

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF100118\  
 Data File : VF060388.D  
 Acq On : 1 Oct 2018 17:46  
 Operator : VA/AP  
 Sample : VSTDIC010  
 Misc : 5.00/5mL/MSVOA\_F/SOIL  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

Quant Time: Oct 02 00:02:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 00:00:09 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.02  | 168  | 263470   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.74  | 114  | 417409   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.90  | 117  | 388658   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 211737   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 5.00   | 65  | 43033    | 11.64 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 23.28% |      |
| 35) Dibromofluoromethane    | 4.27   | 113 | 41129    | 10.84 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 21.68% |      |
| 50) Toluene-d8              | 7.69   | 98  | 104549   | 10.73 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 21.46% |      |
| 62) 4-Bromofluorobenzene    | 11.49  | 95  | 49087    | 11.56 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 23.12% |      |

| Target Compounds              |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 0.99 | 85  | 74455  | 14.754 | ug/l   | 92     |
| 3) Chloromethane              | 1.12 | 50  | 40576  | 11.069 | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.18 | 62  | 39153  | 10.430 | ug/l   | 92     |
| 5) Bromomethane               | 1.37 | 94  | 32432  | 12.457 | ug/l   | 92     |
| 6) Chloroethane               | 1.43 | 64  | 19305  | 10.733 | ug/l   | 88     |
| 7) Trichlorofluoromethane     | 1.53 | 101 | 96192  | 13.197 | ug/l   | 96     |
| 8) Diethyl Ether              | 1.69 | 74  | 12823  | 11.120 | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.88 | 101 | 46051  | 12.217 | ug/l   | 91     |
| 10) Methyl Iodide             | 1.95 | 142 | 66466  | 11.043 | ug/l   | 93     |
| 11) Tert butyl alcohol        | 2.67 | 59  | 11817  | 49.966 | ug/l # | 62     |
| 12) 1,1-Dichloroethene        | 1.85 | 96  | 32877  | 10.761 | ug/l # | 83     |
| 13) Acrolein                  | 2.02 | 56  | 846    | 6.250  | ug/l   | 96     |
| 14) Allyl chloride            | 2.18 | 41  | 55415  | 10.494 | ug/l   | 98     |
| 15) Acrylonitrile             | 3.06 | 53  | 19954  | 40.265 | ug/l   | 96     |
| 16) Acetone                   | 2.33 | 43  | 55865  | 56.328 | ug/l   | 100    |
| 17) Carbon Disulfide          | 1.89 | 76  | 100279 | 10.673 | ug/l   | 99     |
| 18) Methyl Acetate            | 2.43 | 43  | 19245  | 11.321 | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 2.52 | 73  | 81199  | 10.587 | ug/l   | 99     |
| 20) Methylene Chloride        | 2.26 | 84  | 18208  | 5.091  | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene  | 2.39 | 96  | 33914  | 10.692 | ug/l # | 88     |
| 22) Diisopropyl ether         | 2.91 | 45  | 94799  | 9.596  | ug/l # | 97     |
| 23) Vinyl Acetate             | 3.31 | 43  | 189008 | 48.472 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 2.98 | 63  | 66344  | 10.181 | ug/l   | 98     |
| 25) 2-Butanone                | 4.48 | 43  | 58751  | 45.531 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 3.74 | 77  | 38663  | 10.519 | ug/l   | 92     |
| 27) cis-1,2-Dichloroethene    | 3.62 | 96  | 38513  | 9.538  | ug/l   | 89     |
| 28) Bromochloromethane        | 3.86 | 49  | 23078  | 9.099  | ug/l   | 96     |
| 29) Tetrahydrofuran           | 4.24 | 42  | 19874  | 40.977 | ug/l   | 96     |
| 30) Chloroform                | 4.01 | 83  | 79553  | 10.177 | ug/l   | 96     |
| 31) Cyclohexane               | 3.83 | 56  | 46291  | 8.607  | ug/l   | 92     |
| 32) 1,1,1-Trichloroethane     | 4.25 | 97  | 69814  | 11.146 | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 4.43 | 75  | 53590  | 10.209 | ug/l   | 94     |
| 37) Ethyl Acetate             | 4.26 | 43  | 22399  | 10.327 | ug/l # | 90     |
| 38) Carbon Tetrachloride      | 4.14 | 117 | 66333  | 11.225 | ug/l   | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 00:00:09 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.60  | 83   | 53719    | 9.739   | ug/l   | 84       |
| 40) Benzene                    | 4.78  | 78   | 111329   | 9.643   | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.89  | 41   | 10699    | 9.195   | ug/l # | 87       |
| 42) 1,2-Dichloroethane         | 5.09  | 62   | 49969    | 11.179  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 7.09  | 43   | 24216    | 9.264   | ug/l # | 98       |
| 44) Trichloroethene            | 5.65  | 130  | 35296    | 10.205  | ug/l   | 95       |
| 45) 1,2-Dichloropropane        | 6.38  | 63   | 28829    | 9.584   | ug/l # | 89       |
| 46) Dibromomethane             | 6.23  | 93   | 22899    | 10.422  | ug/l   | 93       |
| 47) Bromodichloromethane       | 6.52  | 83   | 53820    | 10.143  | ug/l # | 85       |
| 48) Methyl methacrylate        | 6.85  | 41   | 18234    | 9.808   | ug/l   | 93       |
| 49) 1,4-Dioxane                | 6.84  | 88   | 3351     | 203.668 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone       | 8.38  | 43   | 90051    | 45.892  | ug/l   | 98       |
| 52) Toluene                    | 7.76  | 92   | 77645    | 10.539  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.40  | 75   | 46614    | 11.020  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 7.43  | 75   | 52213    | 9.838   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 8.61  | 97   | 23919    | 10.700  | ug/l # | 89       |
| 56) Ethyl methacrylate         | 8.73  | 69   | 27926    | 10.332  | ug/l   | 92       |
| 57) 1,3-Dichloropropane        | 8.97  | 76   | 41216    | 11.087  | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether  | 7.76  | 63   | 14256    | 58.193  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.61  | 43   | 72511    | 52.261  | ug/l   | 98       |
| 60) Dibromochloromethane       | 8.84  | 129  | 33752    | 10.018  | ug/l   | 89       |
| 61) 1,2-Dibromoethane          | 9.12  | 107  | 24614    | 9.778   | ug/l   | 93       |
| 64) Tetrachloroethene          | 8.28  | 164  | 32184    | 9.276   | ug/l   | 95       |
| 65) Chlorobenzene              | 9.92  | 112  | 85239    | 9.786   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.05 | 131  | 36412    | 9.927   | ug/l   | 94       |
| 67) Ethyl Benzene              | 10.01 | 91   | 164957   | 10.197  | ug/l   | 96       |
| 68) m/p-Xylenes                | 10.24 | 106  | 118355   | 21.195  | ug/l   | 99       |
| 69) o-Xylene                   | 10.81 | 106  | 59510    | 9.522   | ug/l   | 92       |
| 70) Styrene                    | 10.88 | 104  | 88476    | 10.066  | ug/l   | 98       |
| 71) Bromoform                  | 10.87 | 173  | 17544    | 8.771   | ug/l # | 96       |
| 73) Isopropylbenzene           | 11.21 | 105  | 185046   | 9.899   | ug/l   | 99       |
| 74) N-amyl acetate             | 11.44 | 43   | 39286    | 9.701   | ug/l # | 94       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.77 | 83   | 31840    | 9.596   | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 11.87 | 75   | 23997    | 9.996   | ug/l   | 98       |
| 77) Bromobenzene               | 11.58 | 156  | 41459    | 10.266  | ug/l   | 83       |
| 78) n-propylbenzene            | 11.67 | 91   | 230085   | 10.365  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.80 | 91   | 135300   | 10.569  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene     | 11.90 | 105  | 159883   | 10.575  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 11.94 | 75   | 15087    | 12.044  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 11.98 | 91   | 135307   | 10.566  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.20 | 119  | 159833   | 10.399  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 12.27 | 105  | 159992   | 10.364  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 12.37 | 105  | 223440   | 10.557  | ug/l   | 93       |
| 86) p-Isopropyltoluene         | 12.53 | 119  | 182215   | 10.817  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.54 | 146  | 80714    | 10.645  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 12.63 | 146  | 76231    | 10.214  | ug/l   | 95       |
| 89) n-Butylbenzene             | 12.90 | 91   | 193634   | 10.793  | ug/l   | 93       |
| 90) Hexachloroethane           | 12.98 | 117  | 43142    | 9.973   | ug/l   | 79       |
| 91) 1,2-Dichlorobenzene        | 13.00 | 146  | 74286    | 10.235  | ug/l   | 93       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 5209     | 8.291   | ug/l   | 96       |

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Misc : 5.00/5mL/MSVOA\_F/SOIL  
ALS Vial : 32 Sample Multiplier: 1

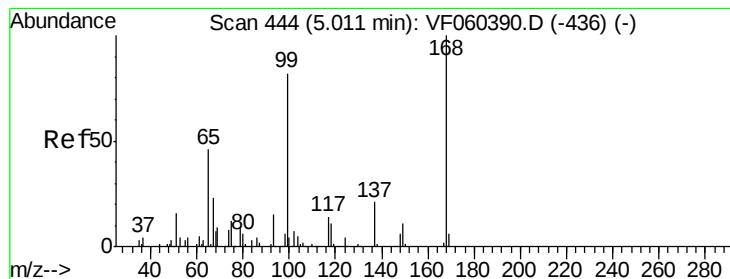
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICC010

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QLast Update : Tue Oct 02 00:00:09 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.25 | 180  | 54410    | 10.268 | ug/l  | 94       |
| 94) Hexachlorobutadiene    | 14.24 | 225  | 38634    | 10.796 | ug/l  | 97       |
| 95) Naphthalene            | 14.51 | 128  | 90967    | 9.721  | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.66 | 180  | 48625    | 9.952  | ug/l  | 95       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

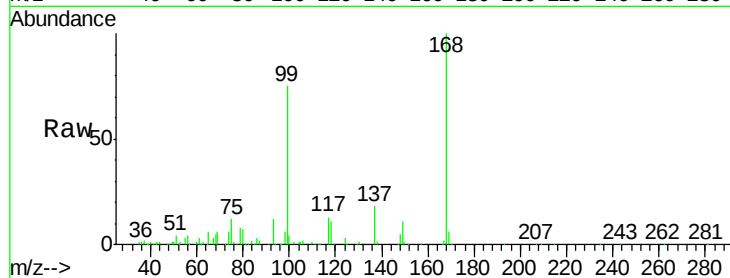
VSTDIC010

Tgt Ion:168 Resp: 263470

Ion Ratio Lower Upper

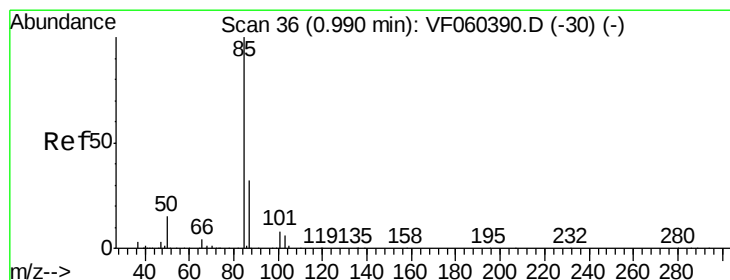
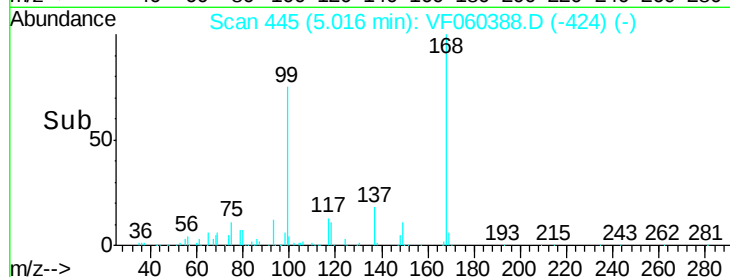
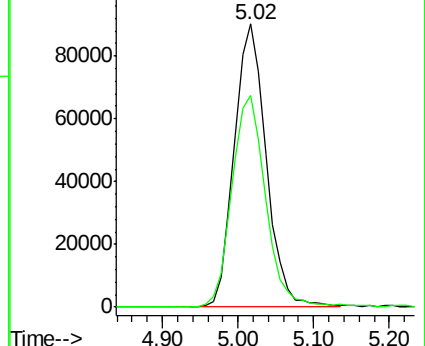
168 100

99 75.0 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 14.754 ug/l

RT: 0.99 min Scan# 37

Delta R.T. 0.01 min

Lab File: VF060388.D

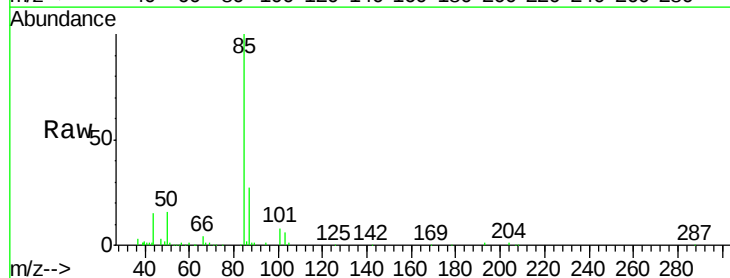
Acq: 1 Oct 2018 17:46

Tgt Ion: 85 Resp: 74455

Ion Ratio Lower Upper

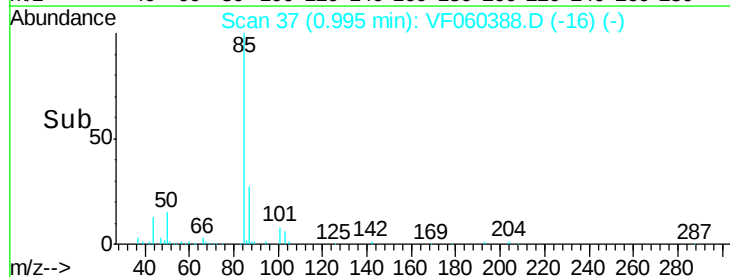
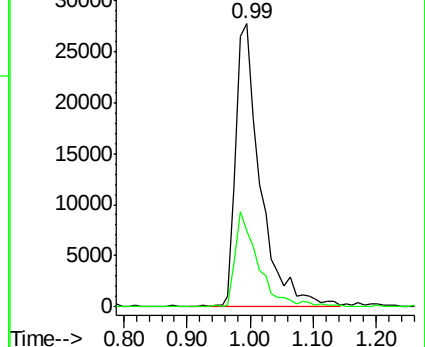
85 100

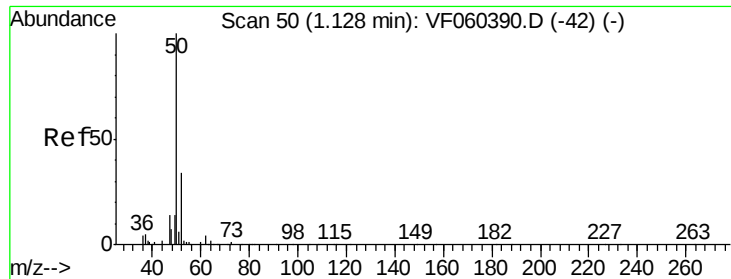
87 27.0 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 11.069 ug/l

RT: 1.12 min Scan# 50

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

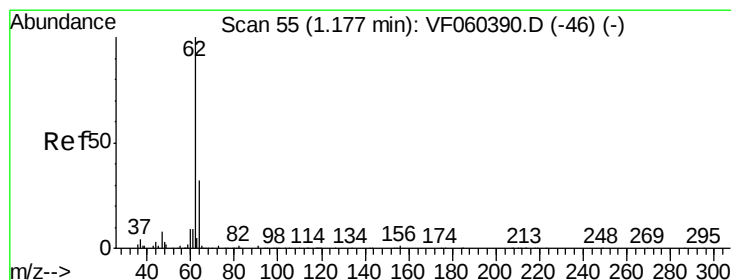
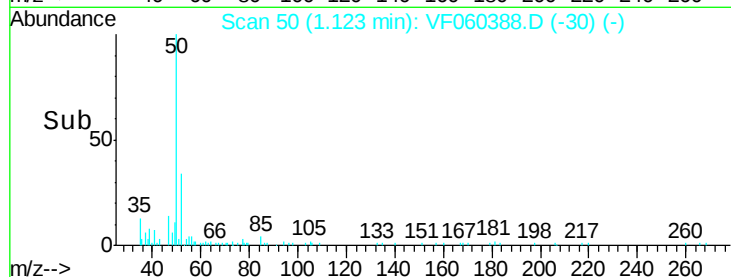
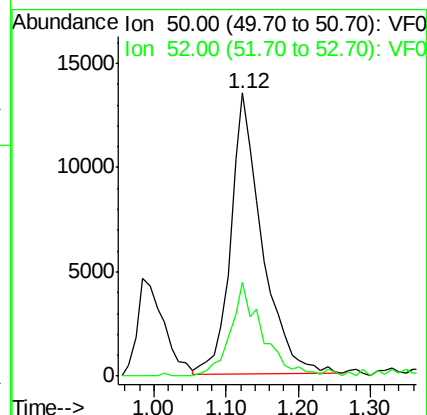
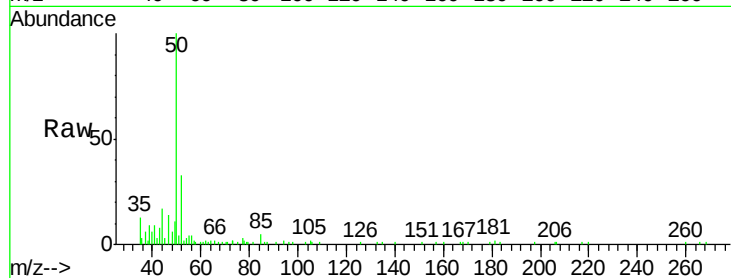
VSTDIC010

Tgt Ion: 50 Resp: 40576

Ion Ratio Lower Upper

50 100

52 33.2 26.9 40.3



#4

Vinyl Chloride

Concen: 10.430 ug/l

RT: 1.18 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF060388.D

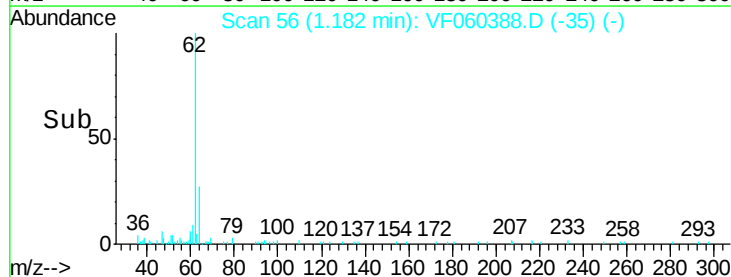
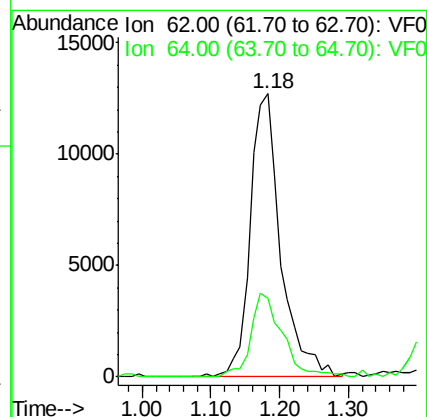
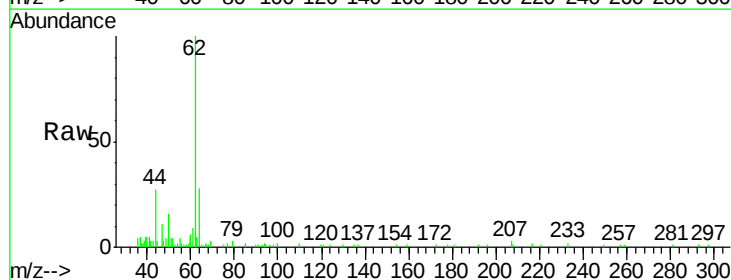
Acq: 1 Oct 2018 17:46

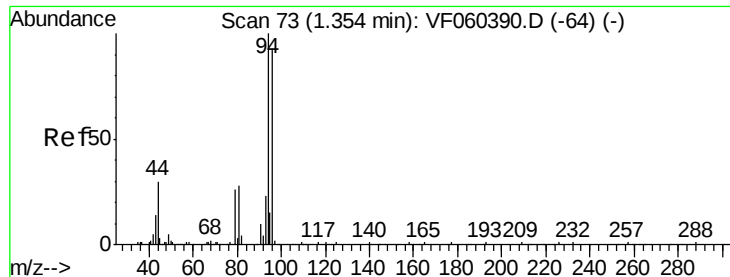
Tgt Ion: 62 Resp: 39153

Ion Ratio Lower Upper

62 100

64 27.8 25.8 38.6





#5

Bromomethane

Concen: 12.457 ug/l

RT: 1.37 min Scan# 75

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

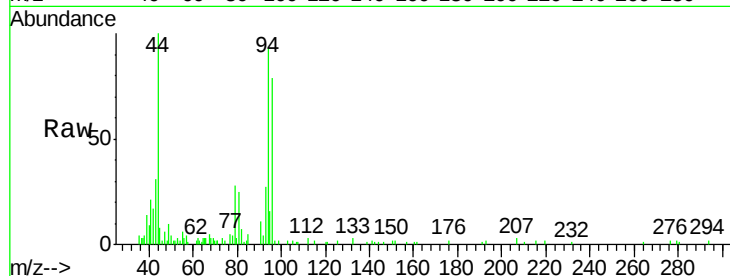
VSTDIC010

Tgt Ion: 94 Resp: 32432

Ion Ratio Lower Upper

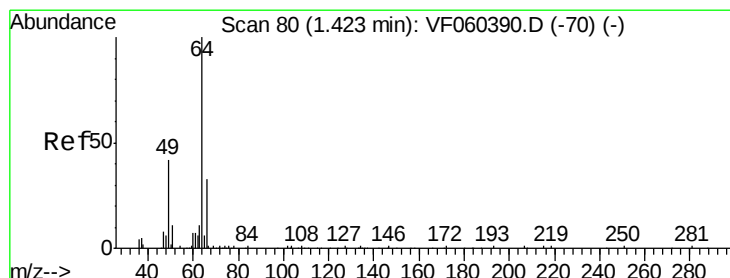
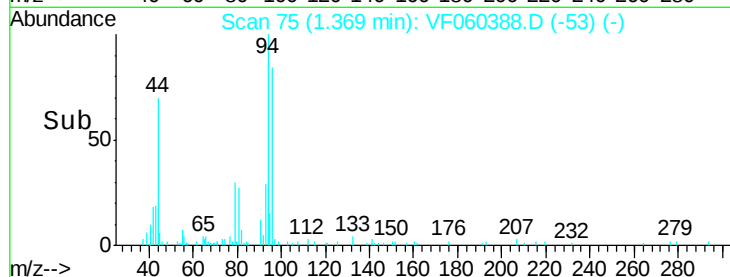
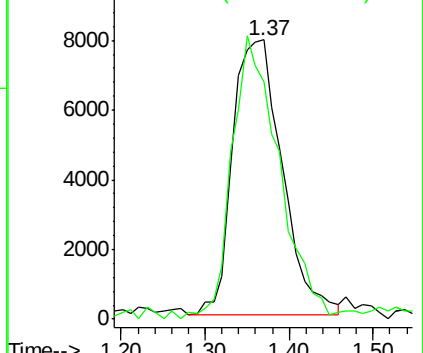
94 100

96 85.1 74.3 111.5



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 10.733 ug/l

RT: 1.43 min Scan# 81

Delta R.T. 0.01 min

Lab File: VF060388.D

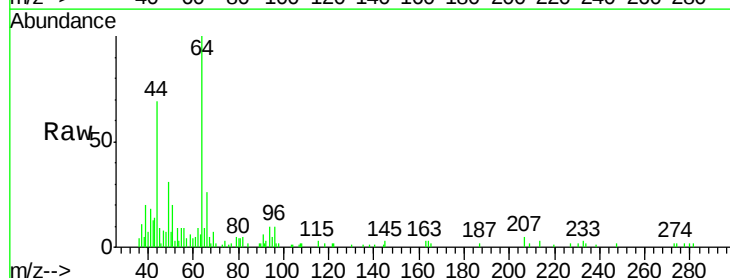
Acq: 1 Oct 2018 17:46

Tgt Ion: 64 Resp: 19305

Ion Ratio Lower Upper

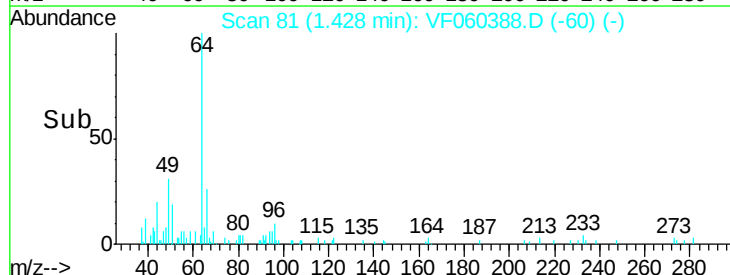
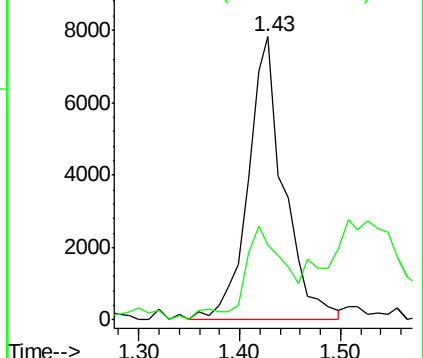
64 100

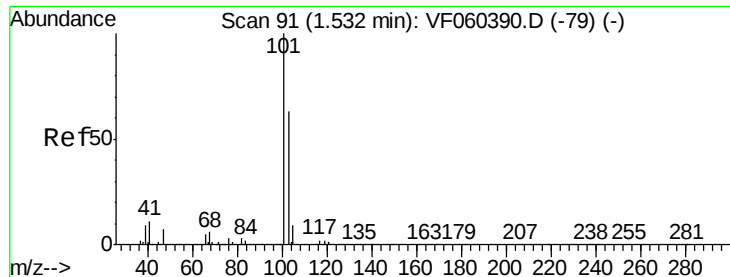
66 26.4 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



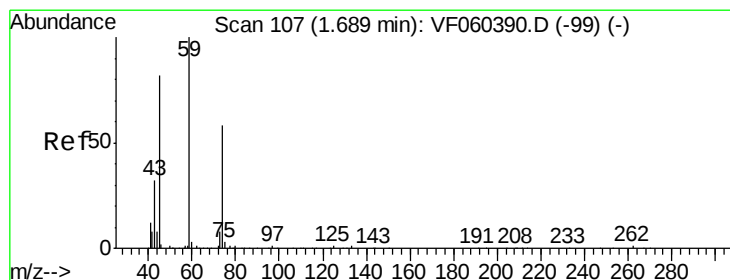
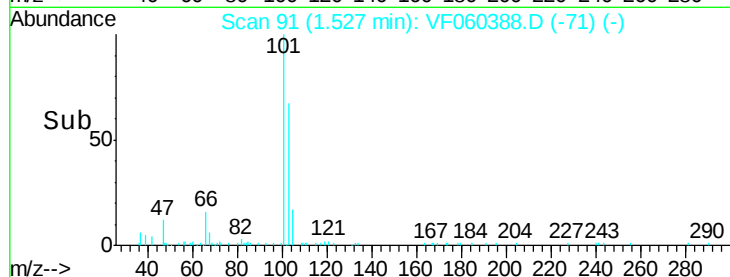
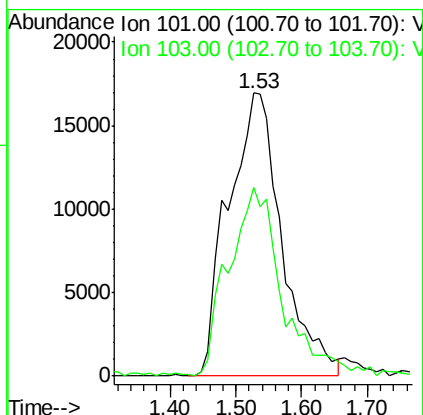
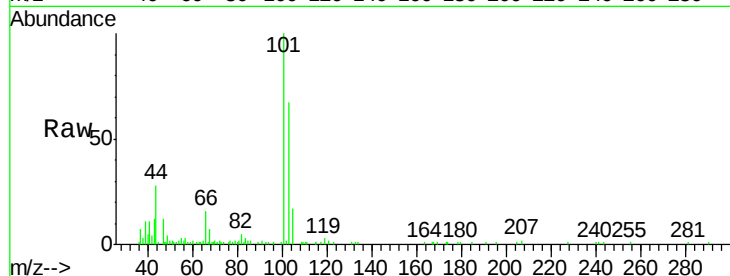


#7

Trichlorofluoromethane  
 Concen: 13.197 ug/l  
 RT: 1.53 min Scan# 91  
 Delta R.T. -0.00 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

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 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

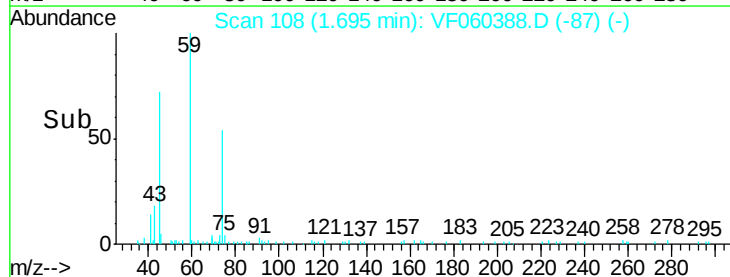
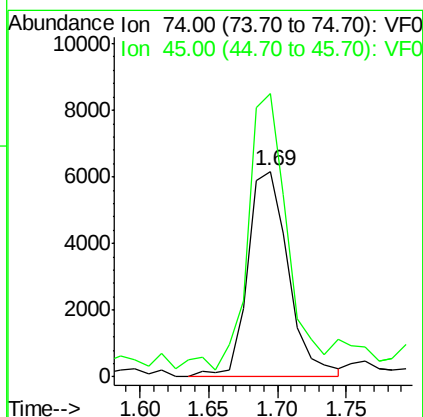
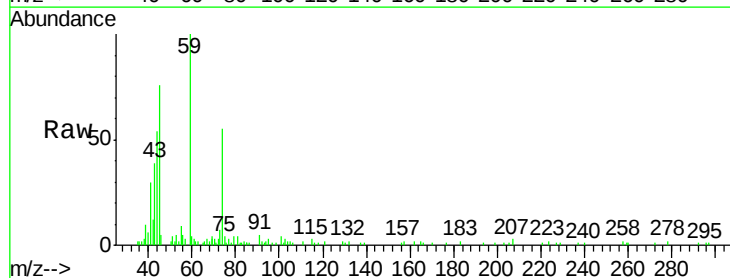
Tgt Ion:101 Resp: 96192  
 Ion Ratio Lower Upper  
 101 100  
 103 66.7 51.0 76.4

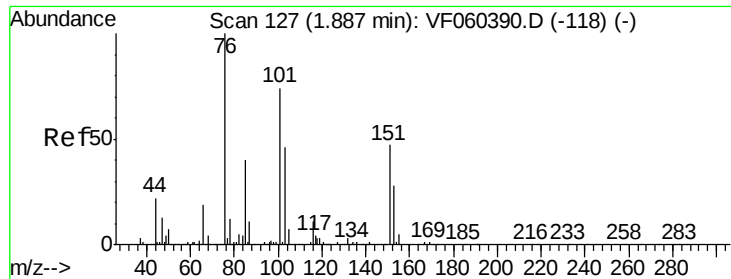


#8

Diethyl Ether  
 Concen: 11.120 ug/l  
 RT: 1.69 min Scan# 108  
 Delta R.T. 0.01 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

Tgt Ion: 74 Resp: 12823  
 Ion Ratio Lower Upper  
 74 100  
 45 137.7 71.3 213.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 12.217 ug/l

RT: 1.88 min Scan# 127

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

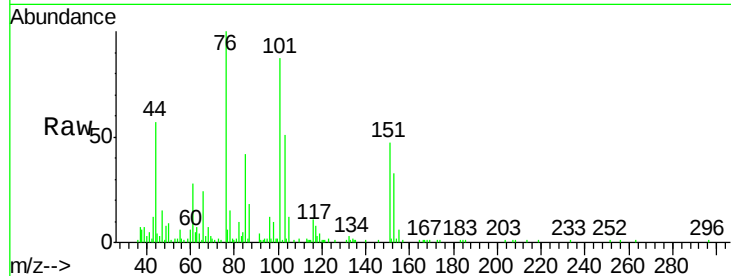
Tgt Ion:101 Resp: 46051

Ion Ratio Lower Upper

101 100

85 48.4 42.5 63.7

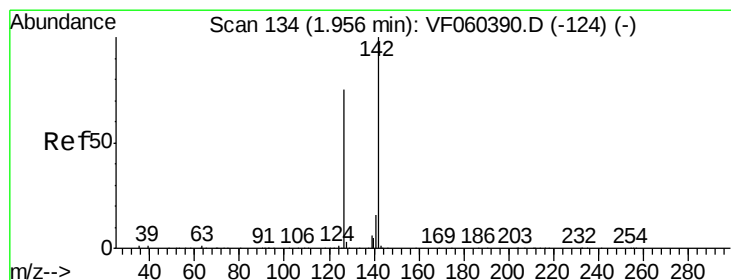
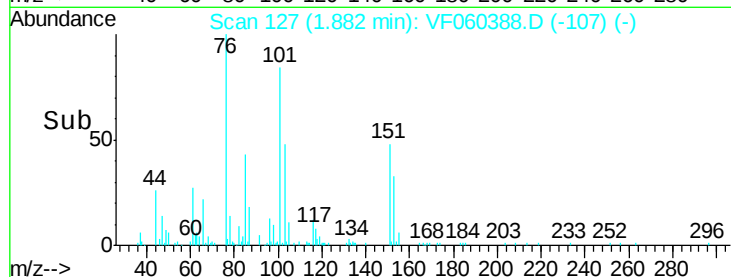
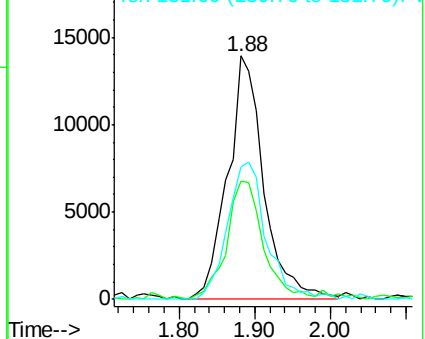
151 54.4 49.8 74.8



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: 11.043 ug/l

RT: 1.95 min Scan# 134

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

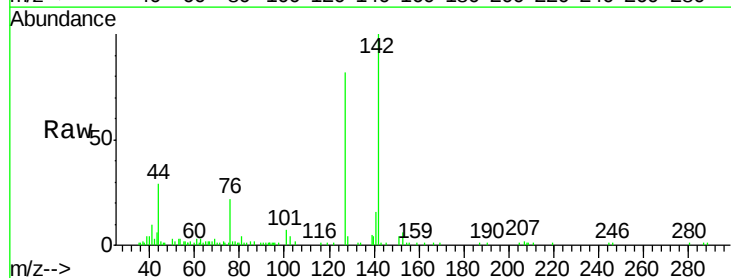
Tgt Ion:142 Resp: 66466

Ion Ratio Lower Upper

142 100

127 82.5 60.2 90.2

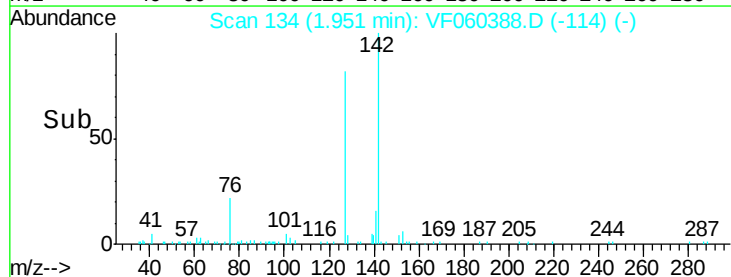
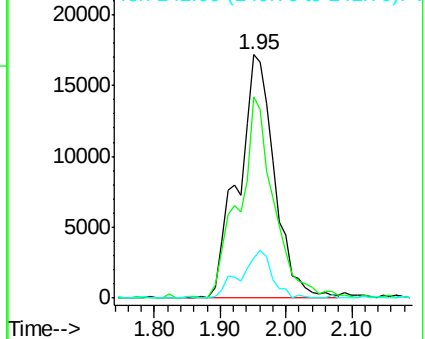
141 16.3 13.1 19.7

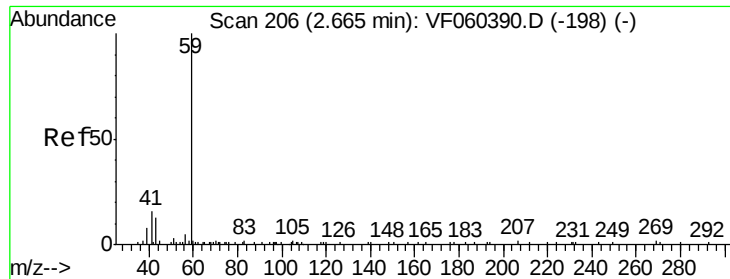


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



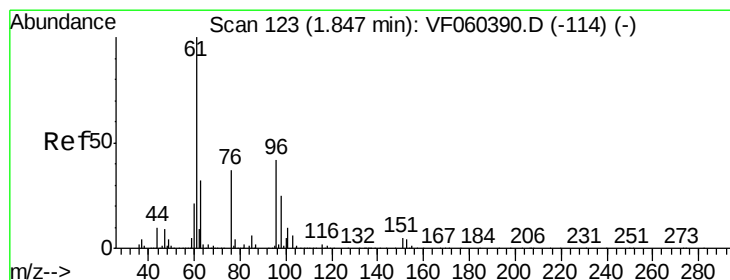
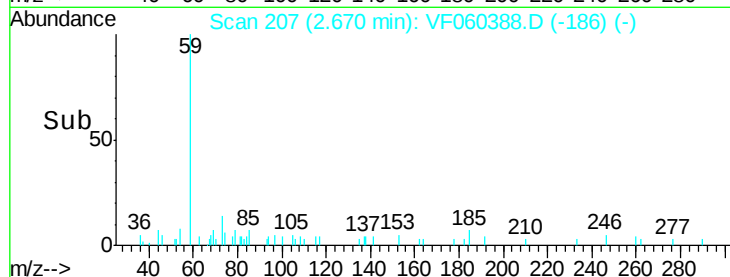
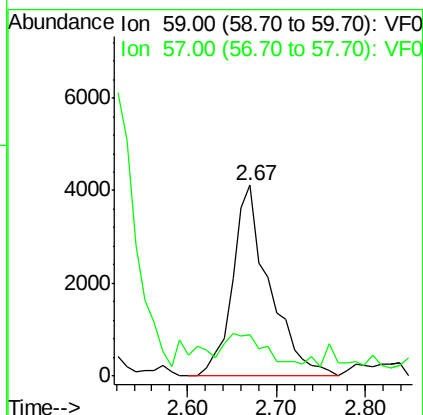
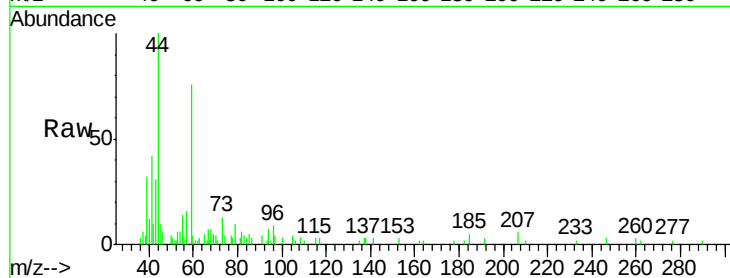


#11

Tert butyl alcohol  
Concen: 49.966 ug/l  
RT: 2.67 min Scan# 207  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

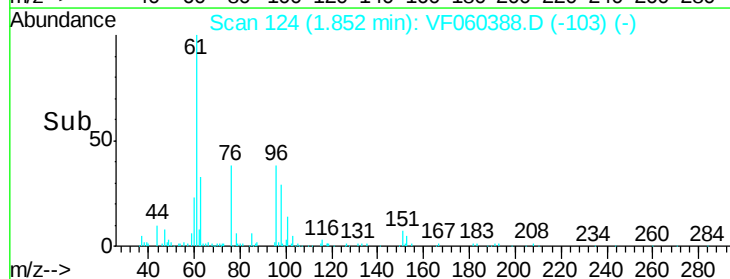
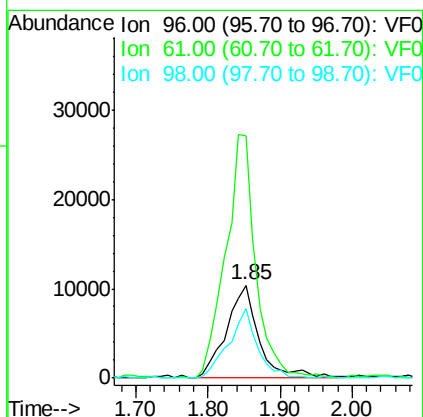
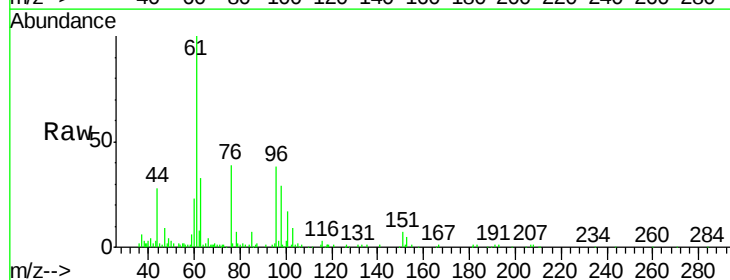
Tgt Ion: 59 Resp: 11817  
Ion Ratio Lower Upper  
59 100  
57 21.7 6.5 9.7#

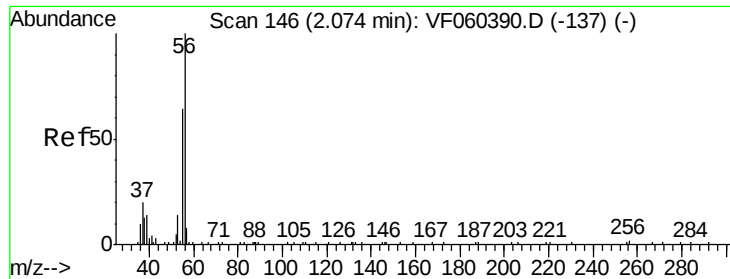


#12

1,1-Dichloroethene  
Concen: 10.761 ug/l  
RT: 1.85 min Scan# 124  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion: 96 Resp: 32877  
Ion Ratio Lower Upper  
96 100  
61 261.9 189.4 284.0  
98 77.3 47.8 71.6#

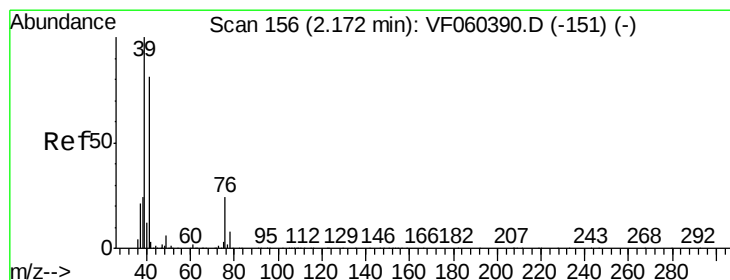
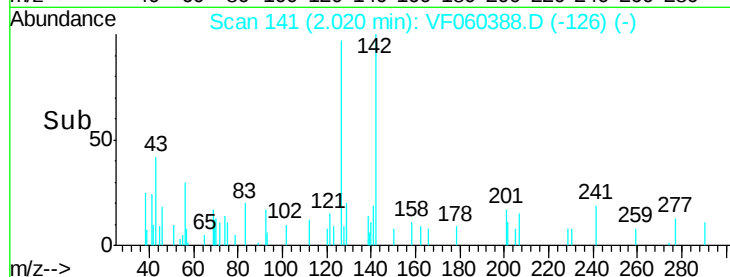
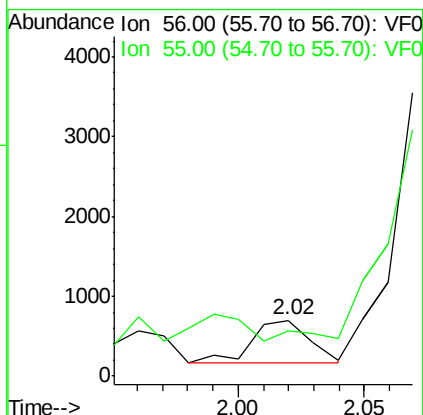
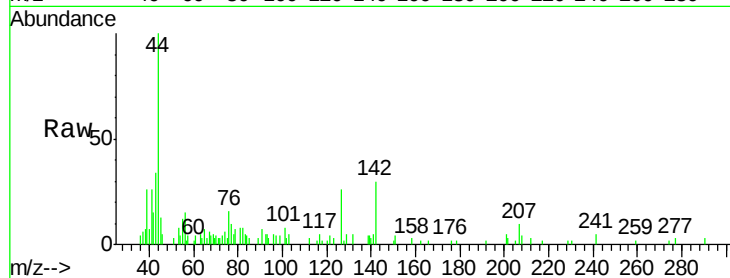




#13  
Acrolein  
Concen: 6.250 ug/l  
RT: 2.02 min Scan# 141  
Delta R.T. -0.05 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

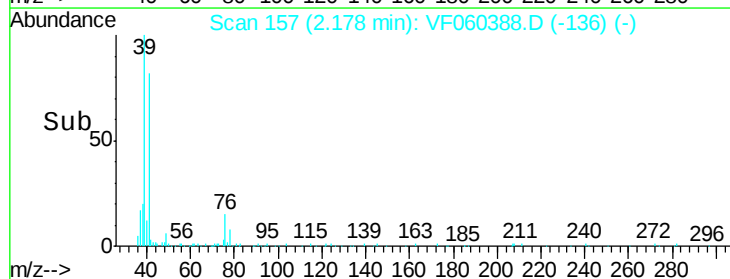
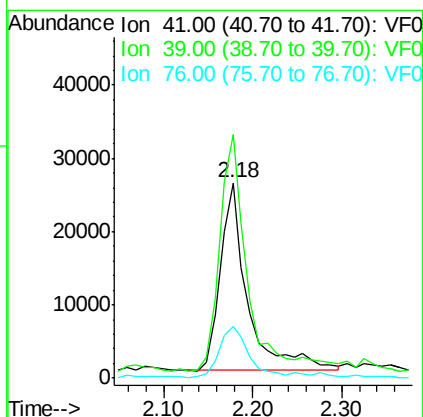
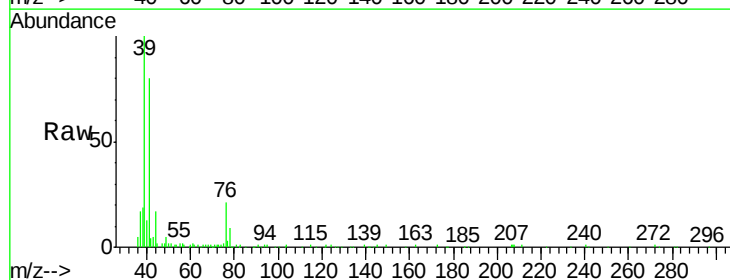
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

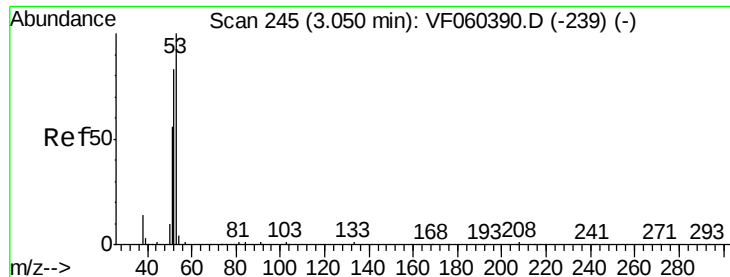
Tgt Ion: 56 Resp: 846  
Ion Ratio Lower Upper  
56 100  
55 70.8 53.9 80.9



#14  
Allyl chloride  
Concen: 10.494 ug/l  
RT: 2.18 min Scan# 157  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion: 41 Resp: 55415  
Ion Ratio Lower Upper  
41 100  
39 124.5 98.3 147.5  
76 26.4 23.9 35.9





#15

Acrylonitrile

Concen: 40.265 ug/l

RT: 3.06 min Scan# 247

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

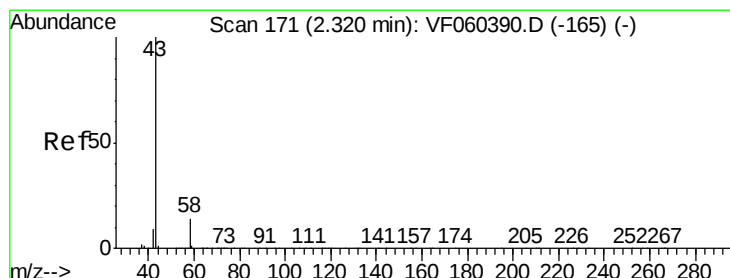
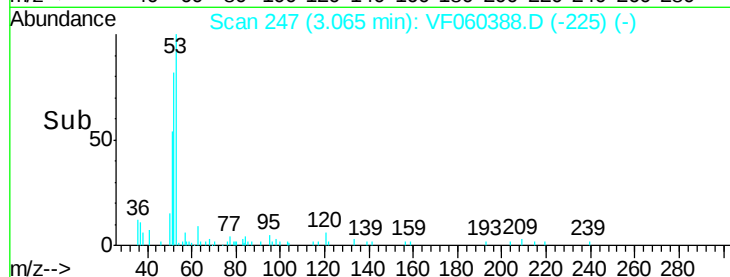
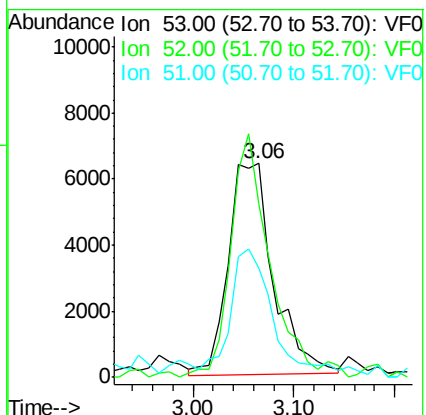
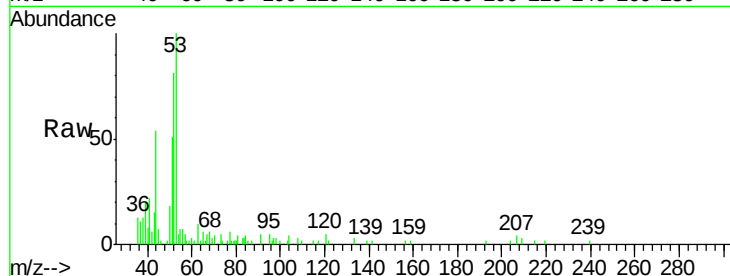
Tgt Ion: 53 Resp: 19954

Ion Ratio Lower Upper

53 100

52 80.9 66.0 99.0

51 51.3 45.6 68.4



#16

Acetone

Concen: 56.328 ug/l

RT: 2.33 min Scan# 172

Delta R.T. 0.01 min

Lab File: VF060388.D

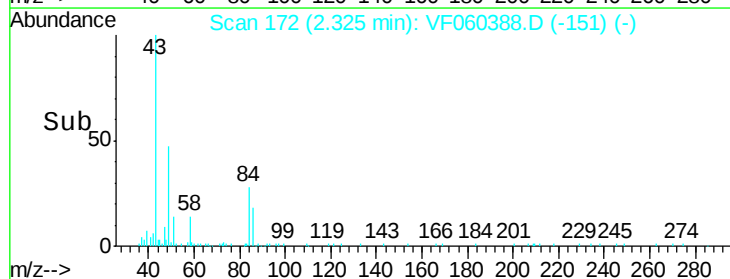
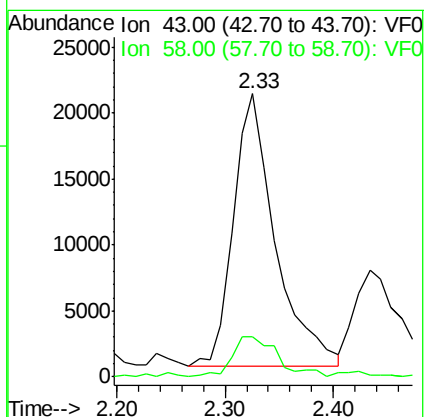
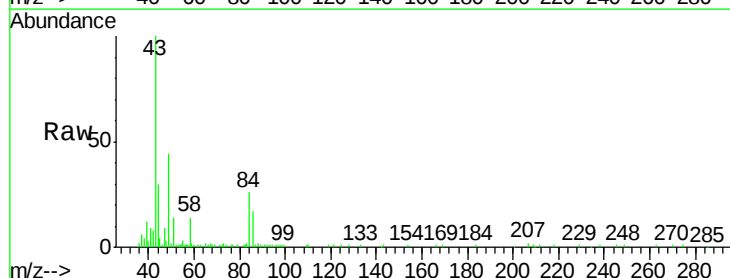
Acq: 1 Oct 2018 17:46

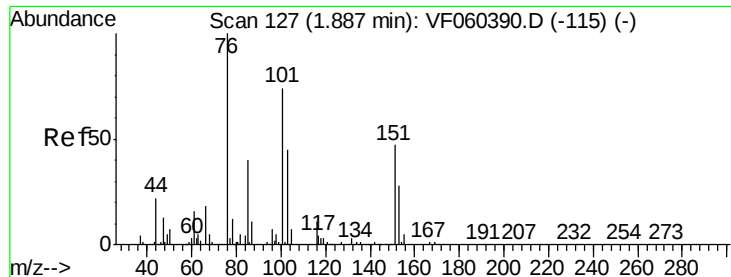
Tgt Ion: 43 Resp: 55865

Ion Ratio Lower Upper

43 100

58 14.0 11.2 16.8





#17

Carbon Disulfide

Concen: 10.673 ug/l

RT: 1.89 min Scan# 128

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

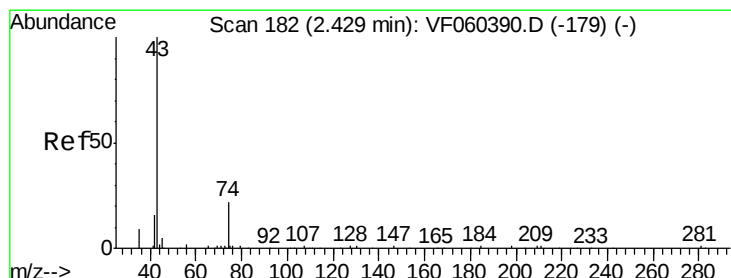
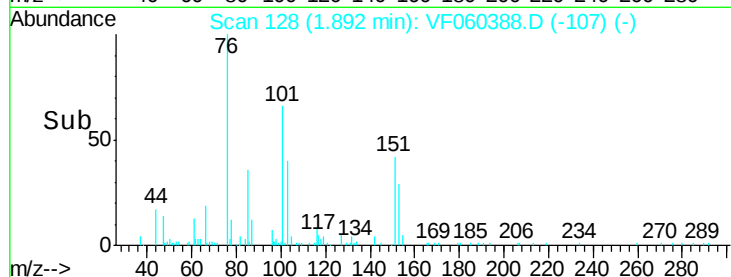
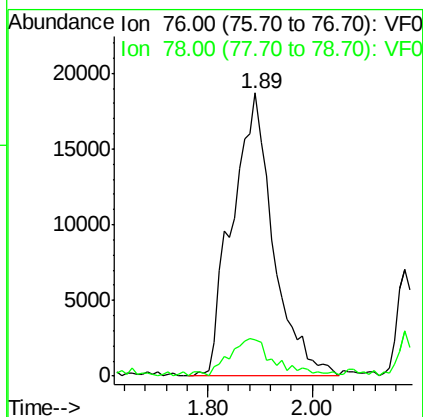
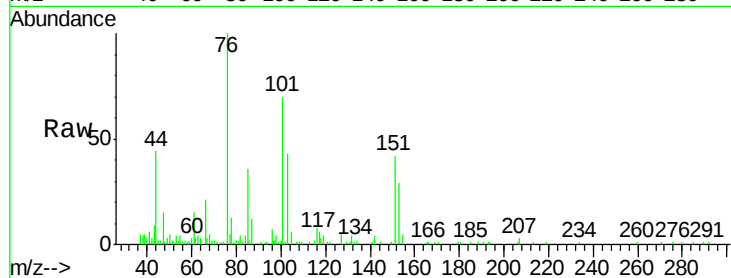
VSTDIC010

Tgt Ion: 76 Resp: 100279

Ion Ratio Lower Upper

76 100

78 12.9 10.1 15.1



#18

Methyl Acetate

Concen: 11.321 ug/l

RT: 2.43 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF060388.D

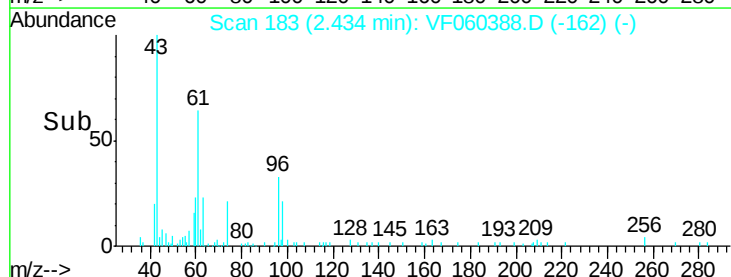
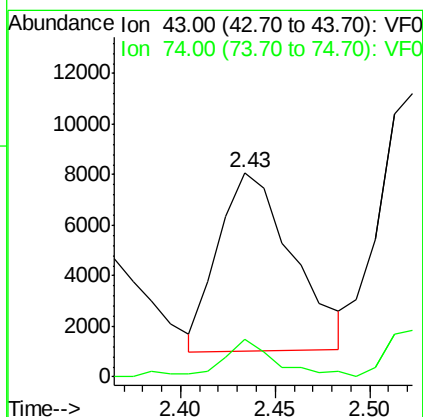
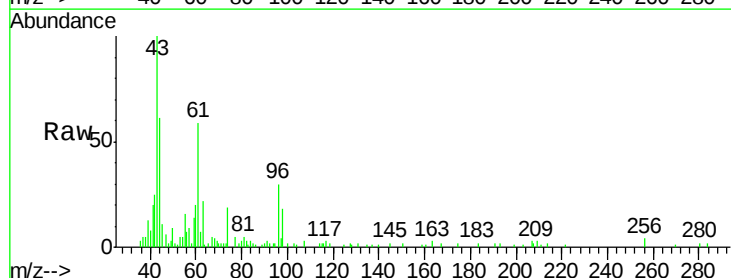
Acq: 1 Oct 2018 17:46

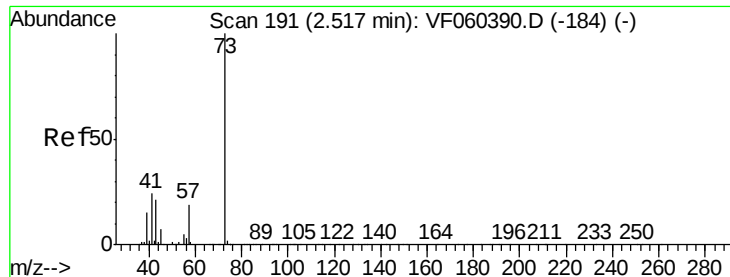
Tgt Ion: 43 Resp: 19245

Ion Ratio Lower Upper

43 100

74 18.6 15.8 23.8



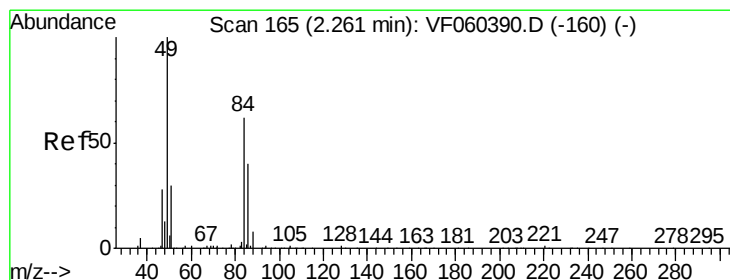
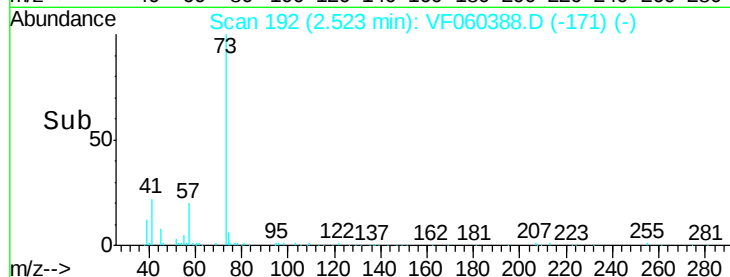
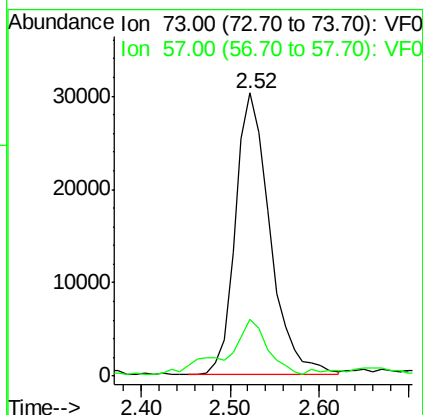
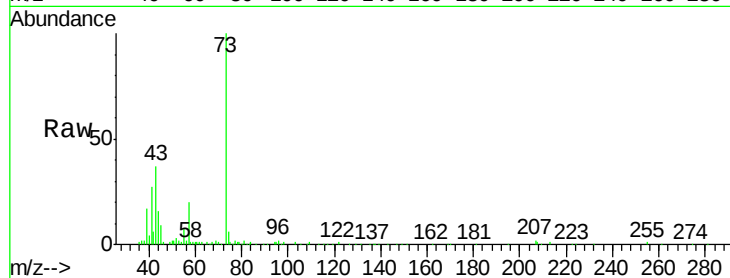


#19

Methyl tert-butyl Ether  
 Concen: 10.587 ug/l  
 RT: 2.52 min Scan# 192  
 Delta R.T. 0.01 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

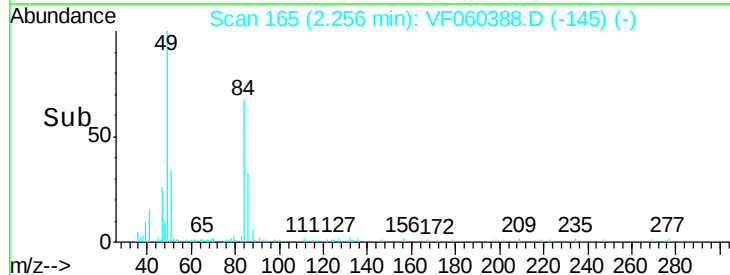
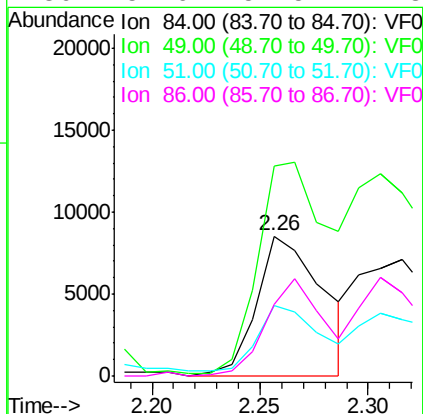
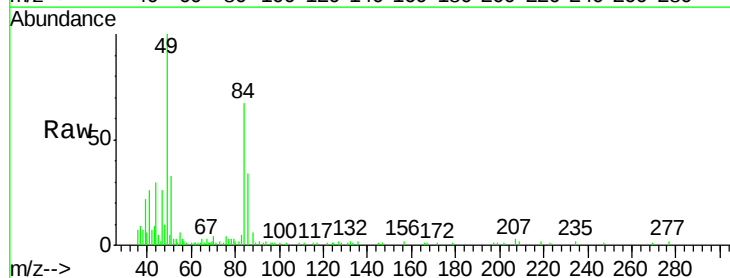
Tgt Ion: 73 Resp: 81199  
 Ion Ratio Lower Upper  
 73 100  
 57 20.1 15.9 23.9

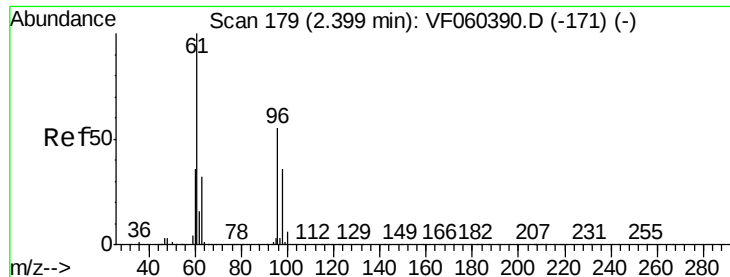


#20

Methylene Chloride  
 Concen: 5.091 ug/l  
 RT: 2.26 min Scan# 165  
 Delta R.T. -0.00 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

Tgt Ion: 84 Resp: 18208  
 Ion Ratio Lower Upper  
 84 100  
 49 150.0 130.2 195.2  
 51 49.9 41.0 61.6  
 86 51.6 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 10.692 ug/l

RT: 2.39 min Scan# 179

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

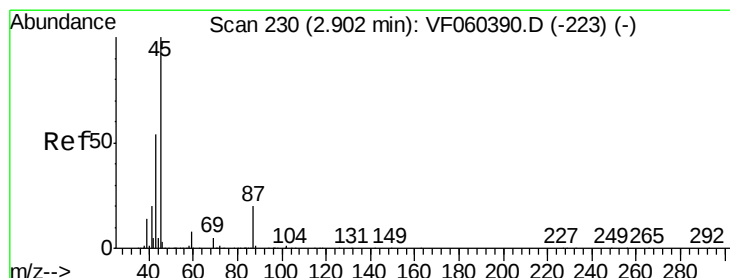
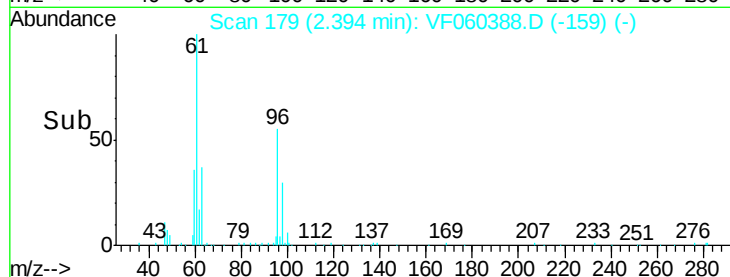
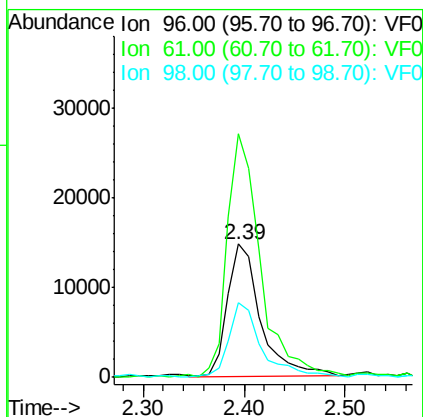
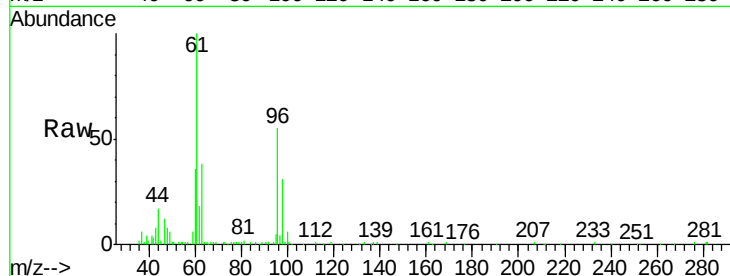
Tgt Ion: 96 Resp: 33914

Ion Ratio Lower Upper

96 100

61 169.0 146.2 219.2

98 51.8 52.6 78.8#



#22

Diisopropyl ether

Concen: 9.596 ug/l

RT: 2.91 min Scan# 231

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Tgt Ion: 45 Resp: 94799

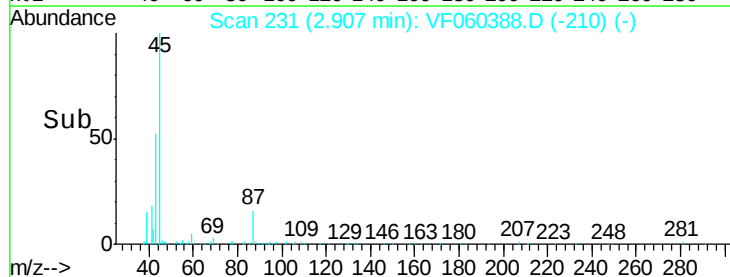
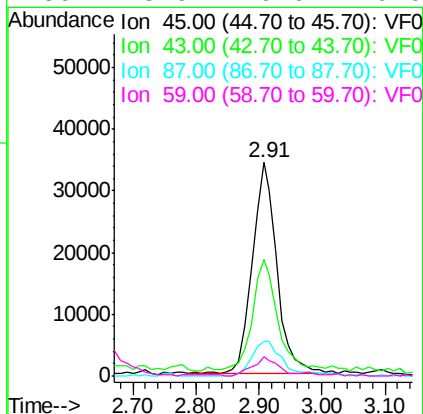
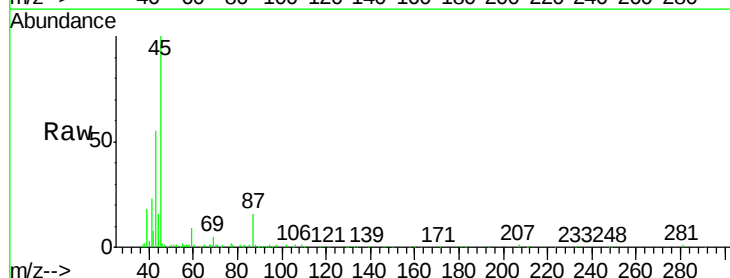
Ion Ratio Lower Upper

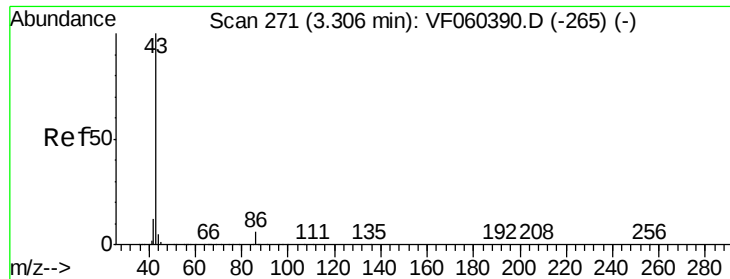
45 100

43 54.6 43.8 65.8

87 16.2 16.3 24.5#

59 8.9 6.6 10.0





#23

Vinyl Acetate

Concen: 48.472 ug/l

RT: 3.31 min Scan# 272

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

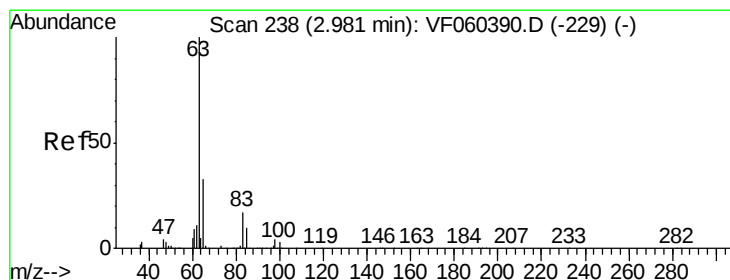
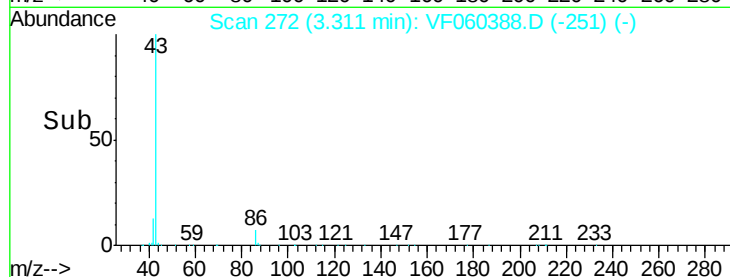
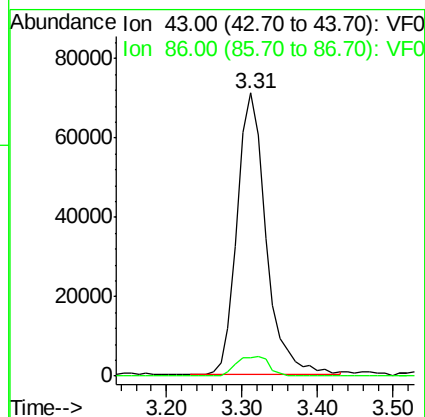
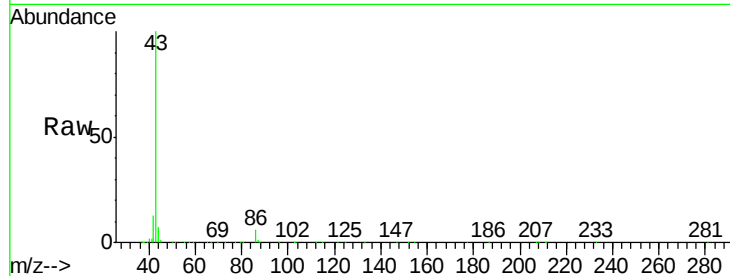
VSTDIC010

Tgt Ion: 43 Resp: 189008

Ion Ratio Lower Upper

43 100

86 6.4 5.1 7.7



#24

1,1-Dichloroethane

Concen: 10.181 ug/l

RT: 2.98 min Scan# 238

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

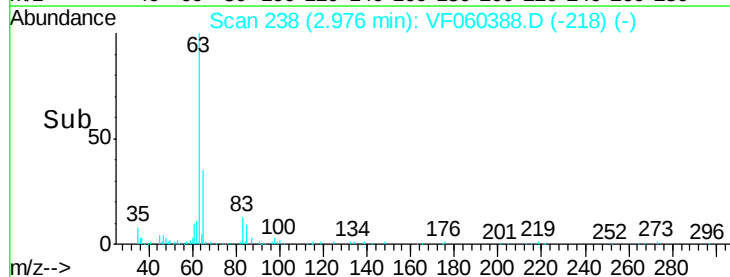
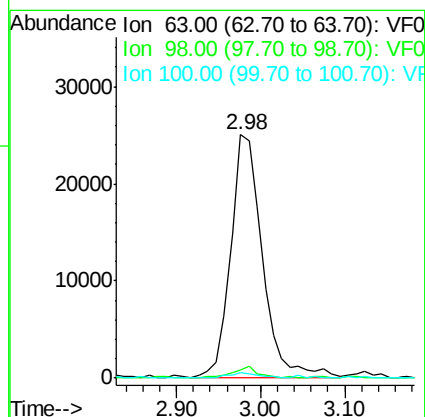
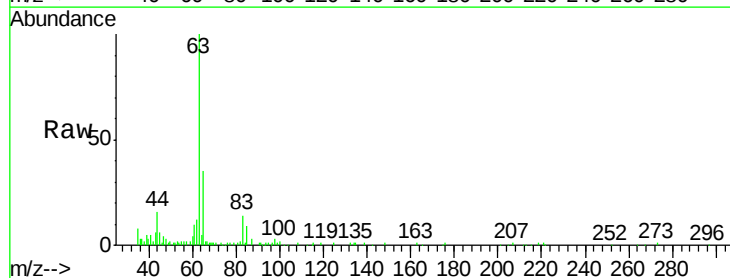
Tgt Ion: 63 Resp: 66344

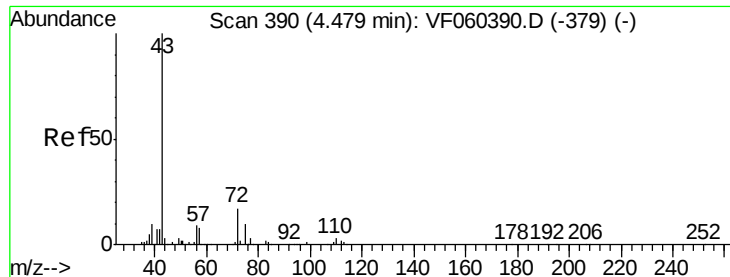
Ion Ratio Lower Upper

63 100

98 3.3 2.0 5.8

100 2.2 1.4 4.2





#25

2-Butanone

Concen: 45.531 ug/l

RT: 4.48 min Scan# 391

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

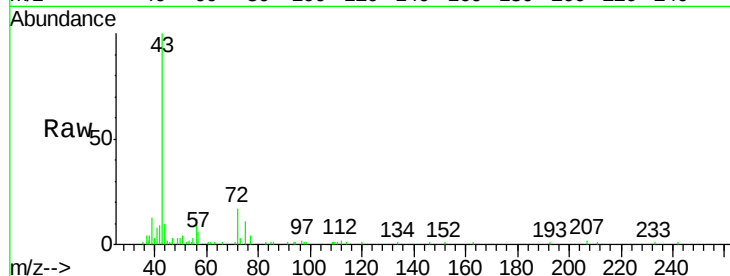
VSTDIC010

Tgt Ion: 43 Resp: 58751

Ion Ratio Lower Upper

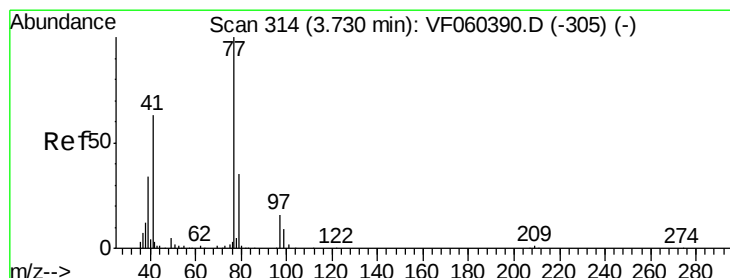
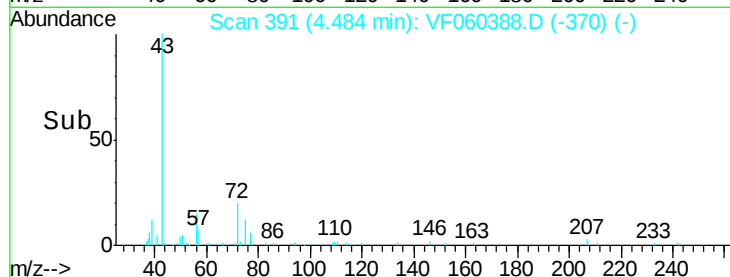
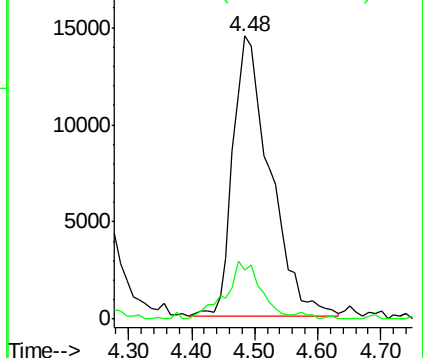
43 100

72 17.3 14.1 21.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 10.519 ug/l

RT: 3.74 min Scan# 315

Delta R.T. 0.01 min

Lab File: VF060388.D

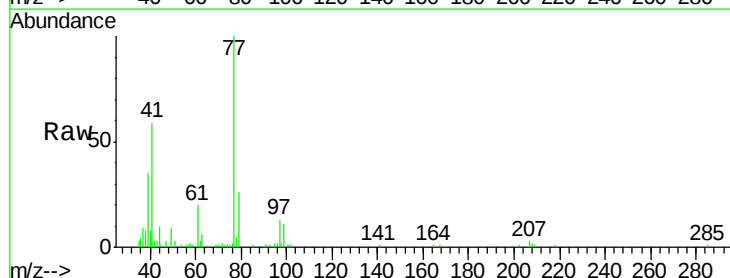
Acq: 1 Oct 2018 17:46

Tgt Ion: 77 Resp: 38663

Ion Ratio Lower Upper

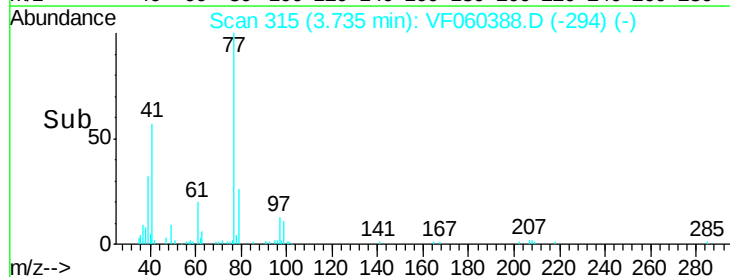
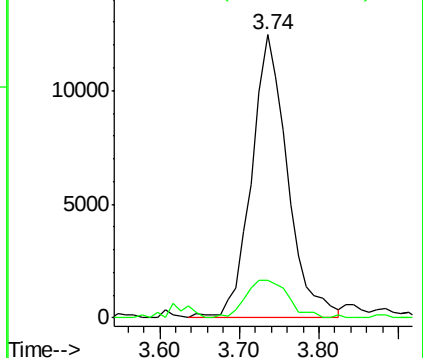
77 100

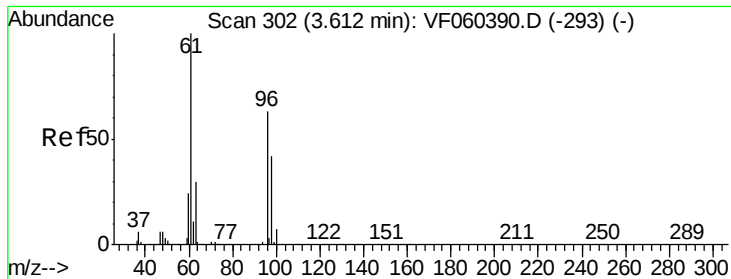
97 13.3 8.3 25.1



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



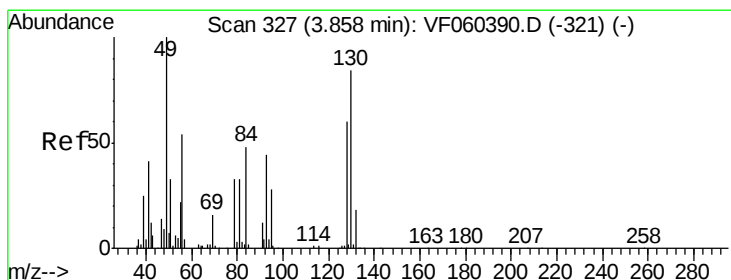
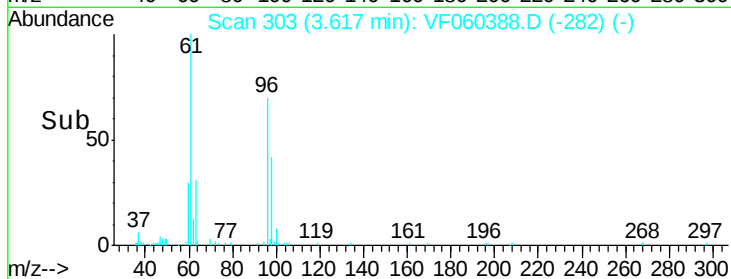
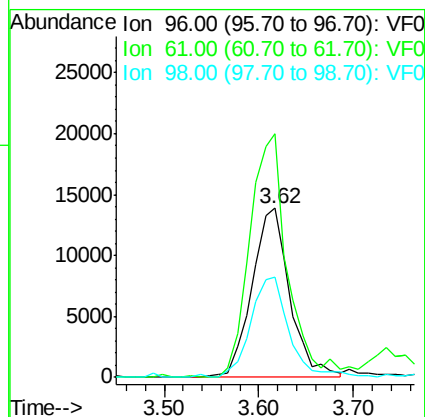
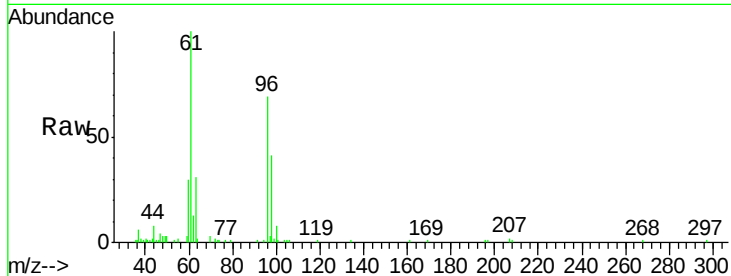


#27

cis-1,2-Dichloroethene  
Concen: 9.538 ug/l  
RT: 3.62 min Scan# 303  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

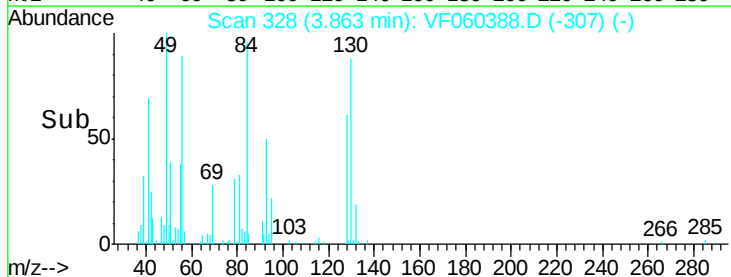
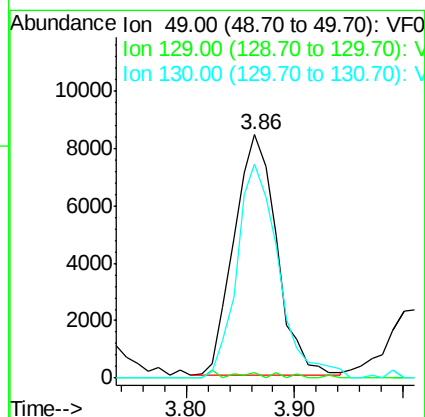
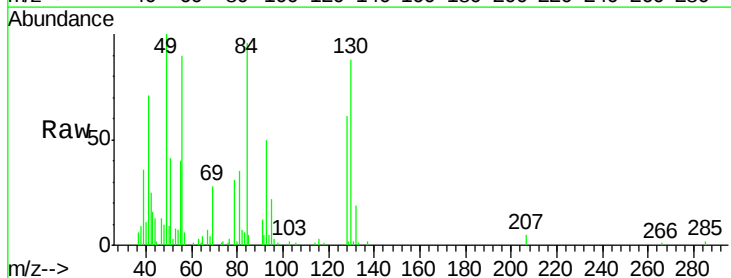
Tgt Ion: 96 Resp: 38513  
Ion Ratio Lower Upper  
96 100  
61 144.2 0.0 318.2  
98 59.4 0.0 134.0

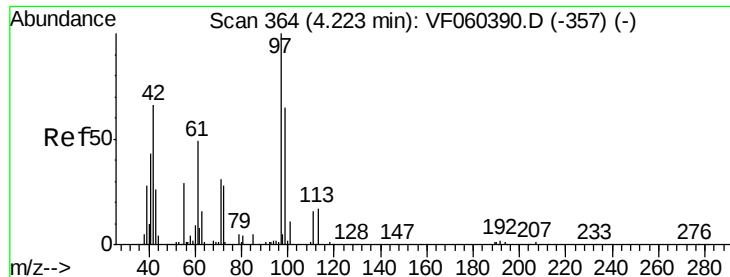


#28

Bromochloromethane  
Concen: 9.099 ug/l  
RT: 3.86 min Scan# 328  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion: 49 Resp: 23078  
Ion Ratio Lower Upper  
49 100  
129 2.4 0.0 4.6  
130 87.9 67.3 100.9





#29

Tetrahydrofuran

Concen: 40.977 ug/l

RT: 4.24 min Scan# 366

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

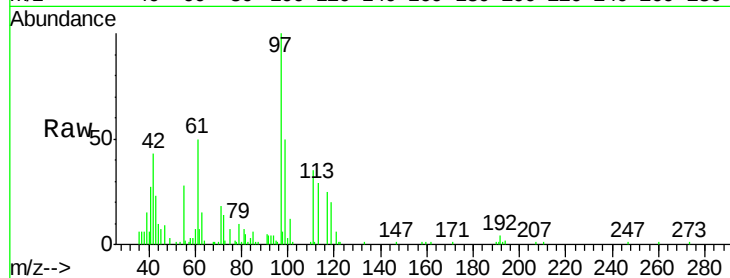
Tgt Ion: 42 Resp: 19874

Ion Ratio Lower Upper

42 100

72 40.7 33.6 50.4

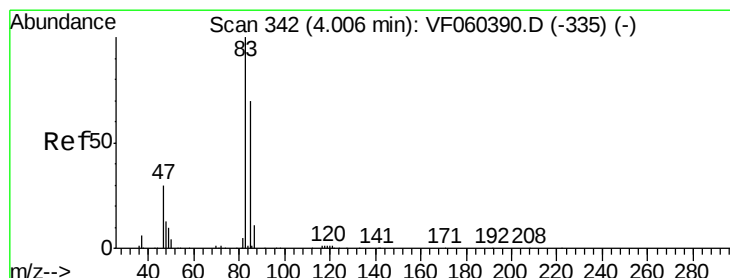
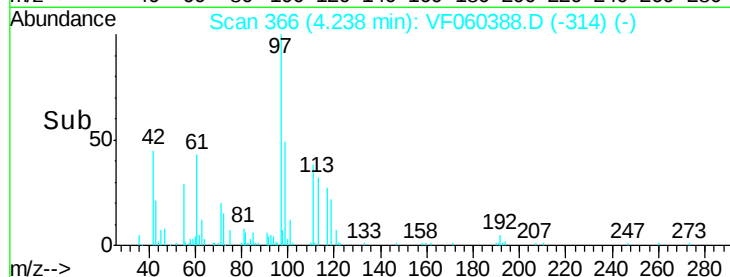
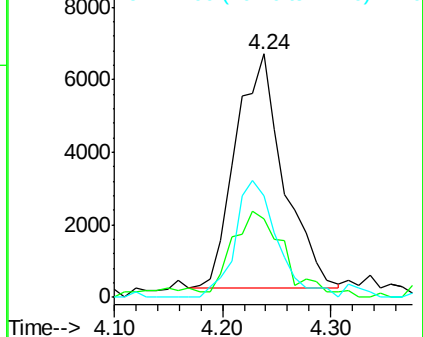
71 44.3 32.7 49.1



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: 10.177 ug/l

RT: 4.01 min Scan# 343

Delta R.T. 0.01 min

Lab File: VF060388.D

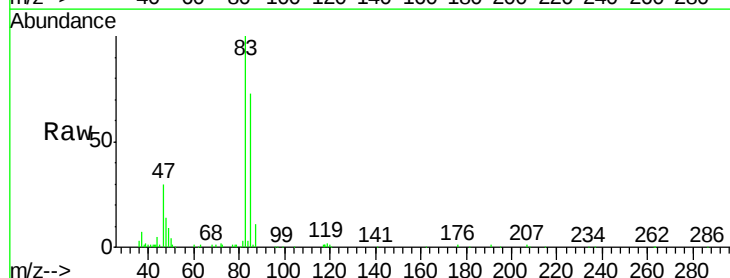
Acq: 1 Oct 2018 17:46

Tgt Ion: 83 Resp: 79553

Ion Ratio Lower Upper

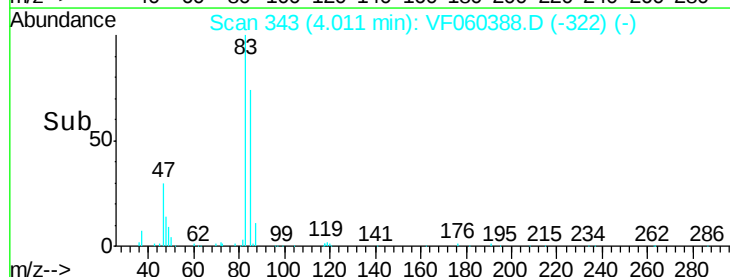
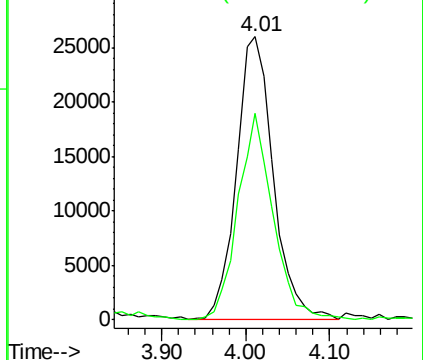
83 100

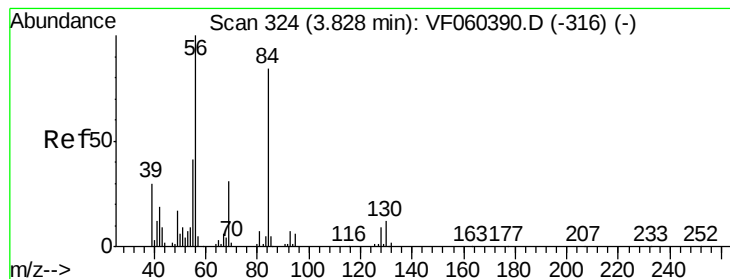
85 73.2 55.9 83.9



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 8.607 ug/l

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

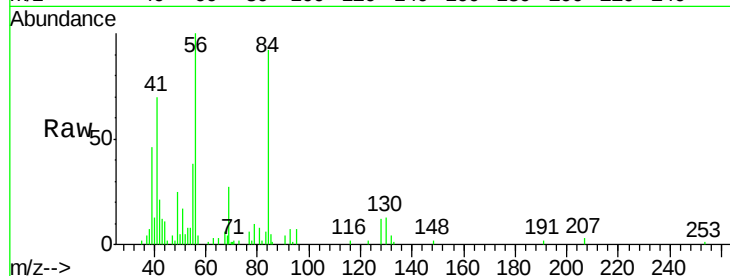
Tgt Ion: 56 Resp: 46291

Ion Ratio Lower Upper

56 100

69 26.7 25.5 38.3

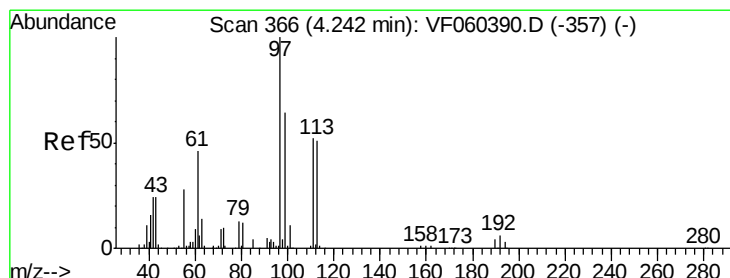
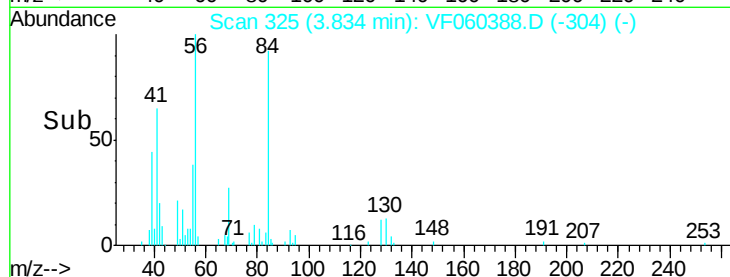
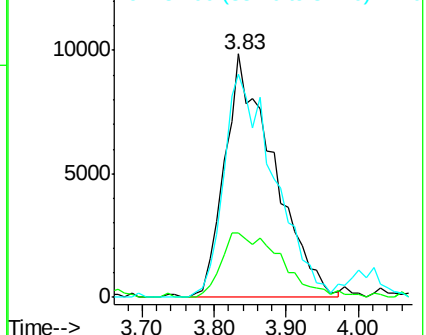
84 91.5 67.4 101.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 11.146 ug/l

RT: 4.25 min Scan# 367

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

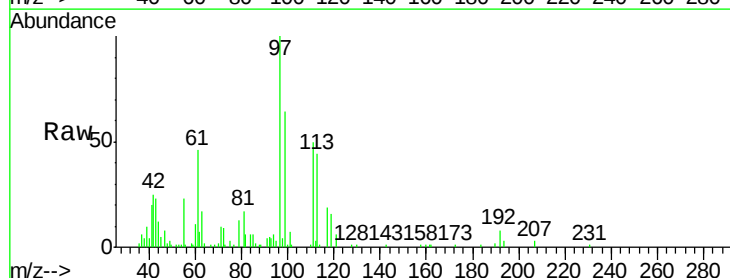
Tgt Ion: 97 Resp: 69814

Ion Ratio Lower Upper

97 100

99 64.3 51.0 76.4

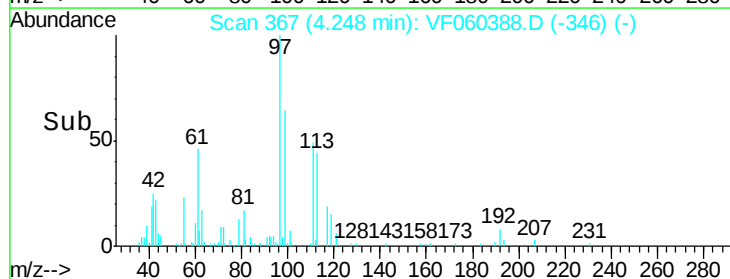
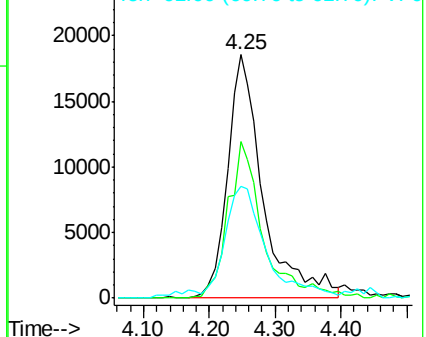
61 46.0 37.5 56.3

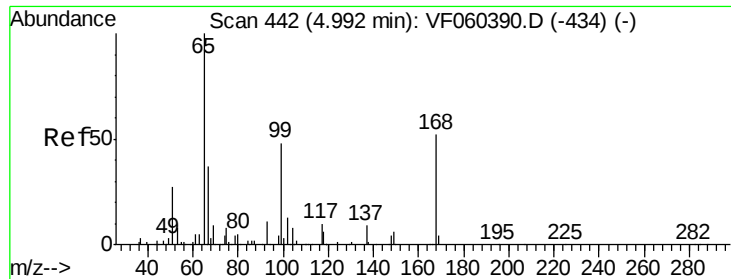


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

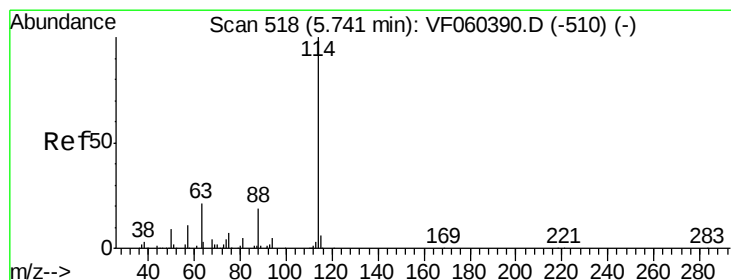
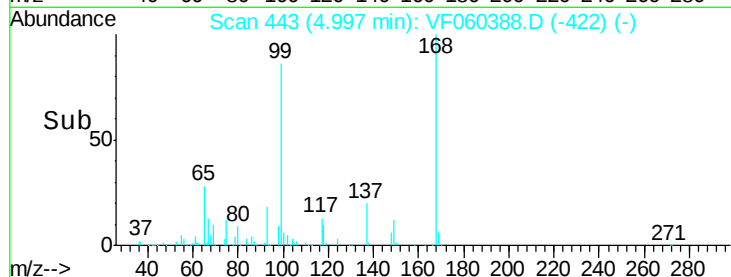
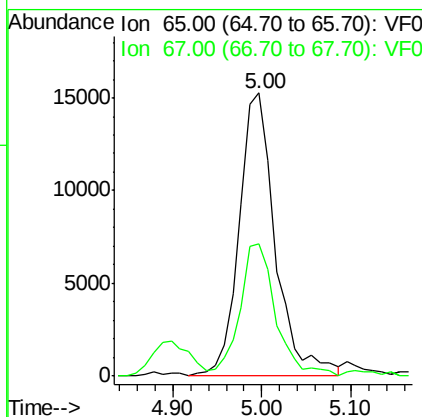
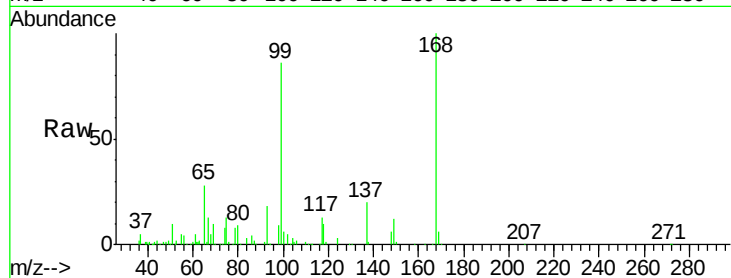




#33  
 1,2-Dichloroethane-d4  
 Concen: 11.643 ug/l  
 RT: 5.00 min Scan# 443  
 Delta R.T. 0.01 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

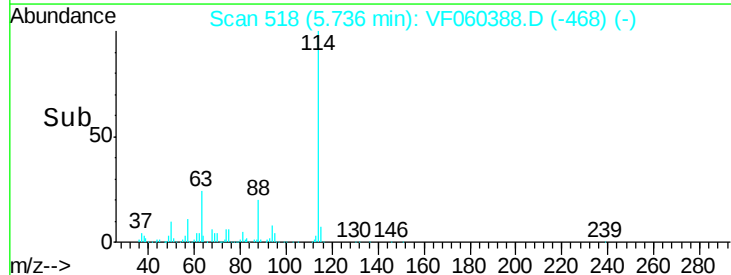
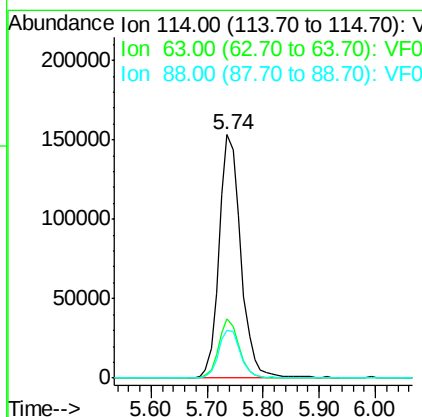
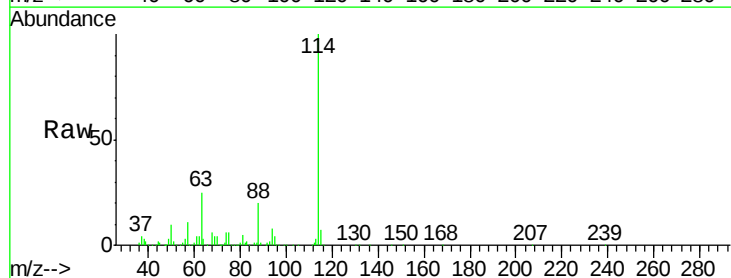
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

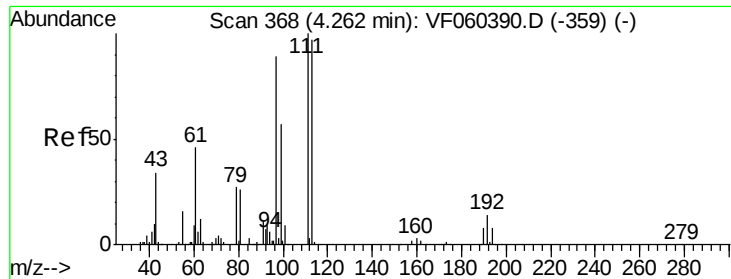
Tgt Ion: 65 Resp: 43033  
 Ion Ratio Lower Upper  
 65 100  
 67 46.9 0.0 89.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.74 min Scan# 518  
 Delta R.T. -0.00 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

Tgt Ion: 114 Resp: 417409  
 Ion Ratio Lower Upper  
 114 100  
 63 24.5 0.0 42.2  
 88 19.8 0.0 38.8





#35

Dibromofluoromethane

Concen: 10.842 ug/l

RT: 4.27 min Scan# 369

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

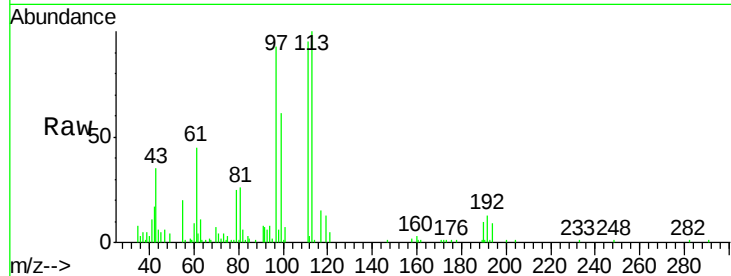
Tgt Ion:113 Resp: 41129

Ion Ratio Lower Upper

113 100

111 94.7 82.3 123.5

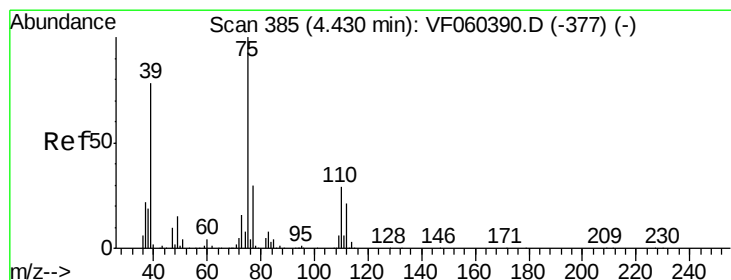
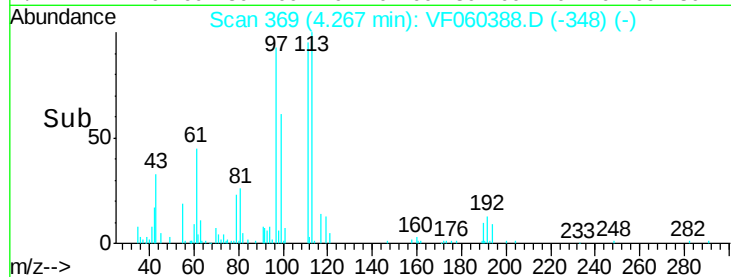
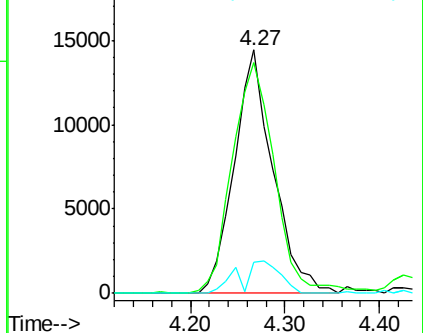
192 12.7 11.8 17.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 10.209 ug/l

RT: 4.43 min Scan# 386

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

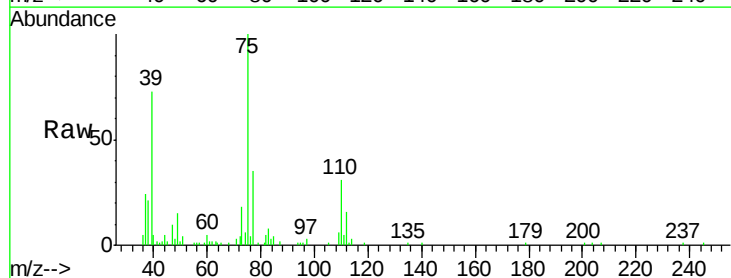
Tgt Ion: 75 Resp: 53590

Ion Ratio Lower Upper

75 100

110 30.5 14.5 43.6

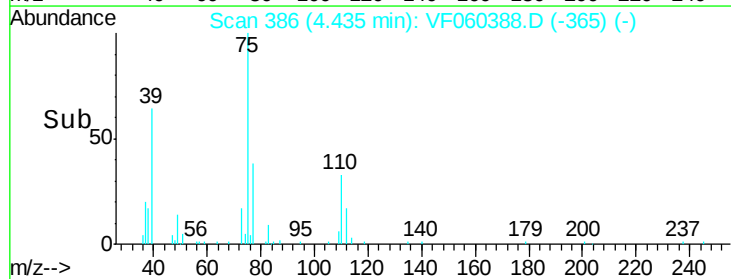
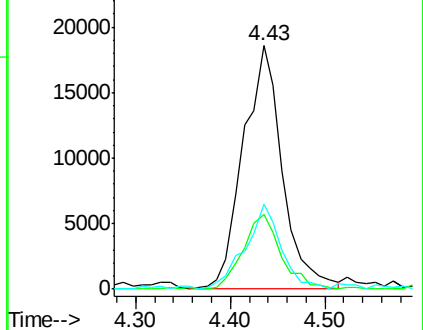
77 34.9 24.3 36.5

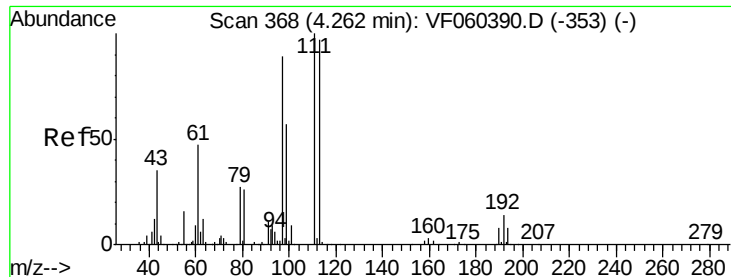


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 10.327 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

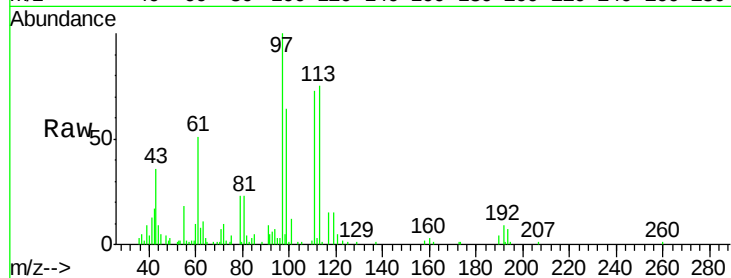
Tgt Ion: 43 Resp: 22399

Ion Ratio Lower Upper

43 100

61 142.3 105.1 157.7

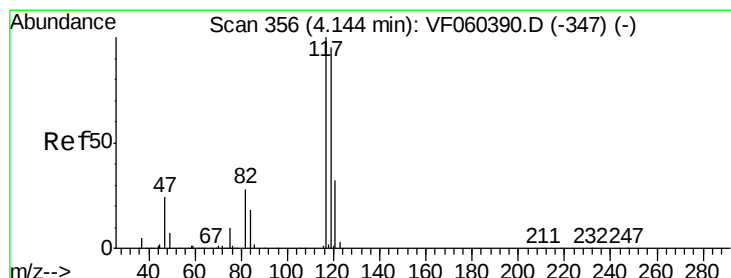
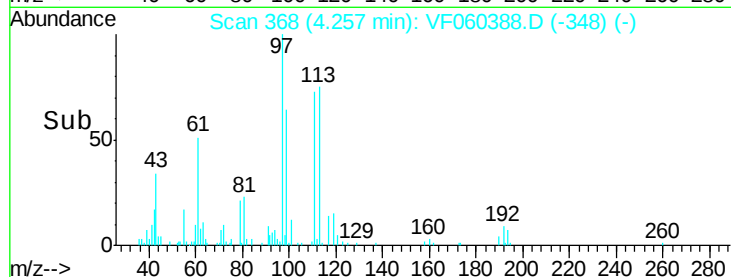
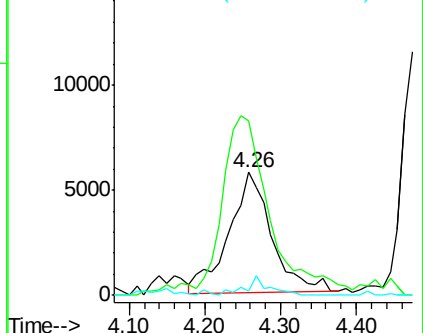
70 3.4 8.0 12.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 11.225 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

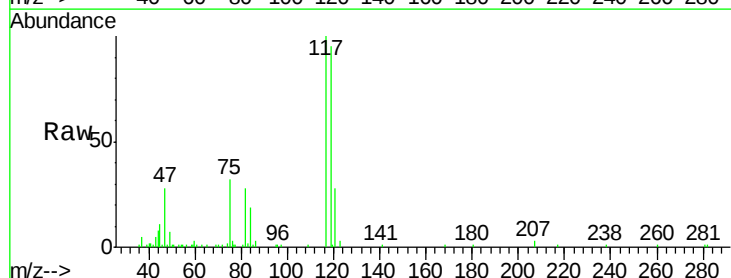
Tgt Ion: 117 Resp: 66333

Ion Ratio Lower Upper

117 100

119 95.3 75.5 113.3

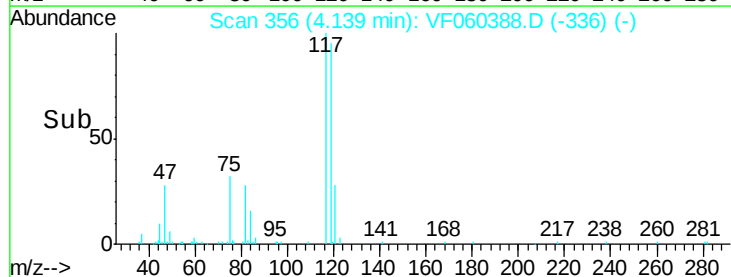
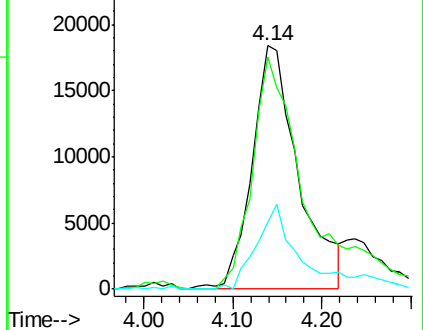
121 27.5 25.4 38.0

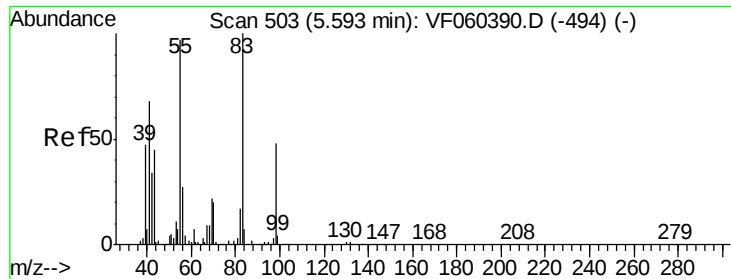


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

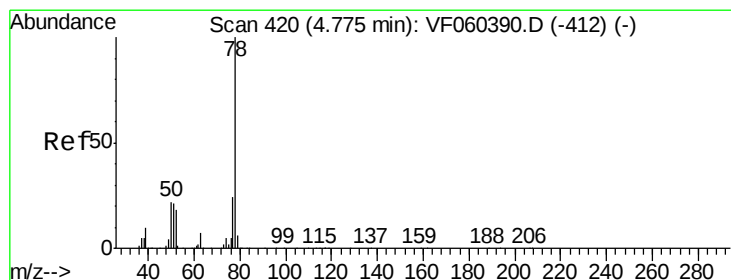
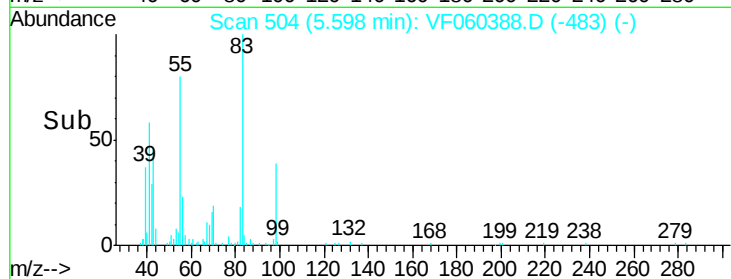
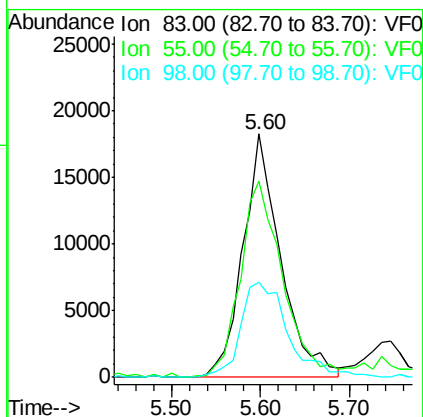
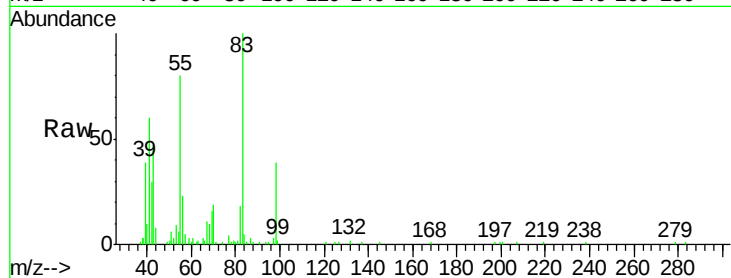




#39  
Methylcyclohexane  
Concen: 9.739 ug/l  
RT: 5.60 min Scan# 504  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

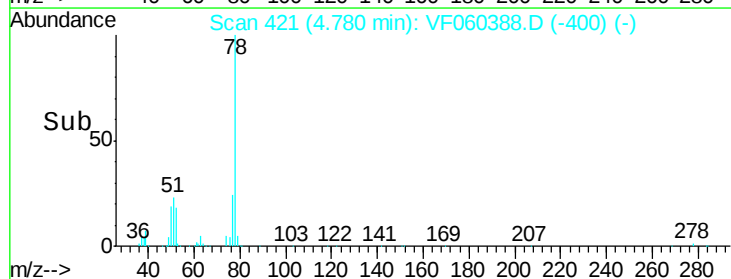
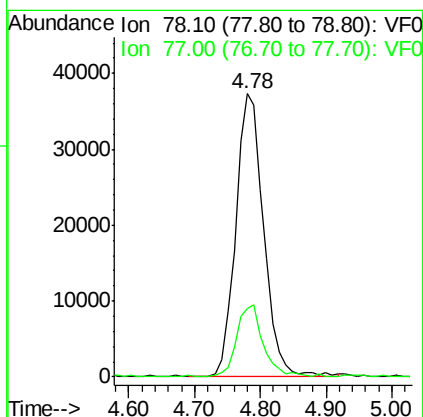
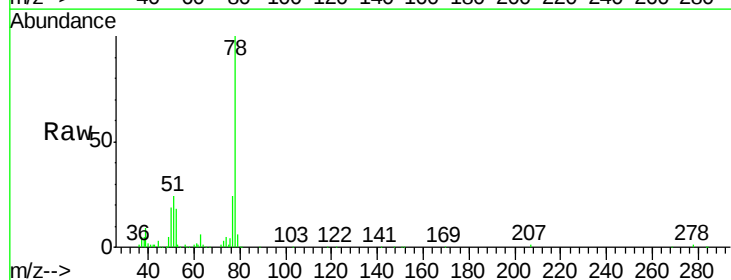
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

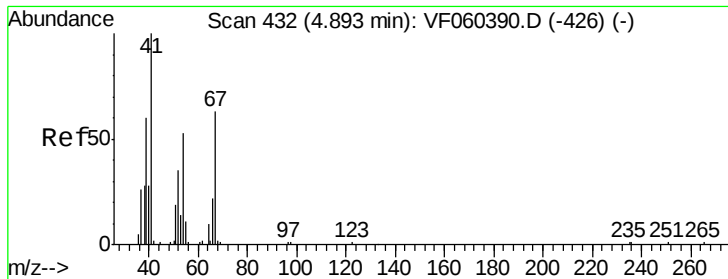
Tgt Ion: 83 Resp: 53719  
Ion Ratio Lower Upper  
83 100  
55 80.4 77.5 116.3  
98 39.0 38.7 58.1



#40  
Benzene  
Concen: 9.643 ug/l  
RT: 4.78 min Scan# 421  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion: 78 Resp: 111329  
Ion Ratio Lower Upper  
78 100  
77 24.3 19.2 28.8





#41

Methacrylonitrile

Concen: 9.195 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

Tgt Ion: 41 Resp: 10699

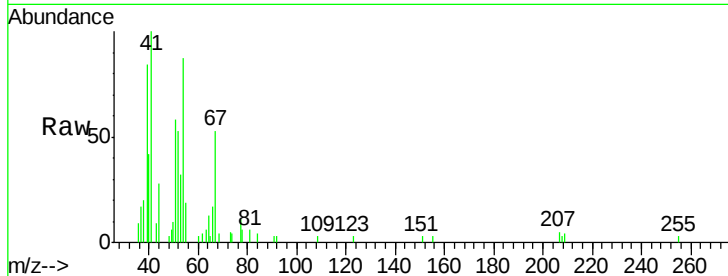
Ion Ratio Lower Upper

41 100

39 83.9 55.0 82.4#

67 52.7 49.6 74.4

52 53.4 38.8 58.2

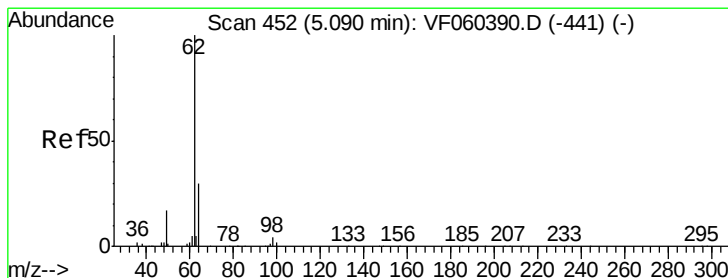
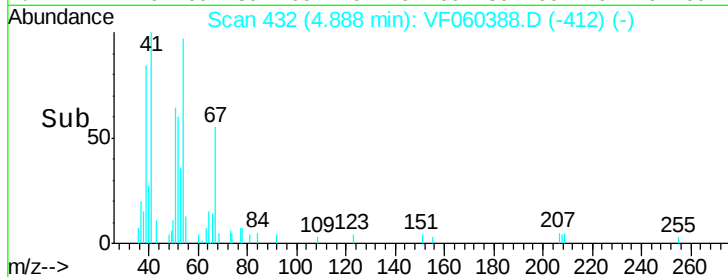
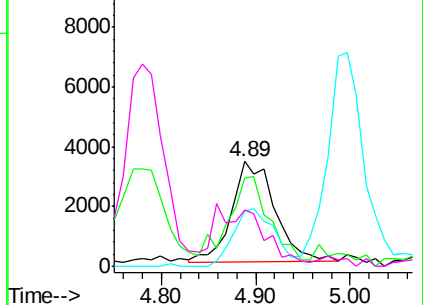


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 11.179 ug/l

RT: 5.09 min Scan# 452

Delta R.T. -0.00 min

Lab File: VF060388.D

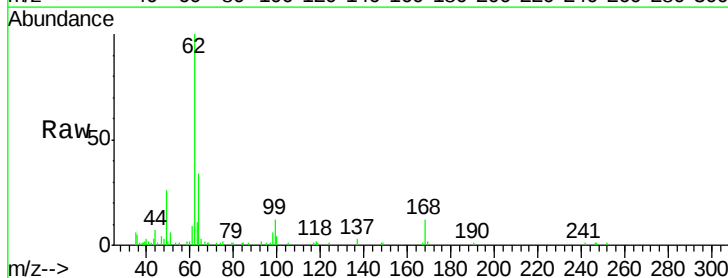
Acq: 1 Oct 2018 17:46

Tgt Ion: 62 Resp: 49969

Ion Ratio Lower Upper

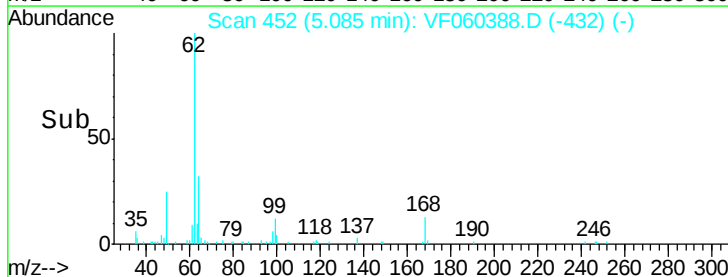
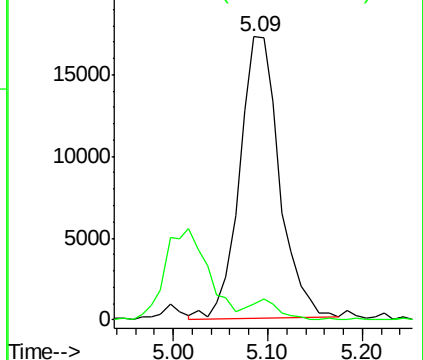
62 100

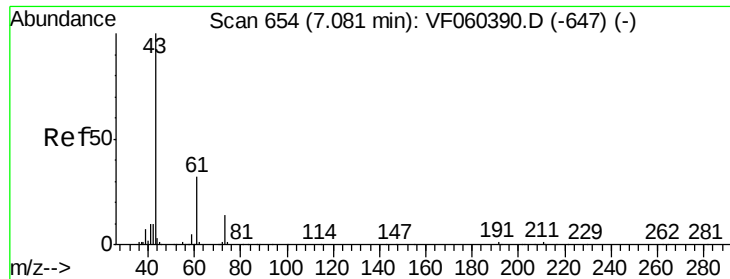
98 5.8 0.0 11.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 9.264 ug/l

RT: 7.09 min Scan# 655

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

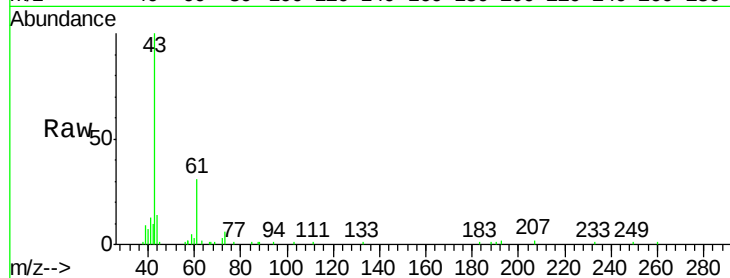
Tgt Ion: 43 Resp: 24216

Ion Ratio Lower Upper

43 100

61 30.6 25.4 38.2

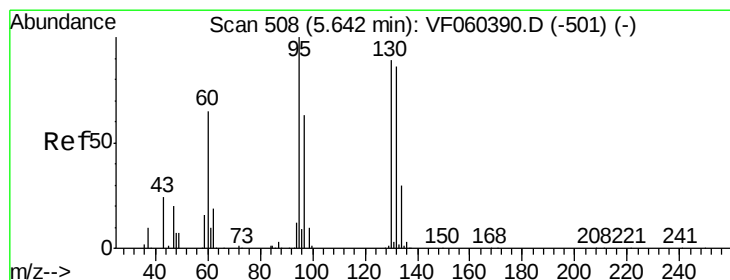
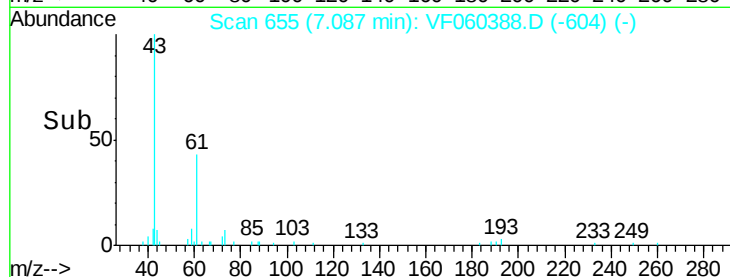
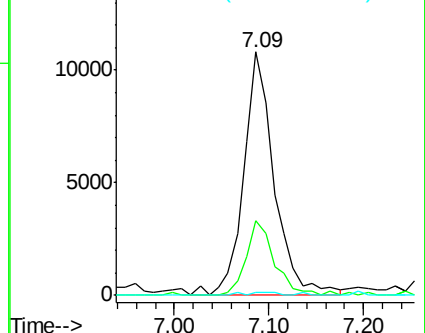
87 1.3 0.3 0.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 10.205 ug/l

RT: 5.65 min Scan# 509

Delta R.T. 0.01 min

Lab File: VF060388.D

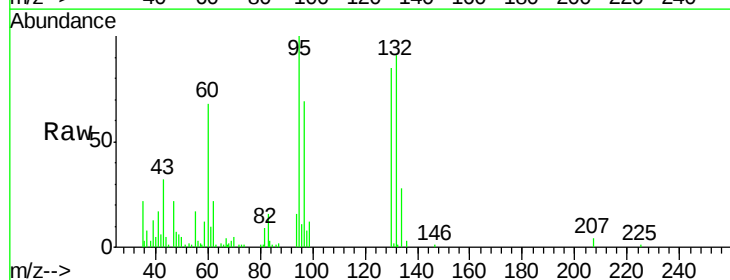
Acq: 1 Oct 2018 17:46

Tgt Ion: 130 Resp: 35296

Ion Ratio Lower Upper

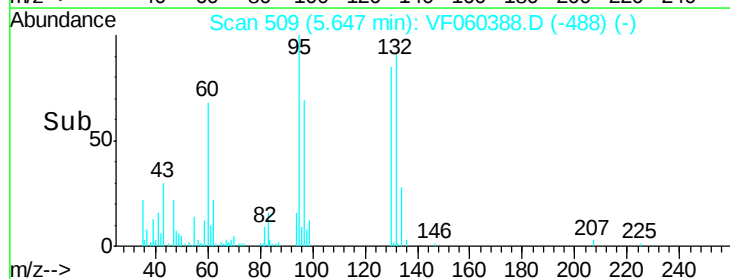
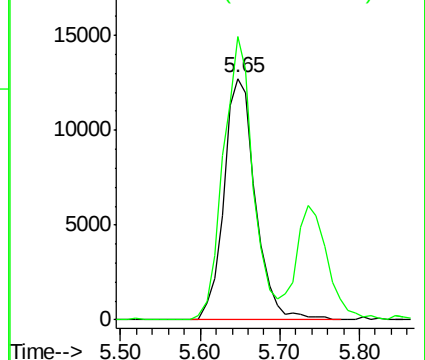
130 100

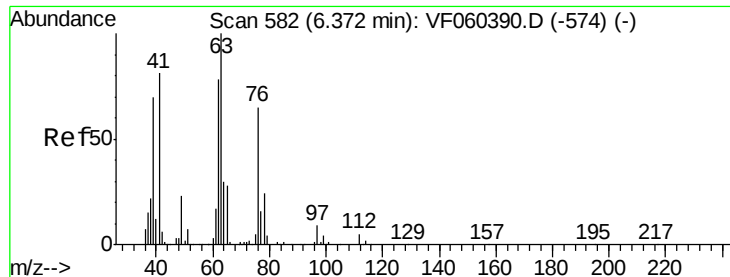
95 117.3 0.0 224.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 9.584 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

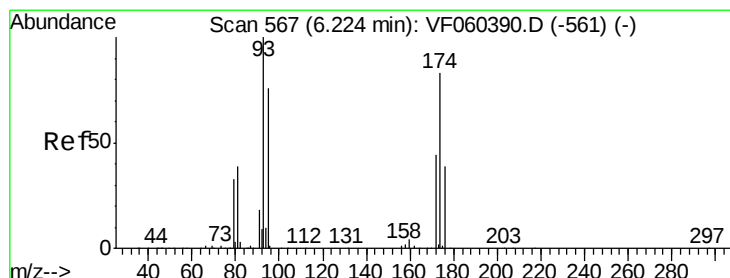
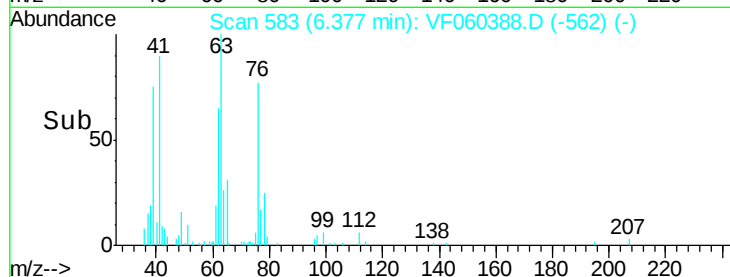
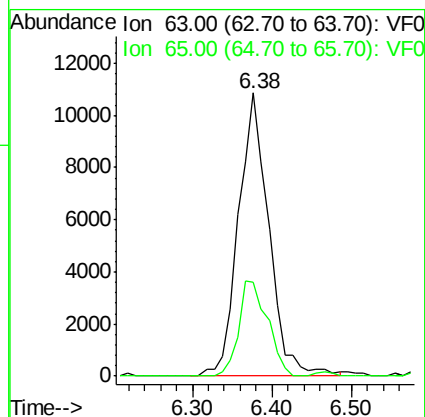
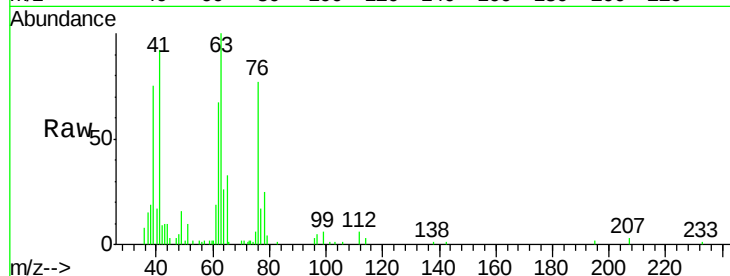
VSTDIC010

Tgt Ion: 63 Resp: 28829

Ion Ratio Lower Upper

63 100

65 34.1 22.7 34.1#



#46

Dibromomethane

Concen: 10.422 ug/l

RT: 6.23 min Scan# 568

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

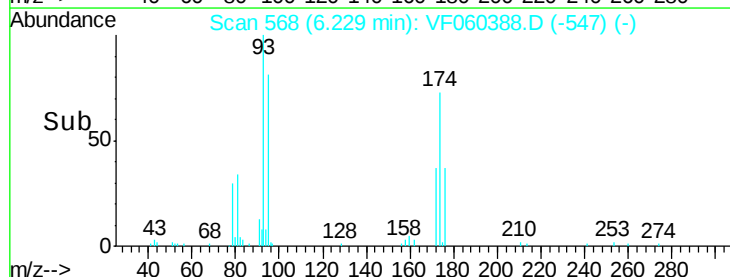
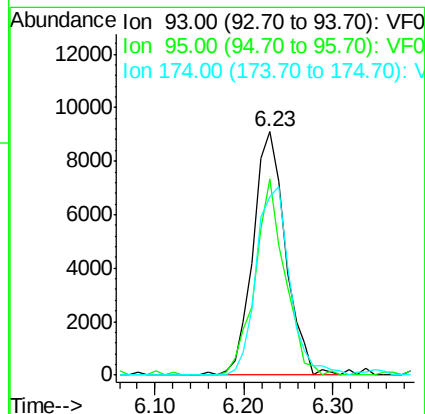
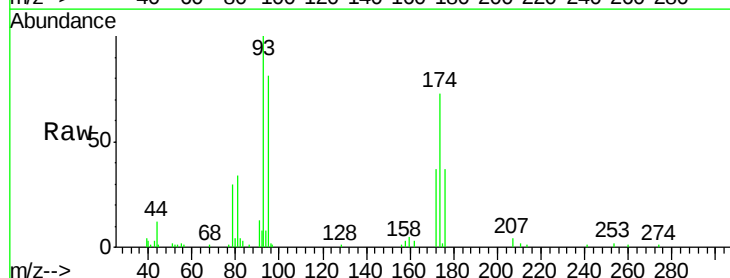
Tgt Ion: 93 Resp: 22899

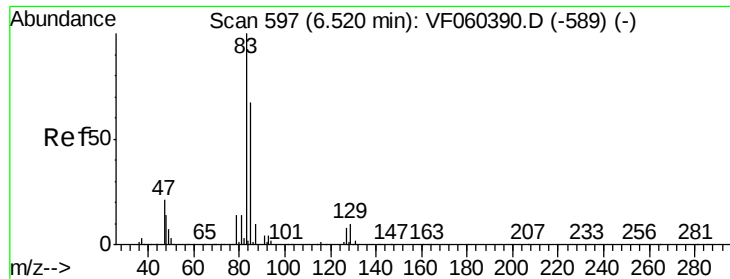
Ion Ratio Lower Upper

93 100

95 80.7 61.1 91.7

174 75.1 66.7 100.1





#47

Bromodichloromethane

Concen: 10.143 ug/l

RT: 6.52 min Scan# 598

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

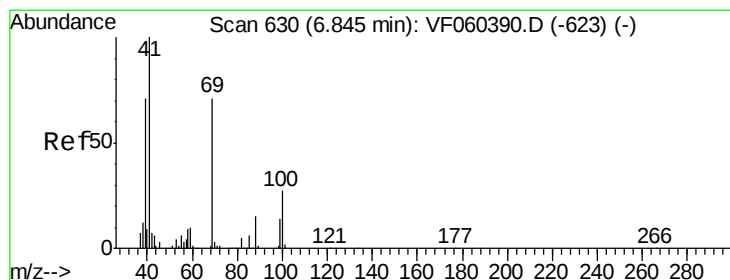
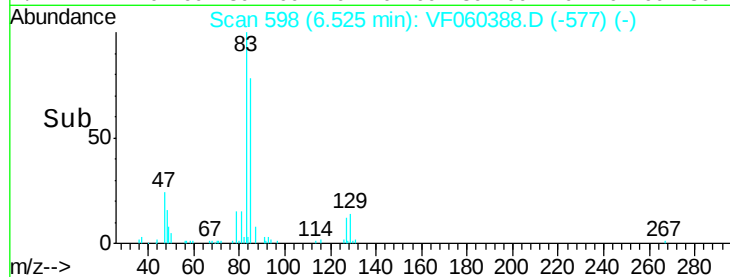
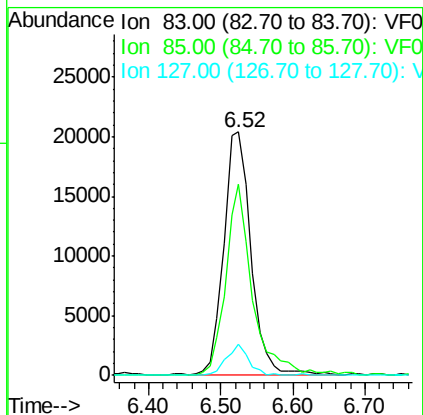
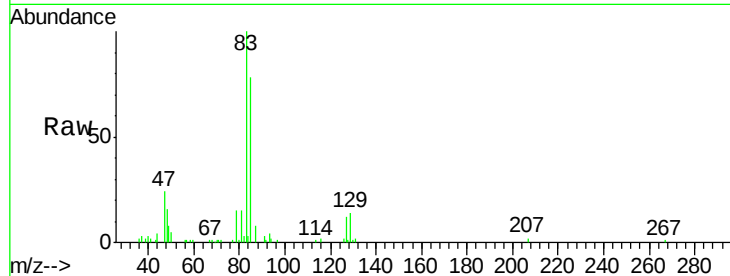
Tgt Ion: 83 Resp: 53820

Ion Ratio Lower Upper

83 100

85 78.4 53.2 79.8

127 12.8 6.6 9.8#



#48

Methyl methacrylate

Concen: 9.808 ug/l

RT: 6.85 min Scan# 631

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

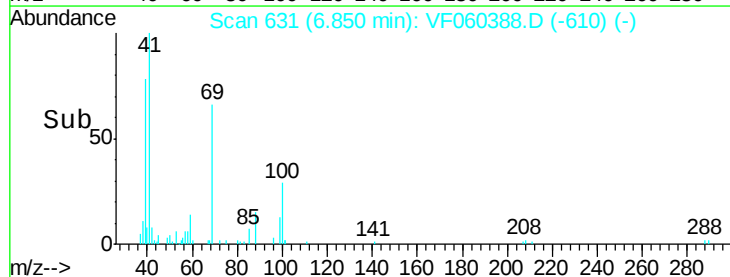
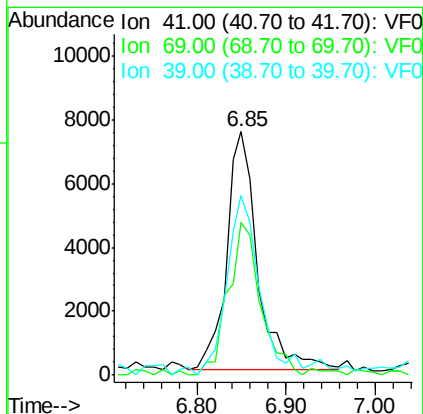
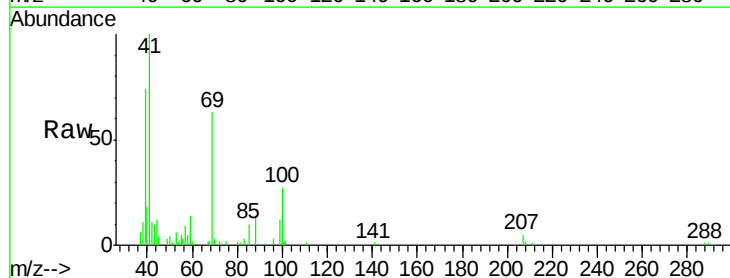
Tgt Ion: 41 Resp: 18234

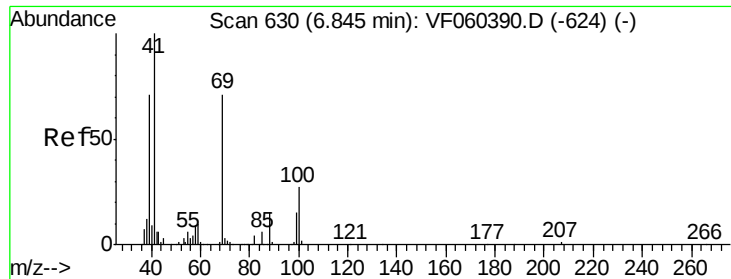
Ion Ratio Lower Upper

41 100

69 62.5 56.3 84.5

39 74.0 56.9 85.3

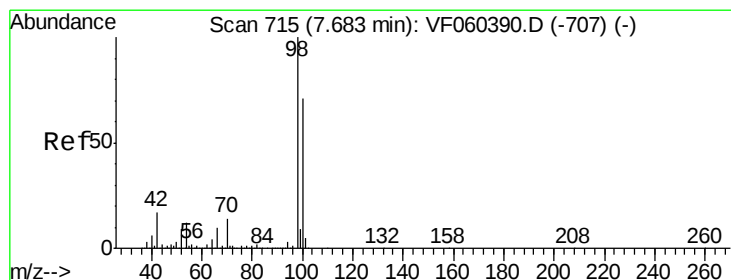
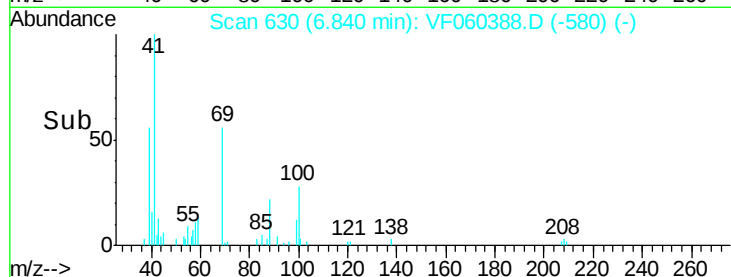
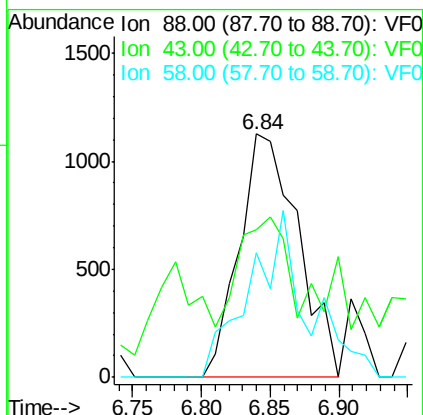
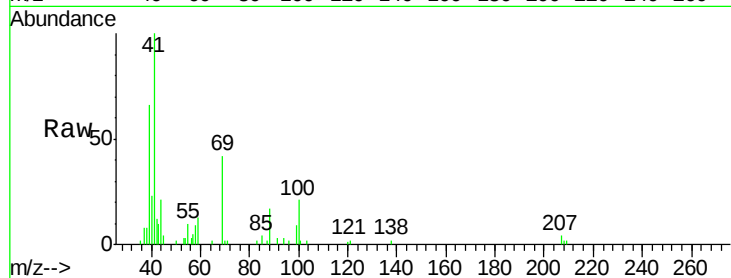




#49  
1,4-Dioxane  
Concen: 203.668 ug/l  
RT: 6.84 min Scan# 630  
Delta R.T. -0.00 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

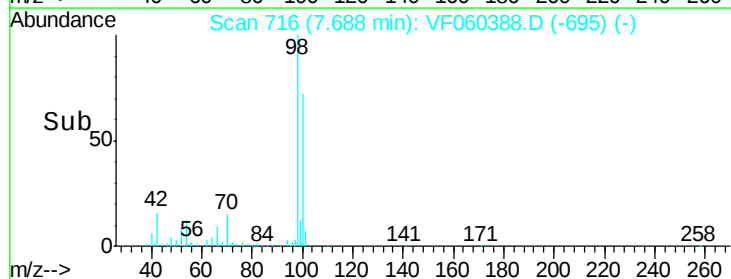
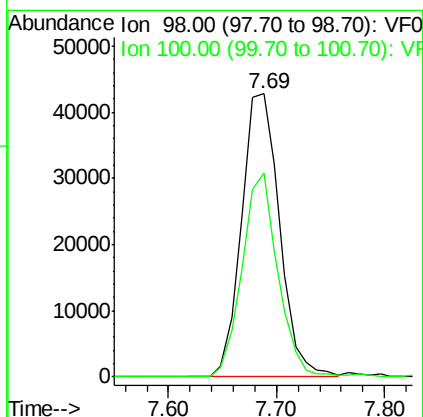
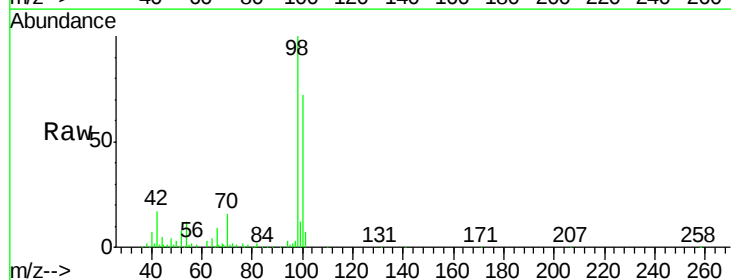
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

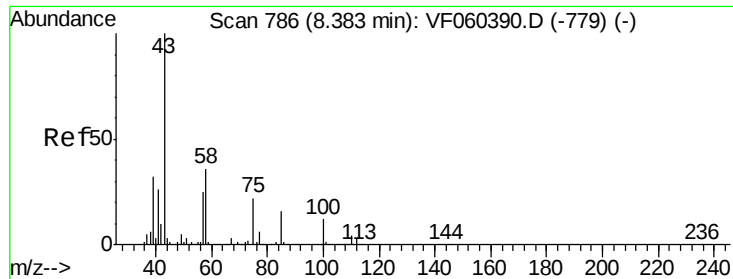
Tgt Ion: 88 Resp: 3351  
Ion Ratio Lower Upper  
88 100  
43 60.7 38.3 57.5#  
58 51.0 47.4 71.2



#50  
Toluene-d8  
Concen: 10.735 ug/l  
RT: 7.69 min Scan# 716  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion: 98 Resp: 104549  
Ion Ratio Lower Upper  
98 100  
100 72.1 56.5 84.7

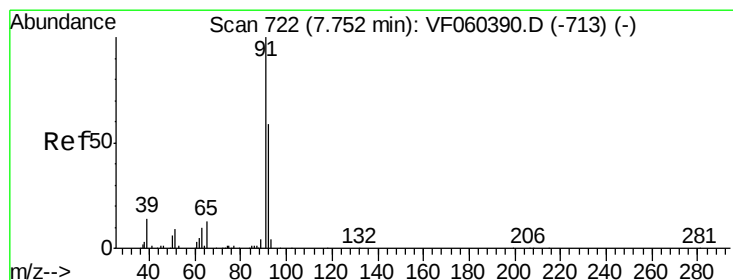
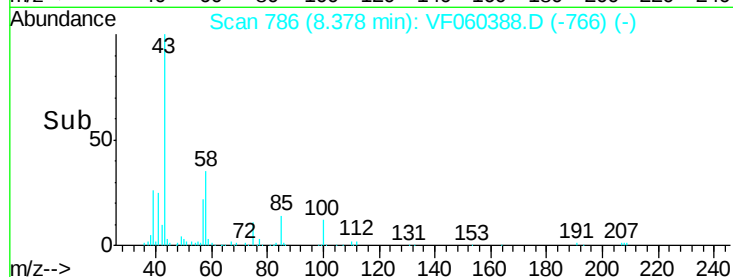
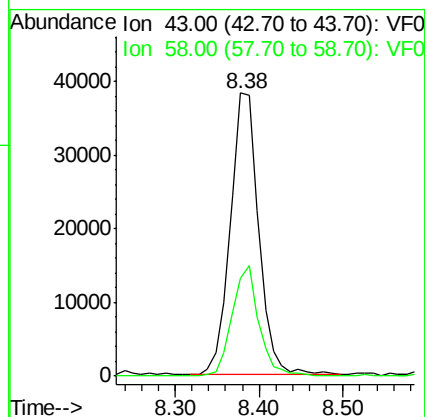
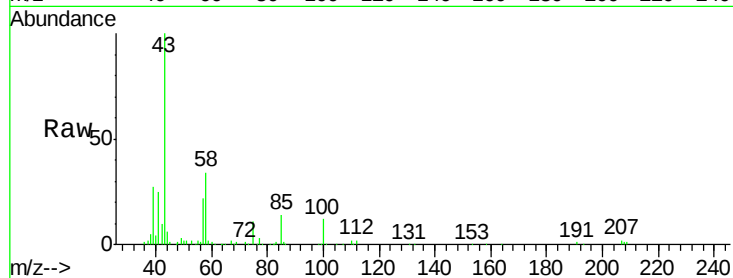




#51  
4-Methyl-2-Pentanone  
Concen: 45.892 ug/l  
RT: 8.38 min Scan# 786  
Delta R.T. -0.00 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

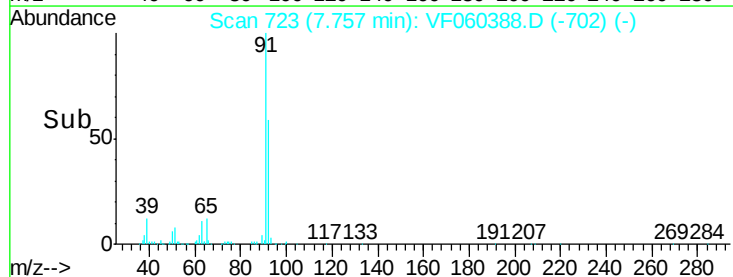
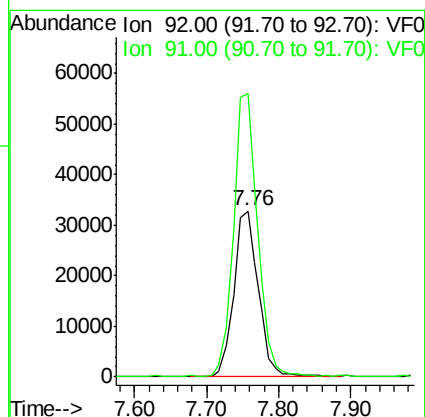
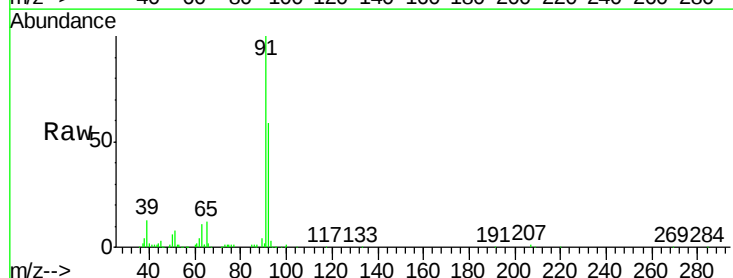
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

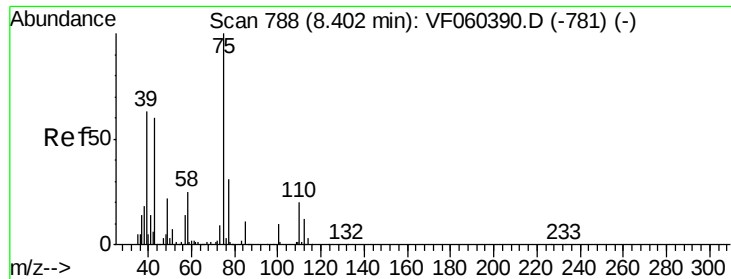
Tgt Ion: 43 Resp: 90051  
Ion Ratio Lower Upper  
43 100  
58 34.5 28.5 42.7



#52  
Toluene  
Concen: 10.539 ug/l  
RT: 7.76 min Scan# 723  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion: 92 Resp: 77645  
Ion Ratio Lower Upper  
92 100  
91 170.3 135.4 203.0





#53

t-1,3-Dichloropropene

Concen: 11.020 ug/l

RT: 8.40 min Scan# 788

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

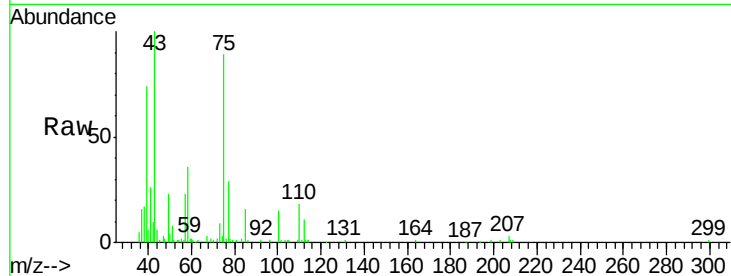
VSTDIC010

Tgt Ion: 75 Resp: 46614

Ion Ratio Lower Upper

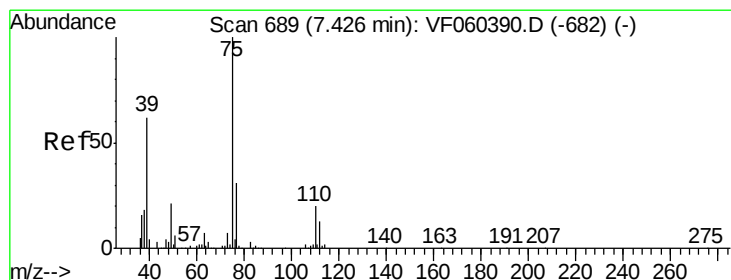
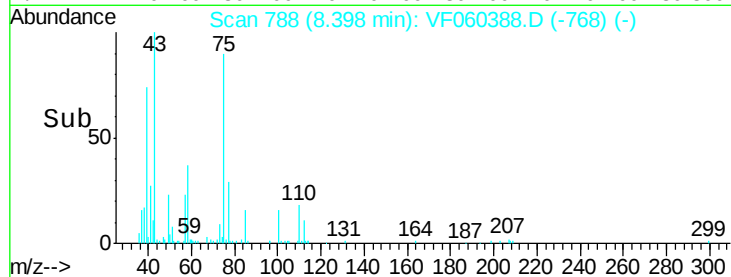
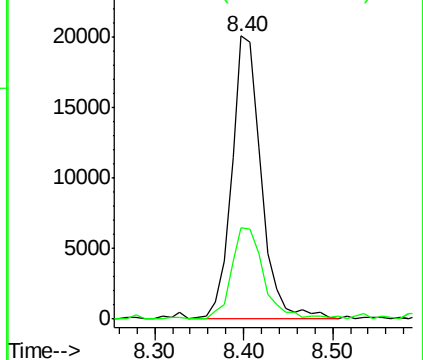
75 100

77 32.5 24.6 36.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 9.838 ug/l

RT: 7.43 min Scan# 690

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

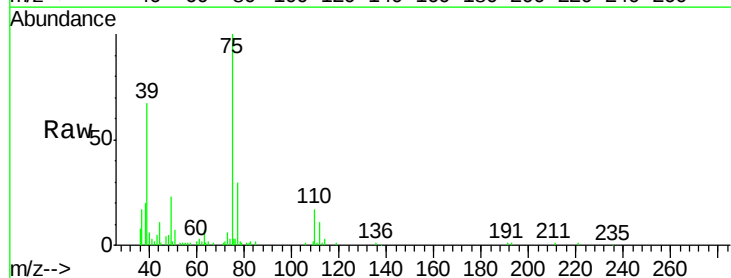
Tgt Ion: 75 Resp: 52213

Ion Ratio Lower Upper

75 100

77 30.4 25.2 37.8

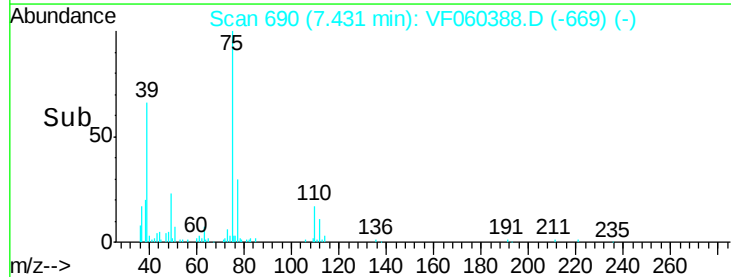
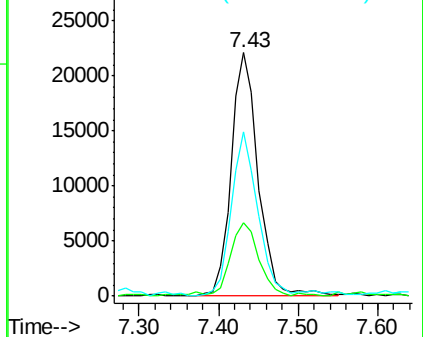
39 67.3 49.7 74.5

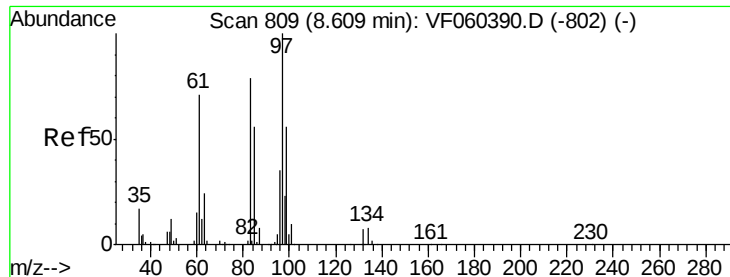


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 10.700 ug/l

RT: 8.61 min Scan# 810

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 23919

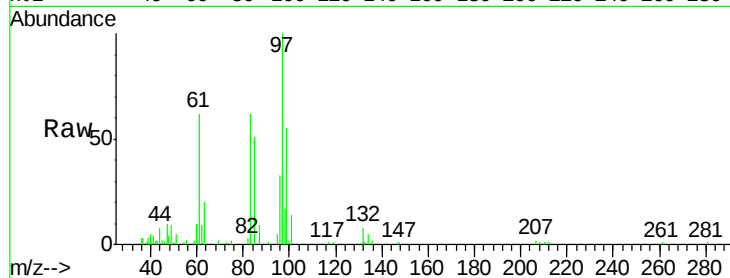
Ion Ratio Lower Upper

97 100

83 62.1 63.4 95.0#

85 50.9 44.5 66.7

99 54.7 45.1 67.7

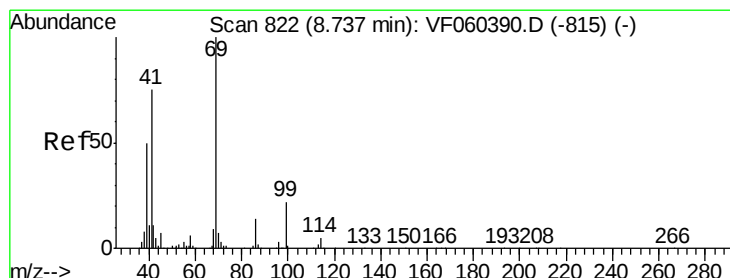
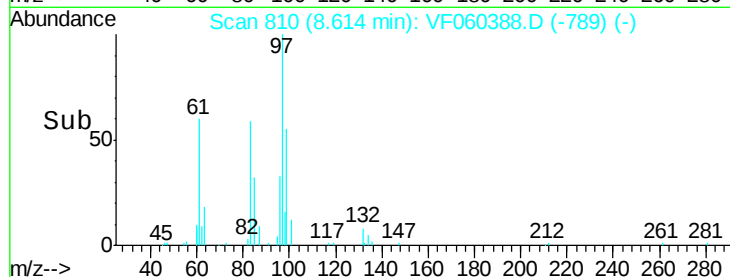
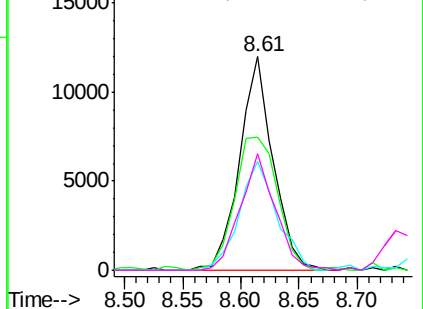


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 10.332 ug/l

RT: 8.73 min Scan# 822

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

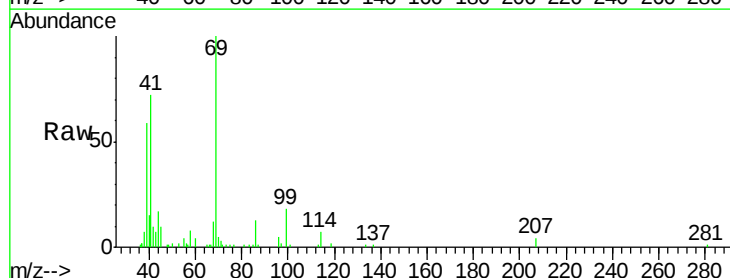
Tgt Ion: 69 Resp: 27926

Ion Ratio Lower Upper

69 100

41 71.6 60.2 90.4

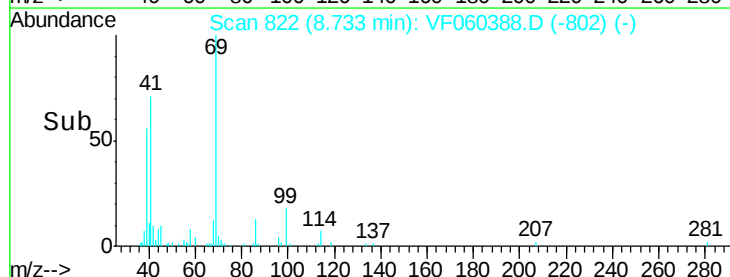
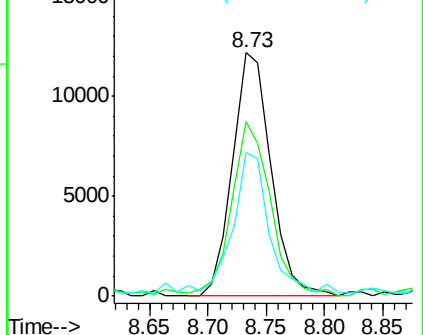
39 59.3 40.2 60.2

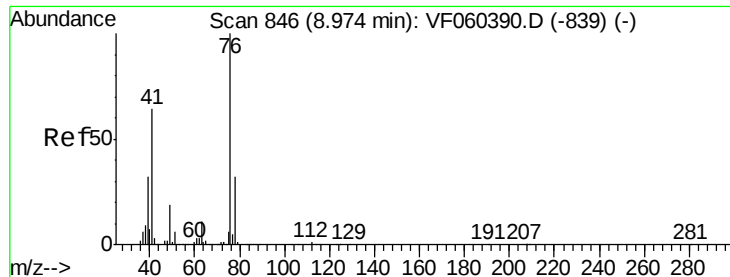


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 11.087 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

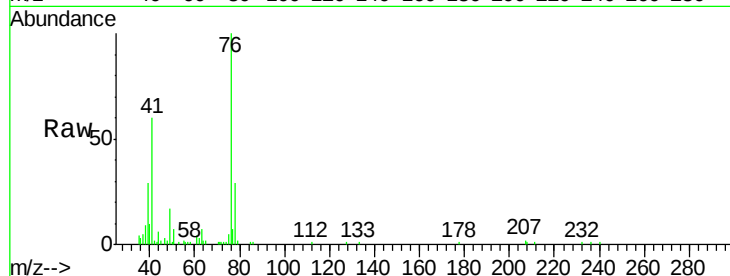
VSTDIC010

Tgt Ion: 76 Resp: 41216

Ion Ratio Lower Upper

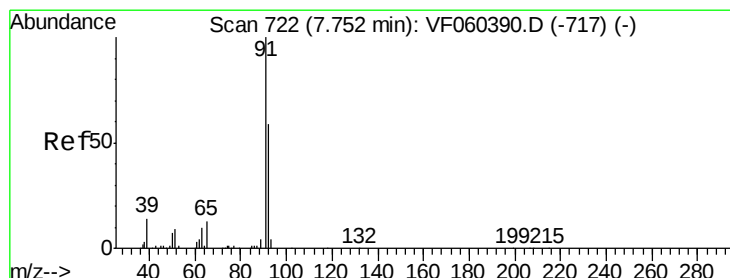
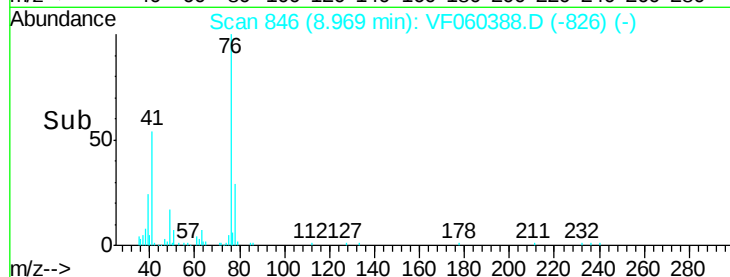
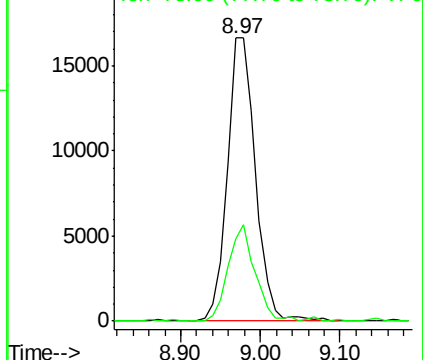
76 100

78 29.0 25.3 37.9



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: 58.193 ug/l

RT: 7.76 min Scan# 723

Delta R.T. 0.01 min

Lab File: VF060388.D

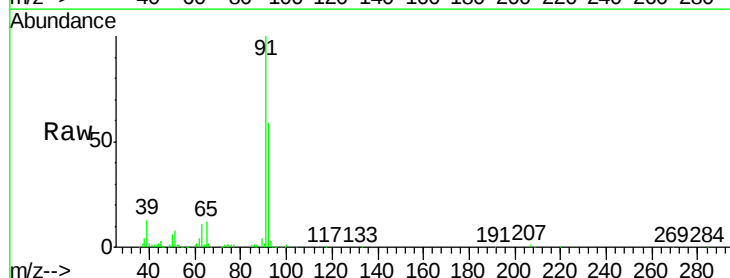
Acq: 1 Oct 2018 17:46

Tgt Ion: 63 Resp: 14256

Ion Ratio Lower Upper

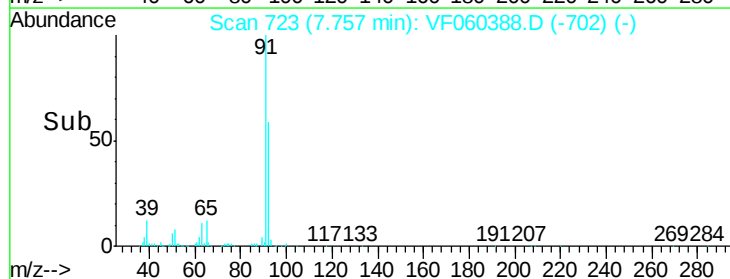
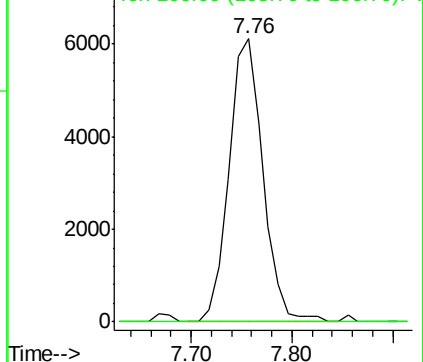
63 100

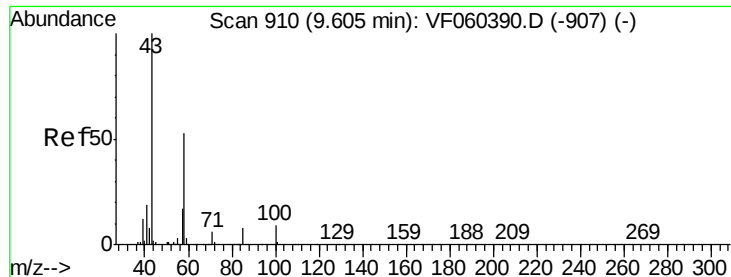
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

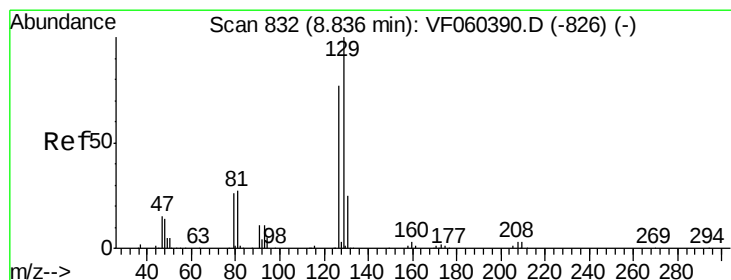
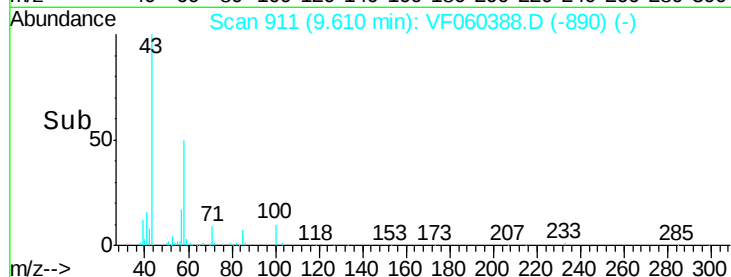
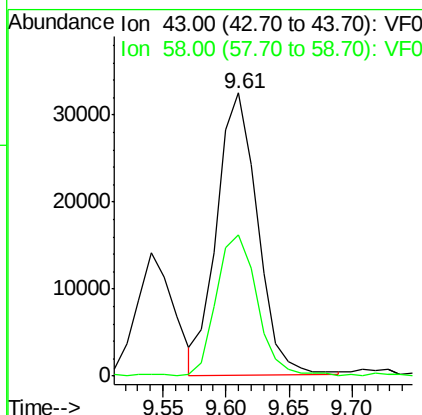
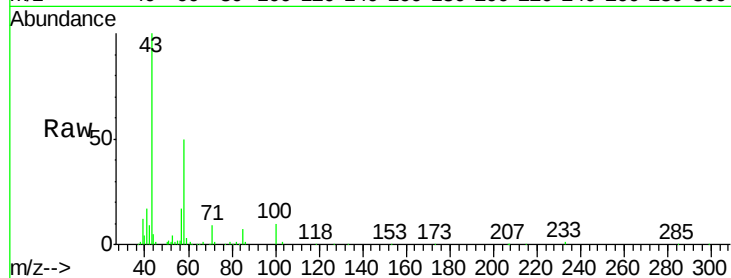




#59  
2-Hexanone  
Concen: 52.261 ug/l  
RT: 9.61 min Scan# 911  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

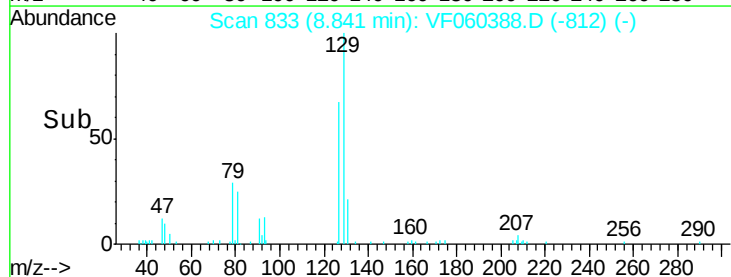
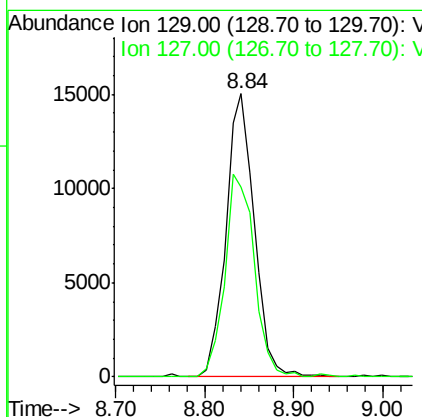
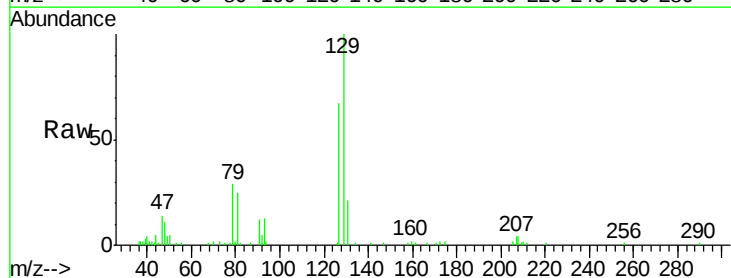
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

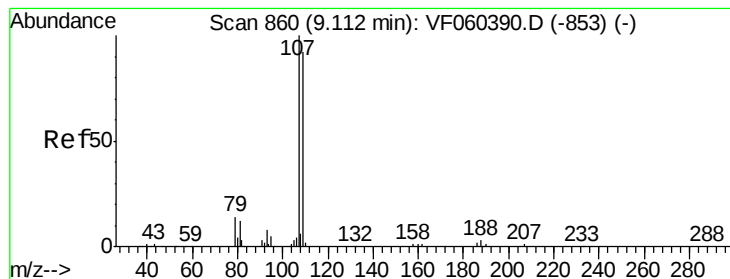
Tgt Ion: 43 Resp: 72511  
Ion Ratio Lower Upper  
43 100  
58 49.9 25.6 76.6



#60  
Dibromochloromethane  
Concen: 10.018 ug/l  
RT: 8.84 min Scan# 833  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion: 129 Resp: 33752  
Ion Ratio Lower Upper  
129 100  
127 67.2 38.3 114.8





#61

1,2-Dibromoethane

Concen: 9.778 ug/l

RT: 9.12 min Scan# 861

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

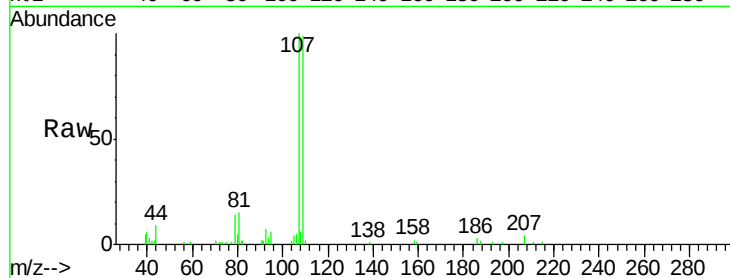
VSTDIC010

Tgt Ion: 107 Resp: 24614

Ion Ratio Lower Upper

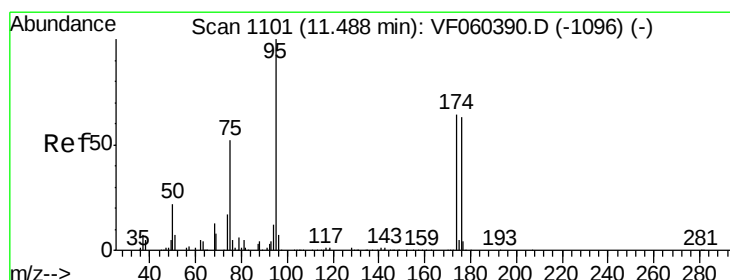
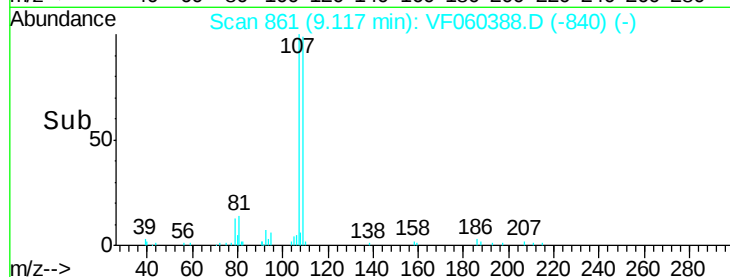
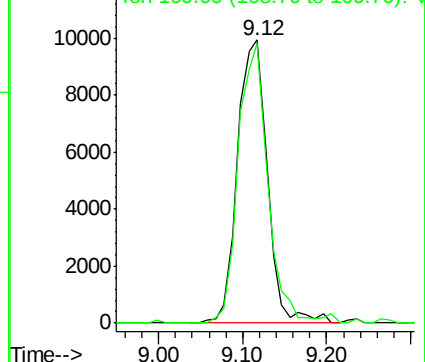
107 100

109 98.7 73.7 110.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 11.562 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

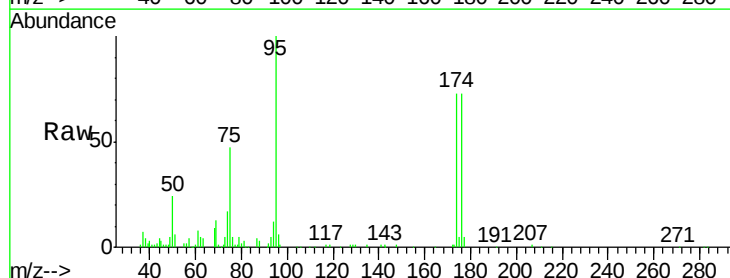
Tgt Ion: 95 Resp: 49087

Ion Ratio Lower Upper

95 100

174 72.8 0.0 129.0

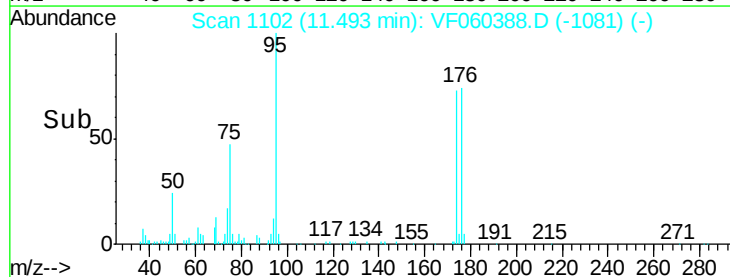
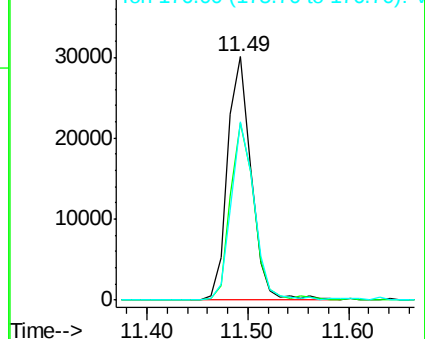
176 73.5 0.0 125.6

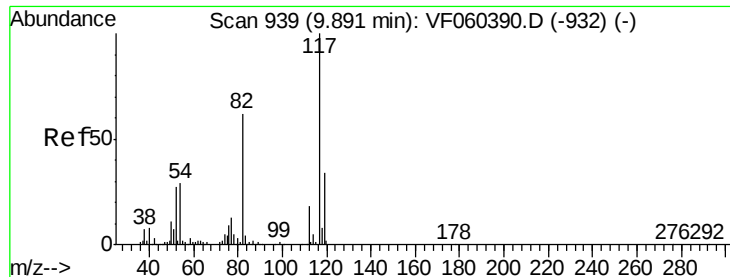


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

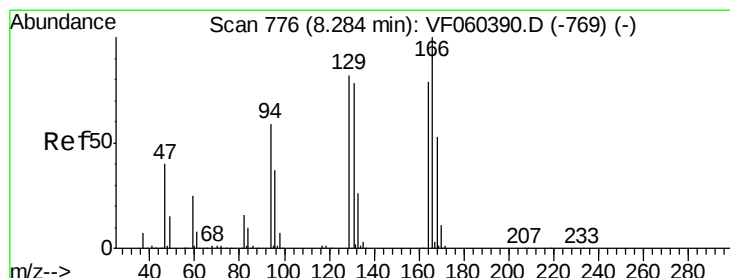
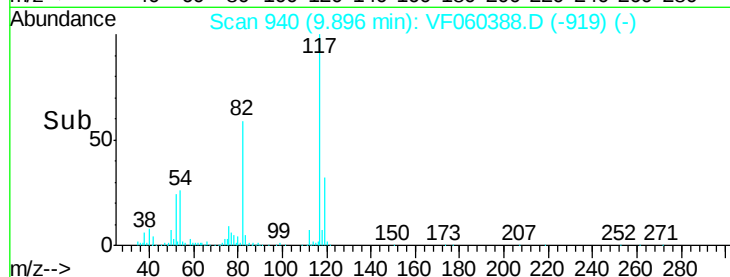
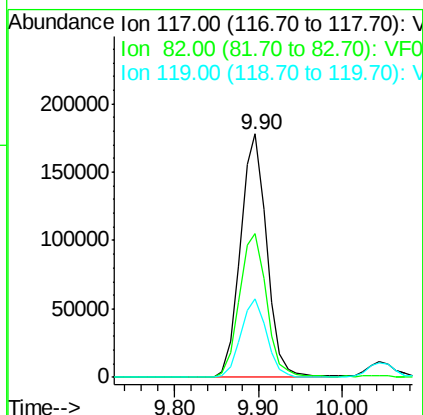
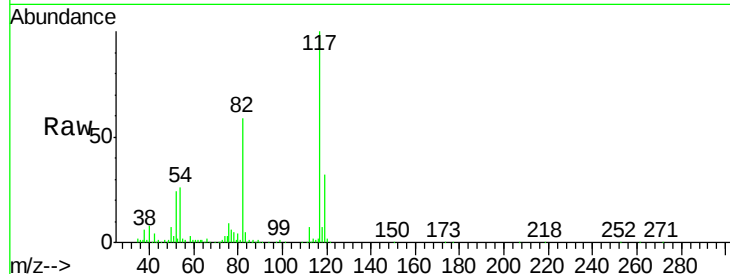




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.90 min Scan# 940  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

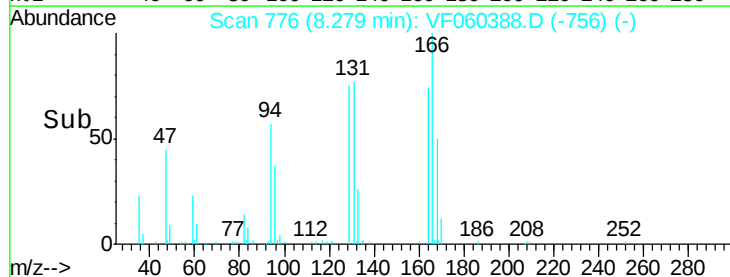
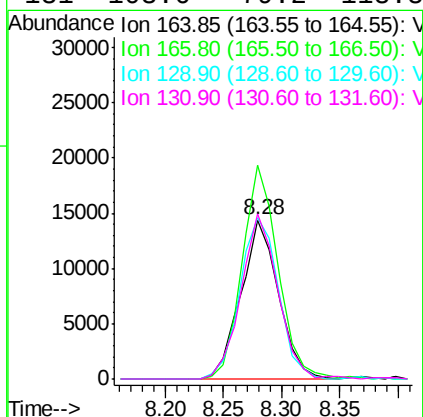
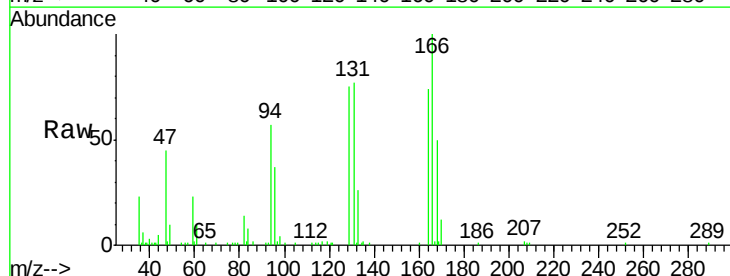
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

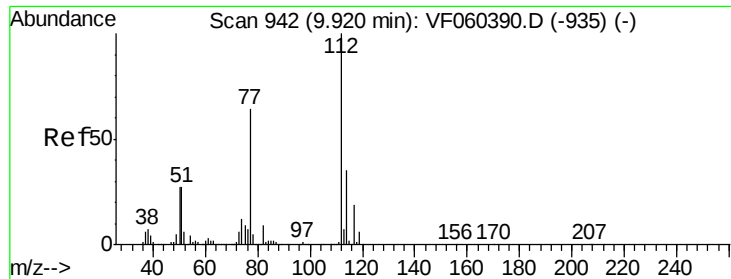
Tgt Ion:117 Resp: 388658  
Ion Ratio Lower Upper  
117 100  
82 59.0 49.5 74.3  
119 32.5 27.0 40.6



#64  
Tetrachloroethene  
Concen: 9.276 ug/l  
RT: 8.28 min Scan# 776  
Delta R.T. -0.00 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion:164 Resp: 32184  
Ion Ratio Lower Upper  
164 100  
166 134.3 101.0 151.6  
129 101.1 82.5 123.7  
131 103.6 79.2 118.8

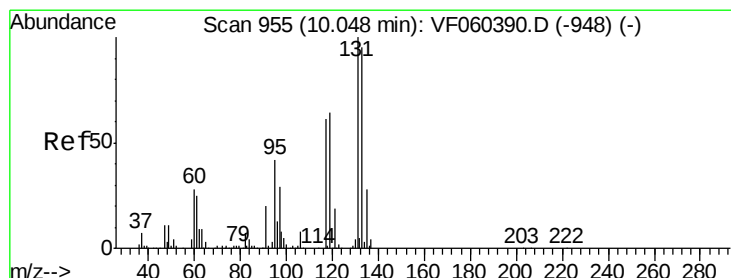
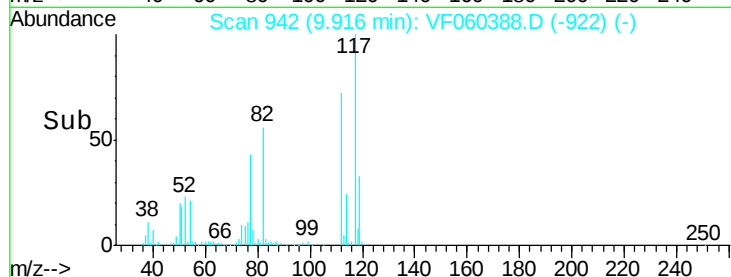
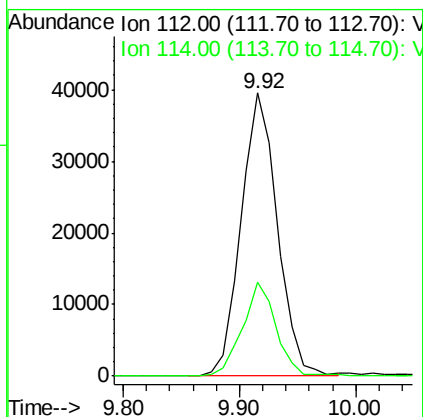
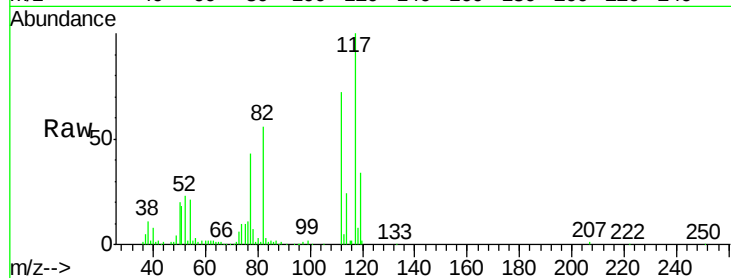




#65  
Chlorobenzene  
Concen: 9.786 ug/l  
RT: 9.92 min Scan# 942  
Delta R.T. -0.00 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

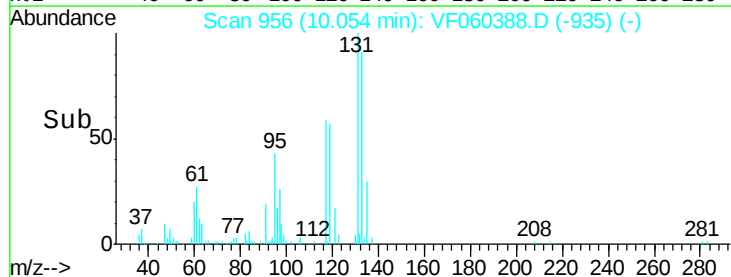
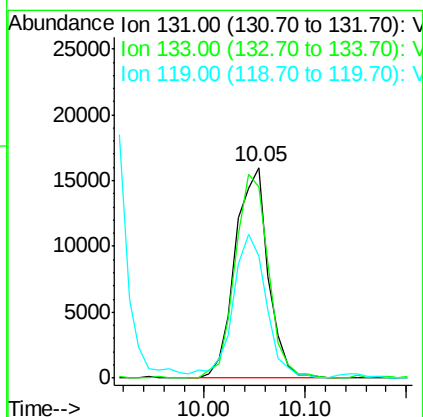
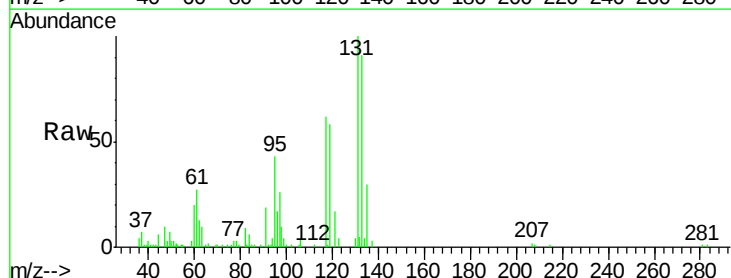
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

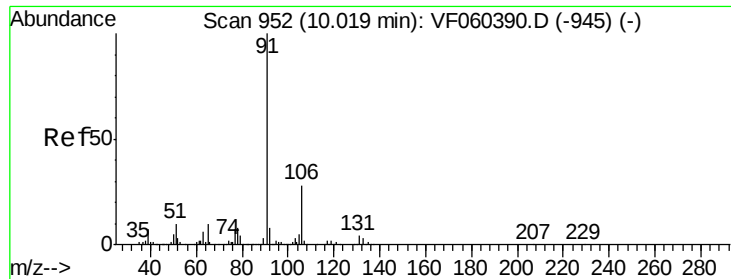
Tgt Ion:112 Resp: 85239  
Ion Ratio Lower Upper  
112 100  
114 33.3 27.7 41.5



#66  
1,1,1,2-Tetrachloroethane  
Concen: 9.927 ug/l  
RT: 10.05 min Scan# 956  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion:131 Resp: 36412  
Ion Ratio Lower Upper  
131 100  
133 90.8 47.3 141.8  
119 58.1 32.3 96.9





#67

Ethyl Benzene

Concen: 10.197 ug/l

RT: 10.01 min Scan# 952

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

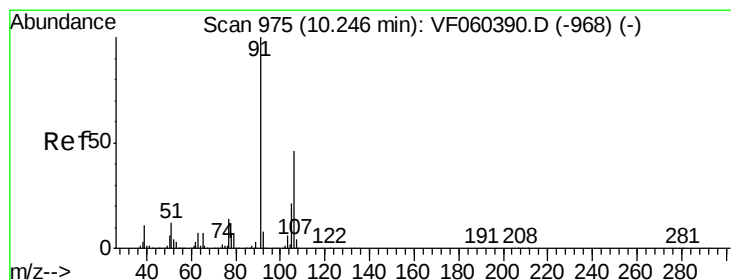
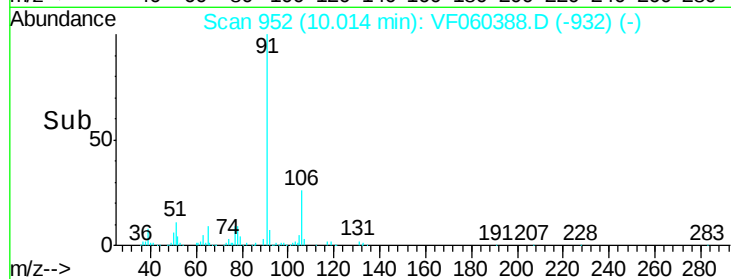
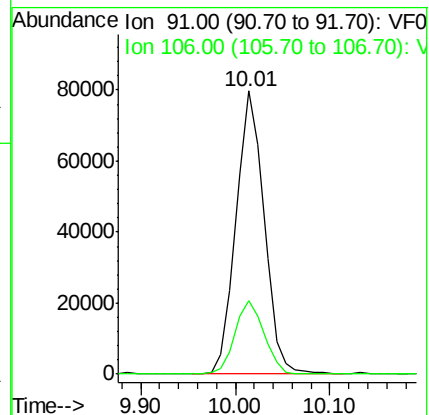
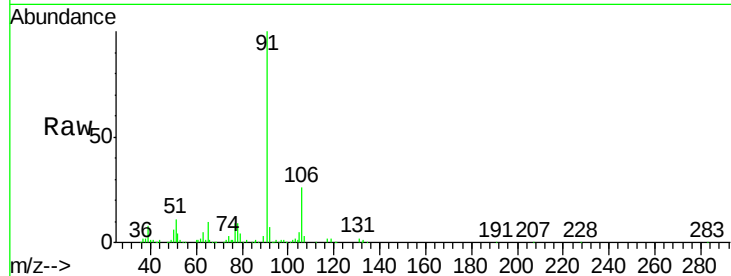
VSTDIC010

Tgt Ion: 91 Resp: 164957

Ion Ratio Lower Upper

91 100

106 25.8 22.5 33.7



#68

m/p-Xylenes

Concen: 21.195 ug/l

RT: 10.24 min Scan# 975

Delta R.T. -0.00 min

Lab File: VF060388.D

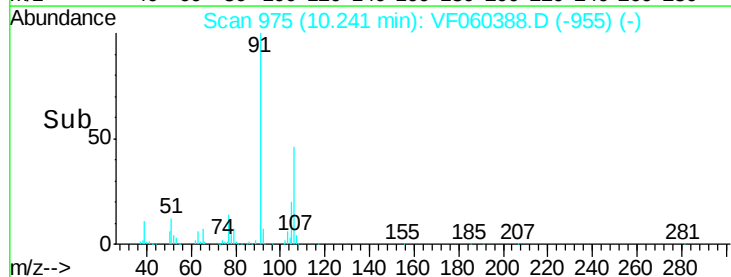
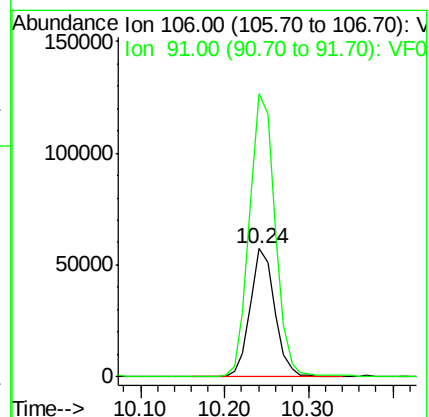
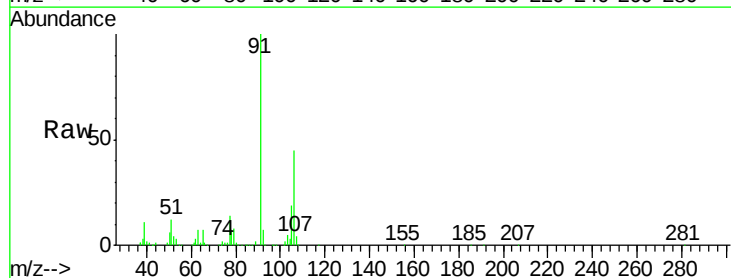
Acq: 1 Oct 2018 17:46

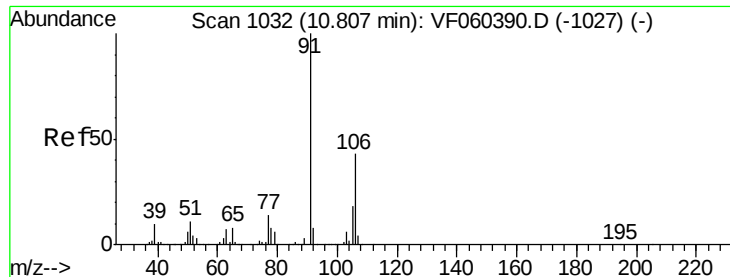
Tgt Ion: 106 Resp: 118355

Ion Ratio Lower Upper

106 100

91 220.8 175.0 262.6

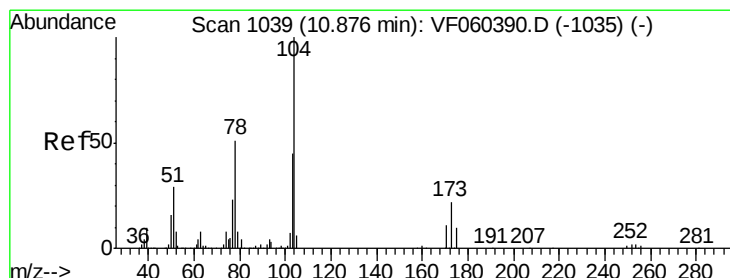
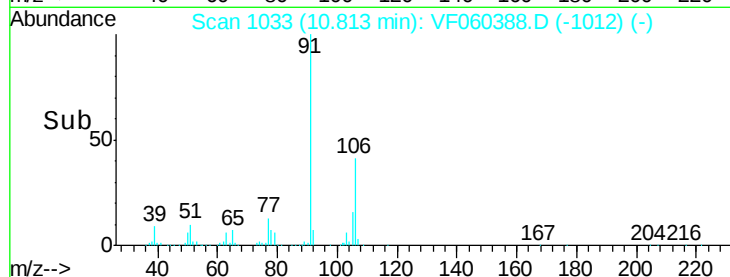
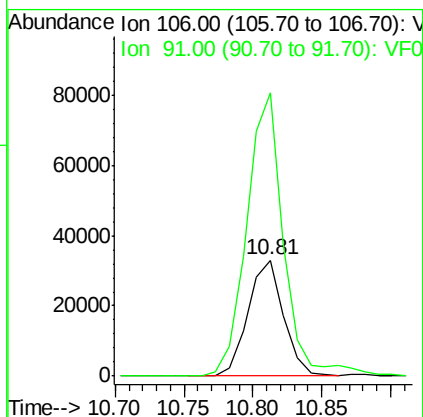
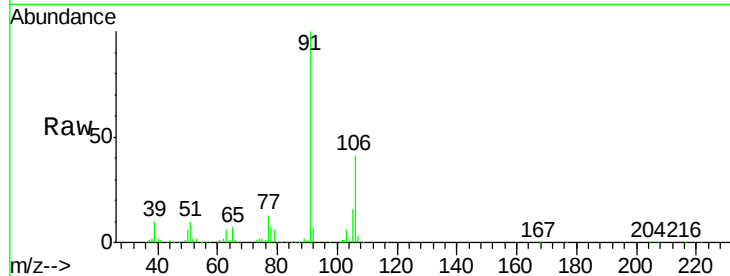




#69  
o-Xylene  
Concen: 9.522 ug/l  
RT: 10.81 min Scan# 1033  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

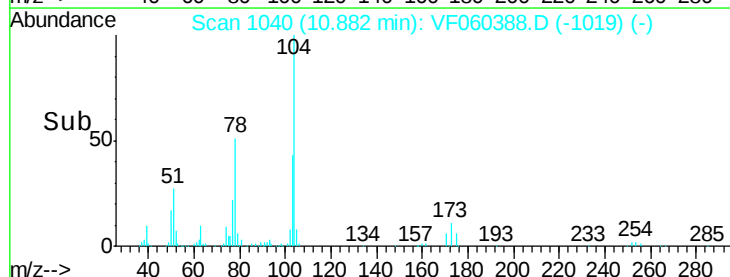
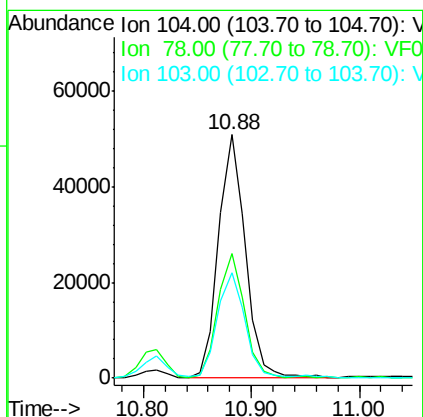
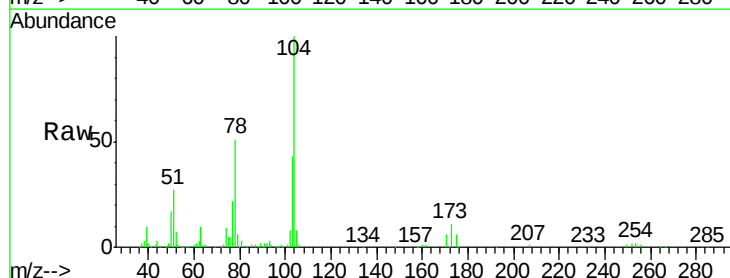
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

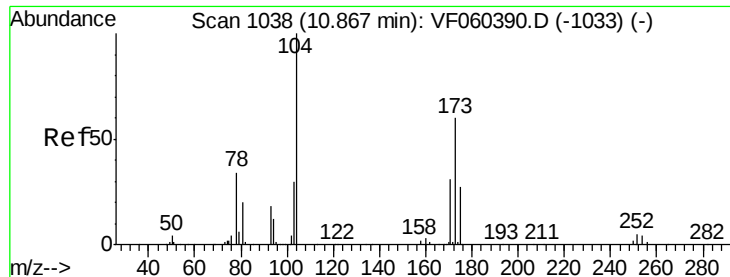
Tgt Ion:106 Resp: 59510  
Ion Ratio Lower Upper  
106 100  
91 243.6 115.1 345.2



#70  
Styrene  
Concen: 10.066 ug/l  
RT: 10.88 min Scan# 1040  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion:104 Resp: 88476  
Ion Ratio Lower Upper  
104 100  
78 51.0 41.0 61.4  
103 43.1 36.4 54.6





#71

Bromoform

Concen: 8.771 ug/l

RT: 10.87 min Scan# 1039

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

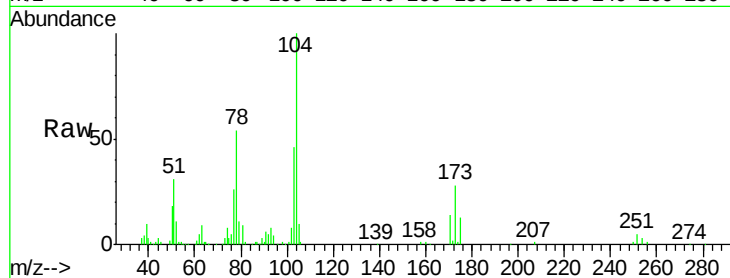
Tgt Ion:173 Resp: 17544

Ion Ratio Lower Upper

173 100

175 46.7 22.1 66.1

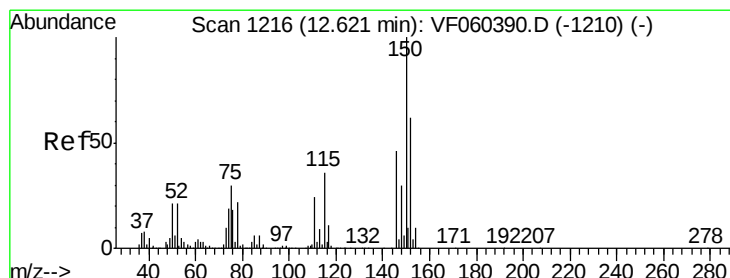
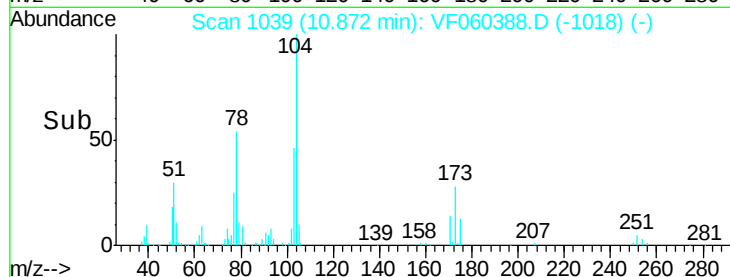
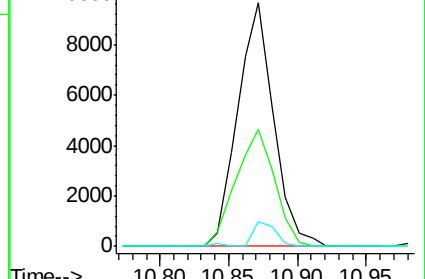
254 9.9 0.0 0.0#



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: 50.000 ug/l

RT: 12.62 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

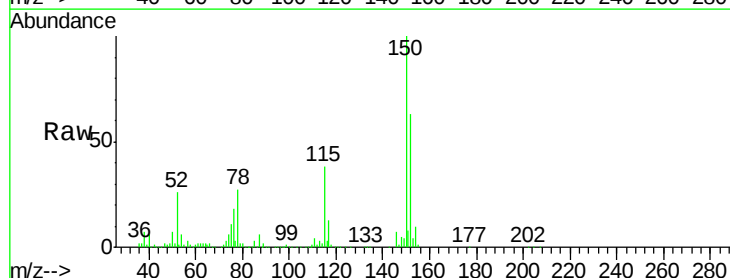
Tgt Ion:152 Resp: 211737

Ion Ratio Lower Upper

152 100

115 60.8 28.6 85.8

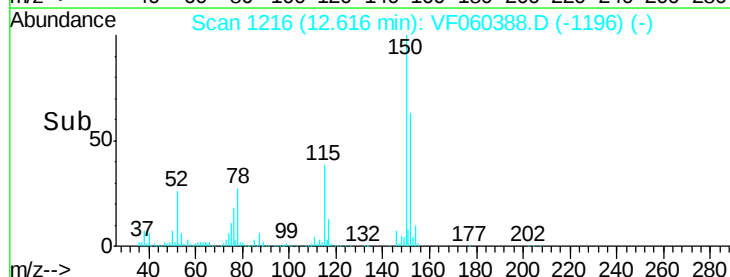
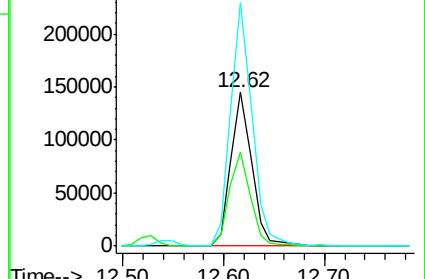
150 158.3 0.0 324.6

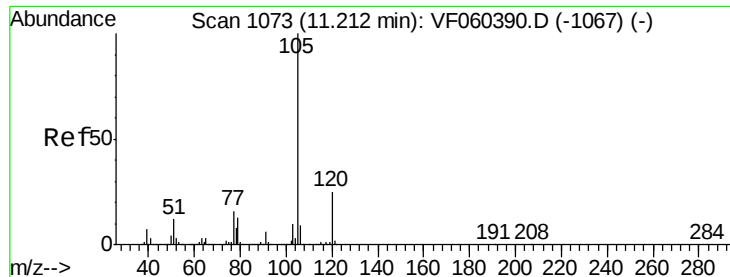


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 9.899 ug/l

RT: 11.21 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

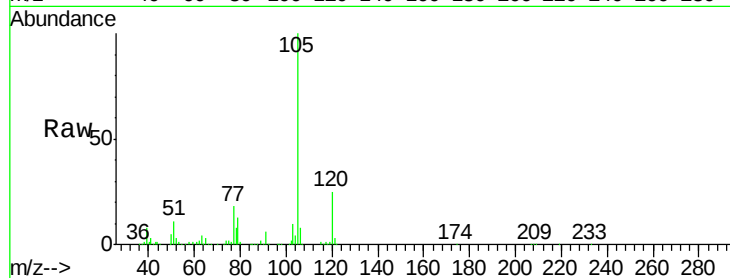
VSTDIC010

Tgt Ion: 105 Resp: 185046

Ion Ratio Lower Upper

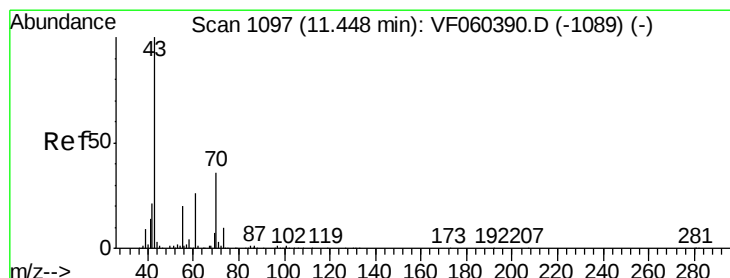
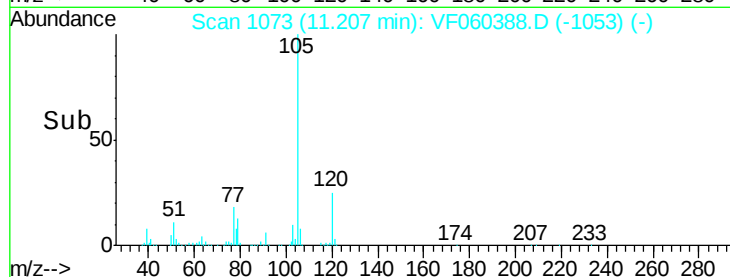
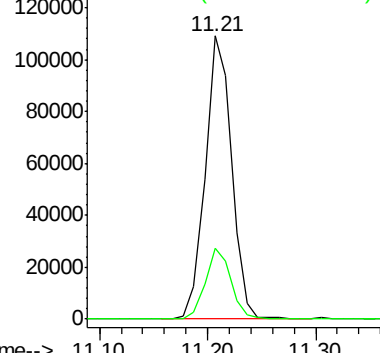
105 100

120 24.9 12.3 36.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 9.701 ug/l

RT: 11.44 min Scan# 1097

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Tgt Ion: 43 Resp: 39286

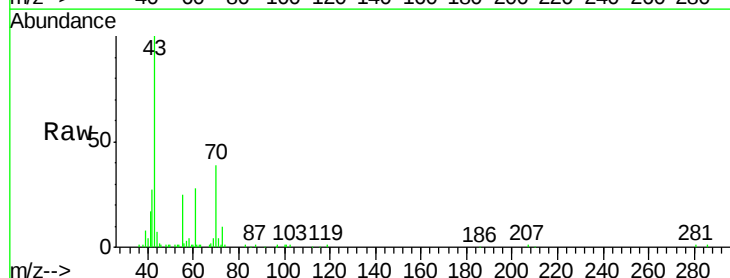
Ion Ratio Lower Upper

43 100

70 39.3 29.1 43.7

55 24.6 16.3 24.5#

61 28.3 21.0 31.4

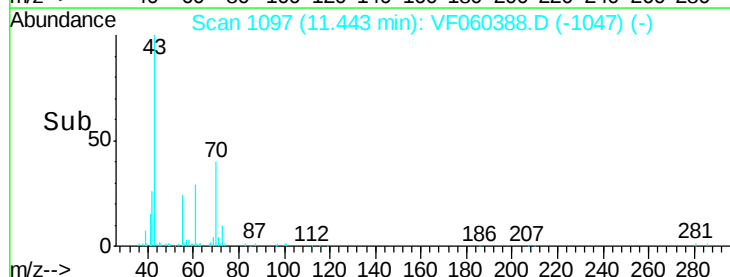
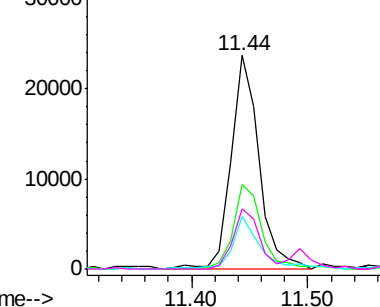


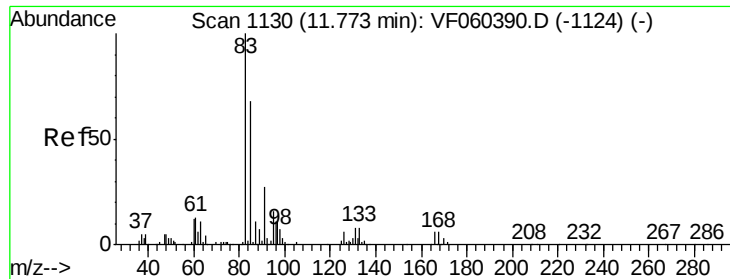
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 9.596 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

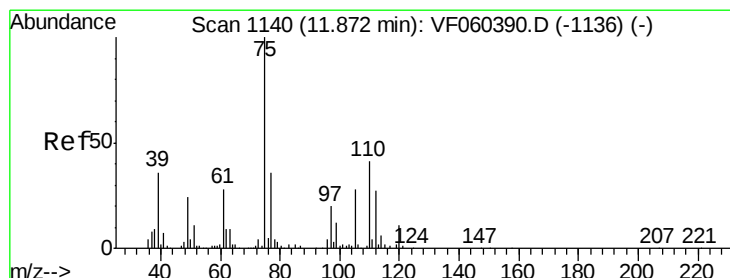
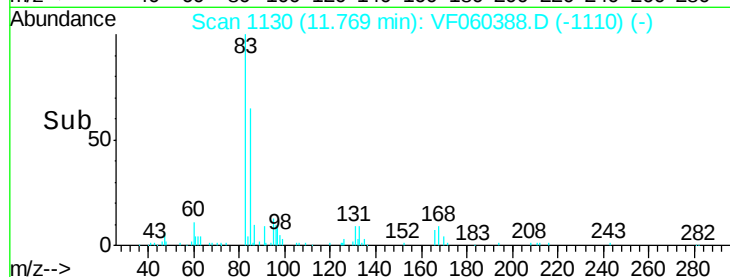
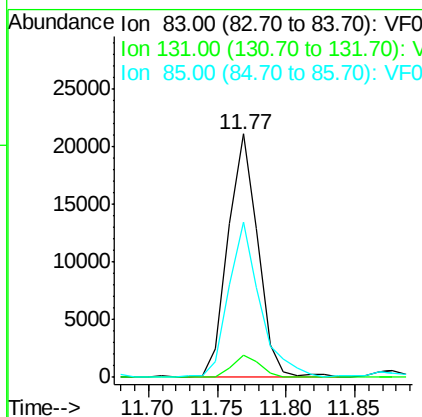
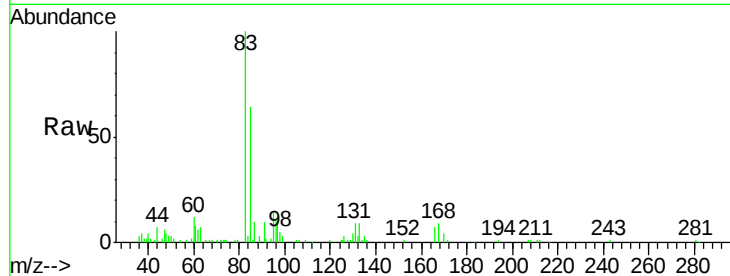
Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 31840 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 131      | 9.3   | 4.0   | 12.0  |
| 85       | 64.0  | 34.0  | 102.0 |



#76

1,2,3-Trichloropropane

Concen: 9.996 ug/l

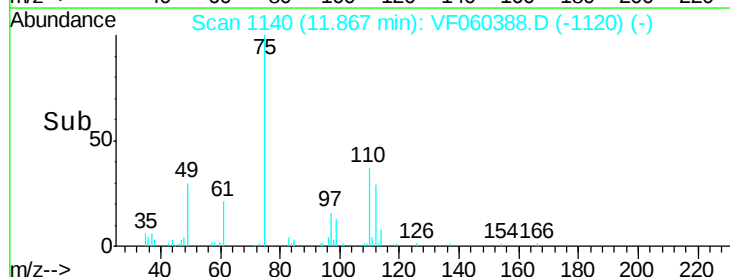
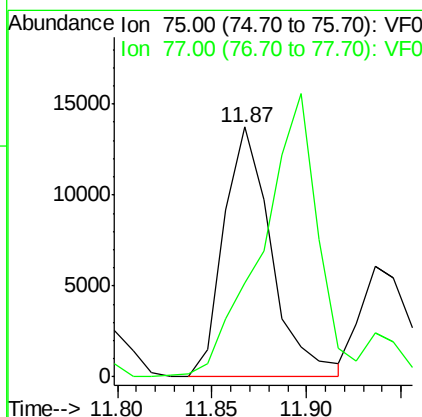
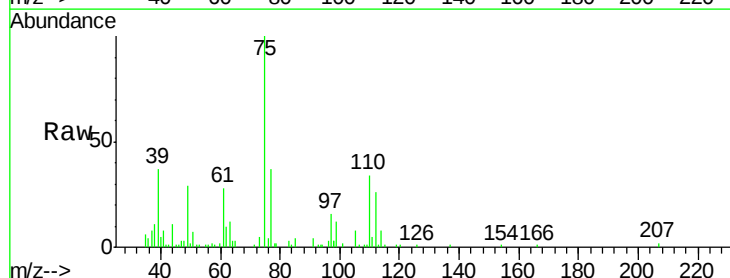
RT: 11.87 min Scan# 1140

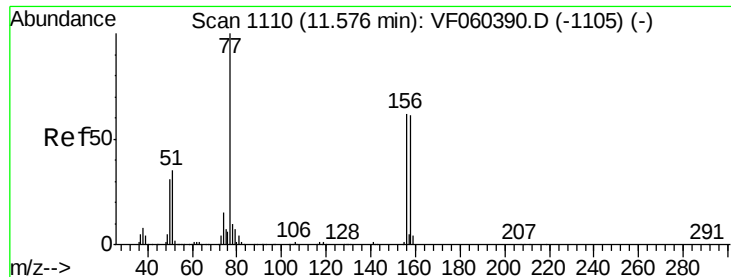
Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 23997 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 37.5  | 18.1  | 54.4  |





#77

Bromobenzene

Concen: 10.266 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

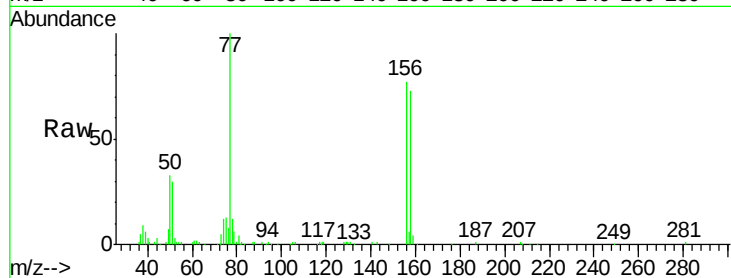
Tgt Ion:156 Resp: 41459

Ion Ratio Lower Upper

156 100

77 129.8 81.3 243.9

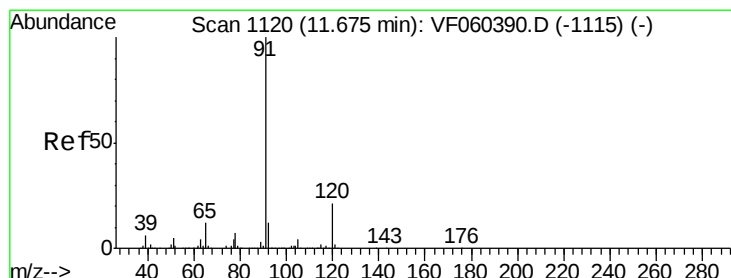
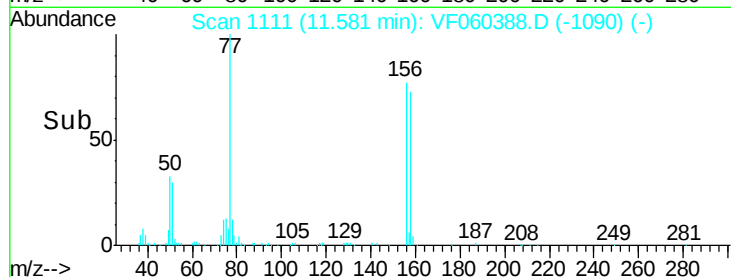
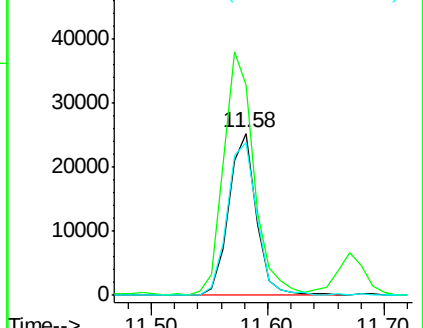
158 94.4 49.6 149.0



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: 10.365 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF060388.D

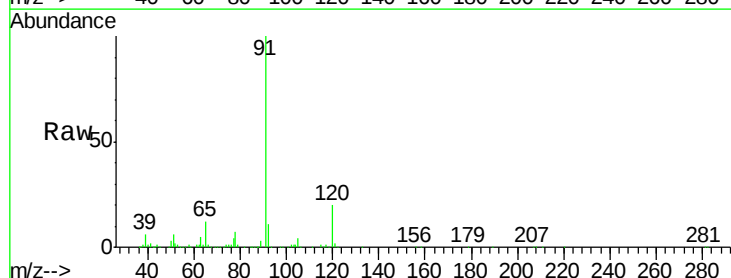
Acq: 1 Oct 2018 17:46

Tgt Ion: 91 Resp: 230085

Ion Ratio Lower Upper

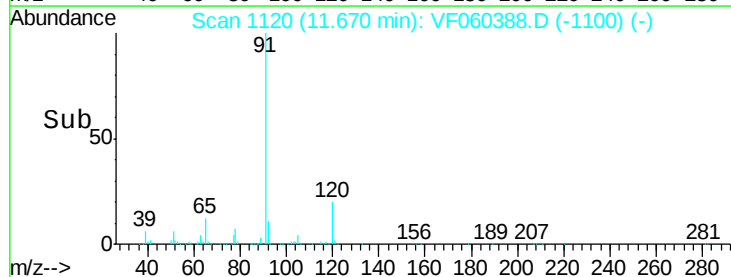
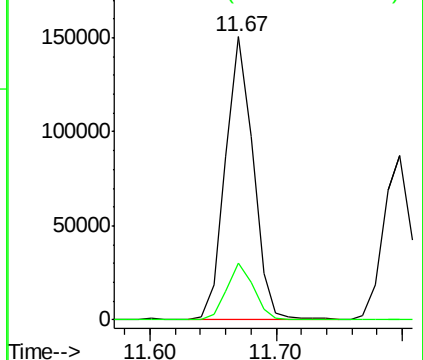
91 100

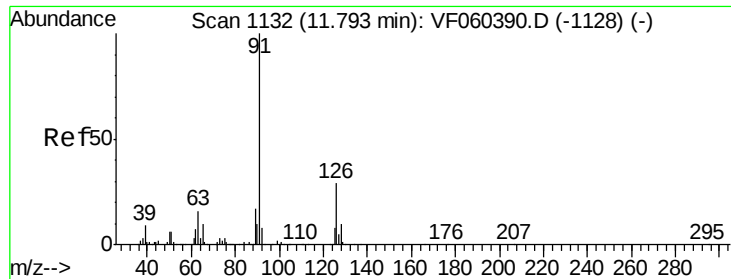
120 20.2 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

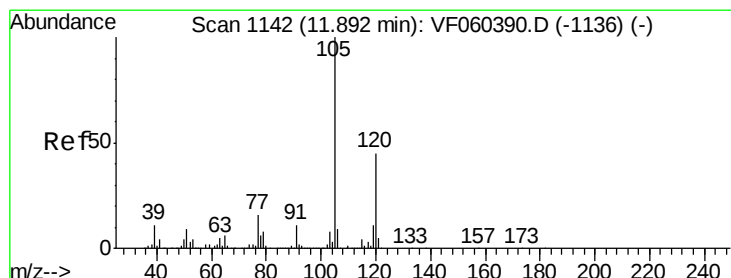
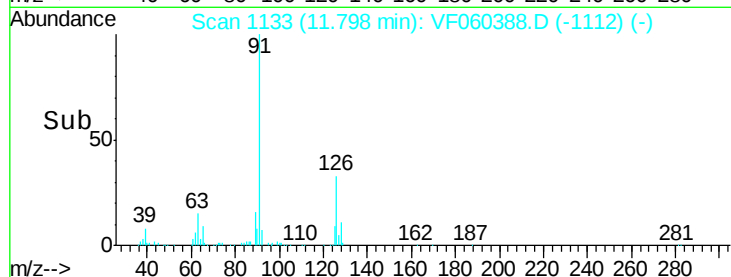
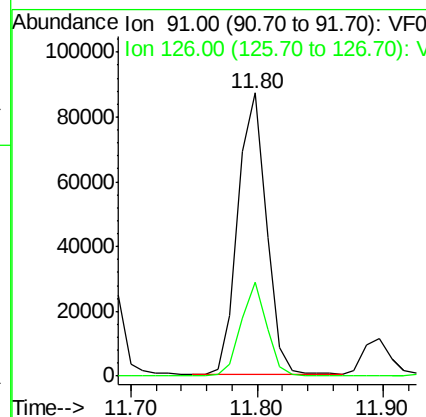
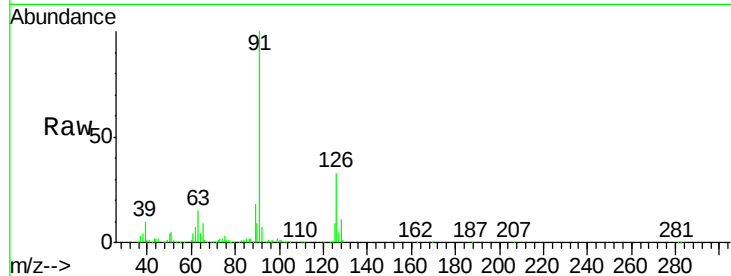




#79  
 2-Chlorotoluene  
 Concen: 10.569 ug/l  
 RT: 11.80 min Scan# 1133  
 Delta R.T. 0.01 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

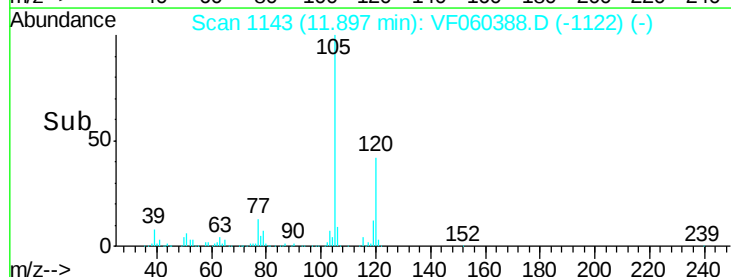
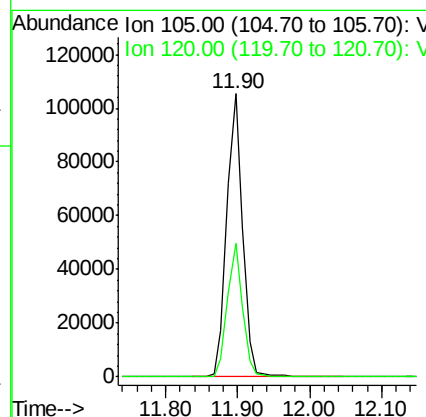
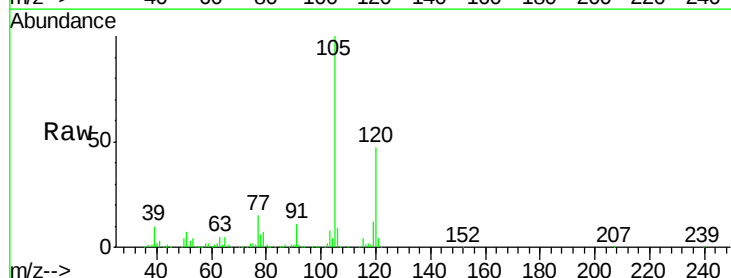
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

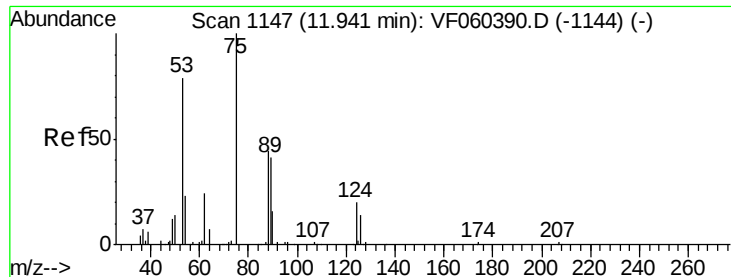
Tgt Ion: 91 Resp: 135300  
 Ion Ratio Lower Upper  
 91 100  
 126 33.0 14.4 43.4



#80  
 1,3,5-Trimethylbenzene  
 Concen: 10.575 ug/l  
 RT: 11.90 min Scan# 1143  
 Delta R.T. 0.01 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

Tgt Ion: 105 Resp: 159883  
 Ion Ratio Lower Upper  
 105 100  
 120 47.2 22.3 66.9





#81

trans-1,4-Dichloro-2-butene

Concen: 12.044 ug/l

RT: 11.94 min Scan# 1147

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

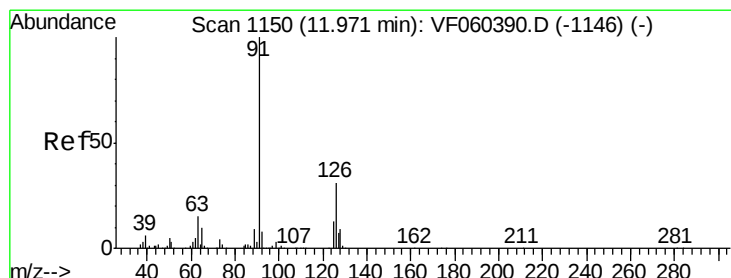
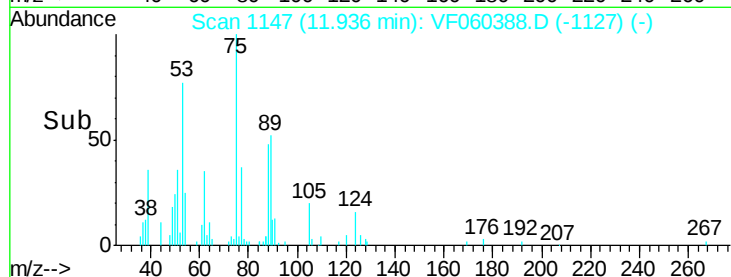
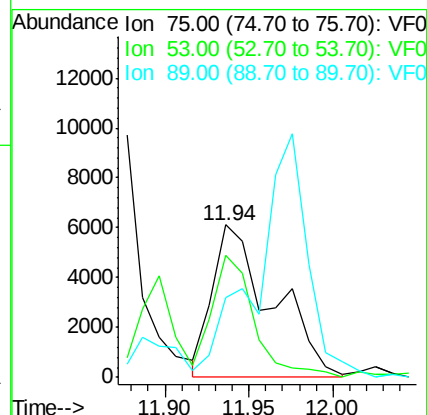
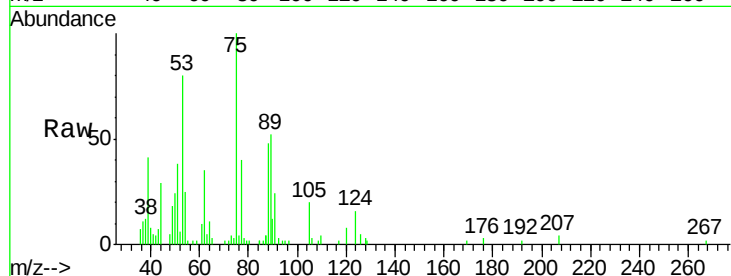
Tgt Ion: 75 Resp: 15087

Ion Ratio Lower Upper

75 100

53 80.5 67.8 101.8

89 52.2 36.7 55.1



#82

4-Chlorotoluene

Concen: 10.566 ug/l

RT: 11.98 min Scan# 1151

Delta R.T. 0.01 min

Lab File: VF060388.D

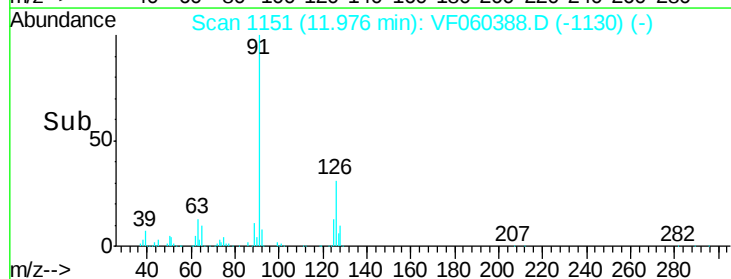
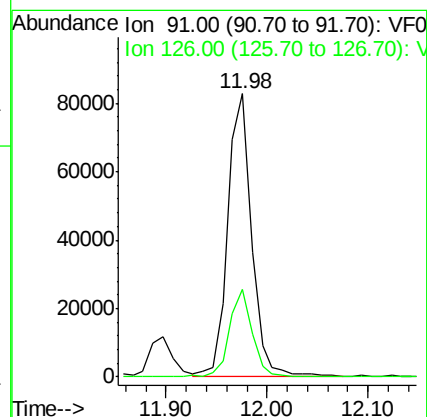
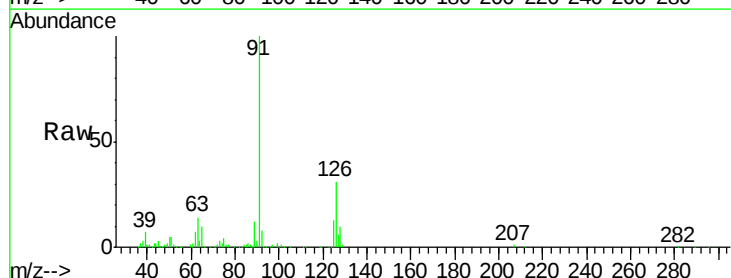
Acq: 1 Oct 2018 17:46

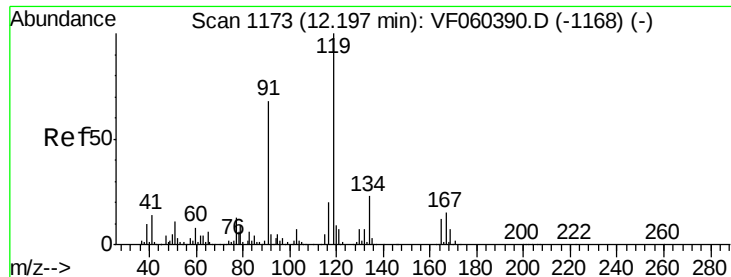
Tgt Ion: 91 Resp: 135307

Ion Ratio Lower Upper

91 100

126 31.1 15.7 47.0

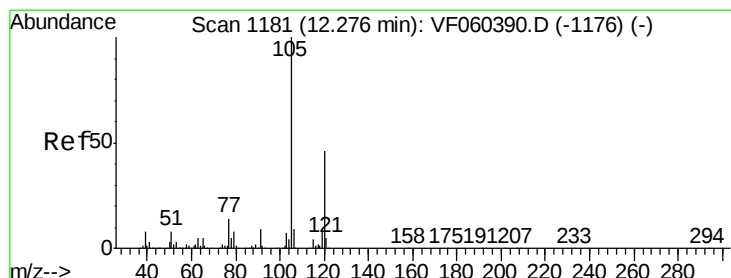
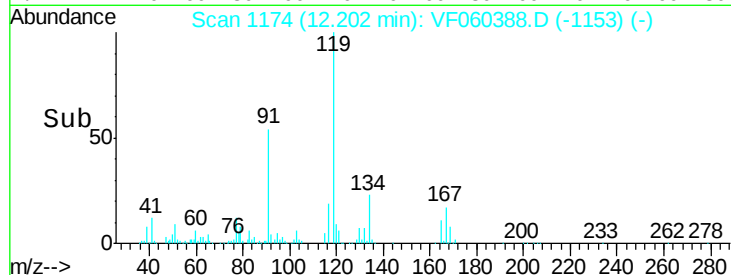
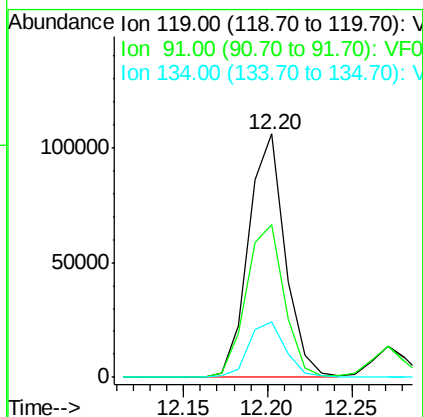
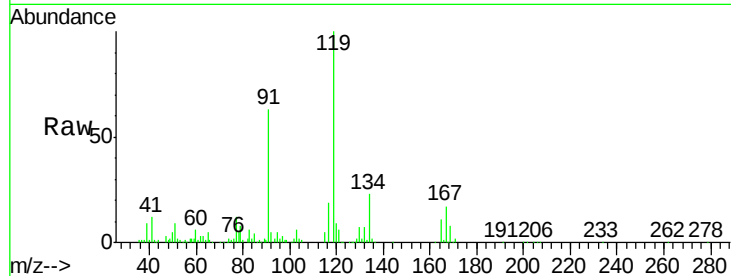




#83  
tert-Butylbenzene  
Concen: 10.399 ug/l  
RT: 12.20 min Scan# 1174  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

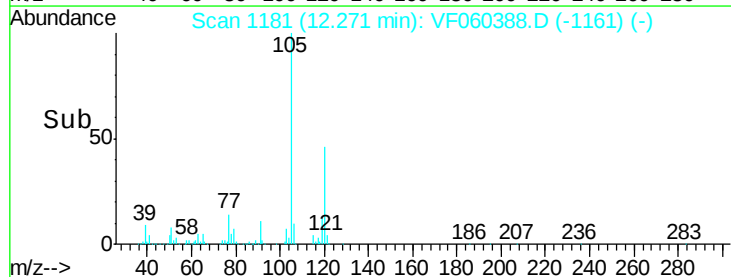
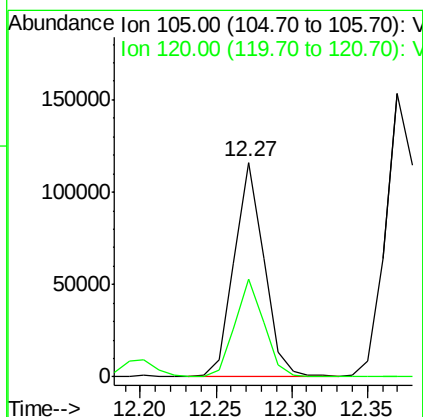
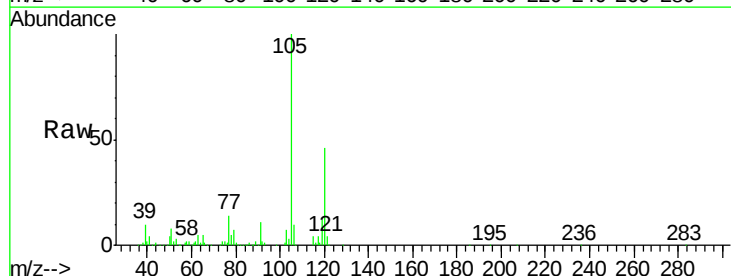
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

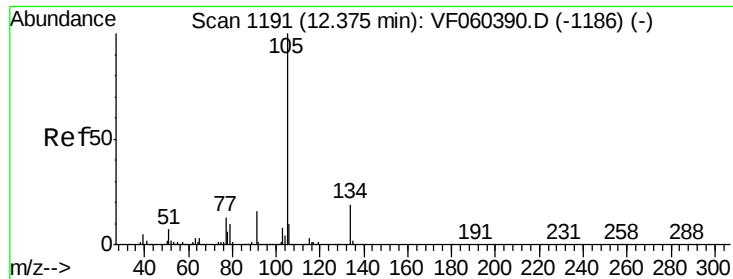
Tgt Ion:119 Resp: 159833  
Ion Ratio Lower Upper  
119 100  
91 62.7 34.0 102.0  
134 22.7 11.7 35.0



#84  
1,2,4-Trimethylbenzene  
Concen: 10.364 ug/l  
RT: 12.27 min Scan# 1181  
Delta R.T. -0.00 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion:105 Resp: 159992  
Ion Ratio Lower Upper  
105 100  
120 45.9 23.1 69.2

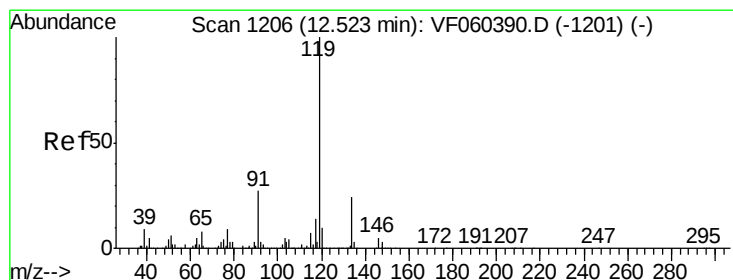
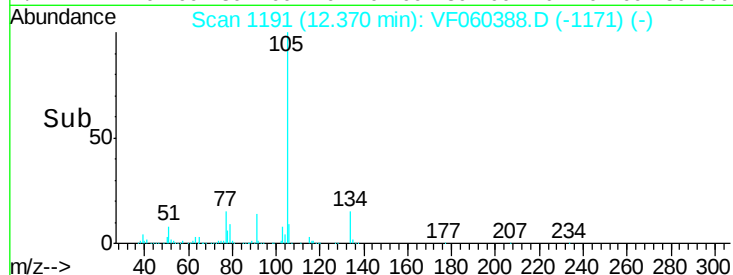
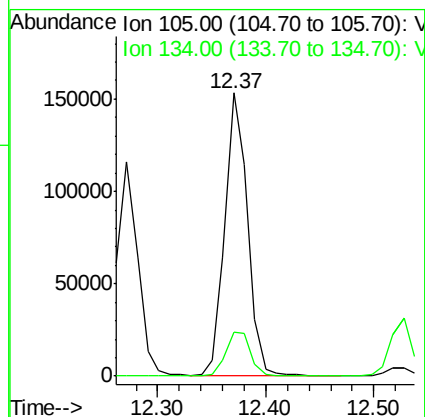
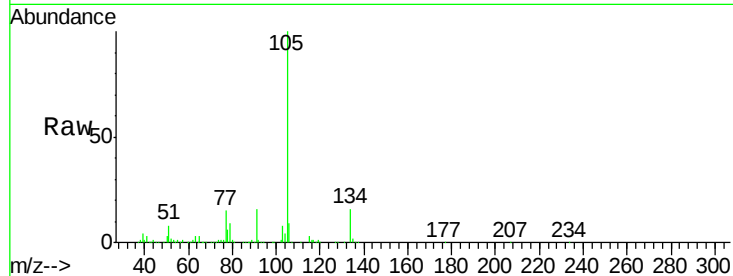




#85  
 sec-Butylbenzene  
 Concen: 10.557 ug/l  
 RT: 12.37 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

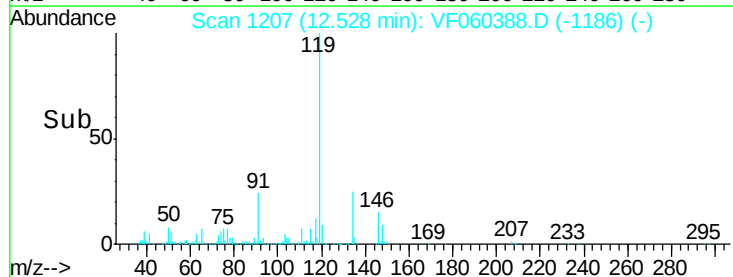
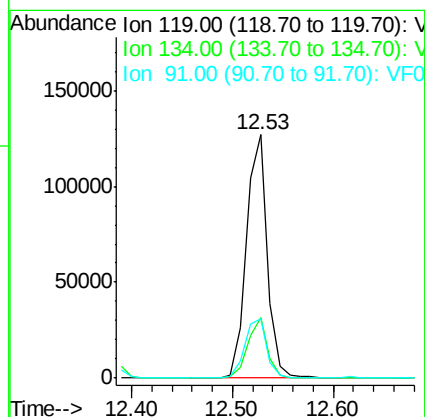
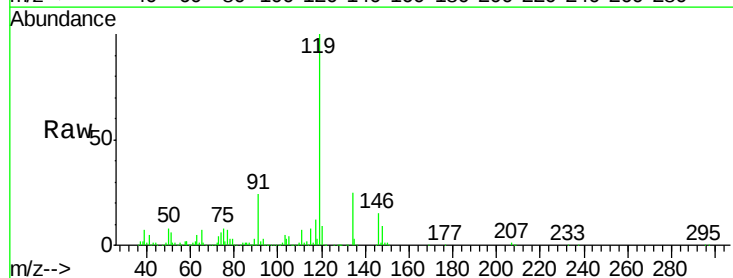
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

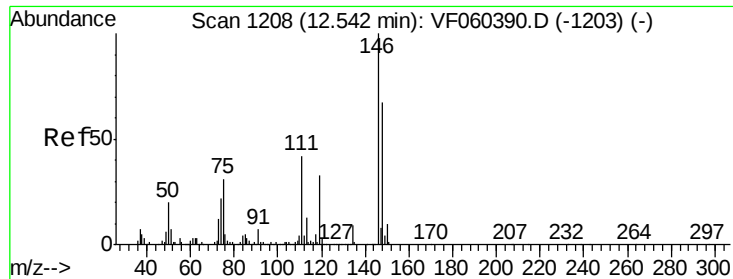
Tgt Ion:105 Resp: 223440  
 Ion Ratio Lower Upper  
 105 100  
 134 15.8 9.4 28.3



#86  
 p-Isopropyltoluene  
 Concen: 10.817 ug/l  
 RT: 12.53 min Scan# 1207  
 Delta R.T. 0.01 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

Tgt Ion:119 Resp: 182215  
 Ion Ratio Lower Upper  
 119 100  
 134 24.9 12.3 36.8  
 91 24.2 13.5 40.4

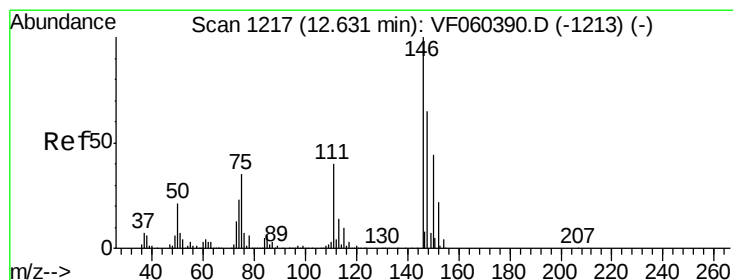
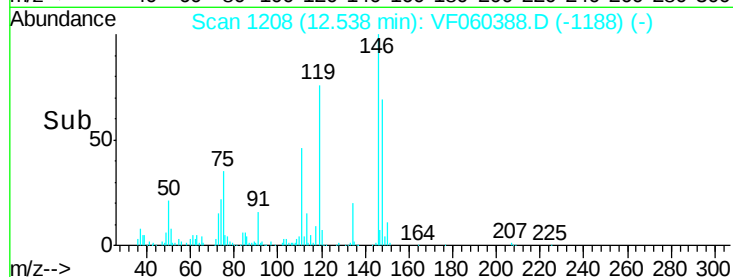
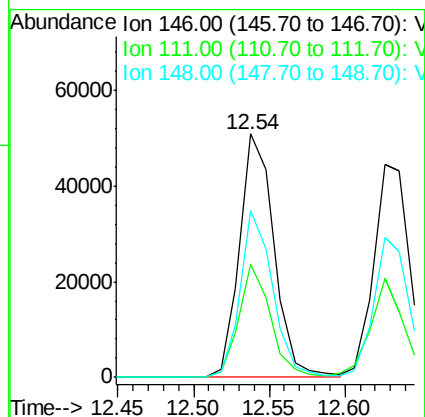
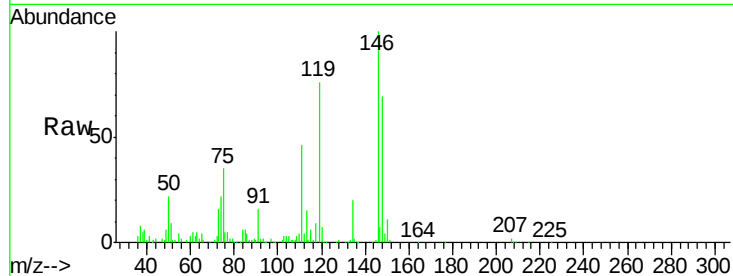




#87  
 1,3-Dichlorobenzene  
 Concen: 10.645 ug/l  
 RT: 12.54 min Scan# 1208  
 Delta R.T. -0.00 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

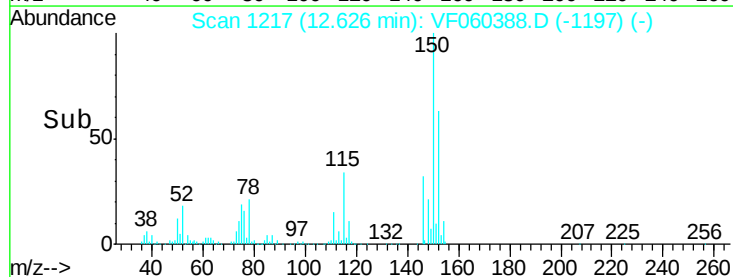
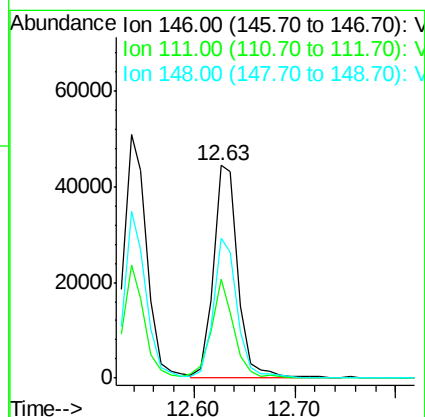
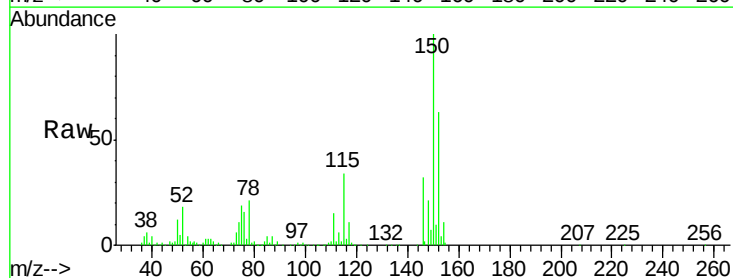
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

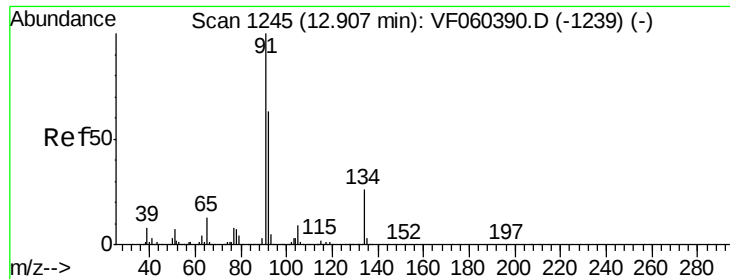
Tgt Ion:146 Resp: 80714  
 Ion Ratio Lower Upper  
 146 100  
 111 46.2 20.9 62.7  
 148 68.8 33.6 100.8



#88  
 1,4-Dichlorobenzene  
 Concen: 10.214 ug/l  
 RT: 12.63 min Scan# 1217  
 Delta R.T. -0.00 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

Tgt Ion:146 Resp: 76231  
 Ion Ratio Lower Upper  
 146 100  
 111 46.7 20.2 60.6  
 148 66.2 32.6 97.8





#89

n-Butylbenzene

Concen: 10.793 ug/l

RT: 12.90 min Scan# 1245

Delta R.T. -0.00 min

Lab File: VF060388.D

Acq: 1 Oct 2018 17:46

Instrument :

MSVOA\_F

ClientSampleId :

VSTDIC010

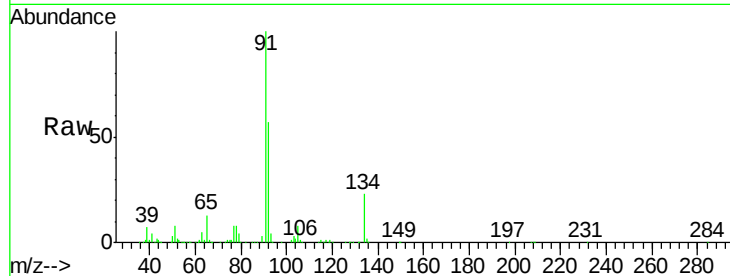
Tgt Ion: 91 Resp: 193634

Ion Ratio Lower Upper

91 100

92 56.8 31.3 93.9

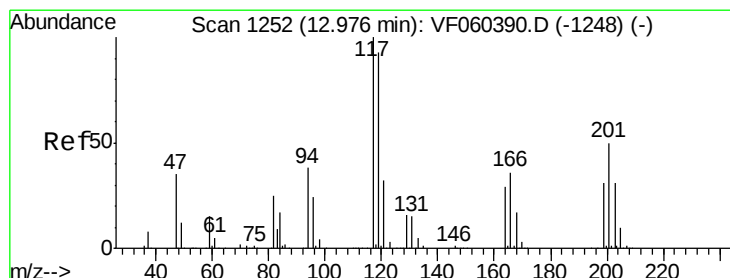
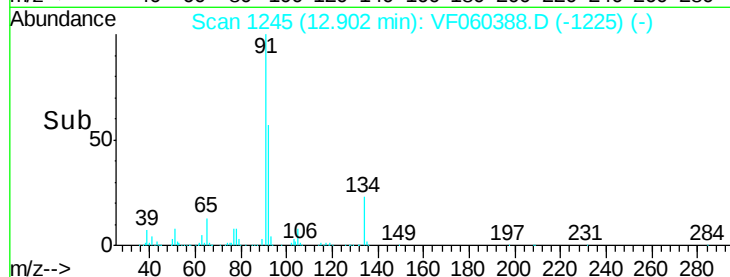
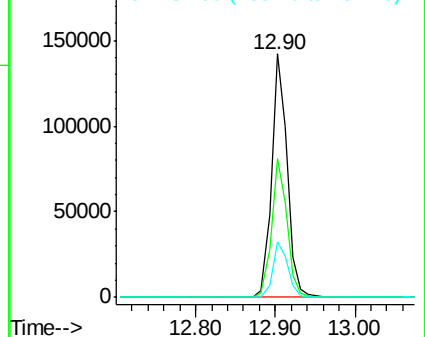
134 22.7 13.0 38.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 9.973 ug/l

RT: 12.98 min Scan# 1253

Delta R.T. 0.01 min

Lab File: VF060388.D

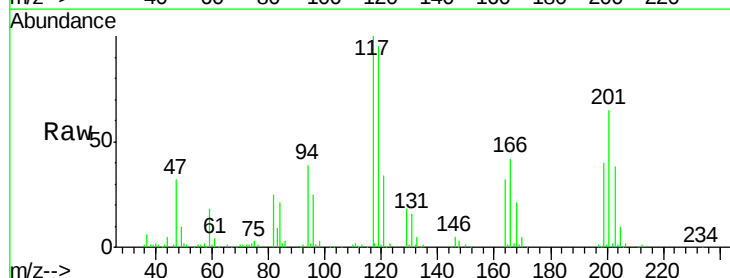
Acq: 1 Oct 2018 17:46

Tgt Ion: 117 Resp: 43142

Ion Ratio Lower Upper

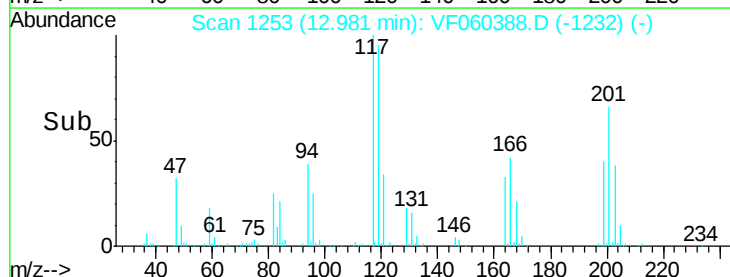
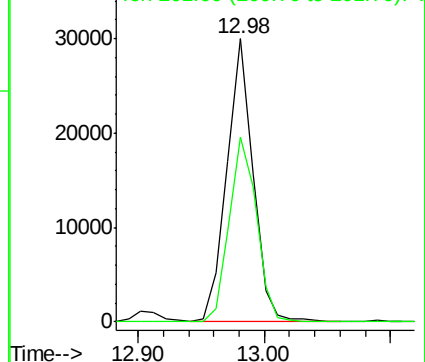
117 100

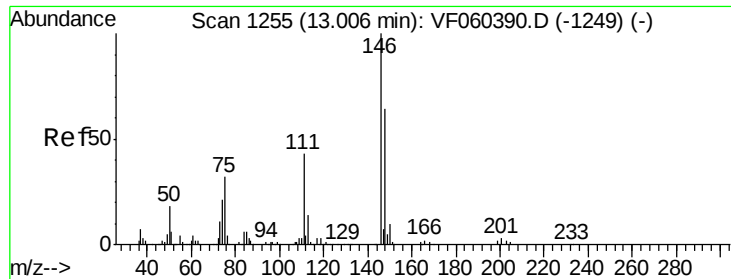
201 65.5 25.5 76.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

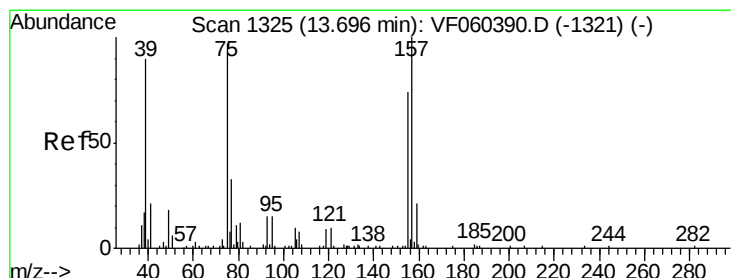
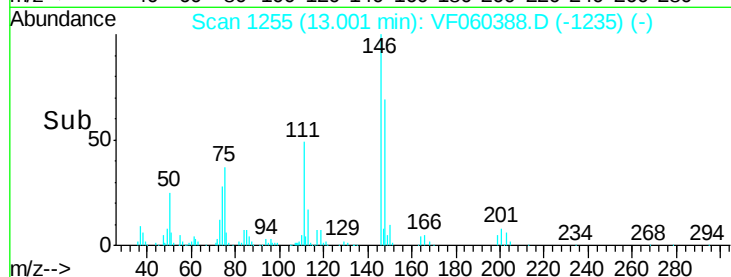
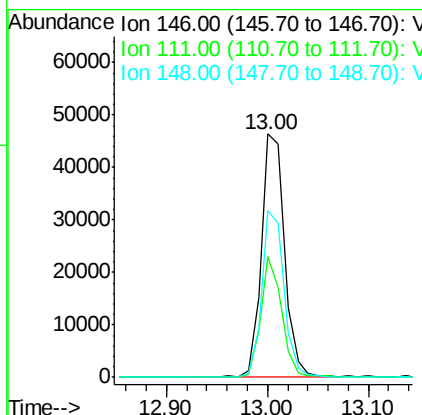
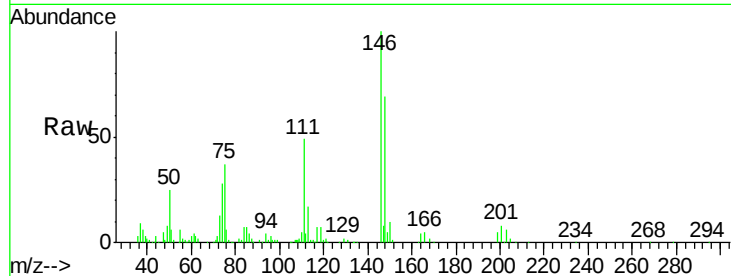




#91  
 1,2-Dichlorobenzene  
 Concen: 10.235 ug/l  
 RT: 13.00 min Scan# 1255  
 Delta R.T. -0.00 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

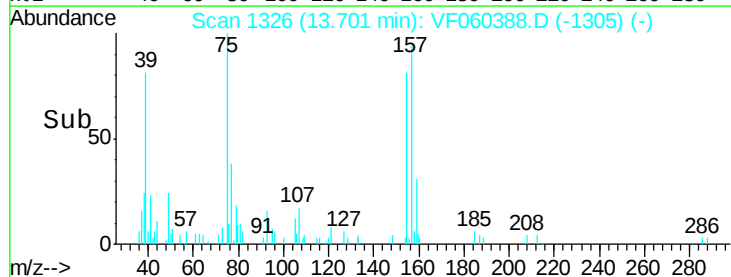
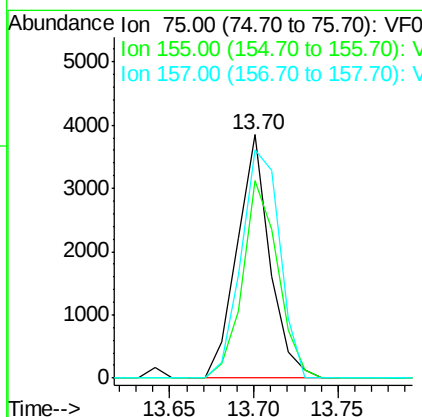
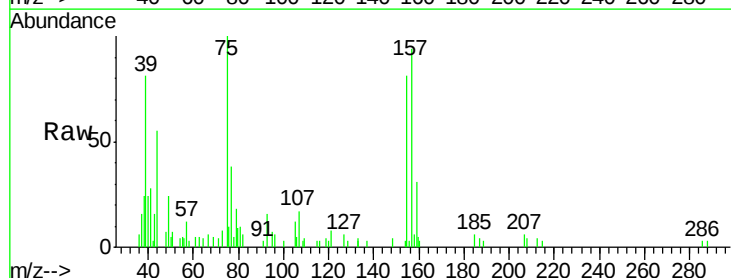
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

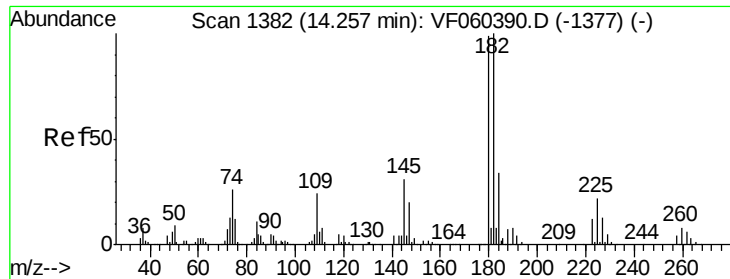
Tgt Ion:146 Resp: 74286  
 Ion Ratio Lower Upper  
 146 100  
 111 49.4 21.3 64.0  
 148 68.7 32.2 96.6



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 8.291 ug/l  
 RT: 13.70 min Scan# 1326  
 Delta R.T. 0.01 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

Tgt Ion: 75 Resp: 5209  
 Ion Ratio Lower Upper  
 75 100  
 155 81.0 37.9 113.6  
 157 99.4 51.3 154.0

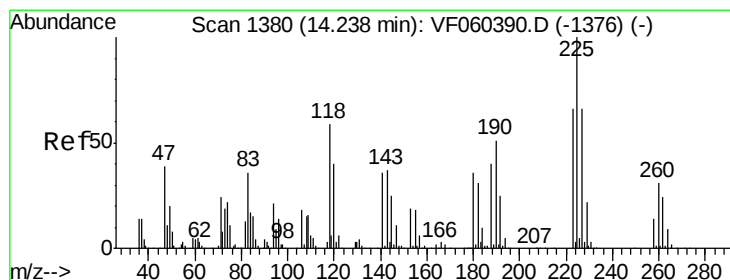
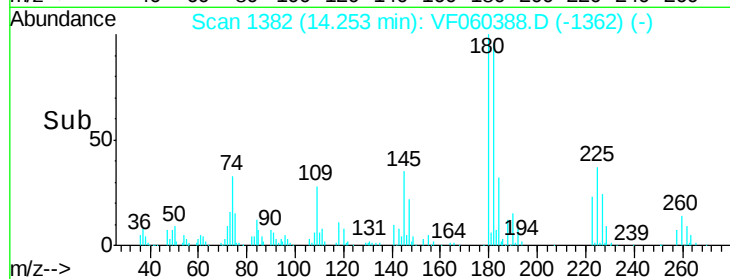
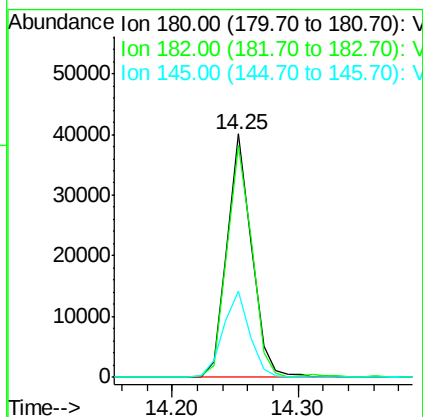
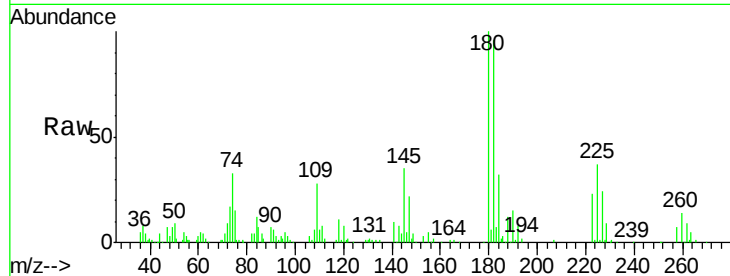




#93  
 1,2,4-Trichlorobenzene  
 Concen: 10.268 ug/l  
 RT: 14.25 min Scan# 1382  
 Delta R.T. -0.00 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

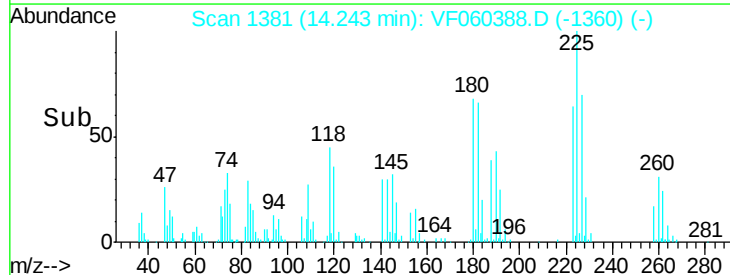
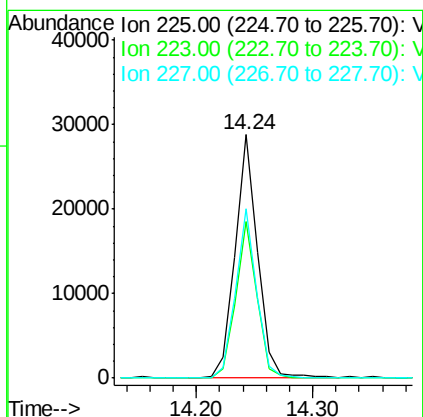
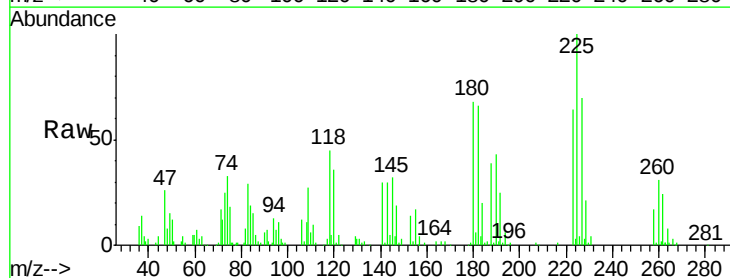
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC010

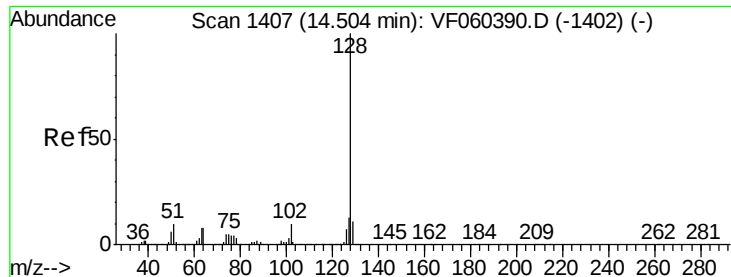
Tgt Ion:180 Resp: 54410  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 50.3 150.9  
 145 35.4 15.5 46.5



#94  
 Hexachlorobutadiene  
 Concen: 10.796 ug/l  
 RT: 14.24 min Scan# 1381  
 Delta R.T. 0.01 min  
 Lab File: VF060388.D  
 Acq: 1 Oct 2018 17:46

Tgt Ion:225 Resp: 38634  
 Ion Ratio Lower Upper  
 225 100  
 223 64.3 32.8 98.4  
 227 69.5 33.0 99.0

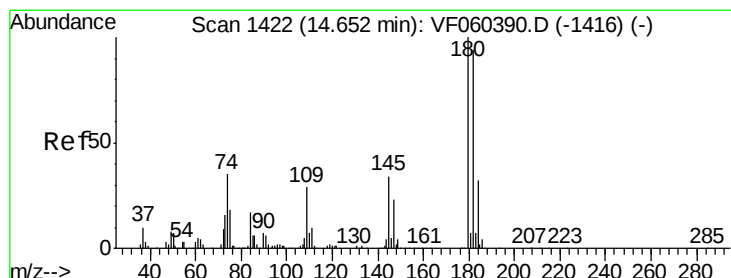
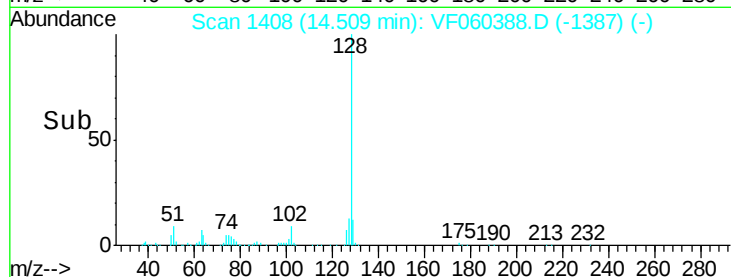
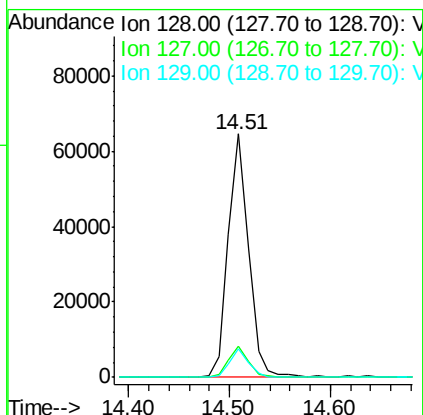
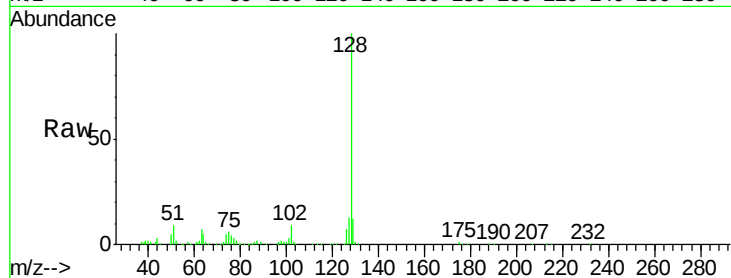




#95  
Naphthalene  
Concen: 9.721 ug/l  
RT: 14.51 min Scan# 1408  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDIC010

Tgt Ion:128 Resp: 90967  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.0 15.0  
129 11.7 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 9.952 ug/l  
RT: 14.66 min Scan# 1423  
Delta R.T. 0.01 min  
Lab File: VF060388.D  
Acq: 1 Oct 2018 17:46

Tgt Ion:180 Resp: 48625  
Ion Ratio Lower Upper  
180 100  
182 90.1 46.8 140.3  
145 29.1 16.9 50.6

