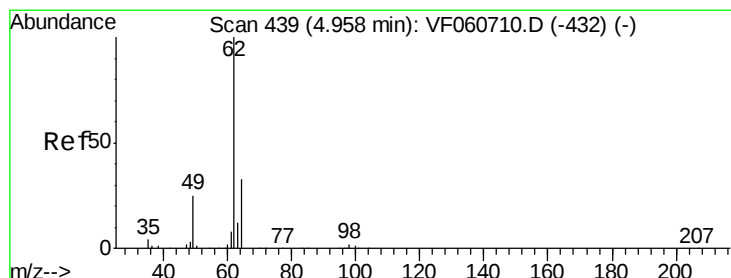
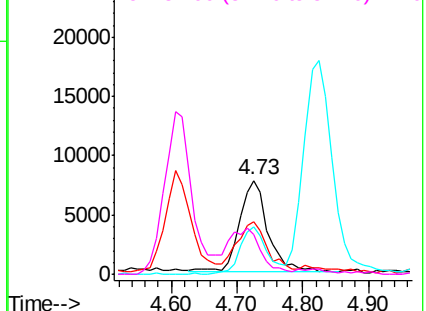
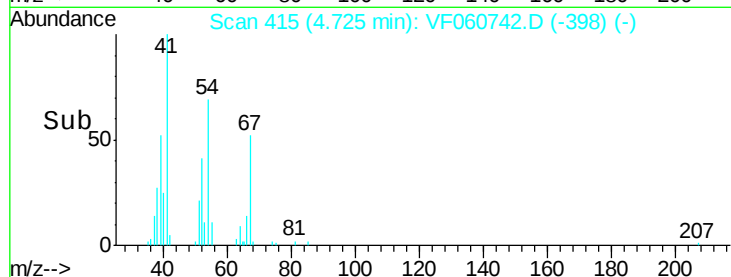


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 20.04 ug/l

RT: 4.92 min Scan# 435

Delta R.T. -0.04 min

Lab File: VF060742.D

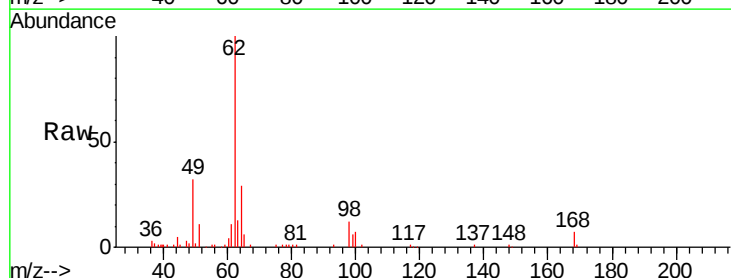
Acq: 15 Nov 2018 12:32

Tgt Ion: 62 Resp: 71861

Ion Ratio Lower Upper

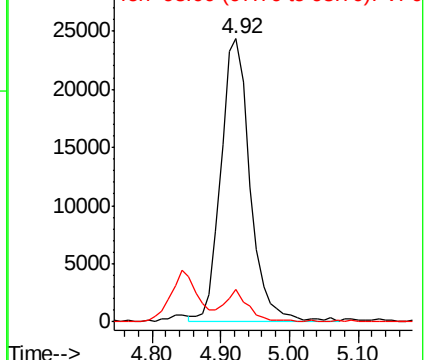
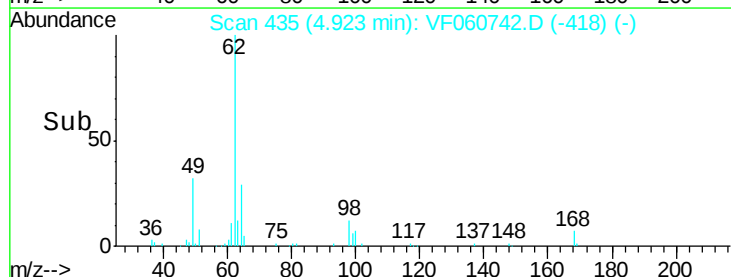
62 100

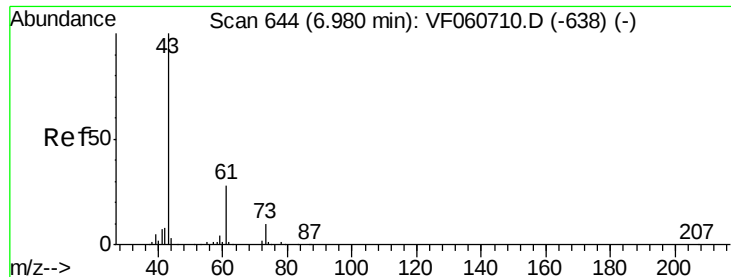
98 11.7 0.0 16.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 23.99 ug/l

RT: 6.93 min Scan# 639

Delta R.T. -0.05 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBS01

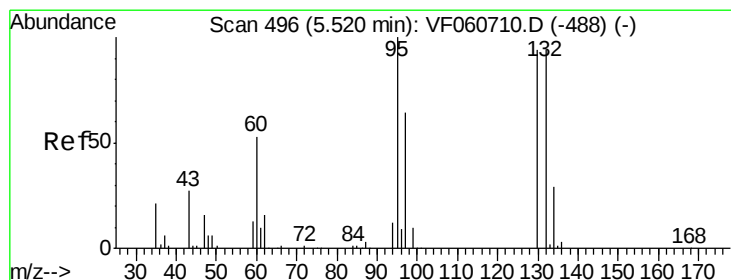
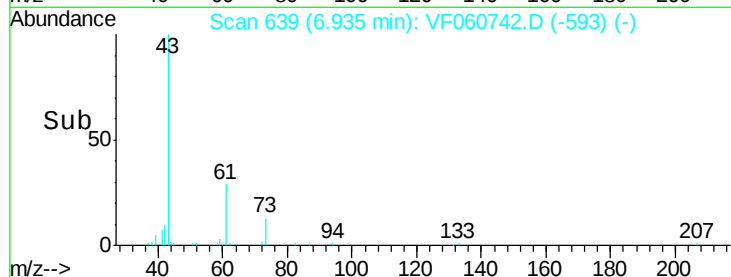
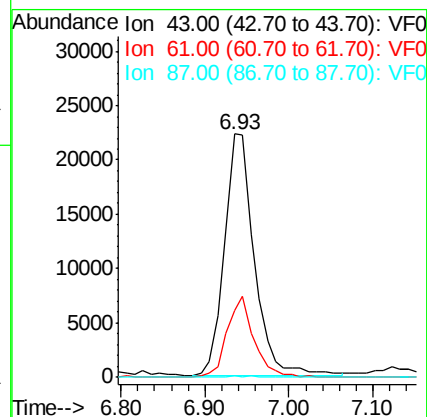
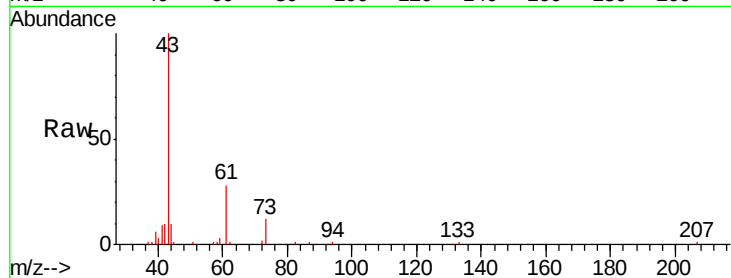
Tgt Ion: 43 Resp: 55054

Ion Ratio Lower Upper

43 100

61 27.7 22.2 33.4

87 0.6 0.4 0.6#



#44

Trichloroethene

Concen: 20.75 ug/l

RT: 5.48 min Scan# 492

Delta R.T. -0.04 min

Lab File: VF060742.D

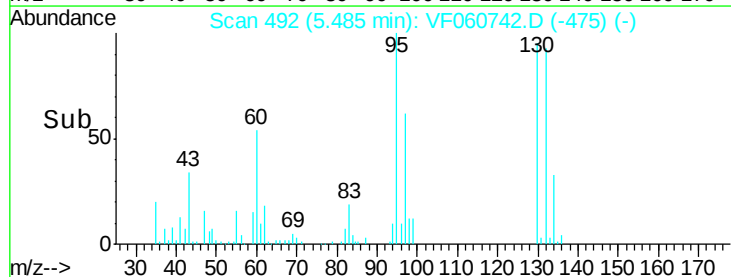
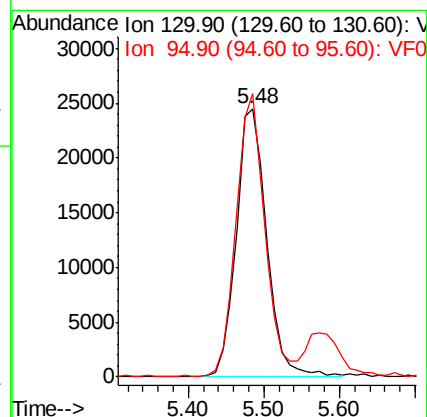
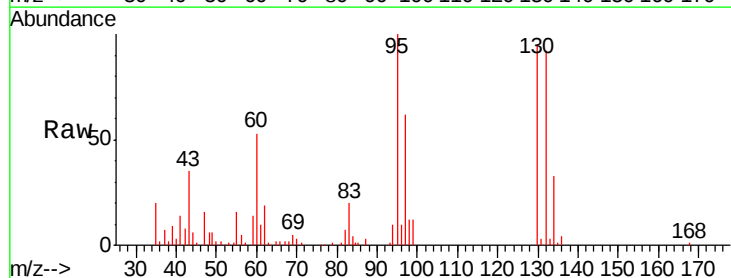
Acq: 15 Nov 2018 12:32

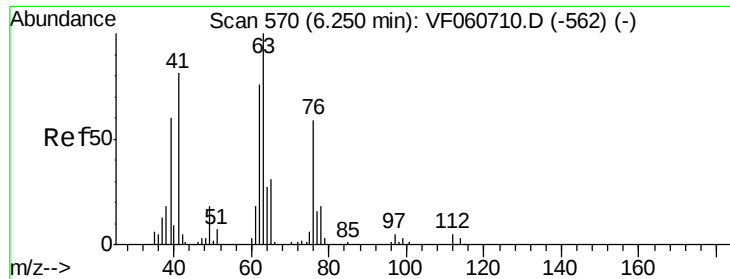
Tgt Ion: 130 Resp: 67917

Ion Ratio Lower Upper

130 100

95 105.6 0.0 212.6





#45

1,2-Dichloropropane

Concen: 21.10 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

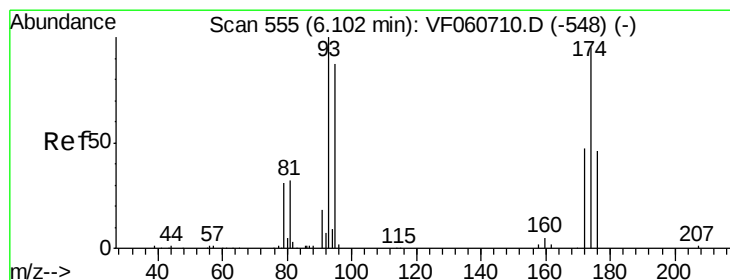
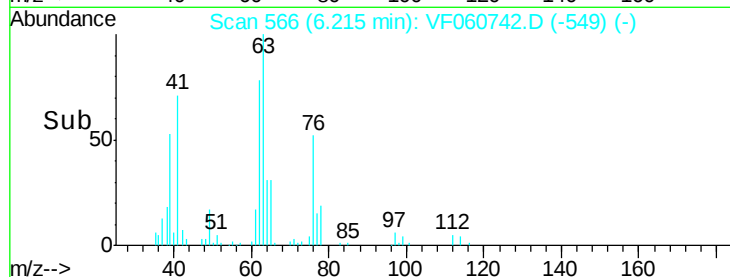
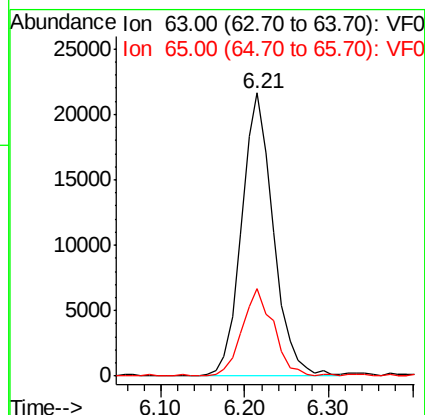
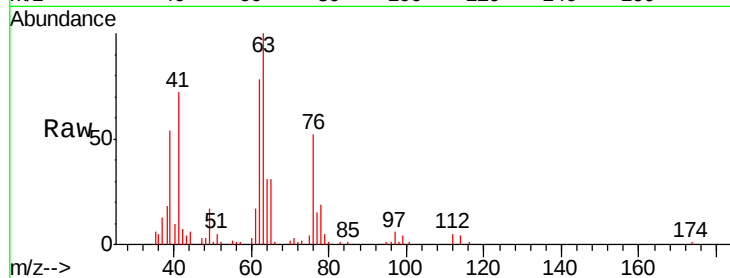
VF1115SBS01

Tgt Ion: 63 Resp: 56979

Ion Ratio Lower Upper

63 100

65 31.0 24.6 36.8



#46

Dibromomethane

Concen: 20.61 ug/l

RT: 6.07 min Scan# 551

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

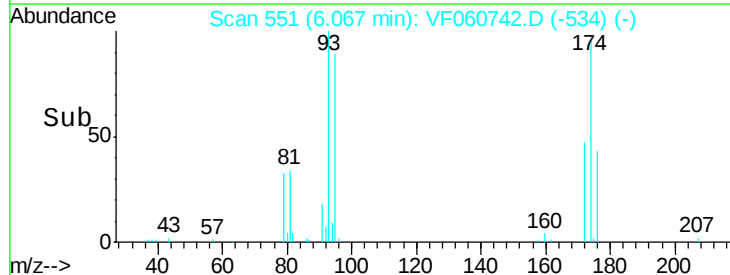
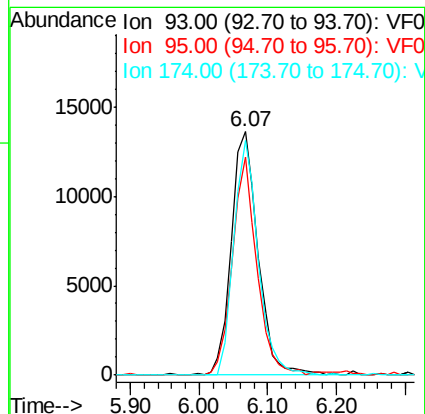
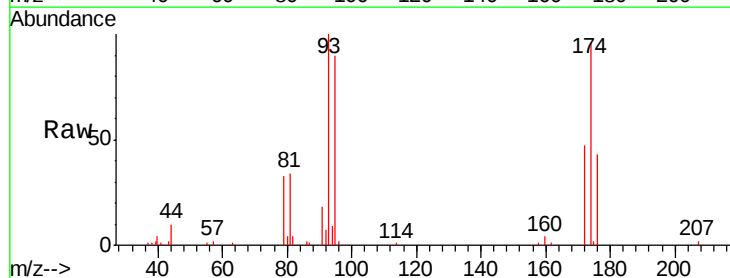
Tgt Ion: 93 Resp: 36730

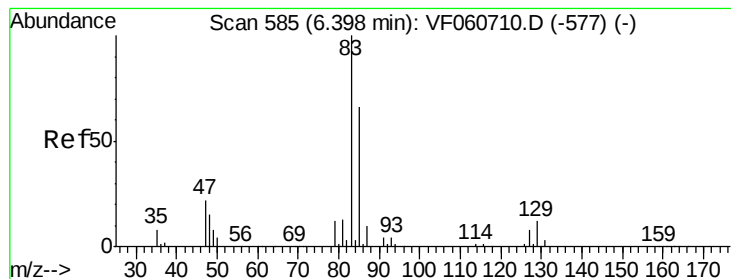
Ion Ratio Lower Upper

93 100

95 89.5 69.5 104.3

174 96.4 76.2 114.2





#47

Bromodichloromethane

Concen: 21.30 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBS01

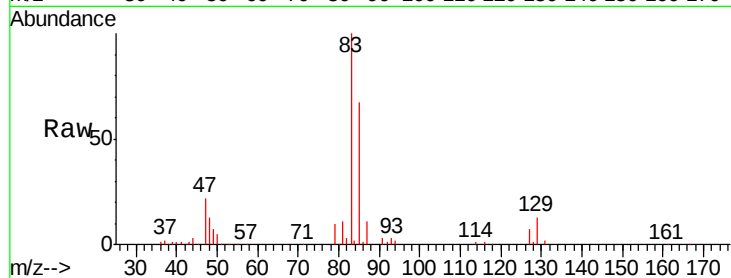
Tgt Ion: 83 Resp: 96930

Ion Ratio Lower Upper

83 100

85 66.6 52.4 78.6

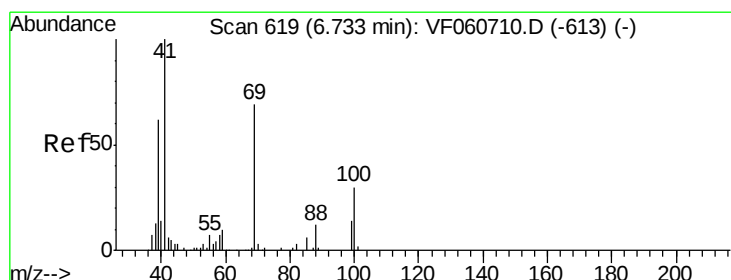
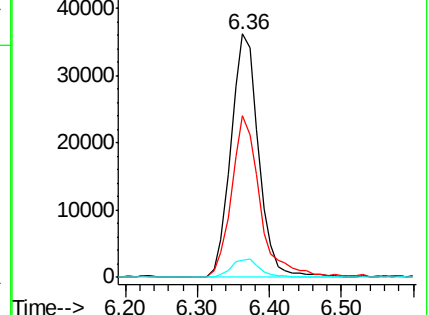
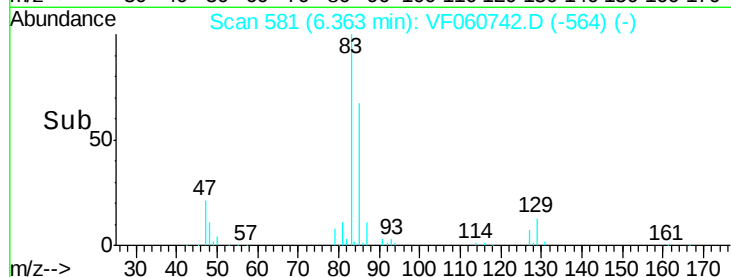
127 7.0 6.8 10.2



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: 21.96 ug/l

RT: 6.70 min Scan# 615

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

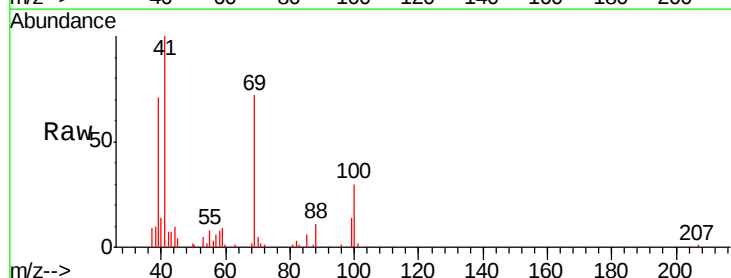
Tgt Ion: 41 Resp: 33349

Ion Ratio Lower Upper

41 100

69 72.0 54.9 82.3

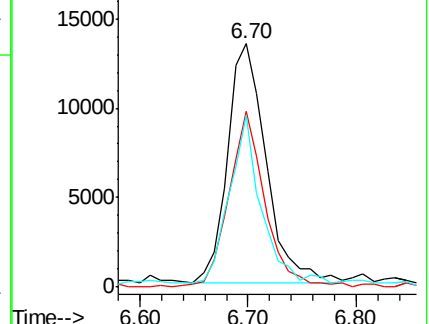
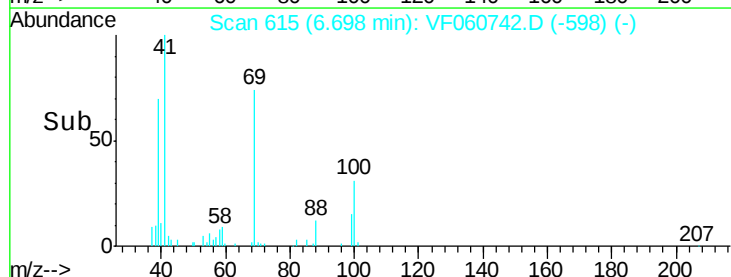
39 70.5 49.6 74.4

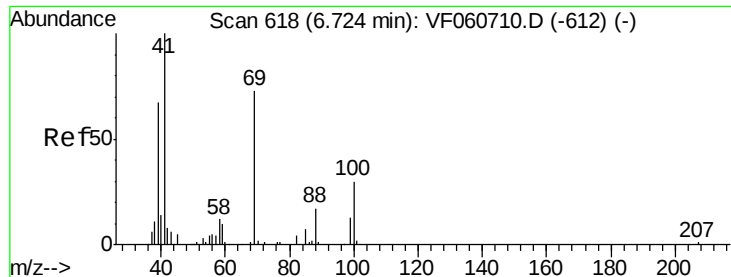


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

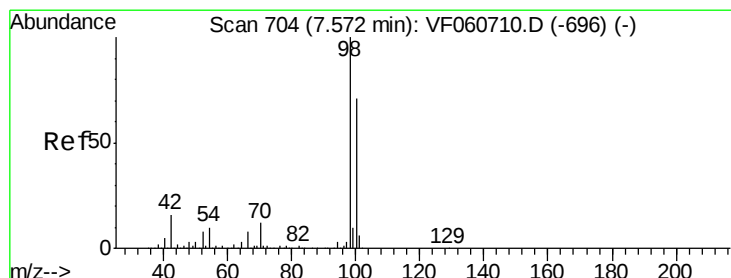
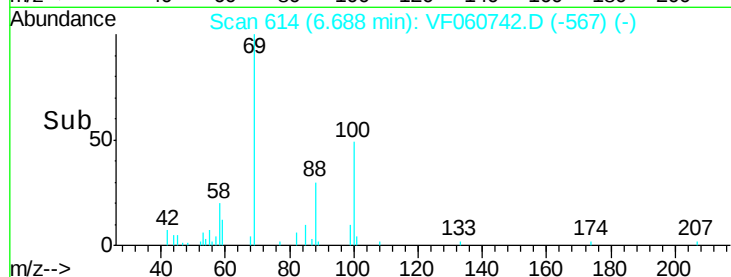
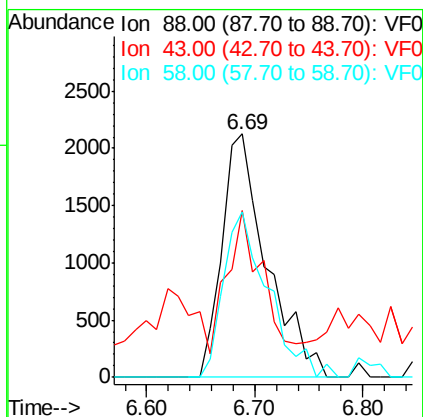
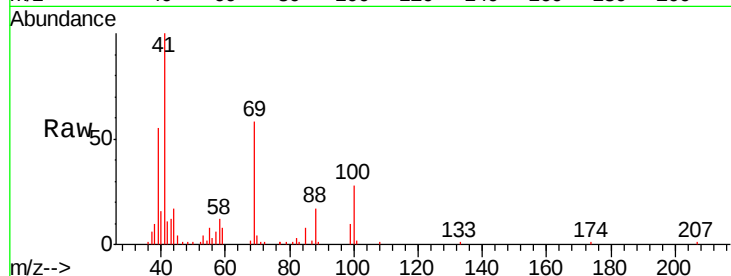




#49  
 1,4-Dioxane  
 Concen: 433.90 ug/l  
 RT: 6.69 min Scan# 614  
 Delta R.T. -0.04 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

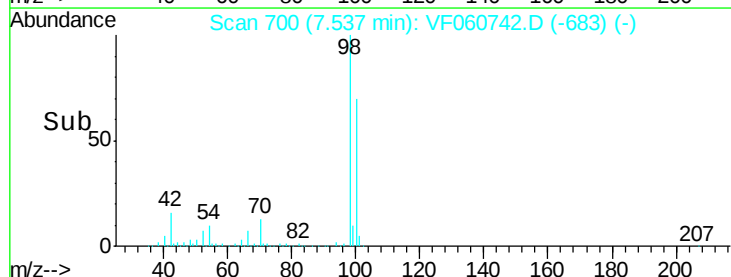
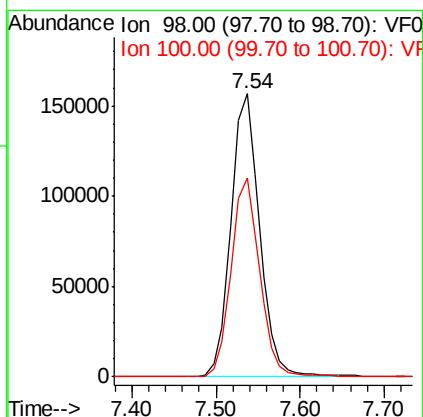
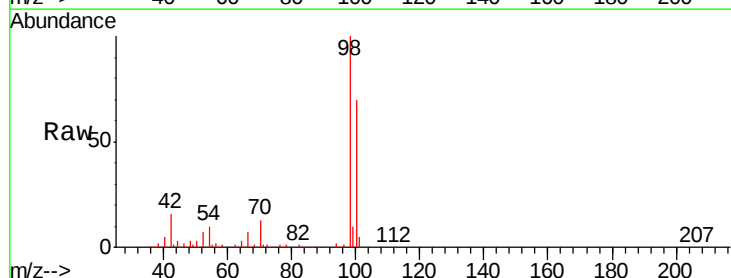
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBS01

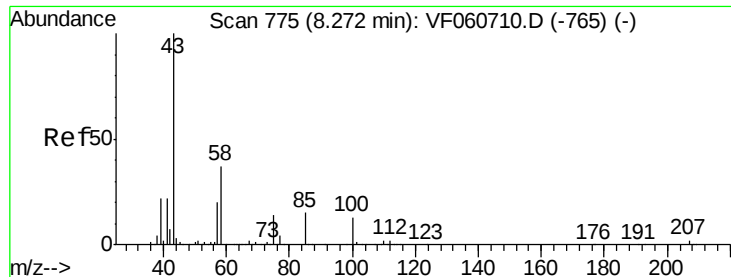
Tgt Ion: 88 Resp: 6162  
 Ion Ratio Lower Upper  
 88 100  
 43 68.5 44.6 66.8#  
 58 68.1 54.5 81.7



#50  
 Toluene-d8  
 Concen: 47.94 ug/l  
 RT: 7.54 min Scan# 700  
 Delta R.T. -0.03 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

Tgt Ion: 98 Resp: 372277  
 Ion Ratio Lower Upper  
 98 100  
 100 70.5 56.5 84.7





#51

4-Methyl-2-Pentanone

Concen: 113.51 ug/l

RT: 8.24 min Scan# 771

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

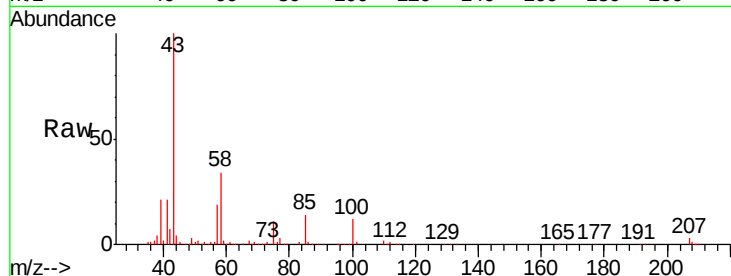
VF1115SBS01

Tgt Ion: 43 Resp: 188368

Ion Ratio Lower Upper

43 100

58 34.1 29.2 43.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.24

100000

80000

60000

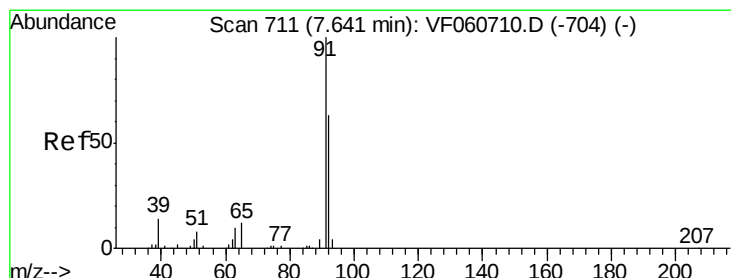
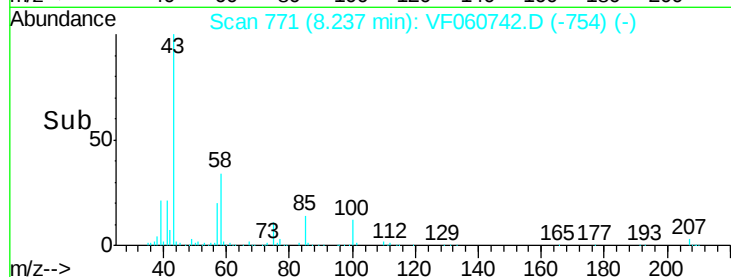
40000

20000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 20.20 ug/l

RT: 7.61 min Scan# 707

Delta R.T. -0.04 min

Lab File: VF060742.D

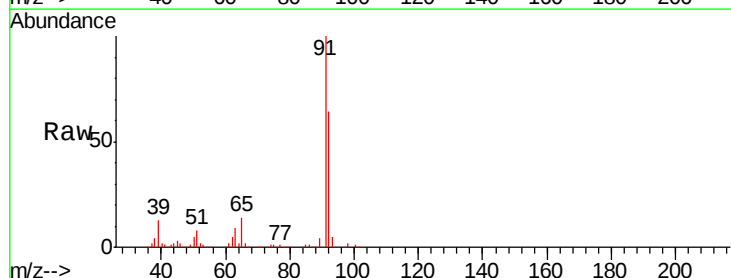
Acq: 15 Nov 2018 12:32

Tgt Ion: 92 Resp: 140429

Ion Ratio Lower Upper

92 100

91 155.7 126.7 190.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.61

100000

80000

60000

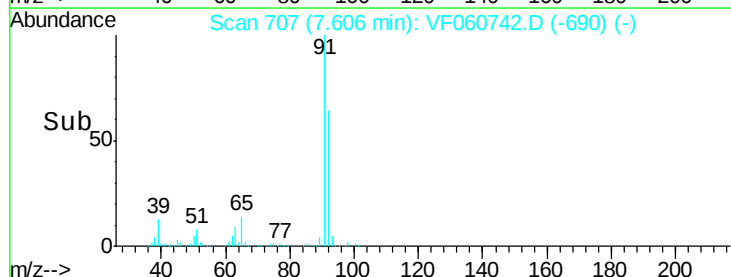
40000

20000

0

7.50 7.60 7.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 19.93 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

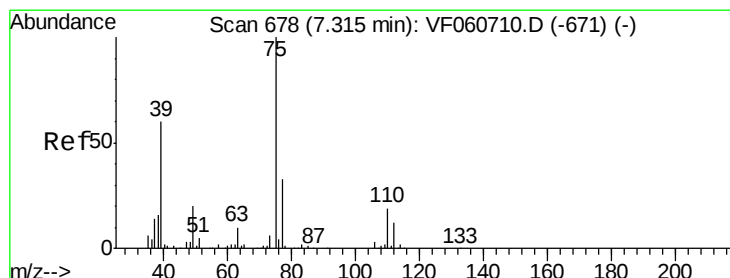
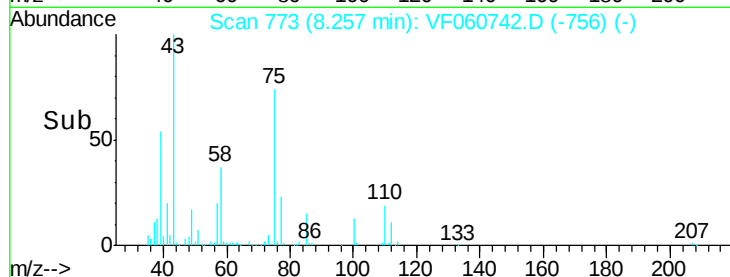
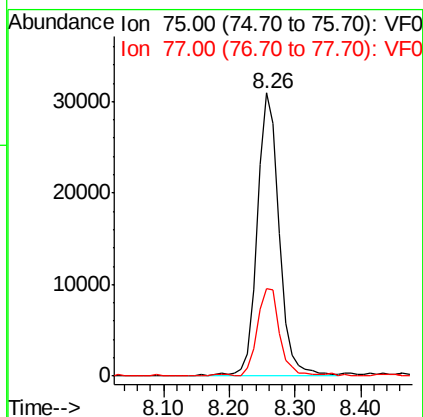
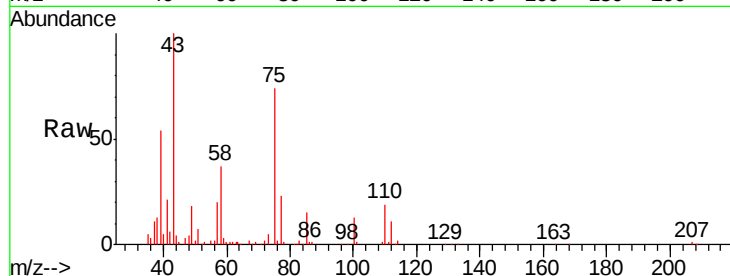
VF1115SBS01

Tgt Ion: 75 Resp: 72656

Ion Ratio Lower Upper

75 100

77 31.1 24.6 36.8



#54

cis-1,3-Dichloropropene

Concen: 20.52 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

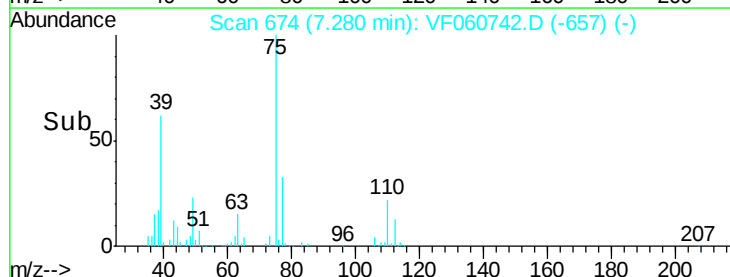
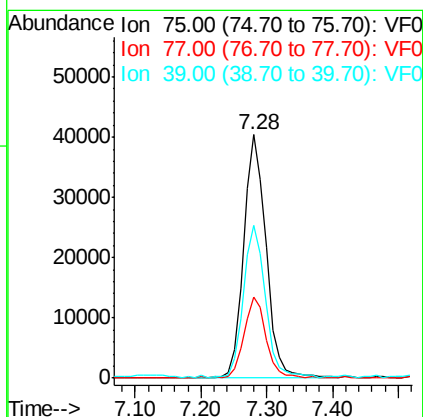
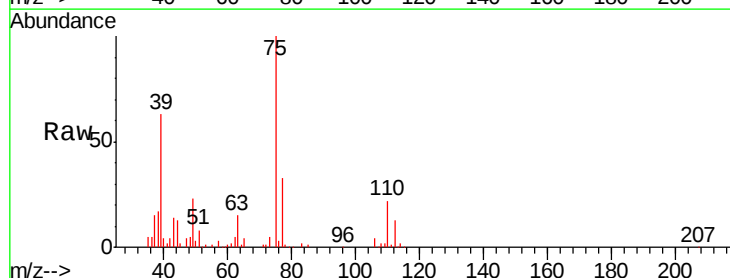
Tgt Ion: 75 Resp: 97181

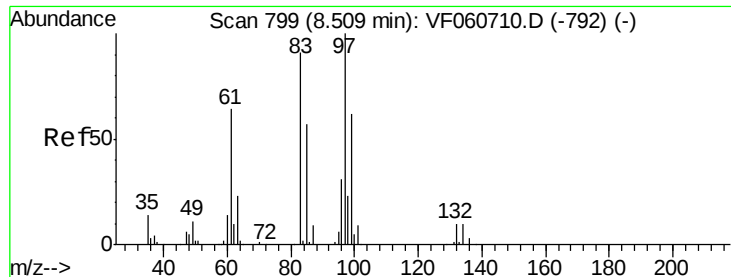
Ion Ratio Lower Upper

75 100

77 33.2 26.5 39.7

39 63.0 48.5 72.7





#55

1,1,2-Trichloroethane

Concen: 20.04 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBS01

Tgt Ion: 97 Resp: 39815

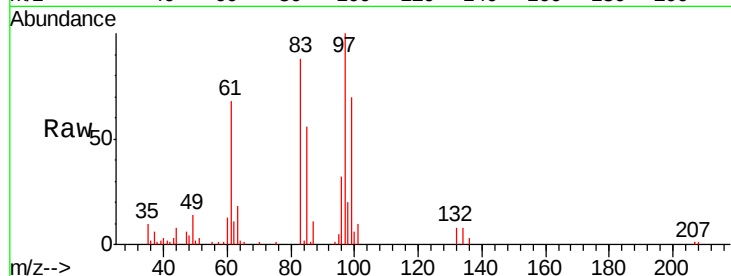
Ion Ratio Lower Upper

97 100

83 88.5 72.8 109.2

85 55.8 45.8 68.6

99 70.3 49.4 74.0

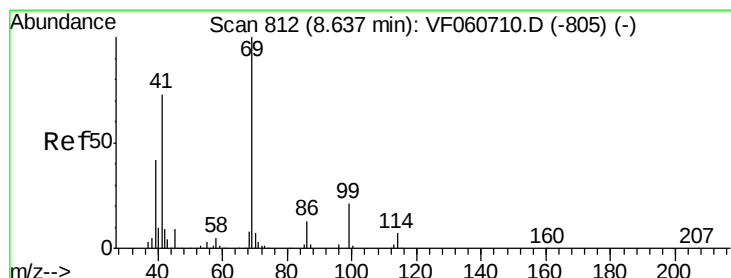
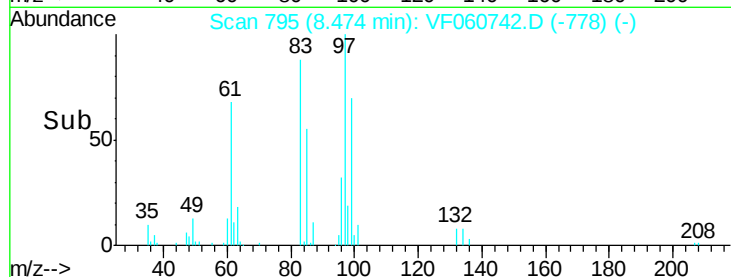
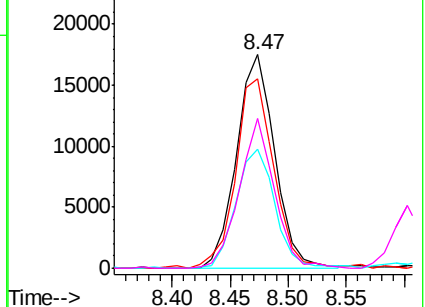


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 22.66 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

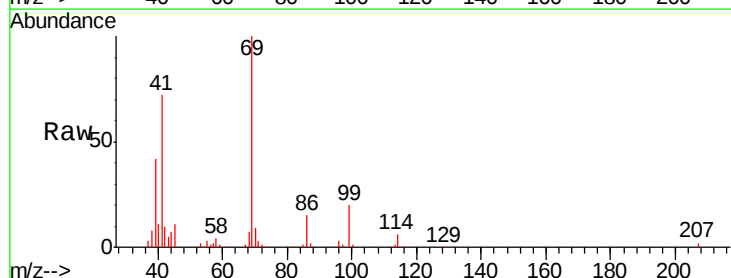
Tgt Ion: 69 Resp: 51128

Ion Ratio Lower Upper

69 100

41 71.7 59.0 88.6

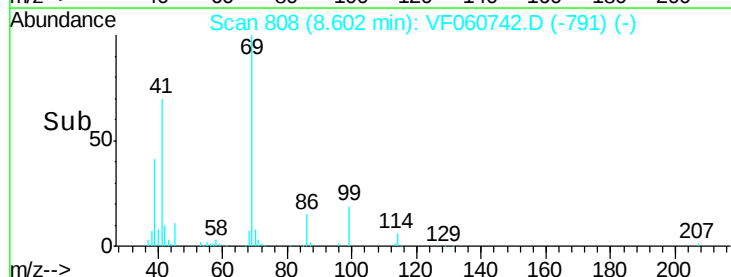
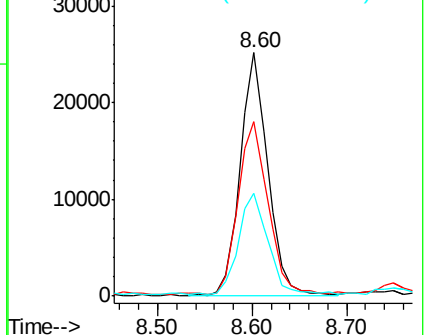
39 42.3 34.0 51.0

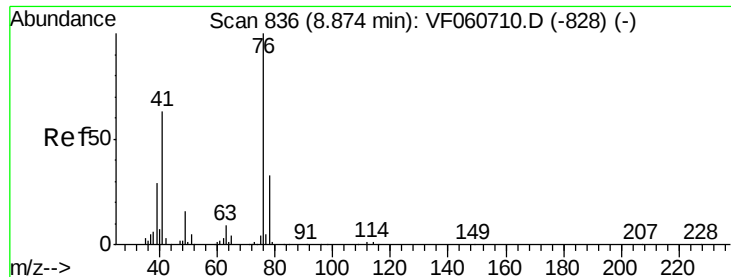


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.44 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

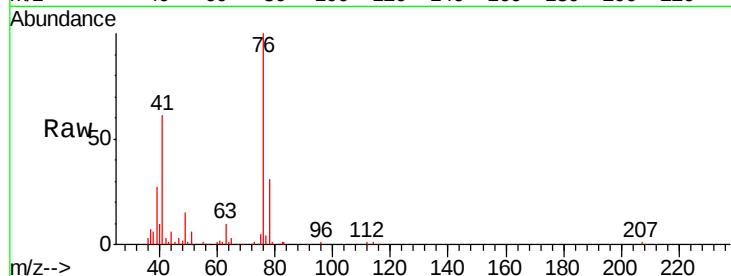
VF1115SBS01

Tgt Ion: 76 Resp: 73806

Ion Ratio Lower Upper

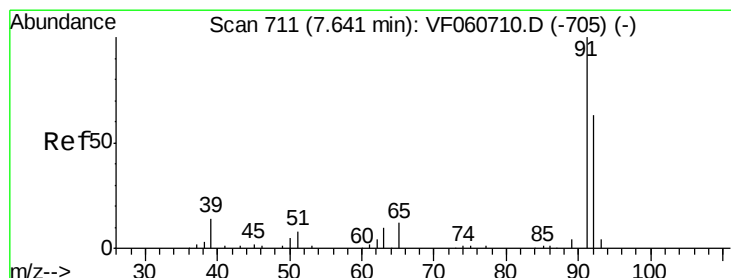
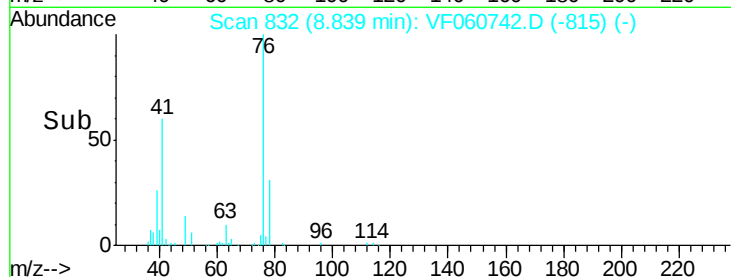
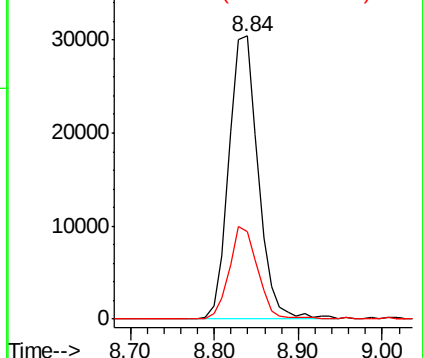
76 100

78 31.1 26.6 39.8



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: 100.10 ug/l

RT: 7.61 min Scan# 707

Delta R.T. -0.04 min

Lab File: VF060742.D

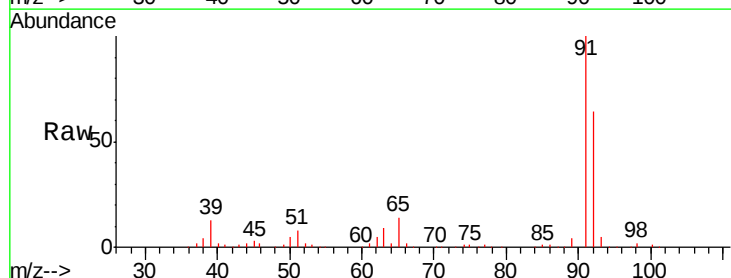
Acq: 15 Nov 2018 12:32

Tgt Ion: 63 Resp: 20630

Ion Ratio Lower Upper

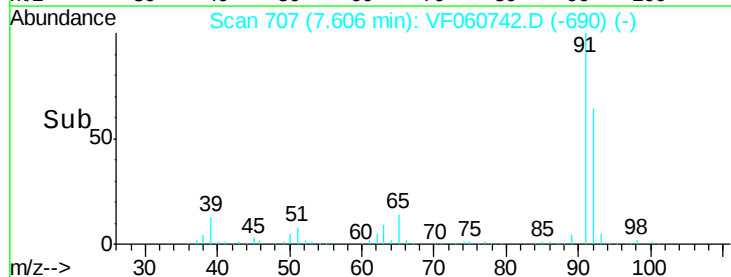
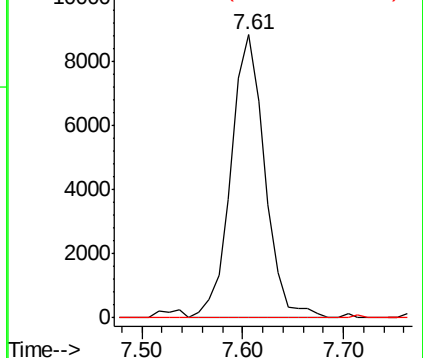
63 100

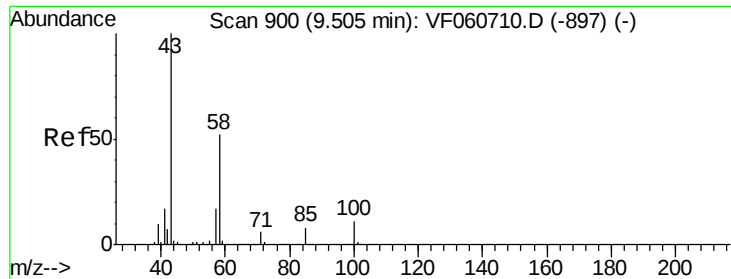
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

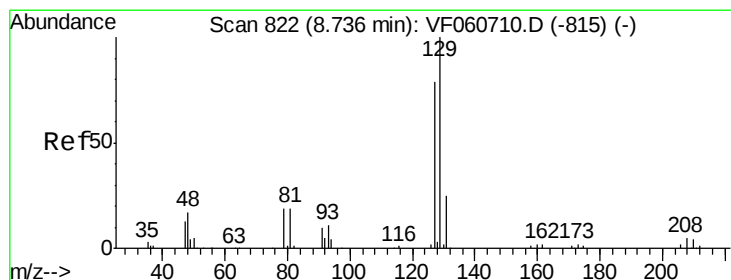
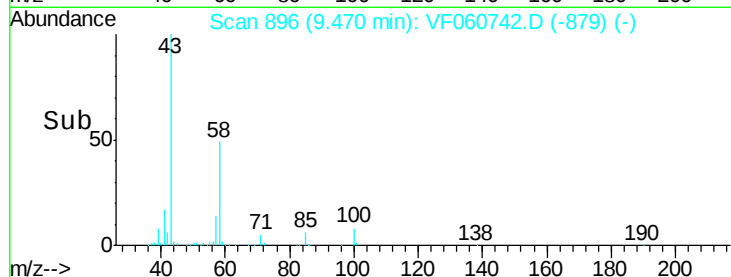
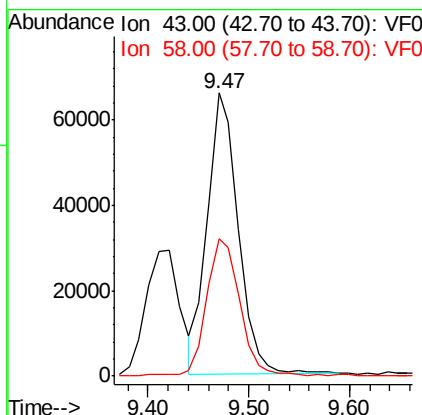
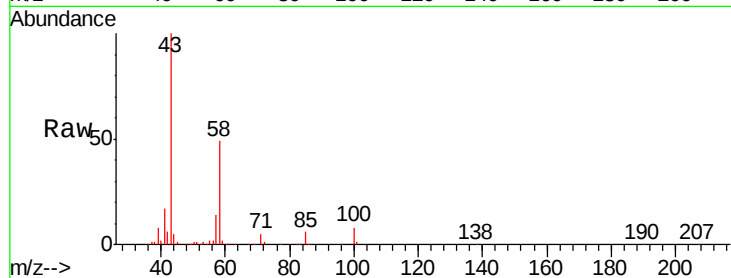




#59  
2-Hexanone  
Concen: 120.72 ug/l  
RT: 9.47 min Scan# 896  
Delta R.T. -0.04 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

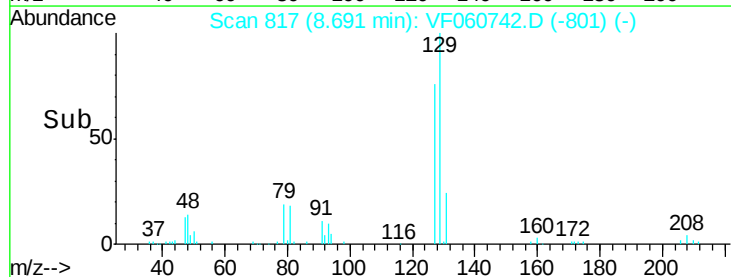
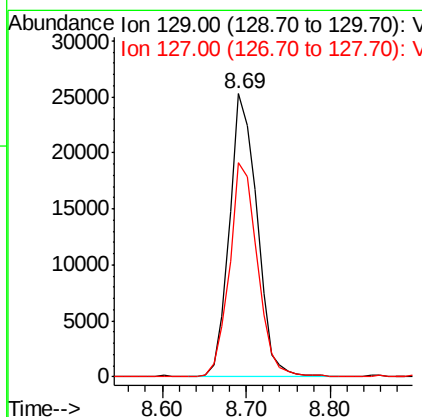
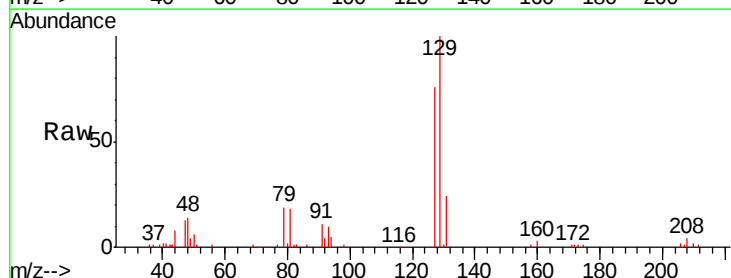
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1115SBS01

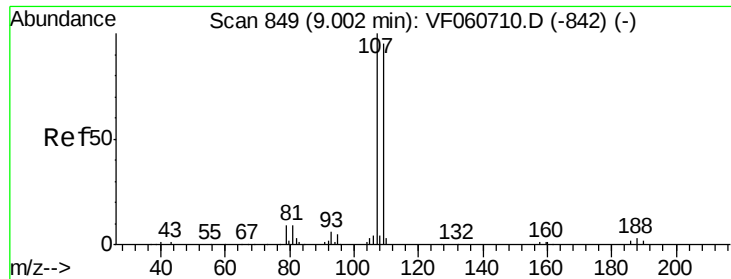
Tgt Ion: 43 Resp: 140779  
Ion Ratio Lower Upper  
43 100  
58 48.8 24.9 74.7



#60  
Dibromochloromethane  
Concen: 20.42 ug/l  
RT: 8.69 min Scan# 817  
Delta R.T. -0.05 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

Tgt Ion: 129 Resp: 57807  
Ion Ratio Lower Upper  
129 100  
127 75.5 39.7 119.1

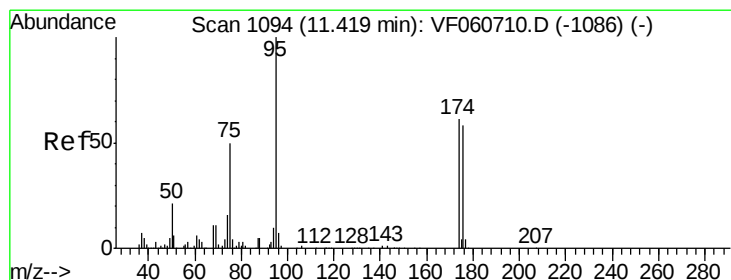
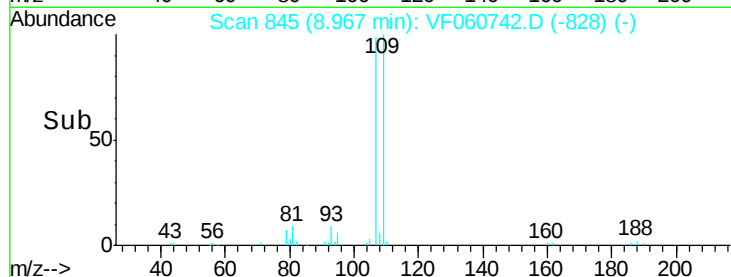
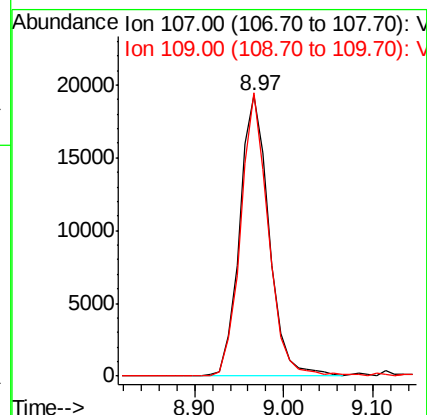
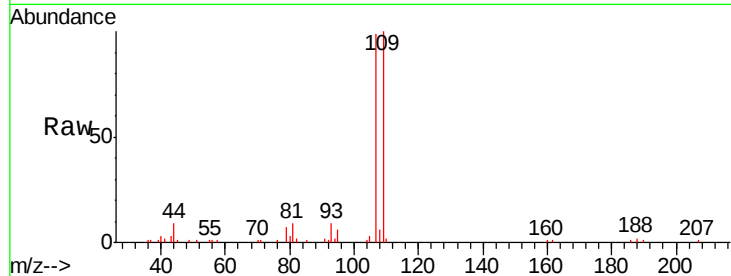




#61  
 1,2-Dibromoethane  
 Concen: 21.20 ug/l  
 RT: 8.97 min Scan# 845  
 Delta R.T. -0.04 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

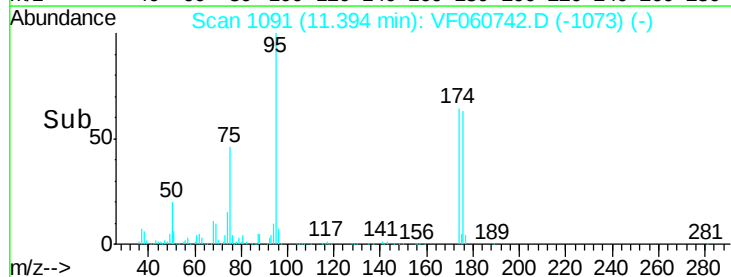
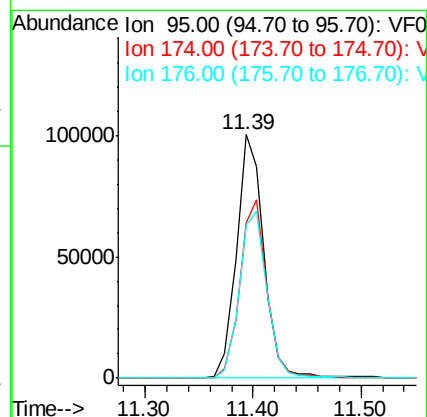
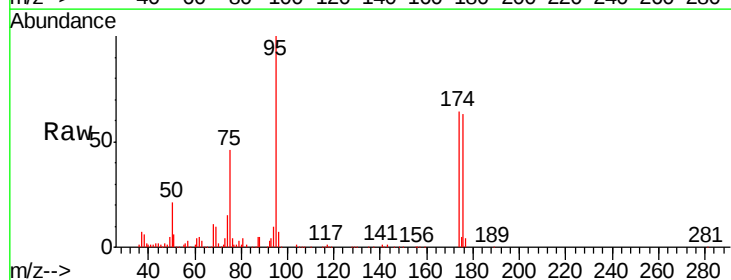
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBS01

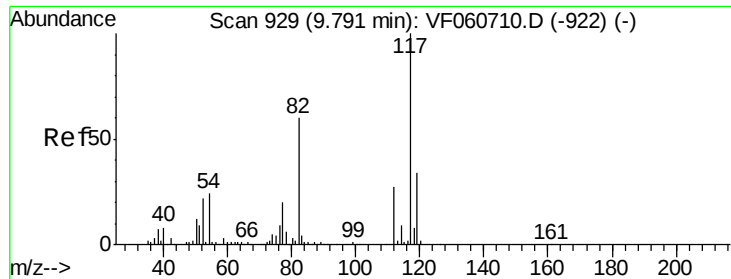
Tgt Ion: 107 Resp: 44296  
 Ion Ratio Lower Upper  
 107 100  
 109 101.0 75.9 113.9



#62  
 4-Bromofluorobenzene  
 Concen: 49.25 ug/l  
 RT: 11.39 min Scan# 1091  
 Delta R.T. -0.02 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

Tgt Ion: 95 Resp: 176037  
 Ion Ratio Lower Upper  
 95 100  
 174 63.8 0.0 121.6  
 176 63.0 0.0 115.2

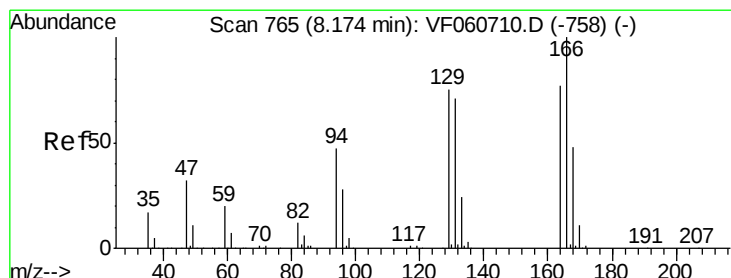
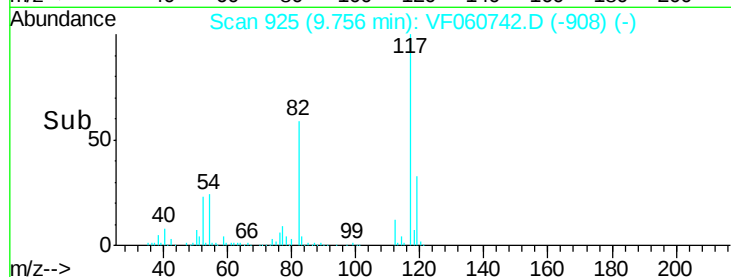
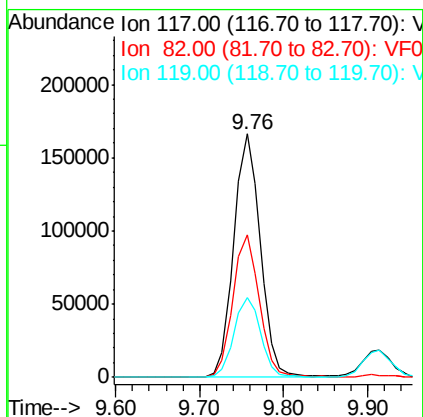
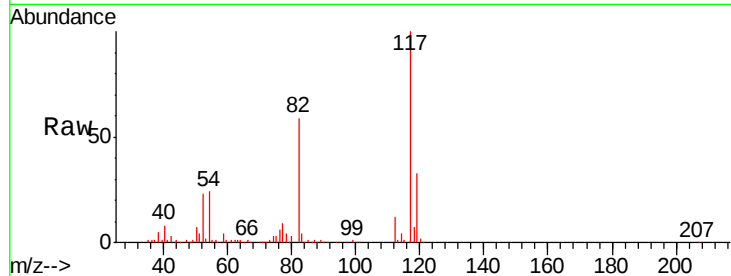




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.76 min Scan# 925  
Delta R.T. -0.04 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

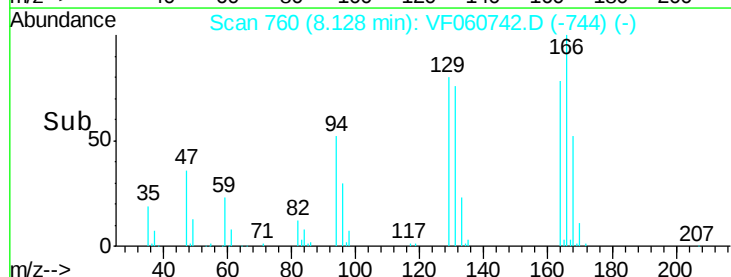
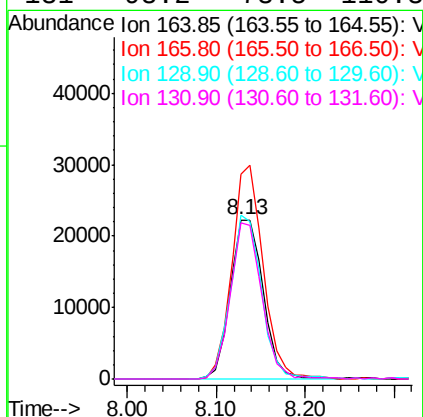
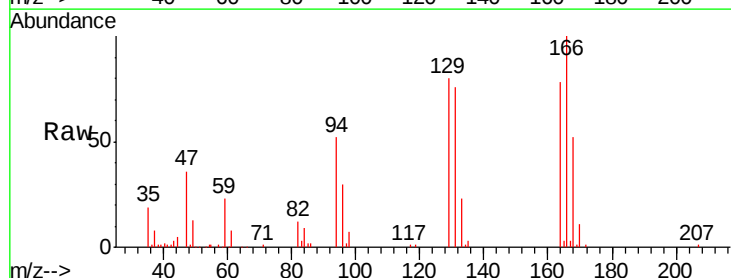
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1115SBS01

Tgt Ion:117 Resp: 369596  
Ion Ratio Lower Upper  
117 100  
82 58.6 47.9 71.9  
119 33.0 26.8 40.2



#64  
Tetrachloroethene  
Concen: 19.63 ug/l  
RT: 8.13 min Scan# 760  
Delta R.T. -0.05 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

Tgt Ion:164 Resp: 57451  
Ion Ratio Lower Upper  
164 100  
166 128.8 103.5 155.3  
129 102.7 77.4 116.2  
131 98.2 73.5 110.3

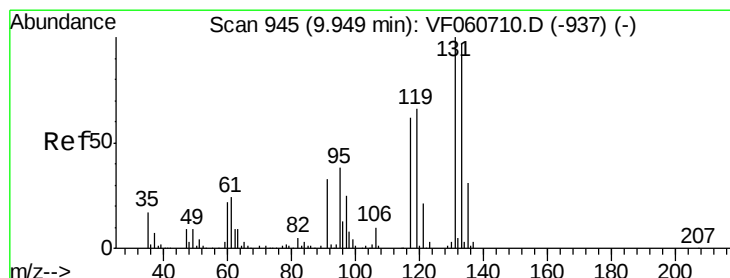
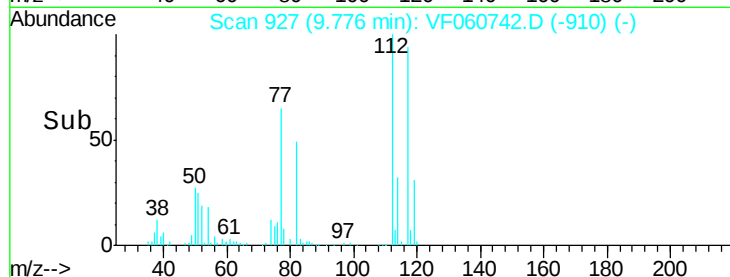
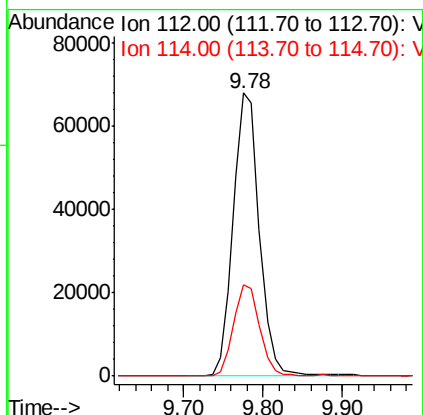
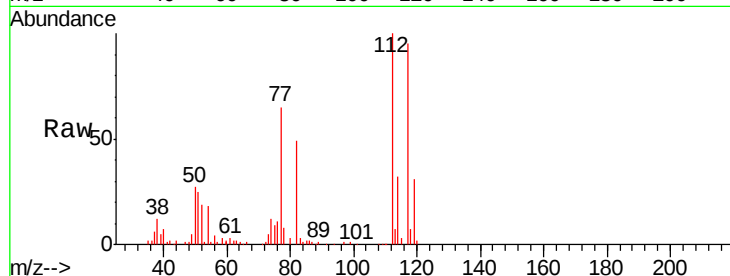




#65  
Chlorobenzene  
Concen: 21.05 ug/l  
RT: 9.78 min Scan# 927  
Delta R.T. -0.04 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

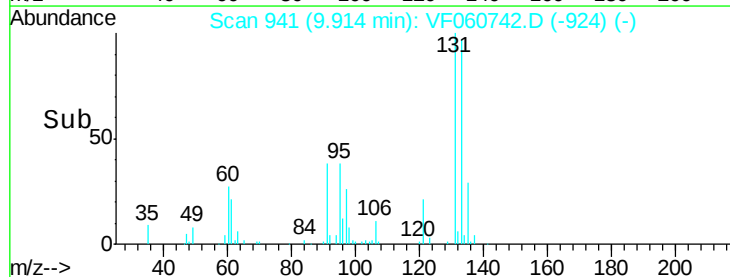
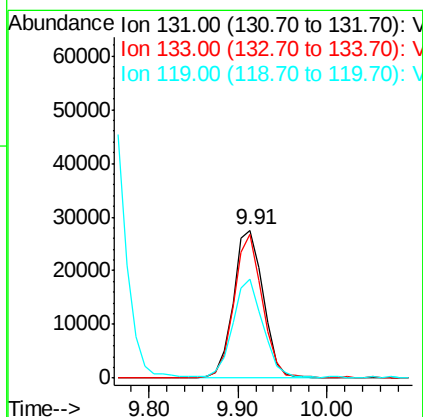
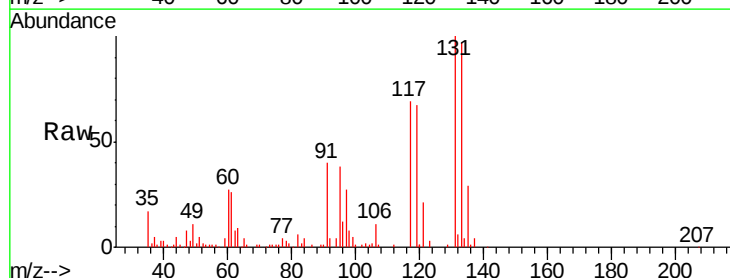
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1115SBS01

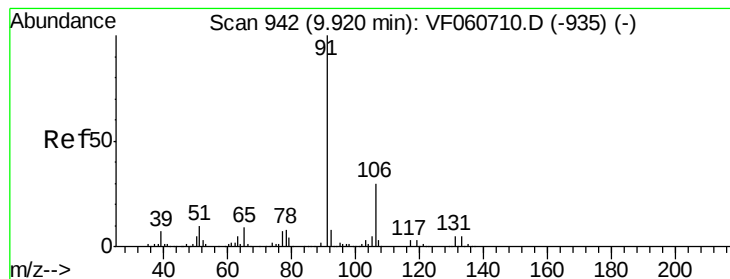
Tgt Ion:112 Resp: 156980  
Ion Ratio Lower Upper  
112 100  
114 32.3 26.1 39.1



#66  
1,1,1,2-Tetrachloroethane  
Concen: 19.91 ug/l  
RT: 9.91 min Scan# 941  
Delta R.T. -0.04 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

Tgt Ion:131 Resp: 64760  
Ion Ratio Lower Upper  
131 100  
133 96.9 48.3 144.8  
119 66.8 33.2 99.6





#67

Ethyl Benzene

Concen: 20.45 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

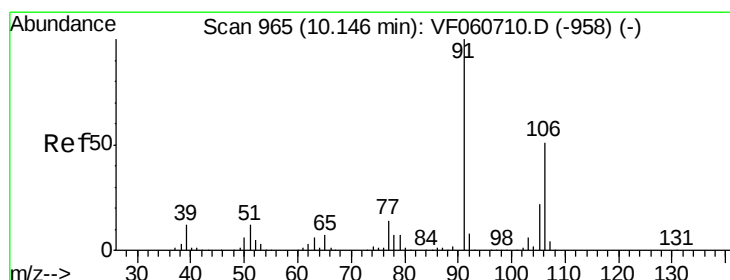
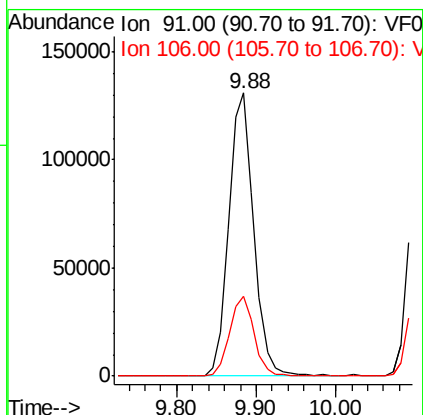
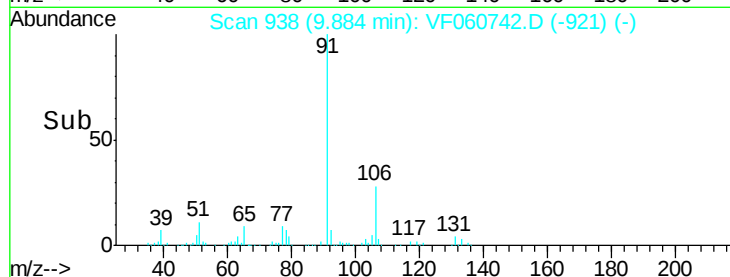
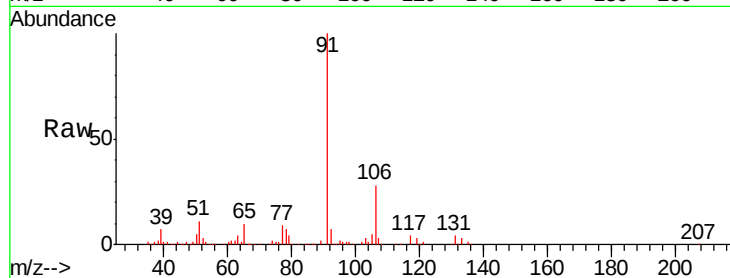
VF1115SBS01

Tgt Ion: 91 Resp: 287526

Ion Ratio Lower Upper

91 100

106 28.1 23.9 35.9



#68

m/p-Xylenes

Concen: 44.19 ug/l

RT: 10.11 min Scan# 961

Delta R.T. -0.04 min

Lab File: VF060742.D

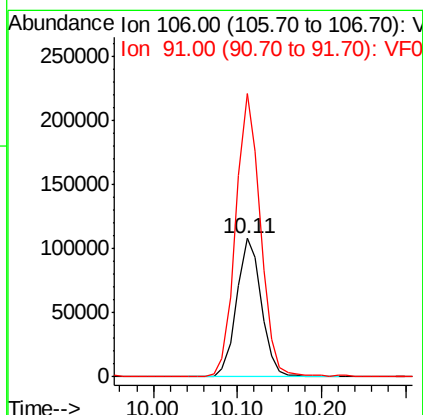
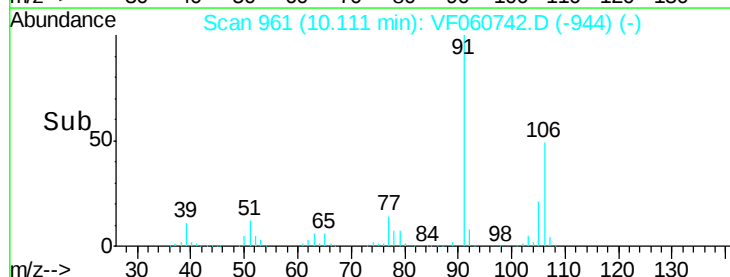
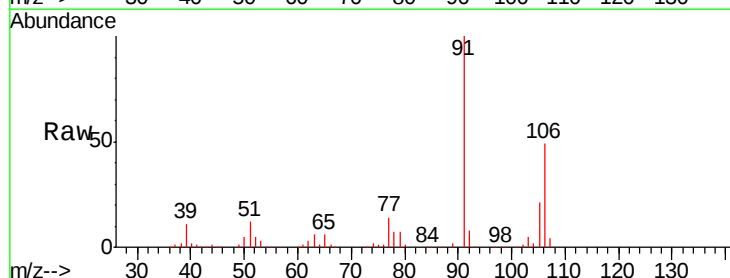
Acq: 15 Nov 2018 12:32

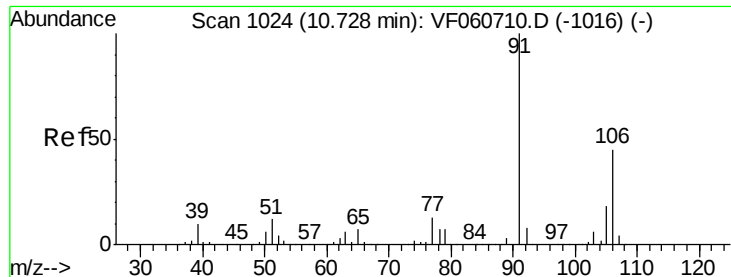
Tgt Ion: 106 Resp: 221991

Ion Ratio Lower Upper

106 100

91 204.3 158.2 237.2

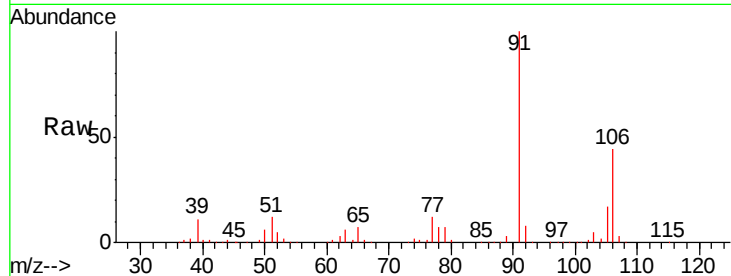




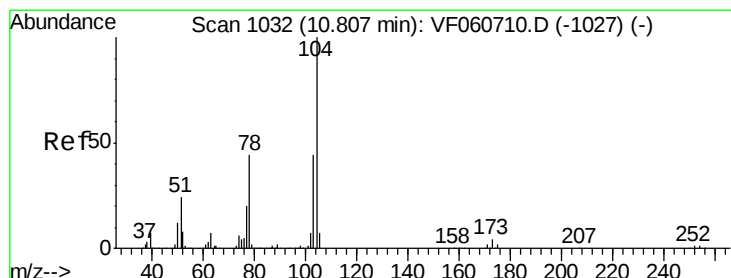
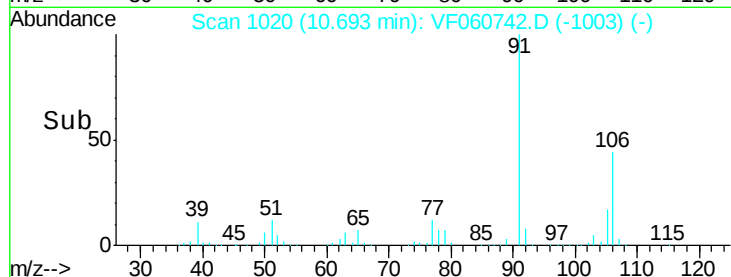
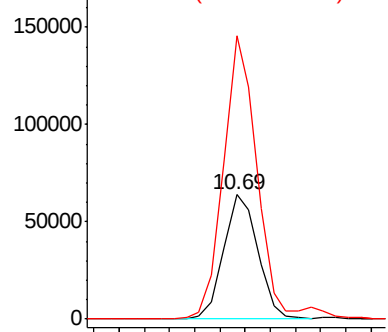
#69  
o-Xylene  
Concen: 21.54 ug/l  
RT: 10.69 min Scan# 1020  
Delta R.T. -0.04 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1115SBSD01

Tgt Ion:106 Resp: 121694  
Ion Ratio Lower Upper  
106 100  
91 227.1 110.3 330.9

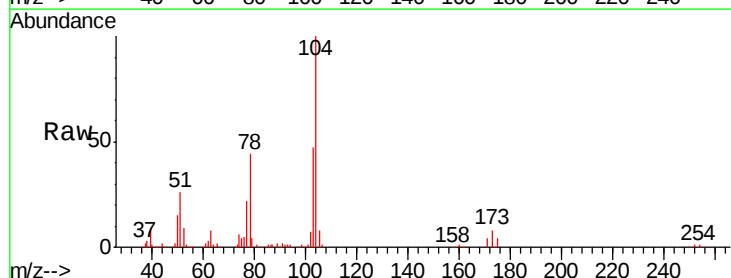


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VF0

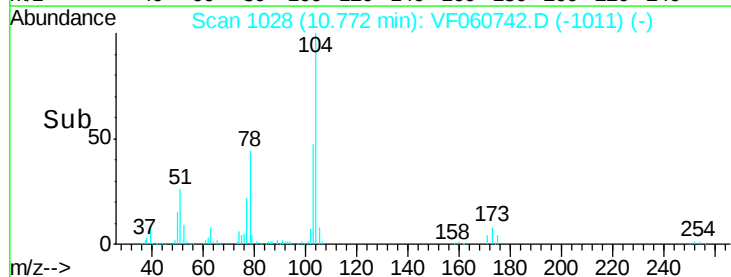
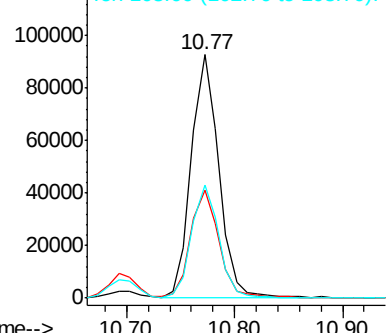


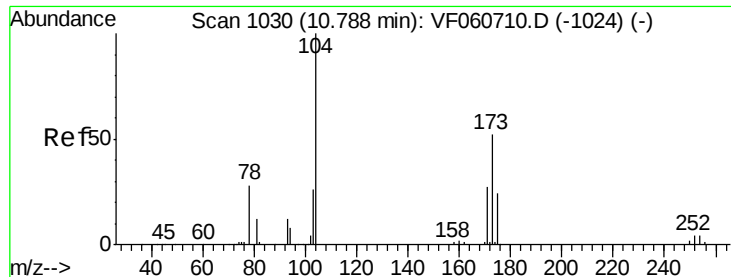
#70  
Styrene  
Concen: 21.43 ug/l  
RT: 10.77 min Scan# 1028  
Delta R.T. -0.04 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

Tgt Ion:104 Resp: 164266  
Ion Ratio Lower Upper  
104 100  
78 44.4 35.4 53.2  
103 46.5 35.8 53.6



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): VF0  
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 21.34 ug/l

RT: 10.75 min Scan# 1026

Delta R.T. -0.04 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBSD01

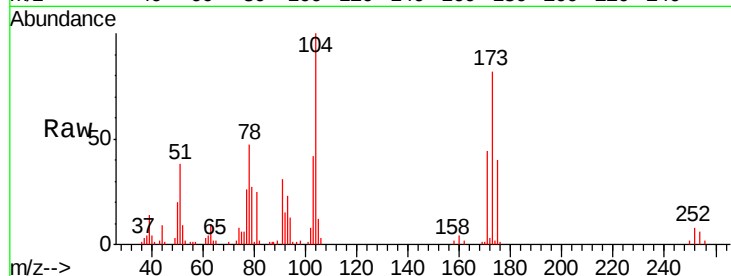
Tgt Ion:173 Resp: 31221

Ion Ratio Lower Upper

173 100

175 50.3 23.4 70.0

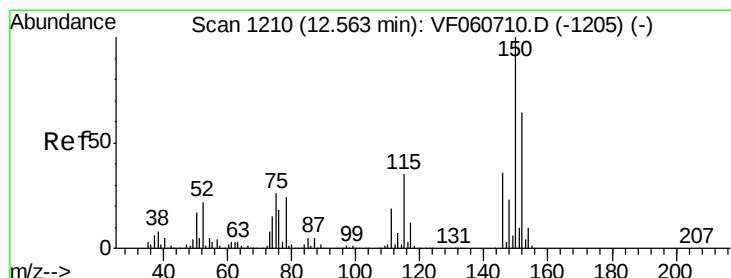
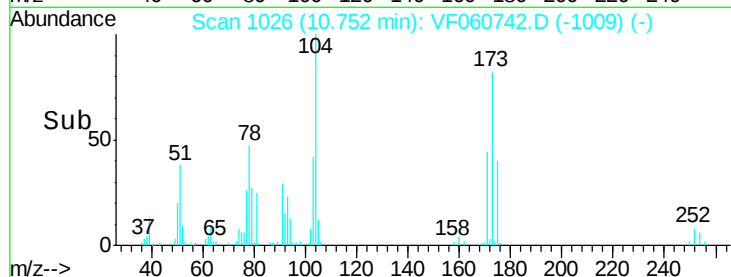
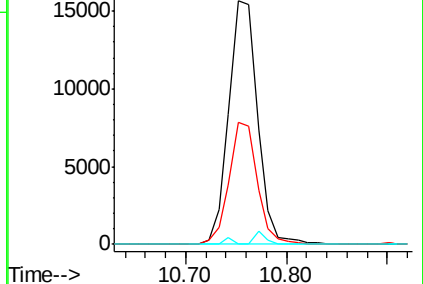
254 0.0 5.8 8.8#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.54 min Scan# 1207

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

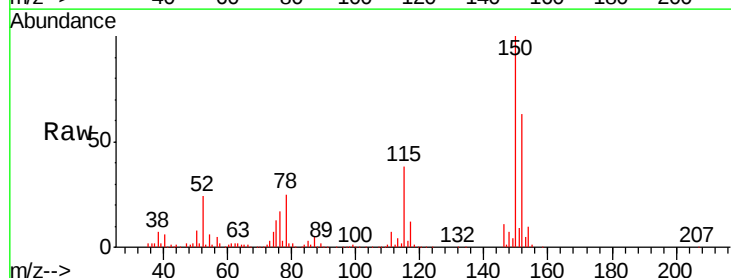
Tgt Ion:152 Resp: 196972

Ion Ratio Lower Upper

152 100

115 60.7 27.9 83.7

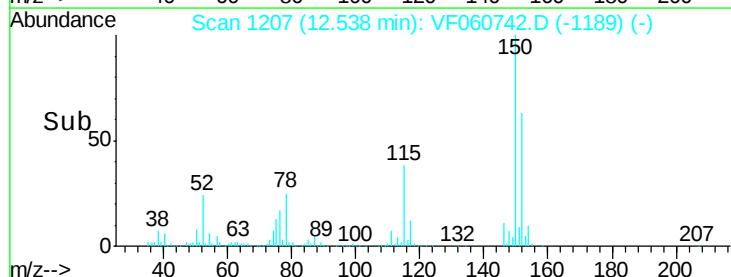
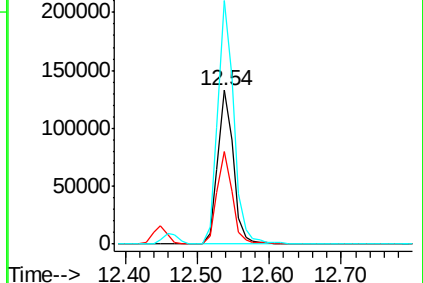
150 158.7 0.0 316.4

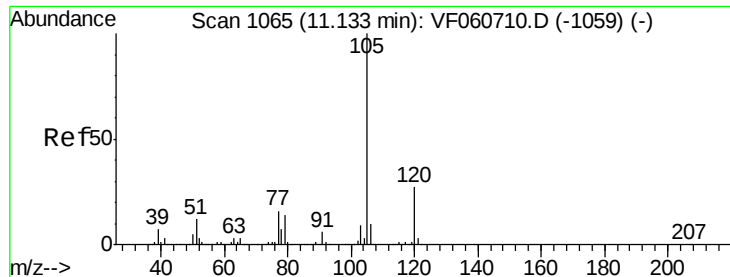


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.22 ug/l

RT: 11.11 min Scan# 1062

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

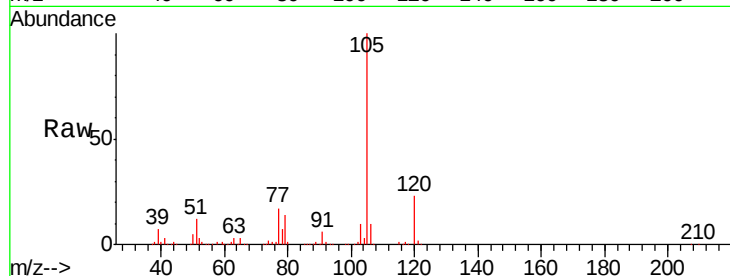
VF1115SBS01

Tgt Ion:105 Resp: 352322

Ion Ratio Lower Upper

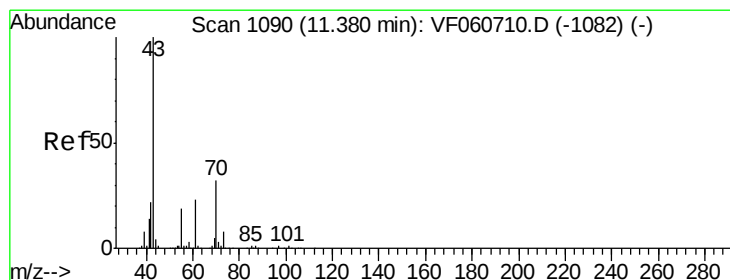
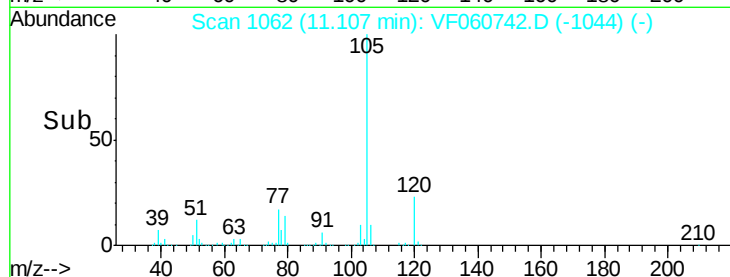
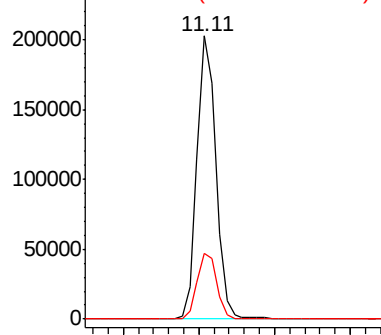
105 100

120 23.4 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 25.08 ug/l

RT: 11.35 min Scan# 1087

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Tgt Ion: 43 Resp: 90509

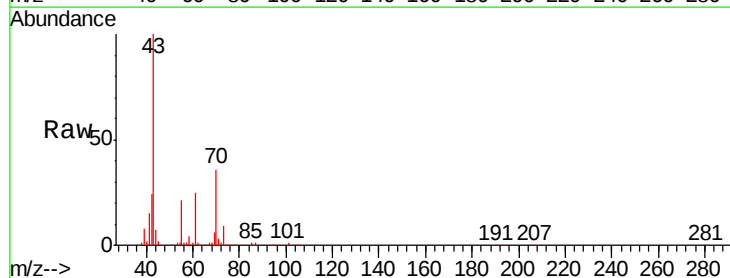
Ion Ratio Lower Upper

43 100

70 36.0 25.5 38.3

55 20.7 14.9 22.3

61 25.1 18.6 27.8

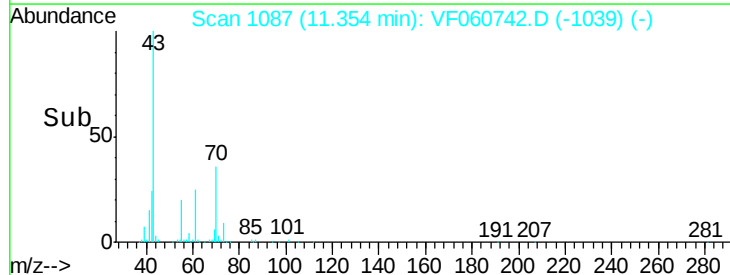
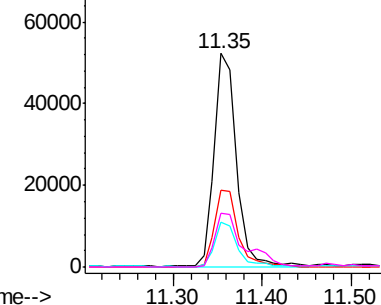


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 21.49 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBSD01

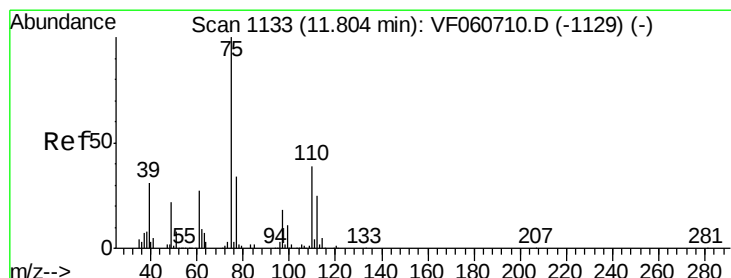
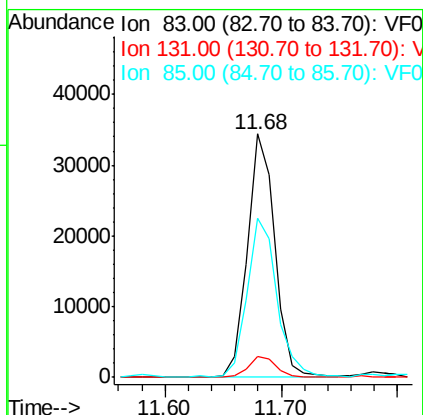
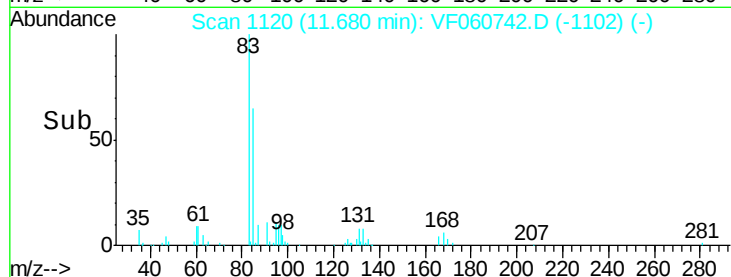
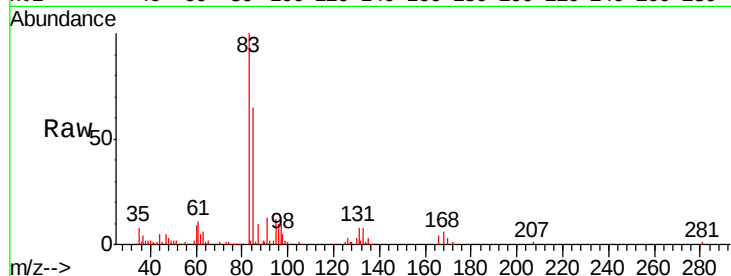
Tgt Ion: 83 Resp: 56327

Ion Ratio Lower Upper

83 100

131 8.4 4.2 12.4

85 65.4 32.0 96.2



#76

1,2,3-Trichloropropane

Concen: 21.98 ug/l

RT: 11.78 min Scan# 1130

Delta R.T. -0.03 min

Lab File: VF060742.D

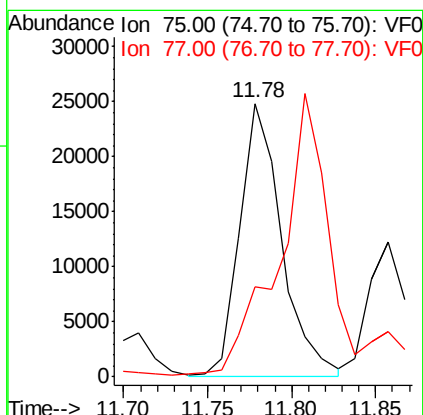
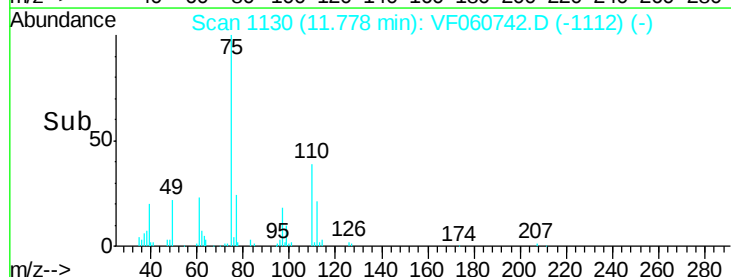
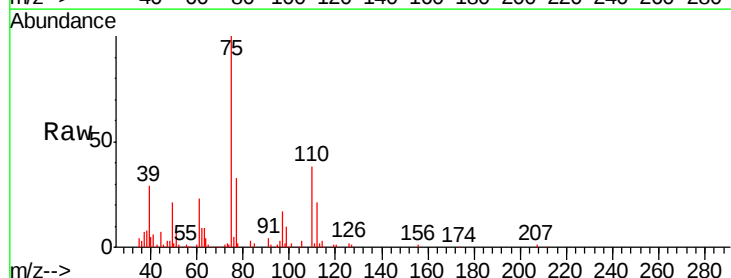
Acq: 15 Nov 2018 12:32

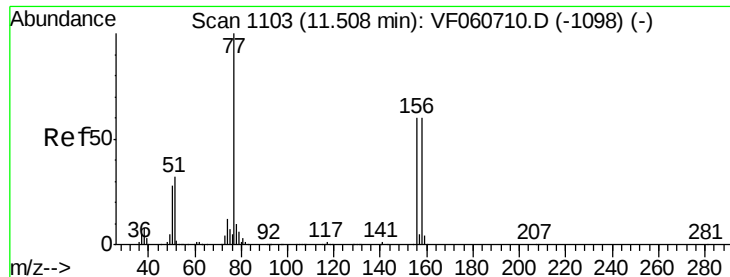
Tgt Ion: 75 Resp: 42789

Ion Ratio Lower Upper

75 100

77 32.9 17.0 51.0





#77

Bromobenzene

Concen: 22.97 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBS01

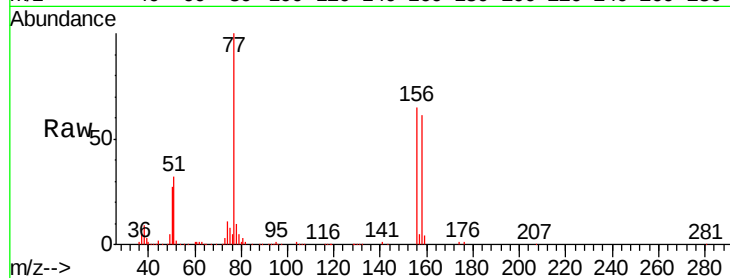
Tgt Ion:156 Resp: 75811

Ion Ratio Lower Upper

156 100

77 154.0 83.0 248.9

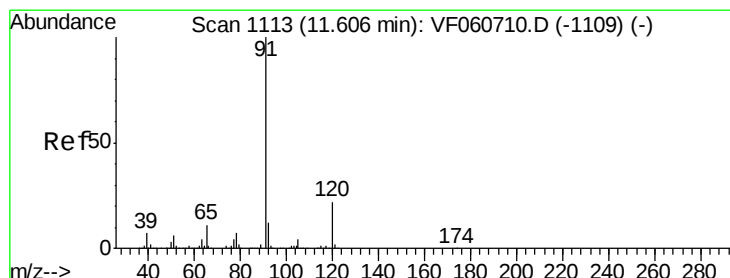
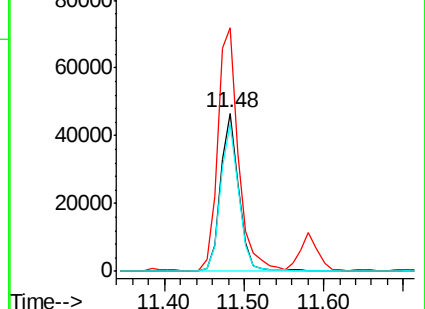
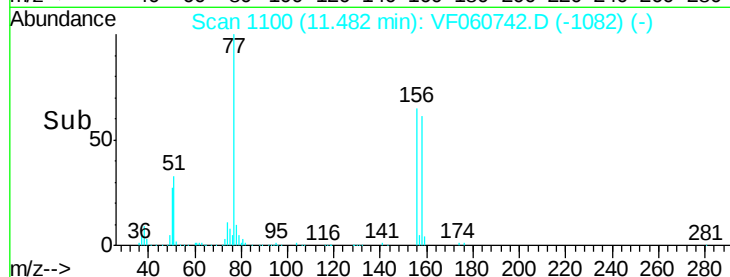
158 93.3 49.6 149.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 22.64 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.03 min

Lab File: VF060742.D

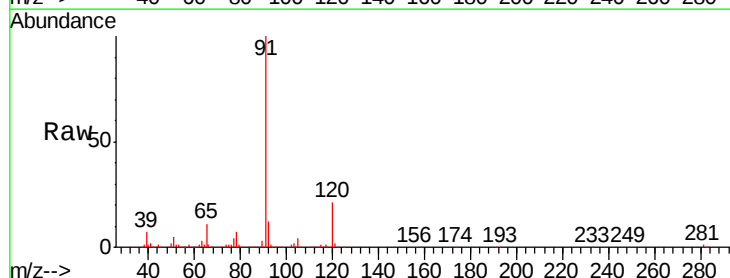
Acq: 15 Nov 2018 12:32

Tgt Ion: 91 Resp: 418690

Ion Ratio Lower Upper

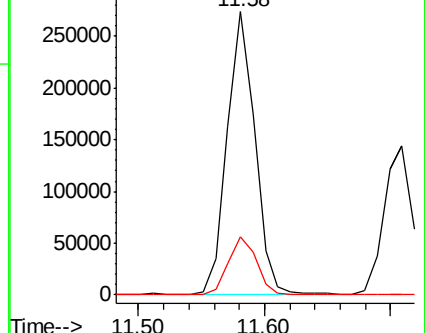
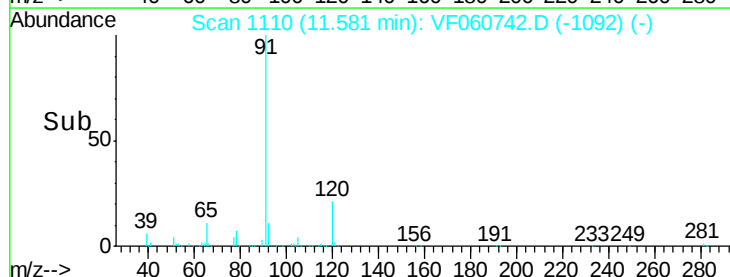
91 100

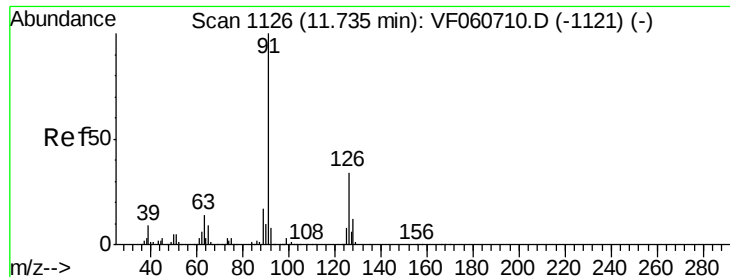
120 20.8 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.22 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

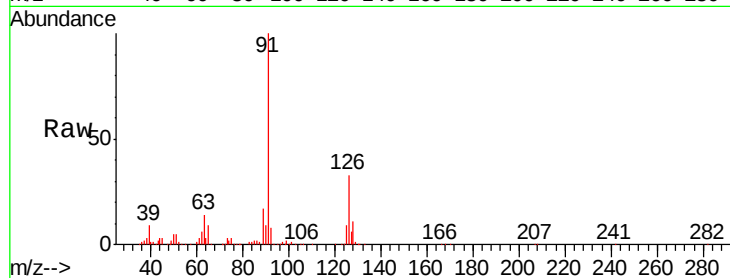
VF1115SBSD01

Tgt Ion: 91 Resp: 228096

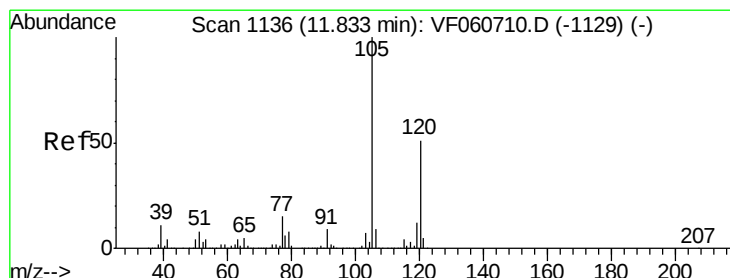
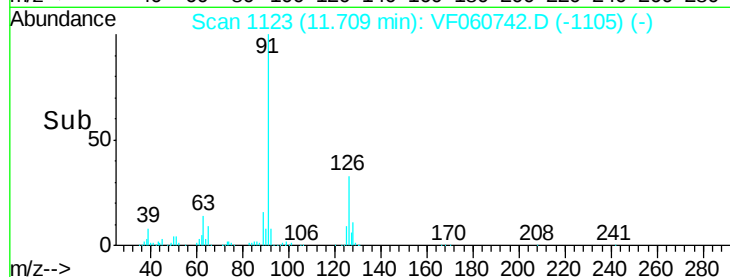
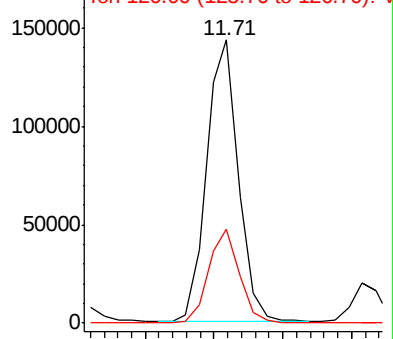
Ion Ratio Lower Upper

91 100

126 33.2 16.8 50.4



Abundance Ion 91.00 (90.70 to 91.70): VF060710.D (-1121) (-)



#80

1,3,5-Trimethylbenzene

Concen: 22.87 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. -0.03 min

Lab File: VF060742.D

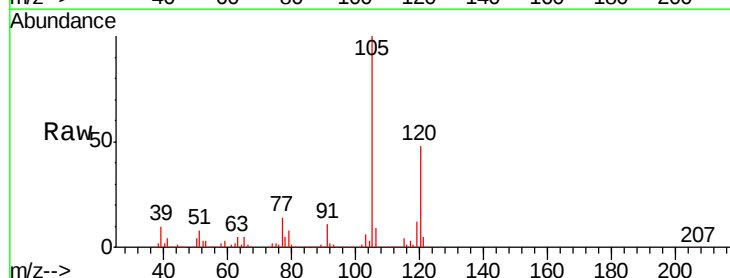
Acq: 15 Nov 2018 12:32

Tgt Ion: 105 Resp: 287859

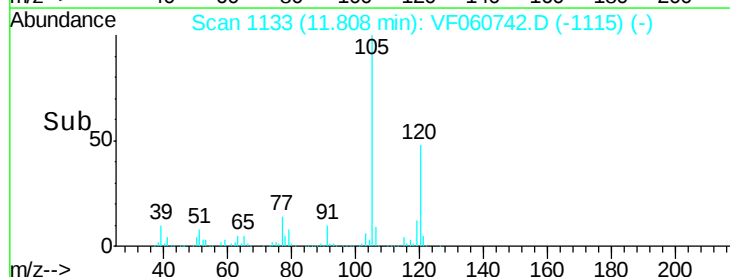
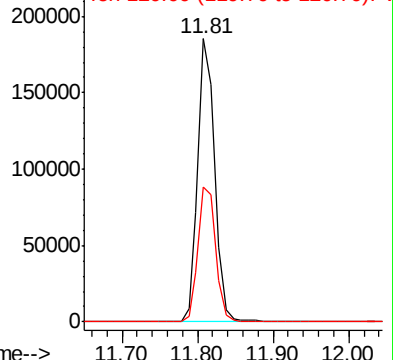
Ion Ratio Lower Upper

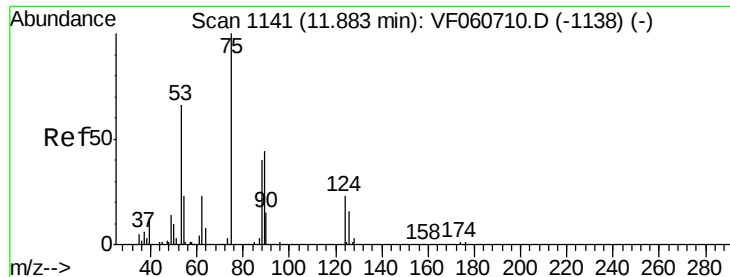
105 100

120 47.7 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VF060710.D (-1129) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 28.02 ug/l

RT: 11.86 min Scan# 1138

Delta R.T. -0.03 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBSD01

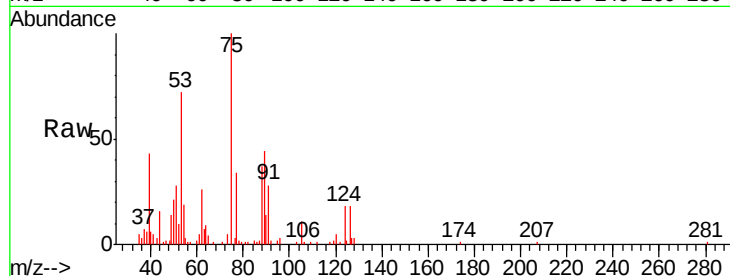
Tgt Ion: 75 Resp: 26801

Ion Ratio Lower Upper

75 100

53 72.3 57.0 85.4

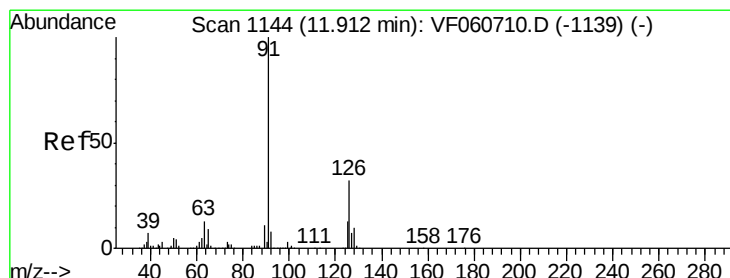
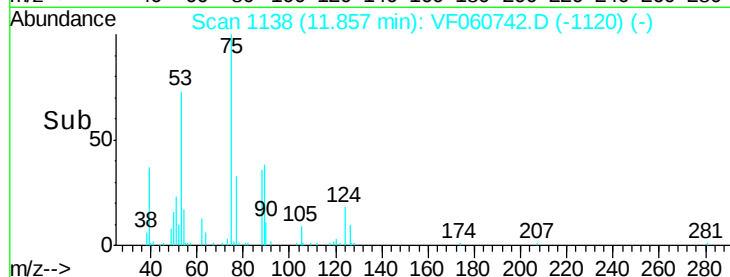
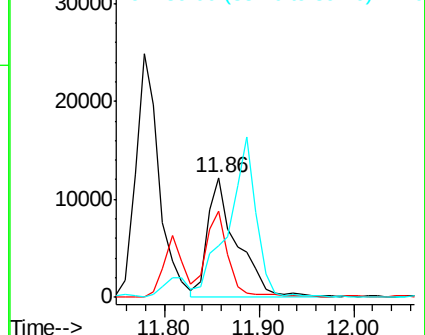
89 43.7 37.8 56.8



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: 21.07 ug/l

RT: 11.89 min Scan# 1141

Delta R.T. -0.03 min

Lab File: VF060742.D

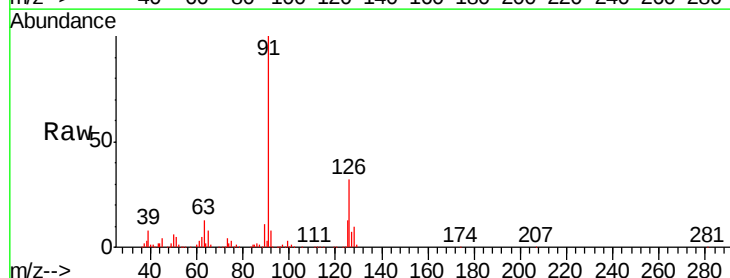
Acq: 15 Nov 2018 12:32

Tgt Ion: 91 Resp: 231961

Ion Ratio Lower Upper

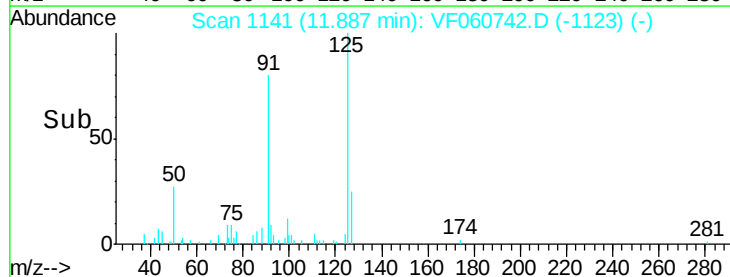
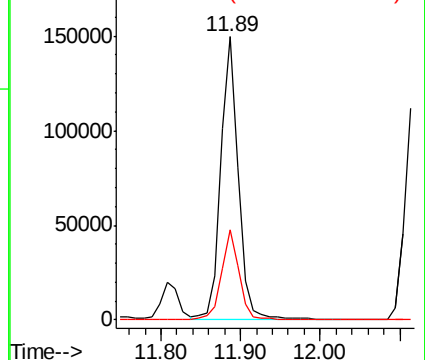
91 100

126 31.6 16.0 47.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

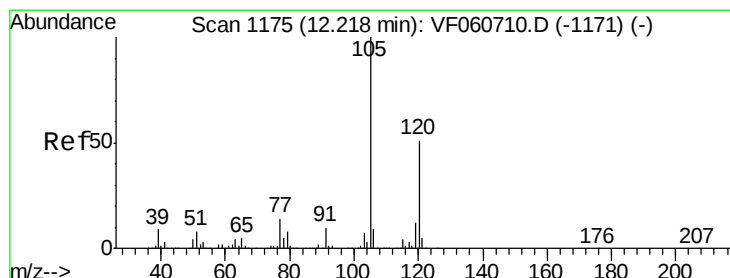
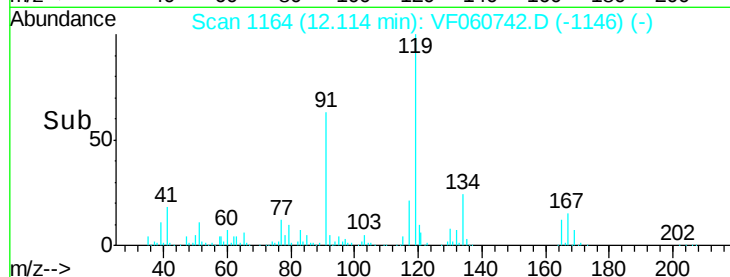
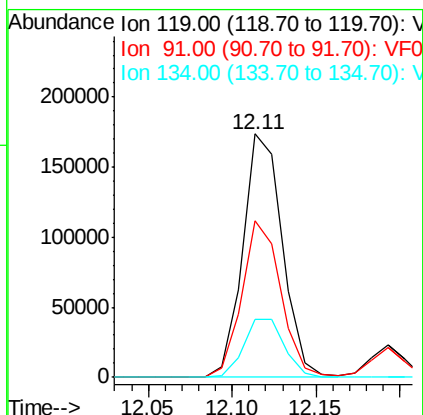
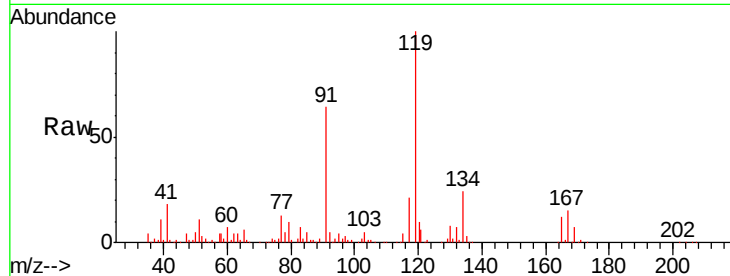




#83  
 tert-Butylbenzene  
 Concen: 21.25 ug/l  
 RT: 12.11 min Scan# 1164  
 Delta R.T. -0.03 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

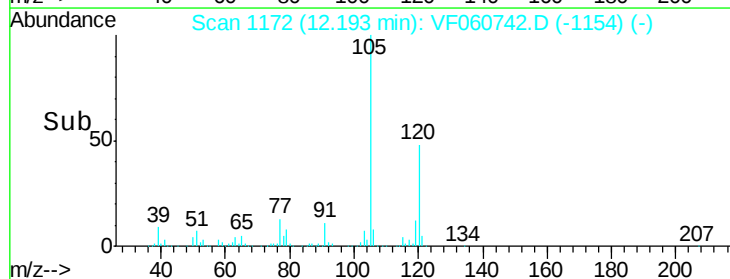
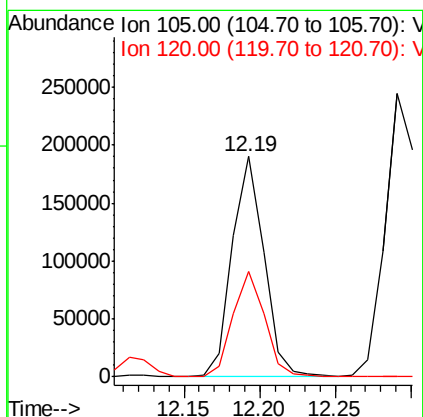
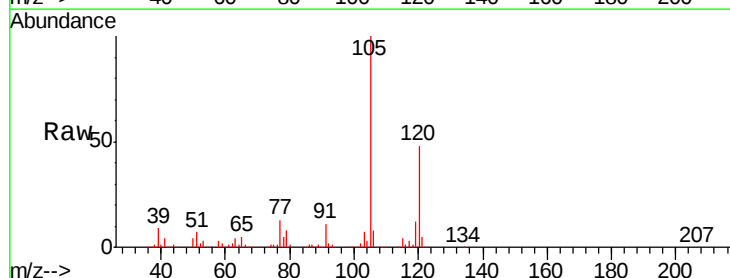
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBS01

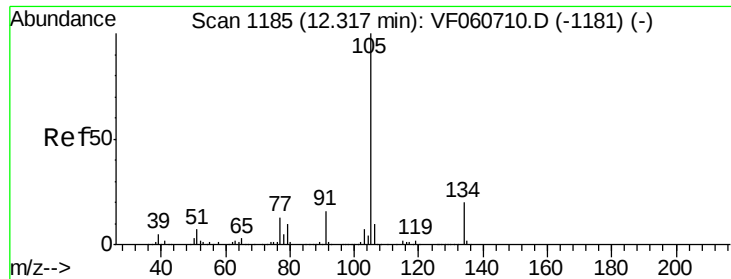
Tgt Ion:119 Resp: 284050  
 Ion Ratio Lower Upper  
 119 100  
 91 64.4 31.4 94.3  
 134 23.8 12.8 38.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 21.47 ug/l  
 RT: 12.19 min Scan# 1172  
 Delta R.T. -0.03 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

Tgt Ion:105 Resp: 279493  
 Ion Ratio Lower Upper  
 105 100  
 120 48.1 25.5 76.5

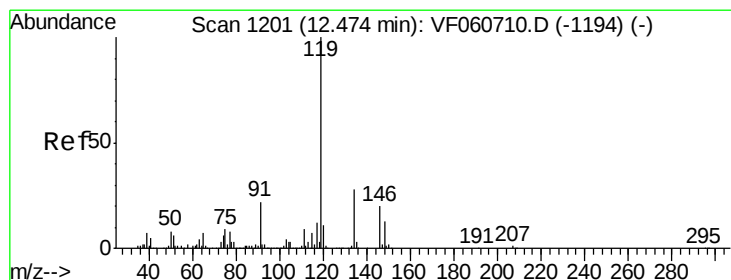
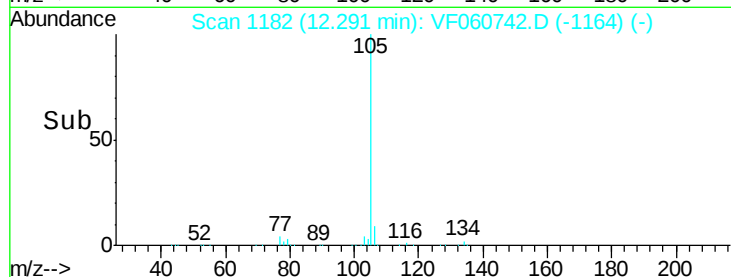
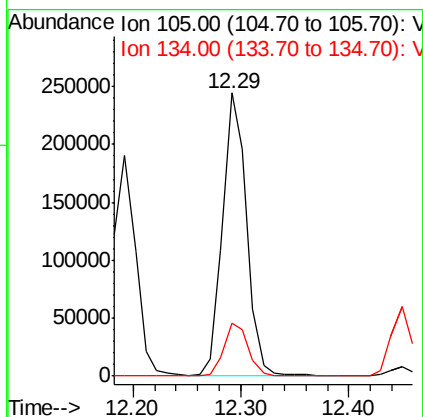
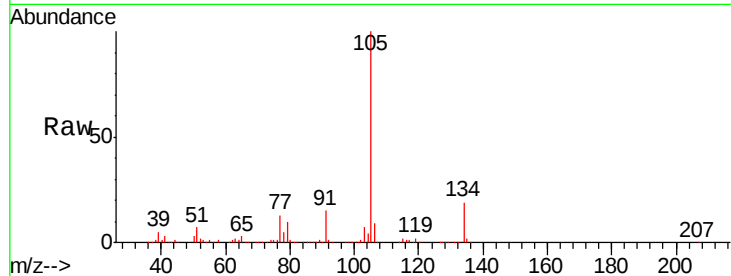




#85  
 sec-Butylbenzene  
 Concen: 20.86 ug/l  
 RT: 12.29 min Scan# 1182  
 Delta R.T. -0.03 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

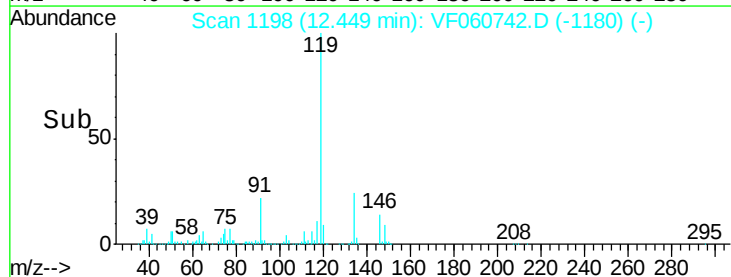
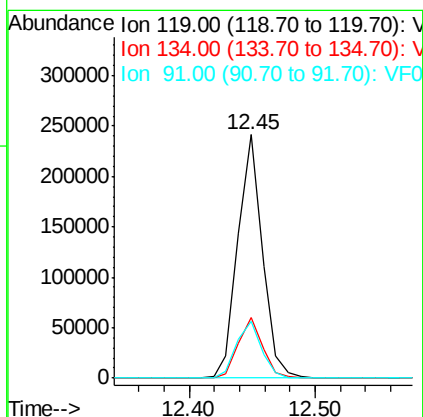
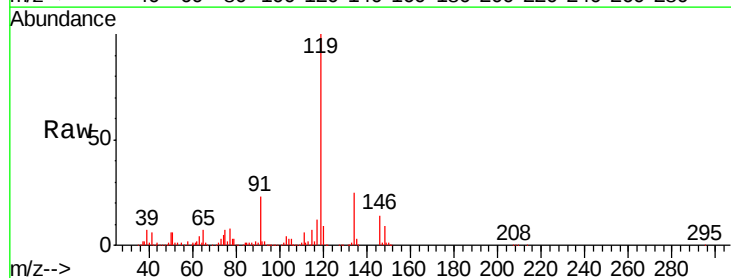
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBS01

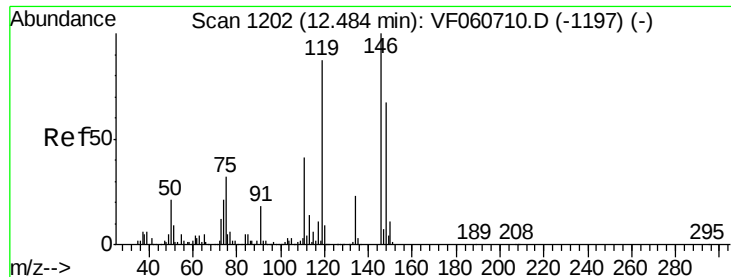
Tgt Ion:105 Resp: 378193  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 10.1 30.3



#86  
 p-Isopropyltoluene  
 Concen: 21.54 ug/l  
 RT: 12.45 min Scan# 1198  
 Delta R.T. -0.03 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

Tgt Ion:119 Resp: 326136  
 Ion Ratio Lower Upper  
 119 100  
 134 25.1 13.9 41.7  
 91 23.3 11.3 33.9

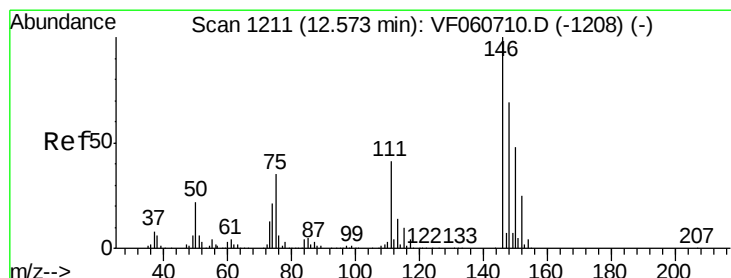
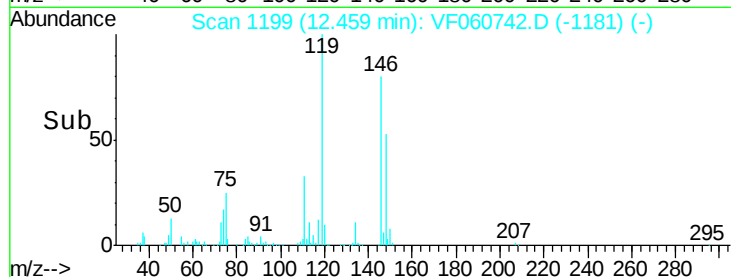
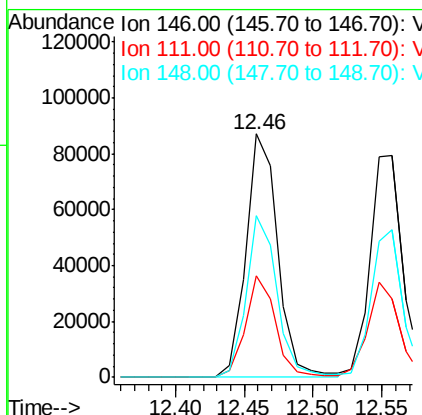
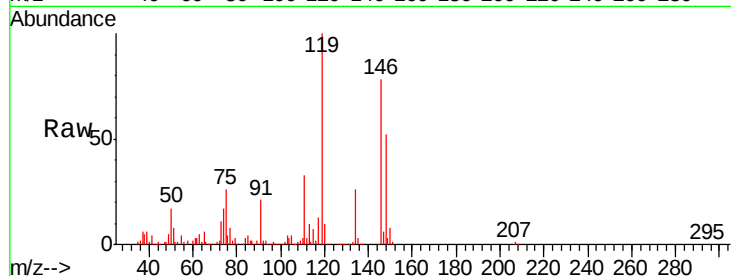




#87  
 1,3-Dichlorobenzene  
 Concen: 21.37 ug/l  
 RT: 12.46 min Scan# 1199  
 Delta R.T. -0.03 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

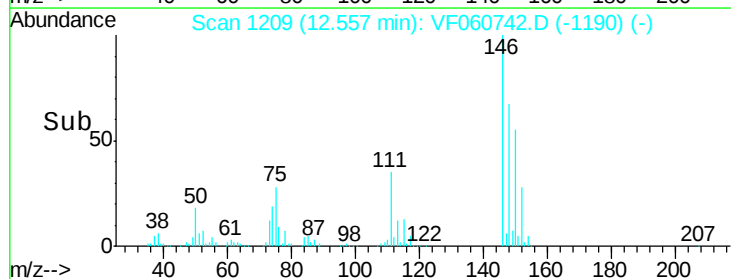
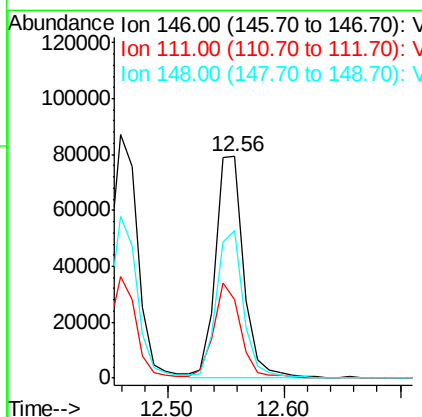
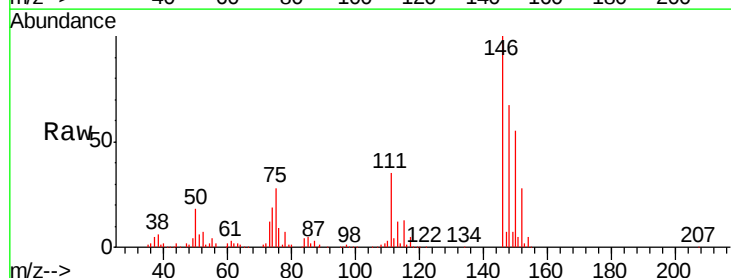
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBS01

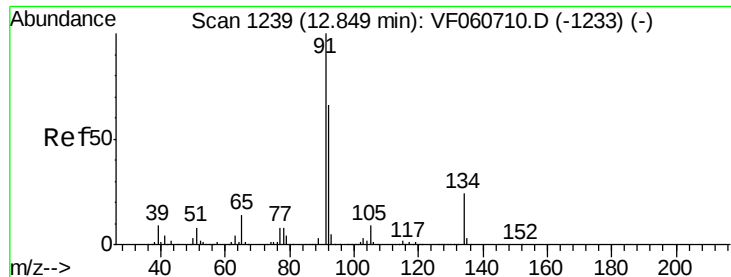
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.8  | 20.3  | 60.8  |
| 148     | 66.3  | 33.3  | 99.9  |



#88  
 1,4-Dichlorobenzene  
 Concen: 20.92 ug/l  
 RT: 12.56 min Scan# 1209  
 Delta R.T. -0.02 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 35.4  | 20.6  | 61.9  |
| 148     | 66.9  | 34.7  | 104.1 |





#89

n-Butylbenzene

Concen: 21.36 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.02 min

Lab File: VF060742.D

Acq: 15 Nov 2018 12:32

Instrument :

MSVOA\_F

ClientSampleId :

VF1115SBSD01

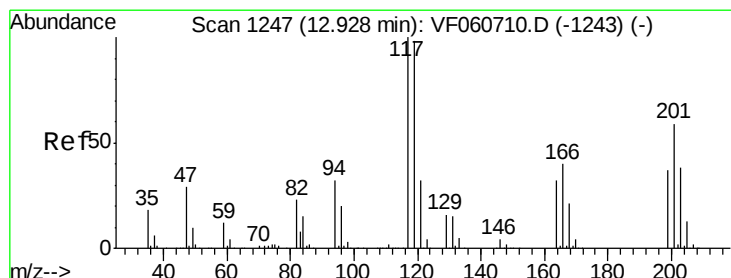
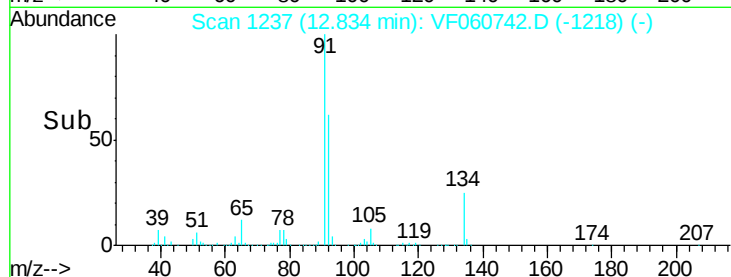
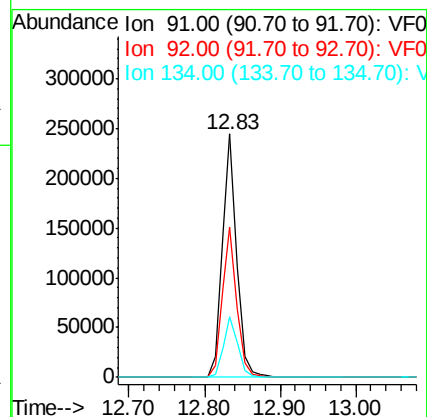
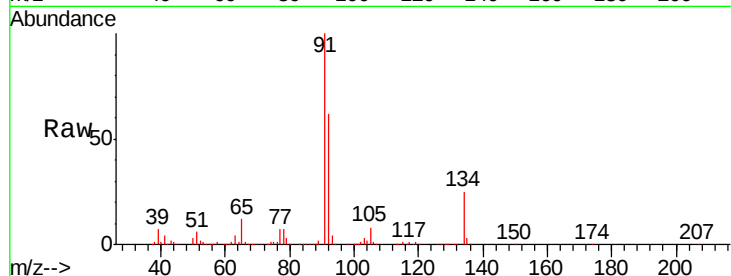
Tgt Ion: 91 Resp: 330068

Ion Ratio Lower Upper

91 100

92 61.6 33.1 99.2

134 24.8 11.9 35.9



#90

Hexachloroethane

Concen: 20.51 ug/l

RT: 12.90 min Scan# 1244

Delta R.T. -0.03 min

Lab File: VF060742.D

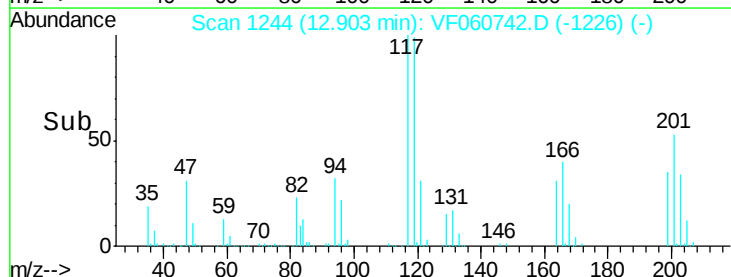
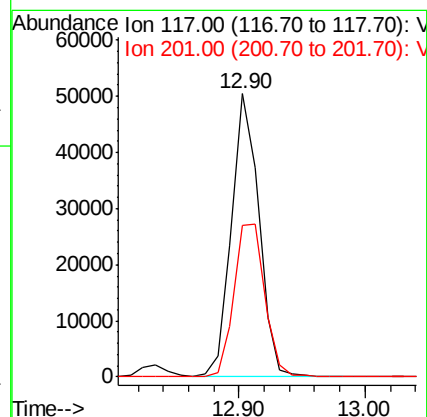
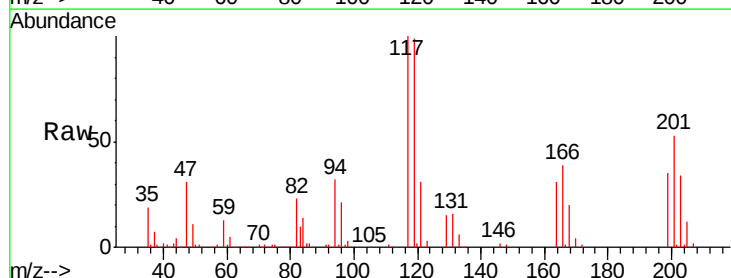
Acq: 15 Nov 2018 12:32

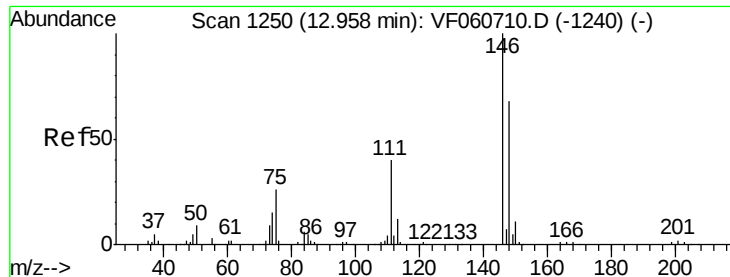
Tgt Ion: 117 Resp: 75954

Ion Ratio Lower Upper

117 100

201 53.3 29.4 88.3

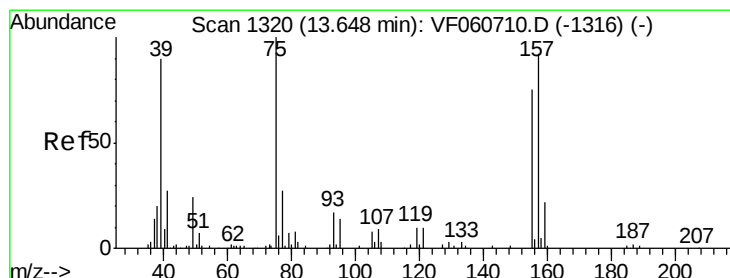
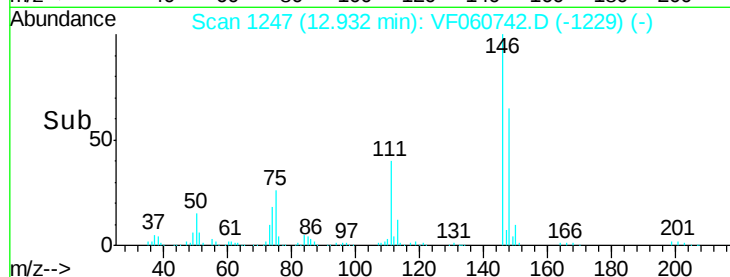
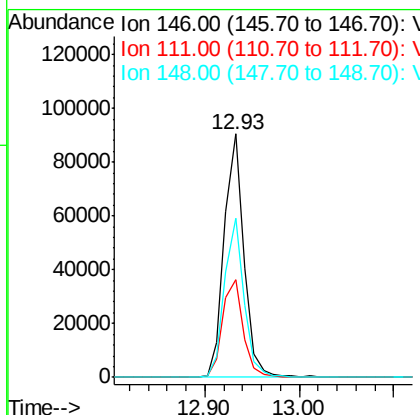
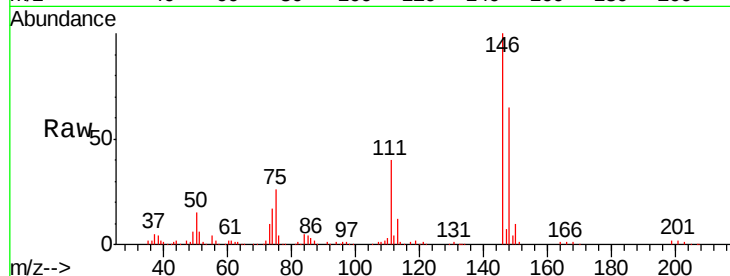




#91  
 1,2-Dichlorobenzene  
 Concen: 21.12 ug/l  
 RT: 12.93 min Scan# 1247  
 Delta R.T. -0.03 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

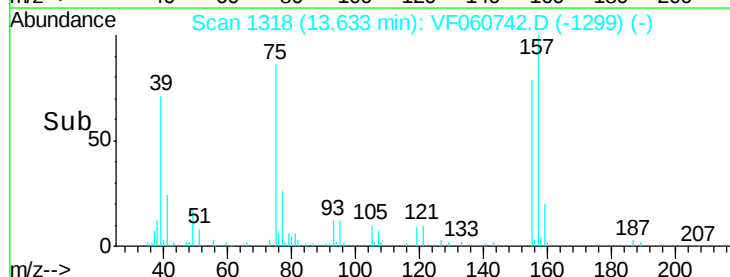
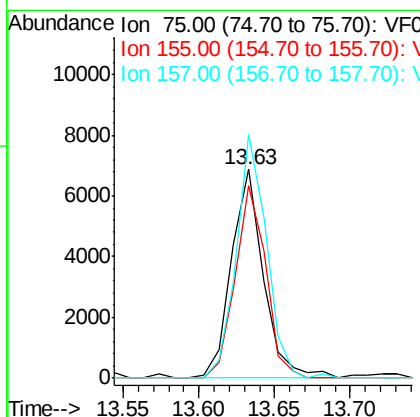
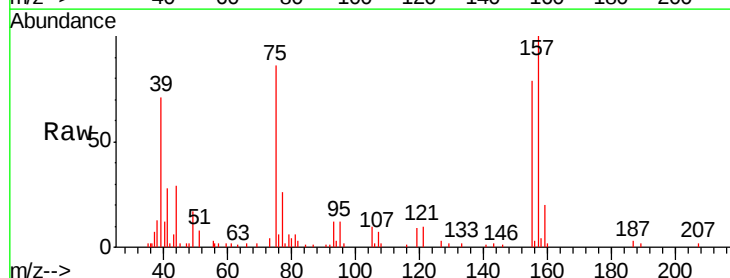
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBSD01

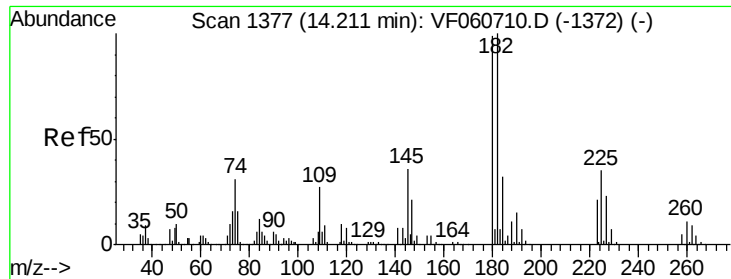
Tgt Ion: 146 Resp: 130624  
 Ion Ratio Lower Upper  
 146 100  
 111 40.0 20.3 60.8  
 148 65.3 34.1 102.3



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 20.59 ug/l  
 RT: 13.63 min Scan# 1318  
 Delta R.T. -0.02 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

Tgt Ion: 75 Resp: 10143  
 Ion Ratio Lower Upper  
 75 100  
 155 92.5 37.4 112.2  
 157 116.8 46.0 138.0

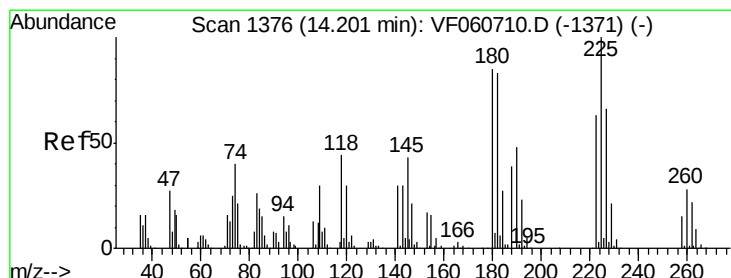
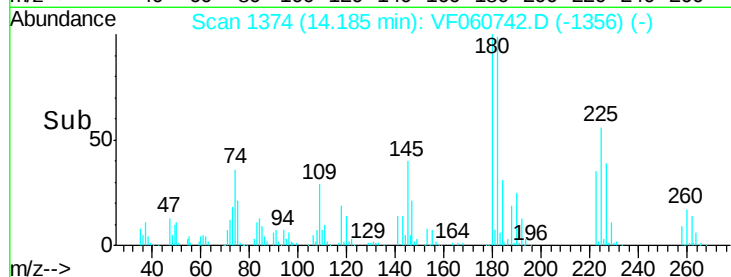
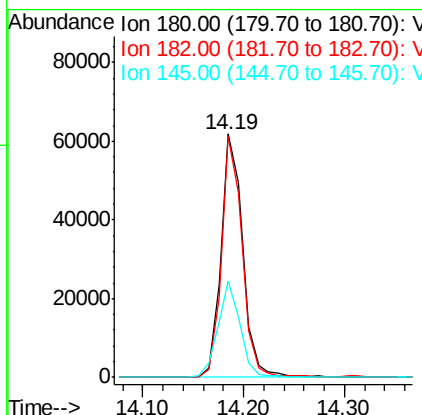
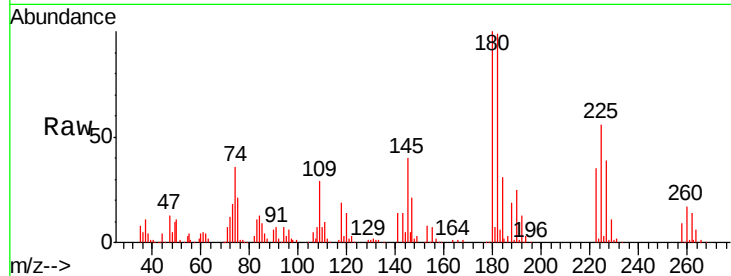




#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.94 ug/l  
 RT: 14.19 min Scan# 1374  
 Delta R.T. -0.03 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

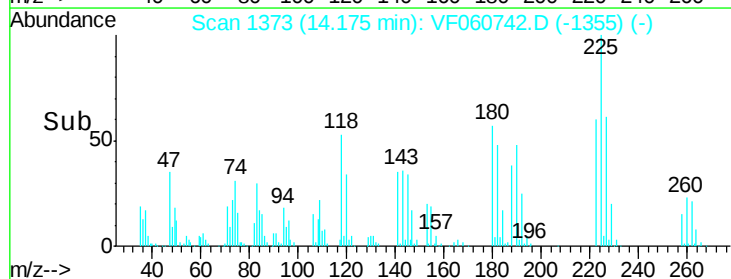
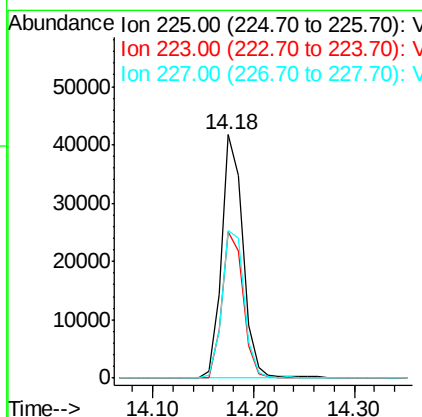
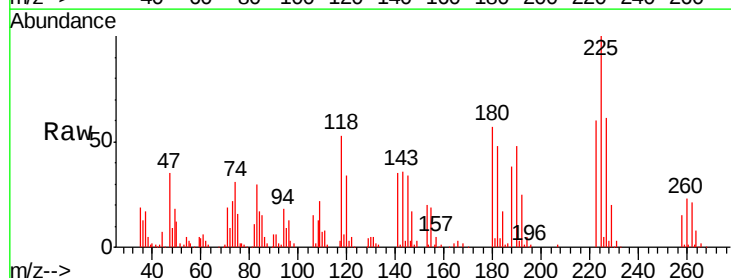
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF1115SBS01

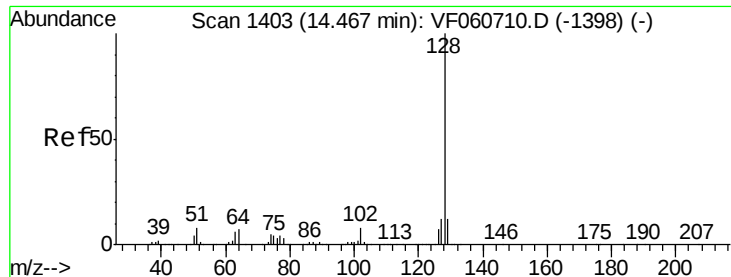
Tgt Ion:180 Resp: 93089  
 Ion Ratio Lower Upper  
 180 100  
 182 99.0 50.3 151.0  
 145 39.8 18.3 54.9



#94  
 Hexachlorobutadiene  
 Concen: 21.31 ug/l  
 RT: 14.18 min Scan# 1373  
 Delta R.T. -0.03 min  
 Lab File: VF060742.D  
 Acq: 15 Nov 2018 12:32

Tgt Ion:225 Resp: 61880  
 Ion Ratio Lower Upper  
 225 100  
 223 59.9 31.5 94.5  
 227 60.8 33.0 99.0

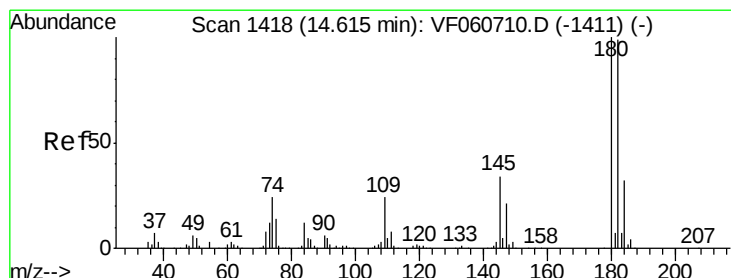
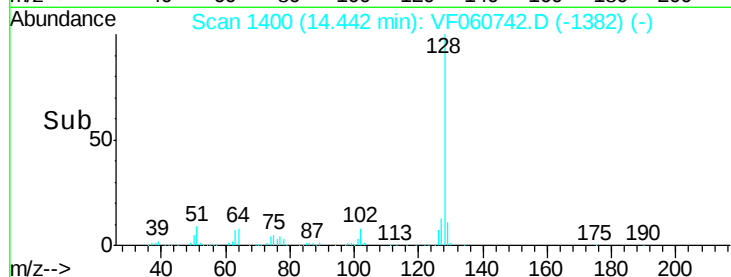
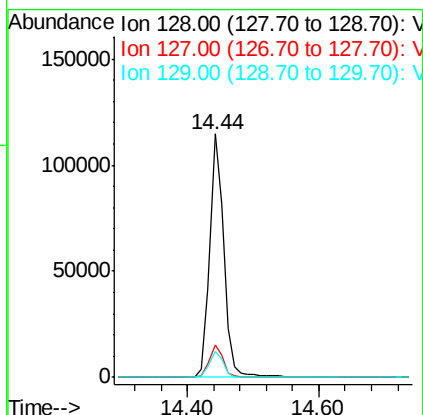
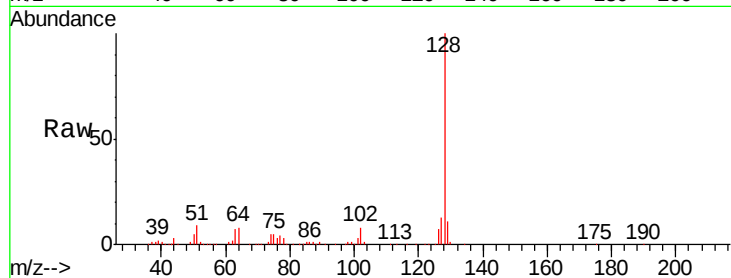




#95  
Naphthalene  
Concen: 20.41 ug/l  
RT: 14.44 min Scan# 1400  
Delta R.T. -0.03 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF1115SBS01

Tgt Ion:128 Resp: 165497  
Ion Ratio Lower Upper  
128 100  
127 13.1 9.8 14.6  
129 10.9 9.3 13.9



#96  
1,2,3-Trichlorobenzene  
Concen: 20.43 ug/l  
RT: 14.59 min Scan# 1415  
Delta R.T. -0.03 min  
Lab File: VF060742.D  
Acq: 15 Nov 2018 12:32

Tgt Ion:180 Resp: 83904  
Ion Ratio Lower Upper  
180 100  
182 94.0 49.6 149.0  
145 37.2 16.9 50.7

