

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052419\  
 Data File : VF062741.D  
 Acq On : 24 May 2019 12:24  
 Operator : FY/SY  
 Sample : VF0524SBS01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0524SBS01

Quant Time: May 24 23:16:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 05:49:09 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.07  | 168  | 278455   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.79  | 114  | 463465   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 328189   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 157278   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.05  | 65   | 83496    | 42.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.86% |          |
| 35) Dibromofluoromethane    | 4.32  | 113  | 159852   | 45.07 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.14% |          |
| 50) Toluene-d8              | 7.72  | 98   | 372871   | 44.04 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.08% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 134198   | 41.79 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.58% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.01 | 85   | 84133    | 22.202  | ug/l   | 99     |
| 3) Chloromethane              | 1.13 | 50   | 75030    | 21.504  | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.18 | 62   | 73418    | 22.859  | ug/l   | 94     |
| 5) Bromomethane               | 1.37 | 94   | 39834    | 22.671  | ug/l   | 83     |
| 6) Chloroethane               | 1.43 | 64   | 31056    | 26.328  | ug/l # | 86     |
| 7) Trichlorofluoromethane     | 1.54 | 101  | 119980   | 27.822  | ug/l   | 91     |
| 8) Diethyl Ether              | 1.72 | 74   | 17705    | 20.724  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.89 | 101  | 68894    | 25.089  | ug/l   | 96     |
| 10) Methyl Iodide             | 1.97 | 142  | 118905   | 22.043  | ug/l   | 96     |
| 11) Tert butyl alcohol        | 2.71 | 59   | 12614    | 97.099  | ug/l # | 79     |
| 12) 1,1-Dichloroethene        | 1.85 | 96   | 59173    | 23.656  | ug/l   | 99     |
| 13) Acrolein                  | 2.10 | 56   | 12327    | 90.903  | ug/l   | 96     |
| 14) Allyl chloride            | 2.21 | 41   | 62415    | 27.569  | ug/l   | 96     |
| 15) Acrylonitrile             | 3.10 | 53   | 34778    | 94.905  | ug/l   | 97     |
| 16) Acetone                   | 2.36 | 43   | 52379m   | 102.606 | ug/l   |        |
| 17) Carbon Disulfide          | 1.89 | 76   | 185431   | 25.010  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.46 | 43   | 18604    | 23.191  | ug/l   | 95     |
| 19) Methyl tert-butyl Ether   | 2.56 | 73   | 86466    | 19.336  | ug/l   | 96     |
| 20) Methylene Chloride        | 2.31 | 84   | 55550    | 21.710  | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene  | 2.43 | 96   | 58293    | 23.842  | ug/l   | 92     |
| 22) Diisopropyl ether         | 2.95 | 45   | 107730   | 19.294  | ug/l   | 98     |
| 23) Vinyl Acetate             | 3.36 | 43   | 306718   | 81.430  | ug/l   | 96     |
| 24) 1,1-Dichloroethane        | 3.03 | 63   | 93081    | 22.724  | ug/l   | 97     |
| 25) 2-Butanone                | 4.53 | 43   | 130188   | 119.368 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 3.79 | 77   | 75058    | 32.025  | ug/l   | 87     |
| 27) cis-1,2-Dichloroethene    | 3.66 | 96   | 87084    | 21.653  | ug/l   | 97     |
| 28) Bromochloromethane        | 3.91 | 49   | 45037    | 19.604  | ug/l   | 87     |
| 29) Tetrahydrofuran           | 4.29 | 42   | 37735    | 85.500  | ug/l   | 96     |
| 30) Chloroform                | 4.06 | 83   | 121582   | 21.378  | ug/l   | 97     |
| 31) Cyclohexane               | 3.90 | 56   | 127285   | 23.143  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 4.31 | 97   | 101902   | 26.980  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 4.49 | 75   | 104436   | 21.991  | ug/l   | 94     |
| 37) Ethyl Acetate             | 4.31 | 43   | 30234    | 15.592  | ug/l # | 35     |
| 38) Carbon Tetrachloride      | 4.20 | 117  | 92940    | 26.021  | ug/l   | 95     |

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 Quant Title : SW846 8260  
 QLast Update : Fri May 17 05:49:09 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.65  | 83   | 138979   | 24.321  | ug/l   | 99       |
| 40) Benzene                    | 4.84  | 78   | 280112   | 21.651  | ug/l   | 100      |
| 41) Methacrylonitrile          | 4.95  | 41   | 18053    | 17.758  | ug/l # | 93       |
| 42) 1,2-Dichloroethane         | 5.15  | 62   | 46751    | 18.121  | ug/l   | 88       |
| 43) Isopropyl Acetate          | 7.13  | 43   | 40731    | 16.214  | ug/l # | 97       |
| 44) Trichloroethene            | 5.70  | 130  | 86025    | 23.658  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 6.42  | 63   | 66266    | 20.290  | ug/l   | 92       |
| 46) Dibromomethane             | 6.27  | 93   | 37376    | 19.802  | ug/l # | 79       |
| 47) Bromodichloromethane       | 6.56  | 83   | 75123    | 19.172  | ug/l # | 98       |
| 48) Methyl methacrylate        | 6.89  | 41   | 20167    | 15.359  | ug/l # | 80       |
| 49) 1,4-Dioxane                | 6.89  | 88   | 6889     | 409.636 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone       | 8.41  | 43   | 137903   | 80.310  | ug/l   | 91       |
| 52) Toluene                    | 7.79  | 92   | 136709   | 20.148  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene      | 8.43  | 75   | 59254    | 18.484  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 7.47  | 75   | 81783    | 18.225  | ug/l # | 92       |
| 55) 1,1,2-Trichloroethane      | 8.64  | 97   | 38438    | 19.133  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.76  | 69   | 36068    | 15.069  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 9.01  | 76   | 62398    | 18.235  | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether  | 7.46  | 63   | 34946    | 44.856  | ug/l   | 95       |
| 59) 2-Hexanone                 | 9.63  | 43   | 95431    | 72.785  | ug/l   | 96       |
| 60) Dibromochloromethane       | 8.87  | 129  | 46946    | 17.929  | ug/l   | 90       |
| 61) 1,2-Dibromoethane          | 9.14  | 107  | 39296    | 18.415  | ug/l   | 96       |
| 64) Tetrachloroethene          | 8.32  | 164  | 61293    | 23.574  | ug/l   | 93       |
| 65) Chlorobenzene              | 9.94  | 112  | 144298   | 22.386  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.07 | 131  | 57151    | 22.086  | ug/l   | 92       |
| 67) Ethyl Benzene              | 10.03 | 91   | 257929   | 23.033  | ug/l   | 93       |
| 68) m/p-Xylenes                | 10.27 | 106  | 186542   | 44.323  | ug/l   | 78       |
| 69) o-Xylene                   | 10.82 | 106  | 91109    | 21.017  | ug/l   | 90       |
| 70) Styrene                    | 10.90 | 104  | 133140   | 20.207  | ug/l   | 97       |
| 71) Bromoform                  | 10.88 | 173  | 25256    | 19.487  | ug/l # | 92       |
| 73) Isopropylbenzene           | 11.22 | 105  | 261033   | 23.157  | ug/l   | 94       |
| 74) N-amyl acetate             | 11.45 | 43   | 49536    | 13.311  | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.77 | 83   | 49395    | 21.442  | ug/l   | 91       |
| 76) 1,2,3-Trichloropropane     | 11.88 | 75   | 30139    | 19.911  | ug/l   | 87       |
| 77) Bromobenzene               | 11.58 | 156  | 58950    | 21.039  | ug/l   | 90       |
| 78) n-propylbenzene            | 11.68 | 91   | 333791   | 25.021  | ug/l   | 93       |
| 79) 2-Chlorotoluene            | 11.80 | 91   | 173885   | 23.128  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene     | 11.90 | 105  | 220679   | 24.415  | ug/l   | 92       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 14618m   | 21.726  | ug/l   |          |
| 82) 4-Chlorotoluene            | 11.98 | 91   | 173050   | 23.341  | ug/l   | 95       |
| 83) tert-Butylbenzene          | 12.20 | 119  | 222407   | 24.253  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.27 | 105  | 212959   | 24.343  | ug/l   | 89       |
| 85) sec-Butylbenzene           | 12.37 | 105  | 307729   | 25.005  | ug/l   | 93       |
| 86) p-Isopropyltoluene         | 12.52 | 119  | 247134   | 23.828  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.54 | 146  | 114232   | 22.534  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 12.63 | 146  | 110334   | 23.193  | ug/l   | 97       |
| 89) n-Butylbenzene             | 12.90 | 91   | 267170   | 26.127  | ug/l   | 91       |
| 90) Hexachloroethane           | 12.98 | 117  | 57862    | 23.257  | ug/l   | 73       |
| 91) 1,2-Dichlorobenzene        | 13.00 | 146  | 98911    | 21.889  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.69 | 75   | 6209     | 22.593  | ug/l   | 66       |

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 Sample : VF0524SBS01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
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 Response via : Initial Calibration

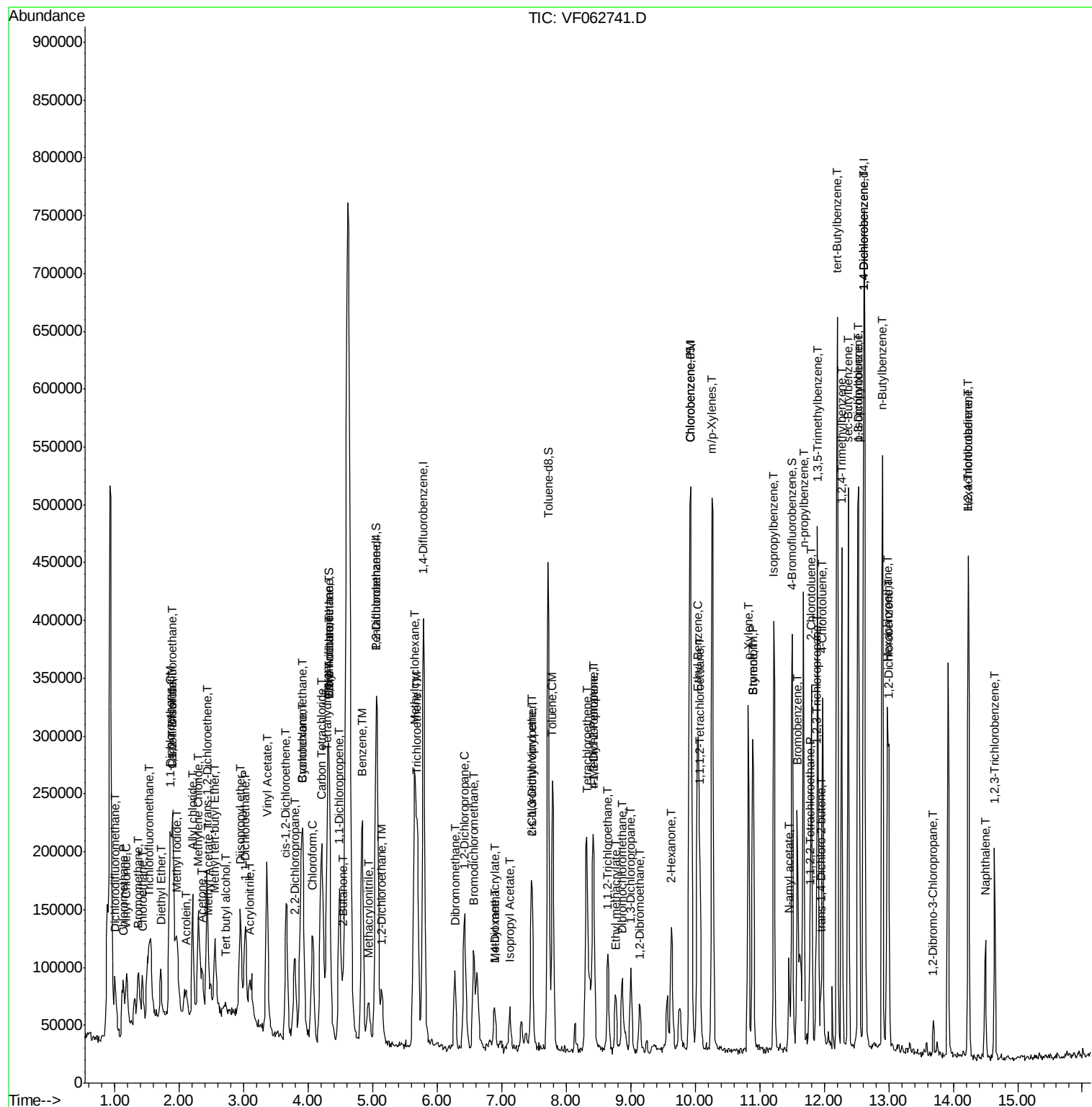
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.24 | 180  | 63571    | 19.654 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 14.23 | 225  | 51930    | 23.006 | ug/l  | 95       |
| 95) Naphthalene            | 14.50 | 128  | 76791    | 13.068 | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene | 14.64 | 180  | 54675    | 17.846 | ug/l  | 98       |

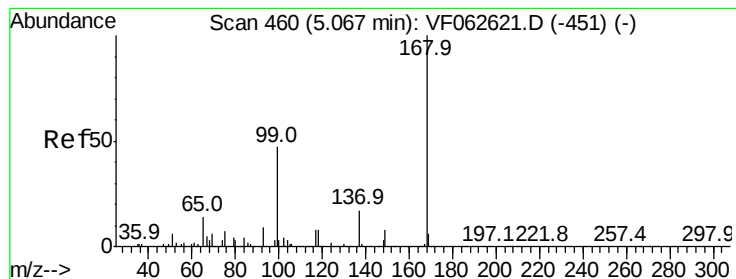
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

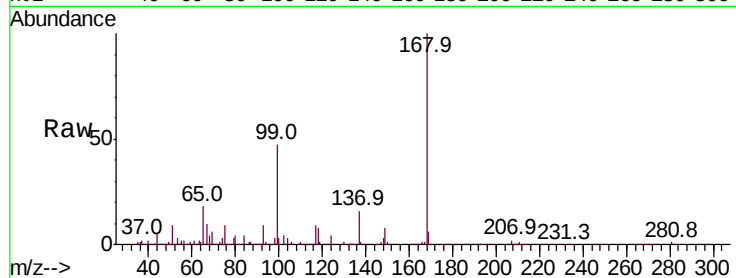
VF0524SBS01

Tot Ion:168 Resp: 278455

Ion Ratio Lower Upper

168 100

99 47.4 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

100000

80000

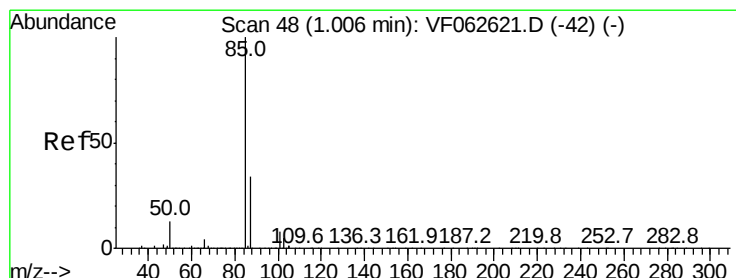
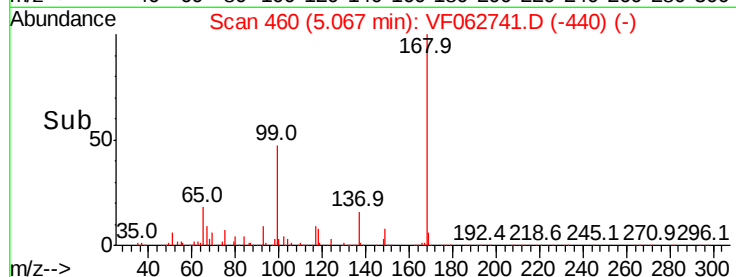
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 22.202 ug/l

RT: 1.01 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062741.D

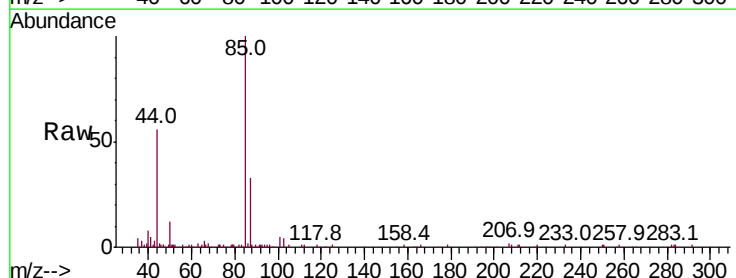
Acq: 24 May 2019 12:24

Tgt Ion: 85 Resp: 84133

Ion Ratio Lower Upper

85 100

87 33.1 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

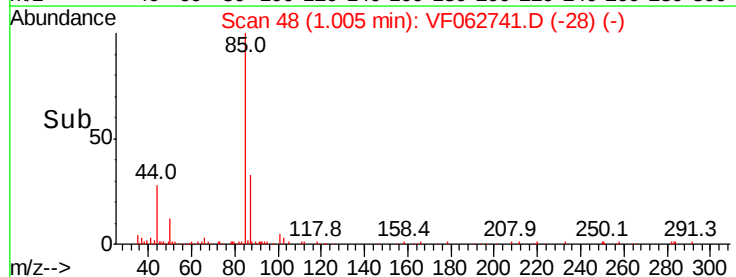
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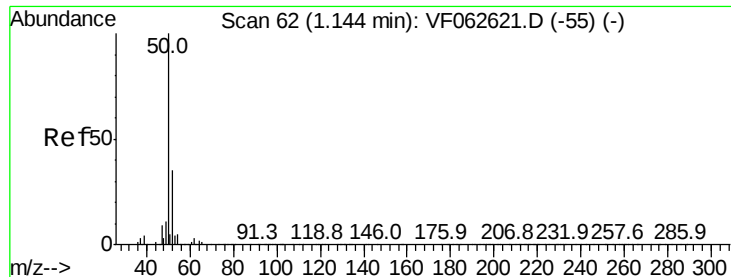
20000

10000

0

Time--> 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 21.504 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

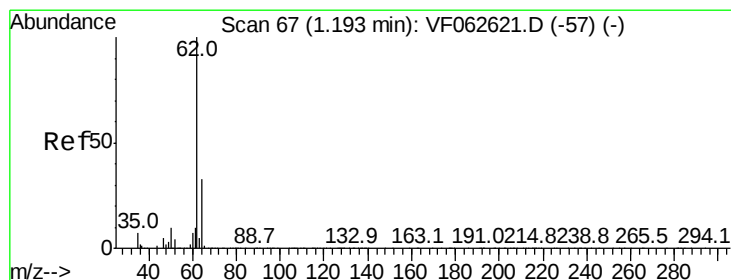
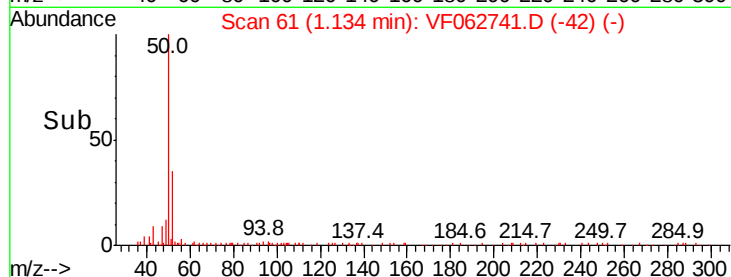
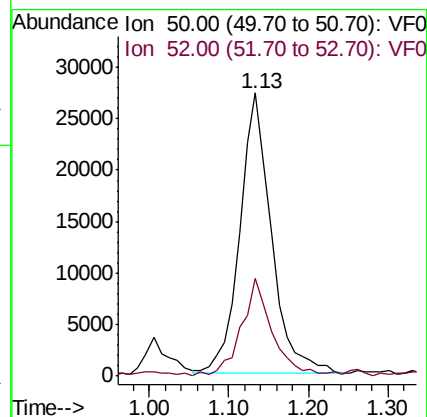
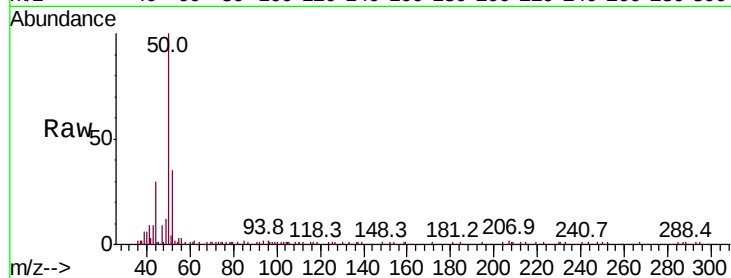
VF0524SBS01

Tot Ion: 50 Resp: 75030

Ion Ratio Lower Upper

50 100

52 34.7 27.5 41.3



#4

Vinyl Chloride

Concen: 22.859 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062741.D

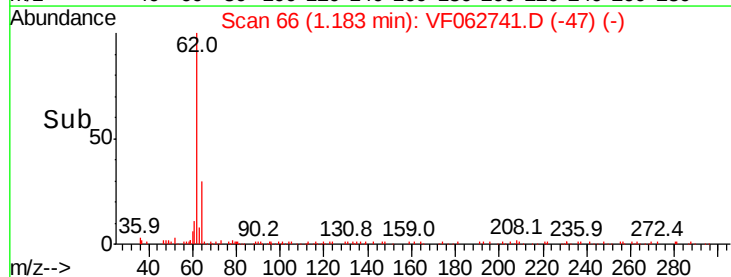
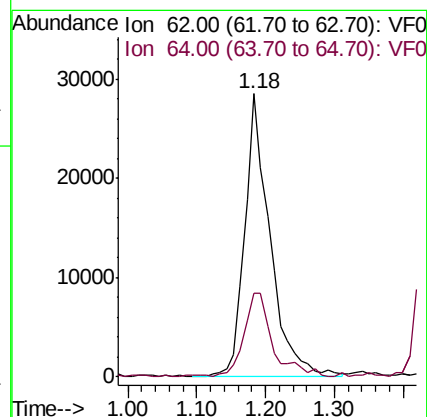
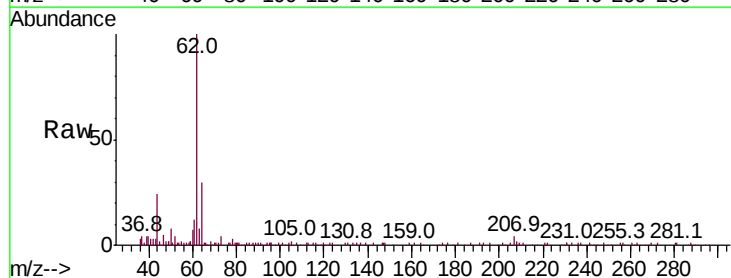
Acq: 24 May 2019 12:24

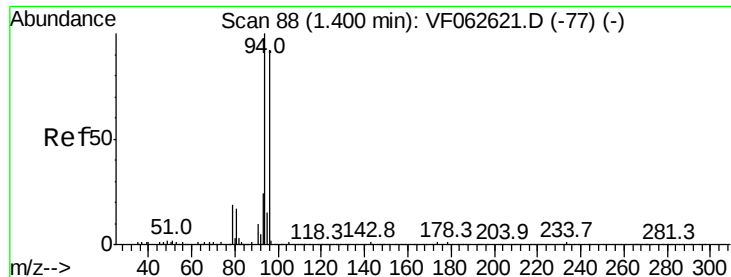
Tgt Ion: 62 Resp: 73418

Ion Ratio Lower Upper

62 100

64 29.7 26.7 40.1





#5

Bromomethane

Concen: 22.671 ug/l

RT: 1.37 min Scan# 85

Delta R.T. -0.03 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

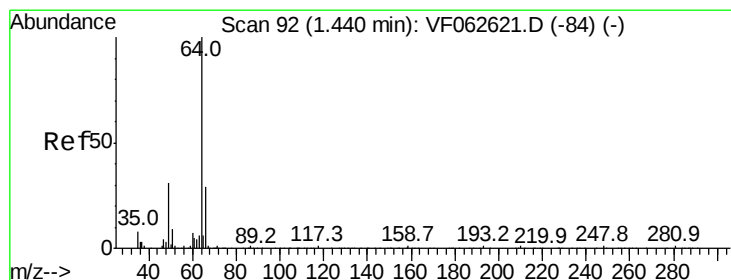
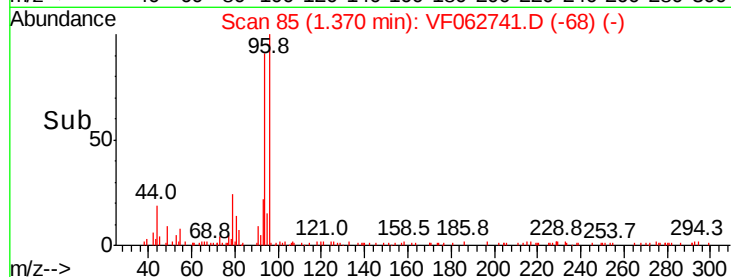
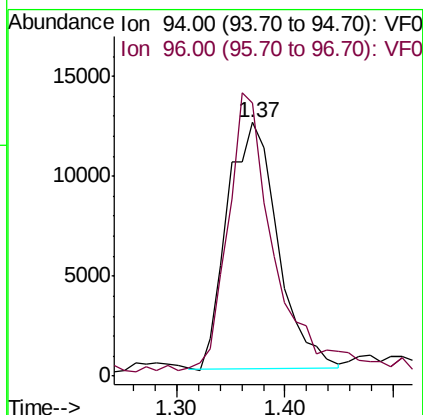
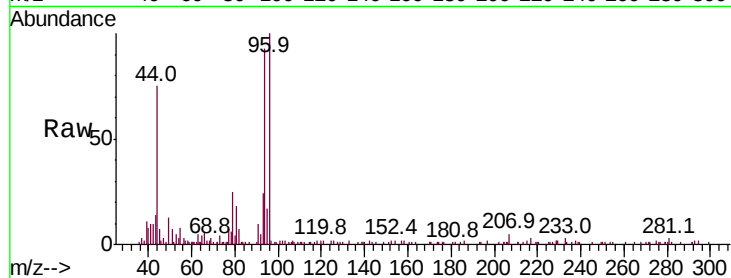
VF0524SBS01

Tot Ion: 94 Resp: 39834

Ion Ratio Lower Upper

94 100

96 107.5 73.2 109.8



#6

Chloroethane

Concen: 26.328 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF062741.D

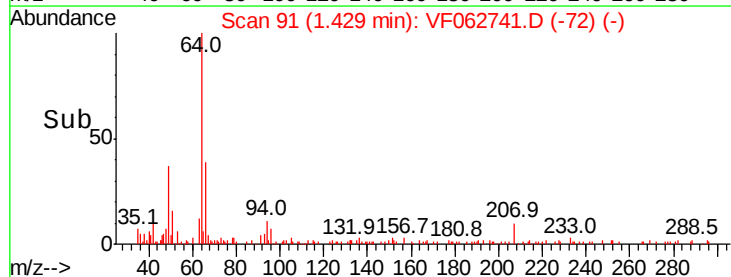
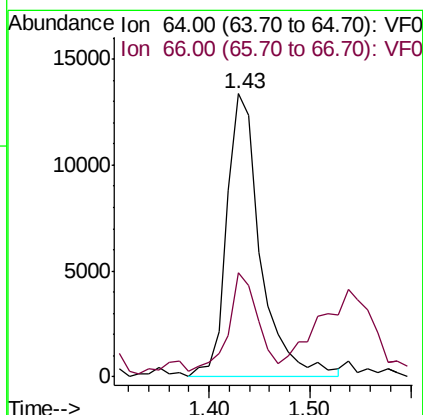
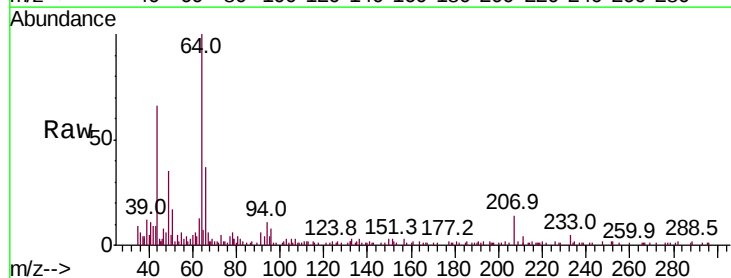
Acq: 24 May 2019 12:24

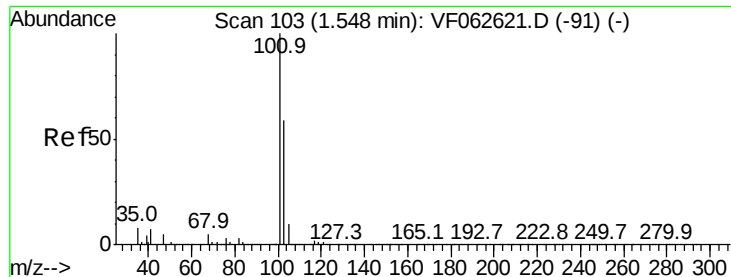
Tgt Ion: 64 Resp: 31056

Ion Ratio Lower Upper

64 100

66 36.8 23.4 35.2#



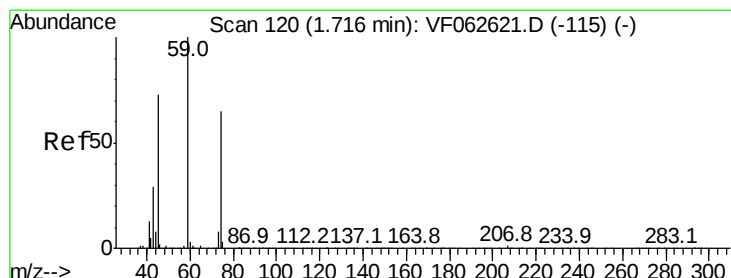
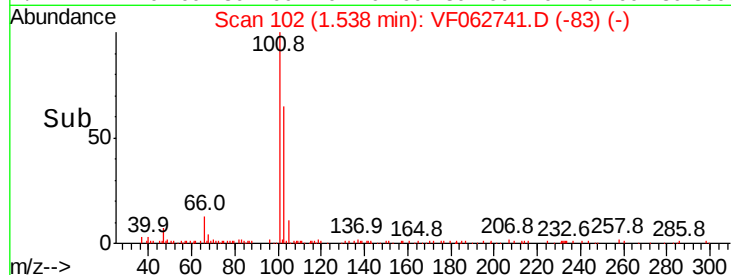
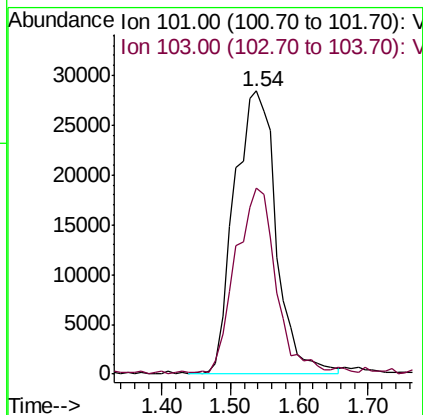
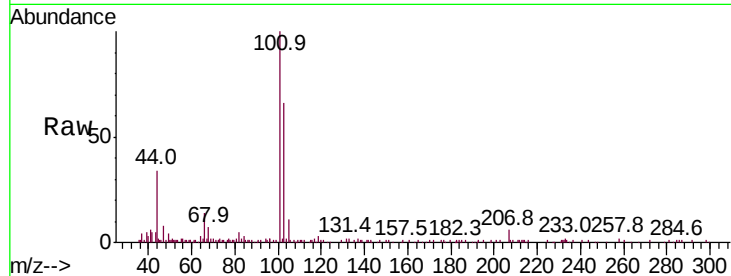


#7

Trichlorofluoromethane  
Concen: 27.822 ug/l  
RT: 1.54 min Scan# 102  
Delta R.T. -0.01 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

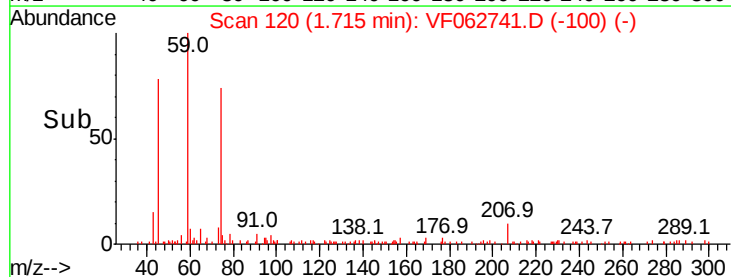
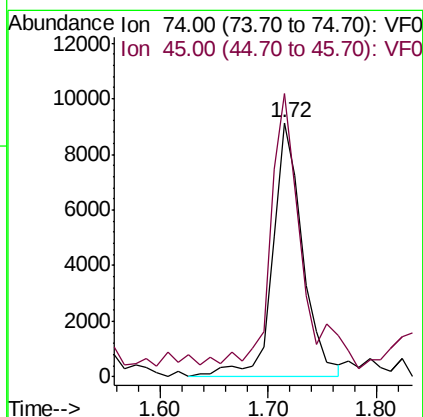
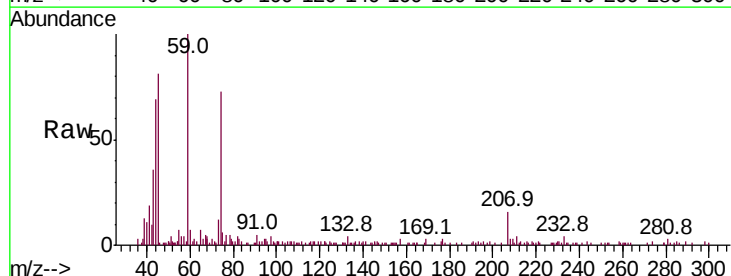
Tot Ion:101 Resp: 119980  
Ion Ratio Lower Upper  
101 100  
103 65.7 47.3 70.9

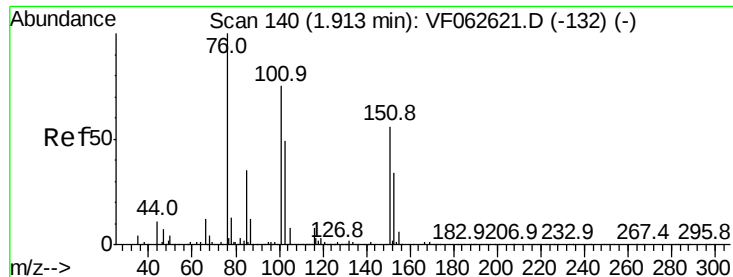


#8

Diethyl Ether  
Concen: 20.724 ug/l  
RT: 1.72 min Scan# 120  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion: 74 Resp: 17705  
Ion Ratio Lower Upper  
74 100  
45 111.2 57.0 170.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.089 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

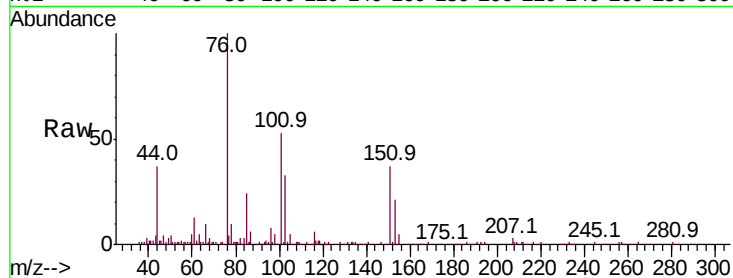
Tot Ion:101 Resp: 68894

Ion Ratio Lower Upper

101 100

85 45.4 37.1 55.7

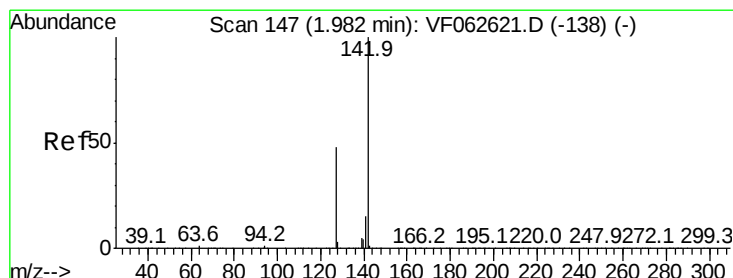
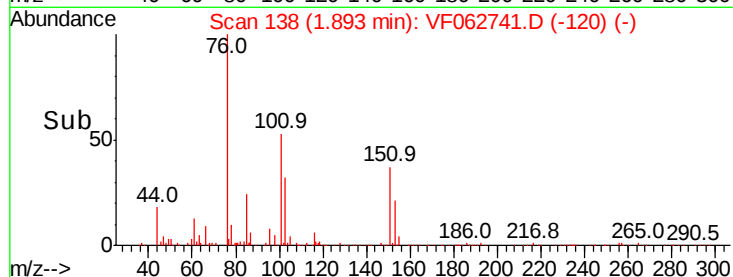
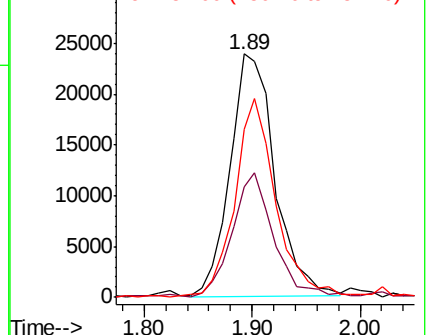
151 69.0 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 22.043 ug/l

RT: 1.97 min Scan# 146

Delta R.T. -0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

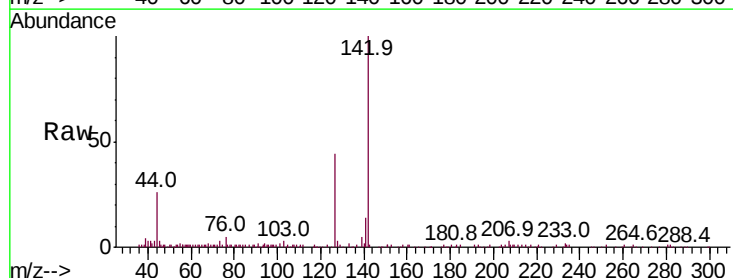
Tgt Ion:142 Resp: 118905

Ion Ratio Lower Upper

142 100

127 44.1 38.1 57.1

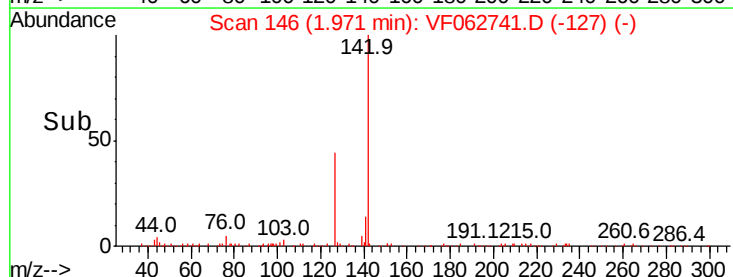
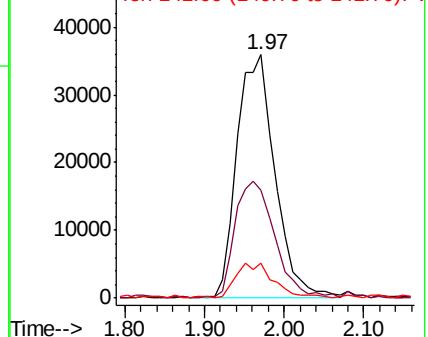
141 14.4 11.7 17.5

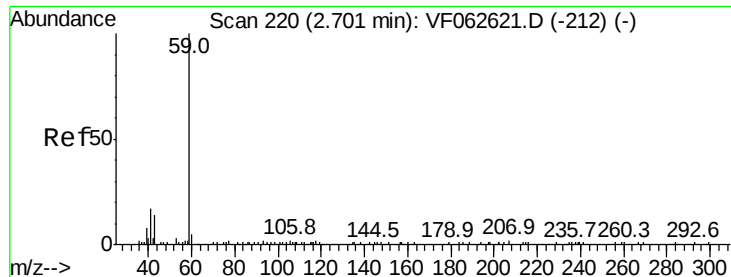


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

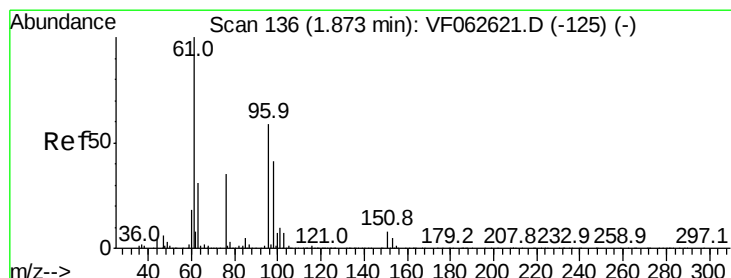
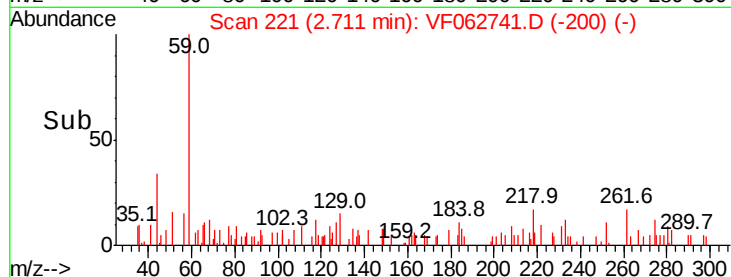
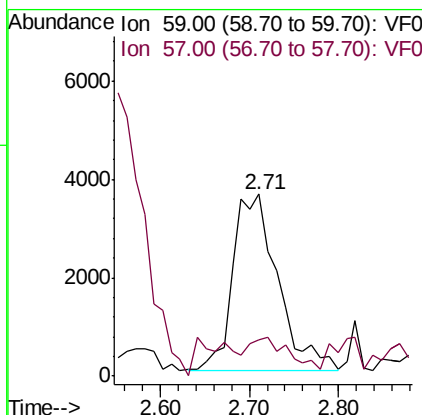
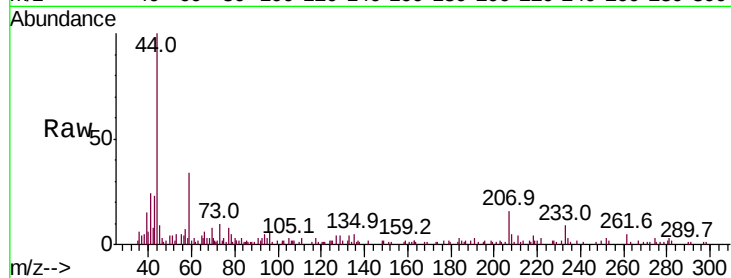




#11  
Tert butyl alcohol  
Concen: 97.099 ug/l  
RT: 2.71 min Scan# 221  
Delta R.T. 0.01 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

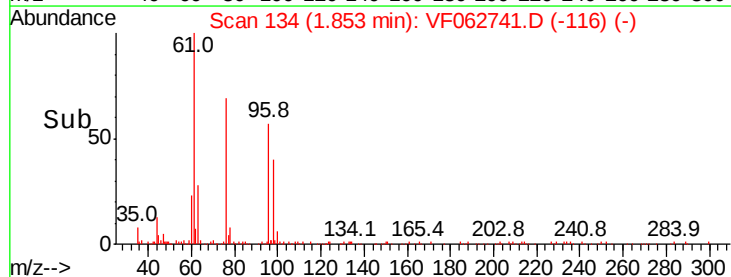
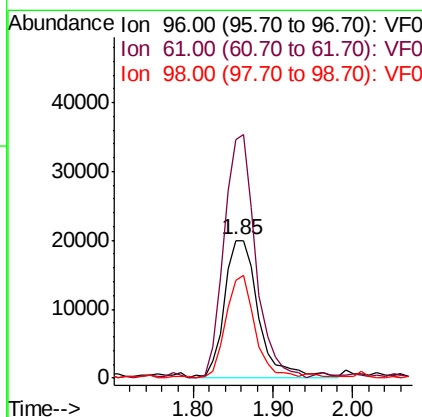
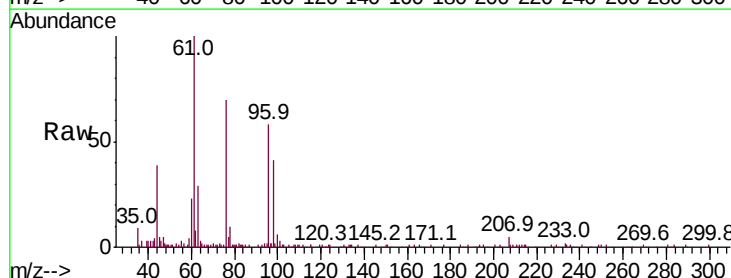
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

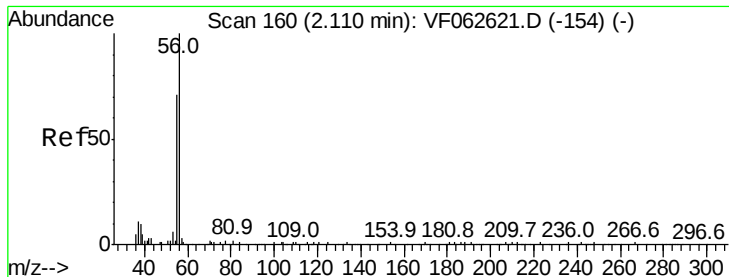
Tot Ion: 59 Resp: 12614  
Ion Ratio Lower Upper  
59 100  
57 19.8 9.3 13.9#



#12  
1,1-Dichloroethene  
Concen: 23.656 ug/l  
RT: 1.85 min Scan# 134  
Delta R.T. -0.02 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion: 96 Resp: 59173  
Ion Ratio Lower Upper  
96 100  
61 167.3 134.3 201.5  
98 71.5 55.0 82.6





#13

Acrolein

Concen: 90.903 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

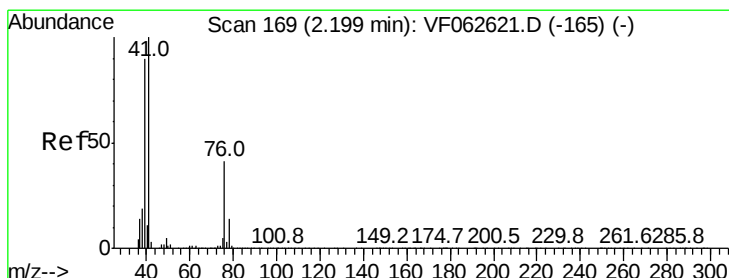
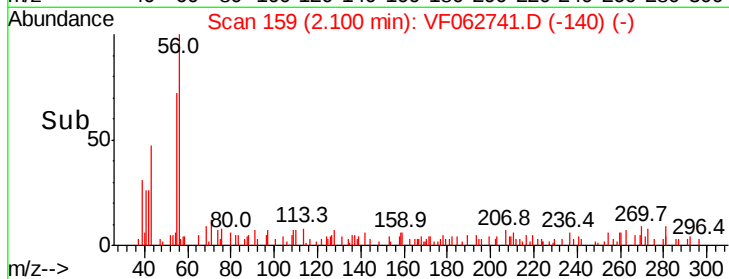
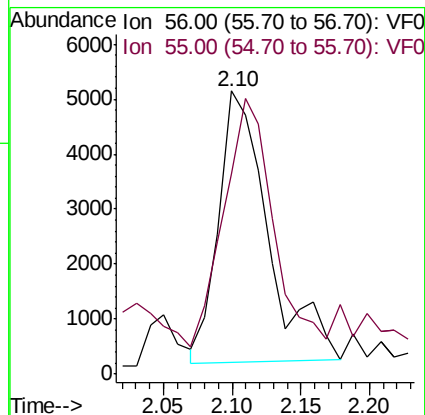
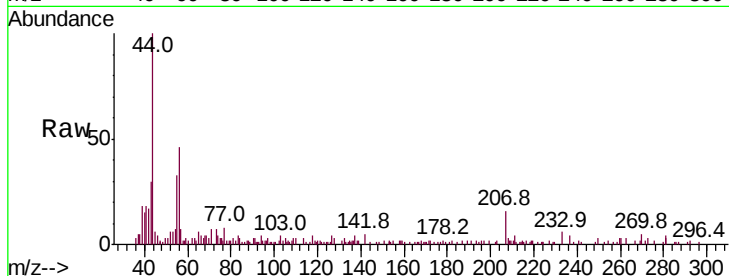
VF0524SBS01

Tot Ion: 56 Resp: 12327

Ion Ratio Lower Upper

56 100

55 70.9 59.4 89.0



#14

Allyl chloride

Concen: 27.569 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

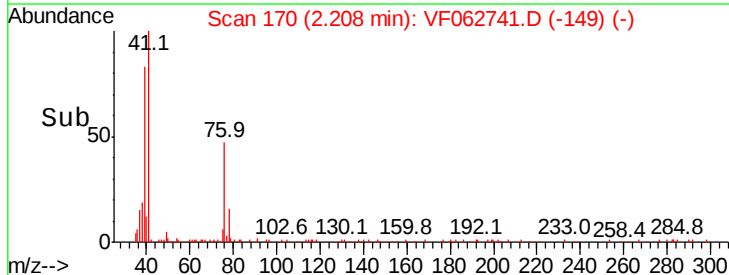
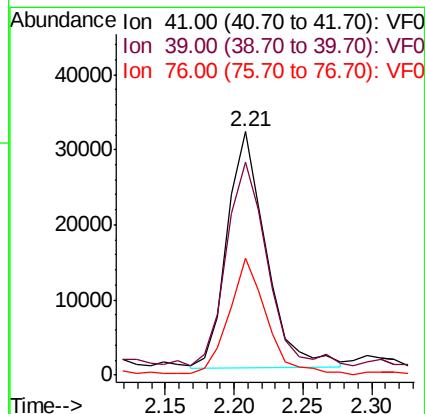
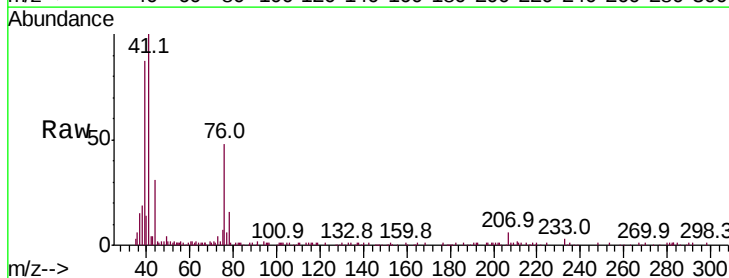
Tgt Ion: 41 Resp: 62415

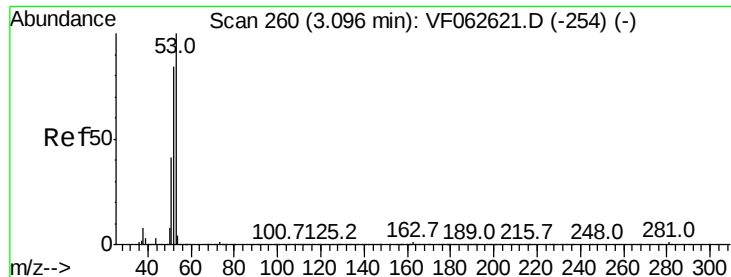
Ion Ratio Lower Upper

41 100

39 87.2 72.0 108.0

76 47.8 34.8 52.2





#15

Acrylonitrile

Concen: 94.905 ug/l

RT: 3.10 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

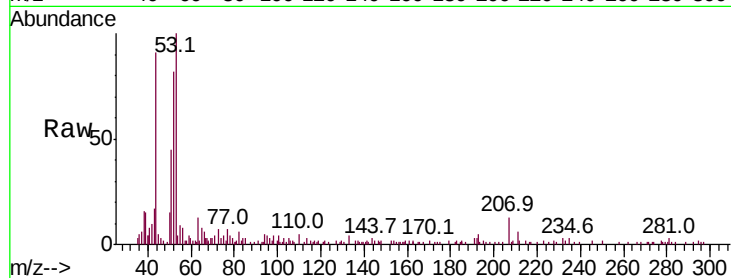
Tot Ion: 53 Resp: 34778

Ion Ratio Lower Upper

53 100

52 82.2 67.3 100.9

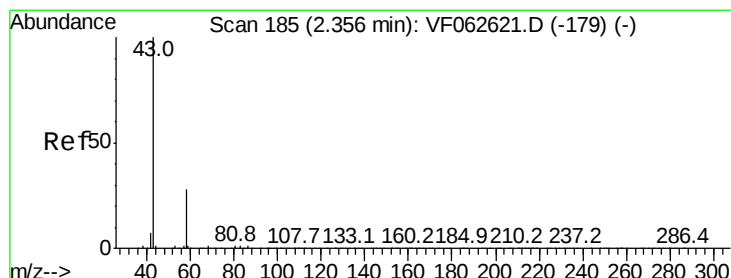
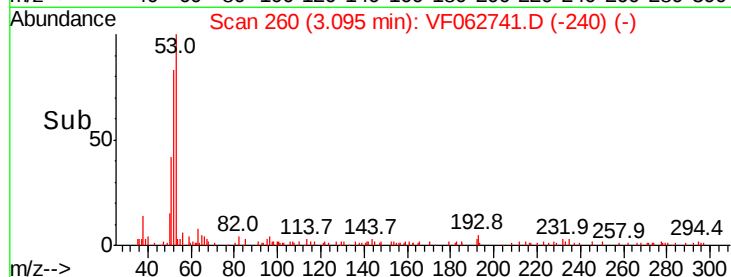
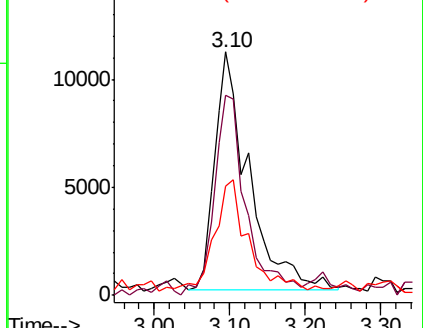
51 44.9 33.0 49.6



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 102.606 ug/l m

RT: 2.36 min Scan# 185

Delta R.T. -0.00 min

Lab File: VF062741.D

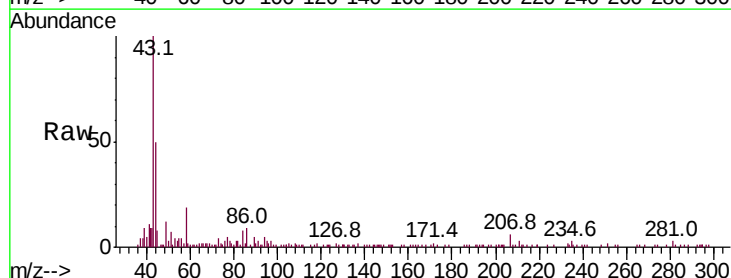
Acq: 24 May 2019 12:24

Tgt Ion: 43 Resp: 52379

Ion Ratio Lower Upper

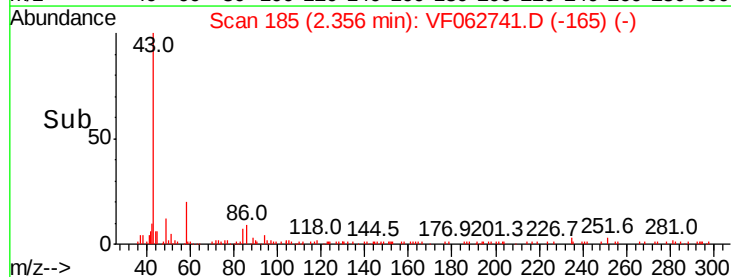
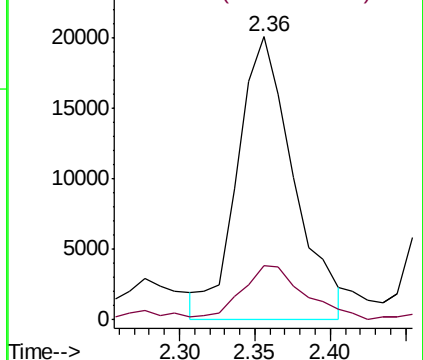
43 100

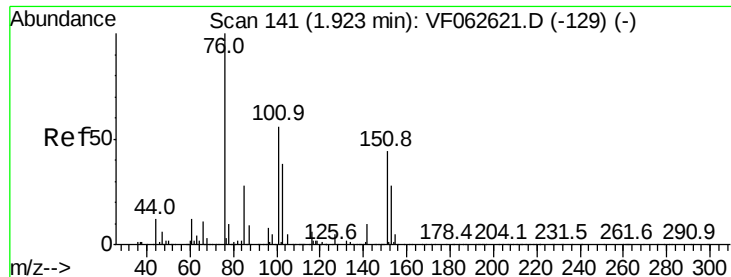
58 19.3 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

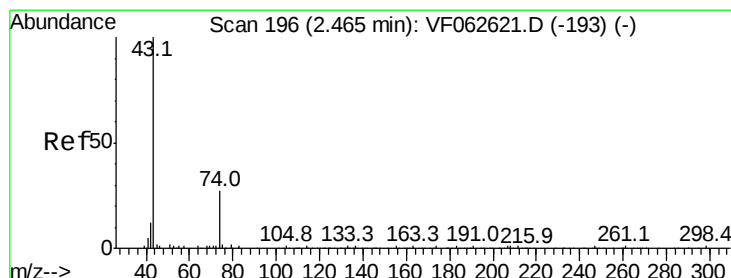
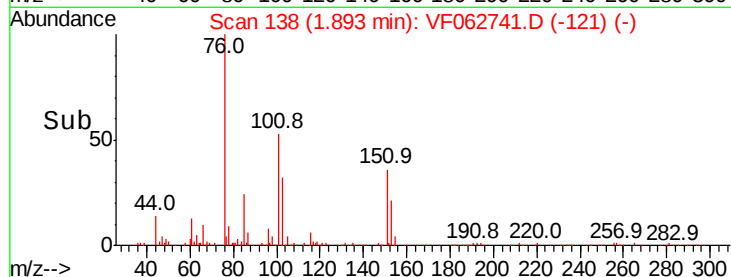
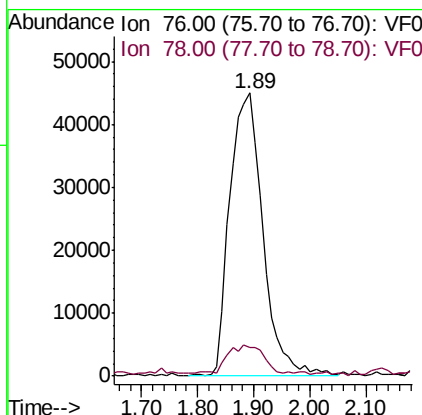
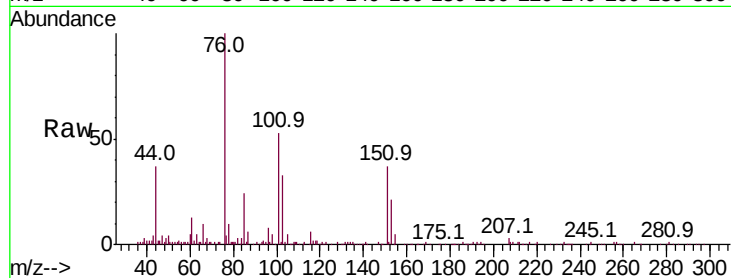




#17  
Carbon Disulfide  
Concen: 25.010 ug/l  
RT: 1.89 min Scan# 138  
Delta R.T. -0.03 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

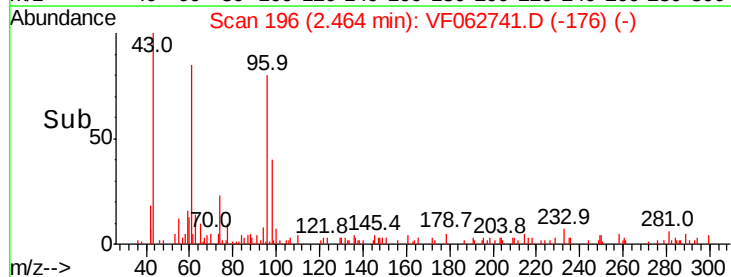
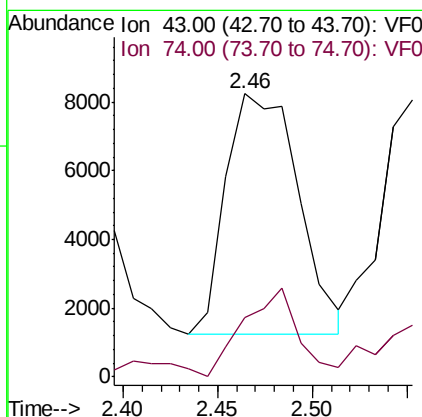
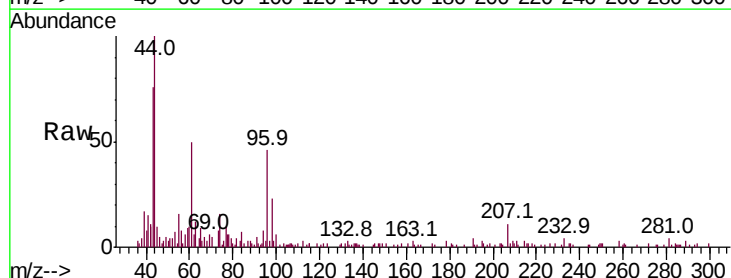
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

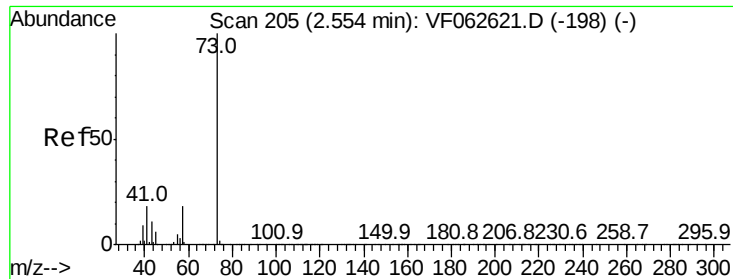
Tot Ion: 76 Resp: 185431  
Ion Ratio Lower Upper  
76 100  
78 10.2 8.4 12.6



#18  
Methyl Acetate  
Concen: 23.191 ug/l  
RT: 2.46 min Scan# 196  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion: 43 Resp: 18604  
Ion Ratio Lower Upper  
43 100  
74 21.1 18.9 28.3

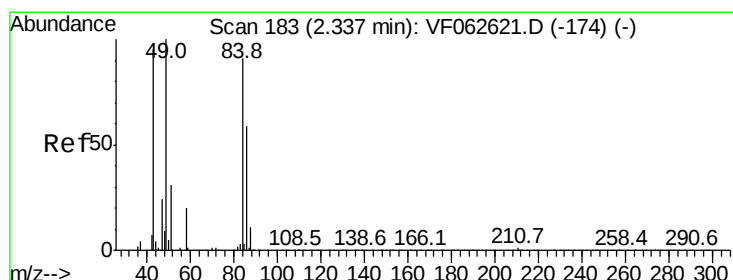
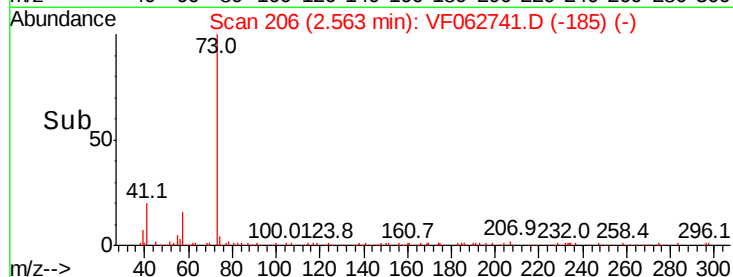
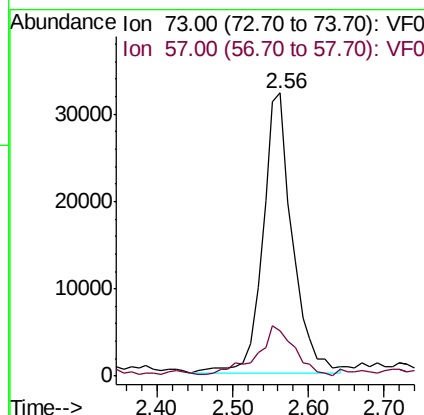
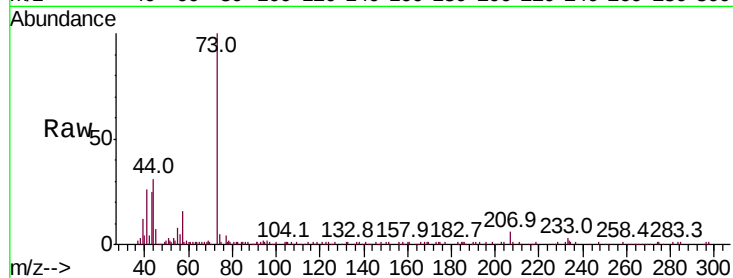




#19  
Methyl tert-butyl Ether  
Concen: 19.336 ug/l  
RT: 2.56 min Scan# 206  
Delta R.T. 0.01 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

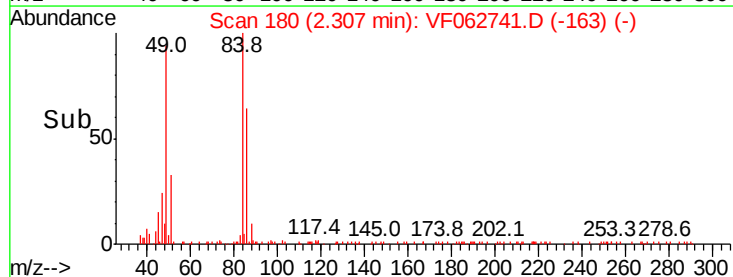
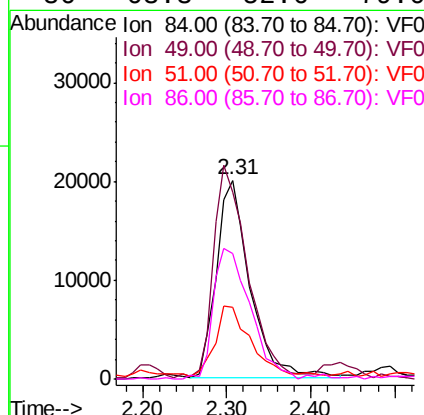
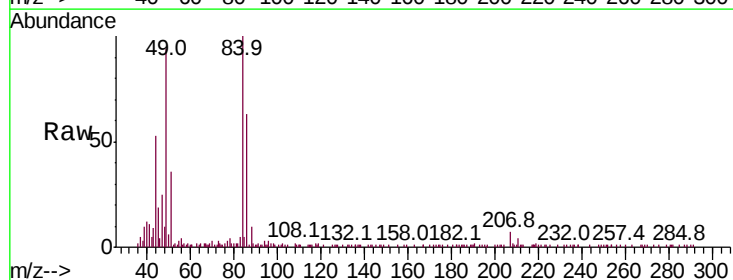
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

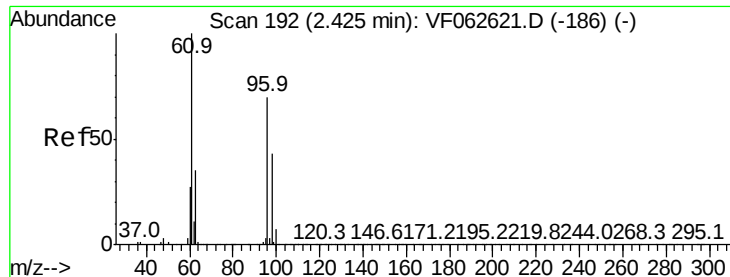
Tot Ion: 73 Resp: 86466  
Ion Ratio Lower Upper  
73 100  
57 16.2 14.2 21.4



#20  
Methylene Chloride  
Concen: 21.710 ug/l  
RT: 2.31 min Scan# 180  
Delta R.T. -0.03 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion: 84 Resp: 55550  
Ion Ratio Lower Upper  
84 100  
49 93.9 89.8 134.8  
51 35.8 28.4 42.6  
86 63.3 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 23.842 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

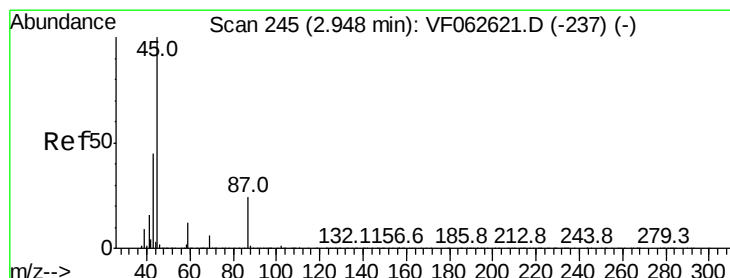
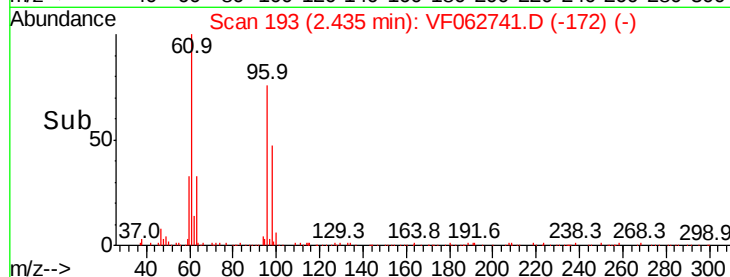
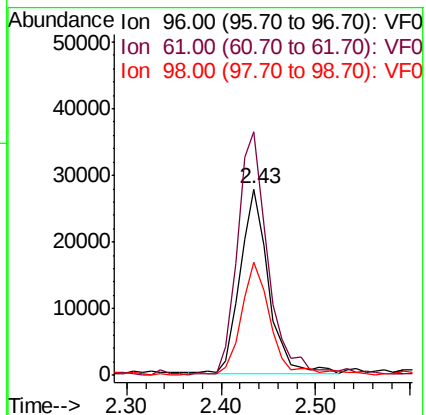
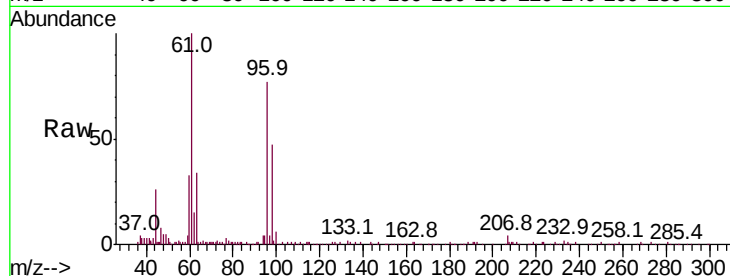
Tot Ion: 96 Resp: 58293

Ion Ratio Lower Upper

96 100

61 130.5 114.6 171.8

98 60.8 49.5 74.3



#22

Diisopropyl ether

Concen: 19.294 ug/l

RT: 2.95 min Scan# 245

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Tgt Ion: 45 Resp: 107730

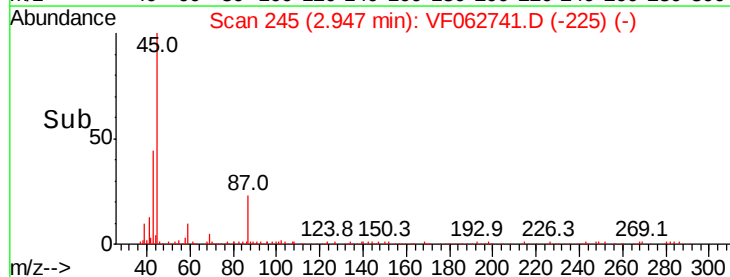
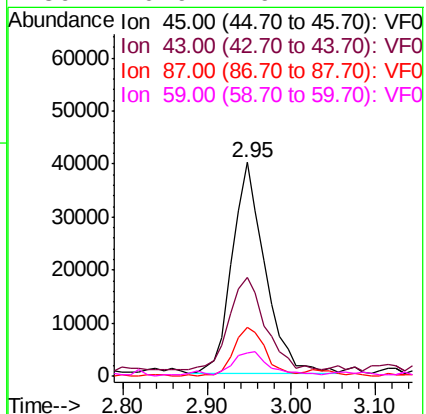
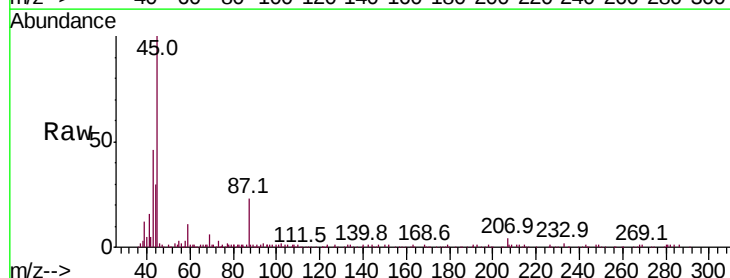
Ion Ratio Lower Upper

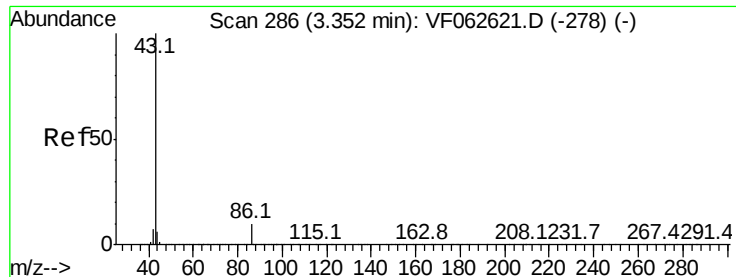
45 100

43 46.5 36.4 54.6

87 22.7 19.3 28.9

59 10.9 9.4 14.2





#23

Vinyl Acetate

Concen: 81.430 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

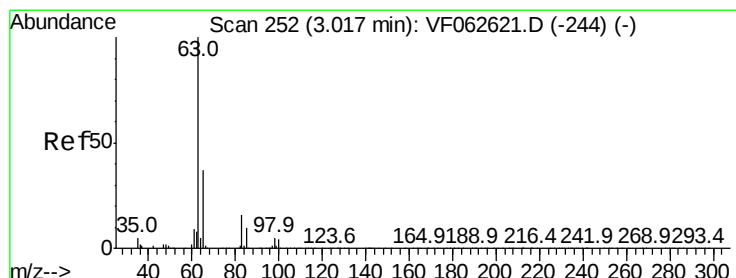
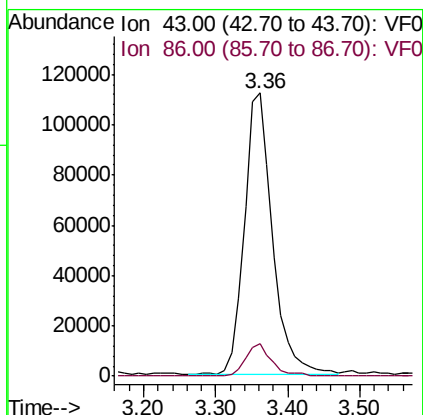
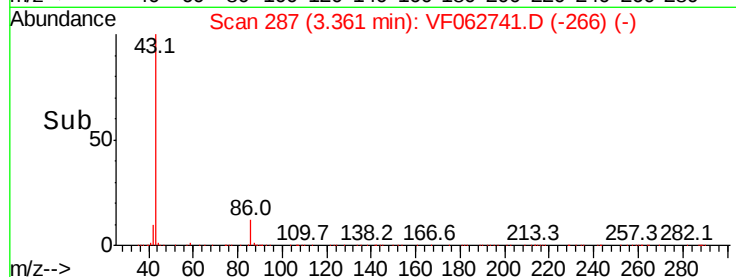
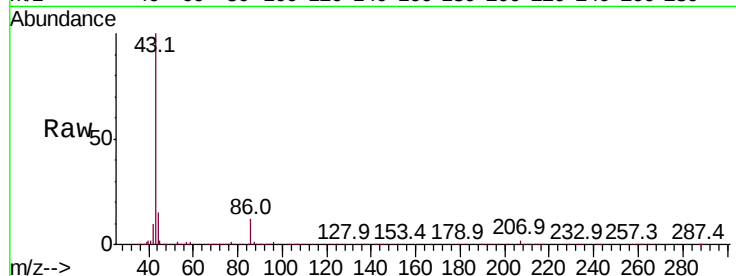
VF0524SBS01

Tot Ion: 43 Resp: 306718

Ion Ratio Lower Upper

43 100

86 11.7 8.2 12.2



#24

1,1-Dichloroethane

Concen: 22.724 ug/l

RT: 3.03 min Scan# 253

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

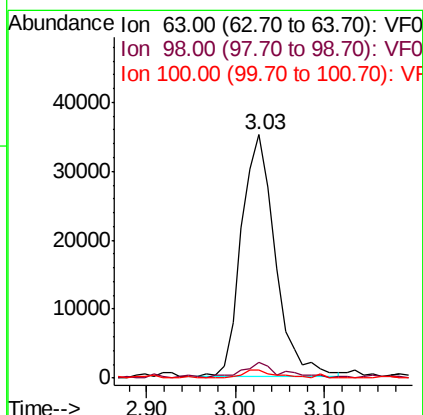
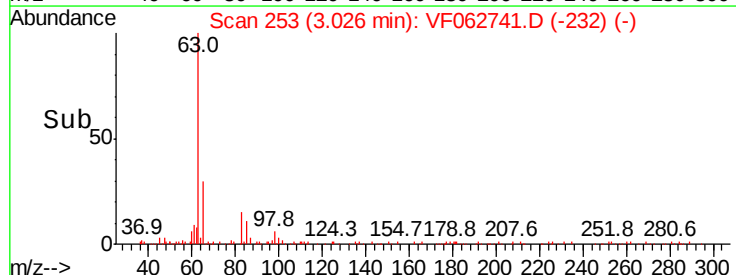
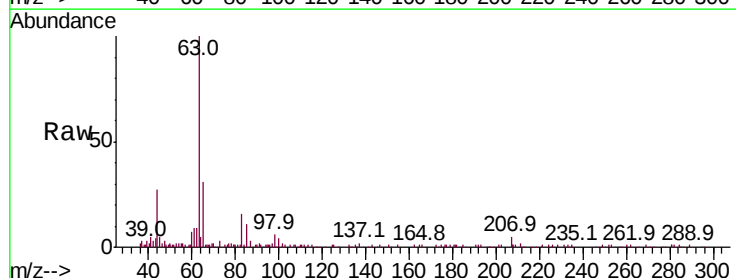
Tgt Ion: 63 Resp: 93081

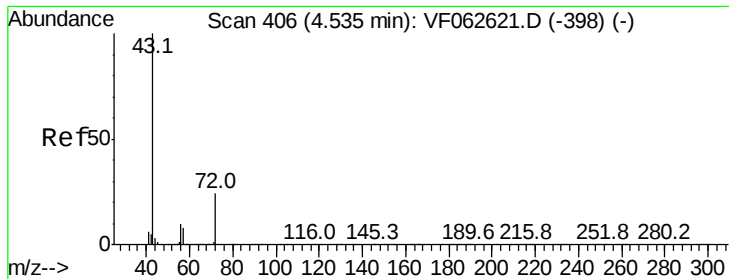
Ion Ratio Lower Upper

63 100

98 6.9 2.8 8.3

100 3.6 1.9 5.7





#25

2-Butanone

Concen: 119.368 ug/l

RT: 4.53 min Scan# 406

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

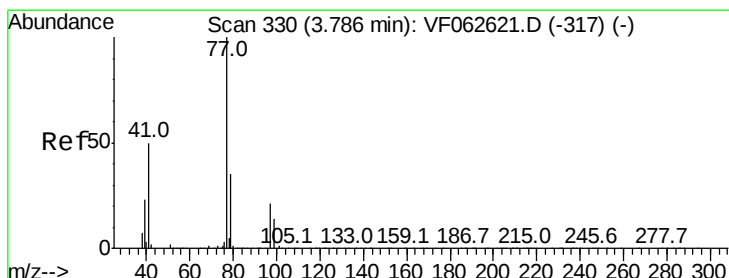
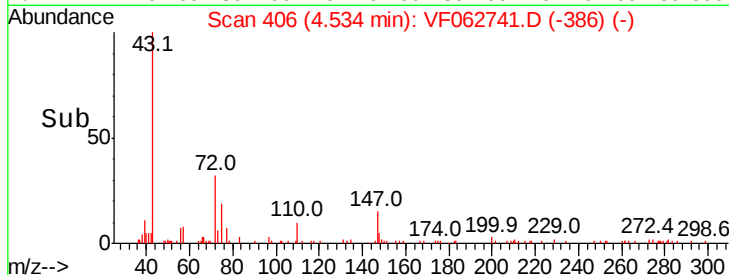
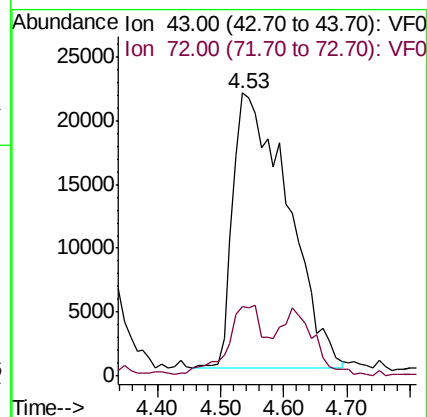
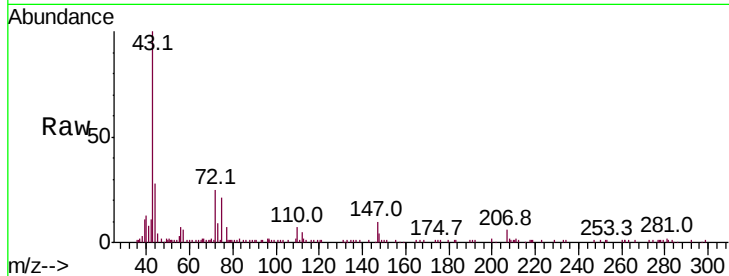
VF0524SBS01

Tot Ion: 43 Resp: 130188

Ion Ratio Lower Upper

43 100

72 24.5 20.1 30.1



#26

2,2-Dichloropropane

Concen: 32.025 ug/l

RT: 3.79 min Scan# 330

Delta R.T. -0.00 min

Lab File: VF062741.D

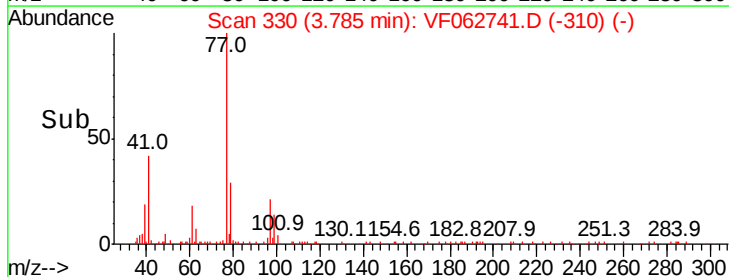
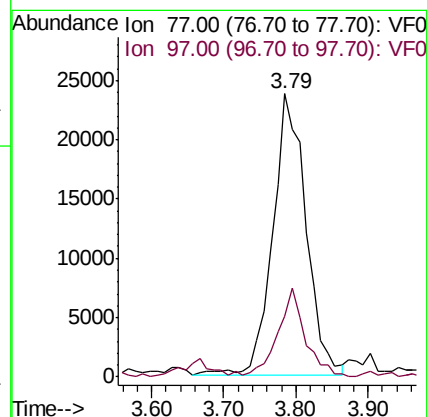
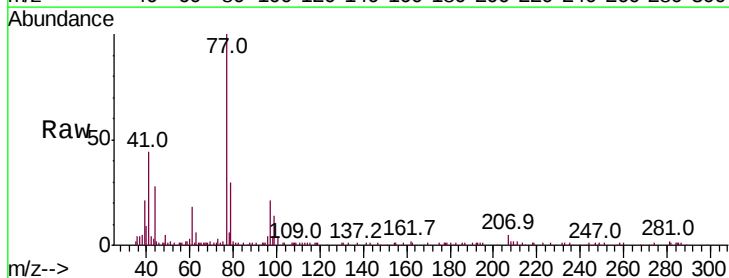
Acq: 24 May 2019 12:24

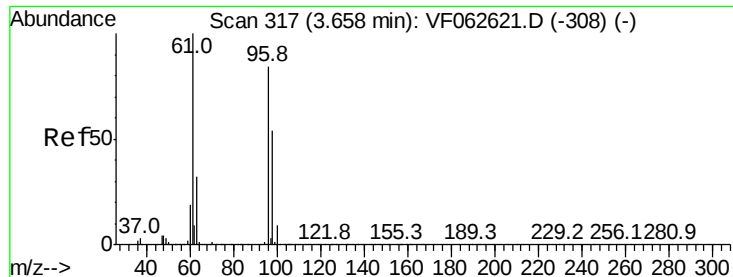
Tgt Ion: 77 Resp: 75058

Ion Ratio Lower Upper

77 100

97 21.4 14.1 42.4



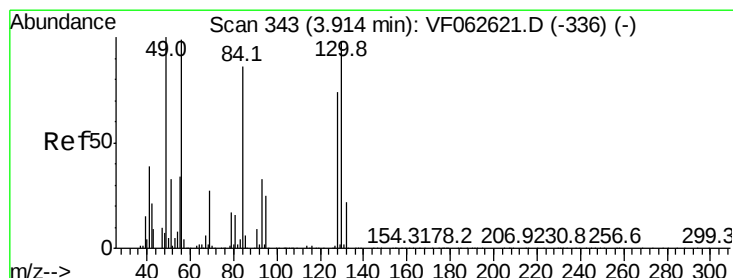
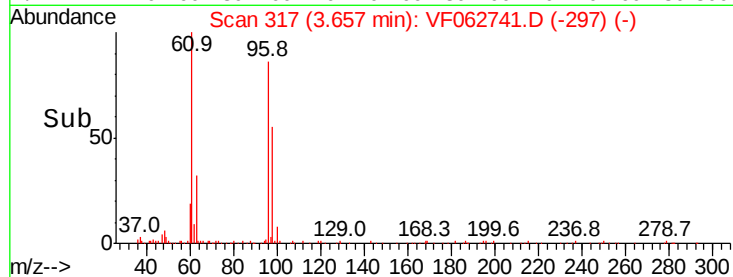
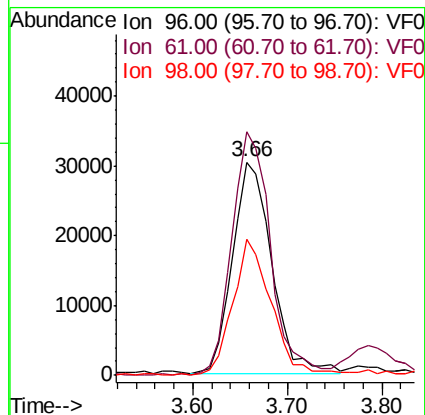
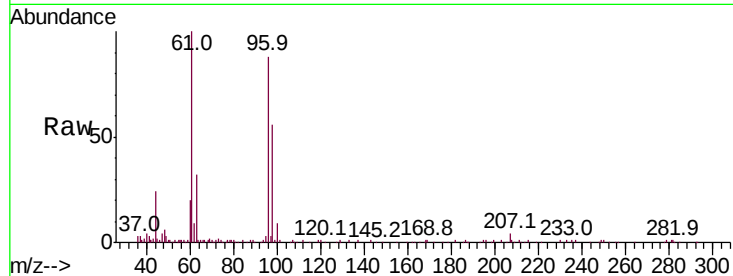


#27

cis-1,2-Dichloroethene  
 Concen: 21.653 ug/l  
 RT: 3.66 min Scan# 317  
 Delta R.T. -0.00 min  
 Lab File: VF062741.D  
 Acq: 24 May 2019 12:24

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0524SBS01

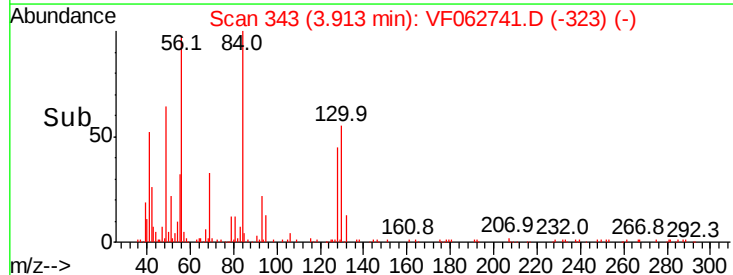
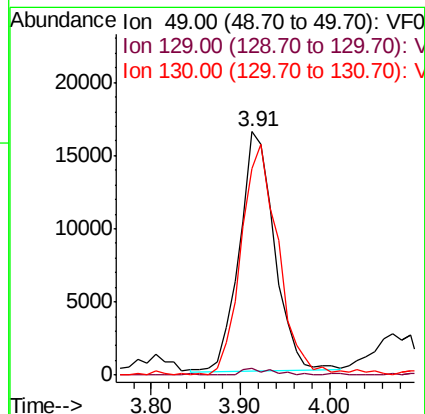
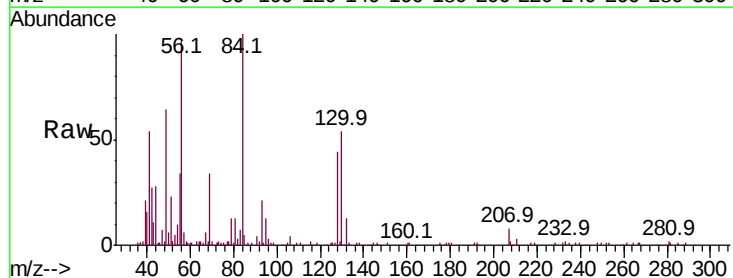
| Tot Ion | 96    | Resp  | 87084 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 96      | 100   |       |       |
| 61      | 114.3 | 0.0   | 237.4 |
| 98      | 64.0  | 0.0   | 129.0 |

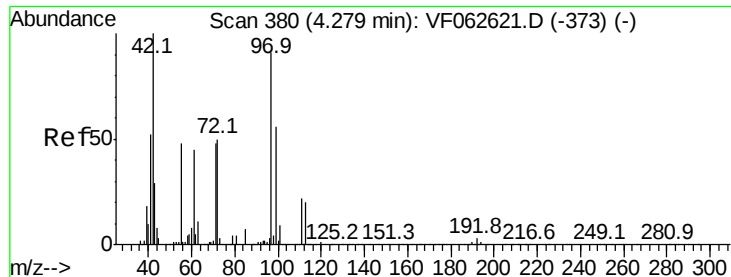


#28

Bromochloromethane  
 Concen: 19.604 ug/l  
 RT: 3.91 min Scan# 343  
 Delta R.T. -0.00 min  
 Lab File: VF062741.D  
 Acq: 24 May 2019 12:24

| Tgt Ion | 49    | Resp  | 45037 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 49      | 100   |       |       |
| 129     | 2.6   | 0.0   | 4.0   |
| 130     | 84.6  | 77.8  | 116.8 |





#29

Tetrahydrofuran

Concen: 85.500 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

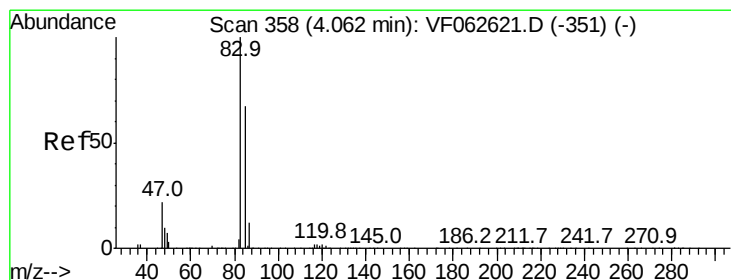
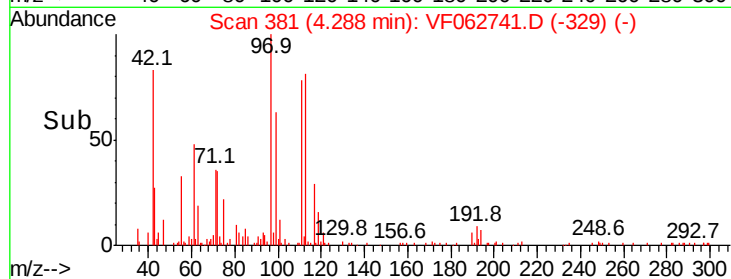
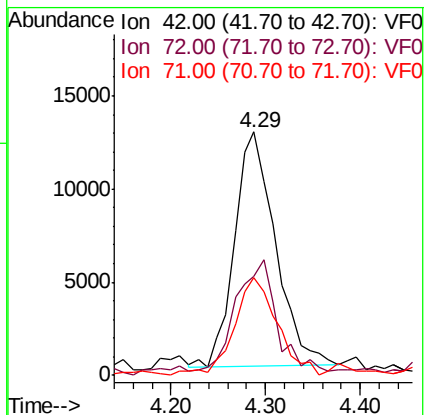
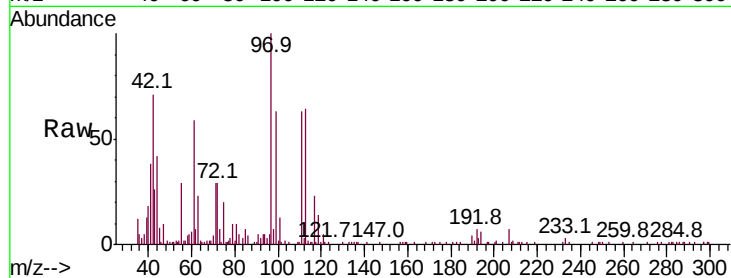
Tot Ion: 42 Resp: 37735

Ion Ratio Lower Upper

42 100

72 52.3 38.2 57.2

71 44.0 35.8 53.6



#30

Chloroform

Concen: 21.378 ug/l

RT: 4.06 min Scan# 358

Delta R.T. -0.00 min

Lab File: VF062741.D

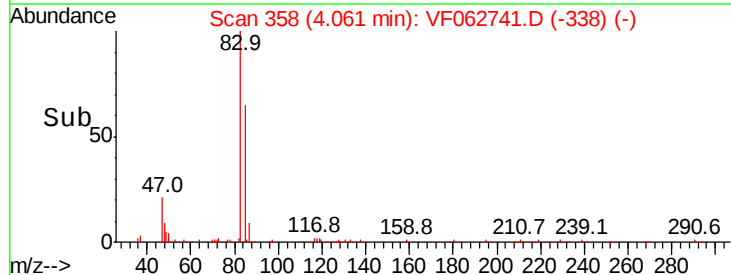
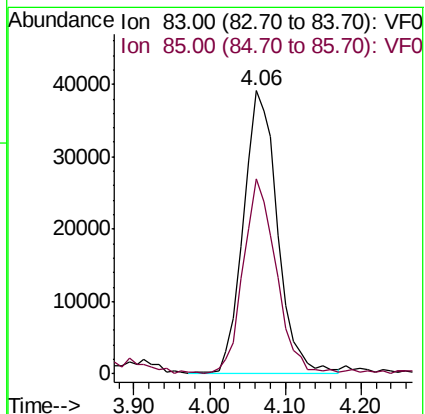
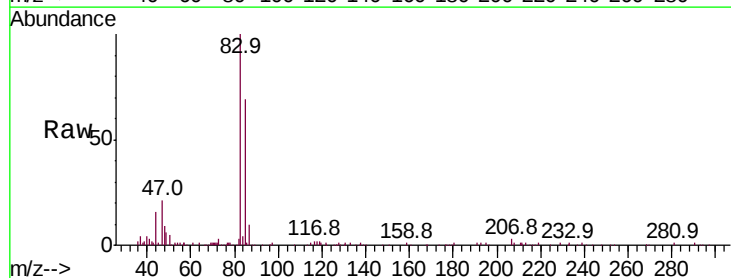
Acq: 24 May 2019 12:24

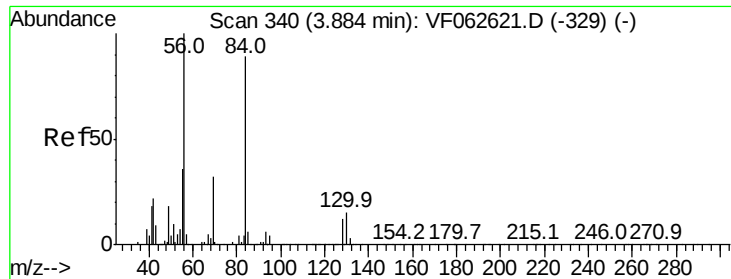
Tgt Ion: 83 Resp: 121582

Ion Ratio Lower Upper

83 100

85 69.0 53.6 80.4

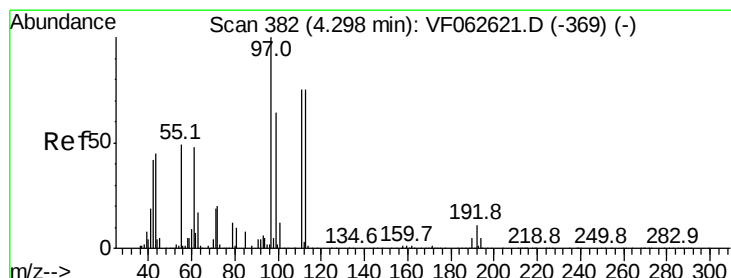
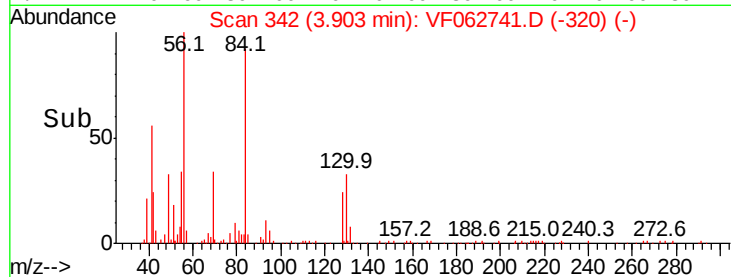
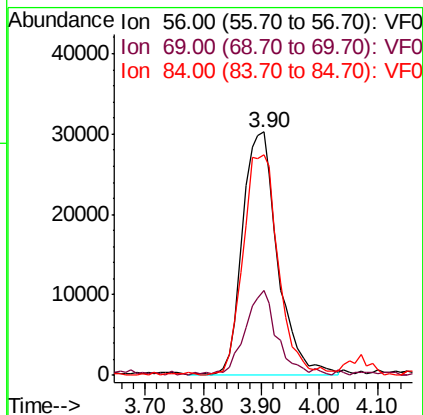
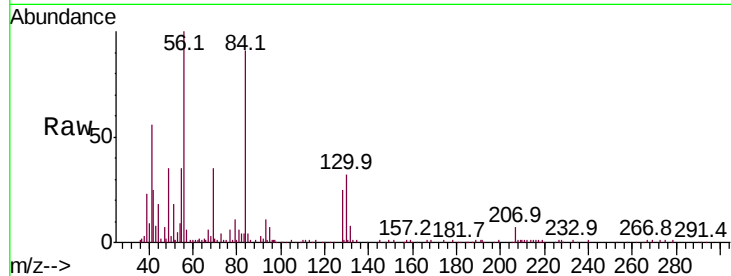




#31  
Cyclohexane  
Concen: 23.143 ug/l  
RT: 3.90 min Scan# 342  
Delta R.T. 0.02 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

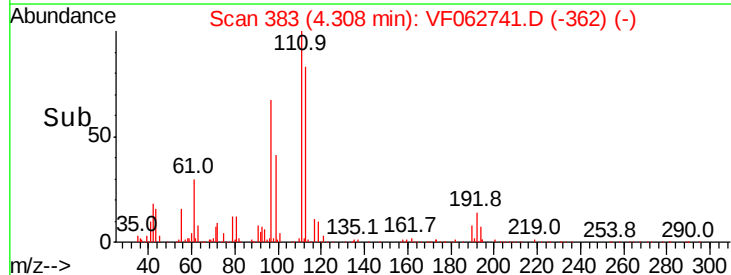
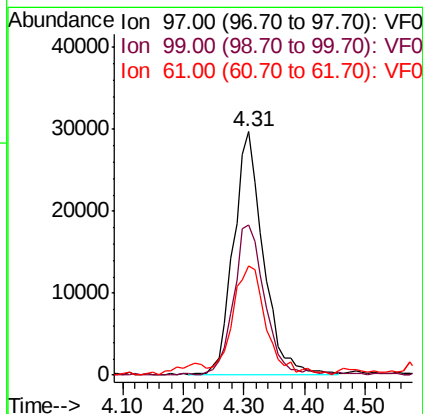
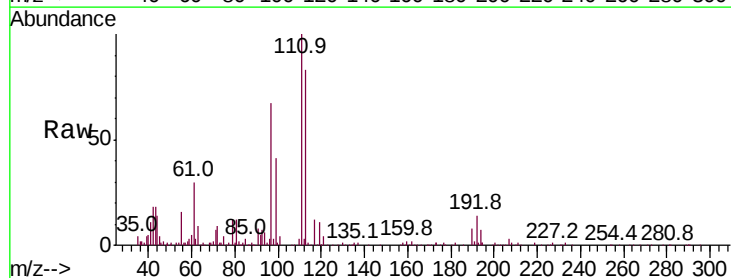
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

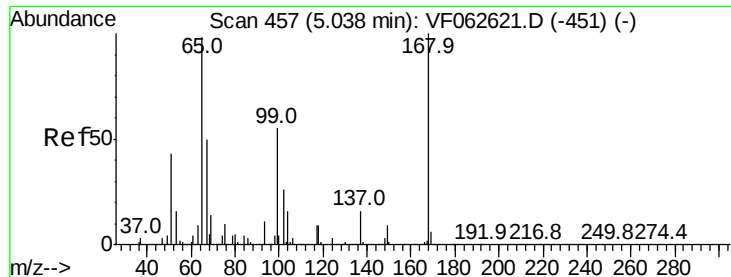
Tot Ion: 56 Resp: 127285  
Ion Ratio Lower Upper  
56 100  
69 34.8 25.3 37.9  
84 90.7 71.0 106.4



#32  
1,1,1-Trichloroethane  
Concen: 26.980 ug/l  
RT: 4.31 min Scan# 383  
Delta R.T. 0.01 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion: 97 Resp: 101902  
Ion Ratio Lower Upper  
97 100  
99 61.5 51.3 76.9  
61 44.6 38.2 57.2





#33

1,2-Dichloroethane-d4

Concen: 42.433 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

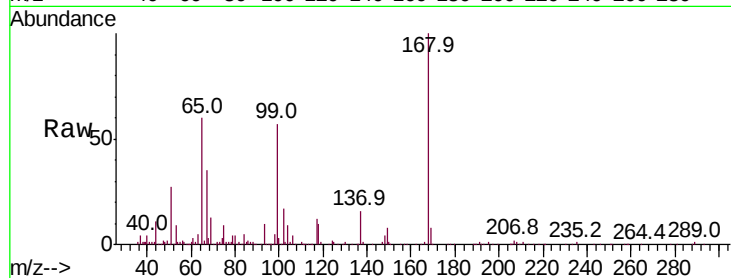
VF0524SBS01

Tot Ion: 65 Resp: 83496

Ion Ratio Lower Upper

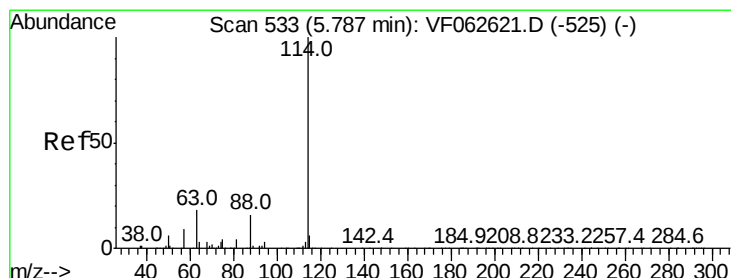
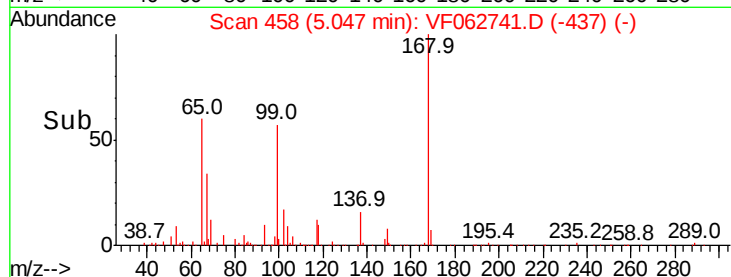
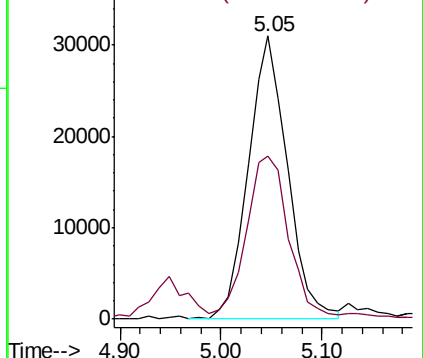
65 100

67 57.5 0.0 117.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

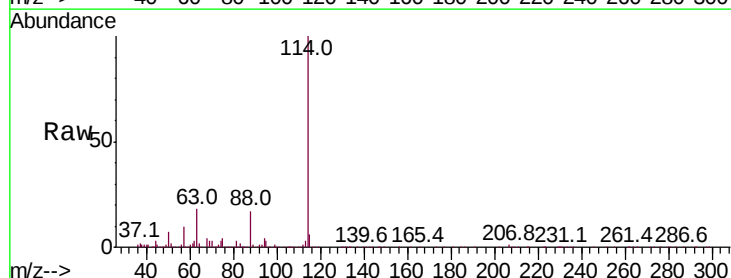
Tgt Ion:114 Resp: 463465

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.4

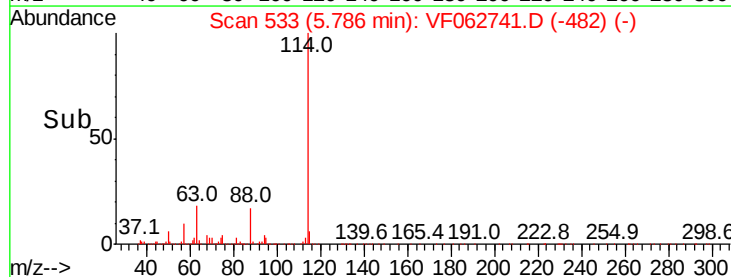
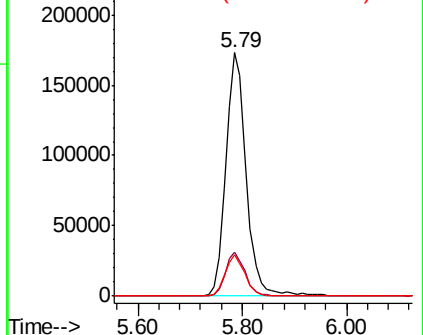
88 16.8 0.0 32.4

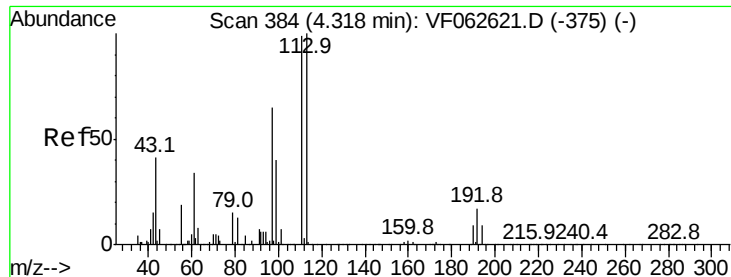


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

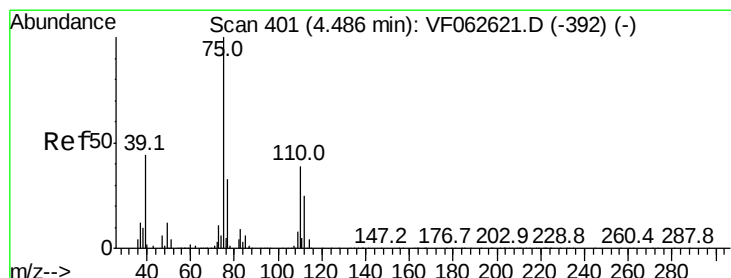
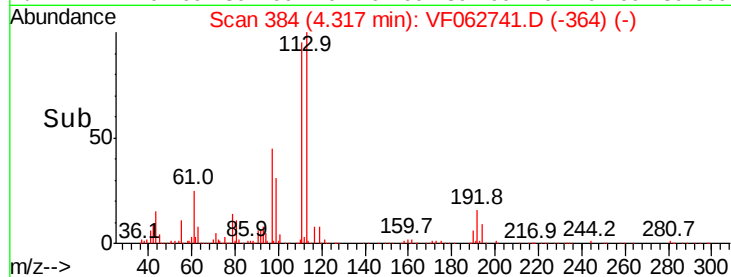
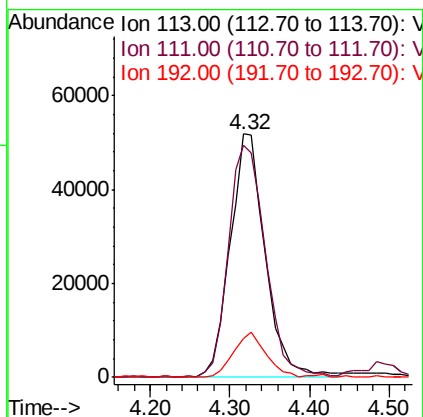
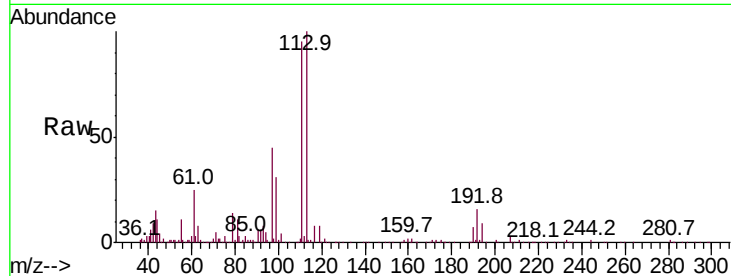




#35  
 Dibromofluoromethane  
 Concen: 45.074 ug/l  
 RT: 4.32 min Scan# 384  
 Delta R.T. -0.00 min  
 Lab File: VF062741.D  
 Acq: 24 May 2019 12:24

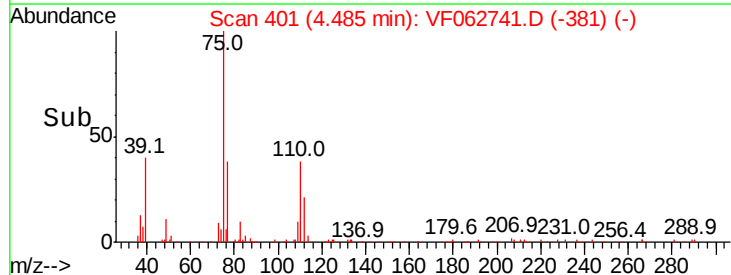
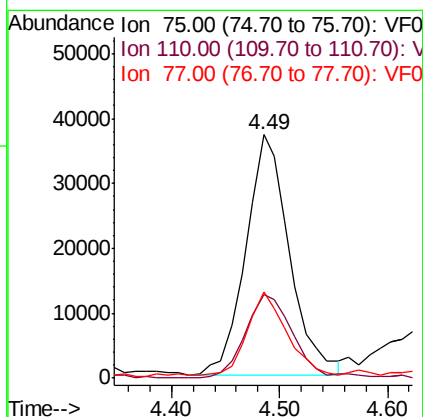
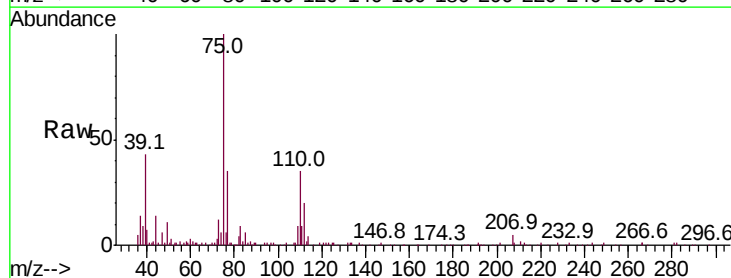
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0524SBS01

Tot Ion:113 Resp: 159852  
 Ion Ratio Lower Upper  
 113 100  
 111 95.4 79.4 119.2  
 192 16.0 13.4 20.2



#36  
 1,1-Dichloropropene  
 Concen: 21.991 ug/l  
 RT: 4.49 min Scan# 401  
 Delta R.T. -0.00 min  
 Lab File: VF062741.D  
 Acq: 24 May 2019 12:24

Tgt Ion: 75 Resp: 104436  
 Ion Ratio Lower Upper  
 75 100  
 110 34.5 19.7 59.1  
 77 35.2 26.3 39.5

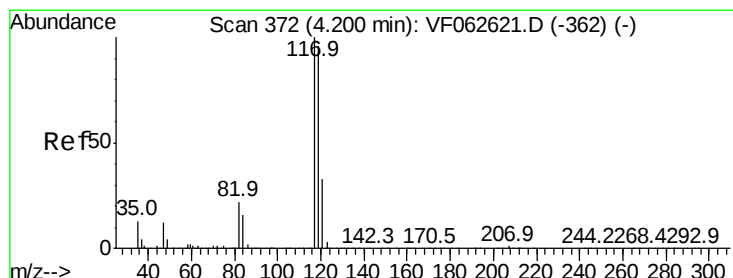
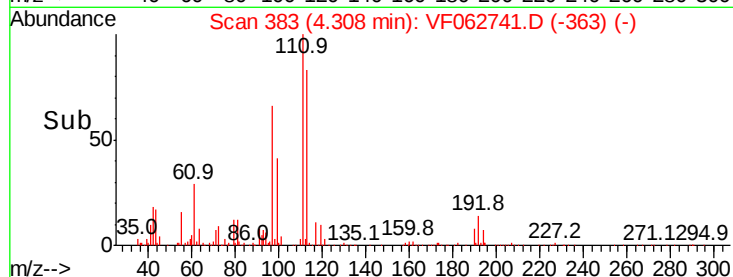
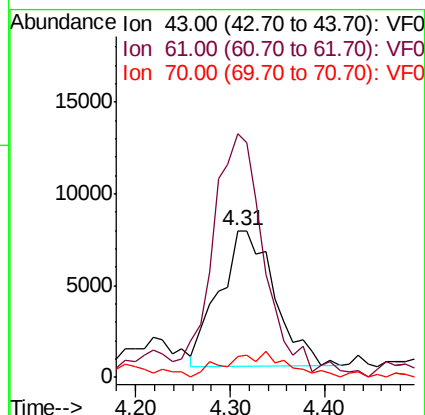
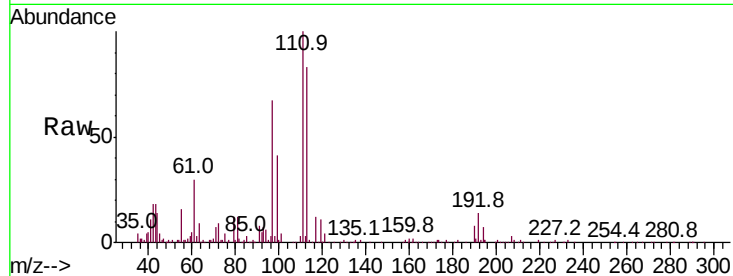




#37  
Ethyl Acetate  
Concen: 15.592 ug/l  
RT: 4.31 min Scan# 383  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

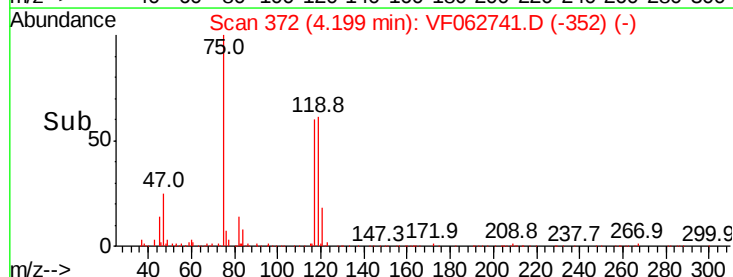
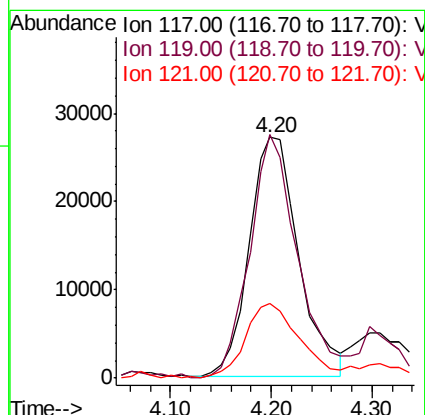
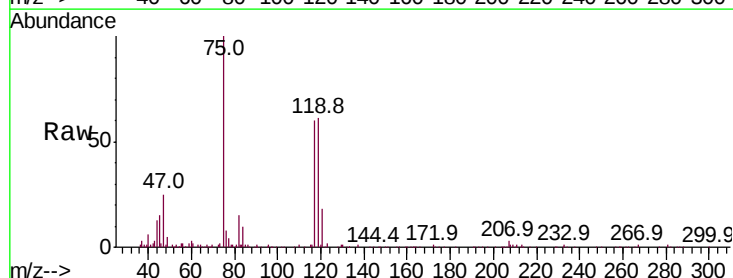
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

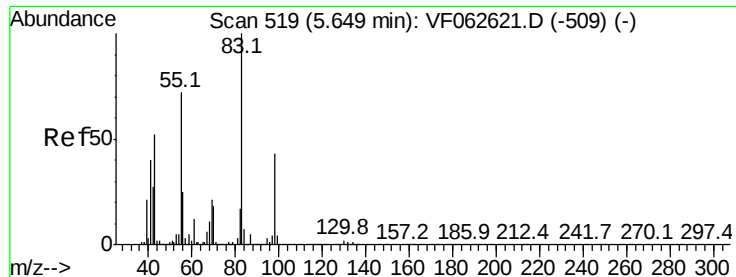
Tot Ion: 43 Resp: 30234  
Ion Ratio Lower Upper  
43 100  
61 165.7 76.9 115.3#  
70 13.8 8.8 13.2#



#38  
Carbon Tetrachloride  
Concen: 26.021 ug/l  
RT: 4.20 min Scan# 372  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion: 117 Resp: 92940  
Ion Ratio Lower Upper  
117 100  
119 101.1 76.7 115.1  
121 31.0 26.6 40.0

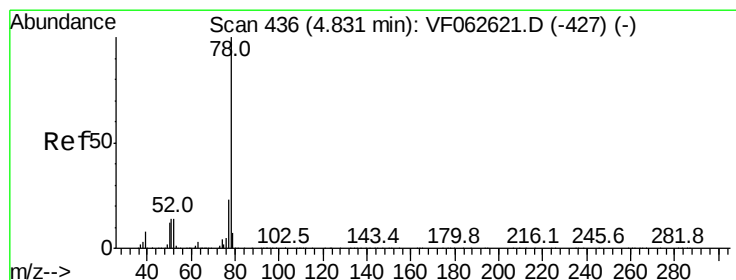
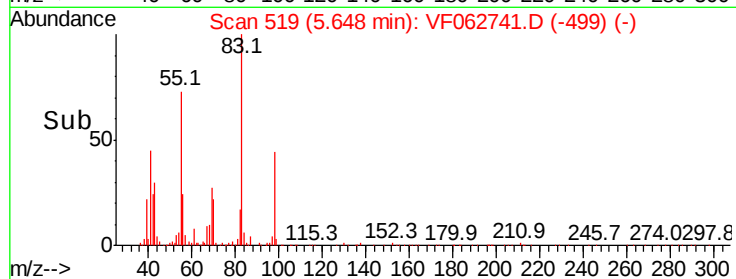
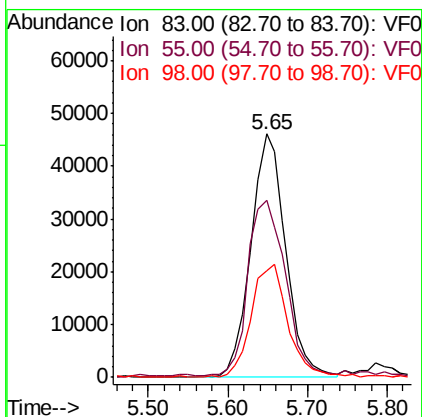
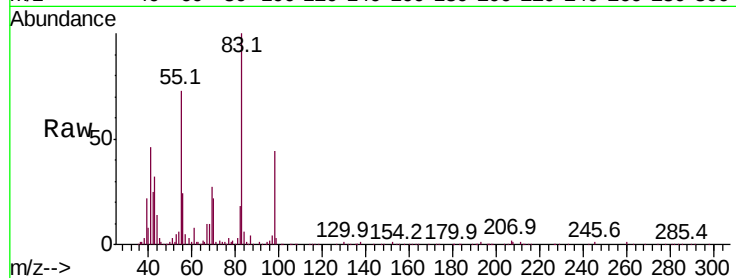




#39  
Methvlcvclohexane  
Concen: 24.321 ug/l  
RT: 5.65 min Scan# 519  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

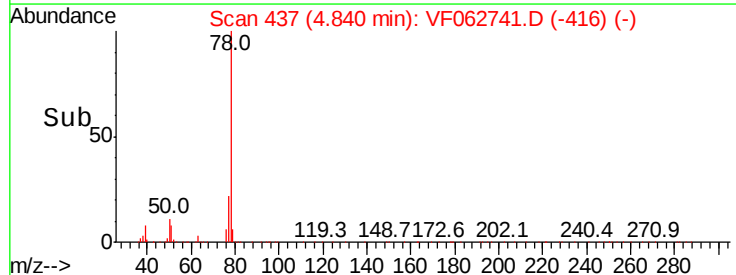
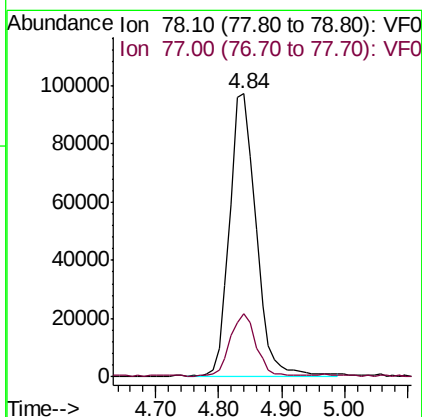
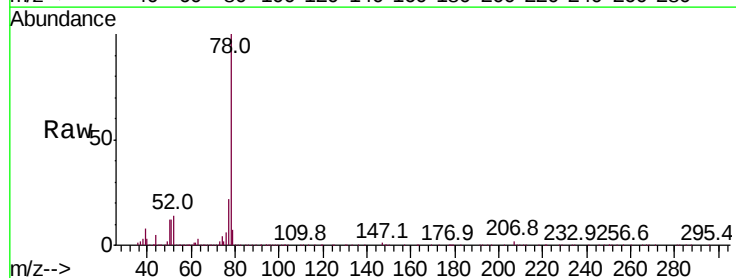
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

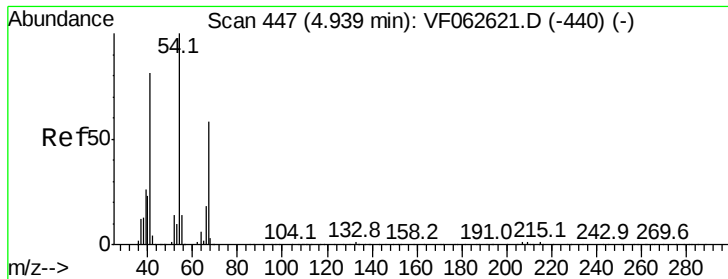
Tot Ion: 83 Resp: 138979  
Ion Ratio Lower Upper  
83 100  
55 72.8 57.9 86.9  
98 43.8 34.6 52.0



#40  
Benzene  
Concen: 21.651 ug/l  
RT: 4.84 min Scan# 437  
Delta R.T. 0.01 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion: 78 Resp: 280112  
Ion Ratio Lower Upper  
78 100  
77 22.5 18.2 27.2





#41

Methacrylonitrile

Concen: 17.758 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

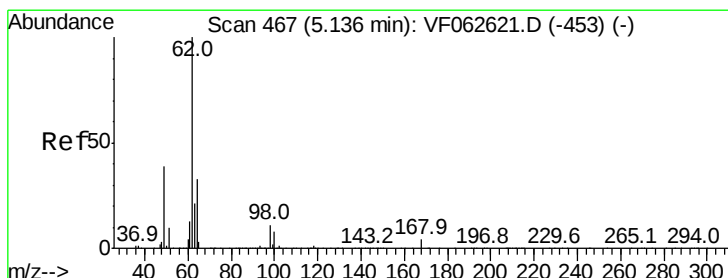
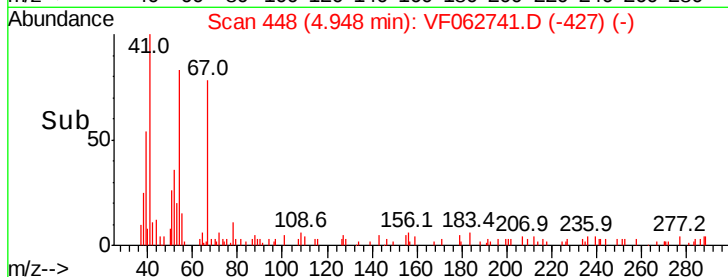
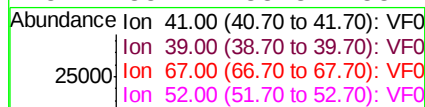
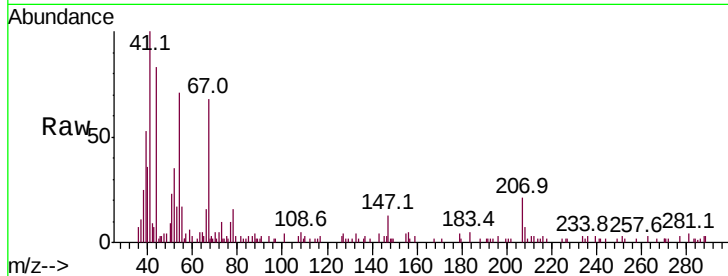
ClientSampleId :

VF0524SBS01

Tot Ion: 41 Resp: 18053

Ion Ratio Lower Upper

|    |      |      |       |
|----|------|------|-------|
| 41 | 100  |      |       |
| 39 | 53.0 | 42.2 | 63.2  |
| 67 | 68.2 | 56.4 | 84.6  |
| 52 | 35.4 | 38.8 | 58.2# |



#42

1,2-Dichloroethane

Concen: 18.121 ug/l

RT: 5.15 min Scan# 468

Delta R.T. 0.01 min

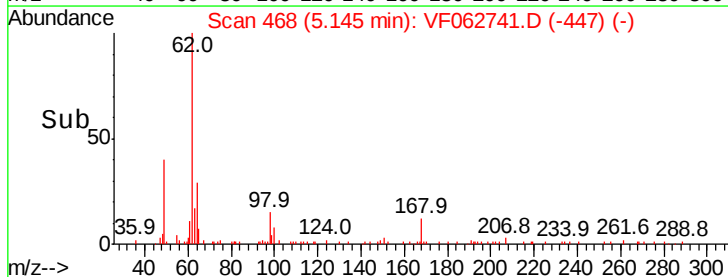
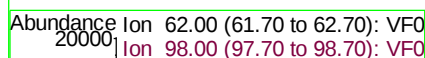
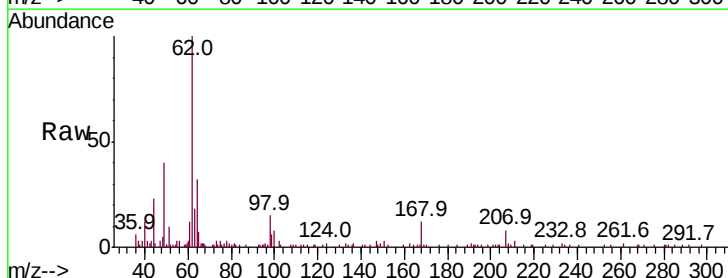
Lab File: VF062741.D

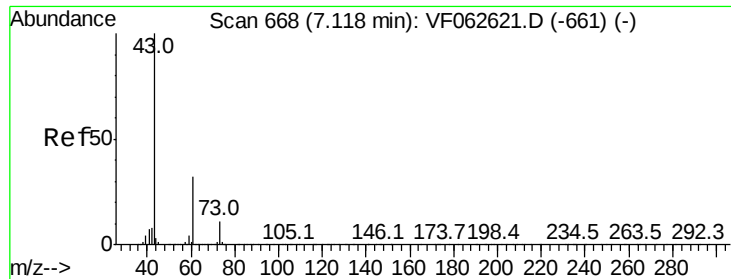
Acq: 24 May 2019 12:24

Tgt Ion: 62 Resp: 46751

Ion Ratio Lower Upper

|    |      |     |      |
|----|------|-----|------|
| 62 | 100  |     |      |
| 98 | 15.4 | 0.0 | 21.6 |





#43

Isopropyl Acetate

Concen: 16.214 ug/l

RT: 7.13 min Scan# 669

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

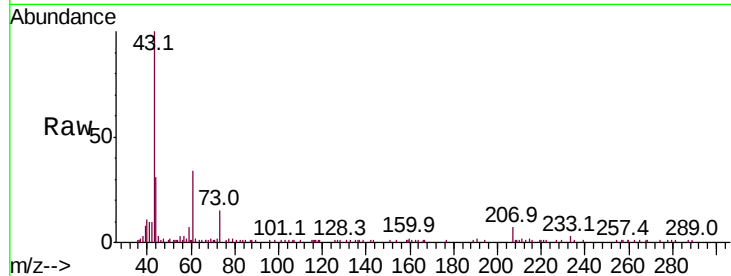
Tot Ion: 43 Resp: 40731

Ion Ratio Lower Upper

43 100

61 34.0 25.8 38.8

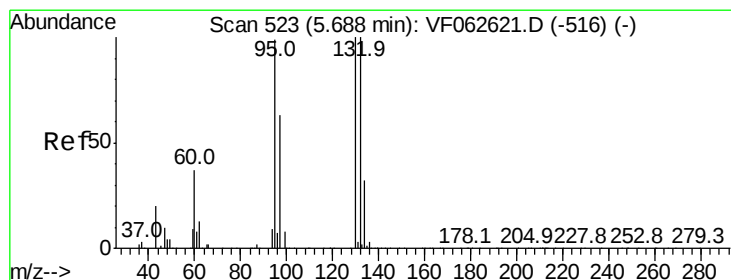
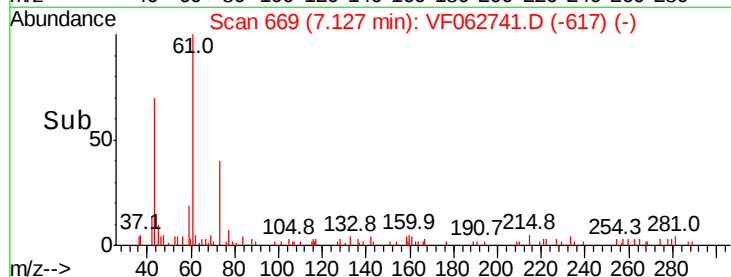
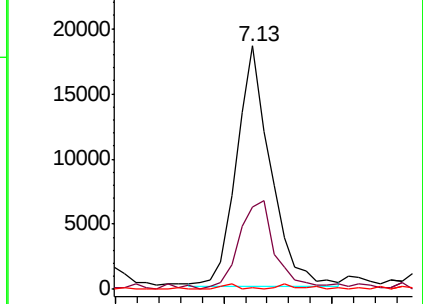
87 0.9 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 23.658 ug/l

RT: 5.70 min Scan# 524

Delta R.T. 0.01 min

Lab File: VF062741.D

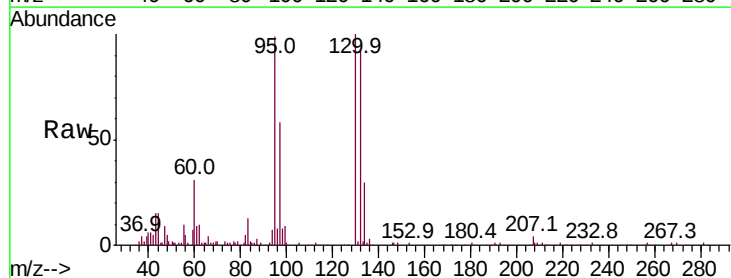
Acq: 24 May 2019 12:24

Tgt Ion: 130 Resp: 86025

Ion Ratio Lower Upper

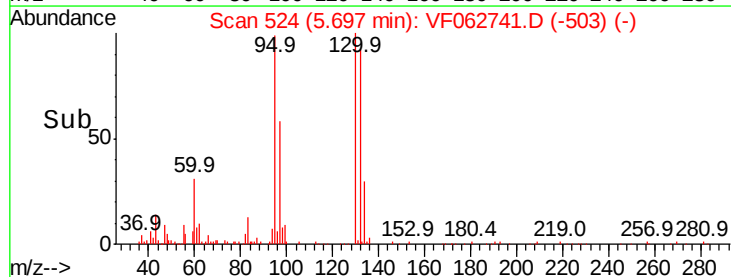
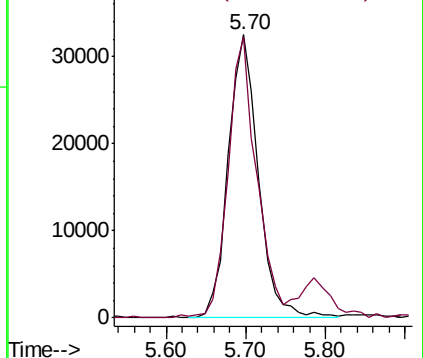
130 100

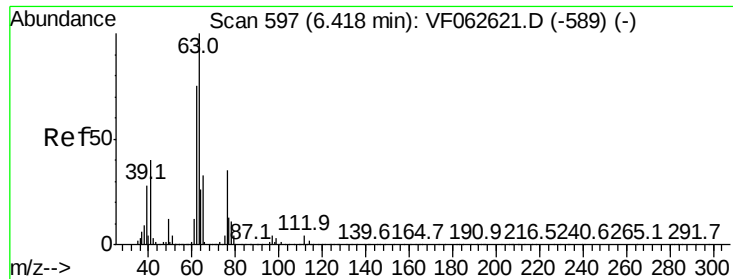
95 99.0 0.0 199.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 20.290 ug/l

RT: 6.42 min Scan# 597

Delta R.T. -0.00 min

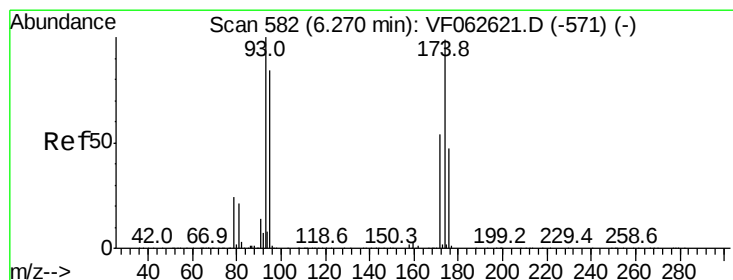
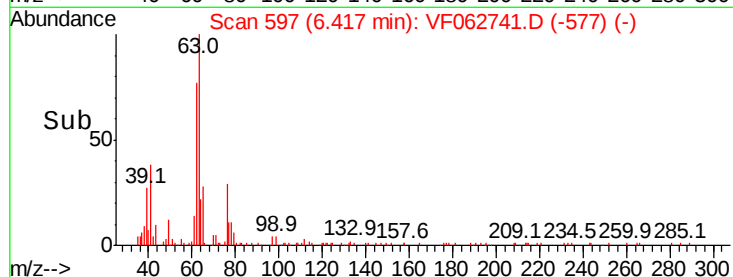
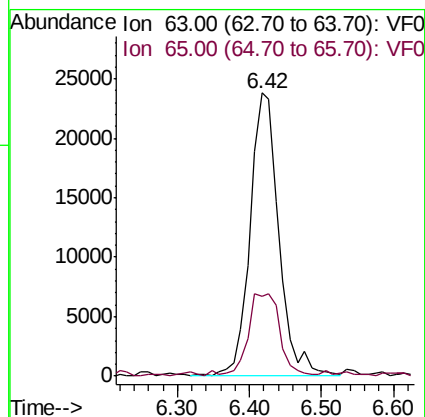
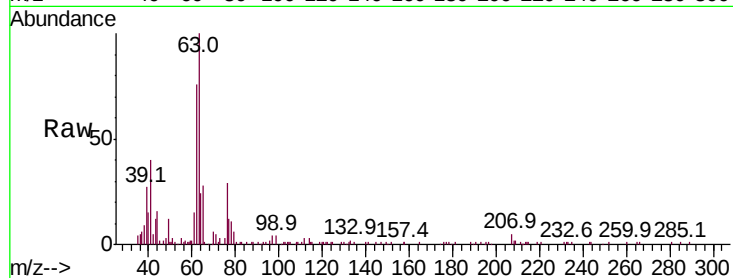
Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

Tot Ion: 63 Resp: 66266

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 65  | 28.3  | 26.3  | 39.5  |



#46

Dibromomethane

Concen: 19.802 ug/l

RT: 6.27 min Scan# 582

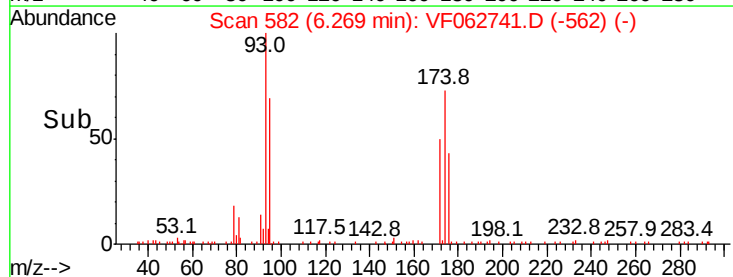
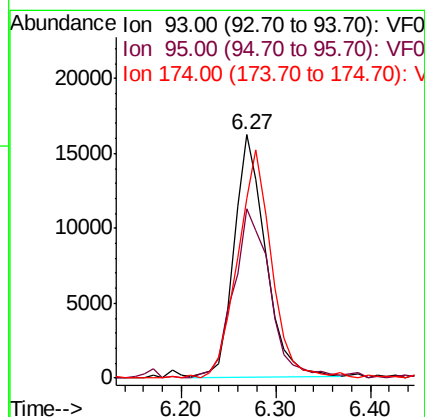
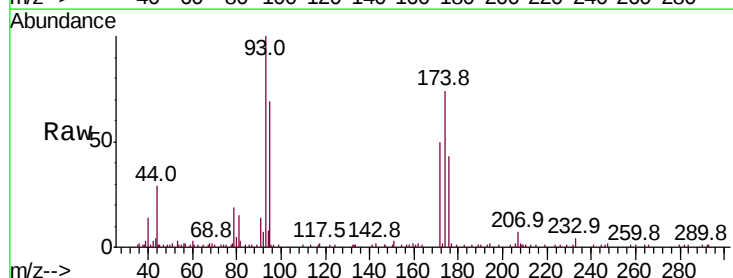
Delta R.T. -0.00 min

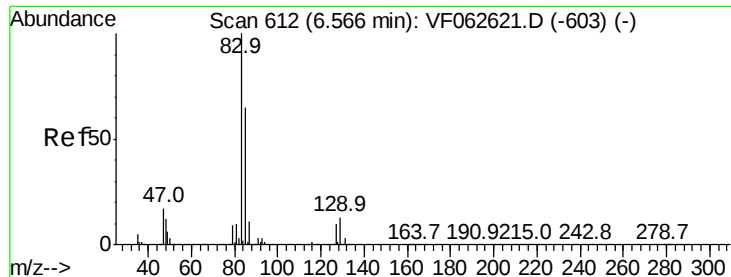
Lab File: VF062741.D

Acq: 24 May 2019 12:24

Tgt Ion: 93 Resp: 37376

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 93  | 100   |       |        |
| 95  | 69.7  | 67.4  | 101.2  |
| 174 | 74.0  | 79.4  | 119.2# |





#47

Bromodichloromethane

Concen: 19.172 ug/l

RT: 6.56 min Scan# 612

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

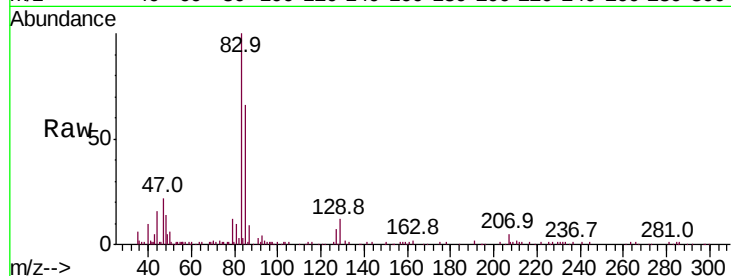
Tot Ion: 83 Resp: 75123

Ion Ratio Lower Upper

83 100

85 66.4 52.0 78.0

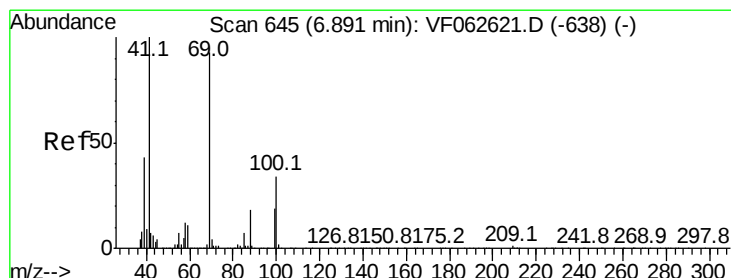
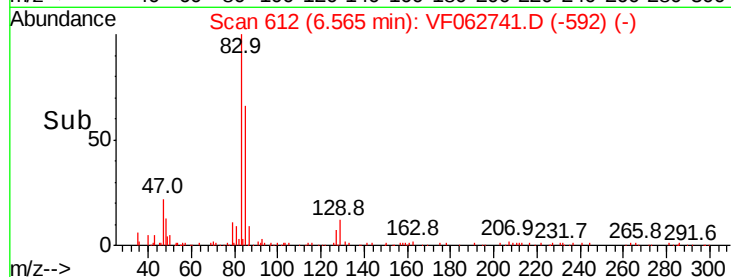
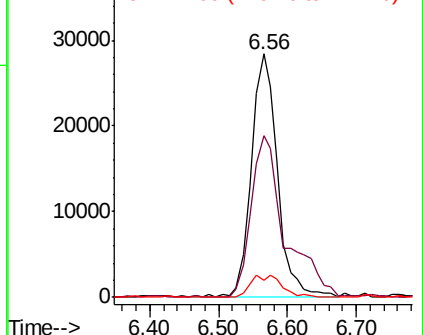
127 7.3 7.7 11.5#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 15.359 ug/l

RT: 6.89 min Scan# 645

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

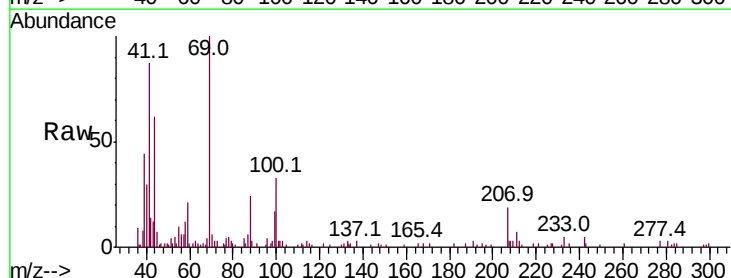
Tgt Ion: 41 Resp: 20167

Ion Ratio Lower Upper

41 100

69 114.7 74.2 111.2#

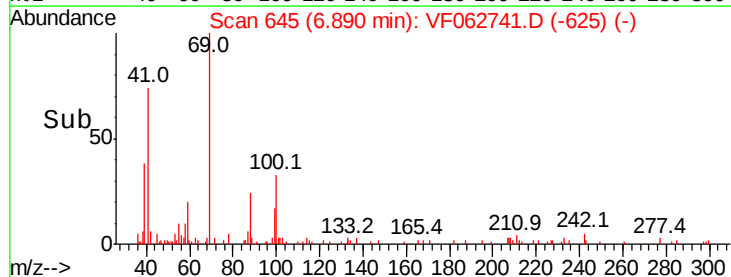
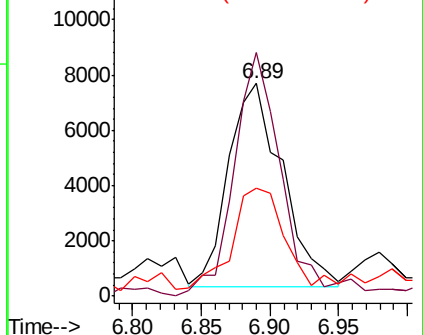
39 50.6 34.2 51.4

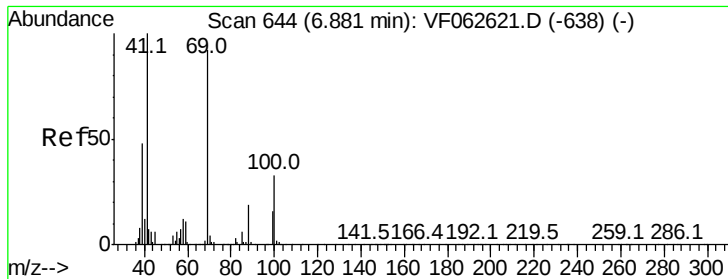


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

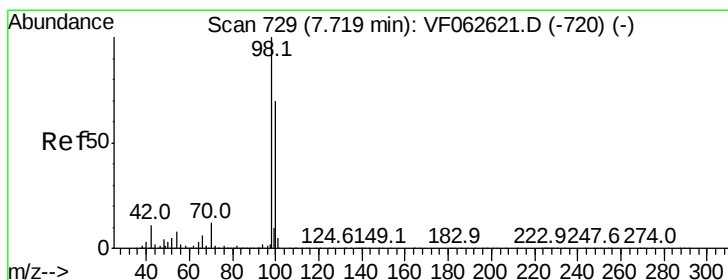
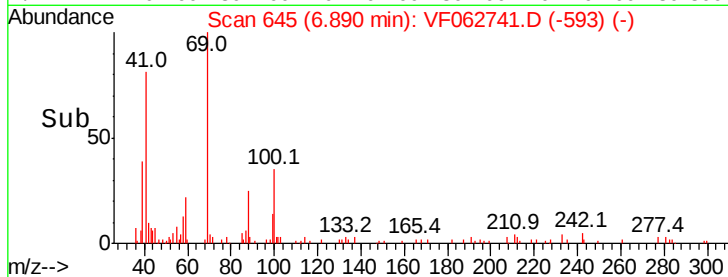
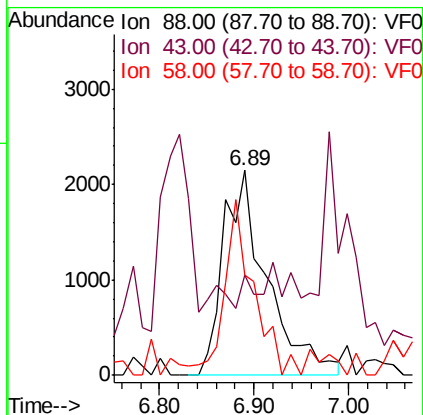
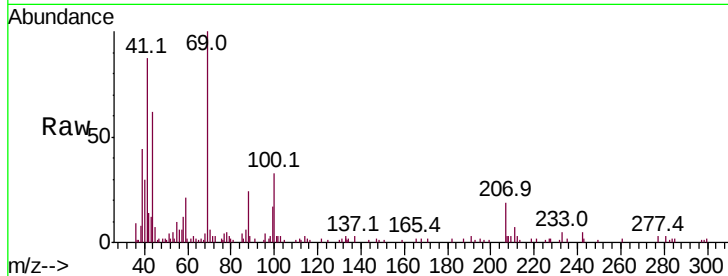




#49  
1,4-Dioxane  
Concen: 409.636 ug/l  
RT: 6.89 min Scan# 645  
Delta R.T. 0.01 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

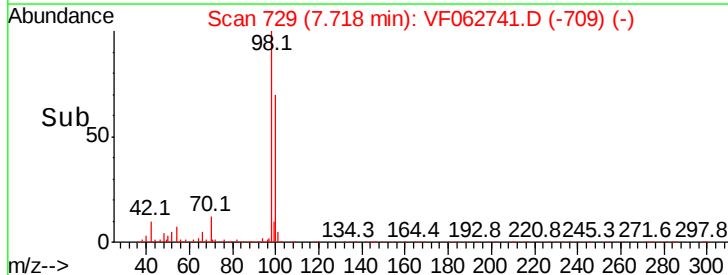
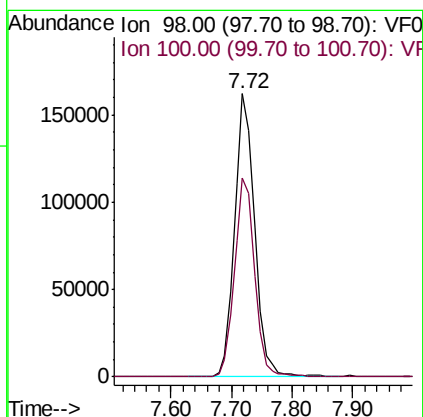
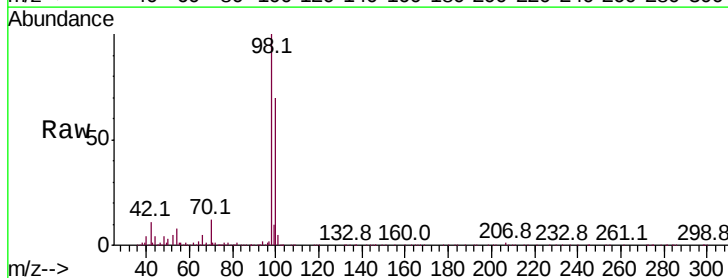
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

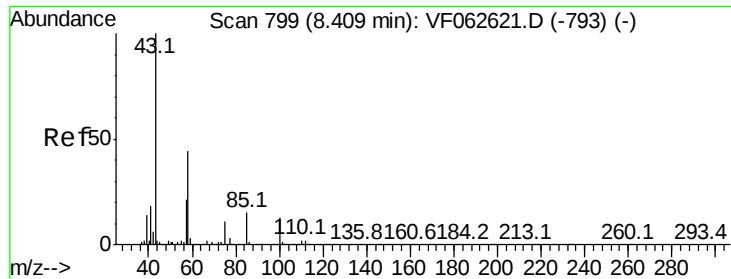
Tot Ion: 88 Resp: 6889  
Ion Ratio Lower Upper  
88 100  
43 49.1 30.0 45.0#  
58 49.2 51.1 76.7#



#50  
Toluene-d8  
Concen: 44.035 ug/l  
RT: 7.72 min Scan# 729  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion: 98 Resp: 372871  
Ion Ratio Lower Upper  
98 100  
100 70.4 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 80.310 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

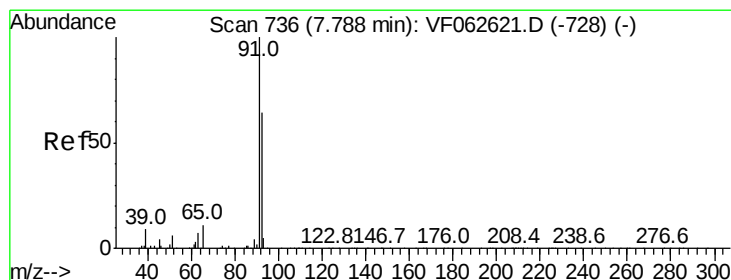
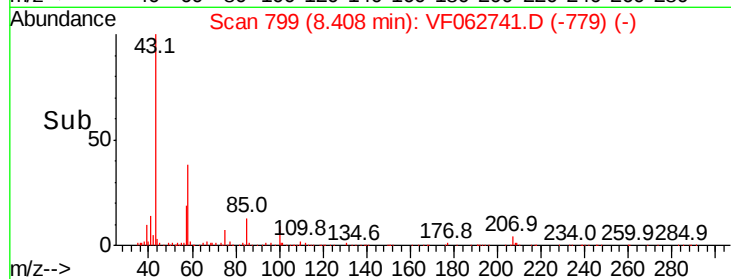
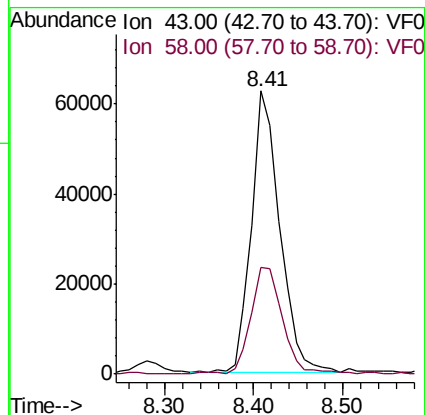
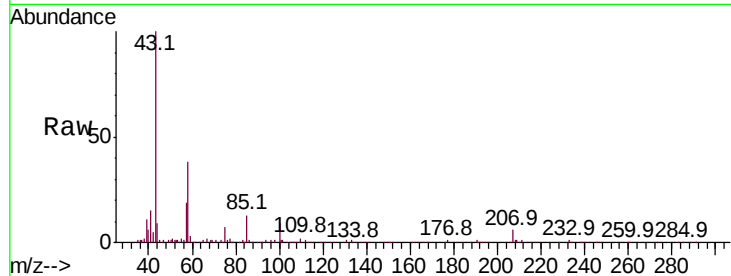
VF0524SBS01

Tot Ion: 43 Resp: 137903

Ion Ratio Lower Upper

43 100

58 37.7 34.9 52.3



#52

Toluene

Concen: 20.148 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF062741.D

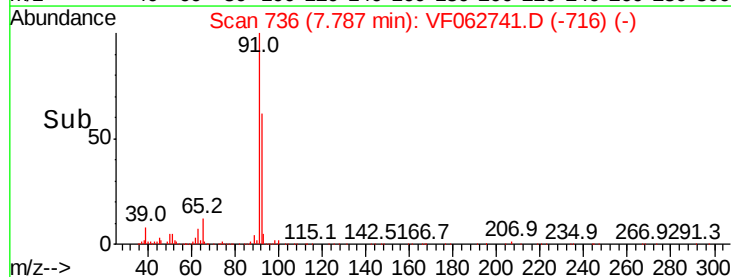
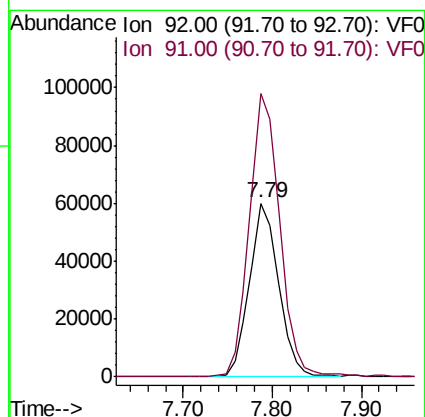
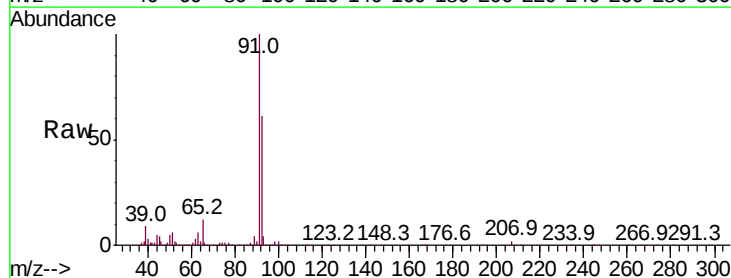
Acq: 24 May 2019 12:24

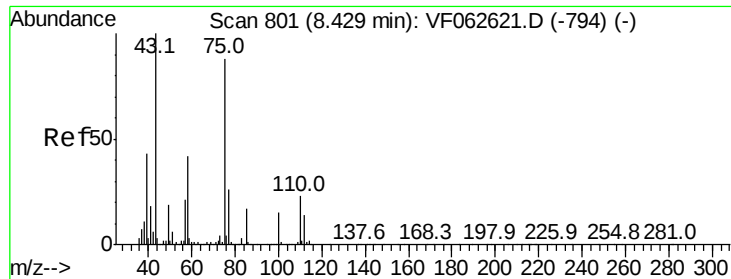
Tgt Ion: 92 Resp: 136709

Ion Ratio Lower Upper

92 100

91 163.1 125.4 188.0

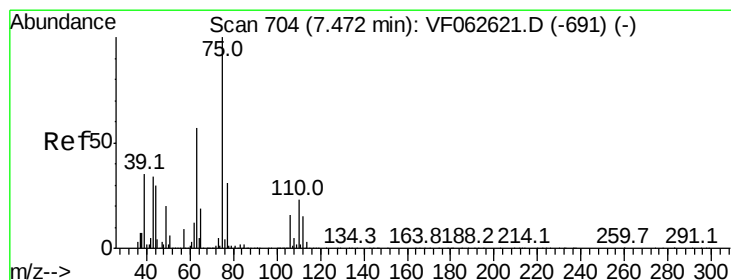
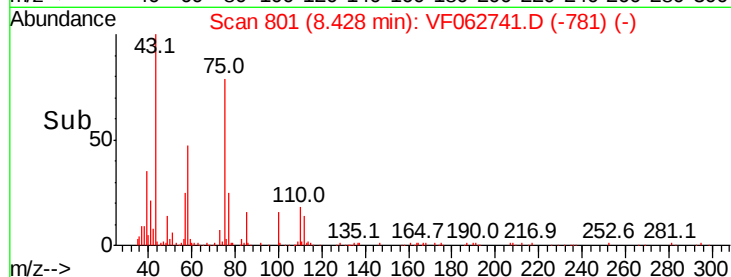
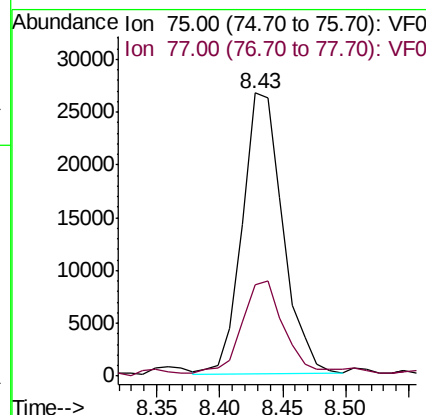
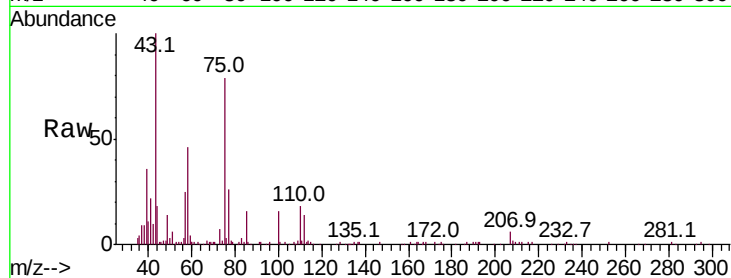




#53  
t-1,3-Dichloropropene  
Concen: 18.484 ug/l  
RT: 8.43 min Scan# 801  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

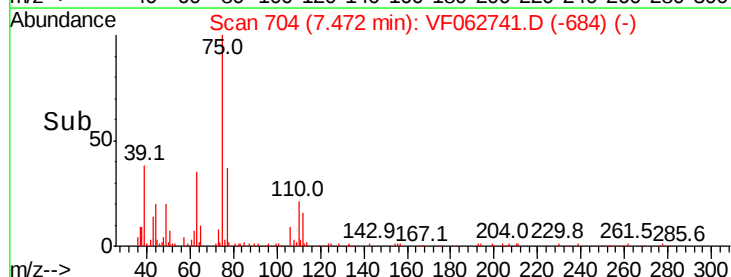
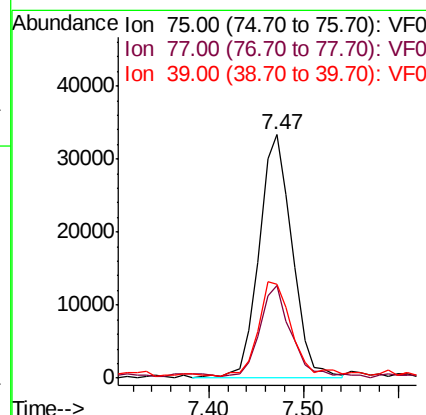
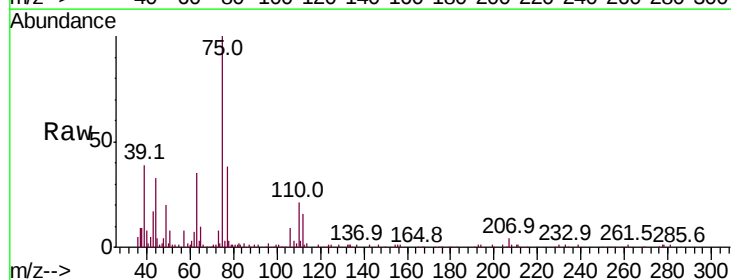
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

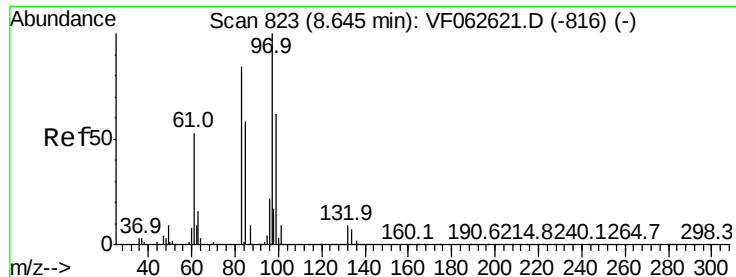
Tot Ion: 75 Resp: 59254  
Ion Ratio Lower Upper  
75 100  
77 32.4 24.2 36.4



#54  
cis-1,3-Dichloropropene  
Concen: 18.225 ug/l  
RT: 7.47 min Scan# 704  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion: 75 Resp: 81783  
Ion Ratio Lower Upper  
75 100  
77 38.0 25.3 37.9#  
39 38.5 28.2 42.2





#55

1,1,2-Trichloroethane

Concen: 19.133 ug/l

RT: 8.64 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

Tot Ion: 97 Resp: 38438

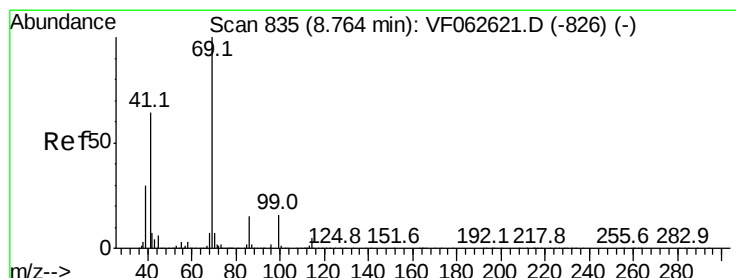
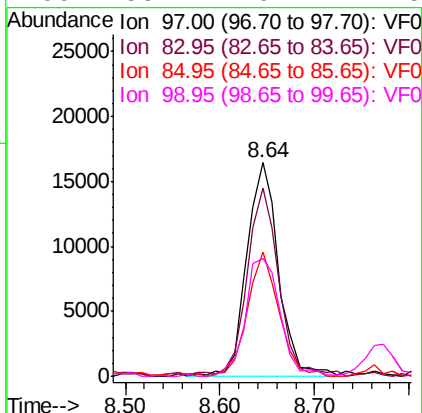
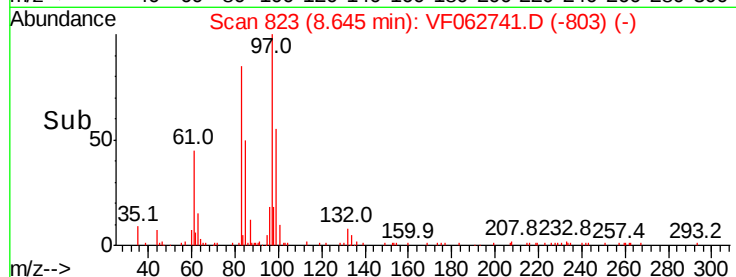
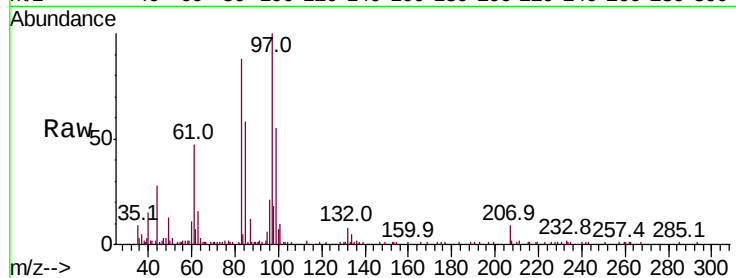
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 87.9  | 67.3  | 100.9 |
| 85  | 58.0  | 46.6  | 69.8  |
| 99  | 55.4  | 49.7  | 74.5  |

97 100

83 87.9 67.3 100.9

85 58.0 46.6 69.8

99 55.4 49.7 74.5



#56

Ethyl methacrylate

Concen: 15.069 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

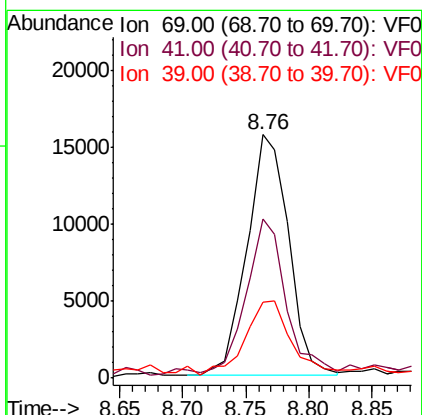
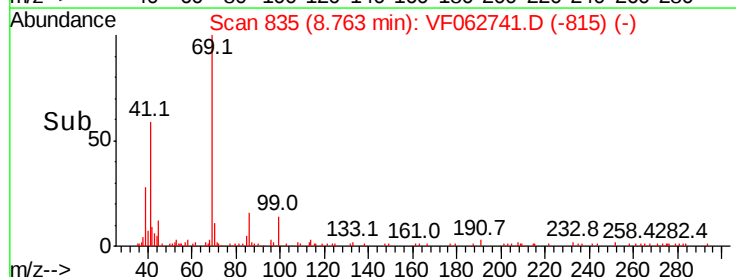
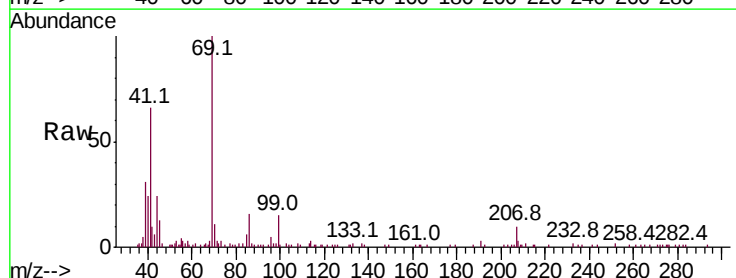
Tgt Ion: 69 Resp: 36068

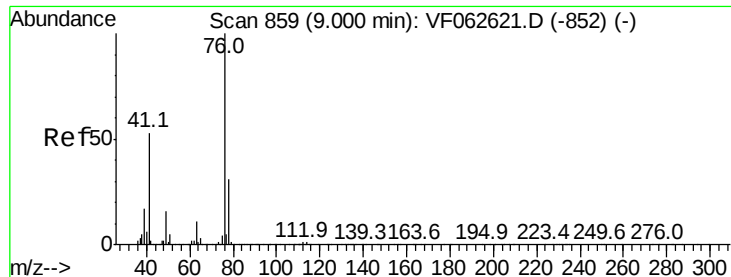
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 65.6  | 51.4  | 77.2  |
| 39  | 31.0  | 23.6  | 35.4  |

69 100

41 65.6 51.4 77.2

39 31.0 23.6 35.4





#57

1,3-Dichloropropane

Concen: 18.235 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.01 min

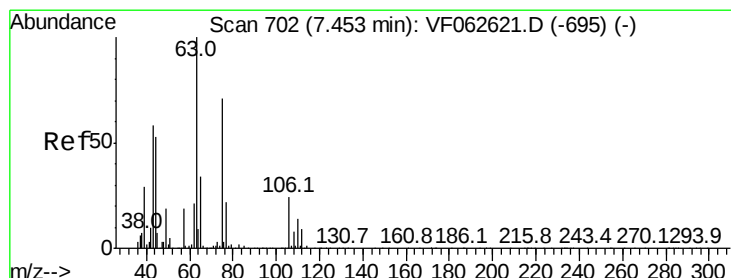
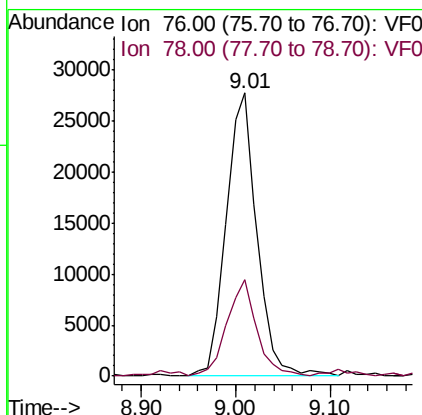
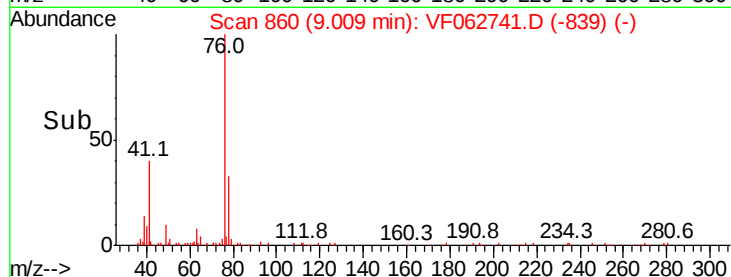
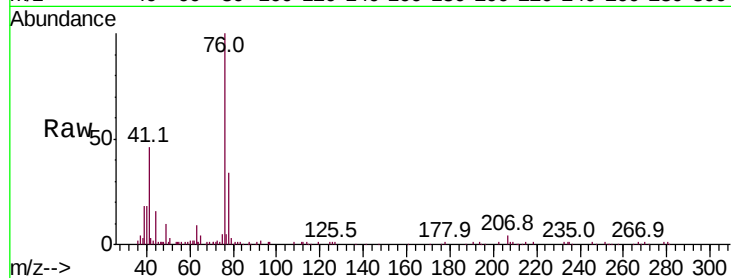
Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

Tot Ion: 76 Resp: 62398

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 34.3  | 25.4  | 38.0  |



#58

2-Chloroethyl Vinyl ether

Concen: 44.856 ug/l

RT: 7.46 min Scan# 703

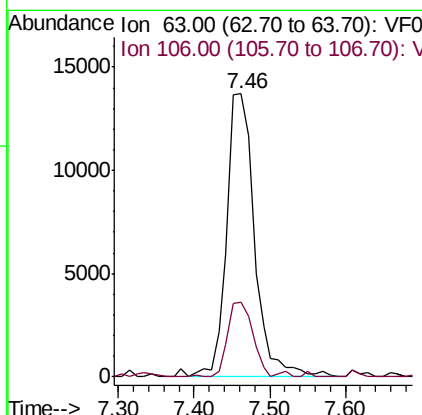
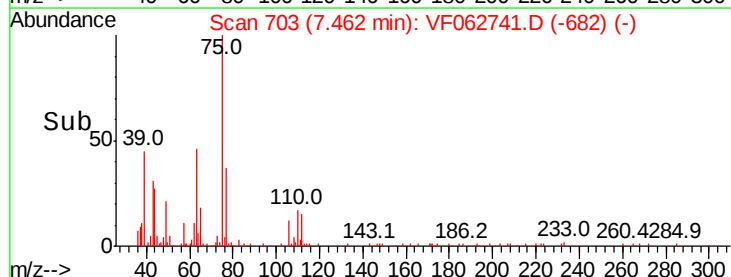
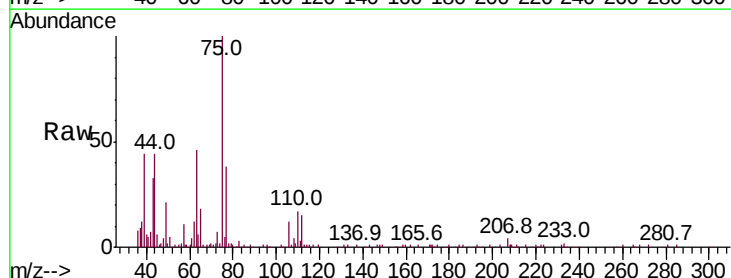
Delta R.T. 0.01 min

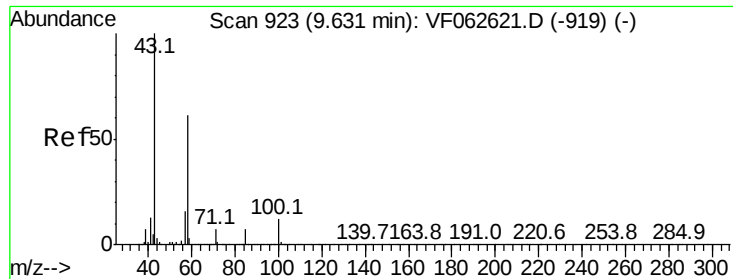
Lab File: VF062741.D

Acq: 24 May 2019 12:24

Tgt Ion: 63 Resp: 34946

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 106 | 26.5  | 19.1  | 28.7  |

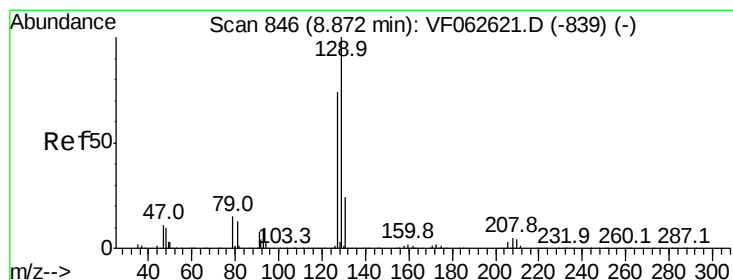
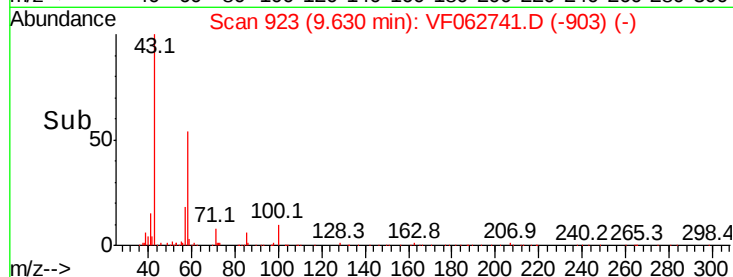
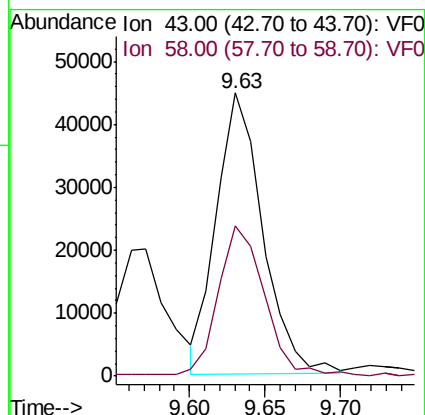
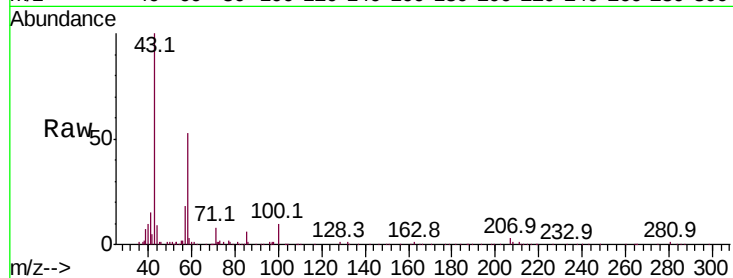




#59  
2-Hexanone  
Concen: 72.785 ug/l  
RT: 9.63 min Scan# 923  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

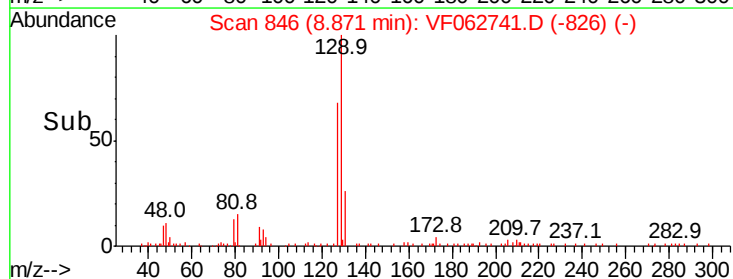
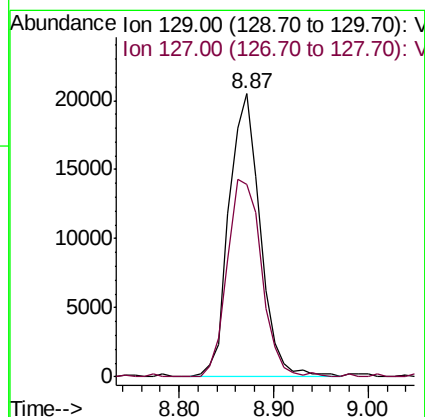
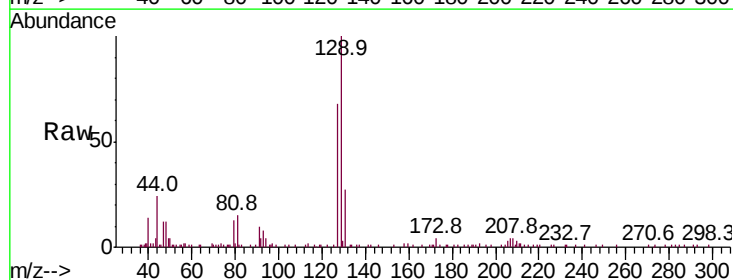
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

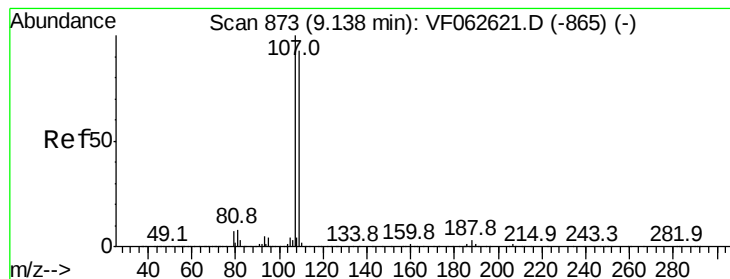
Tot Ion: 43 Resp: 95431  
Ion Ratio Lower Upper  
43 100  
58 53.2 28.1 84.4



#60  
Dibromochloromethane  
Concen: 17.929 ug/l  
RT: 8.87 min Scan# 846  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion: 129 Resp: 46946  
Ion Ratio Lower Upper  
129 100  
127 66.0 37.2 111.6





#61

1,2-Dibromoethane

Concen: 18.415 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

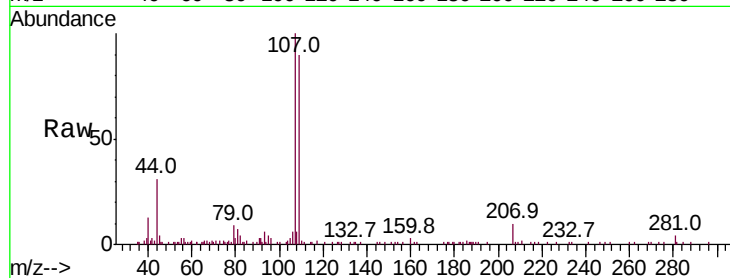
VF0524SBS01

Tot Ion:107 Resp: 39296

Ion Ratio Lower Upper

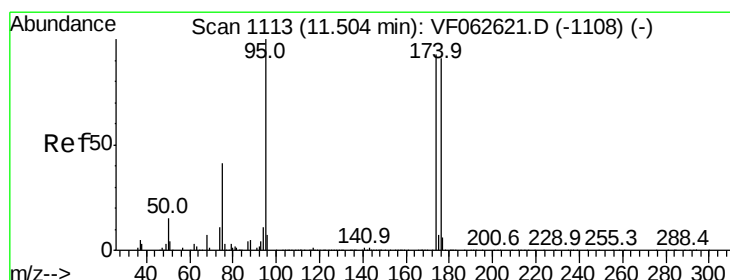
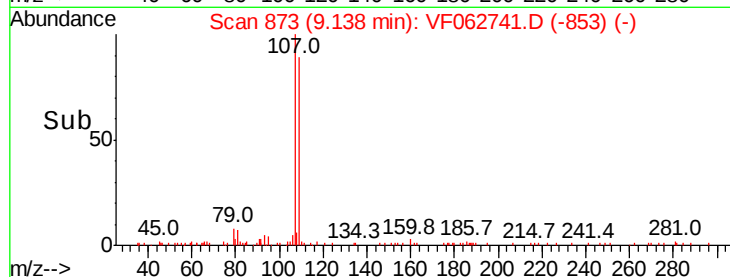
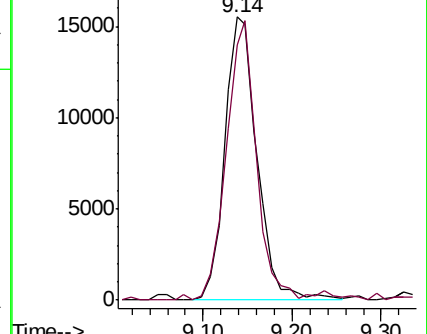
107 100

109 90.1 74.8 112.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 41.787 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

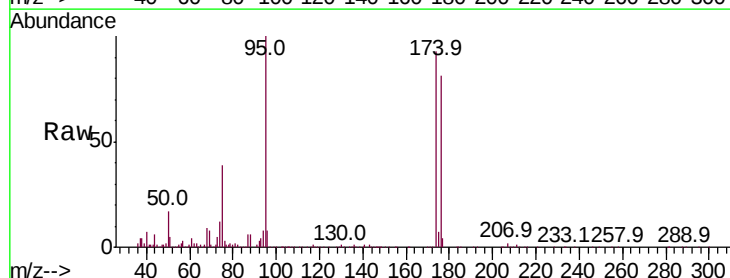
Tgt Ion: 95 Resp: 134198

Ion Ratio Lower Upper

95 100

174 93.1 0.0 185.6

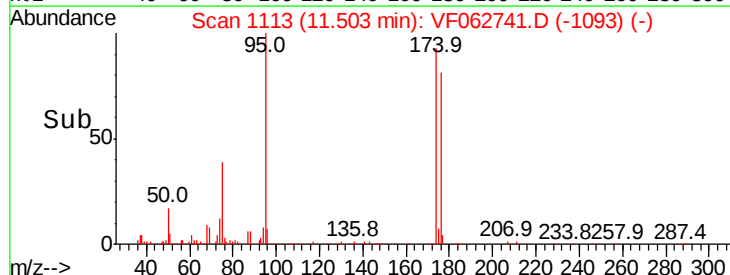
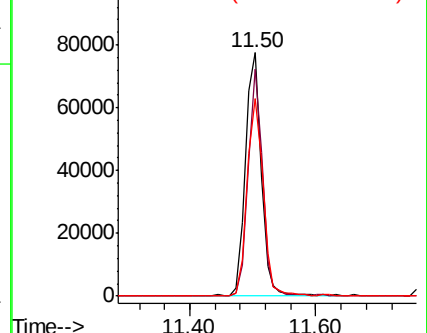
176 81.0 0.0 182.4



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: 9.92 min Scan# 952

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

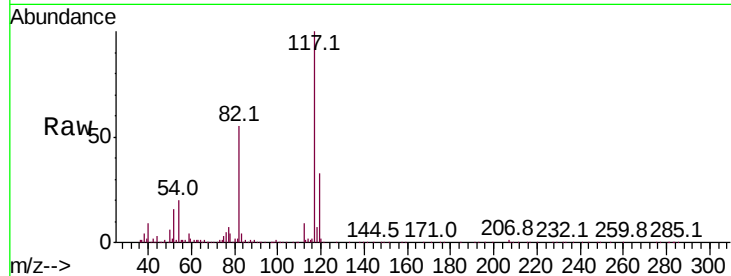
Tot Ion:117 Resp: 328189

Ion Ratio Lower Upper

117 100

82 54.9 43.3 64.9

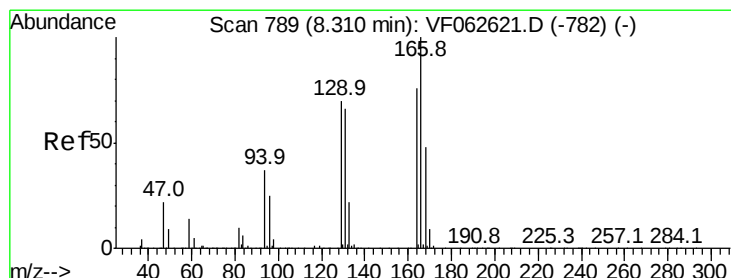
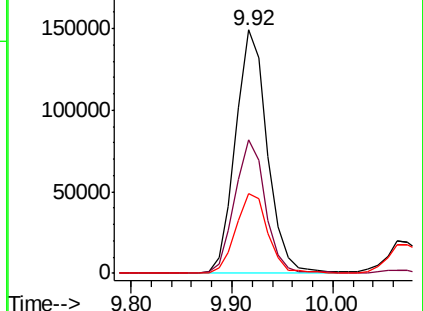
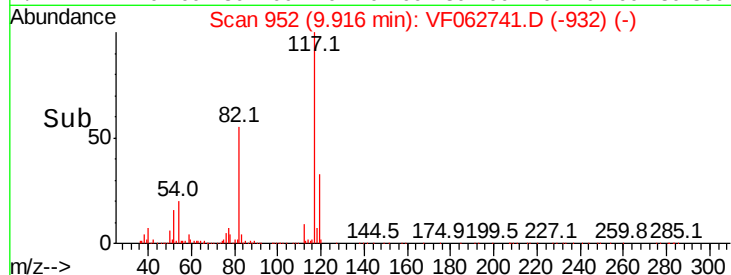
119 32.5 27.4 41.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 23.574 ug/l

RT: 8.32 min Scan# 790

Delta R.T. 0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Tgt Ion:164 Resp: 61293

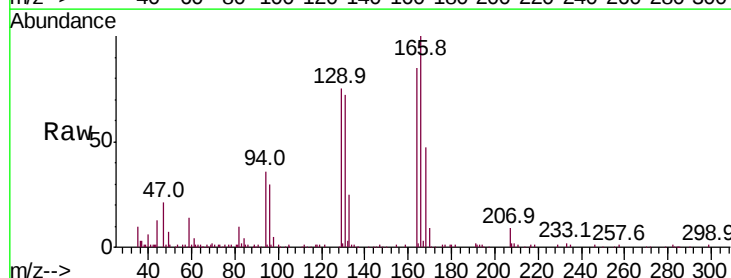
Ion Ratio Lower Upper

164 100

166 117.3 105.5 158.3

129 88.3 73.8 110.6

131 84.5 69.5 104.3

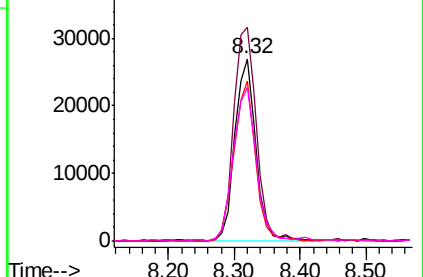
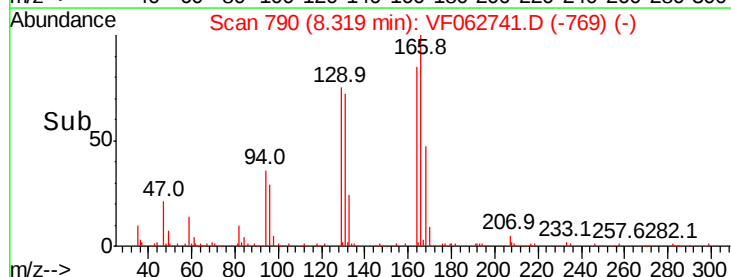


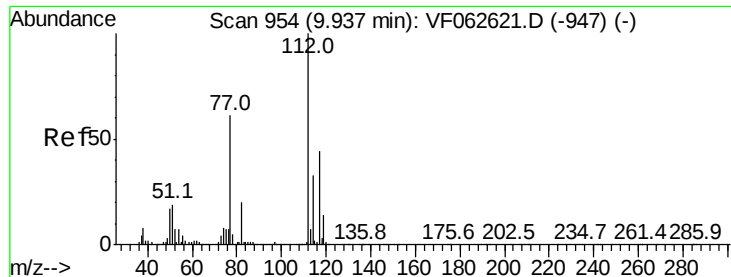
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

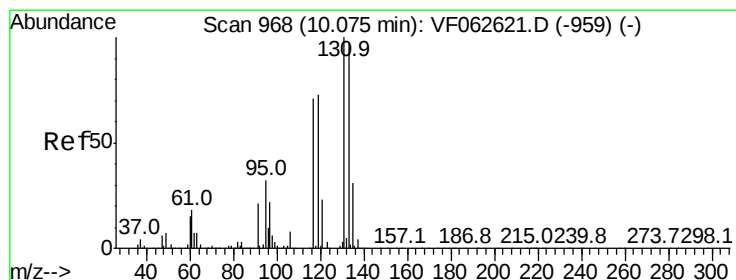
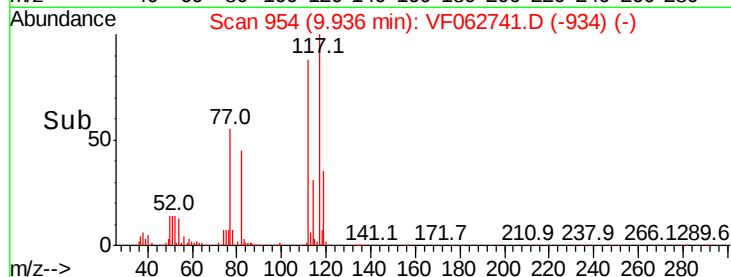
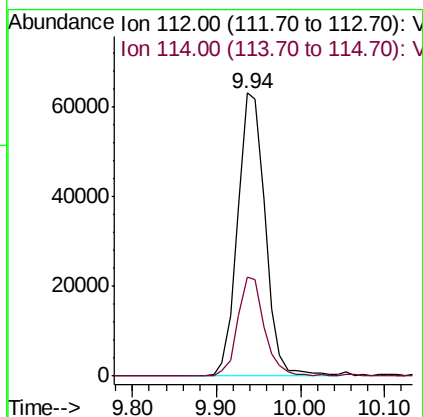
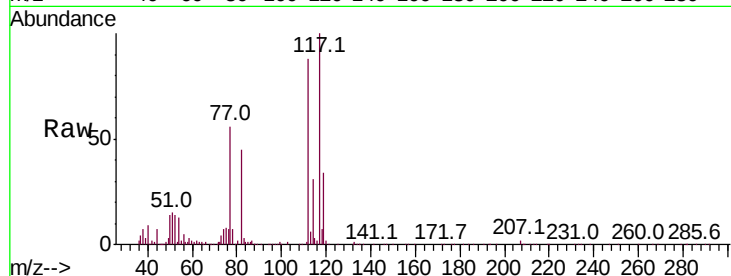




#65  
Chlorobenzene  
Concen: 22.386 ug/l  
RT: 9.94 min Scan# 954  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

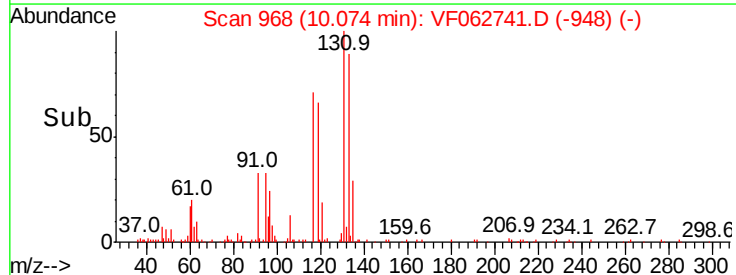
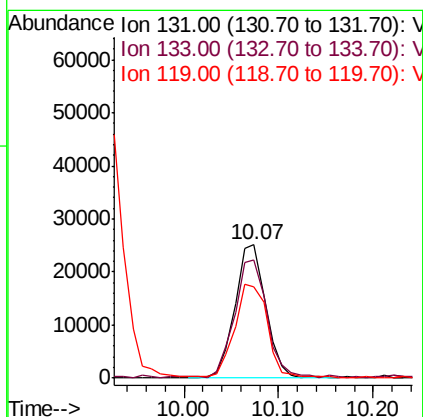
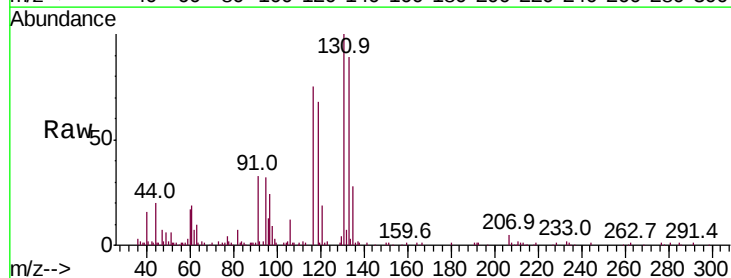
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

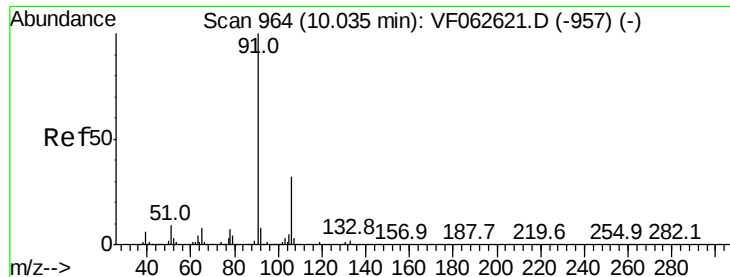
Tot Ion:112 Resp: 144298  
Ion Ratio Lower Upper  
112 100  
114 35.2 26.8 40.2



#66  
1,1,1,2-Tetrachloroethane  
Concen: 22.086 ug/l  
RT: 10.07 min Scan# 968  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion:131 Resp: 57151  
Ion Ratio Lower Upper  
131 100  
133 88.7 48.5 145.5  
119 68.3 36.8 110.4





#67

Ethyl Benzene

Concen: 23.033 ug/l

RT: 10.03 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

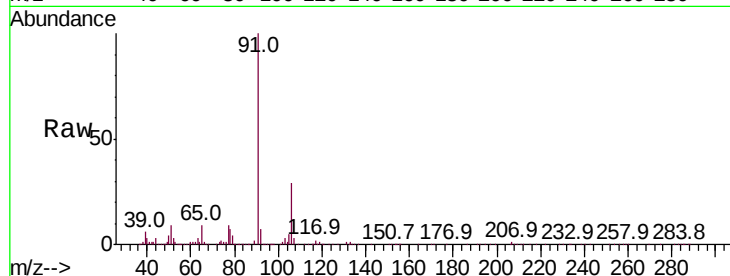
VF0524SBS01

Tot Ion: 91 Resp: 257929

Ion Ratio Lower Upper

91 100

106 28.6 25.8 38.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

10.03

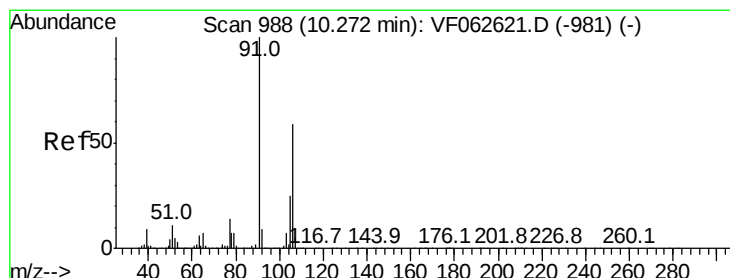
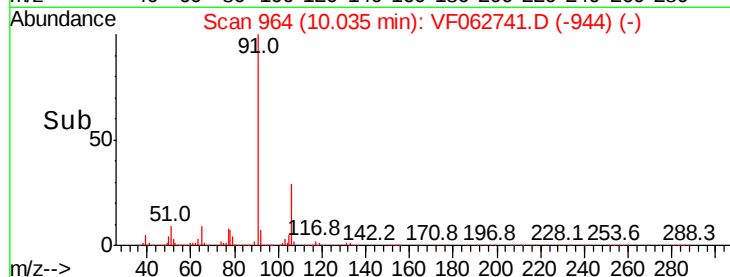
100000

50000

0

Time-->

9.90 10.00 10.10 10.20



#68

m/p-Xylenes

Concen: 44.323 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF062741.D

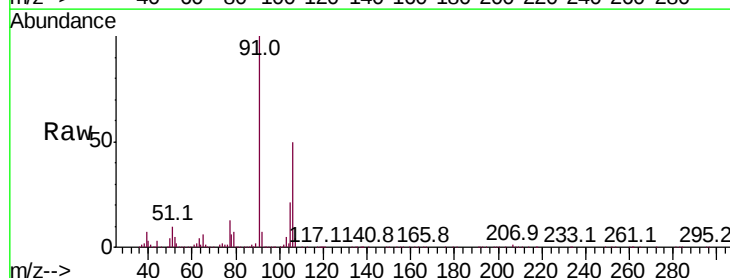
Acq: 24 May 2019 12:24

Tgt Ion:106 Resp: 186542

Ion Ratio Lower Upper

106 100

91 200.8 136.9 205.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

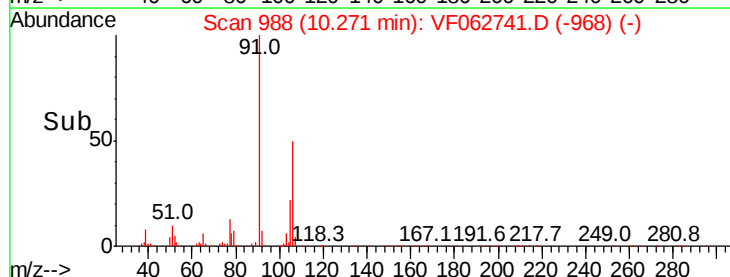
100000

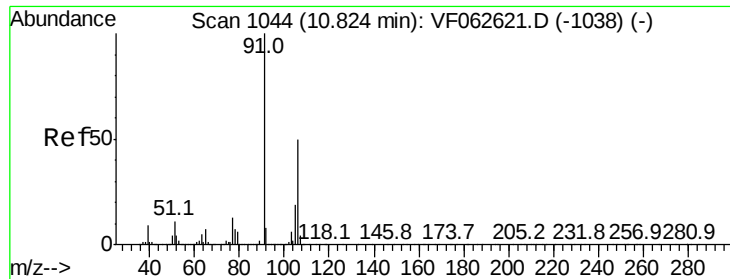
50000

0

Time-->

10.10 10.20 10.30 10.40

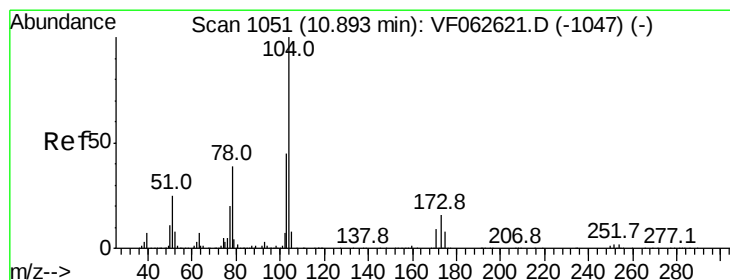
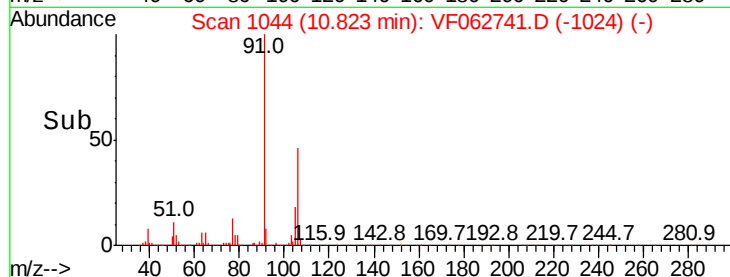
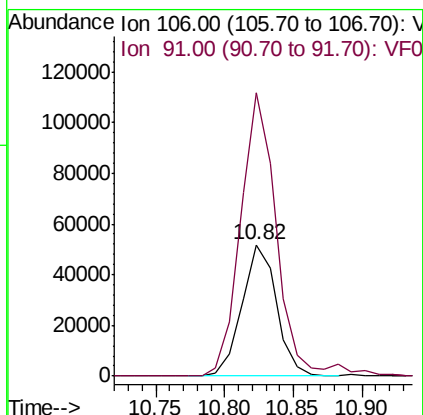
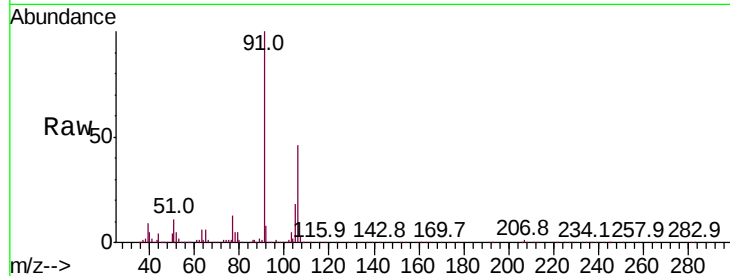




#69  
o-Xylene  
Concen: 21.017 ug/l  
RT: 10.82 min Scan# 1044  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

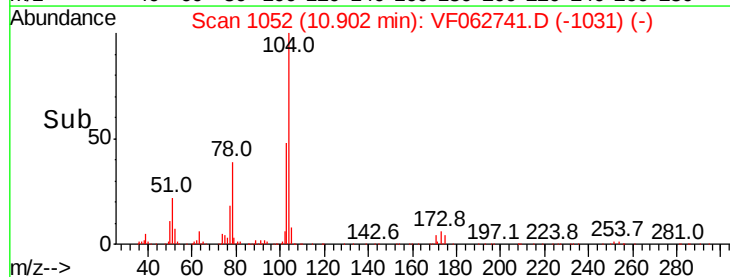
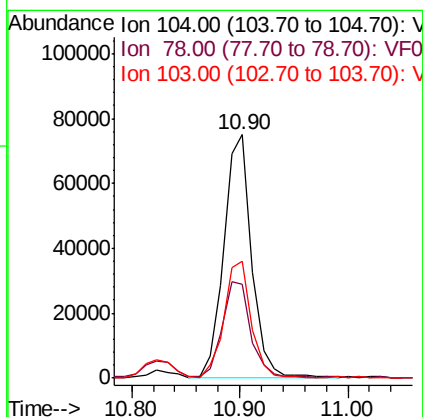
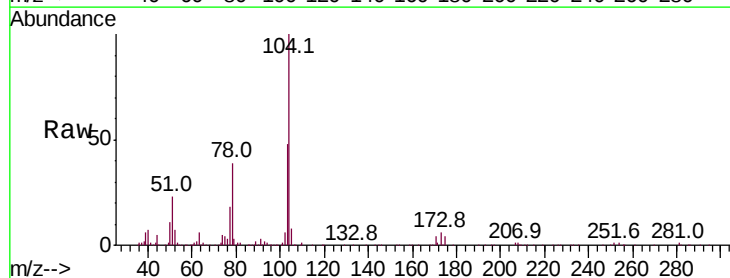
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

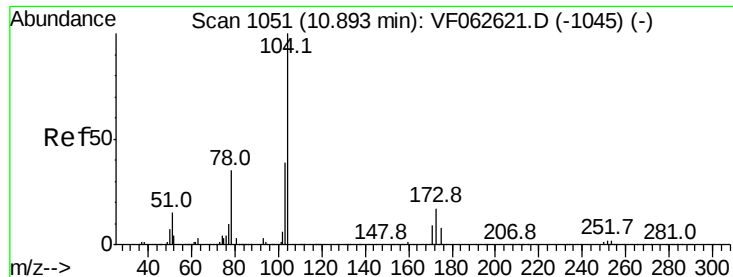
Tot Ion:106 Resp: 91109  
Ion Ratio Lower Upper  
106 100  
91 215.8 100.2 300.5



#70  
Styrene  
Concen: 20.207 ug/l  
RT: 10.90 min Scan# 1052  
Delta R.T. 0.01 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

Tgt Ion:104 Resp: 133140  
Ion Ratio Lower Upper  
104 100  
78 38.6 31.9 47.9  
103 47.8 36.1 54.1





#71

Bromoform

Concen: 19.487 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

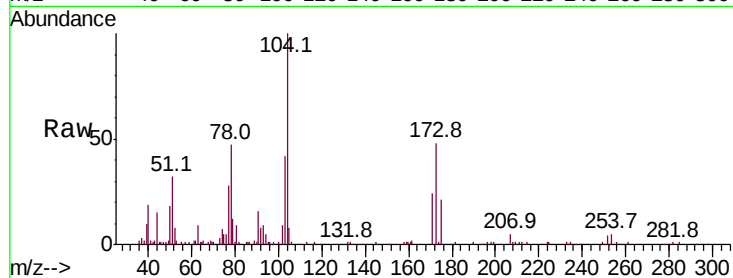
Tot Ion:173 Resp: 25256

Ion Ratio Lower Upper

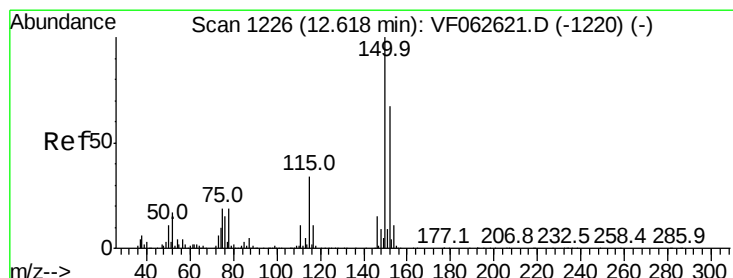
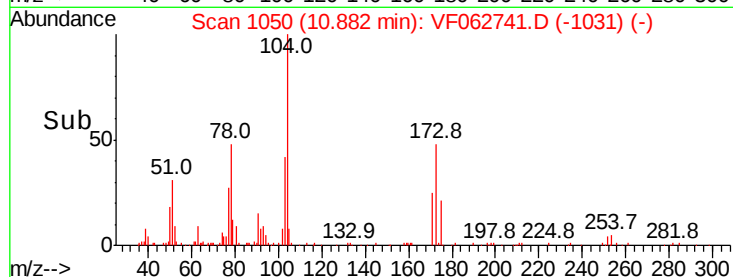
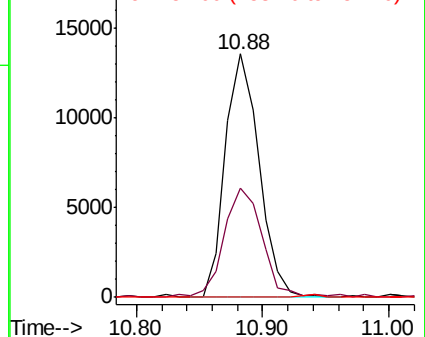
173 100

175 44.8 25.3 75.9

254 0.0 0.2 0.2#



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# 1226

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

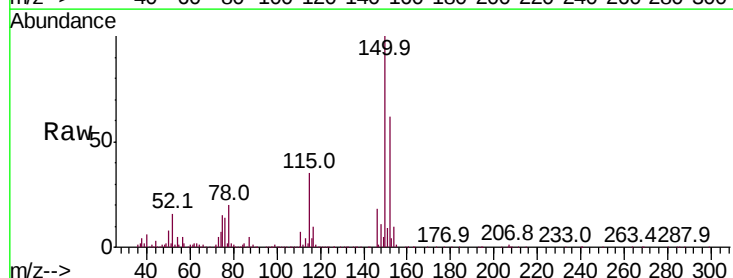
Tgt Ion:152 Resp: 157278

Ion Ratio Lower Upper

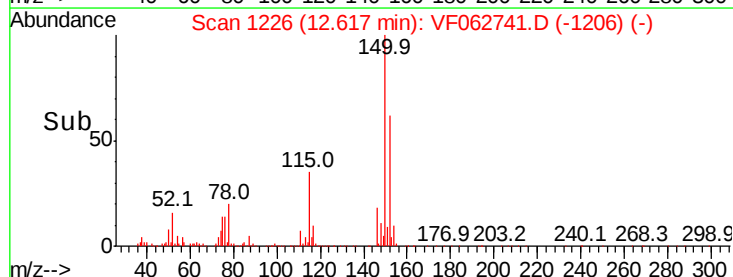
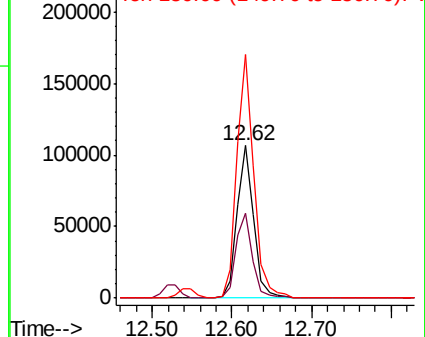
152 100

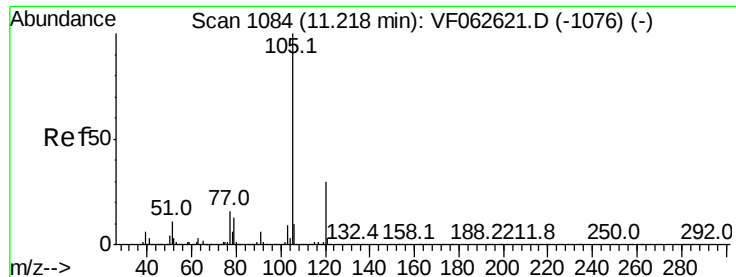
115 55.8 25.2 75.6

150 160.0 0.0 306.2



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: 23.157 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

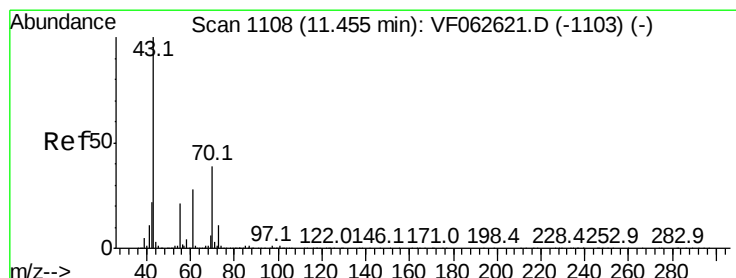
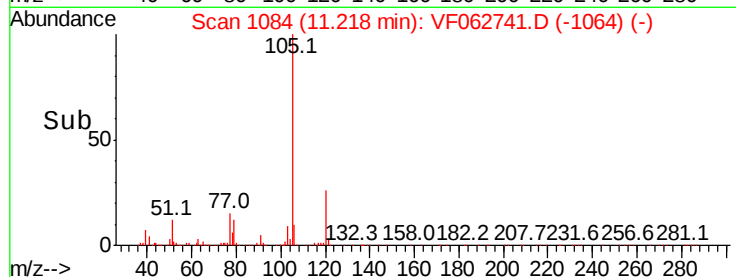
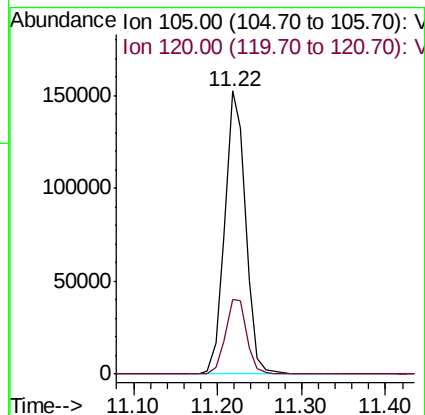
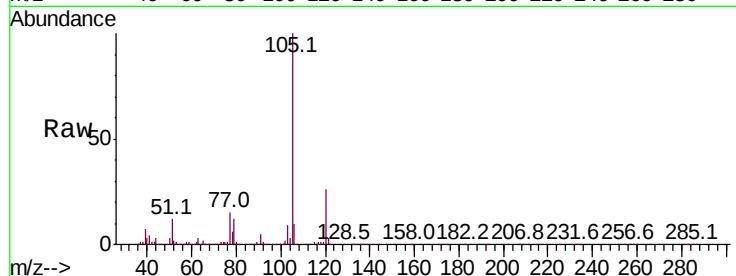
VF0524SBS01

Tot Ion:105 Resp: 261033

Ion Ratio Lower Upper

105 100

120 26.2 14.8 44.4



#74

N-ethyl acetate

Concen: 13.311 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Tgt Ion: 43 Resp: 49536

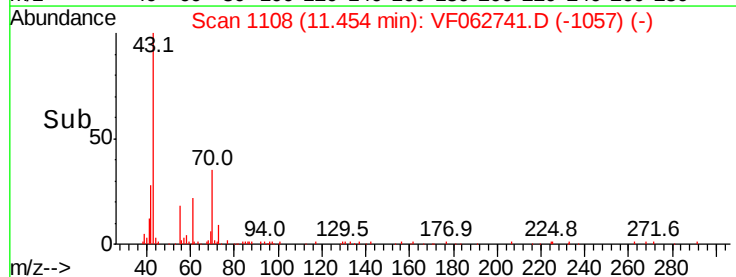
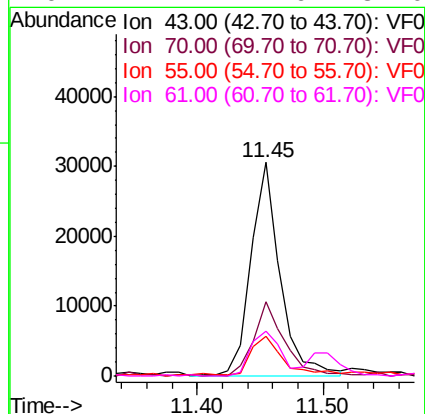
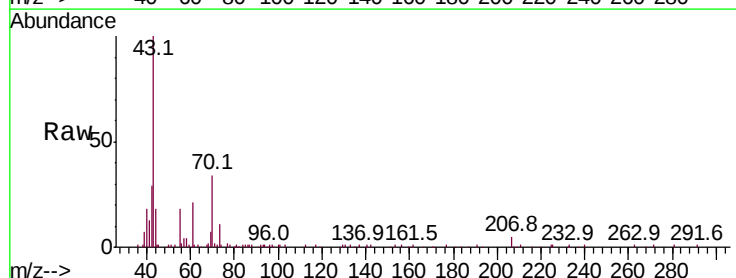
Ion Ratio Lower Upper

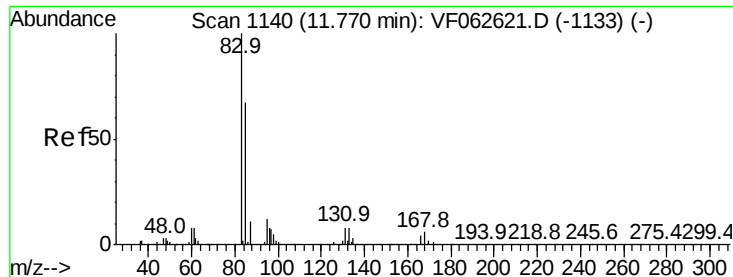
43 100

70 34.5 30.9 46.3

55 18.4 17.0 25.4

61 21.2 22.6 34.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 21.442 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

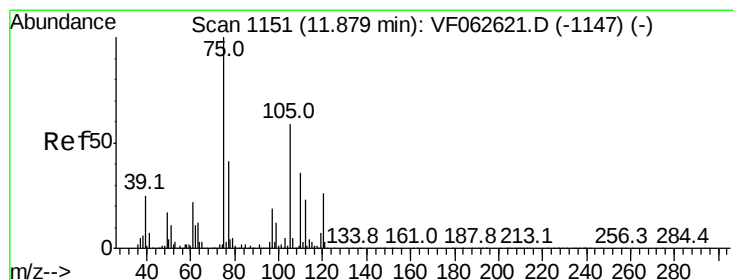
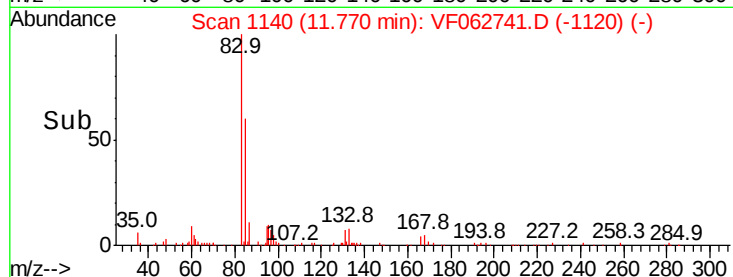
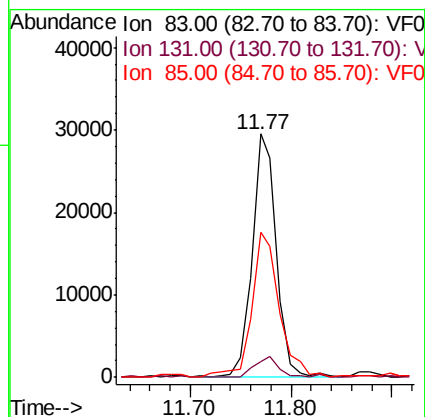
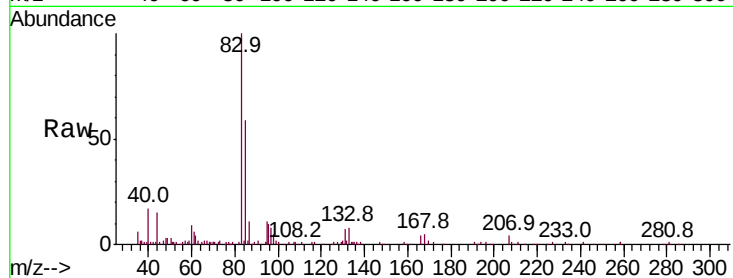
Tot Ion: 83 Resp: 49395

Ion Ratio Lower Upper

83 100

131 6.6 4.0 12.0

85 59.5 33.5 100.5



#76

1,2,3-Trichloropropane

Concen: 19.911 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.00 min

Lab File: VF062741.D

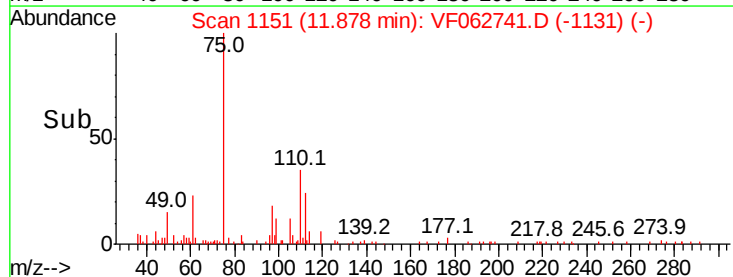
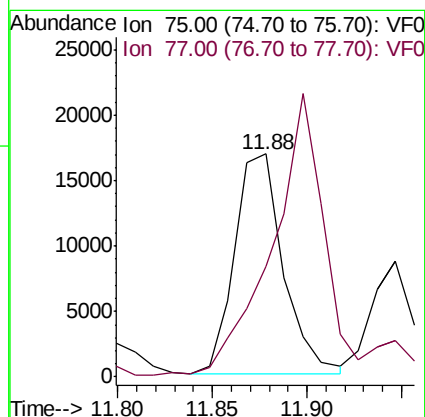
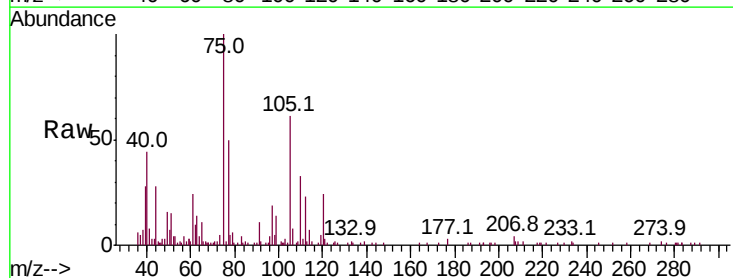
Acq: 24 May 2019 12:24

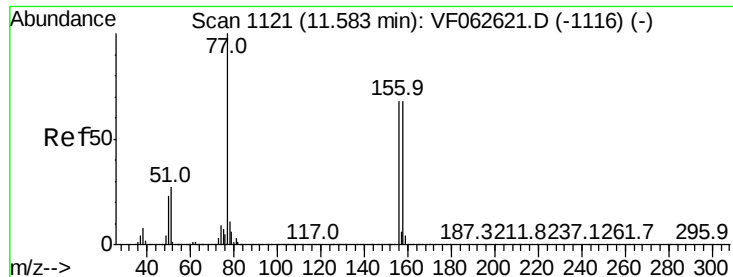
Tgt Ion: 75 Resp: 30139

Ion Ratio Lower Upper

75 100

77 49.5 20.6 61.8





#77

Bromobenzene

Concen: 21.039 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

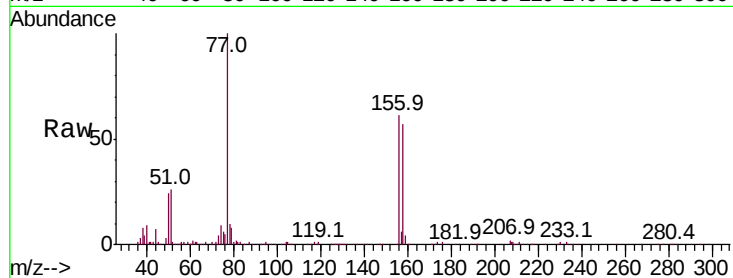
Tot Ion:156 Resp: 58950

Ion Ratio Lower Upper

156 100

77 163.9 73.6 220.8

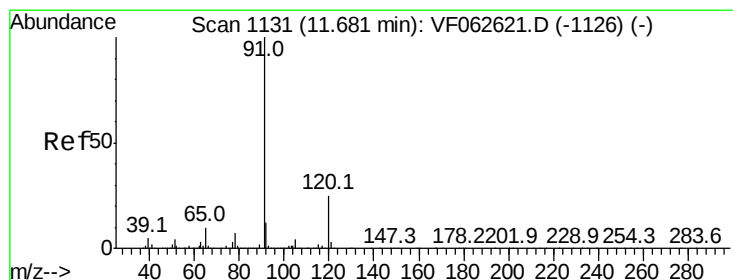
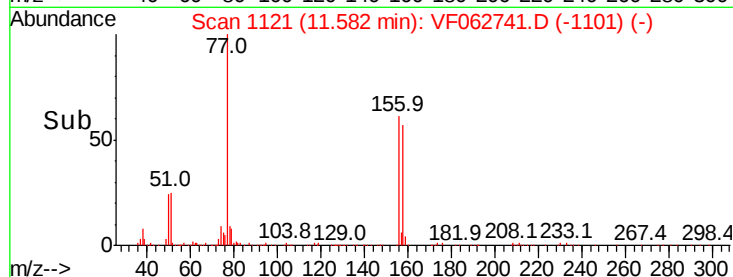
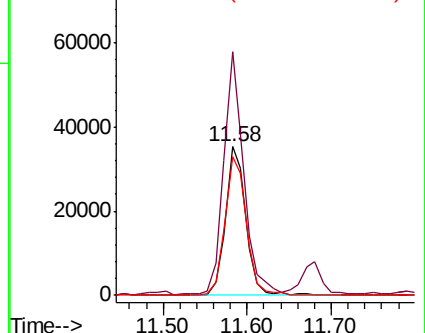
158 93.3 49.6 148.8



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: 25.021 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF062741.D

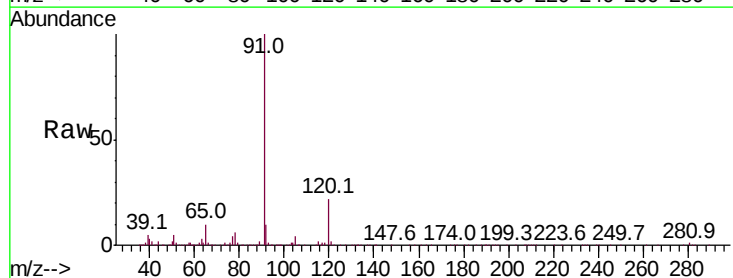
Acq: 24 May 2019 12:24

Tgt Ion: 91 Resp: 333791

Ion Ratio Lower Upper

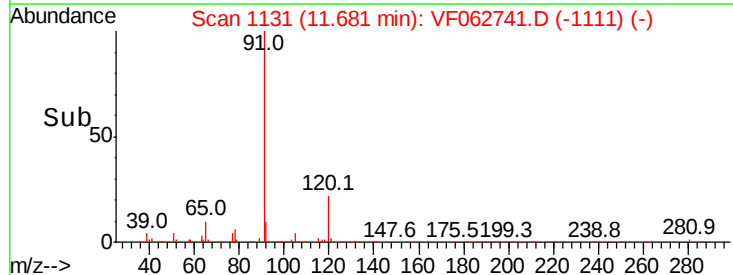
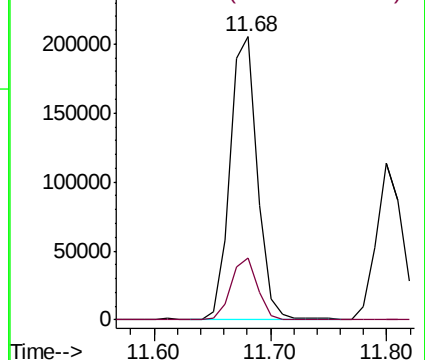
91 100

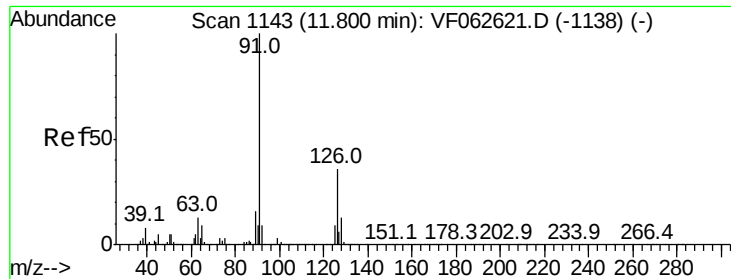
120 21.8 12.7 38.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 23.128 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

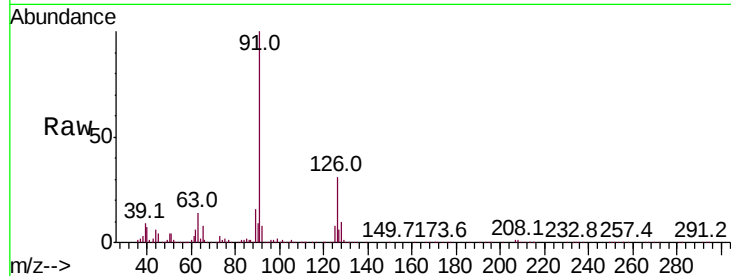
VF0524SBS01

Tot Ion: 91 Resp: 173885

Ion Ratio Lower Upper

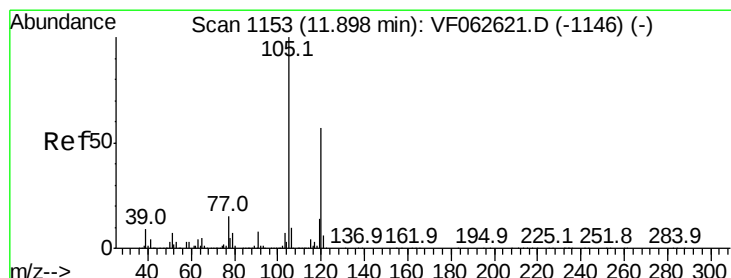
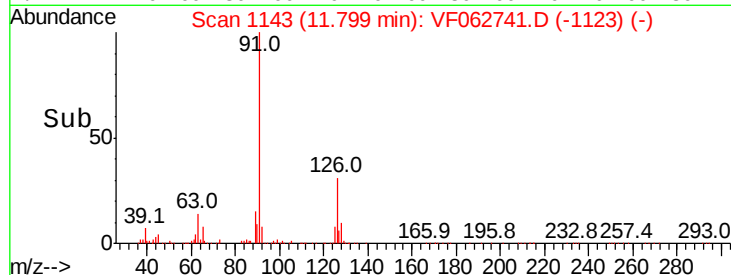
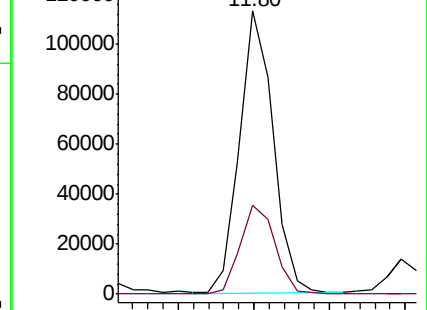
91 100

126 31.3 18.1 54.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 24.415 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VF062741.D

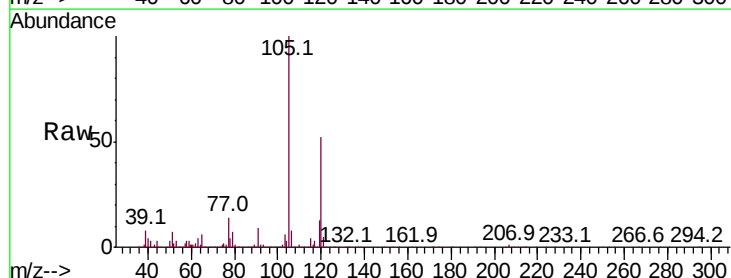
Acq: 24 May 2019 12:24

Tgt Ion:105 Resp: 220679

Ion Ratio Lower Upper

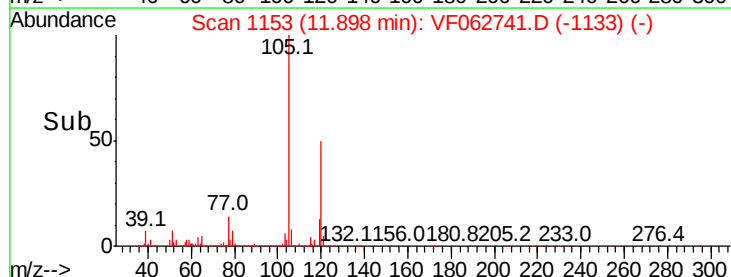
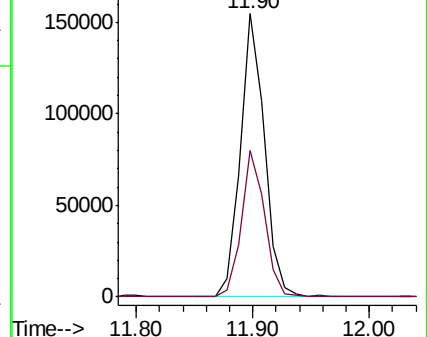
105 100

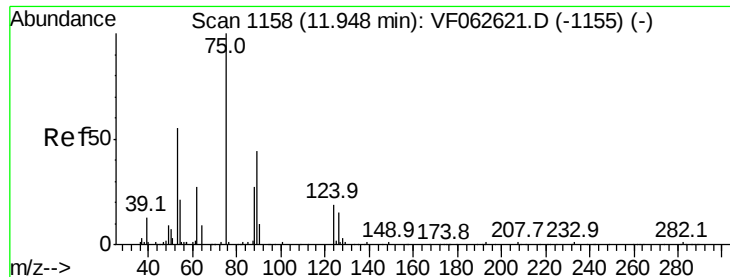
120 51.6 28.7 86.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 21.726 ug/l m

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

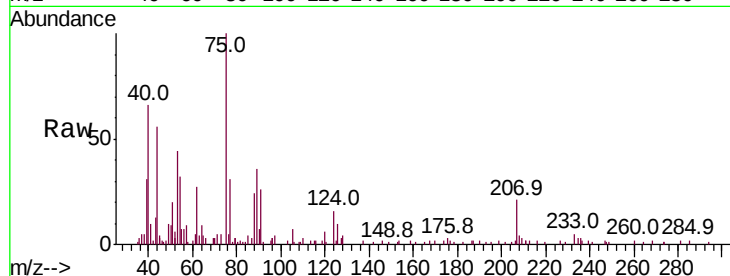
Tot Ion: 75 Resp: 14618

Ion Ratio Lower Upper

75 100

53 44.2 46.9 70.3#

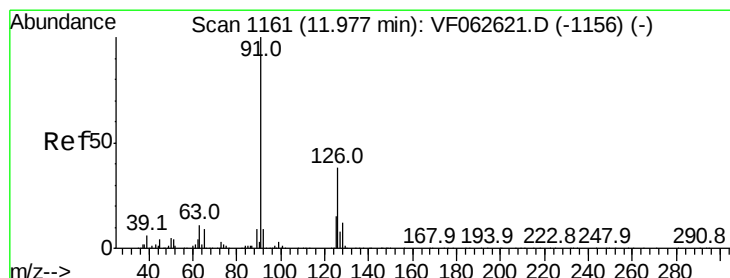
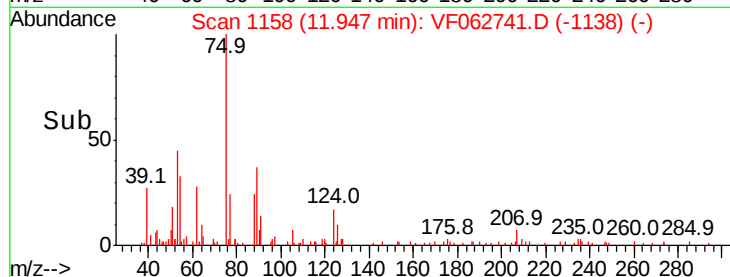
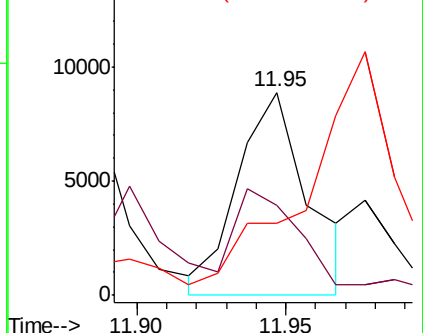
89 35.8 36.4 54.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 23.341 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. -0.00 min

Lab File: VF062741.D

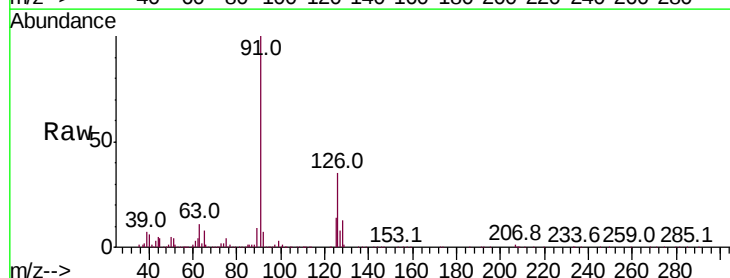
Acq: 24 May 2019 12:24

Tgt Ion: 91 Resp: 173050

Ion Ratio Lower Upper

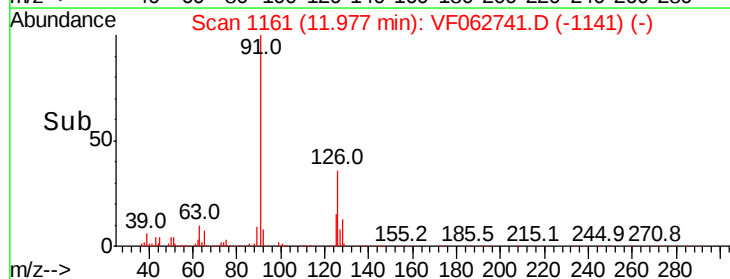
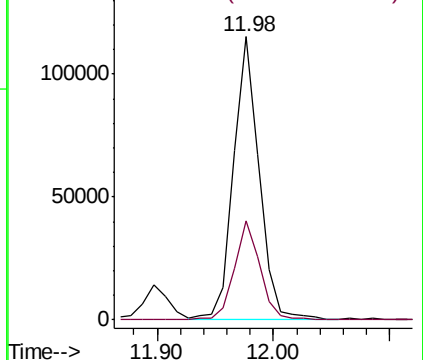
91 100

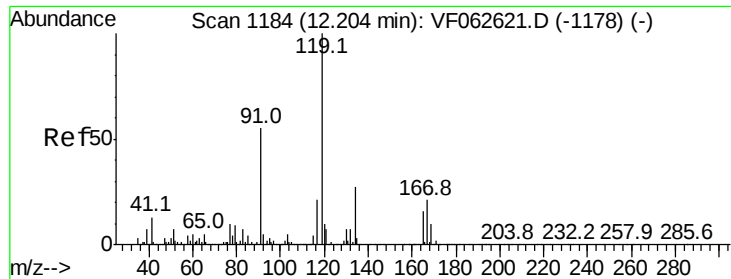
126 34.9 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

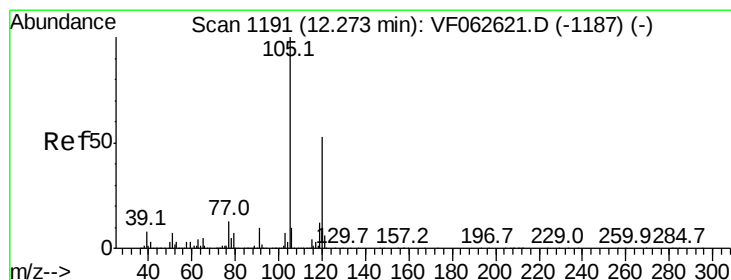
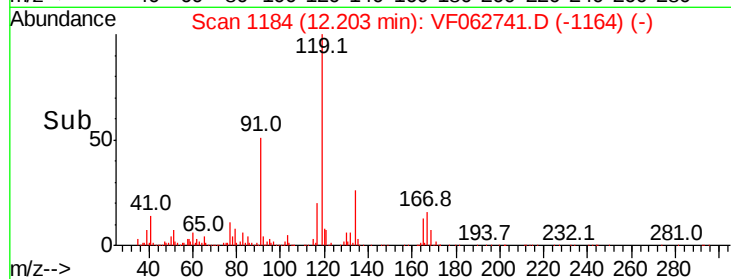
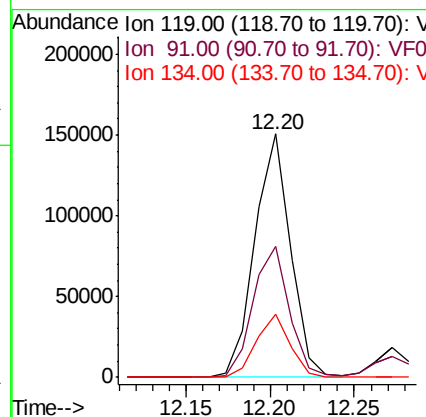
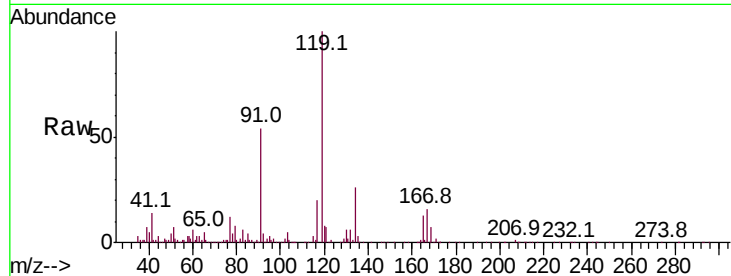




#83  
tert-Butylbenzene  
Concen: 24.253 ug/l  
RT: 12.20 min Scan# 1184  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

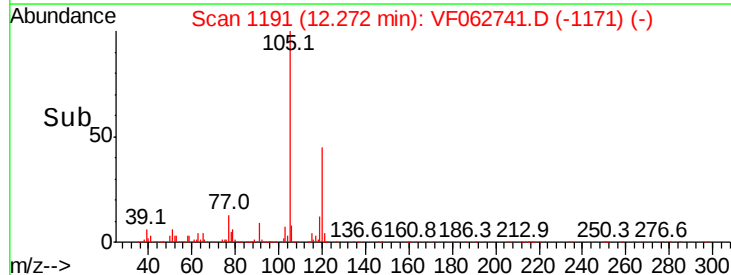
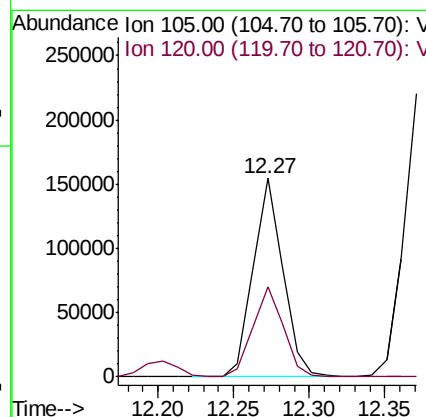
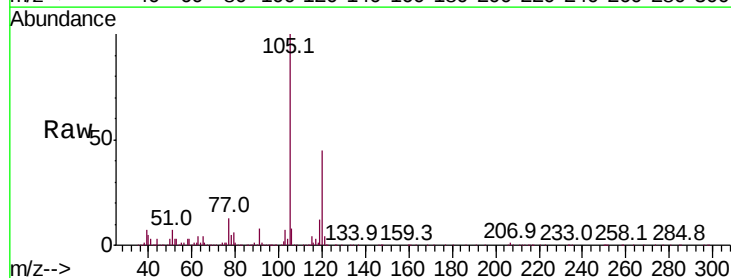
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0524SBS01

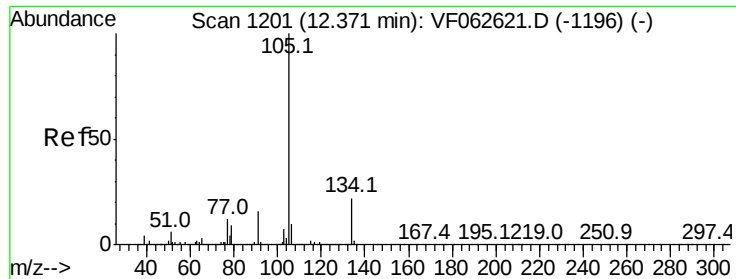
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 53.5  | 27.3  | 81.9  |
| 134     | 26.1  | 13.6  | 40.7  |



#84  
1,2,4-Trimethylbenzene  
Concen: 24.343 ug/l  
RT: 12.27 min Scan# 1191  
Delta R.T. -0.00 min  
Lab File: VF062741.D  
Acq: 24 May 2019 12:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 45.5  | 26.7  | 80.1  |





#85

sec-Butylbenzene

Concen: 25.005 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

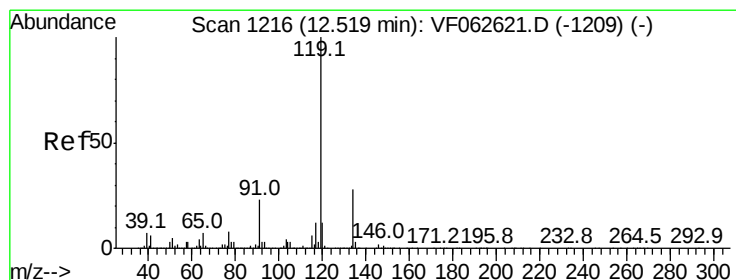
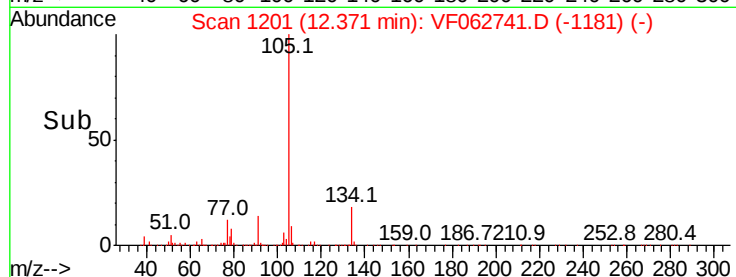
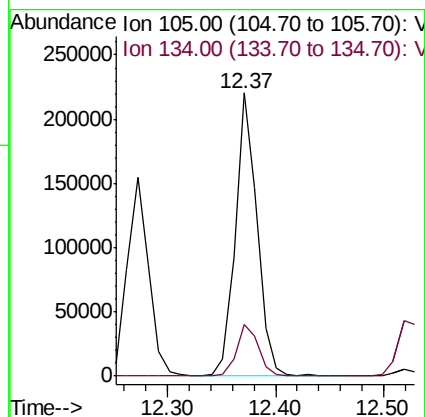
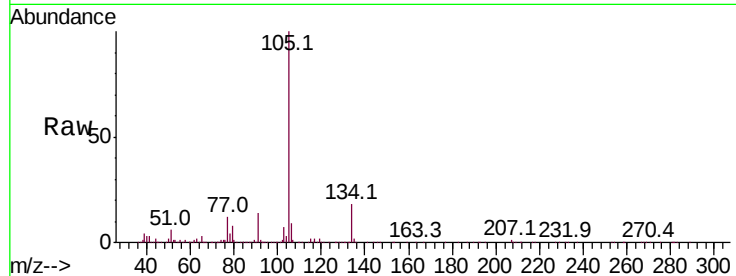
VF0524SBS01

Tot Ion:105 Resp: 307729

Ion Ratio Lower Upper

105 100

134 18.5 10.8 32.4



#86

p-Isopropyltoluene

Concen: 23.828 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

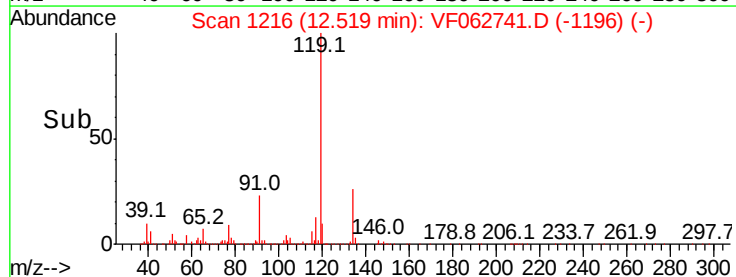
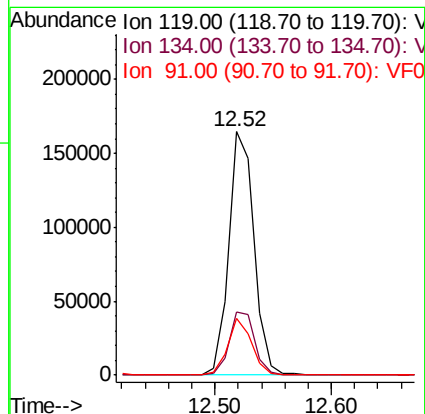
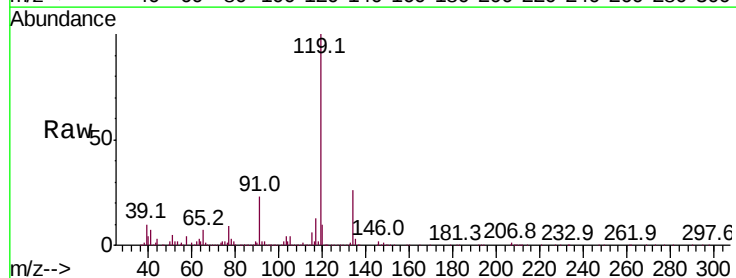
Tgt Ion:119 Resp: 247134

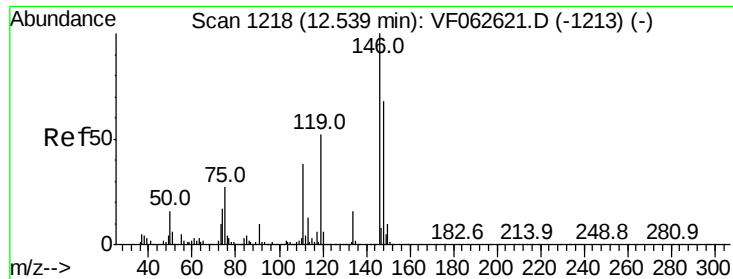
Ion Ratio Lower Upper

119 100

134 26.1 14.1 42.3

91 23.2 11.4 34.2

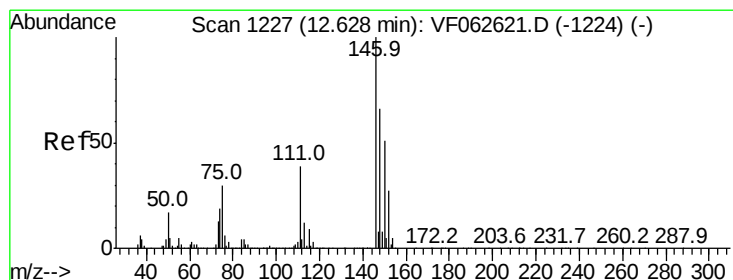
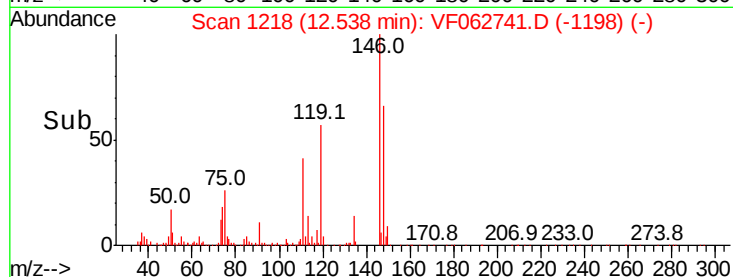
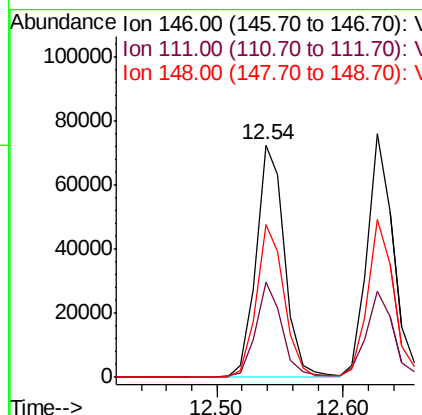
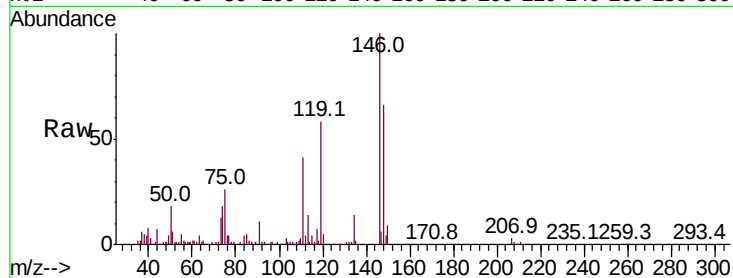




#87  
 1,3-Dichlorobenzene  
 Concen: 22.534 ug/l  
 RT: 12.54 min Scan# 1218  
 Delta R.T. -0.00 min  
 Lab File: VF062741.D  
 Acq: 24 May 2019 12:24

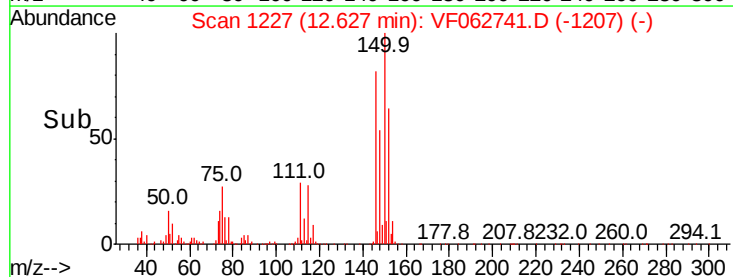
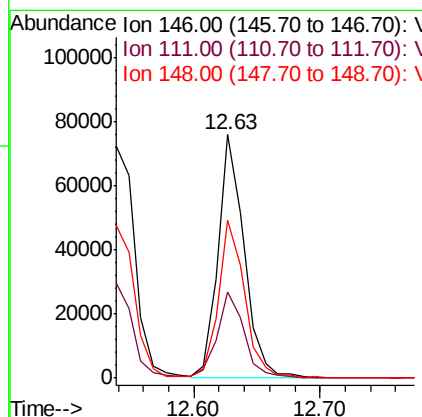
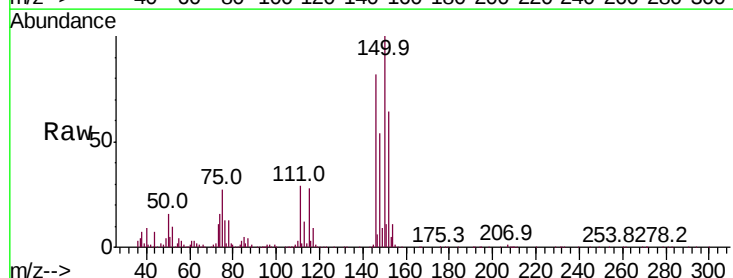
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0524SBS01

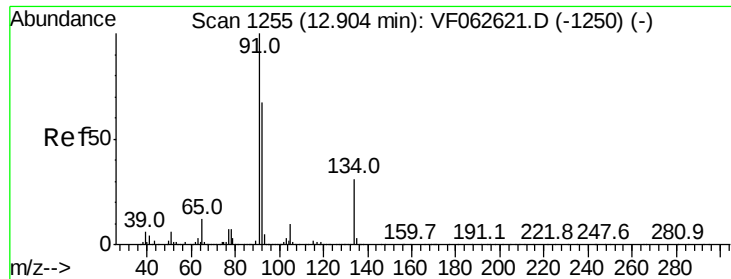
Tot Ion:146 Resp: 114232  
 Ion Ratio Lower Upper  
 146 100  
 111 40.9 18.9 56.9  
 148 65.7 34.0 101.8



#88  
 1,4-Dichlorobenzene  
 Concen: 23.193 ug/l  
 RT: 12.63 min Scan# 1227  
 Delta R.T. -0.00 min  
 Lab File: VF062741.D  
 Acq: 24 May 2019 12:24

Tgt Ion:146 Resp: 110334  
 Ion Ratio Lower Upper  
 146 100  
 111 35.7 19.4 58.2  
 148 64.9 33.2 99.6





#89

n-Butylbenzene

Concen: 26.127 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

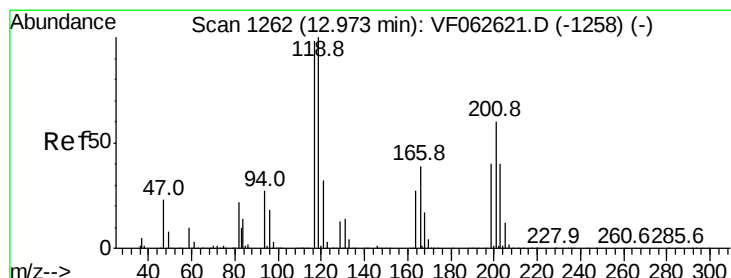
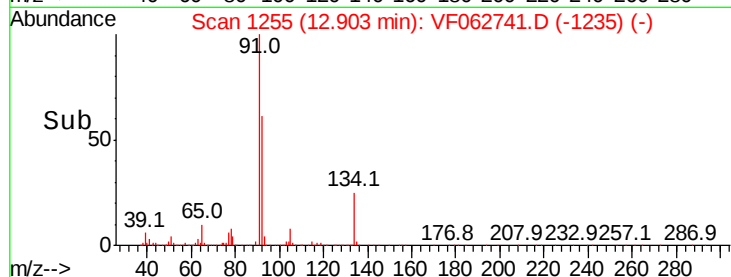
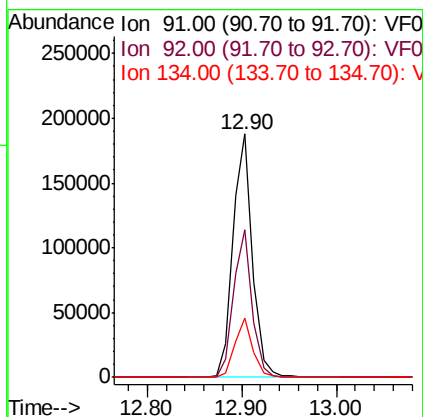
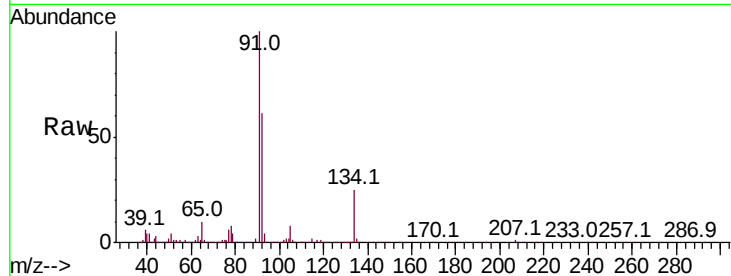
Tot Ion: 91 Resp: 267170

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 60.6  | 33.3  | 99.8  |
| 134 | 24.5  | 15.4  | 46.4  |

91 100

92 60.6 33.3 99.8

134 24.5 15.4 46.4



#90

Hexachloroethane

Concen: 23.257 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VF062741.D

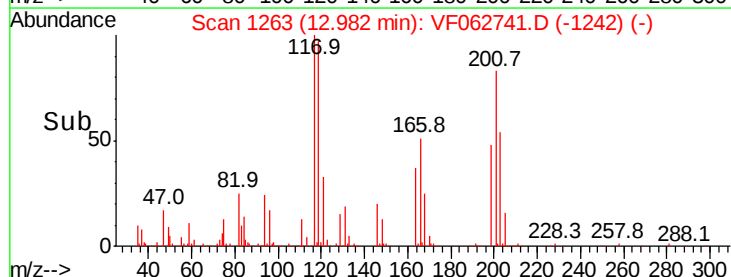
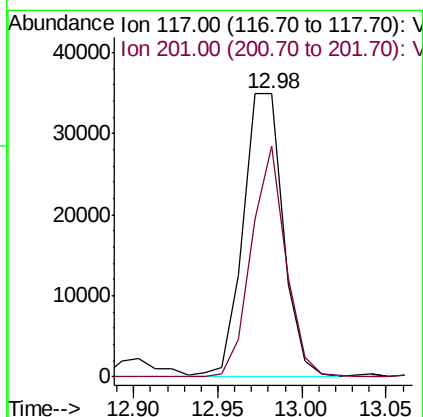
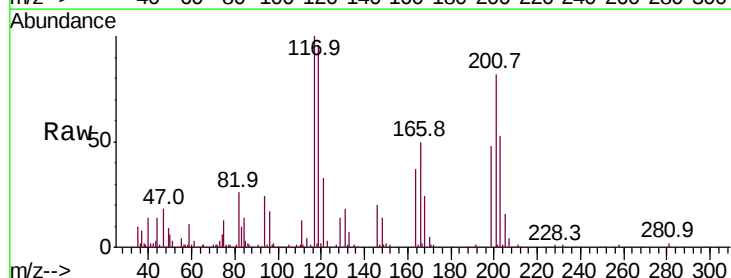
Acq: 24 May 2019 12:24

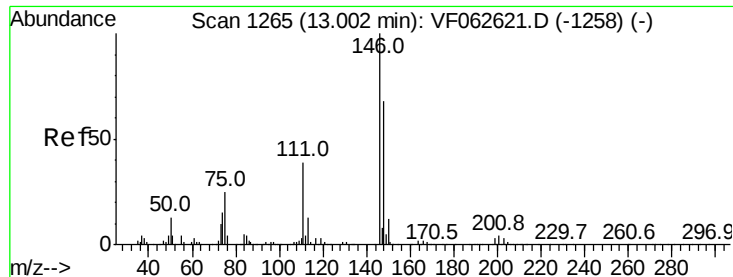
Tgt Ion: 117 Resp: 57862

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 201 | 81.7  | 30.7  | 92.1  |

117 100

201 81.7 30.7 92.1





#91

1,2-Dichlorobenzene

Concen: 21.889 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

MSVOA\_F

ClientSampleId :

VF0524SBS01

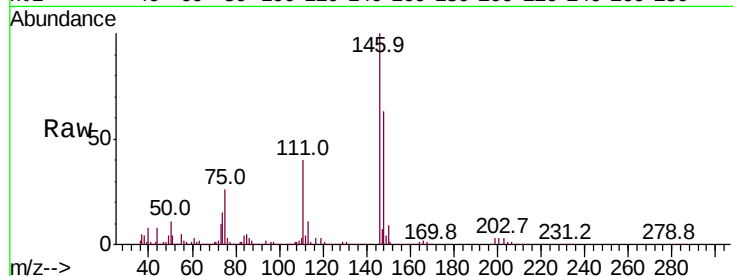
Tot Ion:146 Resp: 98911

Ion Ratio Lower Upper

146 100

111 39.6 19.8 59.3

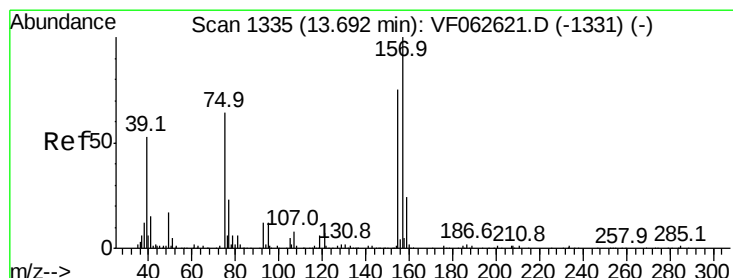
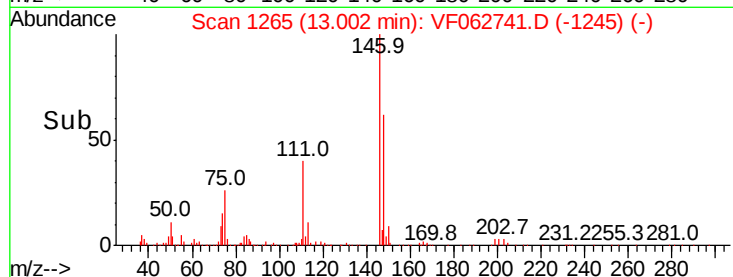
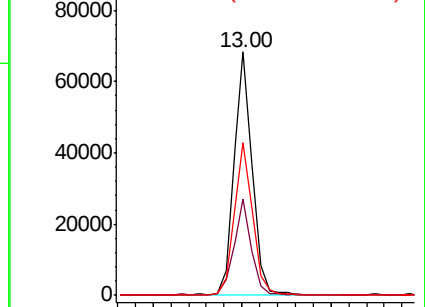
148 62.6 34.1 102.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 22.593 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

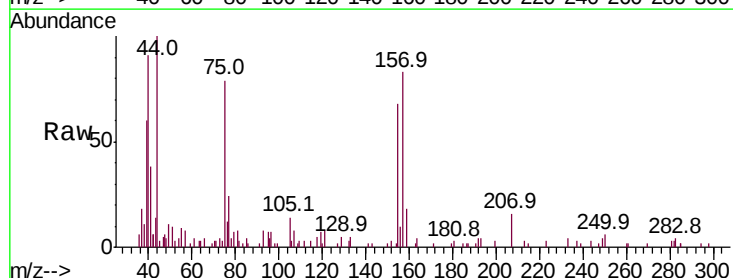
Tgt Ion: 75 Resp: 6209

Ion Ratio Lower Upper

75 100

155 86.4 58.1 174.3

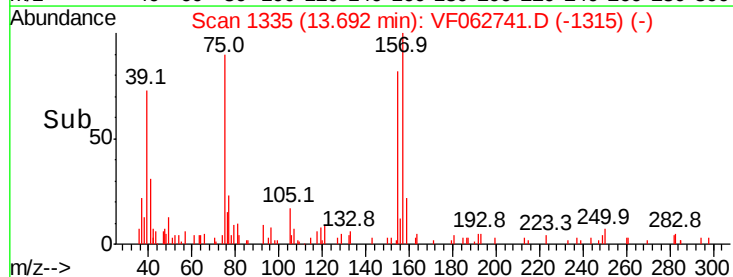
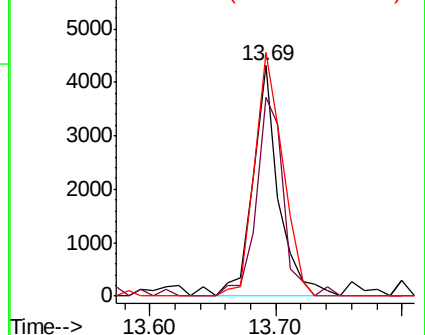
157 105.6 77.8 233.4

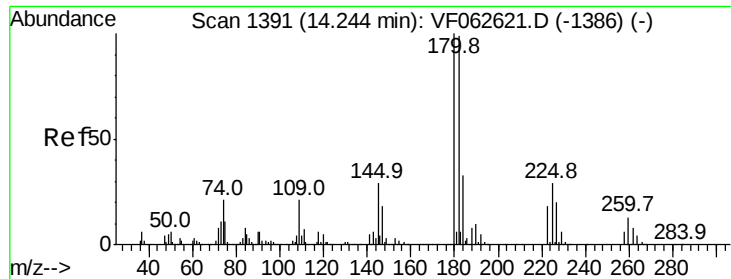


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

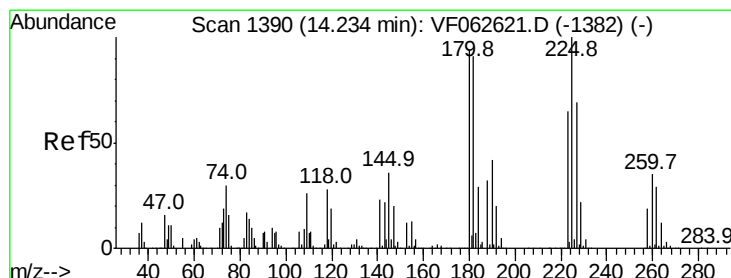
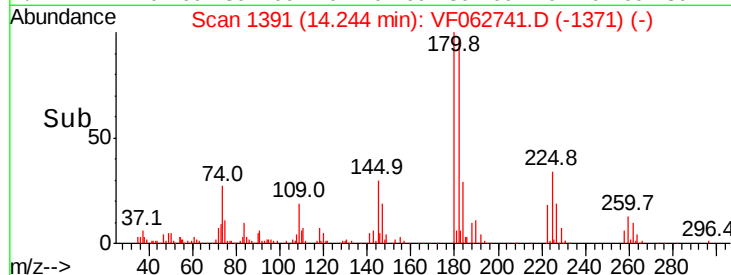
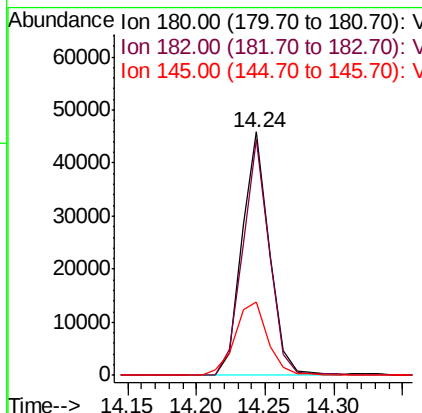
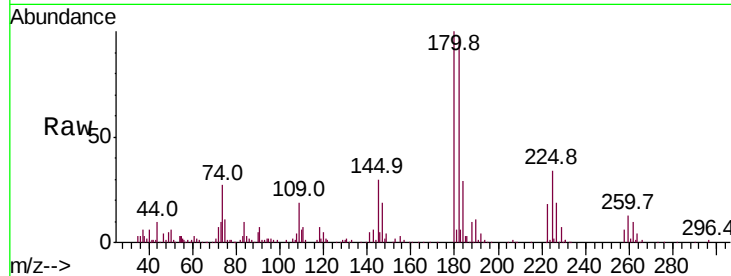




#93  
 1,2,4-Trichlorobenzene  
 Concen: 19.654 ug/l  
 RT: 14.24 min Scan# 1391  
 Delta R.T. -0.00 min  
 Lab File: VF062741.D  
 Acq: 24 May 2019 12:24

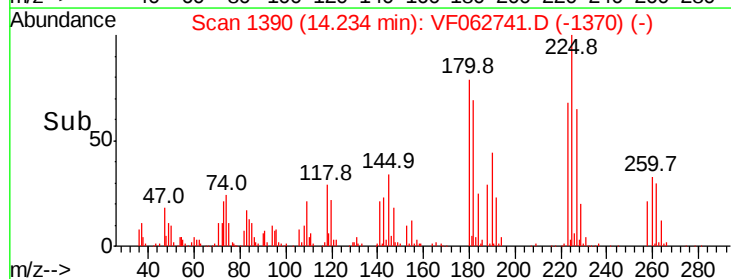
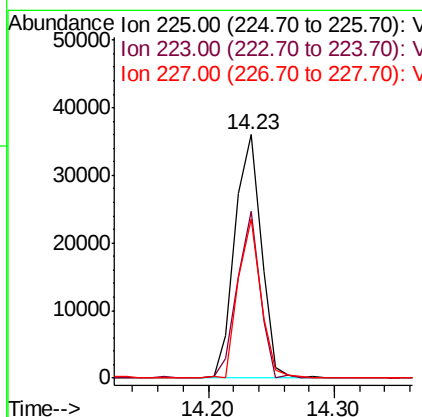
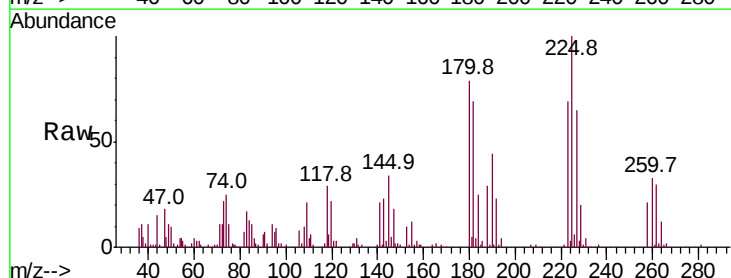
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0524SBS01

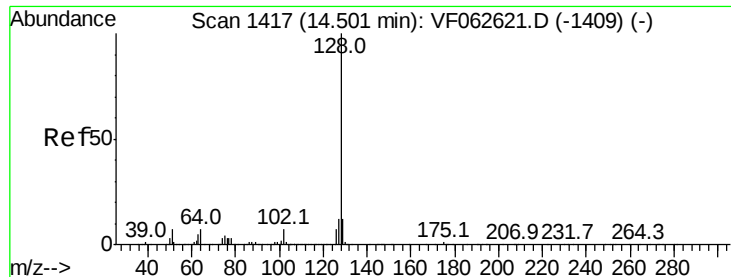
Tot Ion:180 Resp: 63571  
 Ion Ratio Lower Upper  
 180 100  
 182 97.0 49.7 149.1  
 145 30.0 14.6 44.0



#94  
 Hexachlorobutadiene  
 Concen: 23.006 ug/l  
 RT: 14.23 min Scan# 1390  
 Delta R.T. -0.00 min  
 Lab File: VF062741.D  
 Acq: 24 May 2019 12:24

Tgt Ion:225 Resp: 51930  
 Ion Ratio Lower Upper  
 225 100  
 223 68.5 32.5 97.4  
 227 65.3 34.5 103.5





#95

Naphthalene

Concen: 13.068 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Instrument :

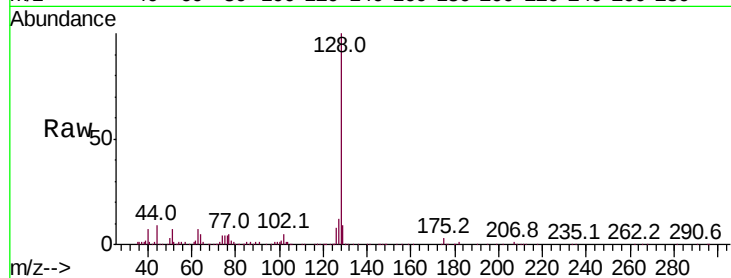
MSVOA\_F

ClientSampleId :

VF0524SBS01

Tot Ion:128 Resp: 76791

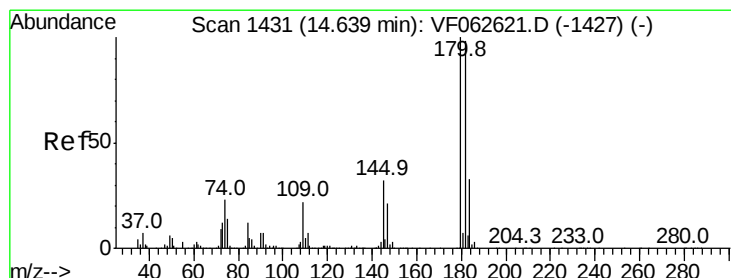
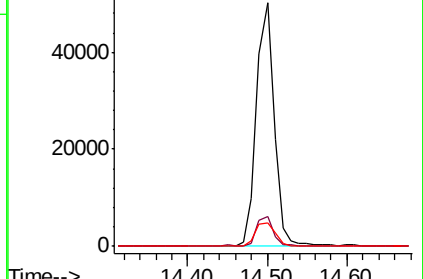
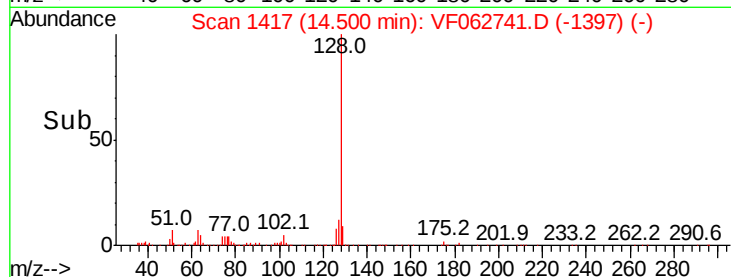
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 12.2  | 9.7   | 14.5  |
| 129 | 9.4   | 9.3   | 13.9  |



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 17.846 ug/l

RT: 14.64 min Scan# 1431

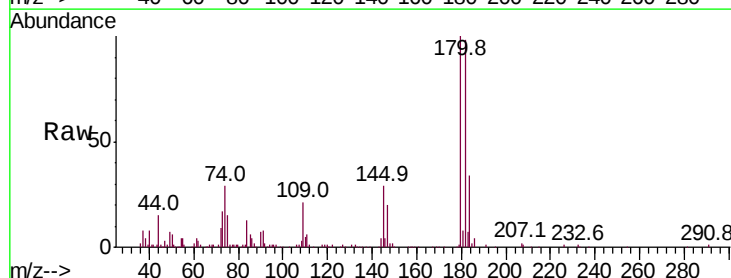
Delta R.T. -0.00 min

Lab File: VF062741.D

Acq: 24 May 2019 12:24

Tgt Ion:180 Resp: 54675

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 98.1  | 48.9  | 146.7 |
| 145 | 28.8  | 16.1  | 48.2  |



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

