

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060419\  
 Data File : VF062839.D  
 Acq On : 4 Jun 2019 15:24  
 Operator : FY/SY  
 Sample : VF0604SBS01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Jun 05 05:20:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 31 04:18:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.06  | 168  | 863907   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 5.78  | 114  | 1464359  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 9.91  | 117  | 1123424  | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 523553   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 315227   | 52.77 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 105.54% |          |
| 35) Dibromofluoromethane    | 4.31  | 113  | 559570   | 50.57 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 101.14% |          |
| 50) Toluene-d8              | 7.71  | 98   | 1330213  | 47.54 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 95.08%  |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 483443   | 48.03 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 96.06%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.01 | 85   | 239734   | 22.124  | ug/l   | 97     |
| 3) Chloromethane              | 1.15 | 50   | 194804   | 21.793  | ug/l   | 99     |
| 4) Vinyl Chloride             | 1.20 | 62   | 189268   | 21.307  | ug/l   | 98     |
| 5) Bromomethane               | 1.40 | 94   | 101999   | 20.134  | ug/l   | 91     |
| 6) Chloroethane               | 1.45 | 64   | 66031    | 19.882  | ug/l   | 92     |
| 7) Trichlorofluoromethane     | 1.56 | 101  | 257049   | 20.441  | ug/l   | 97     |
| 8) Diethyl Ether              | 1.72 | 74   | 47219    | 19.085  | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.92 | 101  | 168127   | 21.265  | ug/l   | 95     |
| 10) Methyl Iodide             | 1.98 | 142  | 338469   | 21.351  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 2.71 | 59   | 36823    | 101.750 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 1.89 | 96   | 147092   | 20.489  | ug/l   | 89     |
| 13) Acrolein                  | 2.10 | 56   | 11881    | 76.500  | ug/l   | 95     |
| 14) Allyl chloride            | 2.20 | 41   | 116035   | 20.834  | ug/l   | 94     |
| 15) Acrylonitrile             | 3.09 | 53   | 101273   | 74.473  | ug/l   | 96     |
| 16) Acetone                   | 2.35 | 43   | 110910   | 81.116  | ug/l   | 97     |
| 17) Carbon Disulfide          | 1.93 | 76   | 411666   | 19.619  | ug/l   | 95     |
| 18) Methyl Acetate            | 2.47 | 43   | 43487    | 18.200  | ug/l   | 90     |
| 19) Methyl tert-butyl Ether   | 2.56 | 73   | 255292   | 19.628  | ug/l   | 99     |
| 20) Methylene Chloride        | 2.35 | 84   | 101248   | 12.551  | ug/l   | 96     |
| 21) trans-1,2-Dichloroethene  | 2.43 | 96   | 151379   | 21.030  | ug/l   | 98     |
| 22) Diisopropyl ether         | 2.94 | 45   | 304192   | 19.224  | ug/l   | 97     |
| 23) Vinyl Acetate             | 3.35 | 43   | 1094688  | 101.052 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 3.01 | 63   | 246634   | 20.876  | ug/l   | 96     |
| 25) 2-Butanone                | 4.54 | 43   | 287146   | 90.180  | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 3.78 | 77   | 149253   | 22.249  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 3.65 | 96   | 252253   | 20.848  | ug/l   | 96     |
| 28) Bromochloromethane        | 3.91 | 49   | 124150   | 19.318  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 4.27 | 42   | 126191   | 103.618 | ug/l   | 99     |
| 30) Chloroform                | 4.05 | 83   | 365798   | 21.969  | ug/l   | 95     |
| 31) Cyclohexane               | 3.89 | 56   | 328963   | 20.566  | ug/l   | 93     |
| 32) 1,1,1-Trichloroethane     | 4.30 | 97   | 239111   | 24.664  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 4.48 | 75   | 281860   | 20.908  | ug/l   | 97     |
| 37) Ethyl Acetate             | 4.30 | 43   | 106199   | 20.608  | ug/l # | 69     |
| 38) Carbon Tetrachloride      | 4.19 | 117  | 195027   | 21.406  | ug/l   | 97     |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: Jun 05 05:20:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 31 04:18:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.64  | 83   | 348132   | 20.749  | ug/l   | 95       |
| 40) Benzene                    | 4.82  | 78   | 828954   | 21.128  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.94  | 41   | 55109    | 19.237  | ug/l # | 88       |
| 42) 1,2-Dichloroethane         | 5.13  | 62   | 152918   | 20.493  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 7.11  | 43   | 135876   | 19.960  | ug/l # | 91       |
| 44) Trichloroethene            | 5.69  | 130  | 238344   | 21.525  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 6.41  | 63   | 195817   | 19.889  | ug/l   | 100      |
| 46) Dibromomethane             | 6.26  | 93   | 120256   | 20.920  | ug/l   | 87       |
| 47) Bromodichloromethane       | 6.56  | 83   | 238590   | 20.381  | ug/l   | 94       |
| 48) Methyl methacrylate        | 6.88  | 41   | 69776    | 19.889  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 6.87  | 88   | 18258    | 394.822 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone       | 8.40  | 43   | 492207   | 101.275 | ug/l   | 99       |
| 52) Toluene                    | 7.78  | 92   | 446121   | 21.111  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 8.42  | 75   | 195410   | 20.144  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 7.47  | 75   | 290116   | 20.660  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 8.64  | 97   | 130899   | 20.734  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.76  | 69   | 142979   | 21.108  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 8.99  | 76   | 225466   | 21.870  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 7.46  | 63   | 260317   | 109.961 | ug/l   | 93       |
| 59) 2-Hexanone                 | 9.62  | 43   | 364855   | 105.324 | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.87  | 129  | 160451   | 20.529  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.13  | 107  | 137366   | 20.951  | ug/l   | 99       |
| 64) Tetrachloroethene          | 8.30  | 164  | 181159   | 20.985  | ug/l   | 94       |
| 65) Chlorobenzene              | 9.93  | 112  | 462208   | 21.305  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.06 | 131  | 179306   | 20.752  | ug/l   | 98       |
| 67) Ethyl Benzene              | 10.03 | 91   | 831758   | 22.341  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.26 | 106  | 596380   | 41.862  | ug/l   | 85       |
| 69) o-Xylene                   | 10.82 | 106  | 293195   | 20.327  | ug/l   | 92       |
| 70) Styrene                    | 10.89 | 104  | 452039   | 21.262  | ug/l   | 98       |
| 71) Bromoform                  | 10.88 | 173  | 80933    | 19.526  | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.21 | 105  | 790710   | 21.645  | ug/l   | 93       |
| 74) N-amyl acetate             | 11.45 | 43   | 214297   | 20.813  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.77 | 83   | 151681   | 19.443  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.86 | 75   | 101497   | 19.627  | ug/l   | 91       |
| 77) Bromobenzene               | 11.58 | 156  | 188565   | 20.543  | ug/l   | 80       |
| 78) n-propylbenzene            | 11.67 | 91   | 935529   | 21.209  | ug/l   | 94       |
| 79) 2-Chlorotoluene            | 11.79 | 91   | 472137   | 18.707  | ug/l   | 89       |
| 80) 1,3,5-Trimethylbenzene     | 11.89 | 105  | 623160   | 20.859  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-buten | 11.94 | 75   | 56026    | 25.591  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.97 | 91   | 527392   | 21.263  | ug/l   | 95       |
| 83) tert-Butylbenzene          | 12.20 | 119  | 637297   | 21.529  | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene     | 12.27 | 105  | 608095   | 21.468  | ug/l   | 94       |
| 85) sec-Butylbenzene           | 12.36 | 105  | 856250   | 21.951  | ug/l   | 94       |
| 86) p-Isopropyltoluene         | 12.51 | 119  | 705716   | 21.736  | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene        | 12.53 | 146  | 339595   | 20.978  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 12.62 | 146  | 315075   | 20.856  | ug/l   | 96       |
| 89) n-Butylbenzene             | 12.90 | 91   | 713106   | 21.834  | ug/l   | 90       |
| 90) Hexachloroethane           | 12.98 | 117  | 169299   | 21.380  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.00 | 146  | 297720   | 20.924  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.69 | 75   | 15605    | 18.360  | ug/l   | 89       |

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Sample : VF0604SBSD01  
Misc : 5.00g/5mL/MSVOA F/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :

Quant Time: Jun 05 05:20:12 2019  
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Quant Title : SW846 8260  
QLast Update : Fri May 31 04:18:30 2019  
Response via : Initial Calibration

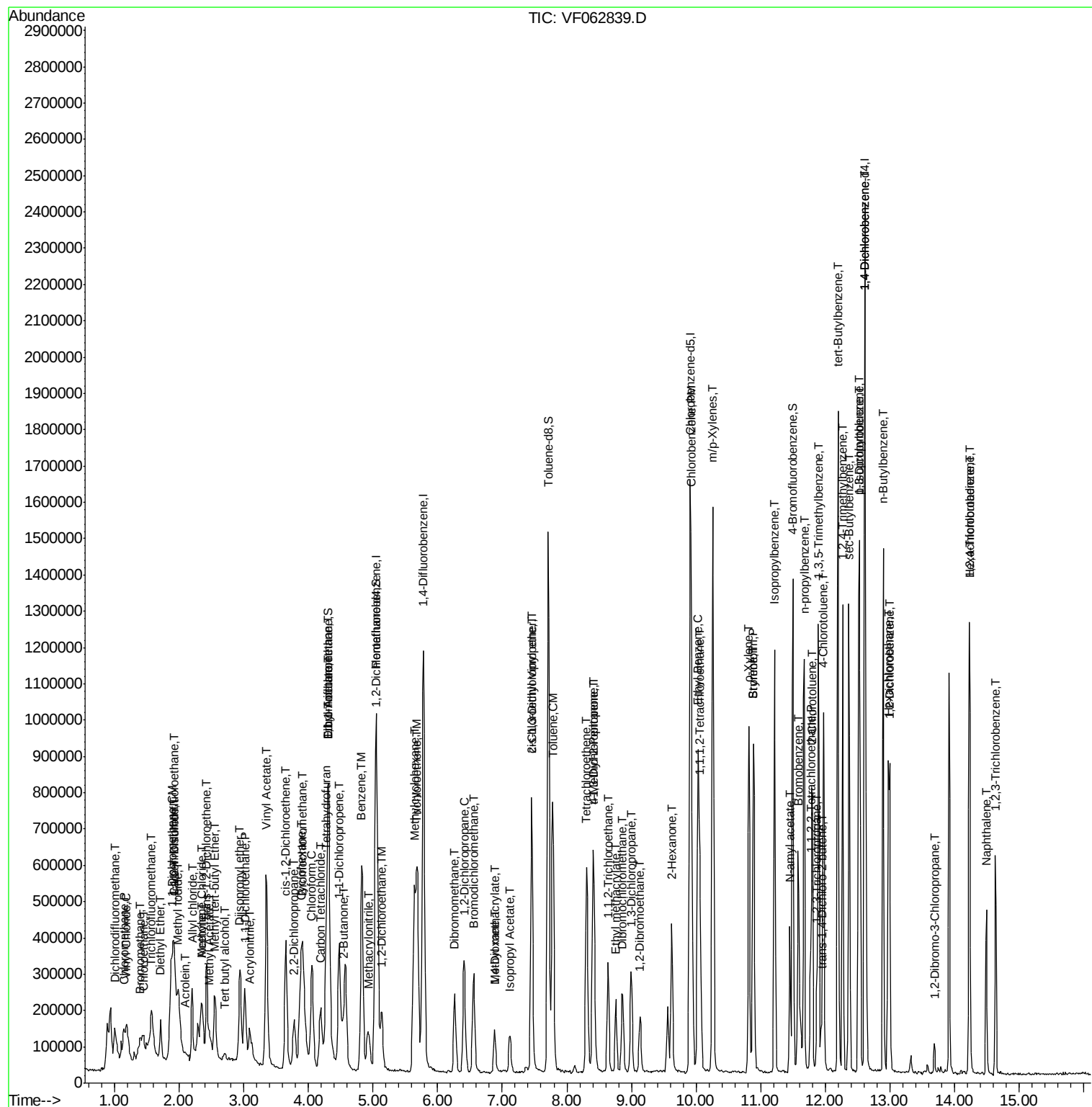
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.24 | 180  | 198653   | 20.334 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.23 | 225  | 140931   | 20.853 | ug/l  | 97       |
| 95) Naphthalene            | 14.49 | 128  | 325658   | 20.347 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.63 | 180  | 177364   | 19.889 | ug/l  | 97       |

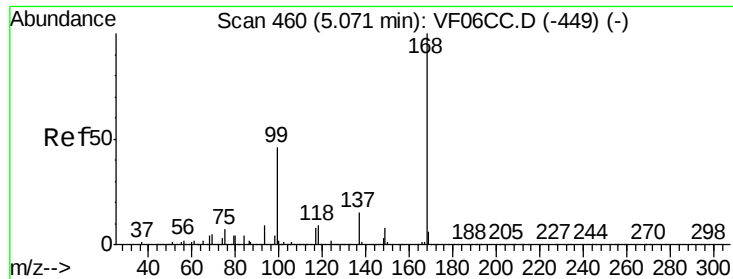
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 ClientSampleId :

Quant Time: Jun 05 05:20:12 2019  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 31 04:18:30 2019  
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

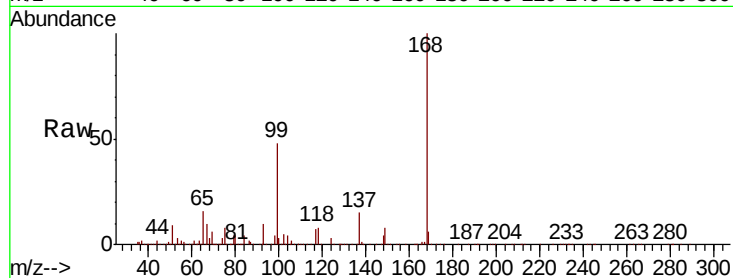
ClientSampleId :

Tot Ion:168 Resp: 863907

Ion Ratio Lower Upper

168 100

99 48.2 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

300000

250000

200000

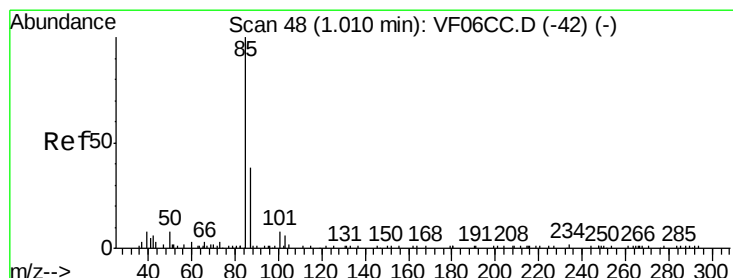
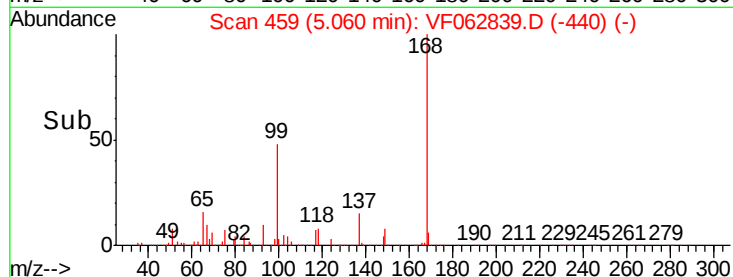
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.124 ug/l

RT: 1.01 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062839.D

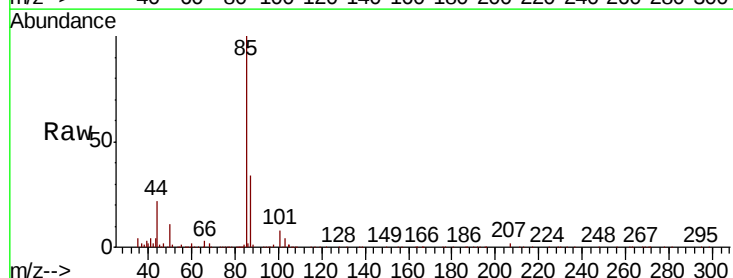
Acq: 4 Jun 2019 15:24

Tgt Ion: 85 Resp: 239734

Ion Ratio Lower Upper

85 100

87 33.6 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

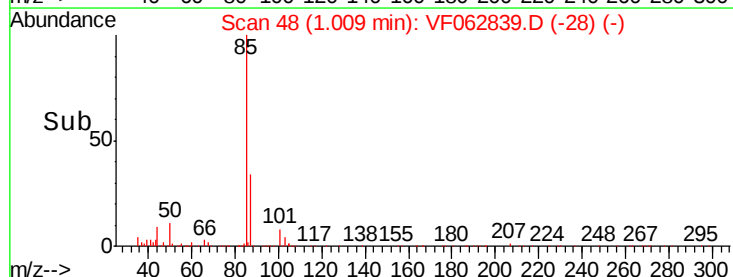
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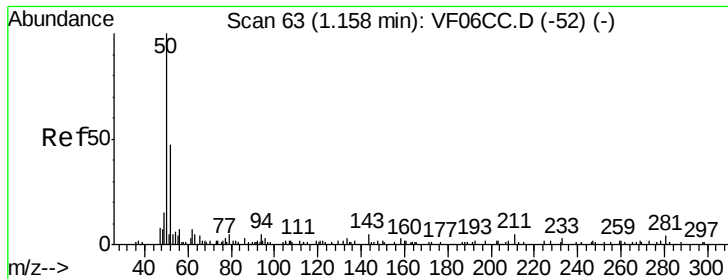
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20000

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Time-->





#3

Chloromethane

Concen: 21.793 ug/l

RT: 1.15 min Scan# 62

Delta R.T. -0.00 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

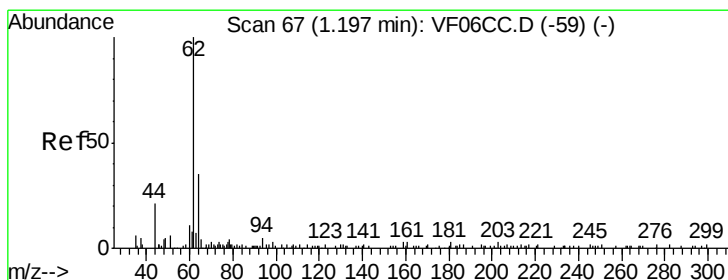
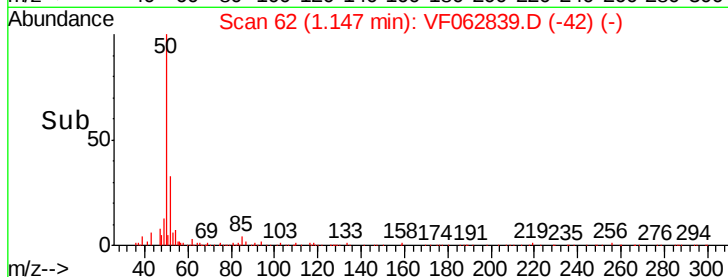
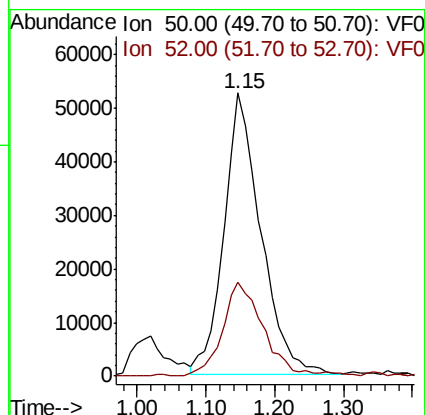
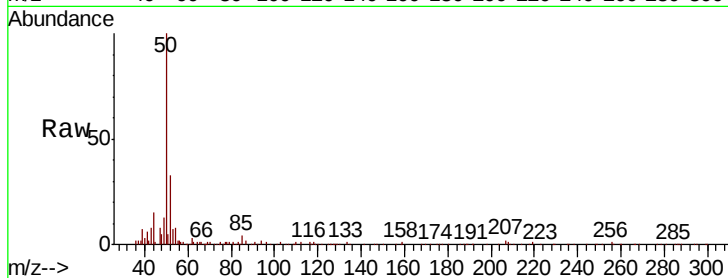
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 50 Resp: 194804

Ion Ratio Lower Upper

50 100

52 33.3 27.0 40.4



#4

Vinyl Chloride

Concen: 21.307 ug/l

RT: 1.20 min Scan# 67

Delta R.T. -0.00 min

Lab File: VF062839.D

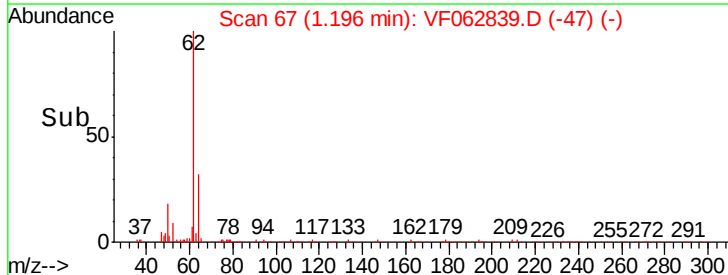
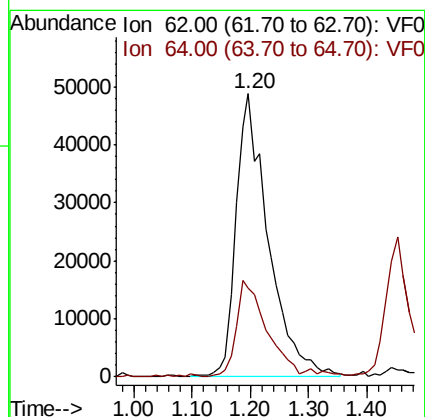
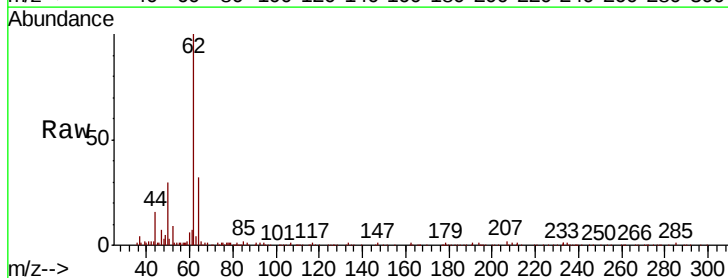
Acq: 4 Jun 2019 15:24

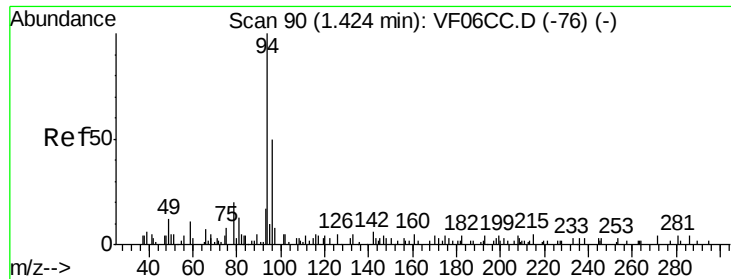
Tgt Ion: 62 Resp: 189268

Ion Ratio Lower Upper

62 100

64 31.6 26.2 39.2

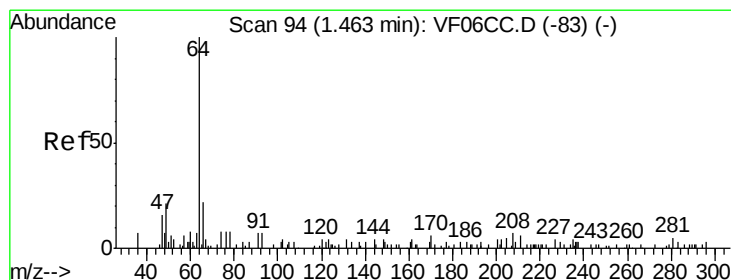
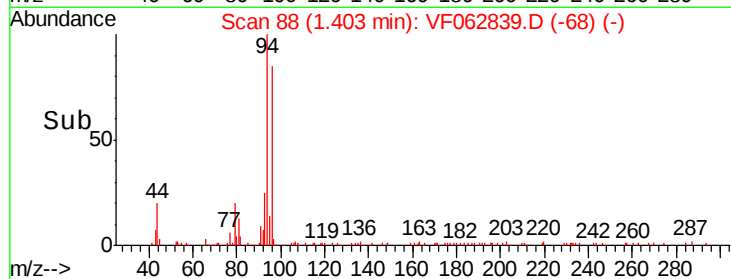
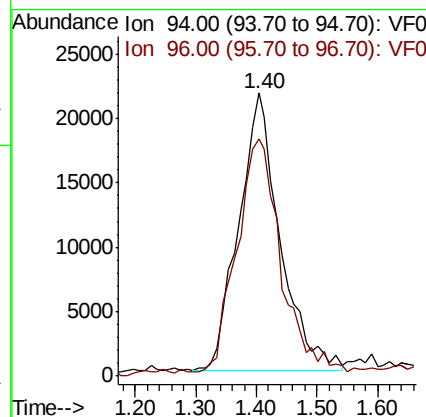
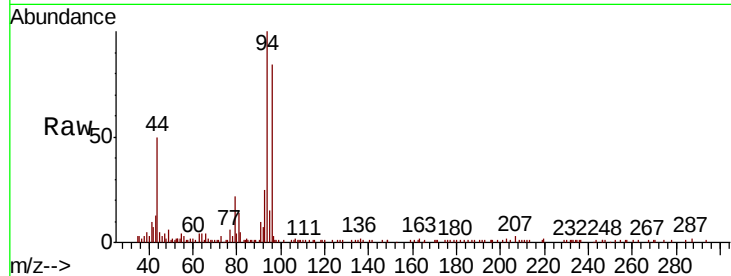




#5  
Bromomethane  
Concen: 20.134 ug/l  
RT: 1.40 min Scan# 88  
Delta R.T. -0.00 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

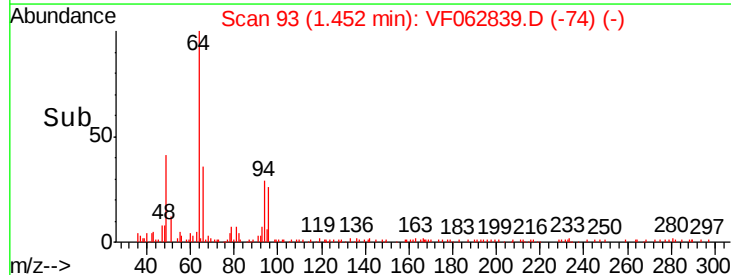
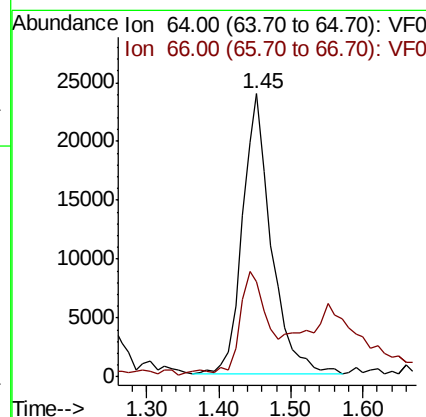
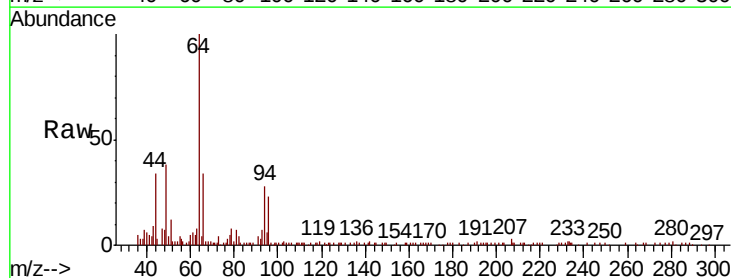
Instrument :  
MSVOA\_F  
ClientSampleId :

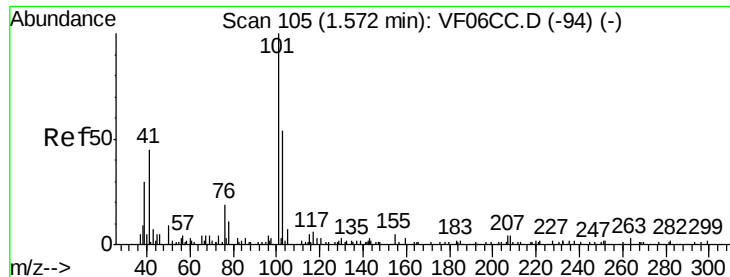
Tot Ion: 94 Resp: 101999  
Ion Ratio Lower Upper  
94 100  
96 83.7 73.8 110.6



#6  
Chloroethane  
Concen: 19.882 ug/l  
RT: 1.45 min Scan# 93  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion: 64 Resp: 66031  
Ion Ratio Lower Upper  
64 100  
66 33.8 31.0 46.4



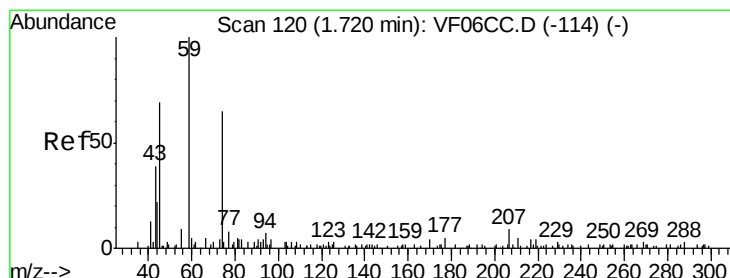
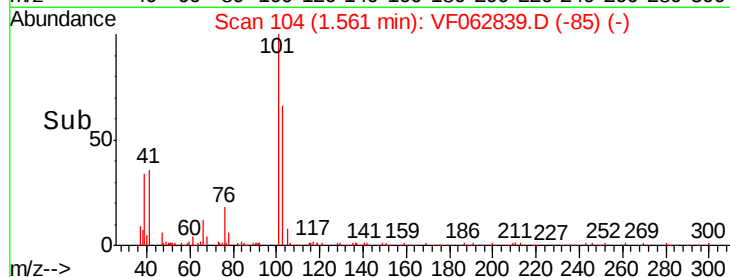
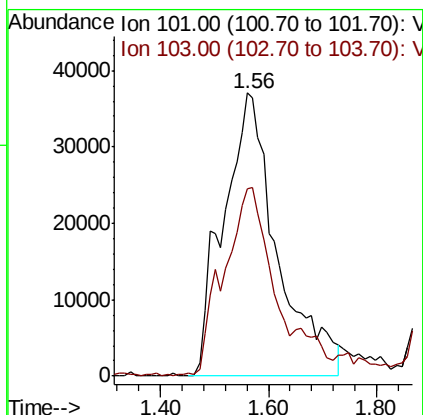
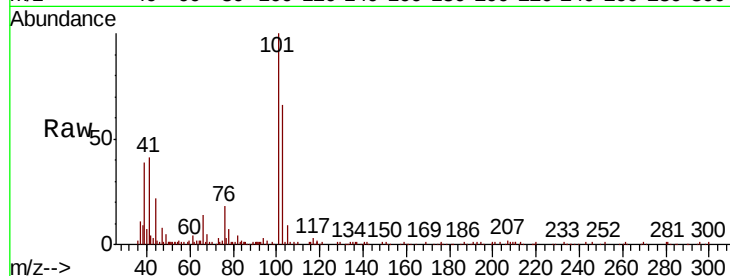


#7

Trichlorofluoromethane  
Concen: 20.441 ug/l  
RT: 1.56 min Scan# 104  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

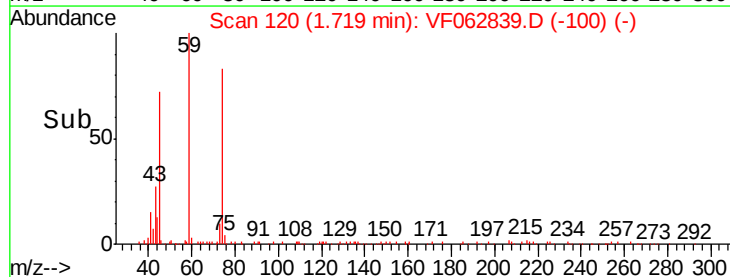
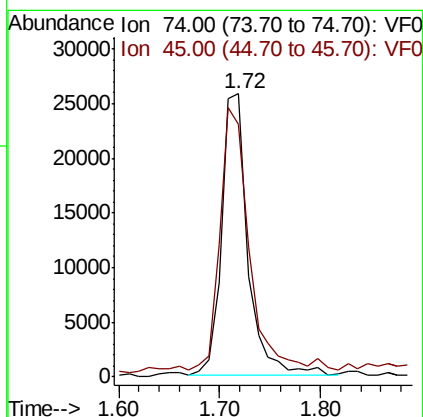
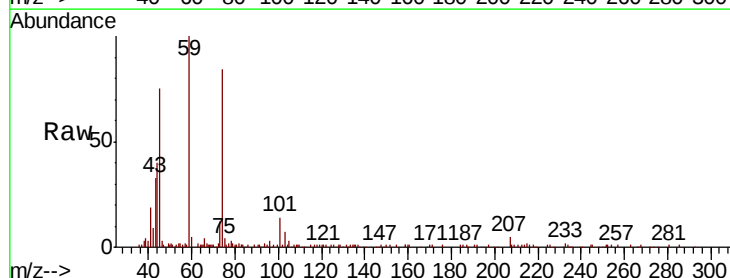
Tot Ion:101 Resp: 257049  
Ion Ratio Lower Upper  
101 100  
103 66.2 54.6 82.0

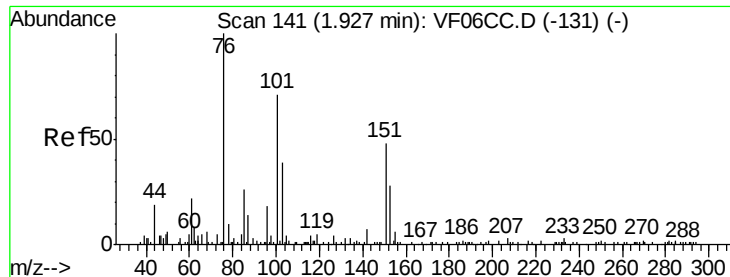


#8

Diethyl Ether  
Concen: 19.085 ug/l  
RT: 1.72 min Scan# 120  
Delta R.T. -0.00 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion: 74 Resp: 47219  
Ion Ratio Lower Upper  
74 100  
45 89.2 47.5 142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.265 ug/l

RT: 1.92 min Scan# 140

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

ClientSampleId :

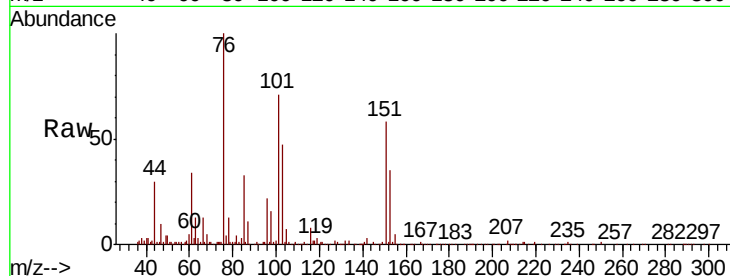
Tot Ion:101 Resp: 168127

Ion Ratio Lower Upper

101 100

85 46.6 37.1 55.7

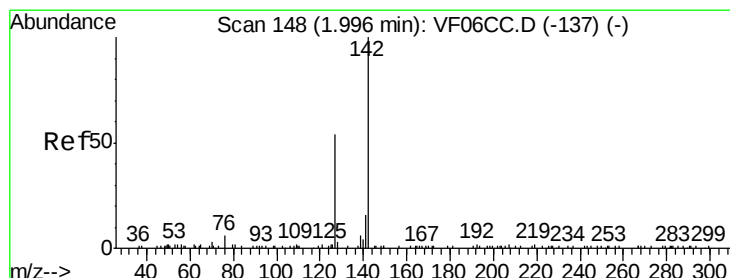
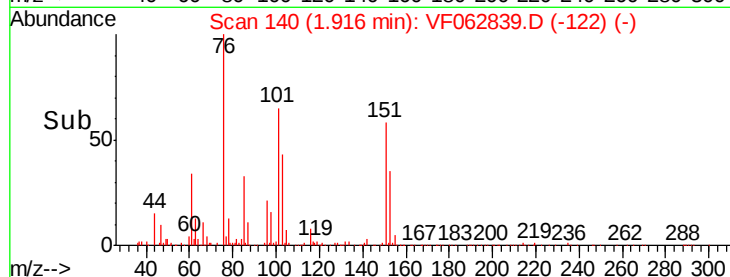
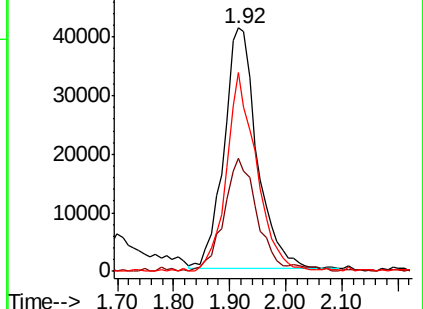
151 81.6 60.3 90.5



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: 21.351 ug/l

RT: 1.98 min Scan# 147

Delta R.T. -0.03 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

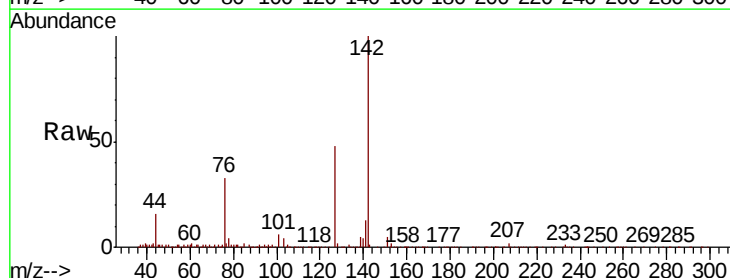
Tgt Ion:142 Resp: 338469

Ion Ratio Lower Upper

142 100

127 47.7 39.4 59.2

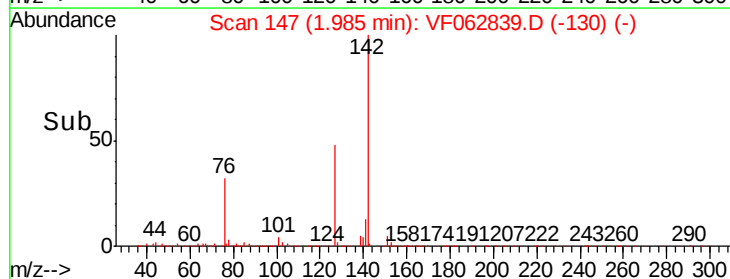
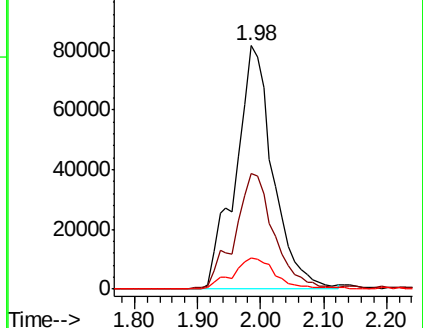
141 12.9 10.6 15.8

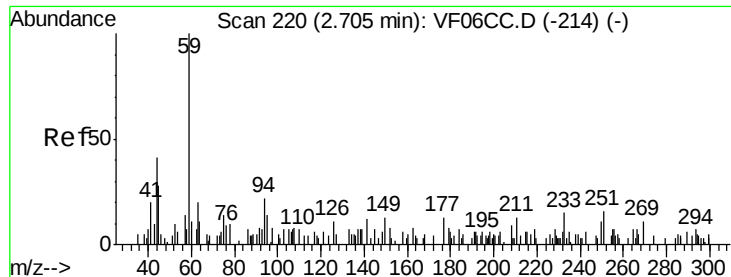


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



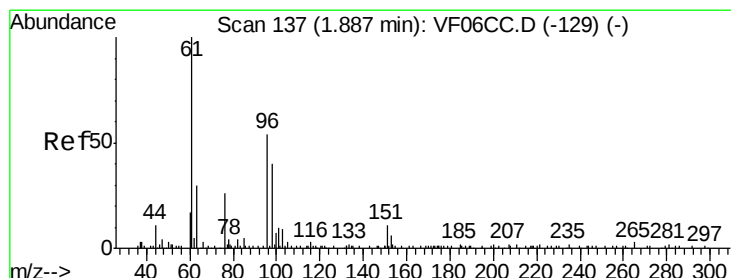
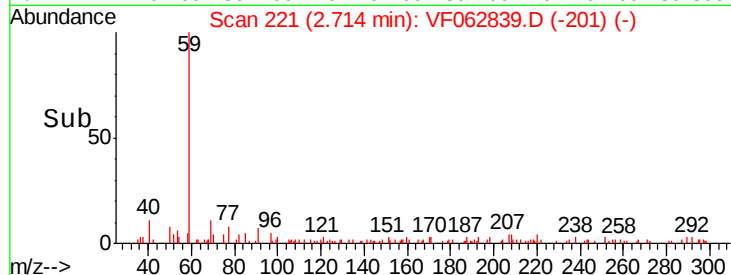
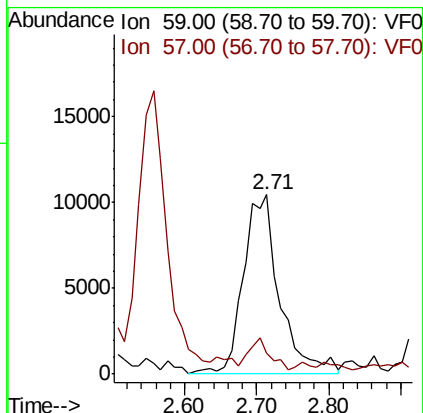
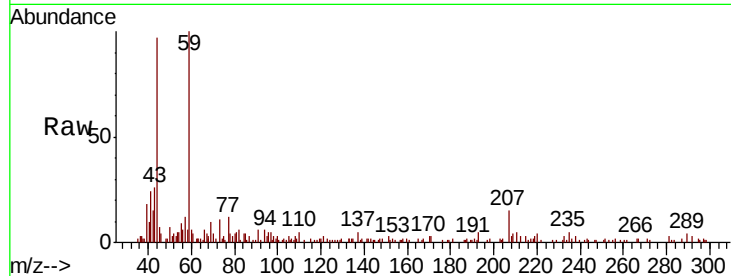


#11

Tert butyl alcohol  
Concen: 101.750 ug/l  
RT: 2.71 min Scan# 221  
Delta R.T. -0.00 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

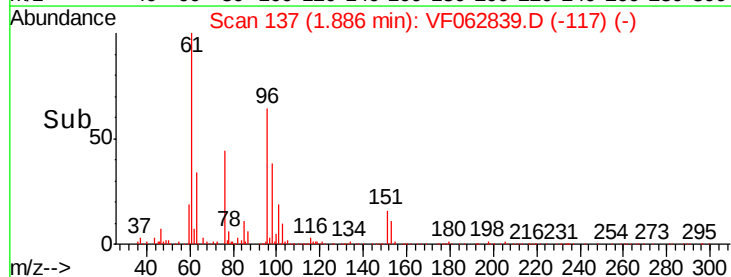
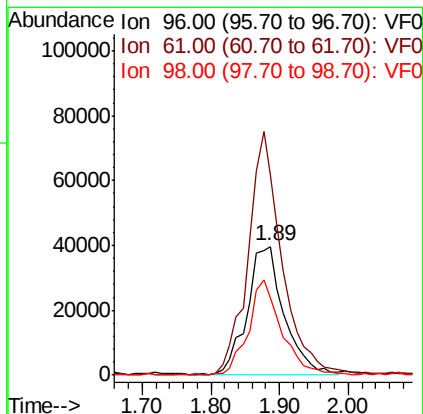
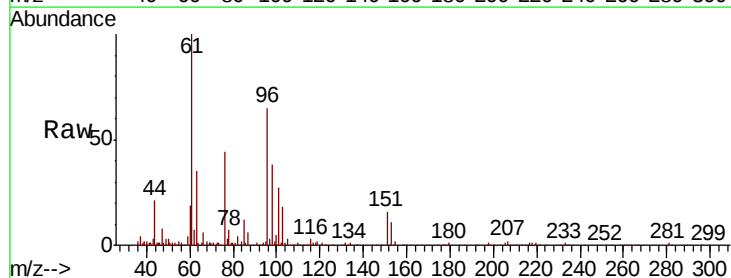
Tot Ion: 59 Resp: 36823  
Ion Ratio Lower Upper  
59 100  
57 11.9 9.2 13.8

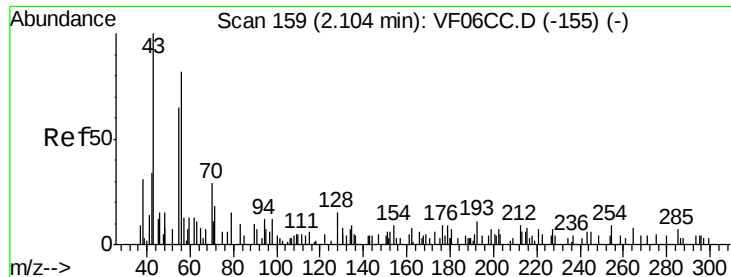


#12

1,1-Dichloroethene  
Concen: 20.489 ug/l  
RT: 1.89 min Scan# 137  
Delta R.T. -0.00 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion: 96 Resp: 147092  
Ion Ratio Lower Upper  
96 100  
61 154.9 139.4 209.2  
98 59.6 50.3 75.5





#13

Acrolein

Concen: 76.500 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

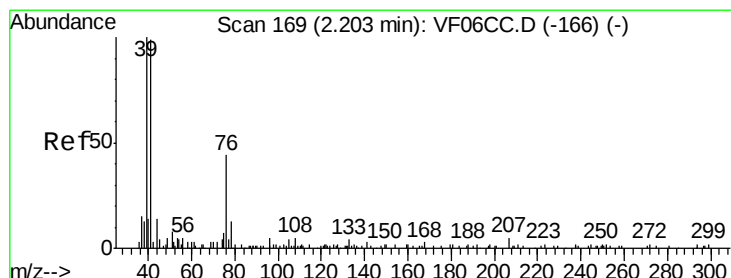
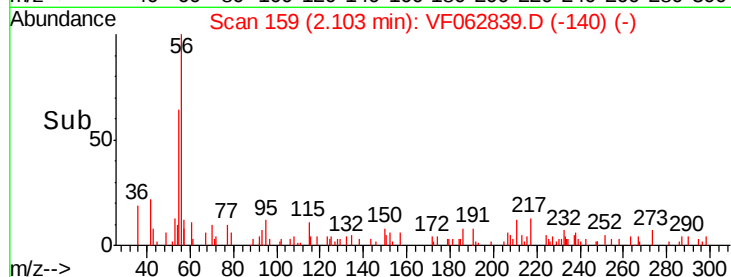
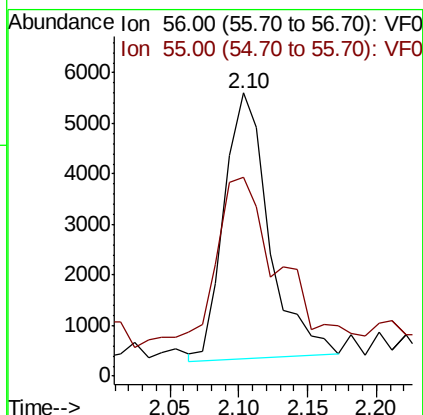
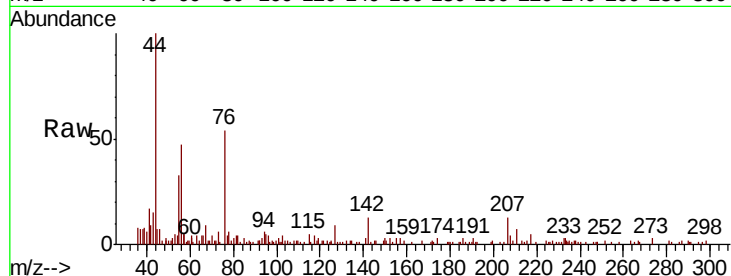
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 56 Resp: 11881

Ion Ratio Lower Upper

56 100

55 70.2 52.9 79.3



#14

Allyl chloride

Concen: 20.834 ug/l

RT: 2.20 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

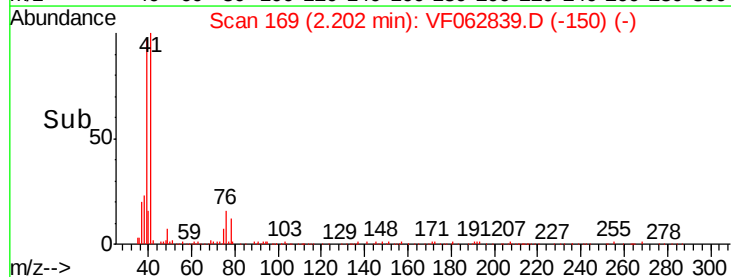
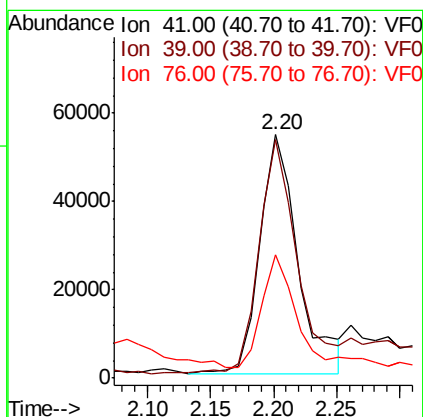
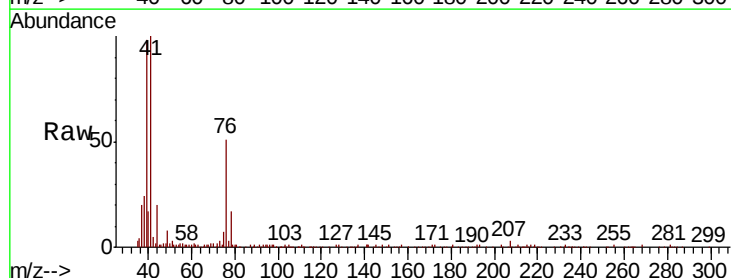
Tgt Ion: 41 Resp: 116035

Ion Ratio Lower Upper

41 100

39 98.1 71.9 107.9

76 50.7 39.6 59.4





#15

Acrylonitrile

Concen: 74.473 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

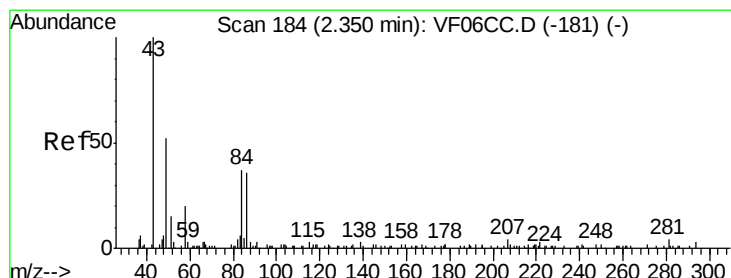
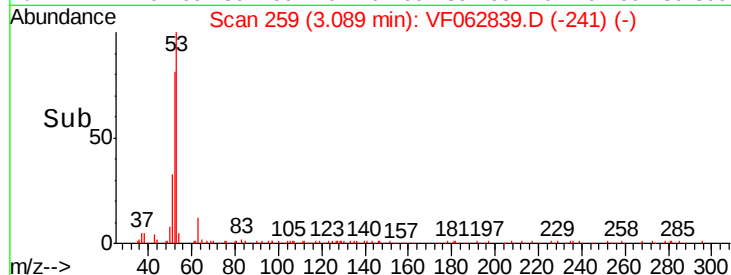
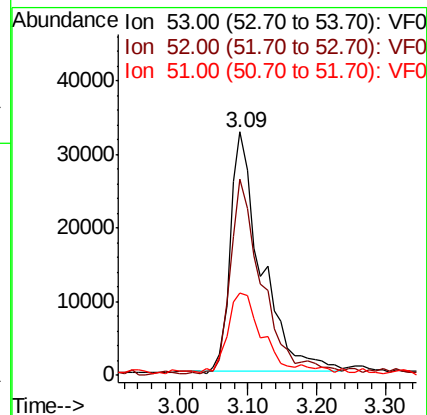
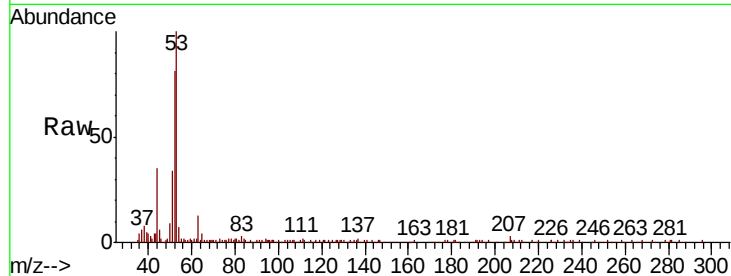
Tot Ion: 53 Resp: 101273

Ion Ratio Lower Upper

53 100

52 80.8 68.1 102.1

51 33.9 27.7 41.5



#16

Acetone

Concen: 81.116 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062839.D

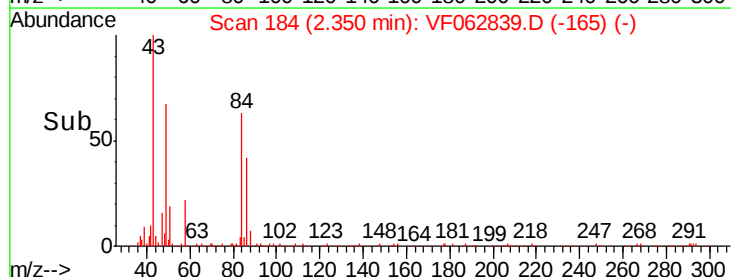
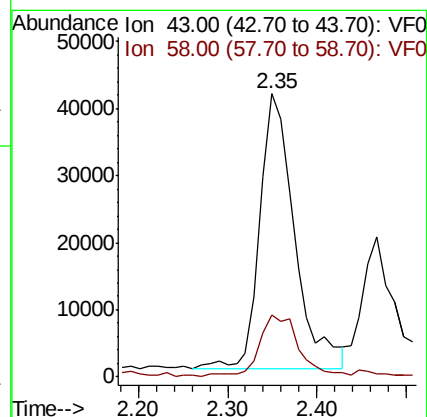
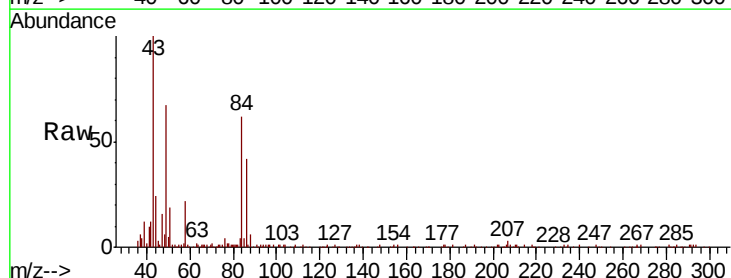
Acq: 4 Jun 2019 15:24

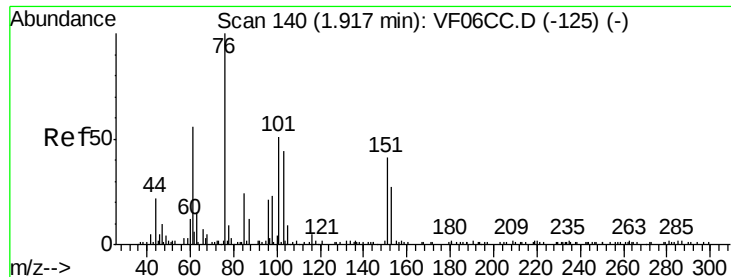
Tgt Ion: 43 Resp: 110910

Ion Ratio Lower Upper

43 100

58 22.0 19.0 28.4

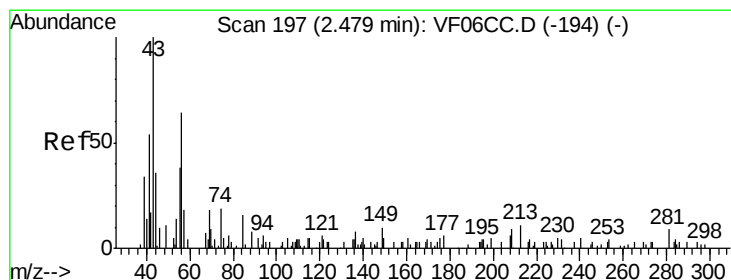
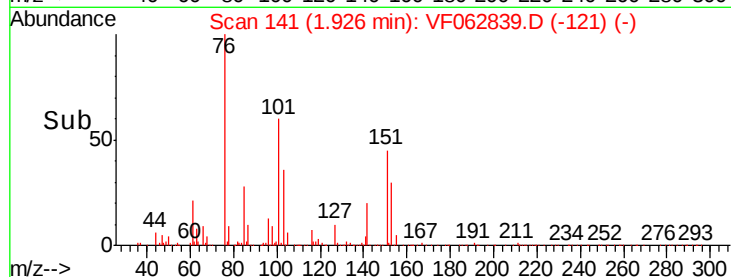
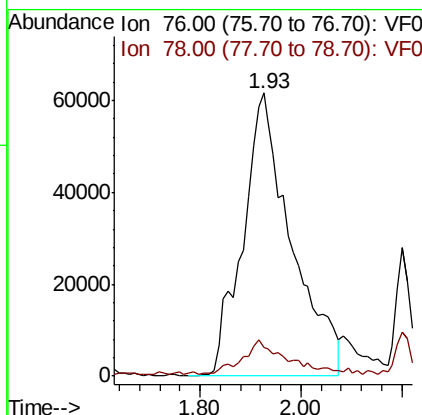
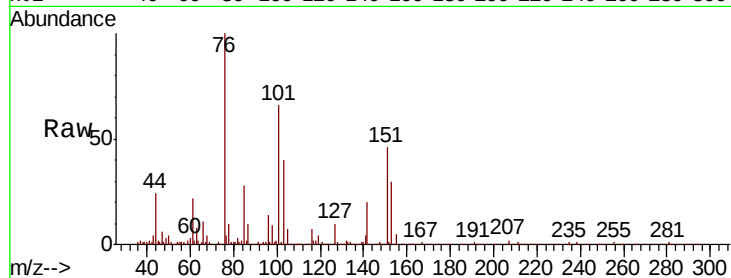




#17  
Carbon Disulfide  
Concen: 19.619 ug/l  
RT: 1.93 min Scan# 141  
Delta R.T. -0.00 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

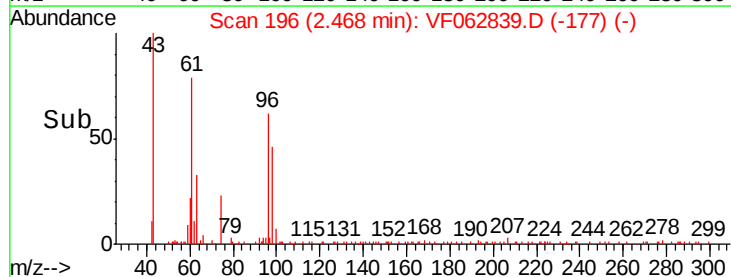
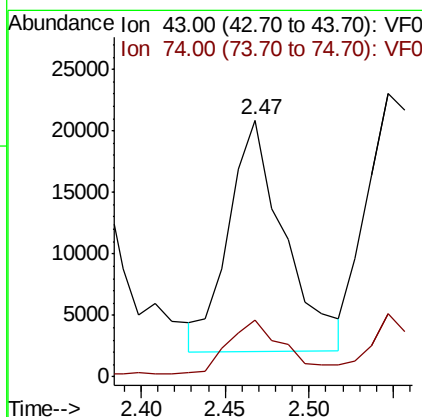
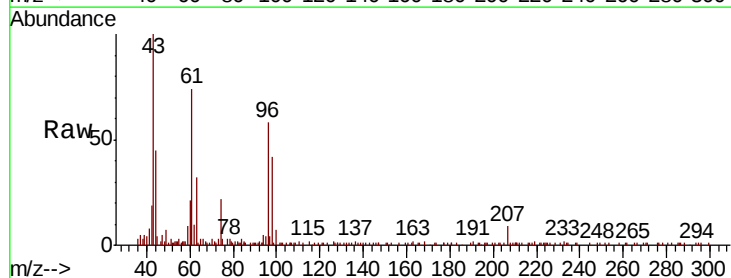
Instrument :  
MSVOA\_F  
ClientSampled :

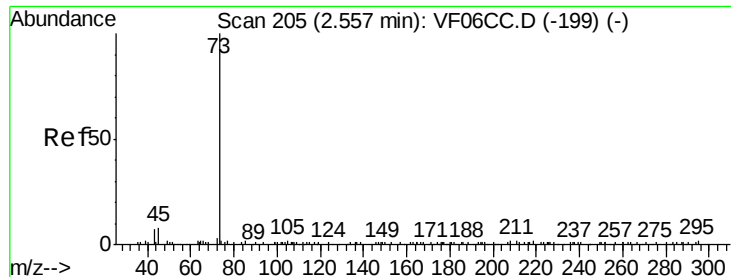
Tot Ion: 76 Resp: 411666  
Ion Ratio Lower Upper  
76 100  
78 10.0 9.4 14.2



#18  
Methyl Acetate  
Concen: 18.200 ug/l  
RT: 2.47 min Scan# 196  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion: 43 Resp: 43487  
Ion Ratio Lower Upper  
43 100  
74 22.2 22.1 33.1



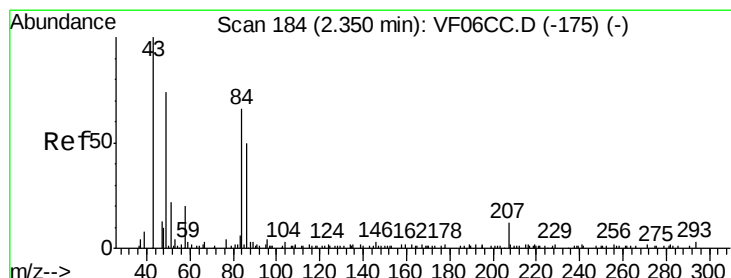
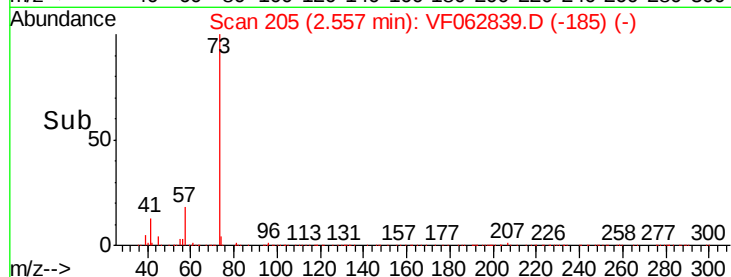
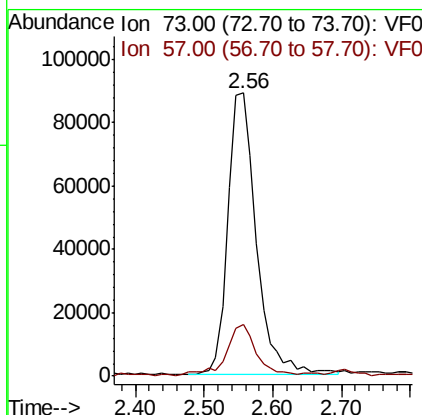
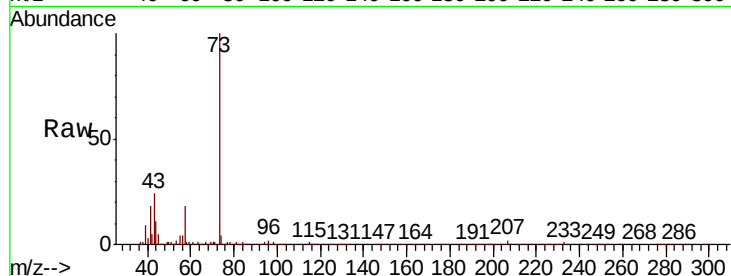


#19

Methyl tert-butyl Ether  
 Concen: 19.628 ug/l  
 RT: 2.56 min Scan# 205  
 Delta R.T. -0.00 min  
 Lab File: VF062839.D  
 Acq: 4 Jun 2019 15:24

Instrument :  
 MSVOA\_F  
 ClientSampleId :

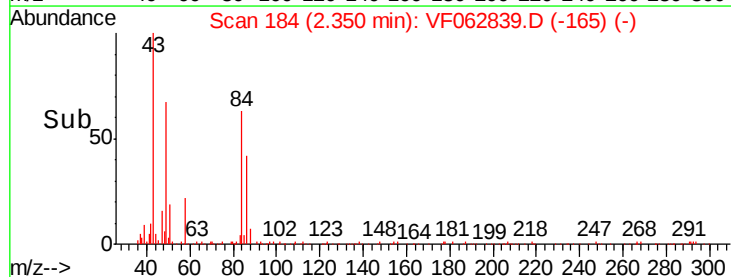
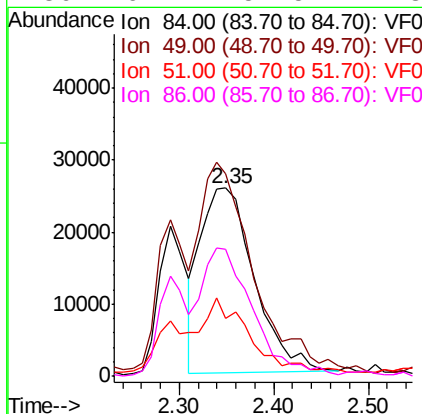
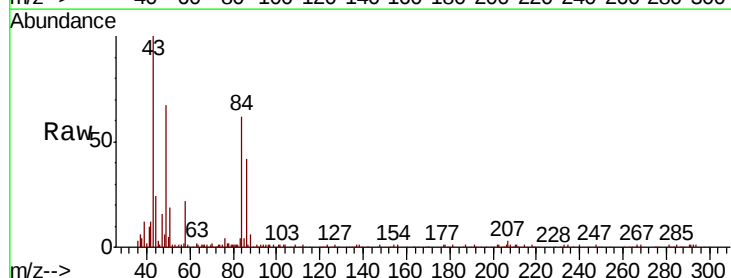
Tot Ion: 73 Resp: 255292  
 Ion Ratio Lower Upper  
 73 100  
 57 18.5 15.1 22.7

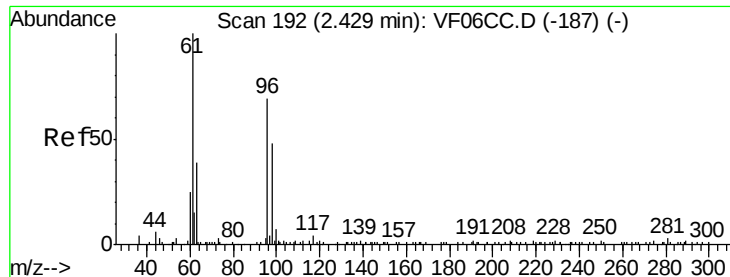


#20

Methylene Chloride  
 Concen: 12.551 ug/l  
 RT: 2.35 min Scan# 184  
 Delta R.T. -0.01 min  
 Lab File: VF062839.D  
 Acq: 4 Jun 2019 15:24

Tgt Ion: 84 Resp: 101248  
 Ion Ratio Lower Upper  
 84 100  
 49 107.6 82.6 123.8  
 51 31.0 25.0 37.4  
 86 67.4 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 21.030 ug/l

RT: 2.43 min Scan# 192

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

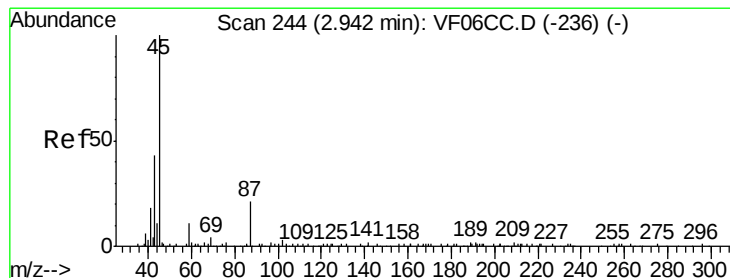
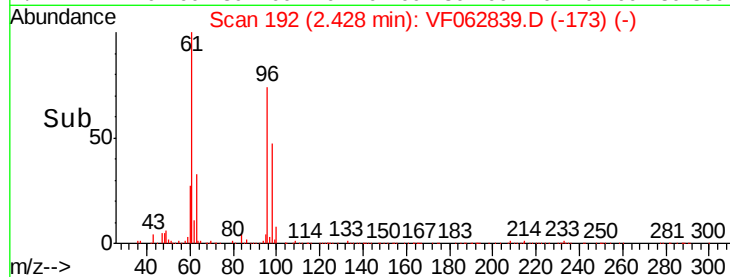
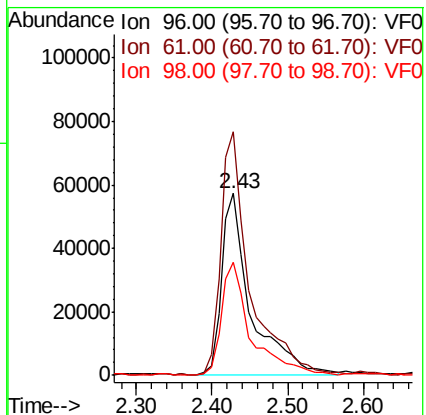
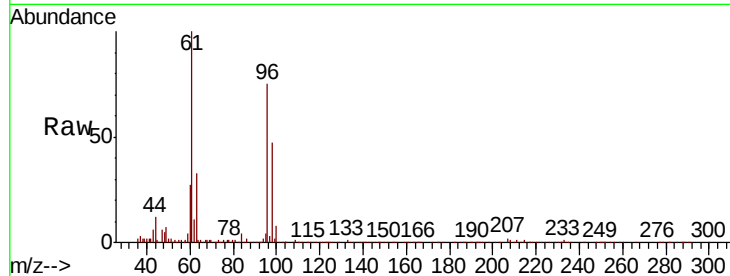
Tot Ion: 96 Resp: 151379

Ion Ratio Lower Upper

96 100

61 133.8 105.0 157.6

98 62.5 51.1 76.7



#22

Diisopropyl ether

Concen: 19.224 ug/l

RT: 2.94 min Scan# 244

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Tgt Ion: 45 Resp: 304192

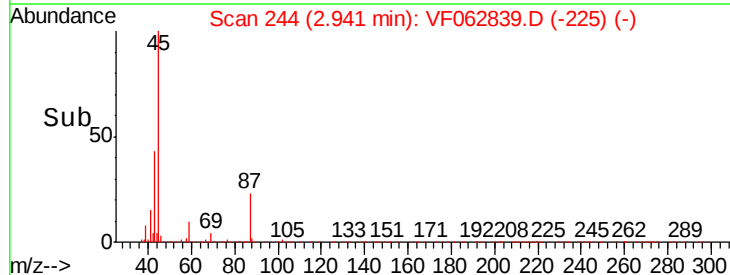
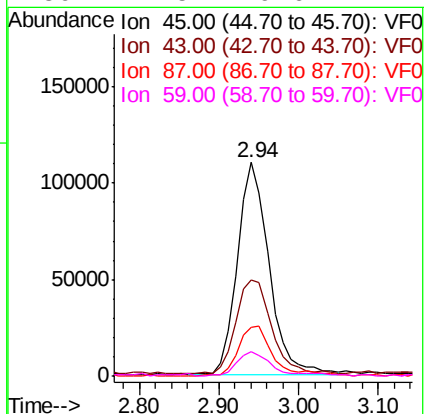
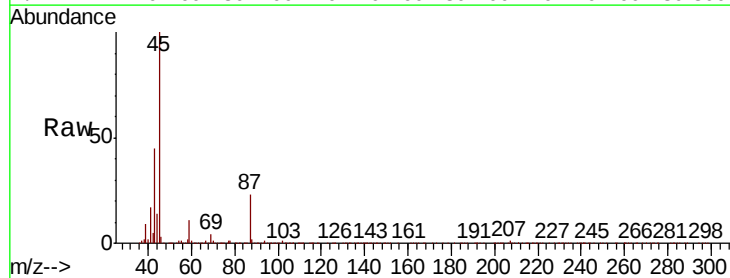
Ion Ratio Lower Upper

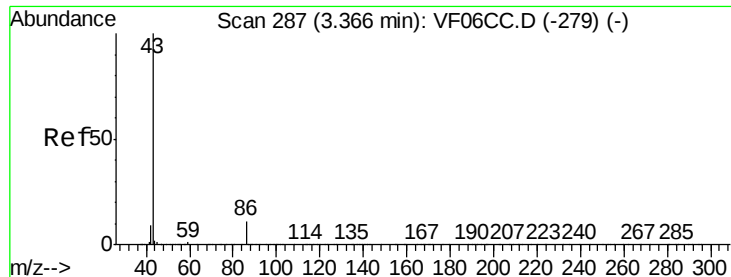
45 100

43 44.8 34.3 51.5

87 22.6 19.0 28.4

59 11.5 9.6 14.4





#23

Vinyl Acetate

Concen: 101.052 ug/l

RT: 3.35 min Scan# 285

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

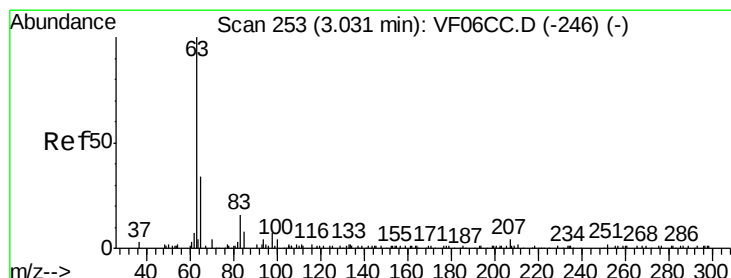
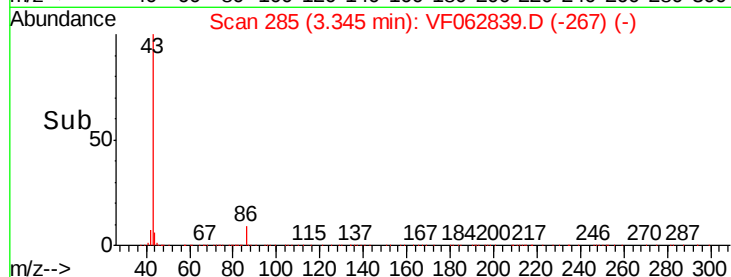
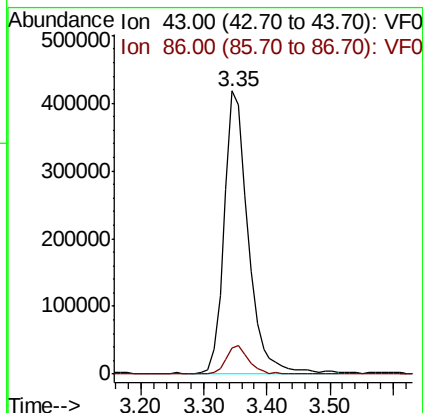
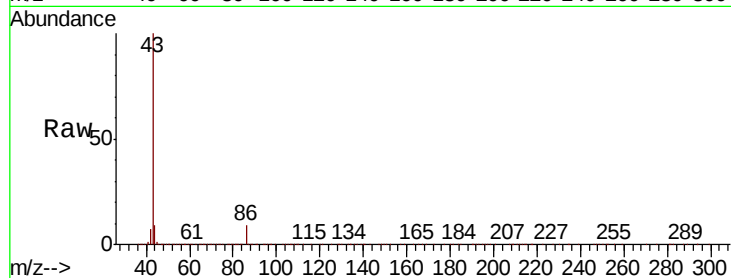
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 43 Resp: 1094688

Ion Ratio Lower Upper

43 100

86 9.4 8.2 12.2



#24

1,1-Dichloroethane

Concen: 20.876 ug/l

RT: 3.01 min Scan# 251

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

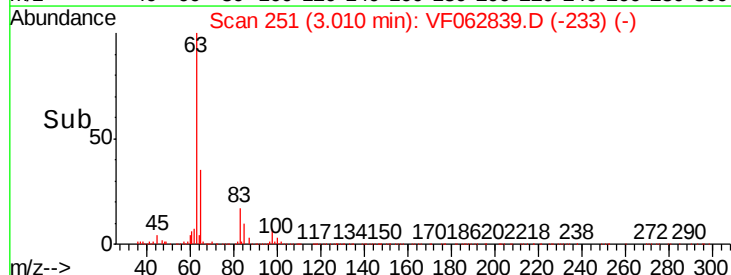
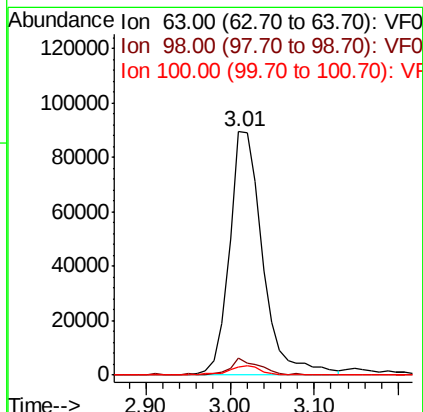
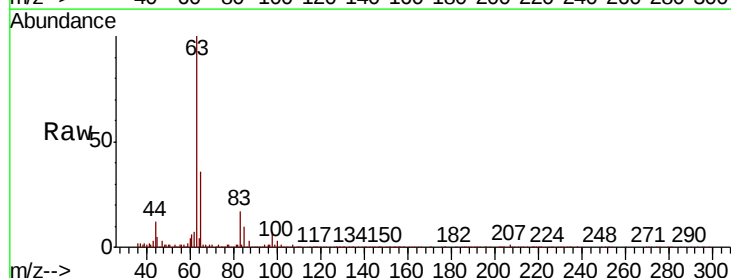
Tgt Ion: 63 Resp: 246634

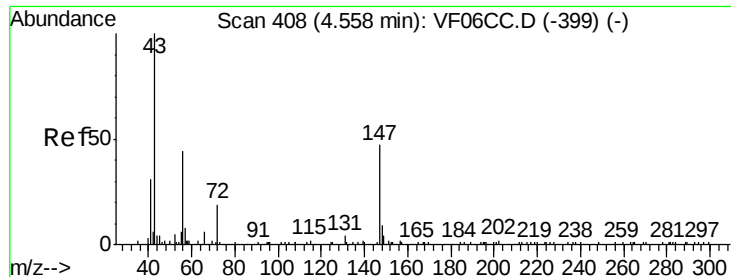
Ion Ratio Lower Upper

63 100

98 6.8 2.4 7.1

100 3.4 1.5 4.5

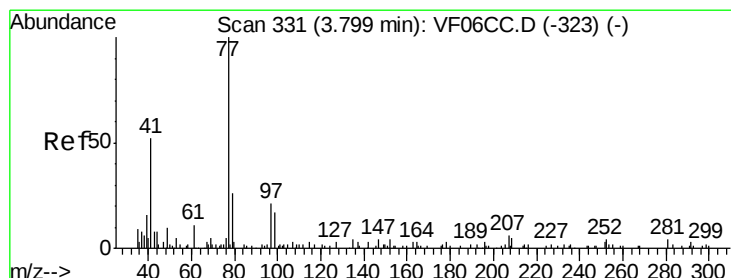
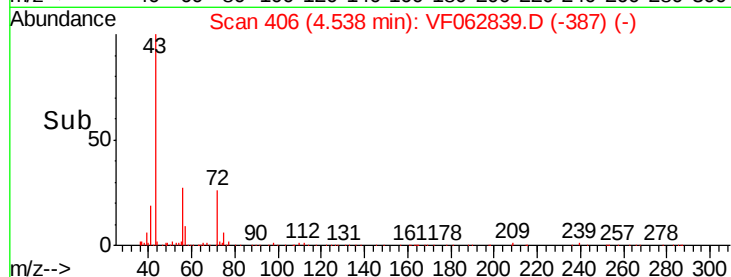
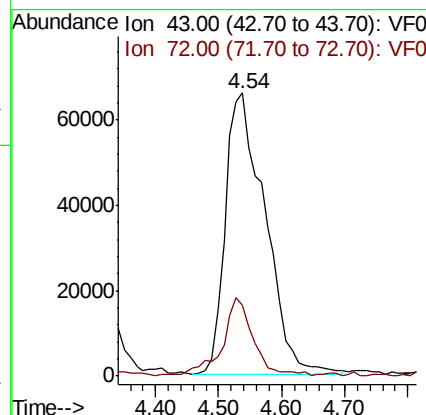
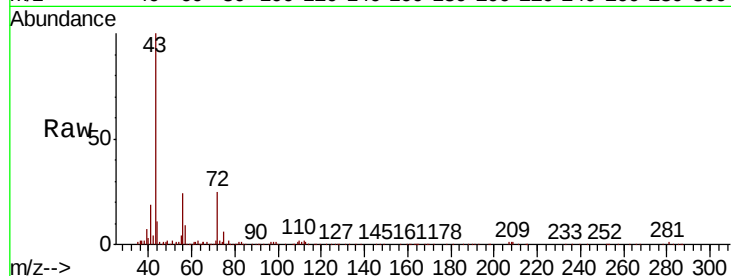




#25  
2-Butanone  
Concen: 90.180 ug/l  
RT: 4.54 min Scan# 406  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

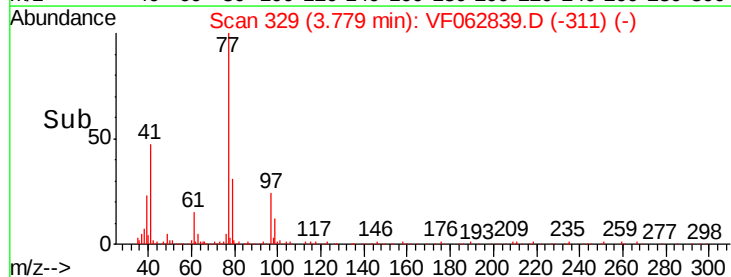
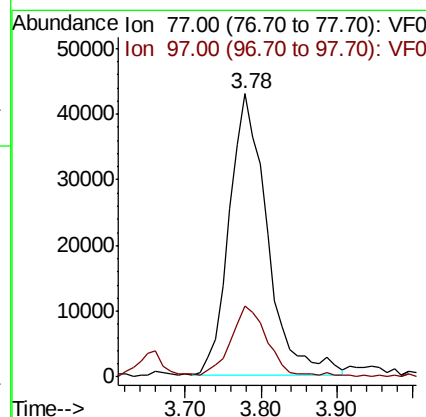
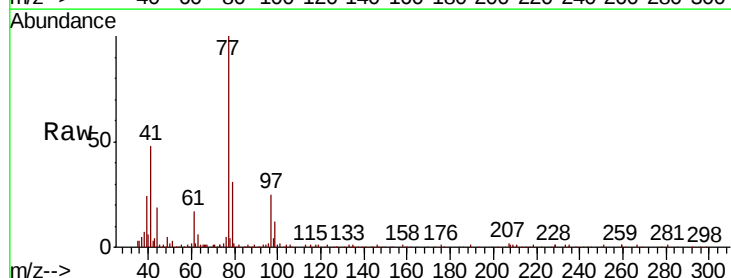
Instrument :  
MSVOA\_F  
ClientSampled :

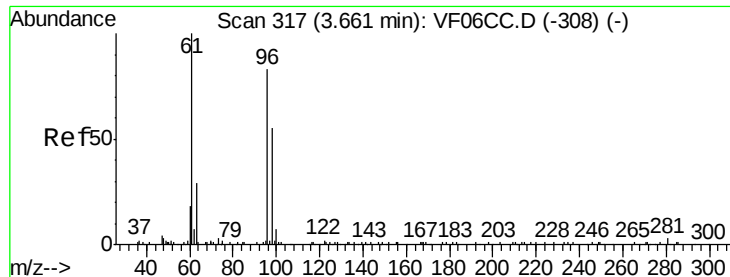
Tot Ion: 43 Resp: 287146  
Ion Ratio Lower Upper  
43 100  
72 25.1 21.4 32.0



#26  
2,2-Dichloropropane  
Concen: 22.249 ug/l  
RT: 3.78 min Scan# 329  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion: 77 Resp: 149253  
Ion Ratio Lower Upper  
77 100  
97 25.1 12.4 37.4



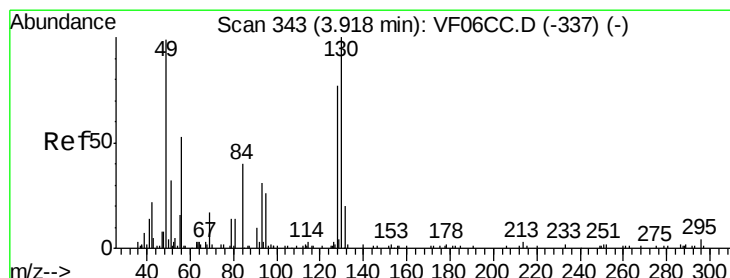
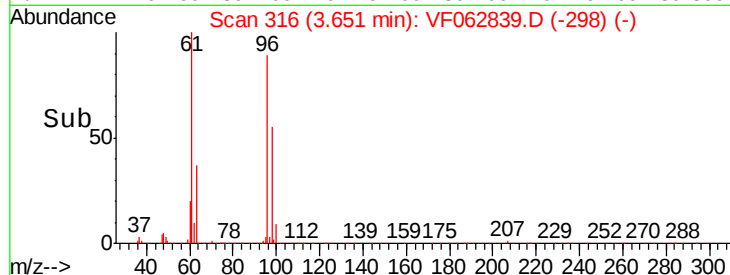
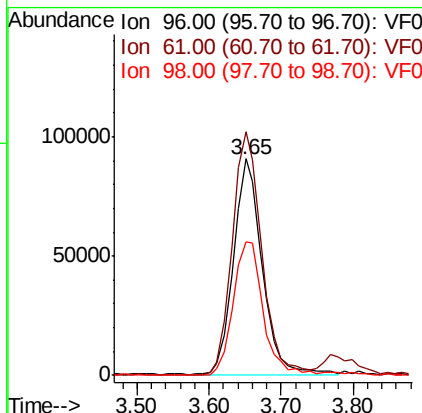
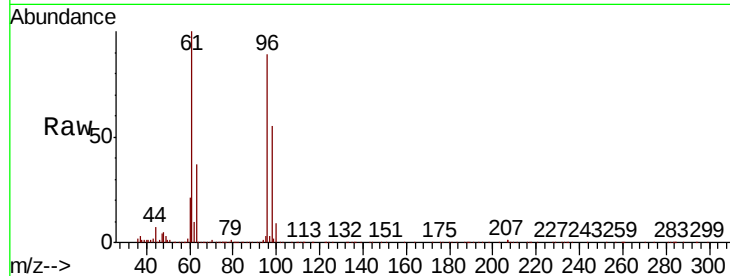


#27

cis-1,2-Dichloroethene  
Concen: 20.848 ug/l  
RT: 3.65 min Scan# 316  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

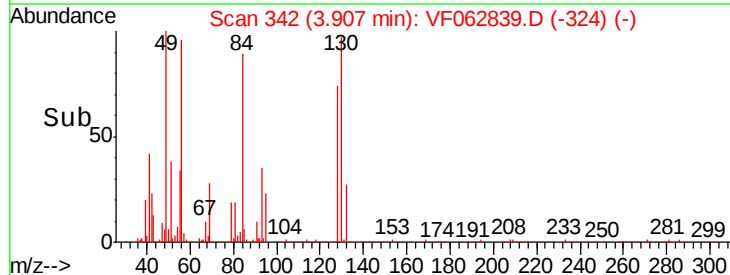
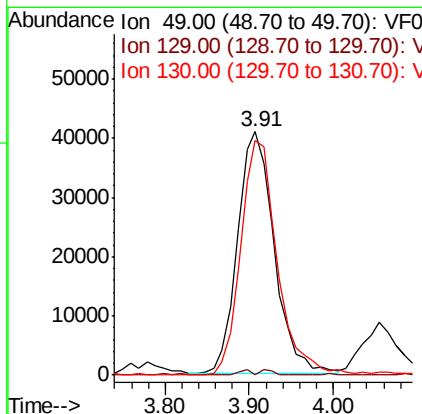
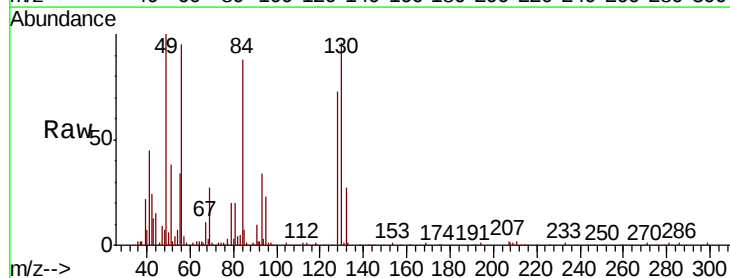
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 112.4 | 0.0   | 213.8 |
| 98      | 62.0  | 0.0   | 127.0 |

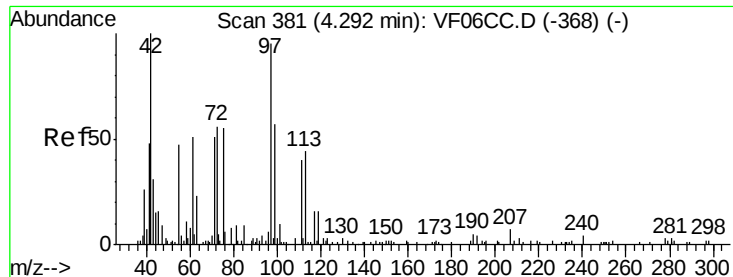


#28

Bromochloromethane  
Concen: 19.318 ug/l  
RT: 3.91 min Scan# 342  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 0.0   | 0.0   | 5.4   |
| 130     | 96.4  | 79.2  | 118.8 |

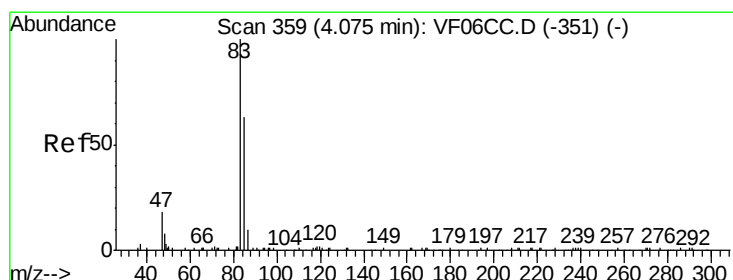
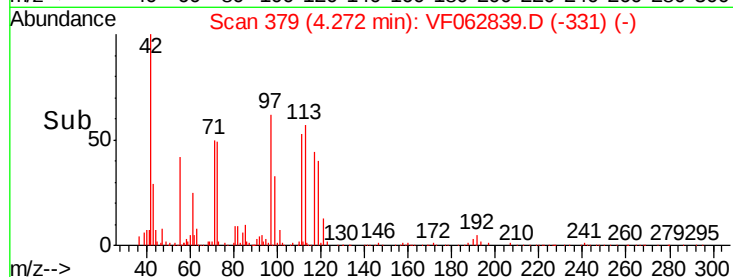
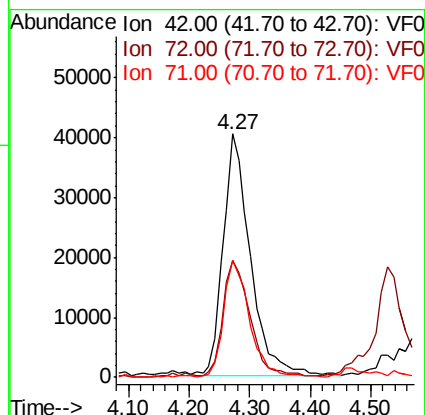
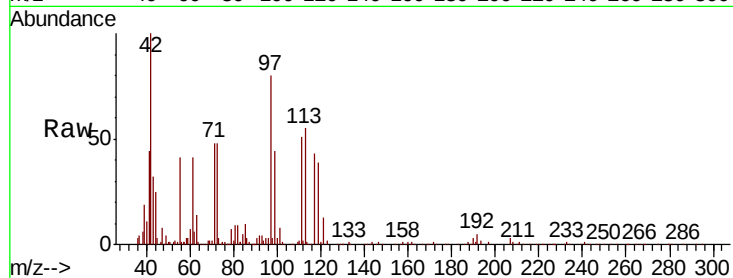




#29  
Tetrahydrofuran  
Concen: 103.618 ug/l  
RT: 4.27 min Scan# 379  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

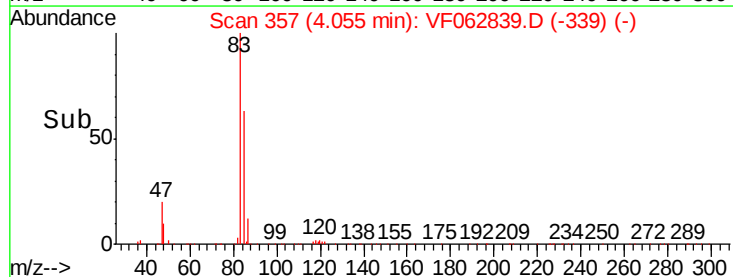
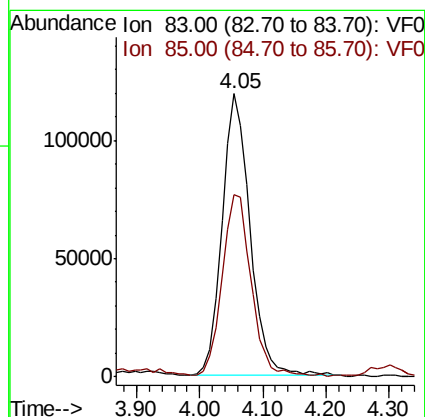
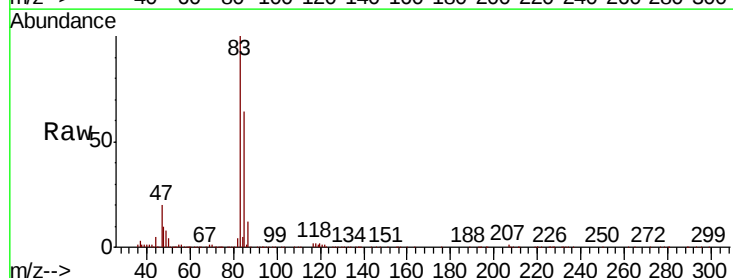
Instrument :  
MSVOA\_F  
ClientSampleId :

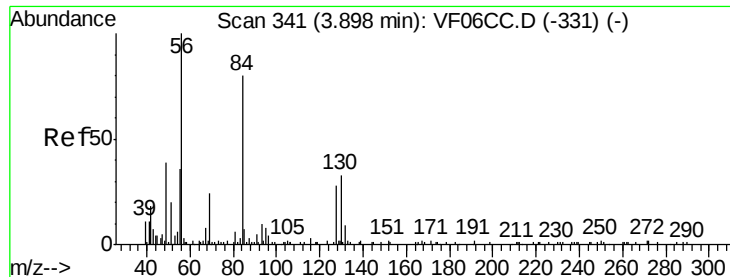
Tot Ion: 42 Resp: 126191  
Ion Ratio Lower Upper  
42 100  
72 48.0 39.0 58.6  
71 46.7 36.9 55.3



#30  
Chloroform  
Concen: 21.969 ug/l  
RT: 4.05 min Scan# 357  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion: 83 Resp: 365798  
Ion Ratio Lower Upper  
83 100  
85 64.5 55.0 82.6

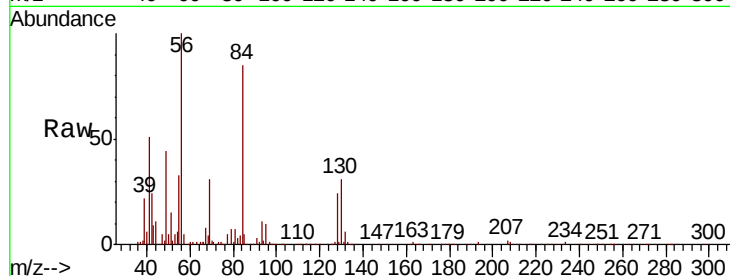




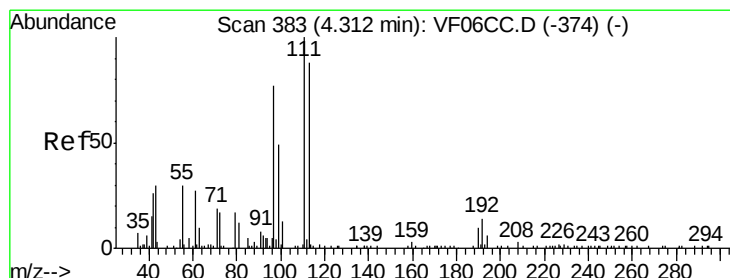
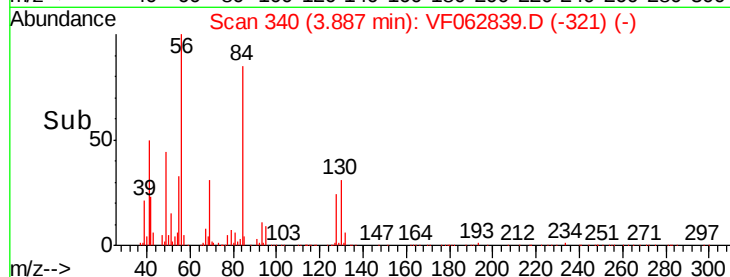
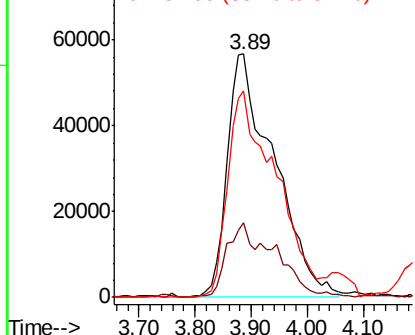
#31  
Cyclohexane  
Concen: 20.566 ug/l  
RT: 3.89 min Scan# 340  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 56 Resp: 328963  
Ion Ratio Lower Upper  
56 100  
69 30.8 26.7 40.1  
84 84.9 74.3 111.5

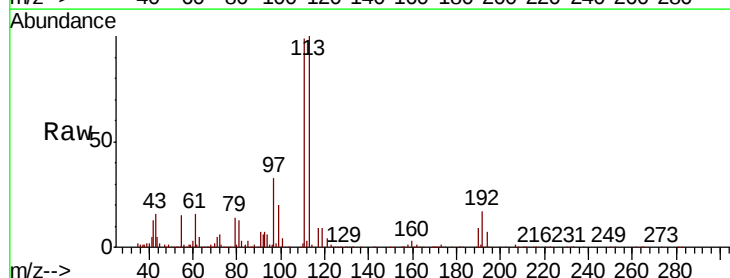


Abundance Ion 56.00 (55.70 to 56.70): VF0  
Ion 69.00 (68.70 to 69.70): VF0  
Ion 84.00 (83.70 to 84.70): VF0

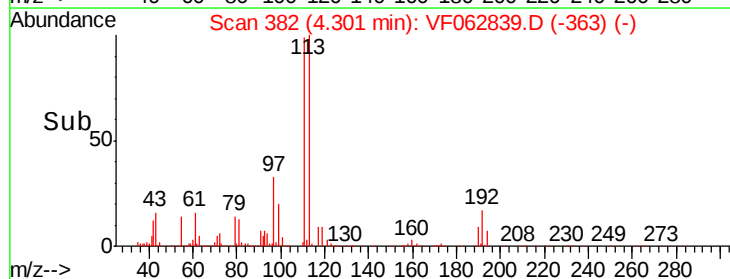
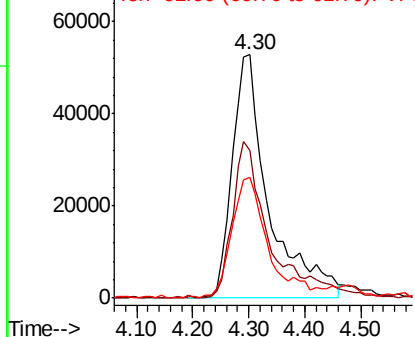


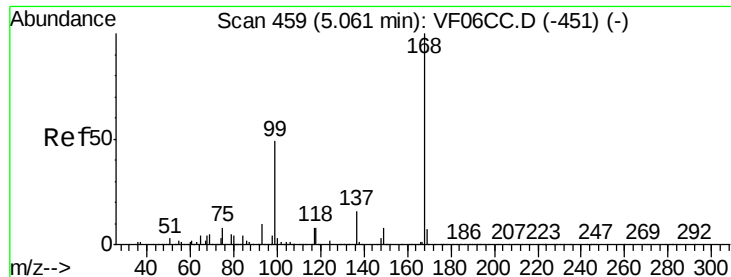
#32  
1,1,1-Trichloroethane  
Concen: 24.664 ug/l  
RT: 4.30 min Scan# 382  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion: 97 Resp: 239111  
Ion Ratio Lower Upper  
97 100  
99 60.8 51.7 77.5  
61 49.5 38.9 58.3



Abundance Ion 97.00 (96.70 to 97.70): VF0  
Ion 99.00 (98.70 to 99.70): VF0  
Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 52.767 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

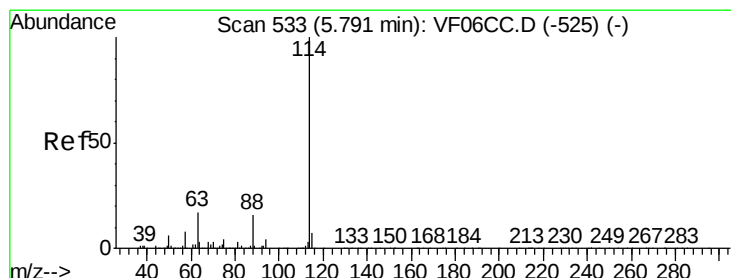
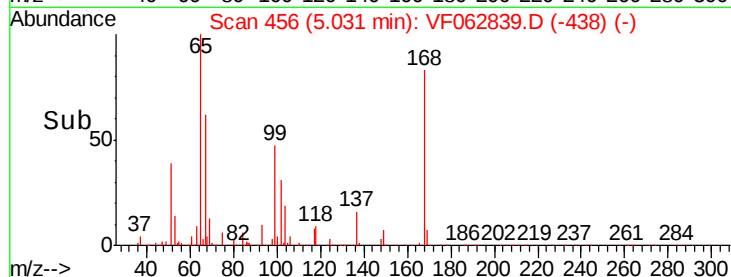
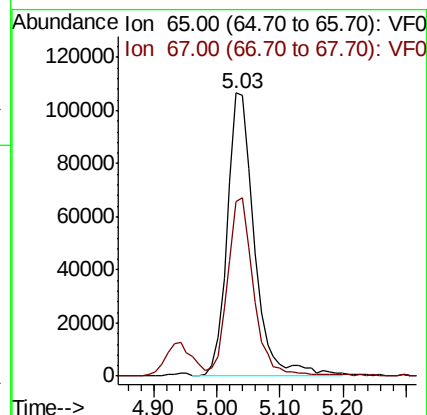
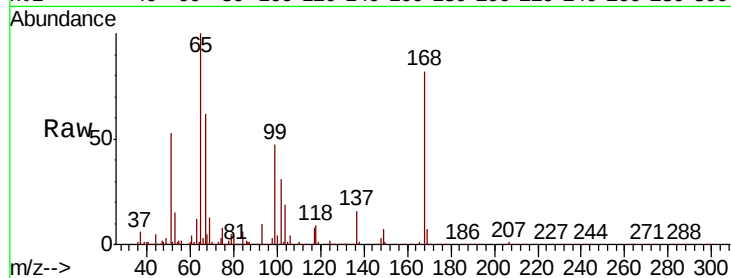
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 65 Resp: 315227

Ion Ratio Lower Upper

65 100

67 61.7 0.0 121.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

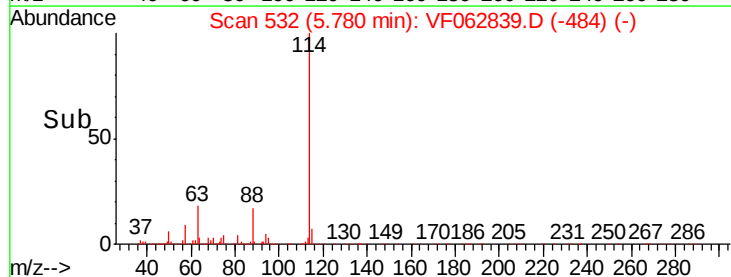
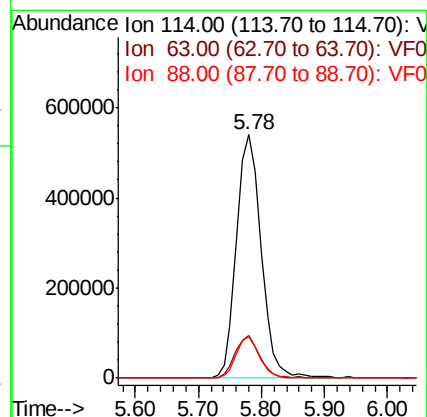
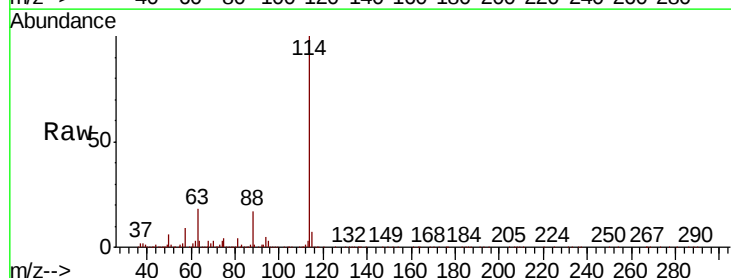
Tgt Ion: 114 Resp: 1464359

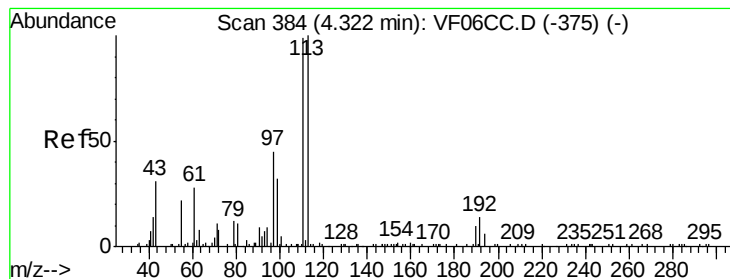
Ion Ratio Lower Upper

114 100

63 17.6 0.0 34.2

88 16.8 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.569 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

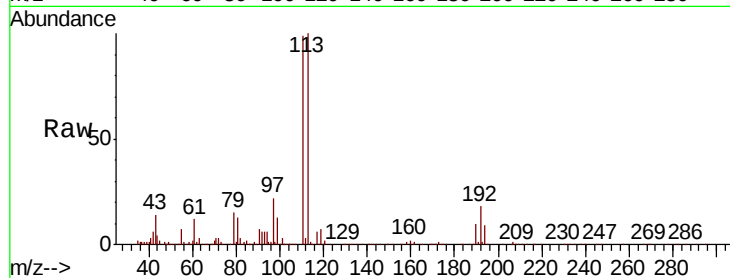
Tot Ion:113 Resp: 559570

Ion Ratio Lower Upper

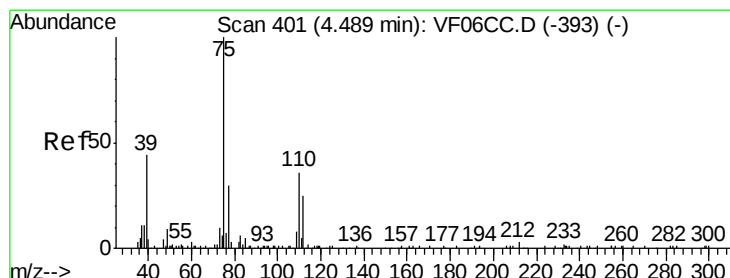
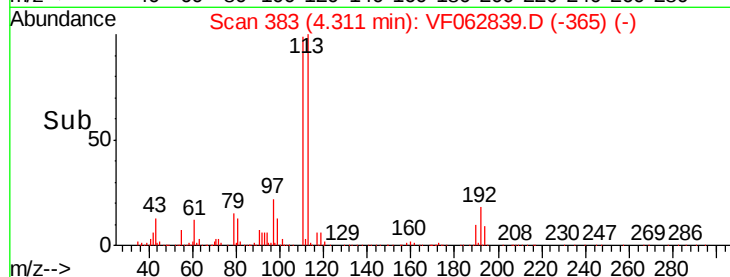
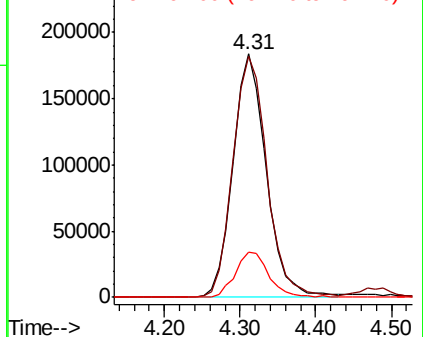
113 100

111 98.9 81.9 122.9

192 18.4 15.1 22.7



Abundance Ion 113.00 (112.70 to 113.70): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 20.908 ug/l

RT: 4.48 min Scan# 400

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

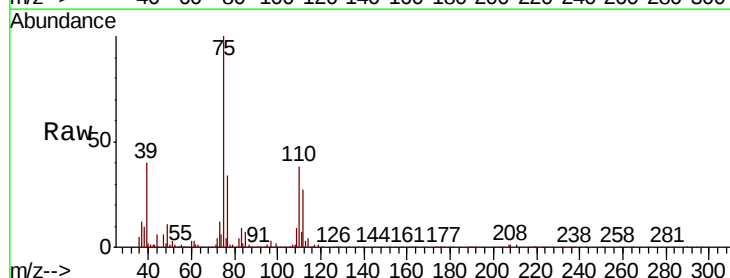
Tgt Ion: 75 Resp: 281860

Ion Ratio Lower Upper

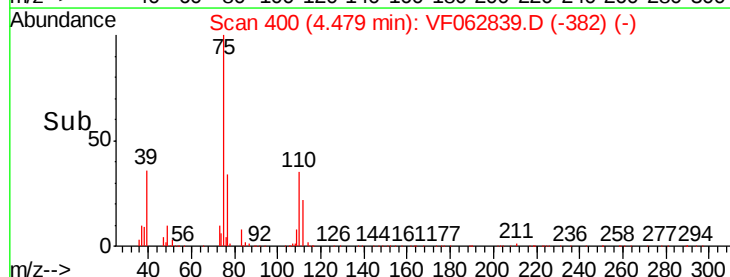
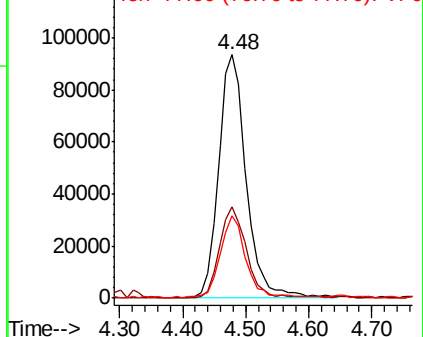
75 100

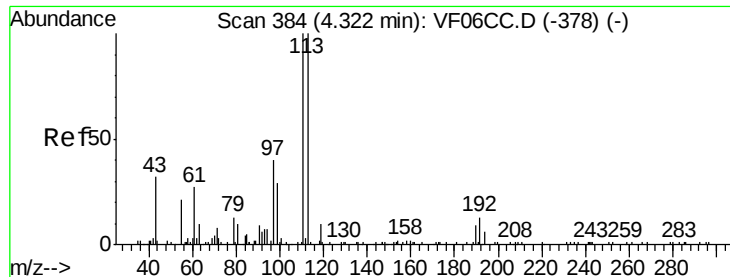
110 37.6 19.4 58.1

77 33.7 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VF0  
Ion 110.00 (109.70 to 110.70): V  
Ion 77.00 (76.70 to 77.70): VF0

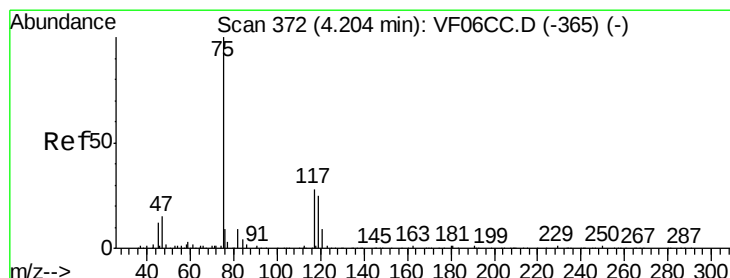
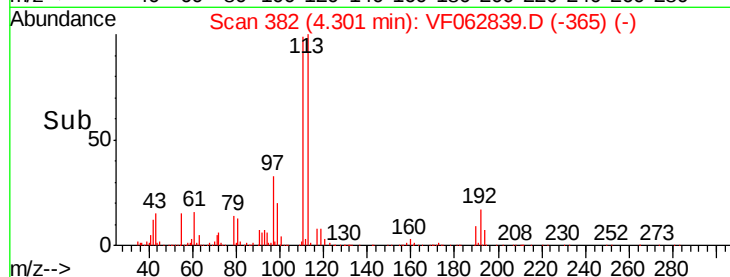
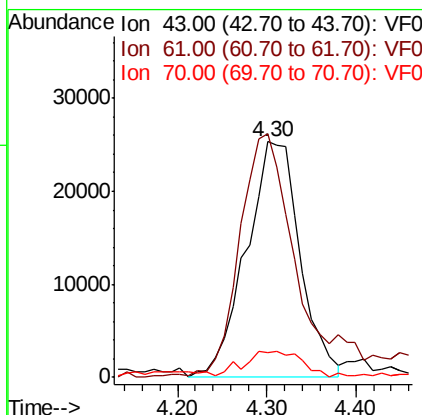
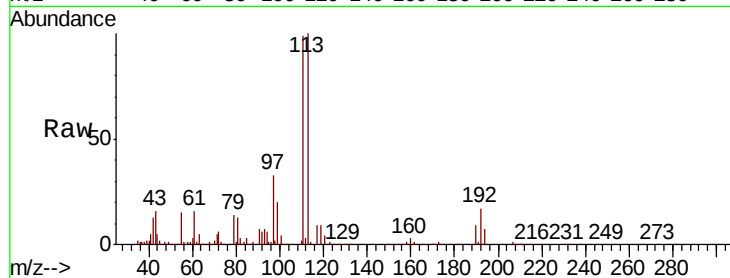




#37  
Ethyl Acetate  
Concen: 20.608 ug/l  
RT: 4.30 min Scan# 382  
Delta R.T. -0.03 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

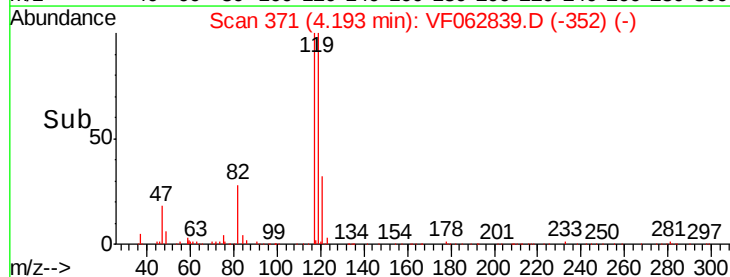
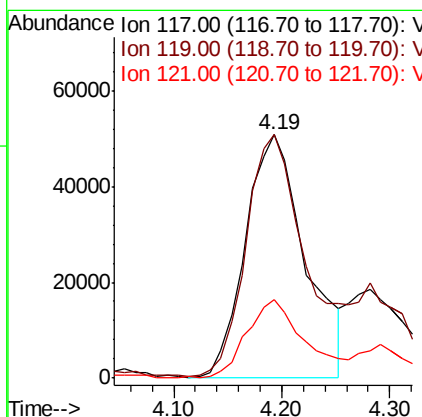
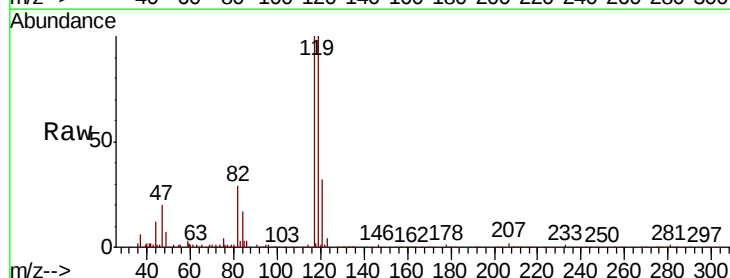
Instrument :  
MSVOA\_F  
ClientSampleId :

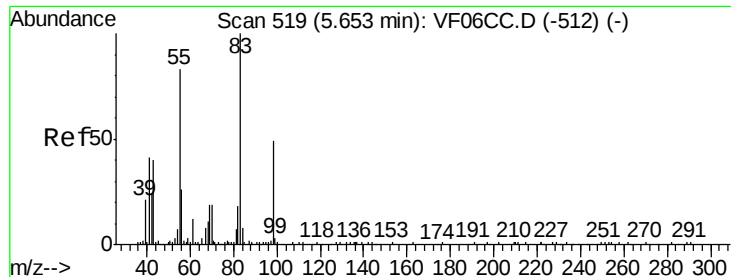
| Tot Ion   | 43    | Resp  | 106199 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 61        | 103.4 | 59.1  | 88.7#  |
| 70        | 10.7  | 10.1  | 15.1   |



#38  
Carbon Tetrachloride  
Concen: 21.406 ug/l  
RT: 4.19 min Scan# 371  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

| Tgt Ion   | 117   | Resp  | 195027 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 100.0 | 78.2  | 117.2  |
| 121       | 32.3  | 28.2  | 42.2   |

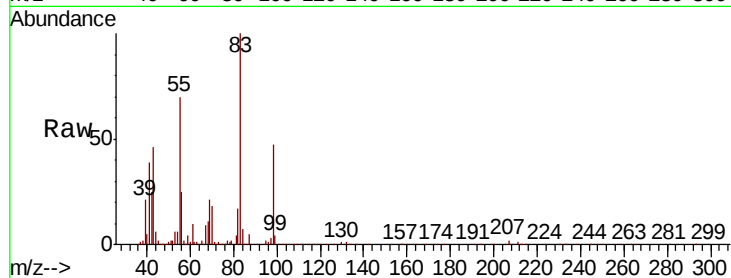




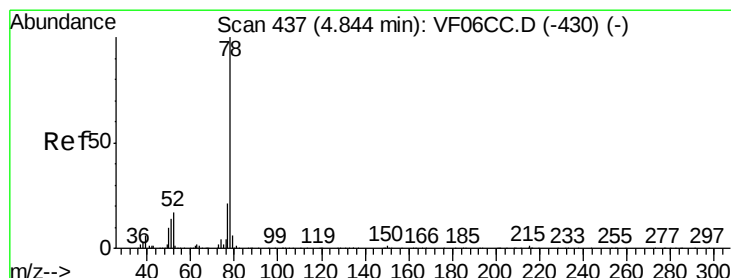
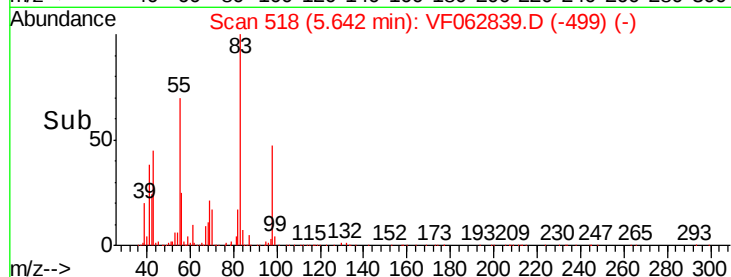
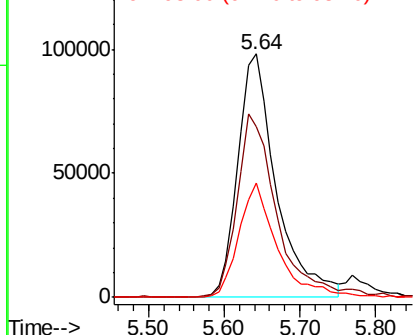
#39  
Methvlcvclohexane  
Concen: 20.749 ug/l  
RT: 5.64 min Scan# 518  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 70.3  | 61.6  | 92.4  |
| 98      | 46.9  | 37.4  | 56.2  |

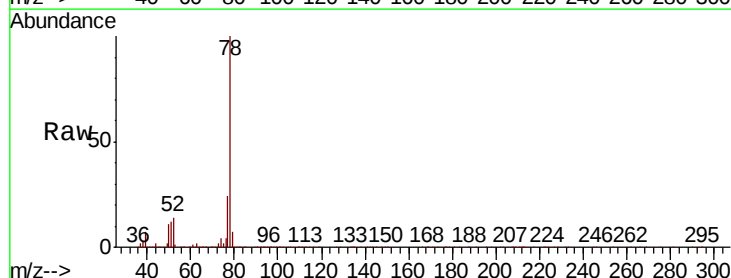


Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 55.00 (54.70 to 55.70): VF0  
Ion 98.00 (97.70 to 98.70): VF0

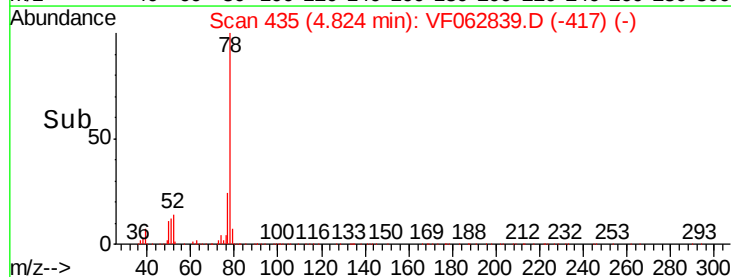
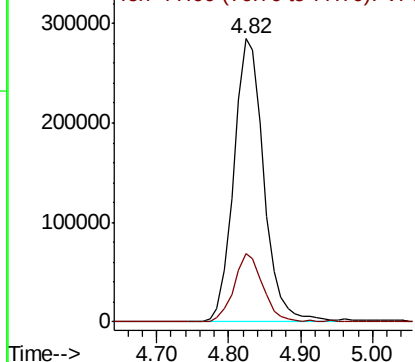


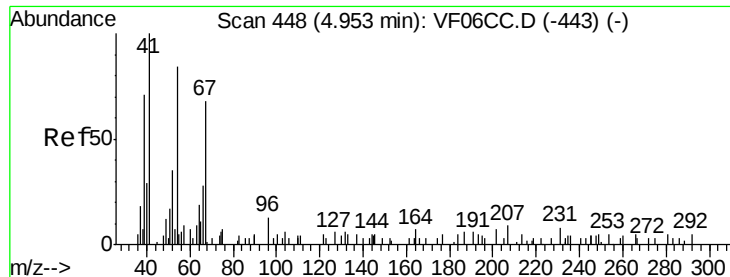
#40  
Benzene  
Concen: 21.128 ug/l  
RT: 4.82 min Scan# 435  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 24.0  | 18.9  | 28.3  |



Abundance Ion 78.10 (77.80 to 78.80): VF0  
Ion 77.00 (76.70 to 77.70): VF0





#41

Methacrylonitrile

Concen: 19.237 ug/l

RT: 4.94 min Scan# 447

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

ClientSampleId :

Tot Ion: 41 Resp: 55109

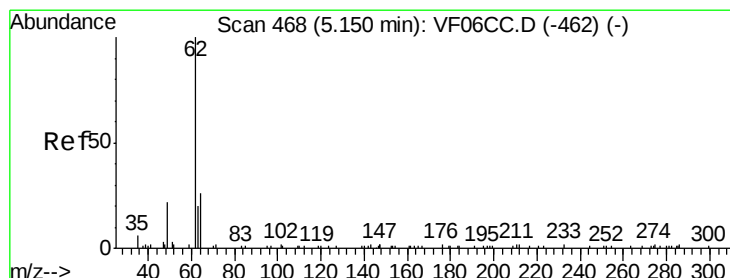
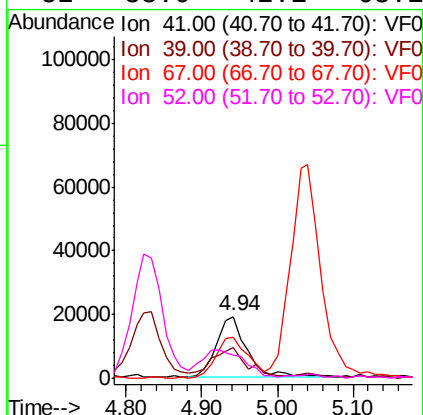
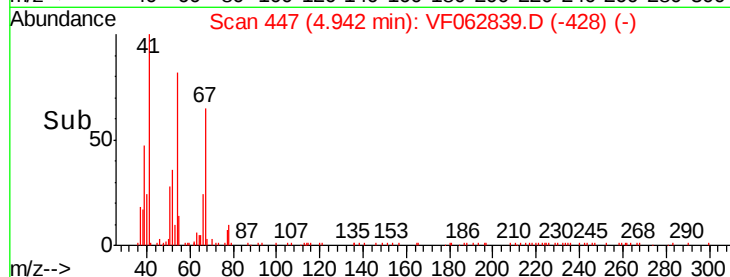
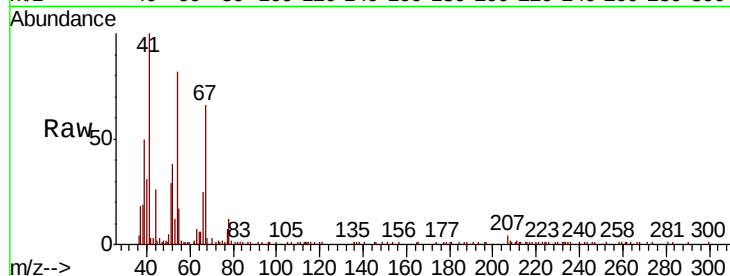
Ion Ratio Lower Upper

41 100

39 50.4 42.0 63.0

67 65.6 61.4 92.0

52 38.0 42.1 63.1#



#42

1,2-Dichloroethane

Concen: 20.493 ug/l

RT: 5.13 min Scan# 466

Delta R.T. -0.02 min

Lab File: VF062839.D

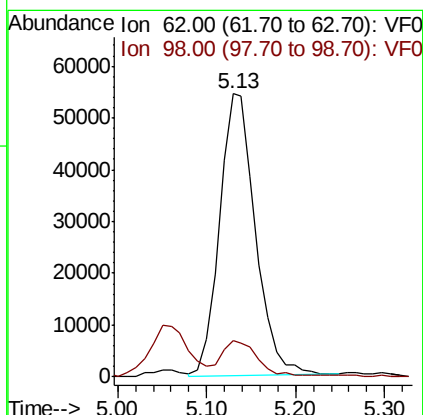
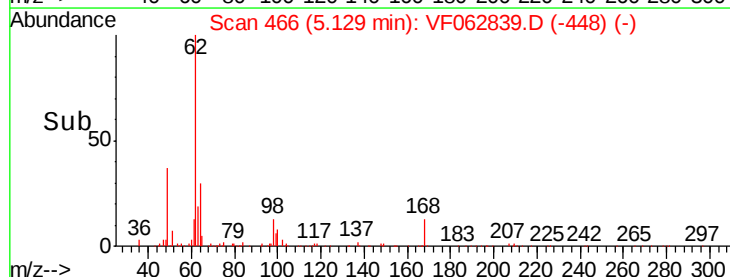
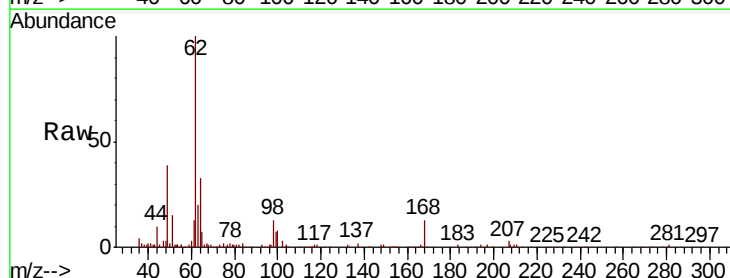
Acq: 4 Jun 2019 15:24

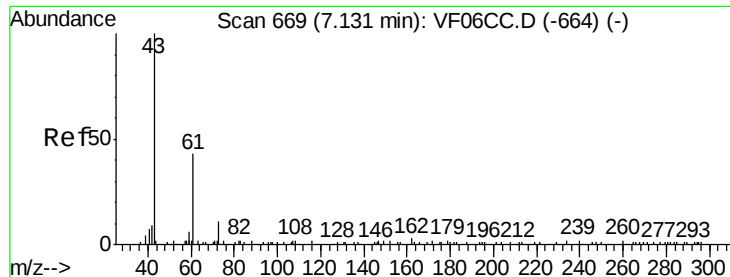
Tgt Ion: 62 Resp: 152918

Ion Ratio Lower Upper

62 100

98 12.8 0.0 24.0

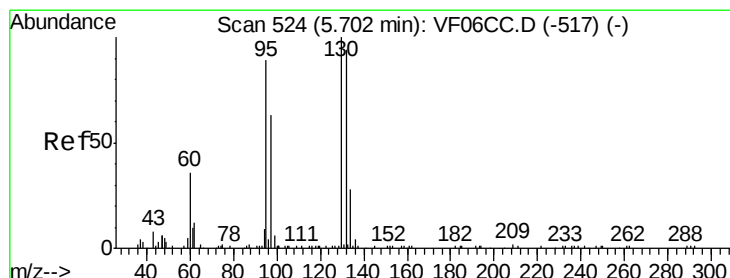
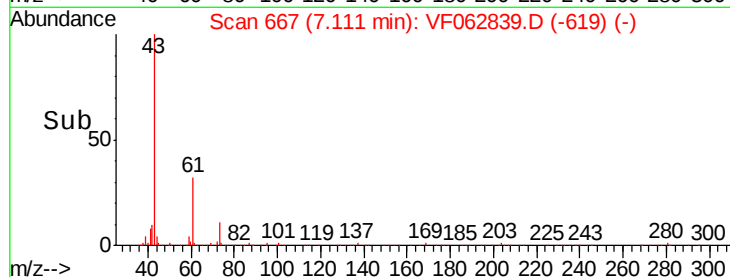
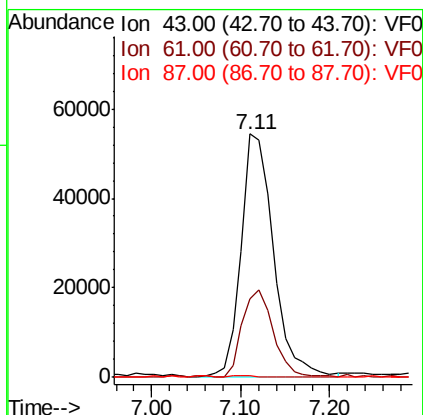
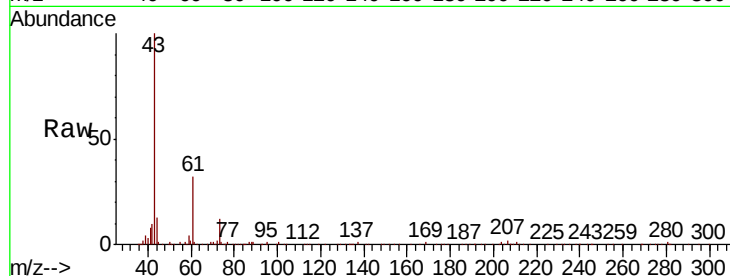




#43  
Isopropyl Acetate  
Concen: 19.960 ug/l  
RT: 7.11 min Scan# 667  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

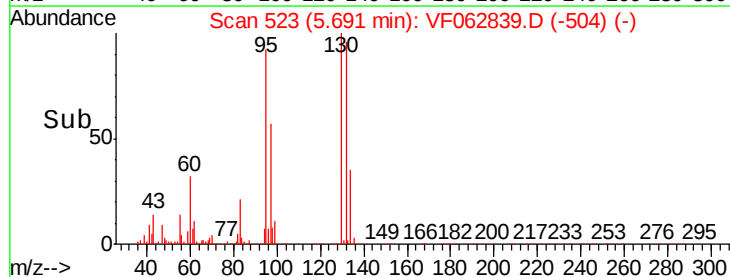
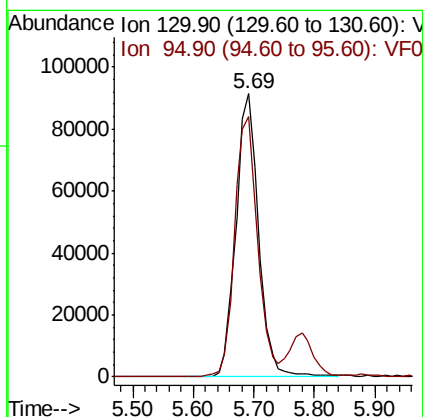
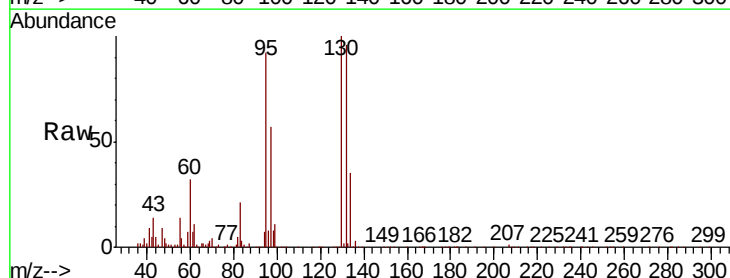
Instrument :  
MSVOA\_F  
ClientSampleId :

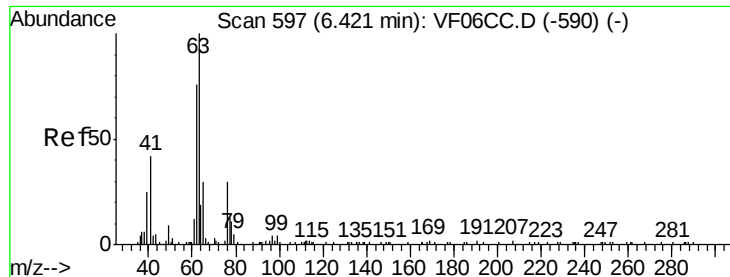
Tot Ion: 43 Resp: 135876  
Ion Ratio Lower Upper  
43 100  
61 32.0 29.8 44.6  
87 0.6 0.3 0.5#



#44  
Trichloroethene  
Concen: 21.525 ug/l  
RT: 5.69 min Scan# 523  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion:130 Resp: 238344  
Ion Ratio Lower Upper  
130 100  
95 92.1 0.0 188.2





#45

1,2-Dichloropropane

Concen: 19.889 ug/l

RT: 6.41 min Scan# 596

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

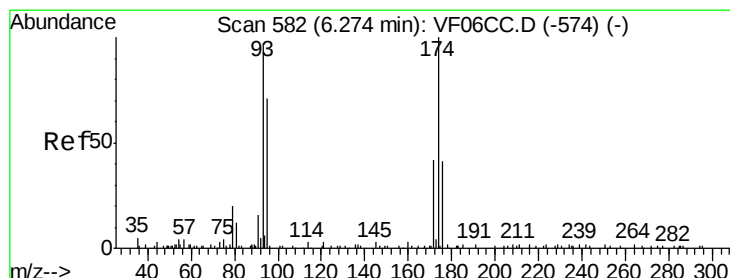
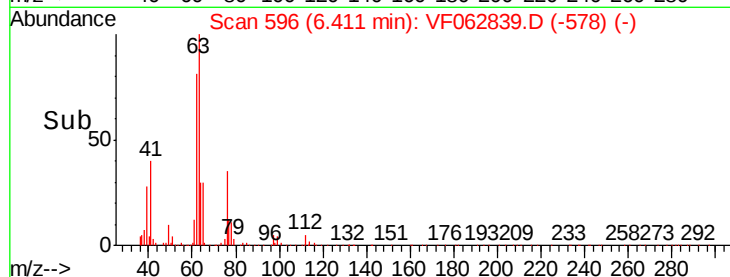
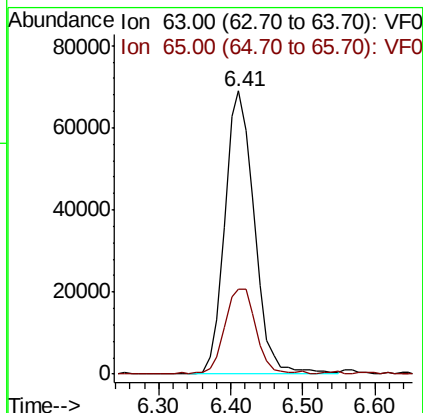
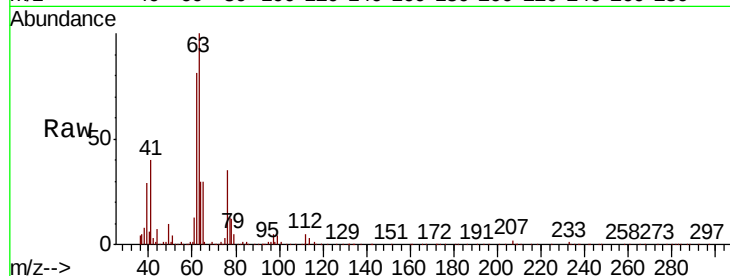
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 63 Resp: 195817

Ion Ratio Lower Upper

63 100

65 30.1 24.2 36.2



#46

Dibromomethane

Concen: 20.920 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

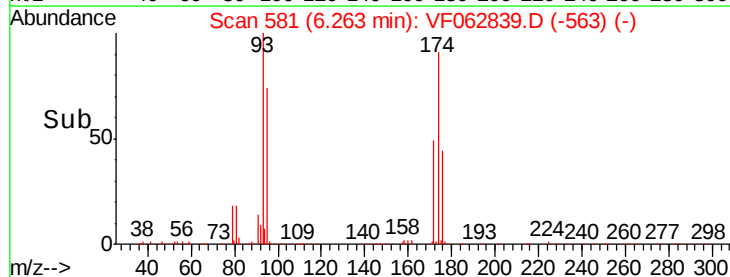
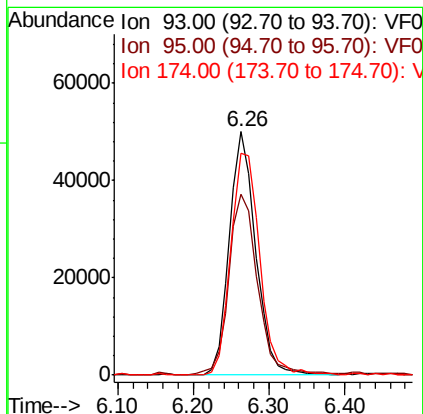
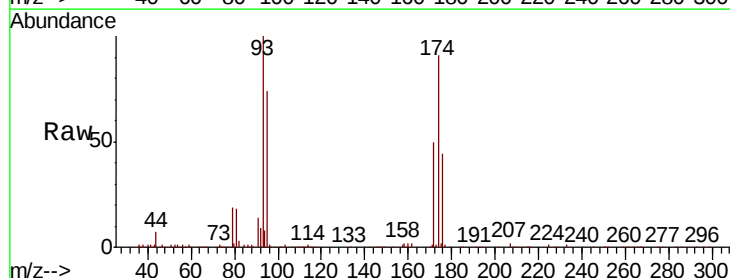
Tgt Ion: 93 Resp: 120256

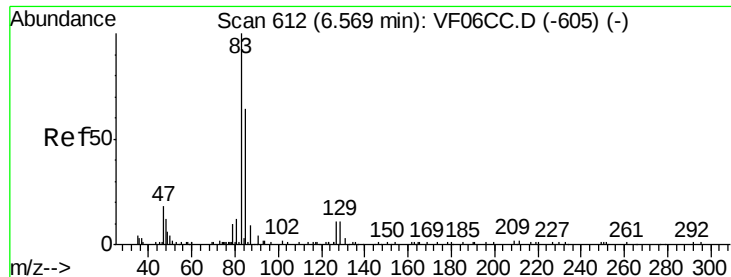
Ion Ratio Lower Upper

93 100

95 74.5 67.9 101.9

174 91.0 85.0 127.4





#47

Bromodichloromethane

Concen: 20.381 ug/l

RT: 6.56 min Scan# 611

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

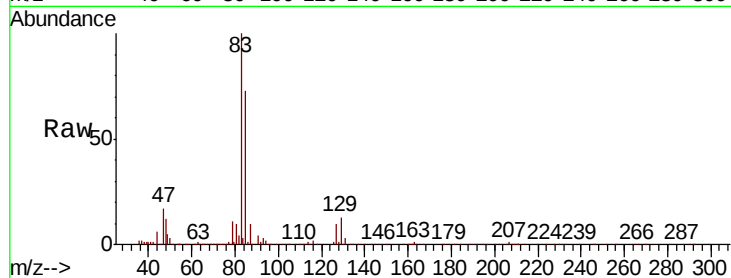
Tot Ion: 83 Resp: 238590

Ion Ratio Lower Upper

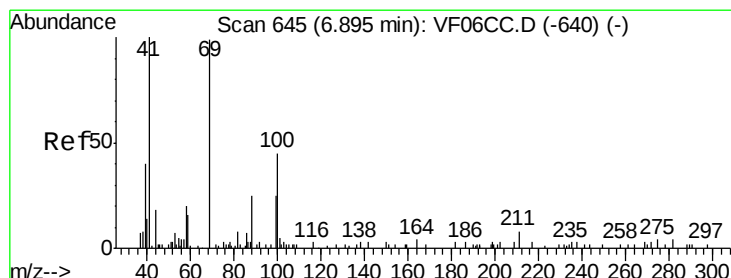
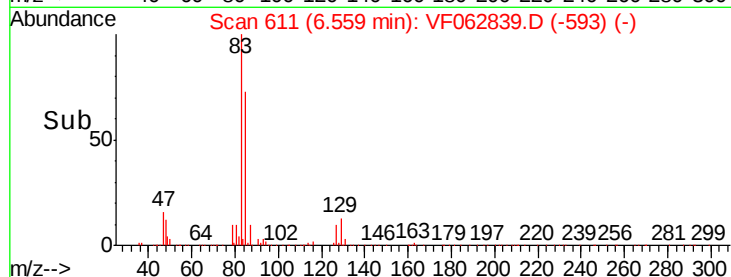
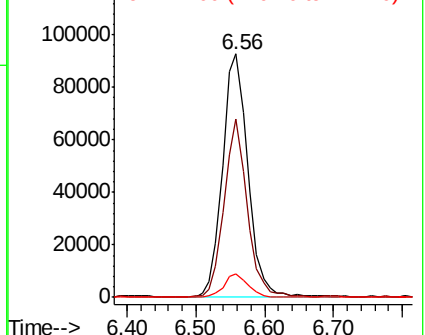
83 100

85 73.0 54.2 81.4

127 9.9 7.0 10.4



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: 19.889 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

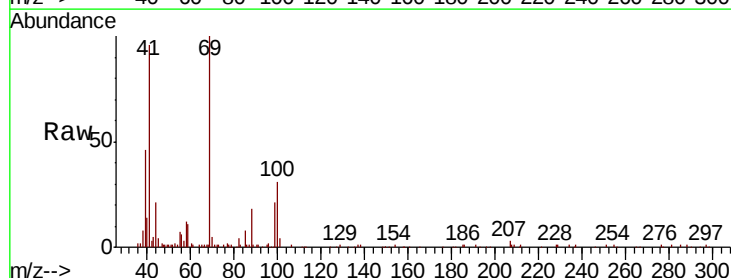
Tgt Ion: 41 Resp: 69776

Ion Ratio Lower Upper

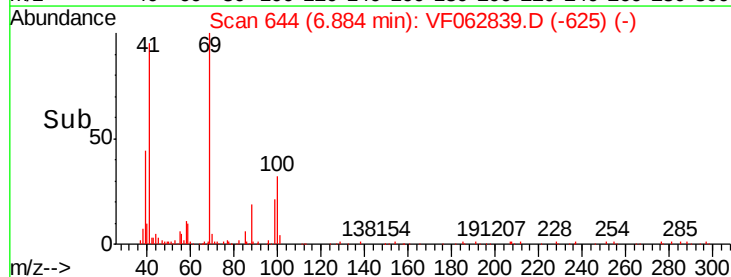
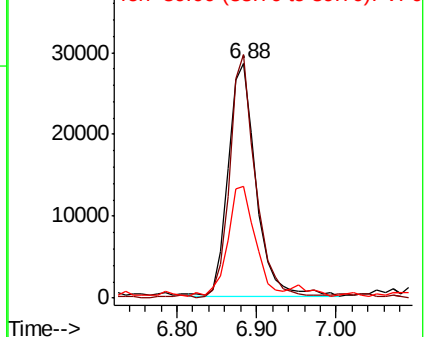
41 100

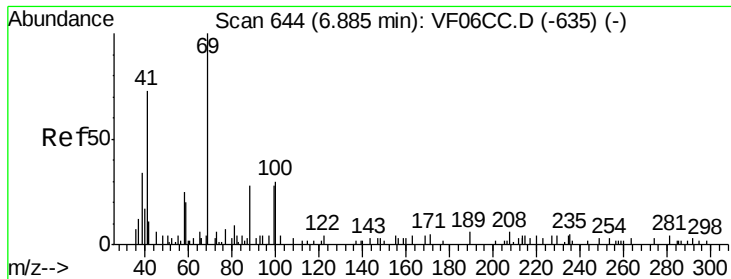
69 104.0 79.4 119.2

39 47.6 39.8 59.6



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





#49

1,4-Dioxane

Concen: 394.822 ug/l

RT: 6.87 min Scan# 643

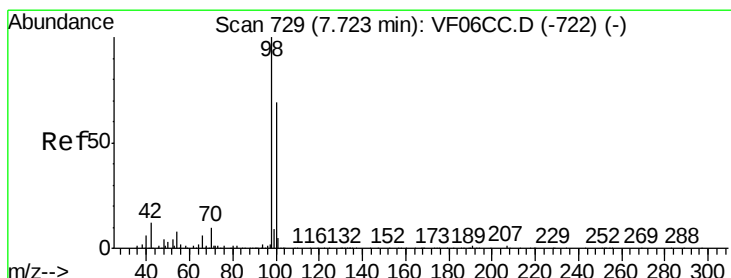
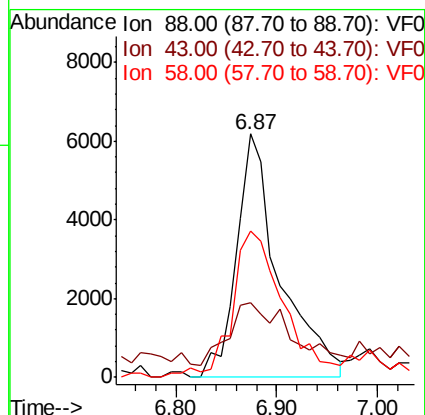
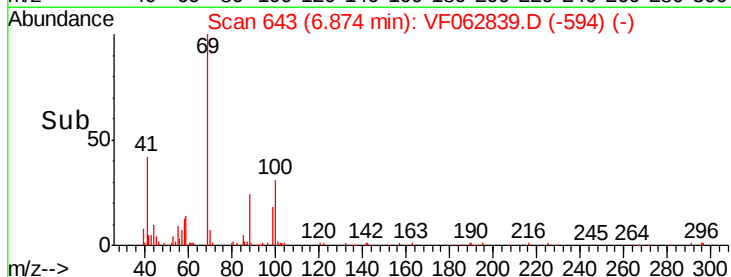
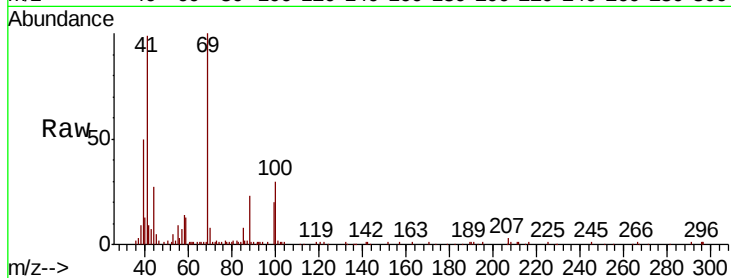
Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 88 Resp: 18258  
Ion Ratio Lower Upper  
88 100  
43 30.6 34.8 52.2#  
58 60.0 59.9 89.9



#50

Toluene-d8

Concen: 47.538 ug/l

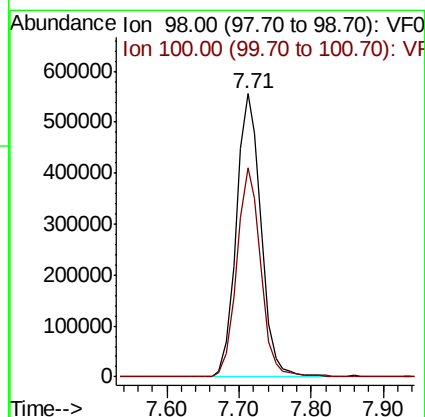
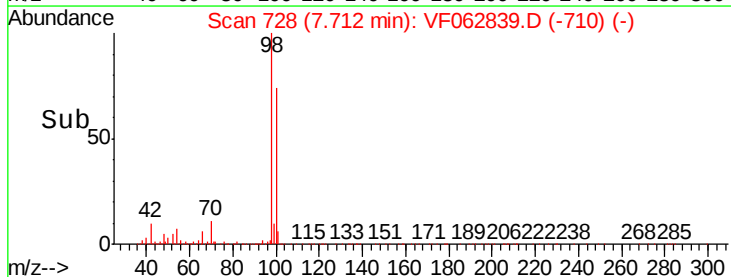
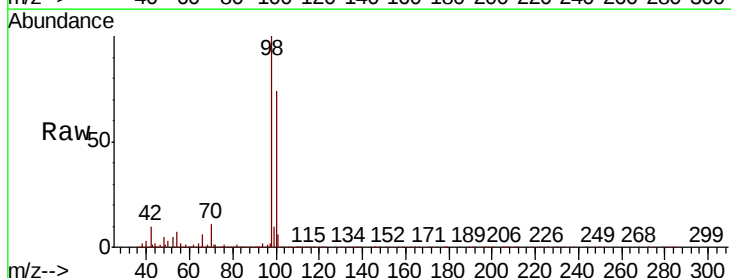
RT: 7.71 min Scan# 728

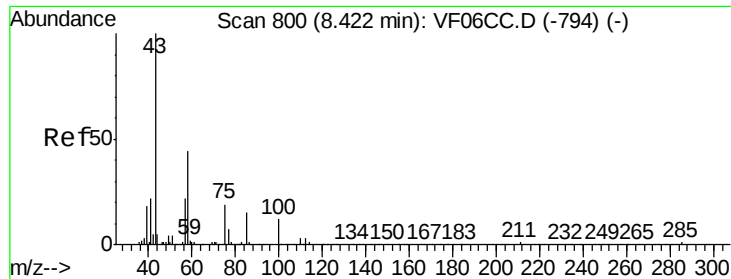
Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Tgt Ion: 98 Resp: 1330213  
Ion Ratio Lower Upper  
98 100  
100 74.1 59.8 89.8





#51

4-Methyl-2-Pentanone

Concen: 101.275 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

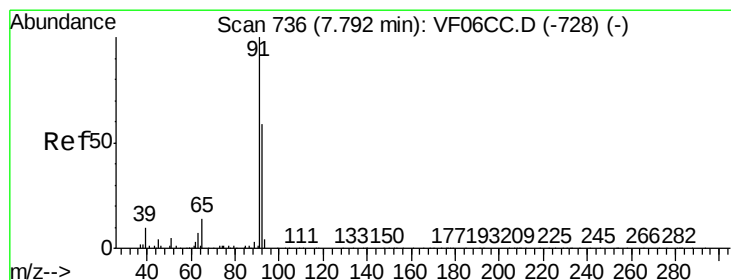
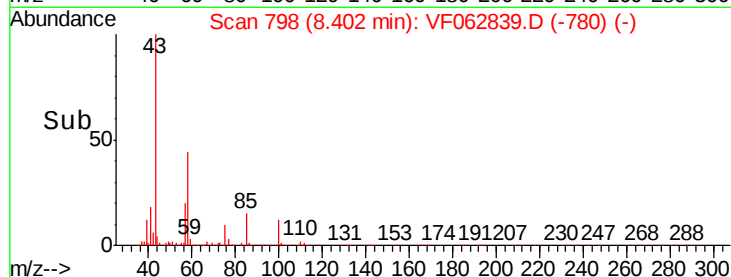
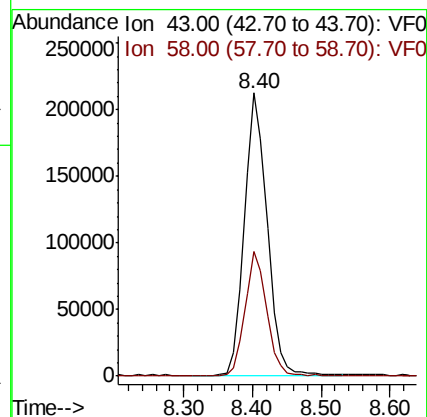
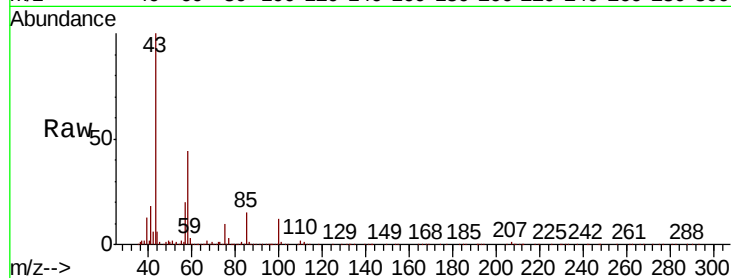
ClientSampleId :

Tot Ion: 43 Resp: 492207

Ion Ratio Lower Upper

43 100

58 43.9 35.5 53.3



#52

Toluene

Concen: 21.111 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.02 min

Lab File: VF062839.D

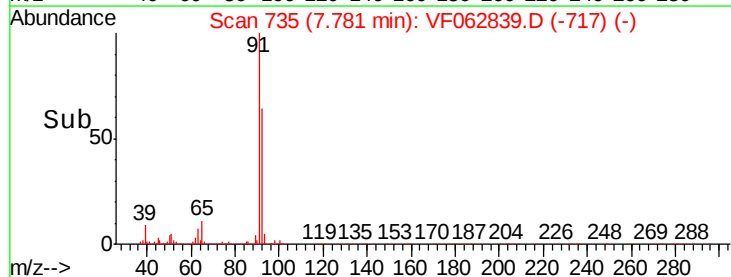
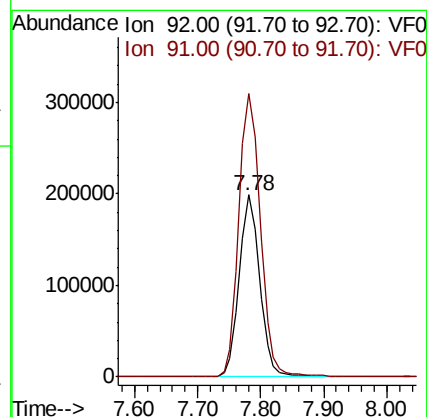
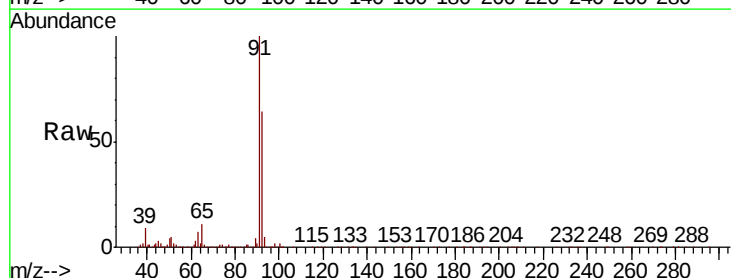
Acq: 4 Jun 2019 15:24

Tgt Ion: 92 Resp: 446121

Ion Ratio Lower Upper

92 100

91 155.8 123.2 184.8





#53

t-1,3-Dichloropropene

Concen: 20.144 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

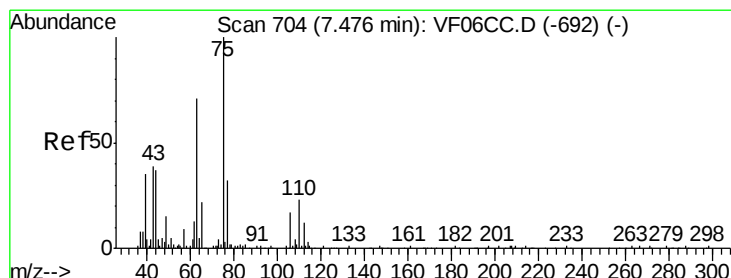
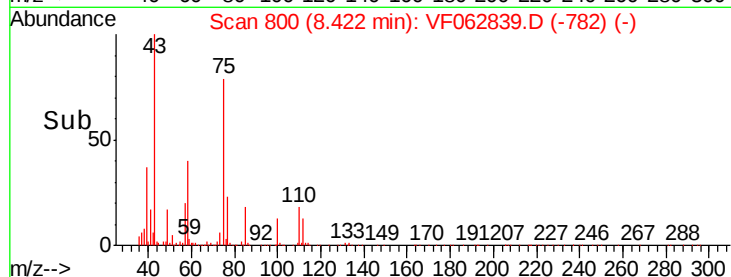
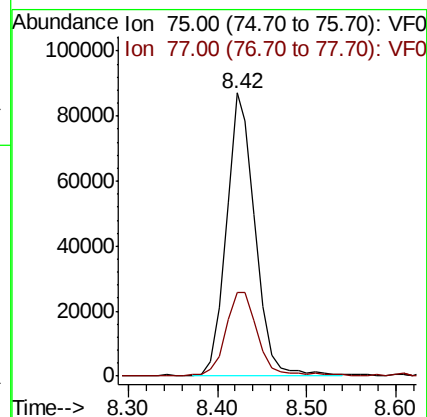
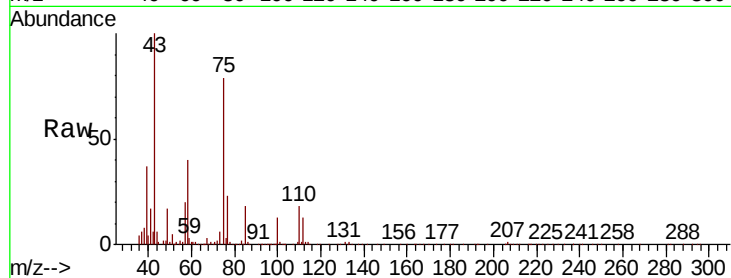
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 75 Resp: 195410

Ion Ratio Lower Upper

75 100

77 29.8 25.7 38.5



#54

cis-1,3-Dichloropropene

Concen: 20.660 ug/l

RT: 7.47 min Scan# 703

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

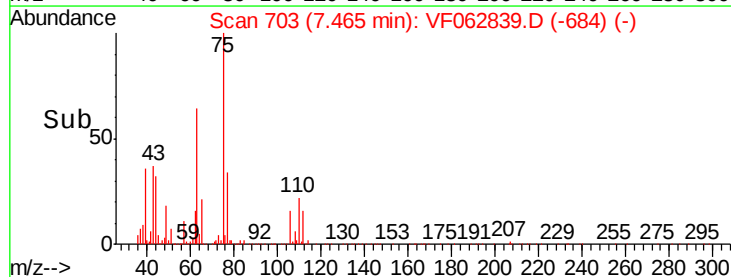
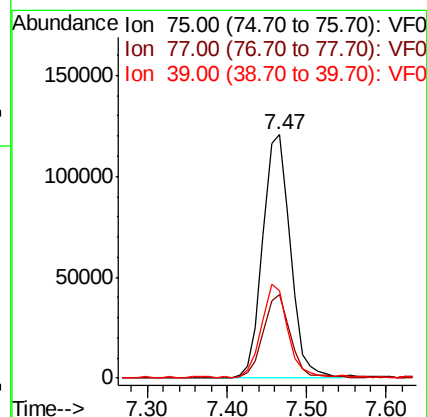
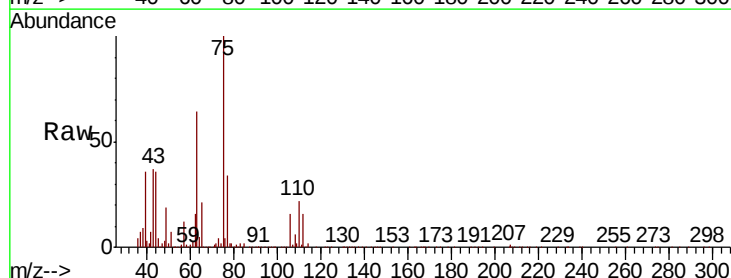
Tgt Ion: 75 Resp: 290116

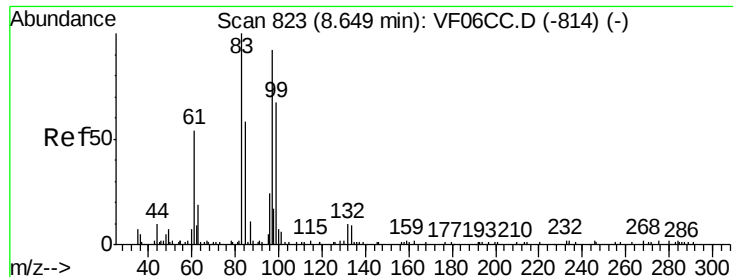
Ion Ratio Lower Upper

75 100

77 34.3 25.8 38.8

39 36.0 28.4 42.6





#55

1,1,2-Trichloroethane

Concen: 20.734 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 97 Resp: 130899

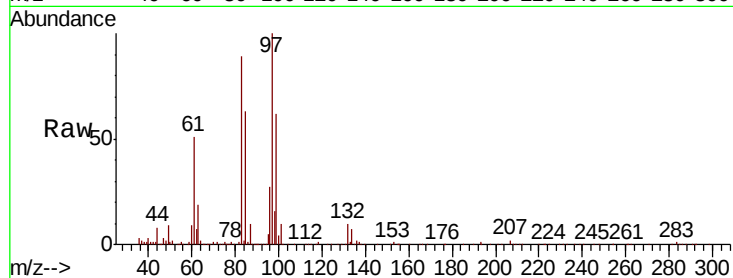
Ion Ratio Lower Upper

97 100

83 89.3 72.0 108.0

85 62.7 47.5 71.3

99 62.0 54.1 81.1

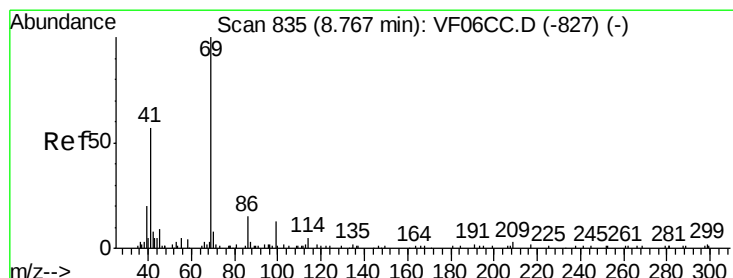
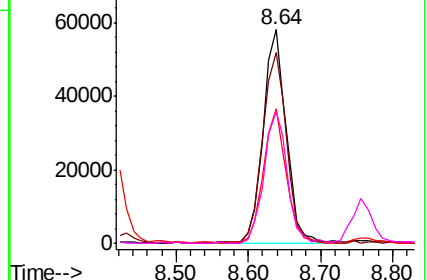
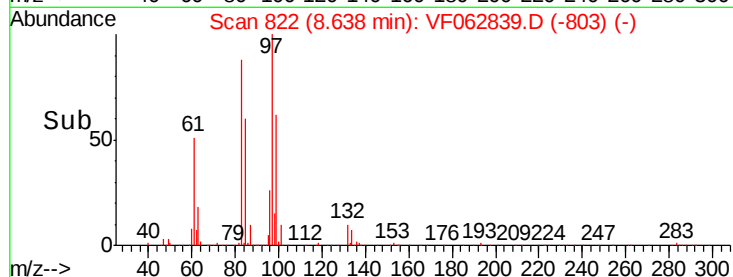


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 21.108 ug/l

RT: 8.76 min Scan# 834

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

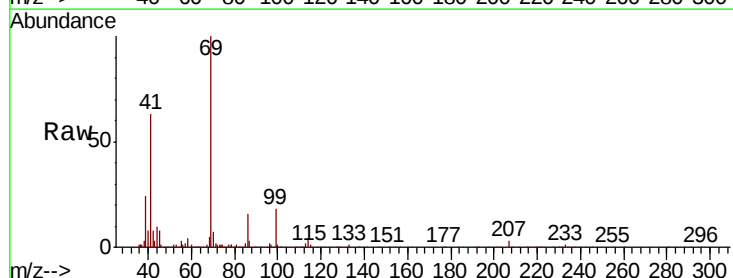
Tgt Ion: 69 Resp: 142979

Ion Ratio Lower Upper

69 100

41 63.0 46.6 69.8

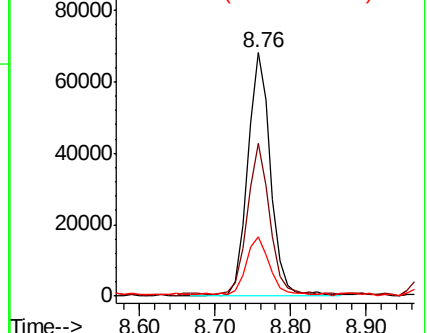
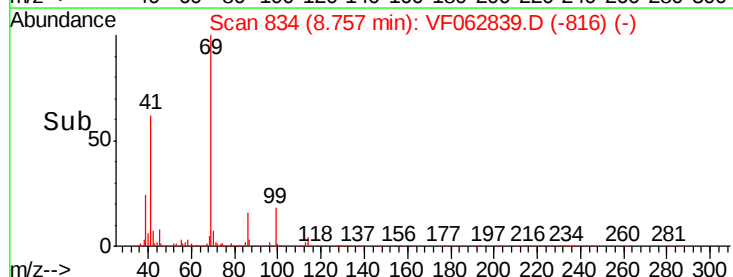
39 24.3 19.6 29.4

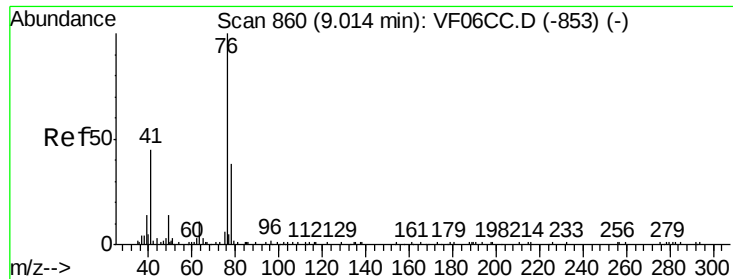


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

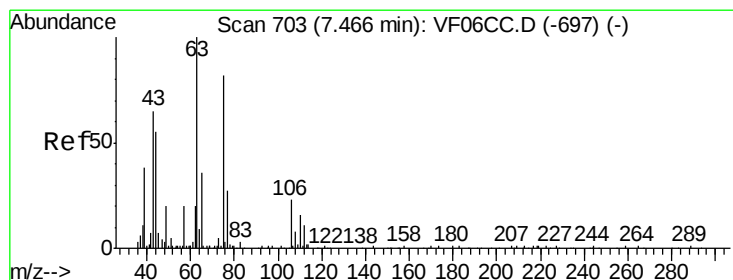
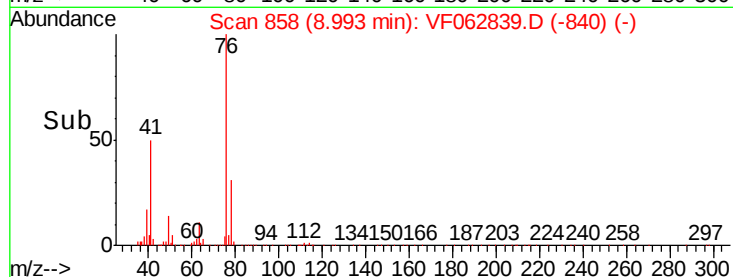
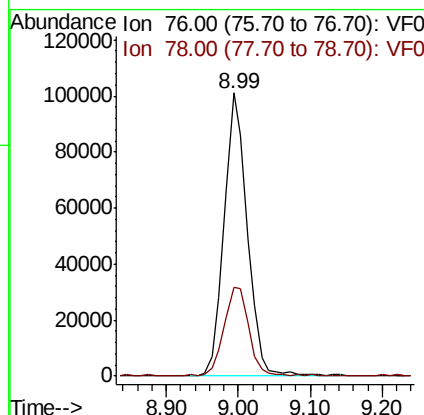
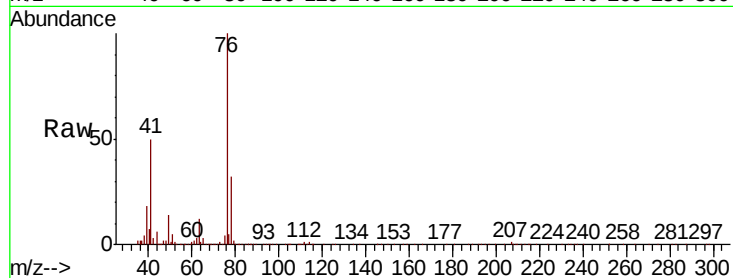




#57  
 1,3-Dichloropropane  
 Concen: 21.870 ug/l  
 RT: 8.99 min Scan# 858  
 Delta R.T. -0.02 min  
 Lab File: VF062839.D  
 Acq: 4 Jun 2019 15:24

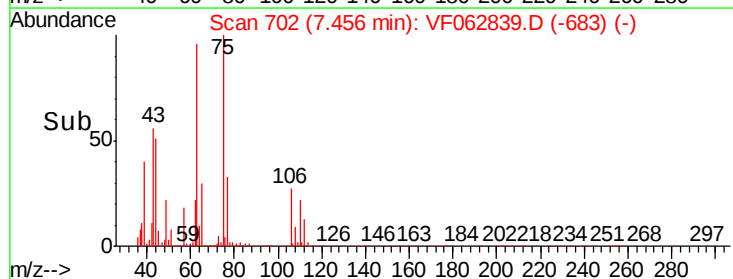
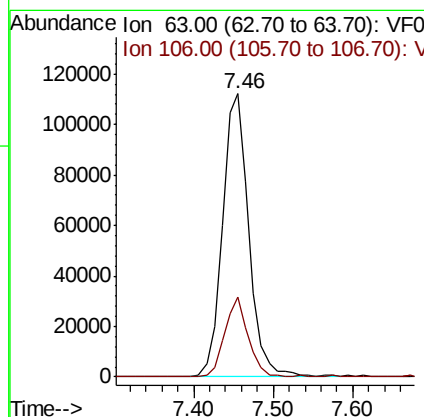
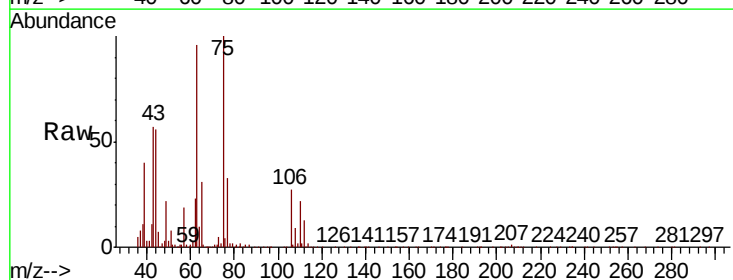
Instrument :  
 MSVOA\_F  
 ClientSampleId :

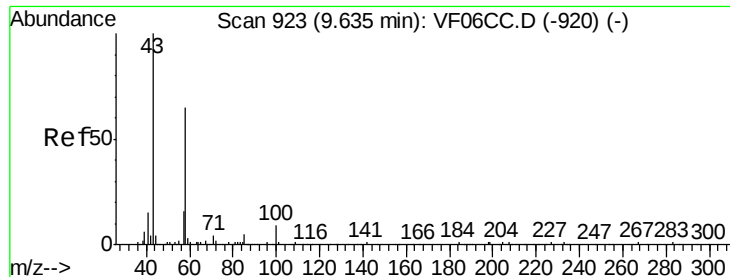
Tot Ion: 76 Resp: 225466  
 Ion Ratio Lower Upper  
 76 100  
 78 31.6 26.8 40.2



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 109.961 ug/l  
 RT: 7.46 min Scan# 702  
 Delta R.T. -0.01 min  
 Lab File: VF062839.D  
 Acq: 4 Jun 2019 15:24

Tgt Ion: 63 Resp: 260317  
 Ion Ratio Lower Upper  
 63 100  
 106 28.1 19.5 29.3

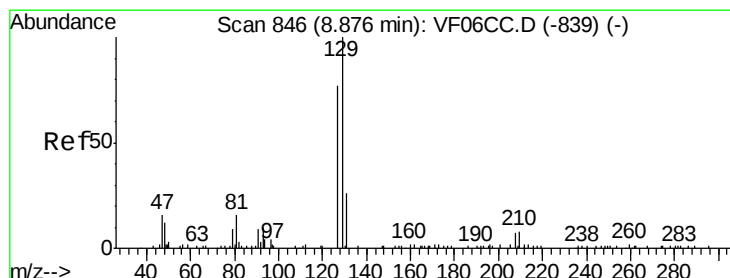
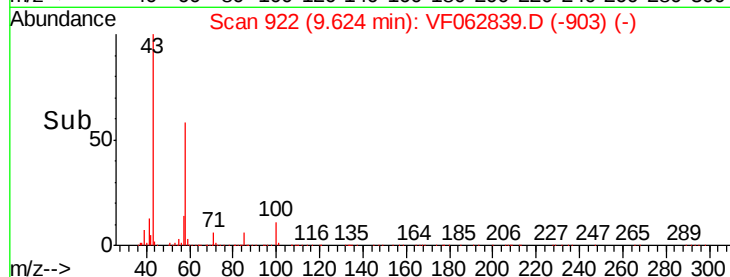
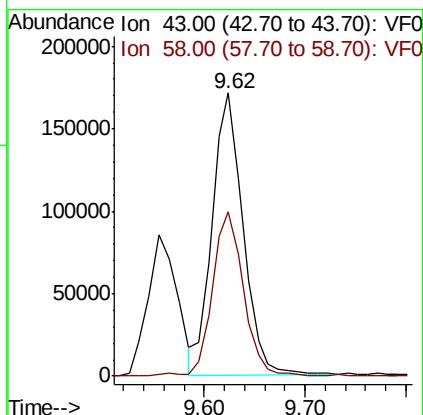
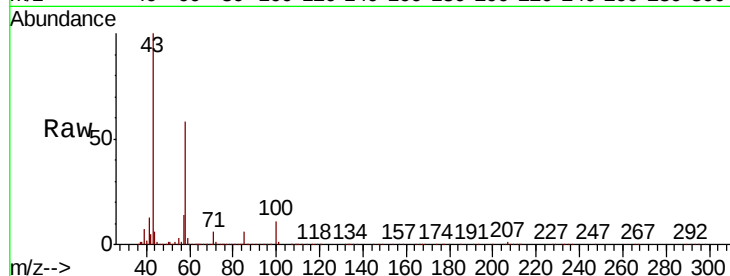




#59  
2-Hexanone  
Concen: 105.324 ug/l  
RT: 9.62 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

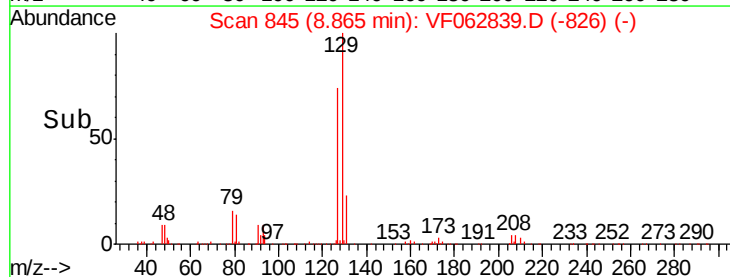
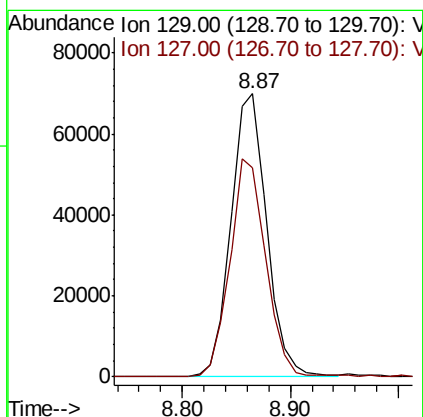
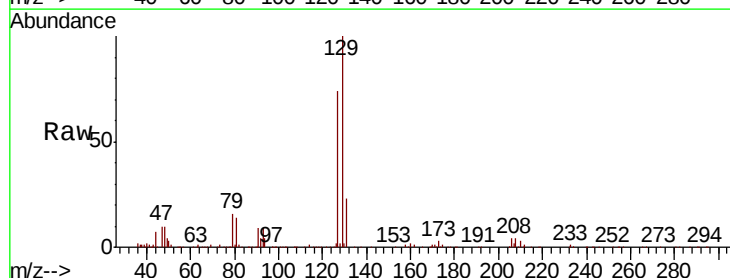
Instrument :  
MSVOA\_F  
ClientSampleId :

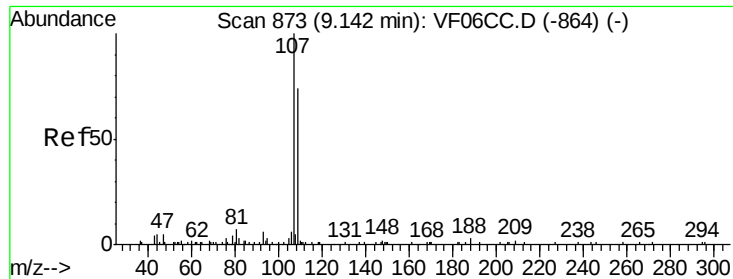
Tot Ion: 43 Resp: 364855  
Ion Ratio Lower Upper  
43 100  
58 58.1 29.3 87.9



#60  
Dibromochloromethane  
Concen: 20.529 ug/l  
RT: 8.87 min Scan# 845  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion: 129 Resp: 160451  
Ion Ratio Lower Upper  
129 100  
127 72.6 37.1 111.3





#61

1,2-Dibromoethane

Concen: 20.951 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

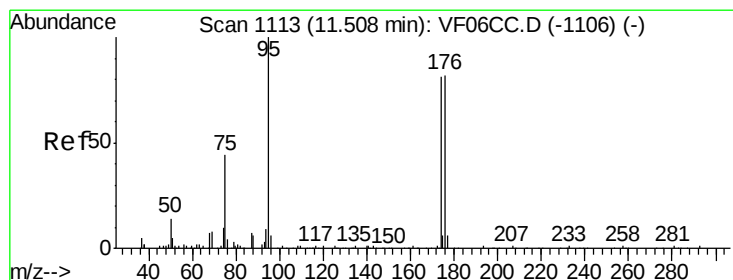
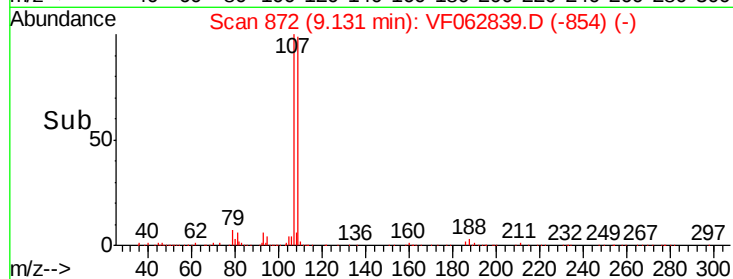
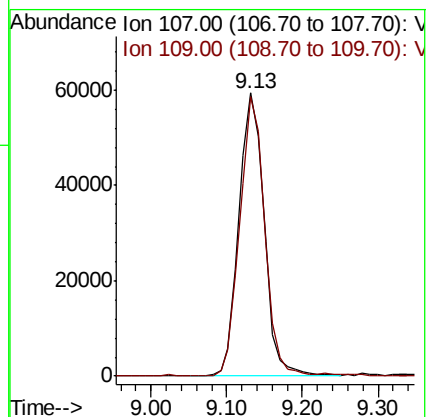
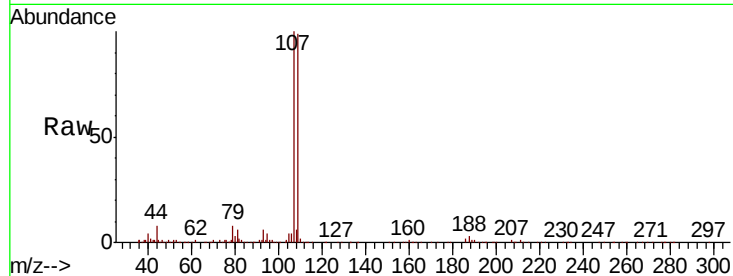
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:107 Resp: 137366

Ion Ratio Lower Upper

107 100

109 98.9 78.1 117.1



#62

4-Bromofluorobenzene

Concen: 48.030 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

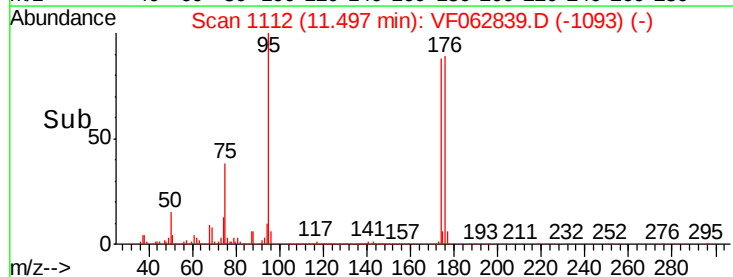
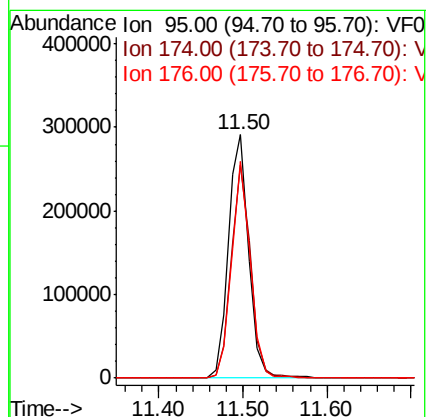
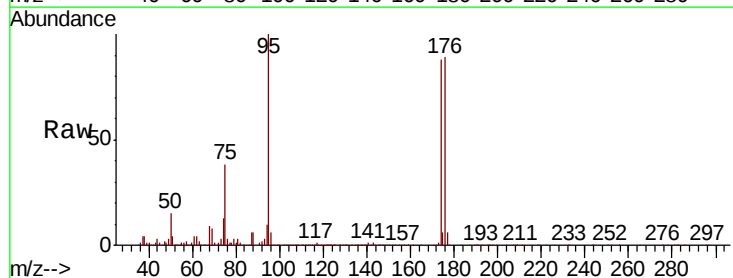
Tgt Ion: 95 Resp: 483443

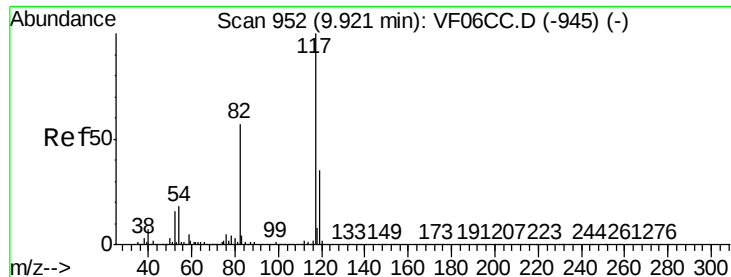
Ion Ratio Lower Upper

95 100

174 87.7 0.0 170.6

176 89.2 0.0 170.6

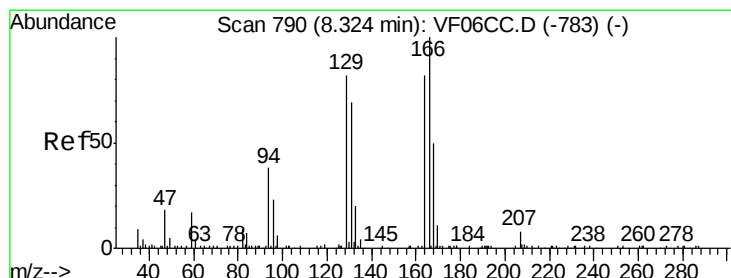
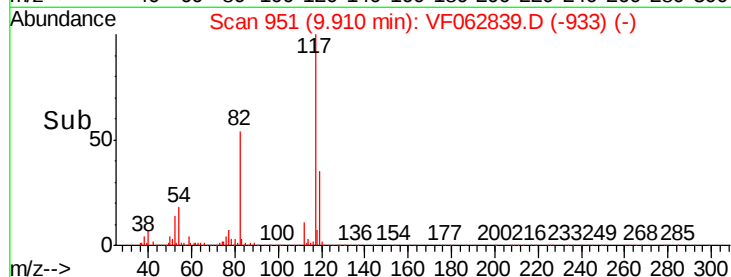
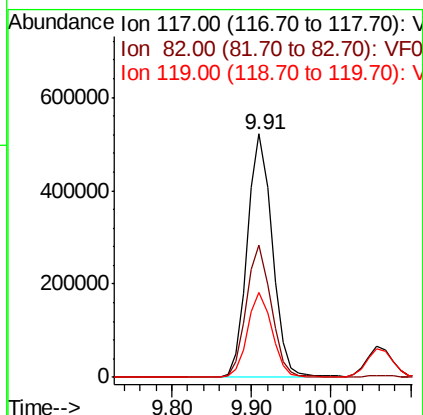
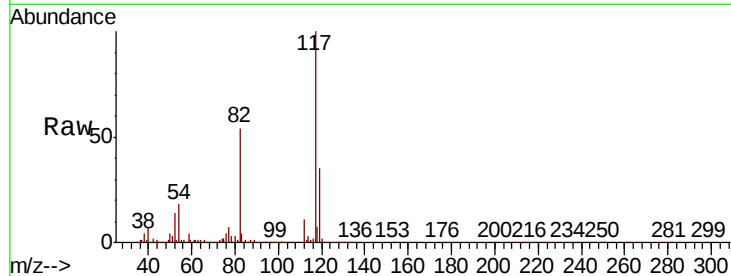




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.91 min Scan# 951  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

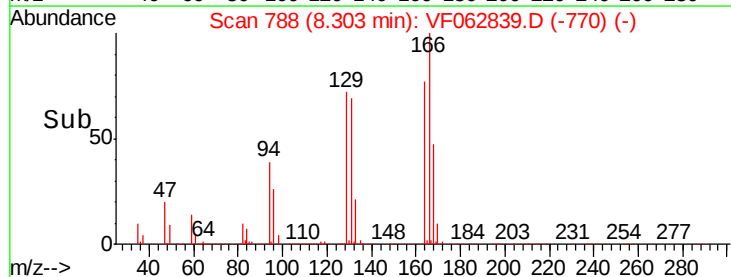
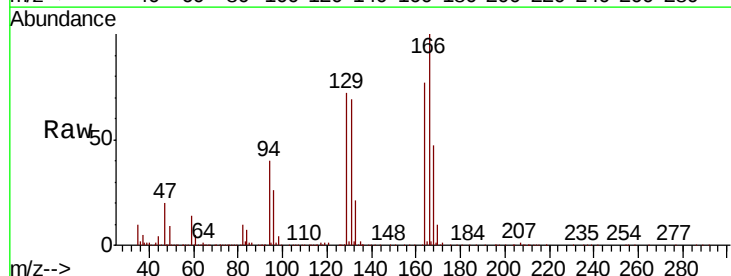
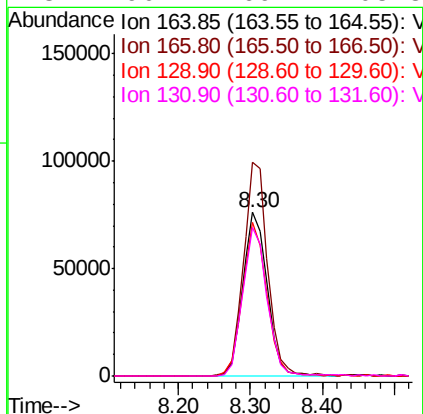
Instrument :  
MSVOA\_F  
ClientSampleId :

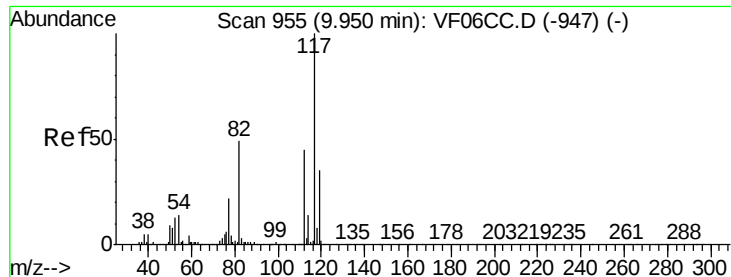
Tot Ion:117 Resp: 1123424  
Ion Ratio Lower Upper  
117 100  
82 54.1 42.4 63.6  
119 34.7 27.1 40.7



#64  
Tetrachloroethene  
Concen: 20.985 ug/l  
RT: 8.30 min Scan# 788  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion:164 Resp: 181159  
Ion Ratio Lower Upper  
164 100  
166 130.5 99.1 148.7  
129 94.1 69.5 104.3  
131 90.7 69.2 103.8

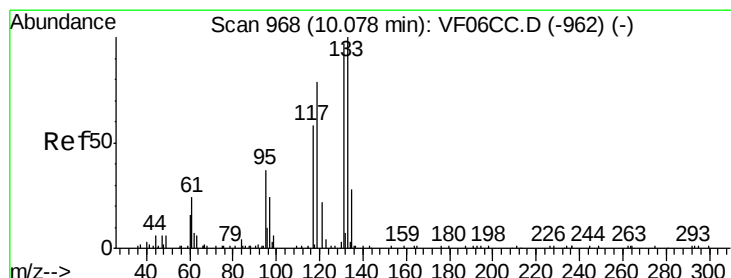
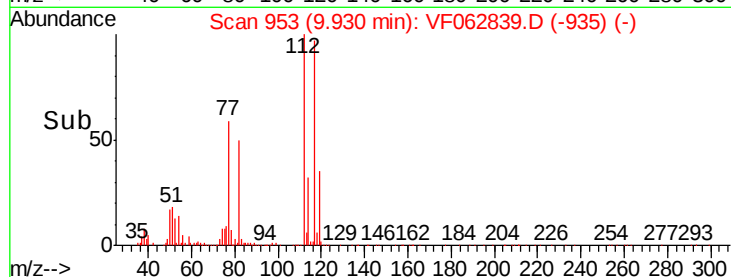
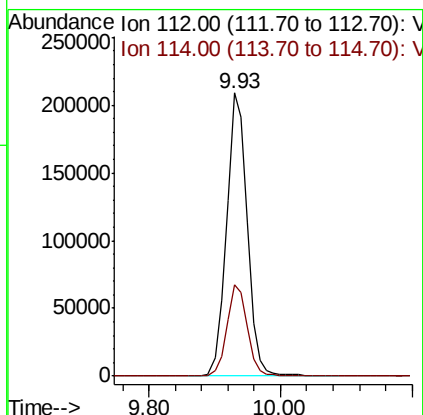
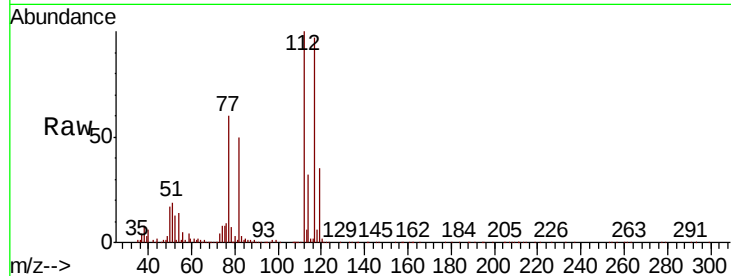




#65  
Chlorobenzene  
Concen: 21.305 ug/l  
RT: 9.93 min Scan# 953  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

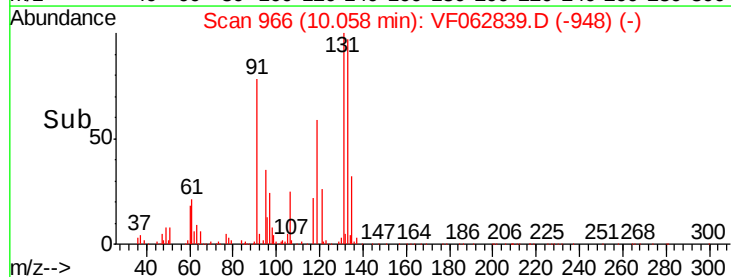
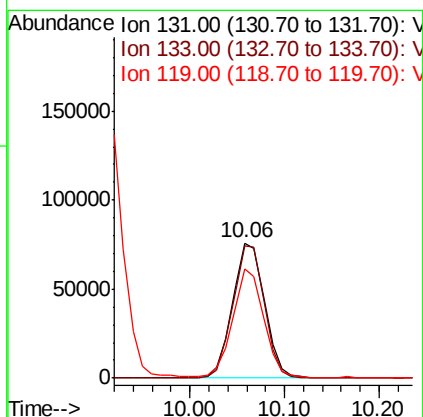
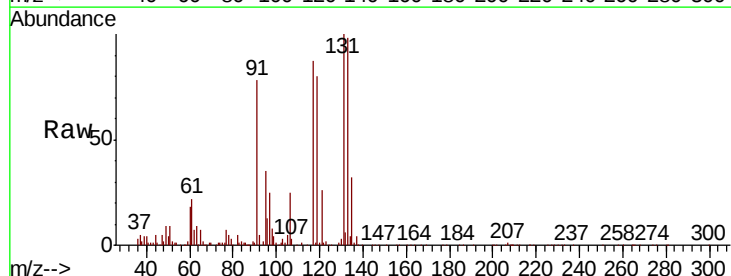
Instrument :  
MSVOA\_F  
ClientSampled :

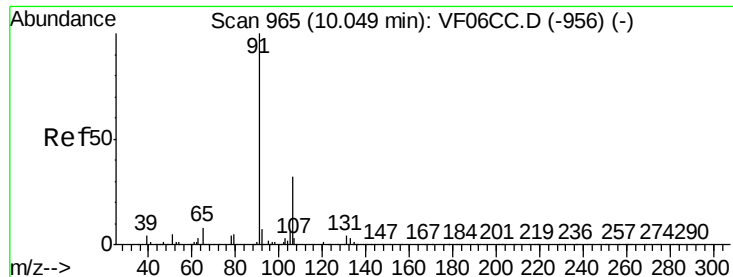
Tot Ion:112 Resp: 462208  
Ion Ratio Lower Upper  
112 100  
114 32.4 27.4 41.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 20.752 ug/l  
RT: 10.06 min Scan# 966  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion:131 Resp: 179306  
Ion Ratio Lower Upper  
131 100  
133 97.5 48.9 146.7  
119 80.5 38.0 114.0

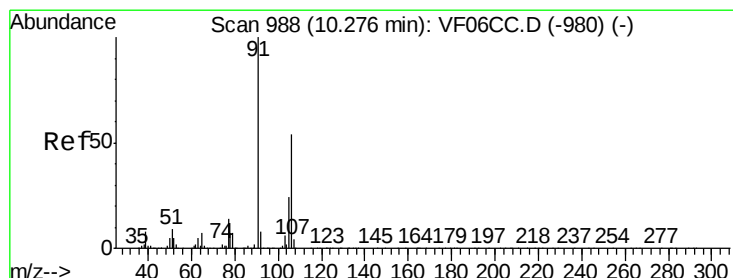
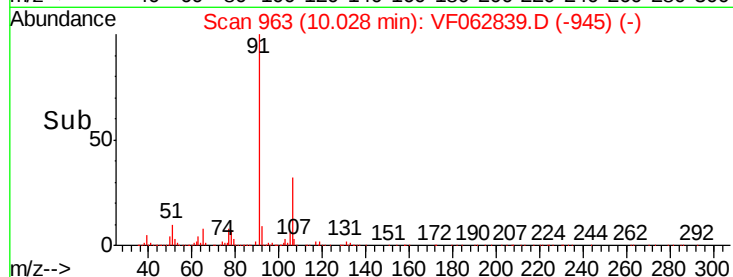
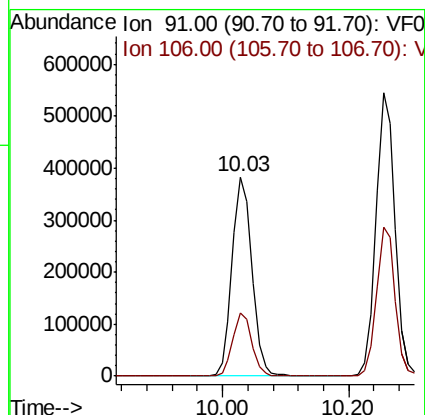
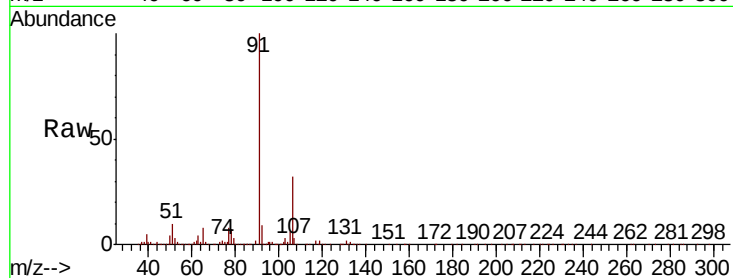




#67  
Ethyl Benzene  
Concen: 22.341 ug/l  
RT: 10.03 min Scan# 963  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

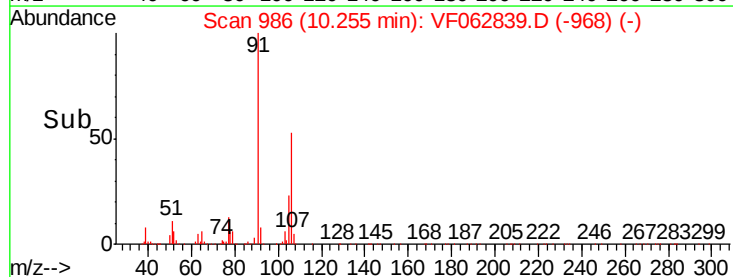
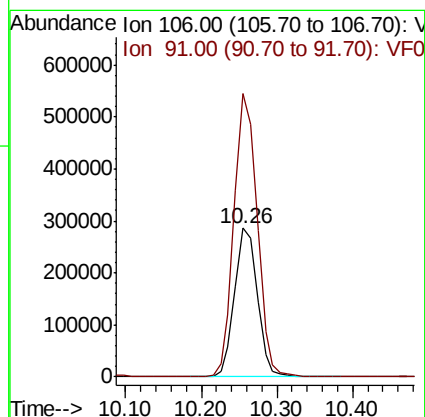
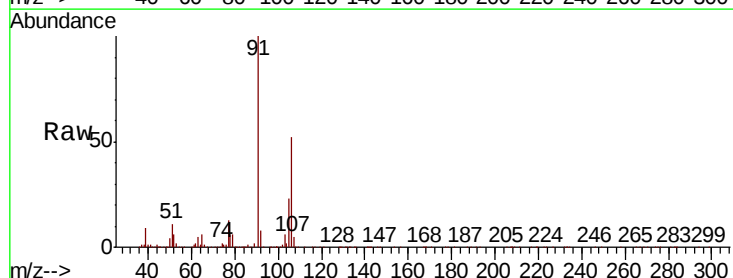
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 91 Resp: 831758  
Ion Ratio Lower Upper  
91 100  
106 31.5 26.0 39.0



#68  
m/p-Xylenes  
Concen: 41.862 ug/l  
RT: 10.26 min Scan# 986  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion: 106 Resp: 596380  
Ion Ratio Lower Upper  
106 100  
91 190.7 136.2 204.4

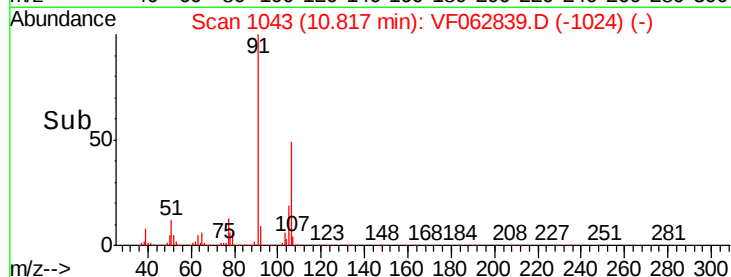
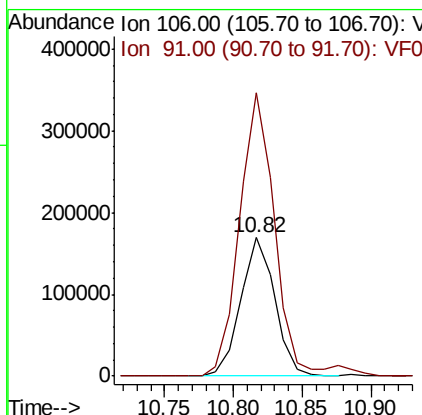
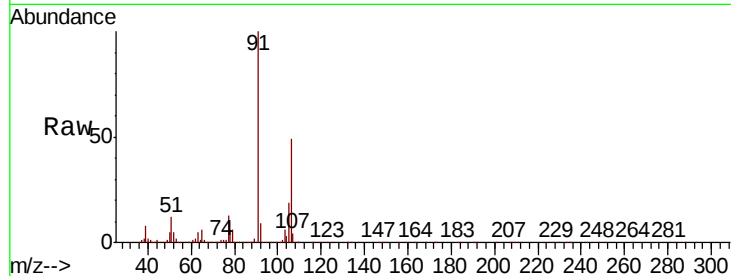




#69  
o-Xylene  
Concen: 20.327 ug/l  
RT: 10.82 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

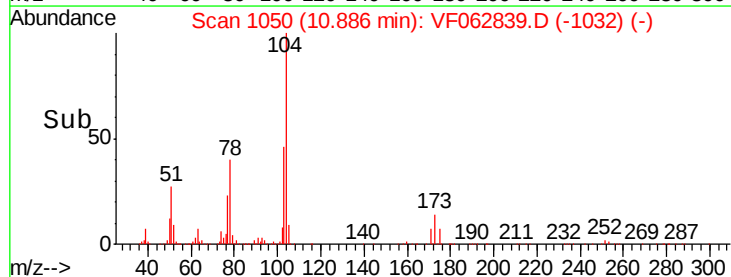
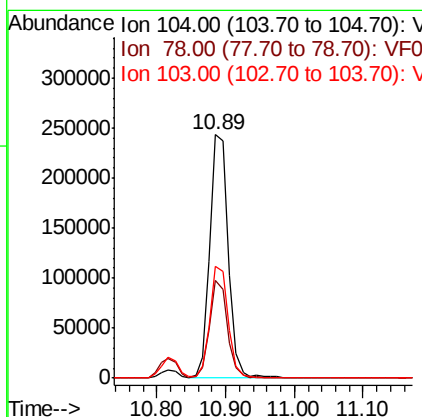
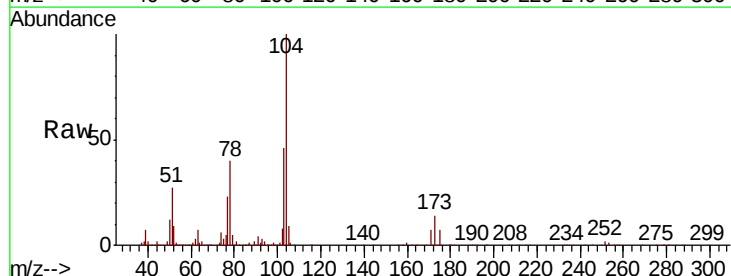
Instrument :  
MSVOA\_F  
ClientSampleId :

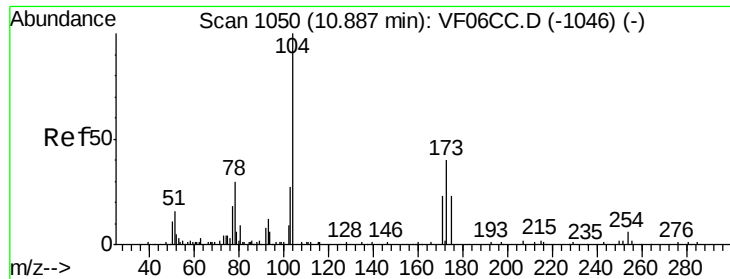
Tot Ion:106 Resp: 293195  
Ion Ratio Lower Upper  
106 100  
91 204.8 96.6 289.8



#70  
Styrene  
Concen: 21.262 ug/l  
RT: 10.89 min Scan# 1050  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion:104 Resp: 452039  
Ion Ratio Lower Upper  
104 100  
78 40.3 30.8 46.2  
103 46.0 35.8 53.6

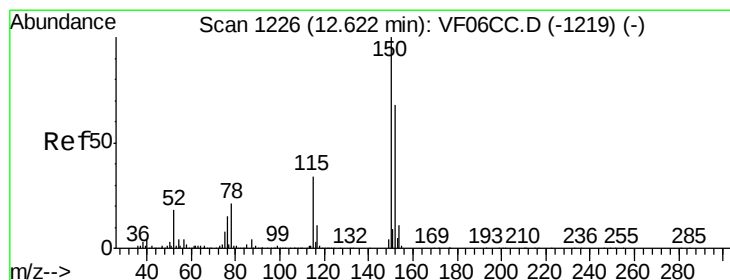
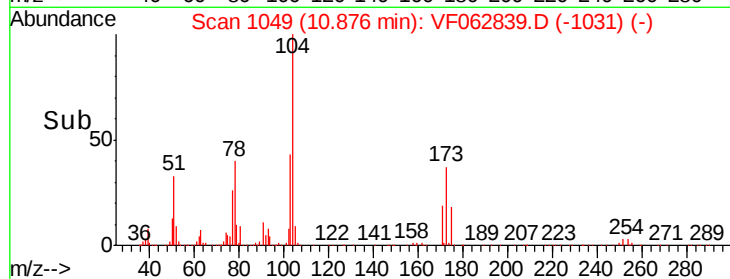
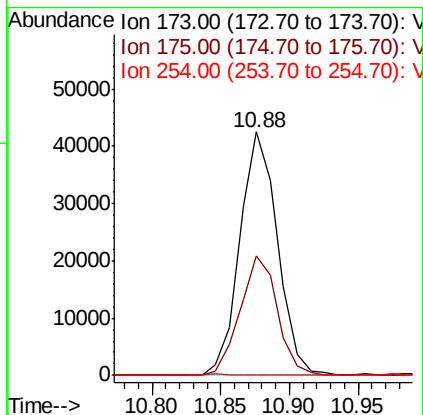
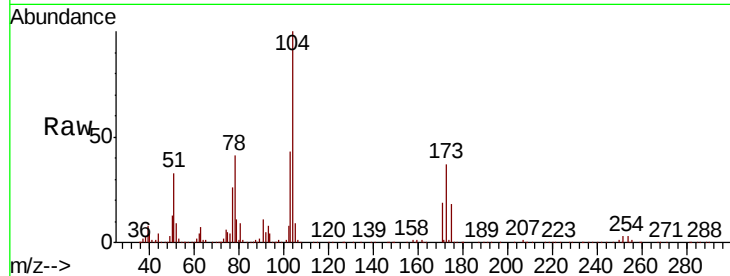




#71  
Bromoform  
Concen: 19.526 ug/l  
RT: 10.88 min Scan# 1049  
Delta R.T. -0.02 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

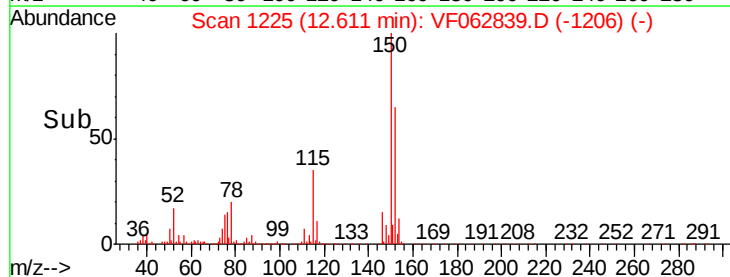
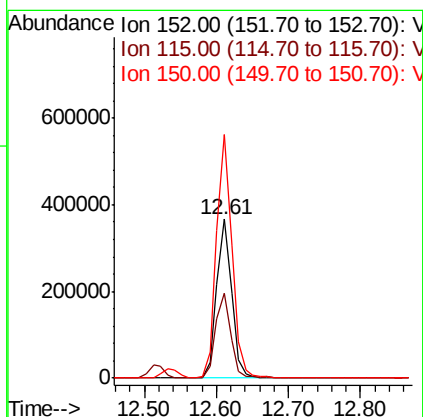
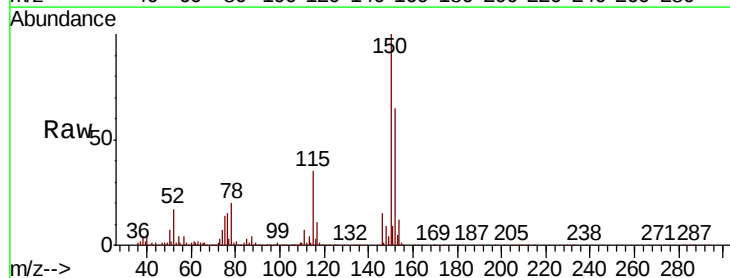
Instrument :  
MSVOA\_F  
ClientSampled :

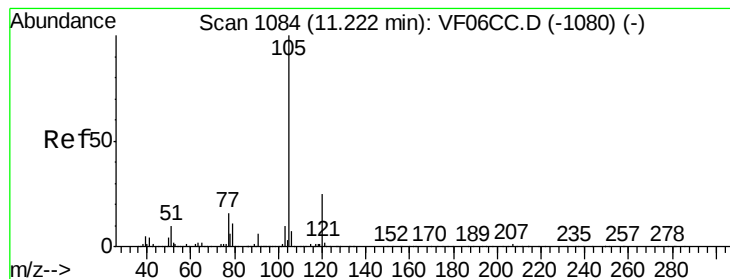
Tot Ion:173 Resp: 80933  
Ion Ratio Lower Upper  
173 100  
175 48.3 24.6 74.0  
254 0.3 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.61 min Scan# 1225  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

Tgt Ion:152 Resp: 523553  
Ion Ratio Lower Upper  
152 100  
115 53.4 24.6 74.0  
150 153.3 0.0 290.6





#73

Isopropylbenzene

Concen: 21.645 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

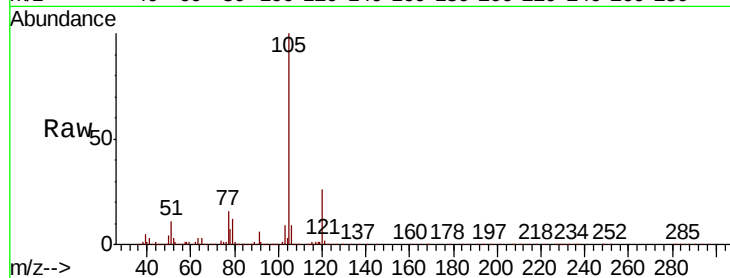
ClientSampleId :

Tot Ion:105 Resp: 790710

Ion Ratio Lower Upper

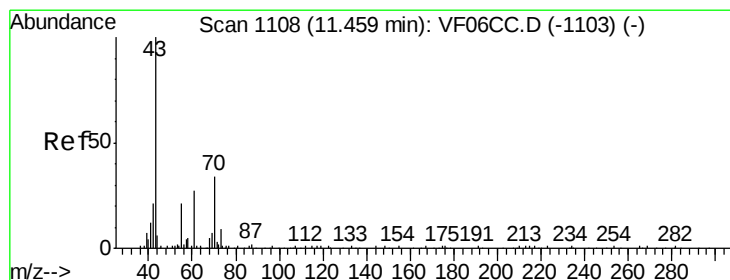
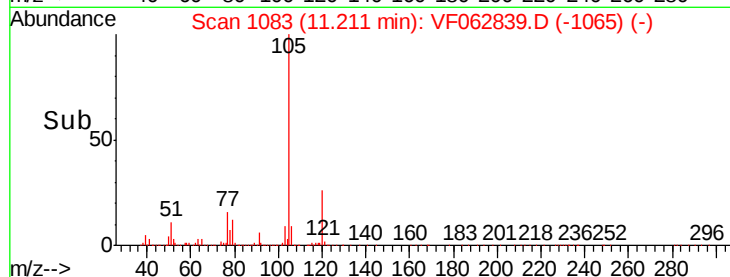
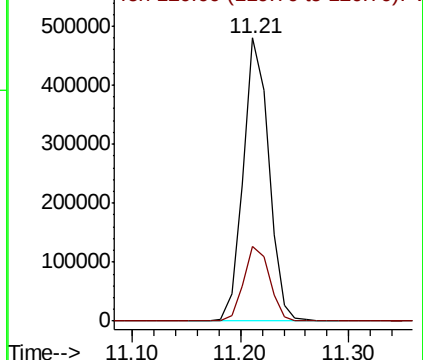
105 100

120 26.3 15.1 45.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.813 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Tgt Ion: 43 Resp: 214297

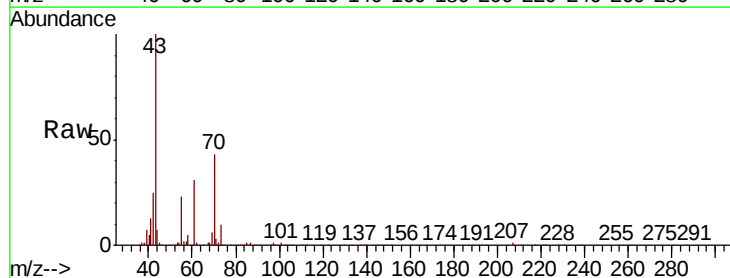
Ion Ratio Lower Upper

43 100

70 42.7 32.9 49.3

55 23.2 17.3 25.9

61 31.3 23.7 35.5

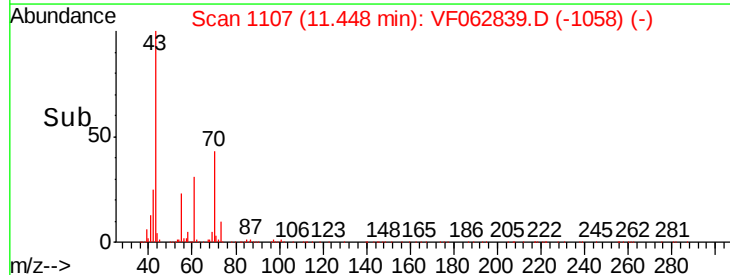
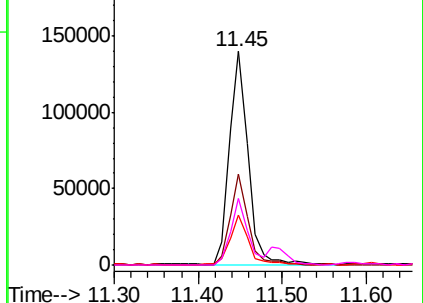


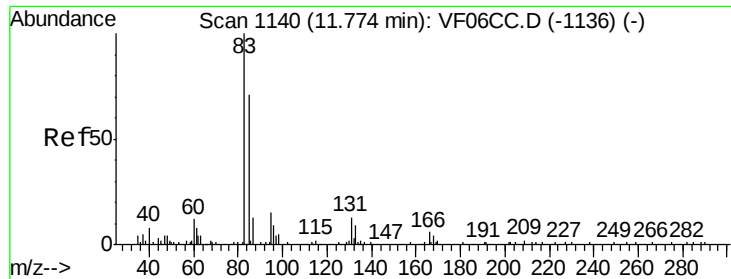
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.443 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

ClientSampleId :

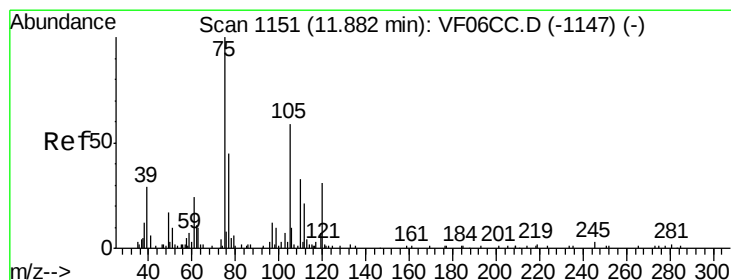
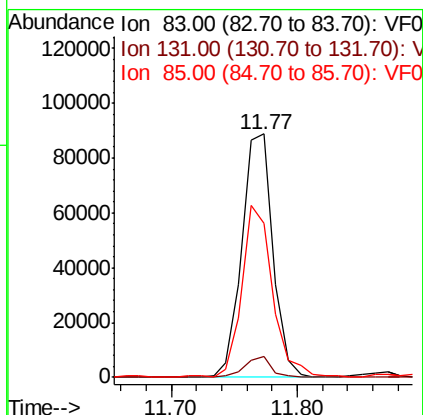
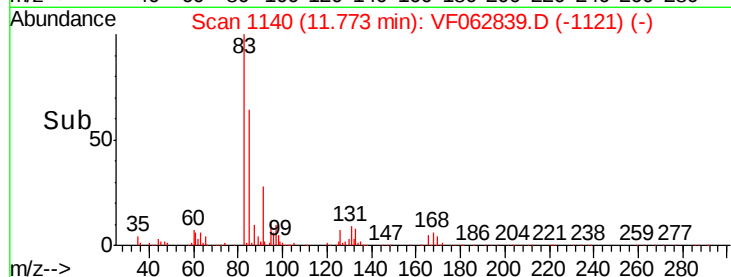
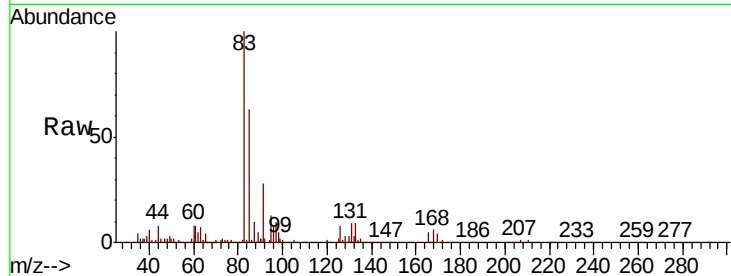
Tot Ion: 83 Resp: 151681

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 8.8   | 4.9   | 14.7  |
| 85  | 63.2  | 32.1  | 96.5  |

83 100

131 8.8 4.9 14.7

85 63.2 32.1 96.5



#76

1,2,3-Trichloropropane

Concen: 19.627 ug/l

RT: 11.86 min Scan# 1149

Delta R.T. -0.02 min

Lab File: VF062839.D

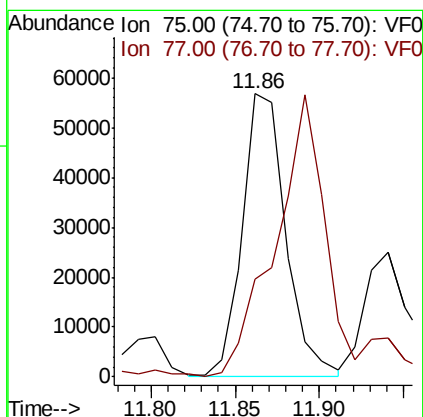
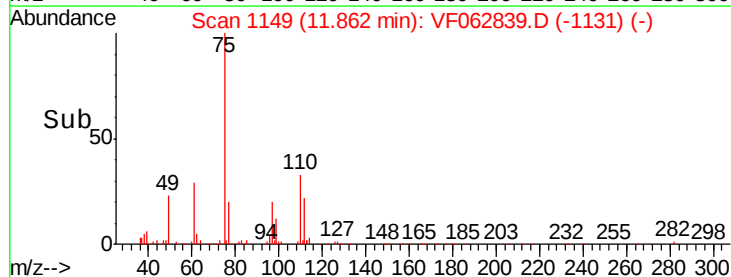
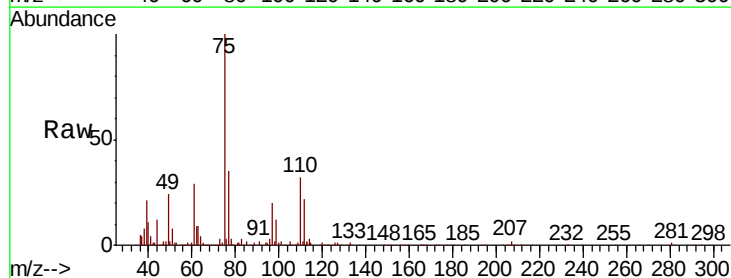
Acq: 4 Jun 2019 15:24

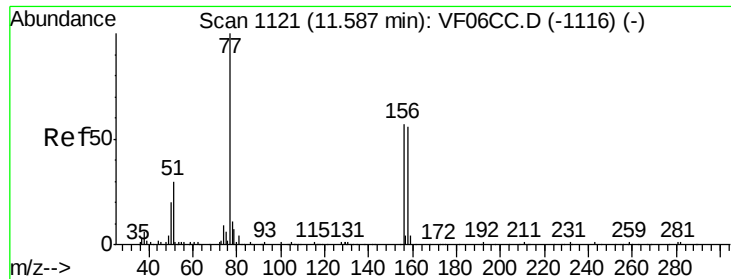
Tgt Ion: 75 Resp: 101497

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 34.6  | 20.1  | 60.2  |

75 100

77 34.6 20.1 60.2





#77

Bromobenzene

Concen: 20.543 ug/l

RT: 11.58 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

ClientSampleId :

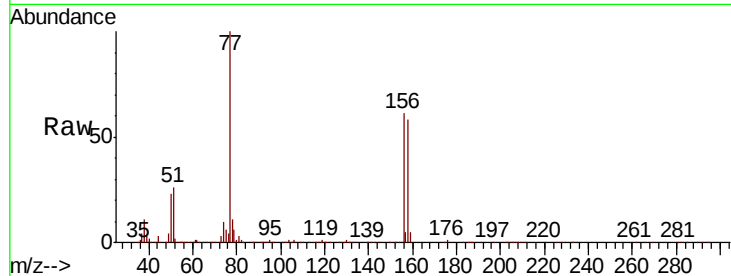
Tot Ion:156 Resp: 188565

Ion Ratio Lower Upper

156 100

77 165.0 64.2 192.6

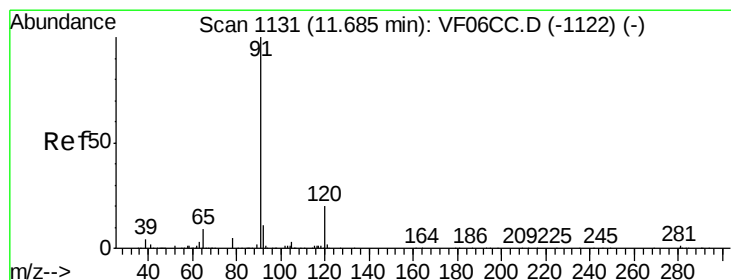
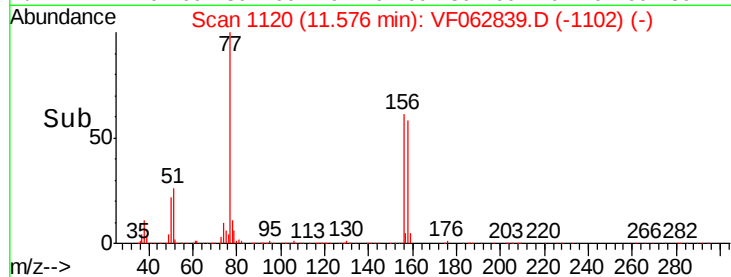
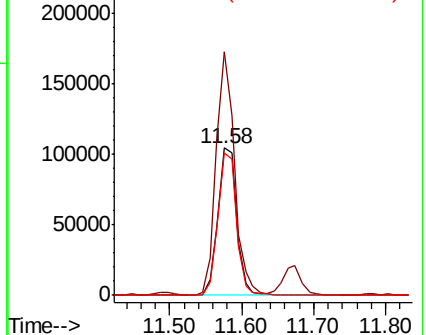
158 96.3 50.3 151.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 21.209 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF062839.D

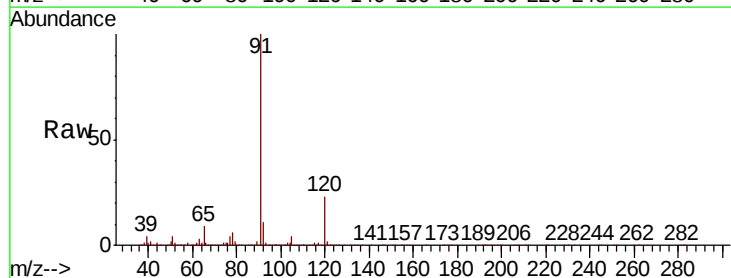
Acq: 4 Jun 2019 15:24

Tgt Ion: 91 Resp: 935529

Ion Ratio Lower Upper

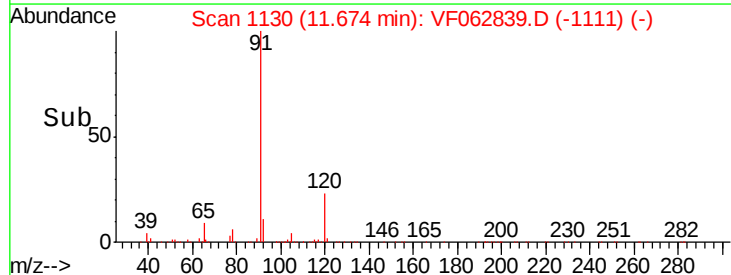
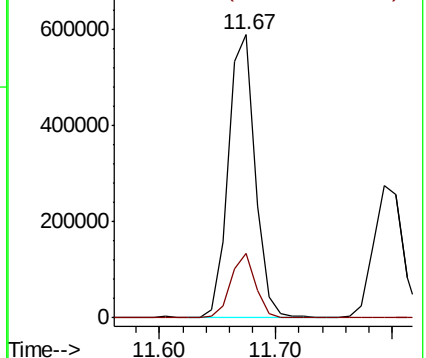
91 100

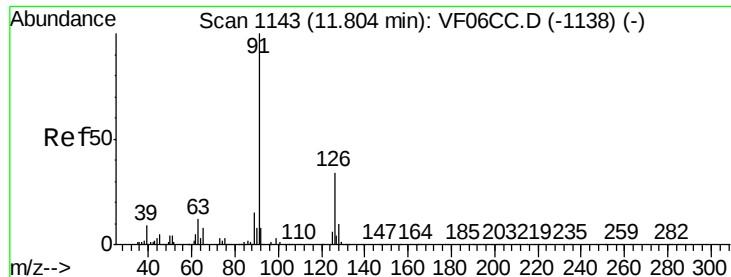
120 22.7 12.8 38.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

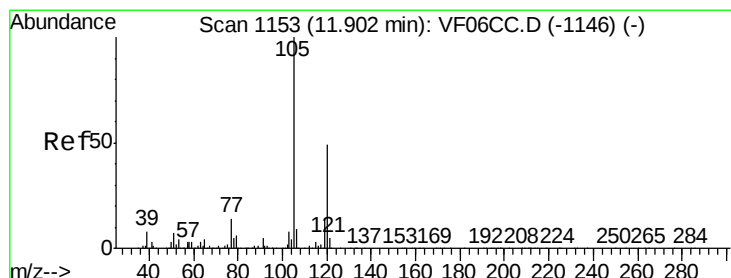
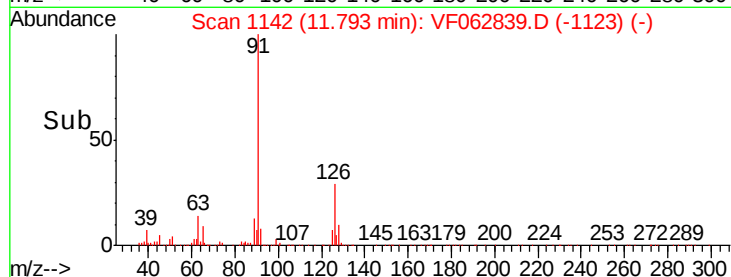
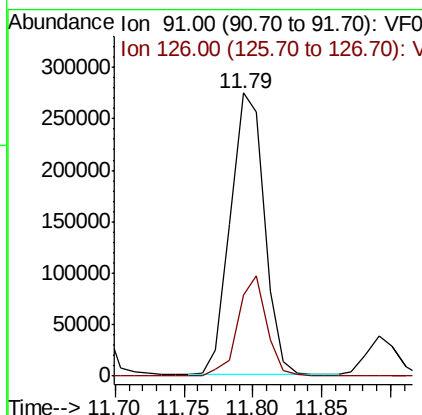
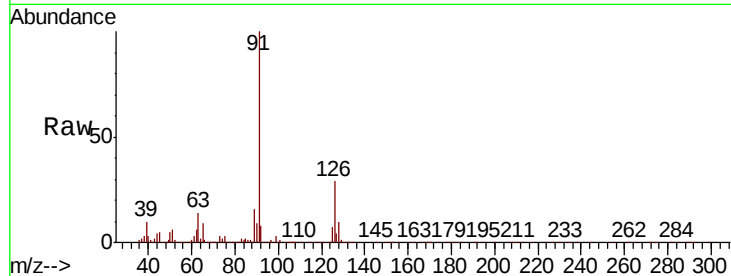




#79  
 2-Chlorotoluene  
 Concen: 18.707 ug/l  
 RT: 11.79 min Scan# 1142  
 Delta R.T. -0.01 min  
 Lab File: VF062839.D  
 Acq: 4 Jun 2019 15:24

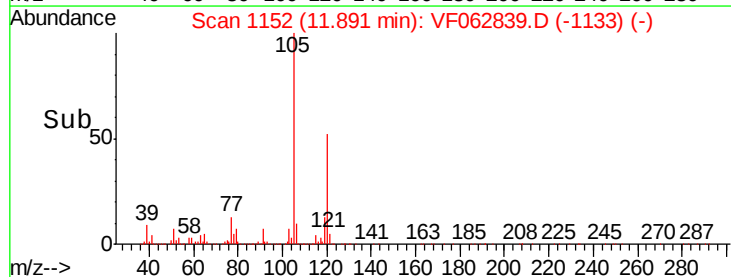
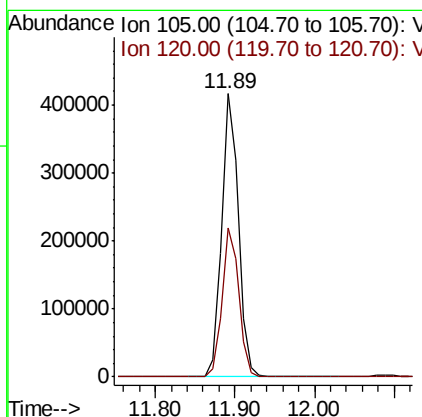
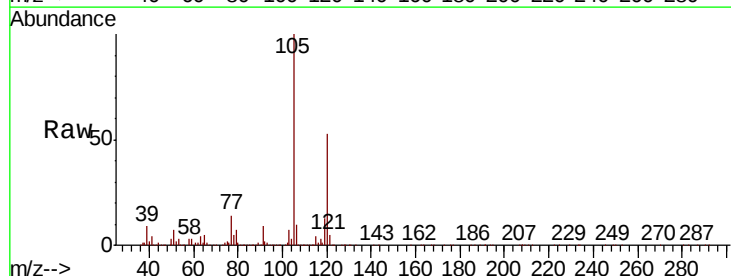
Instrument :  
 MSVOA\_F  
 ClientSampleId :

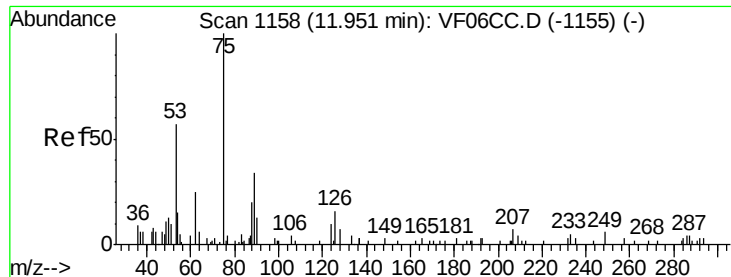
Tot Ion: 91 Resp: 472137  
 Ion Ratio Lower Upper  
 91 100  
 126 28.9 17.8 53.3



#80  
 1,3,5-Trimethylbenzene  
 Concen: 20.859 ug/l  
 RT: 11.89 min Scan# 1152  
 Delta R.T. -0.01 min  
 Lab File: VF062839.D  
 Acq: 4 Jun 2019 15:24

Tgt Ion: 105 Resp: 623160  
 Ion Ratio Lower Upper  
 105 100  
 120 52.7 28.7 86.1





#81

trans-1,4-Dichloro-2-butene

Concen: 25.591 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

ClientSampleId :

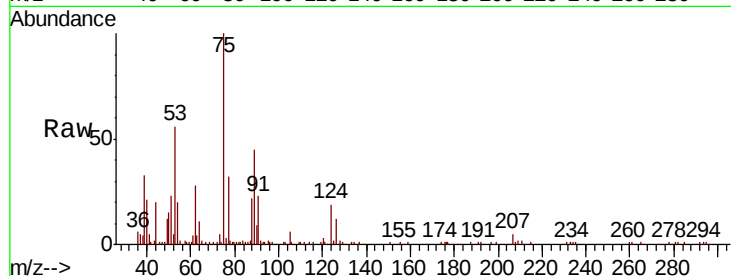
Tot Ion: 75 Resp: 56026

Ion Ratio Lower Upper

75 100

53 55.6 43.5 65.3

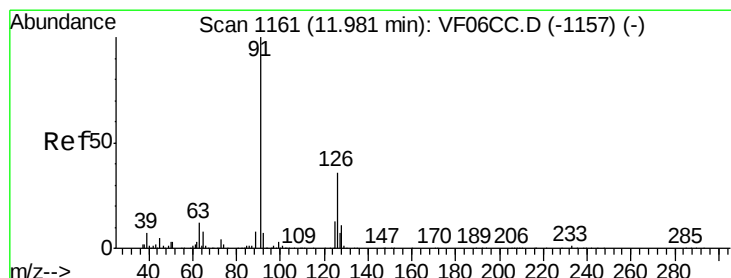
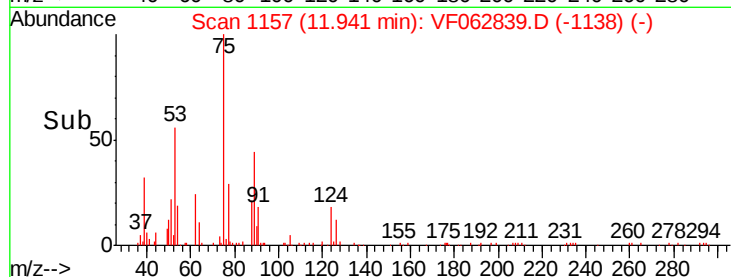
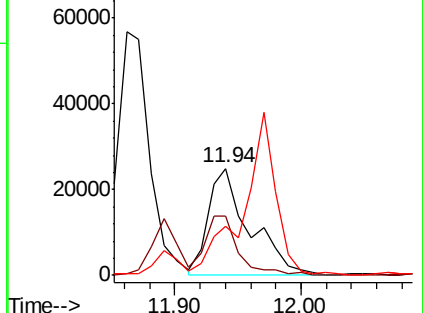
89 45.5 34.3 51.5



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 21.263 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. -0.01 min

Lab File: VF062839.D

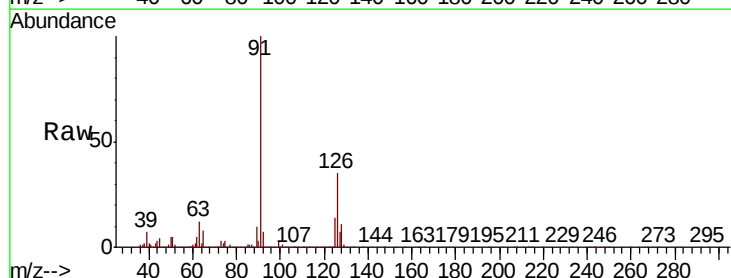
Acq: 4 Jun 2019 15:24

Tgt Ion: 91 Resp: 527392

Ion Ratio Lower Upper

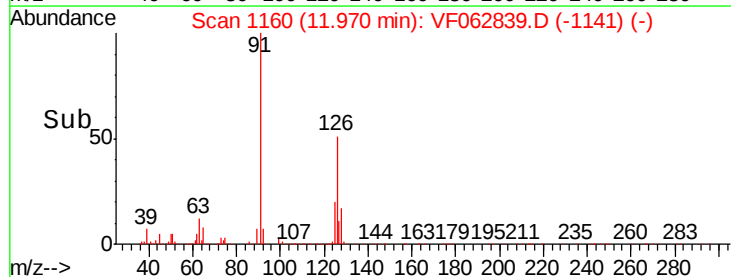
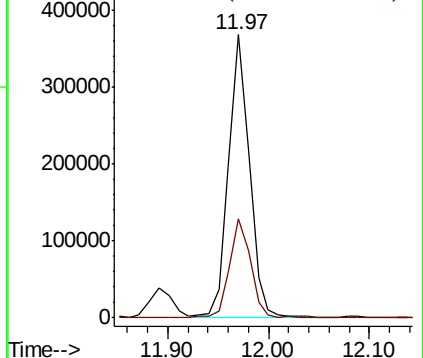
91 100

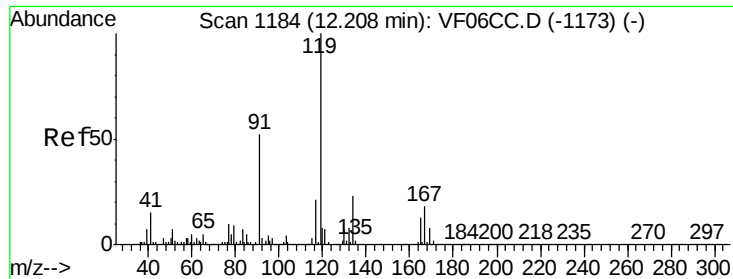
126 35.1 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

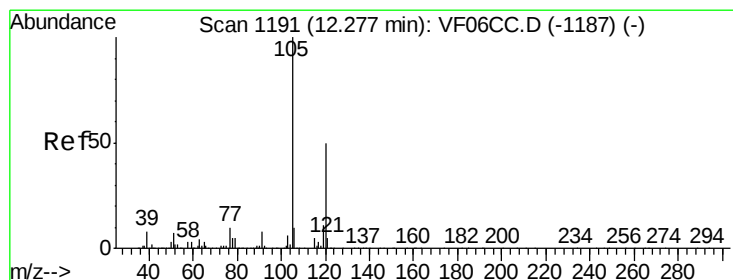
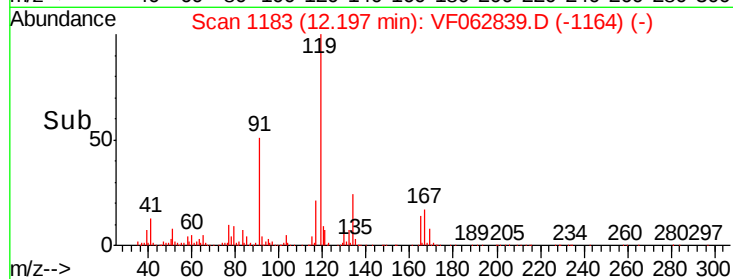
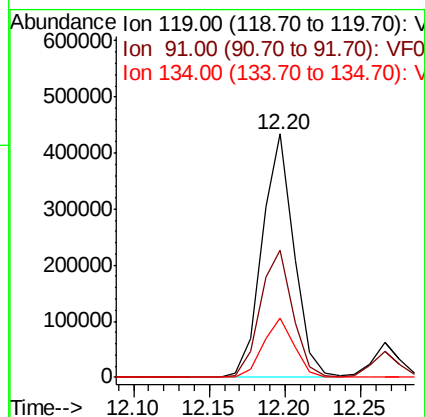
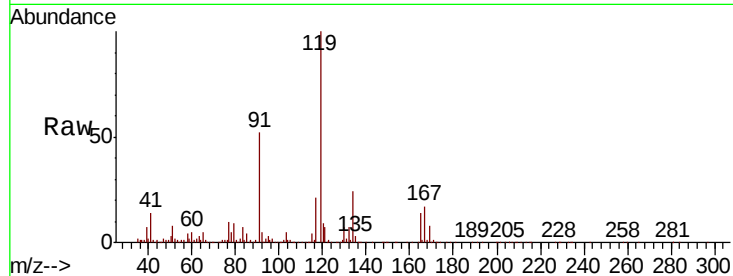




#83  
tert-Butylbenzene  
Concen: 21.529 ug/l  
RT: 12.20 min Scan# 1183  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

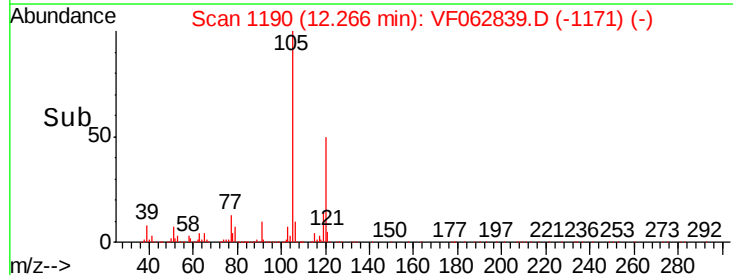
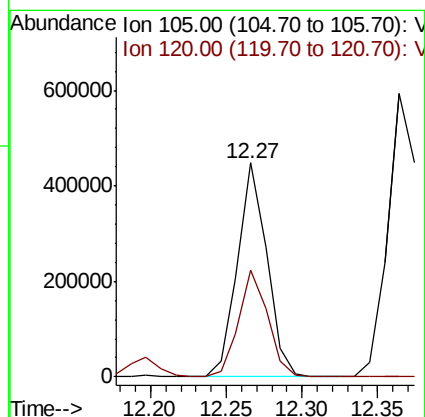
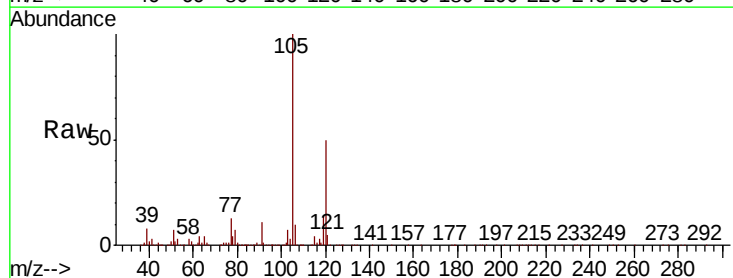
Instrument :  
MSVOA\_F  
ClientSampled :

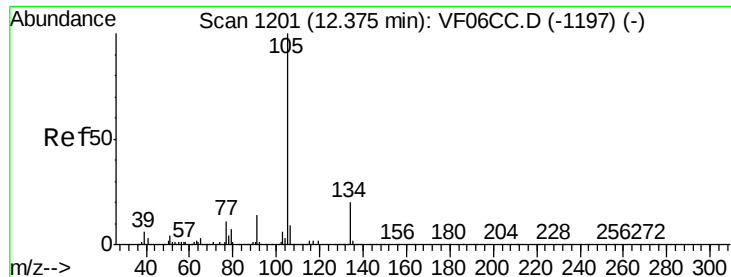
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 52.1  | 28.9  | 86.7  |
| 134     | 24.4  | 14.3  | 42.9  |



#84  
1,2,4-Trimethylbenzene  
Concen: 21.468 ug/l  
RT: 12.27 min Scan# 1190  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 49.8  | 27.1  | 81.3  |





#85

sec-Butylbenzene

Concen: 21.951 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

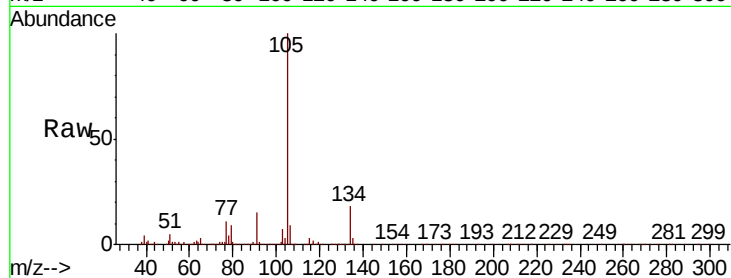
ClientSampleId :

Tot Ion:105 Resp: 856250

Ion Ratio Lower Upper

105 100

134 18.1 10.5 31.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.36

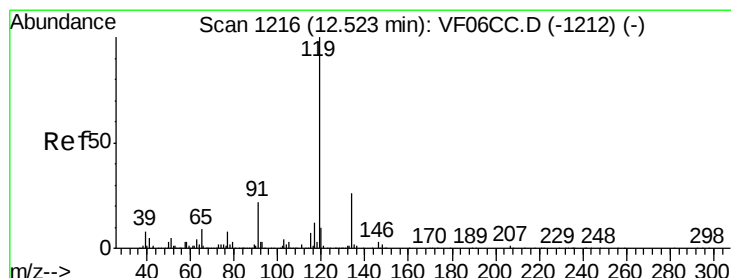
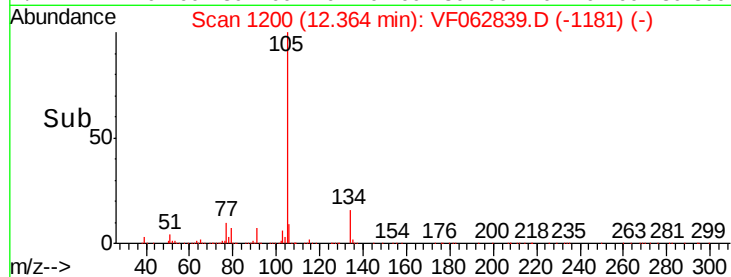
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 21.736 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. -0.02 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

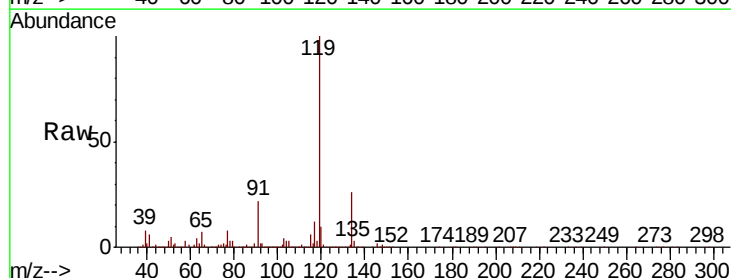
Tgt Ion:119 Resp: 705716

Ion Ratio Lower Upper

119 100

134 26.1 15.5 46.5

91 21.9 10.3 30.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

600000

500000

400000

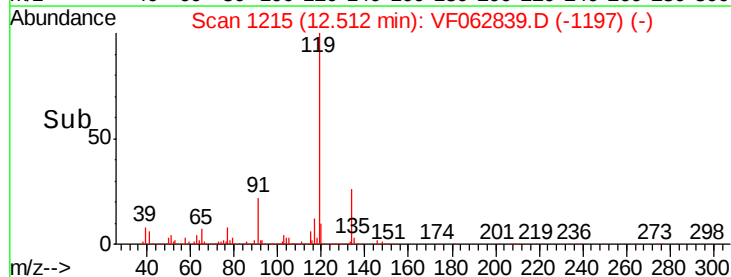
300000

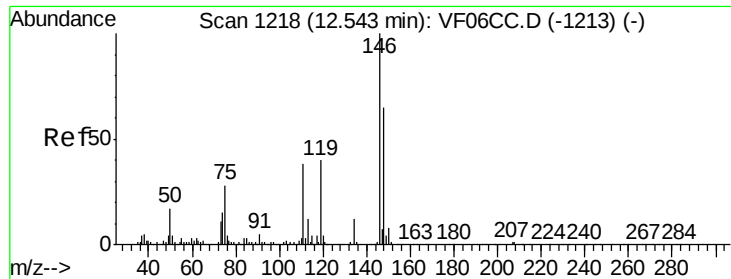
200000

100000

0

Time-->

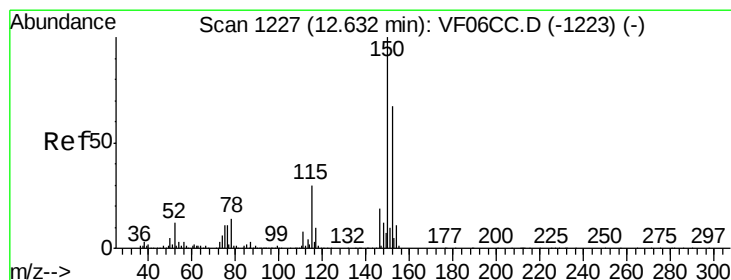
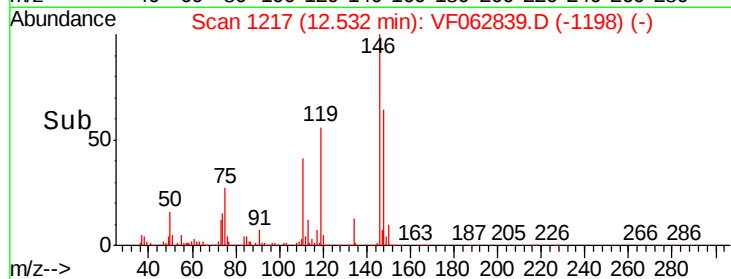
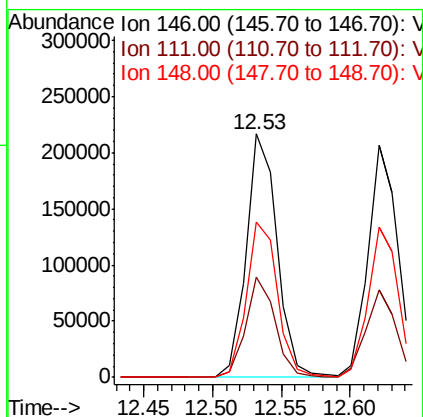
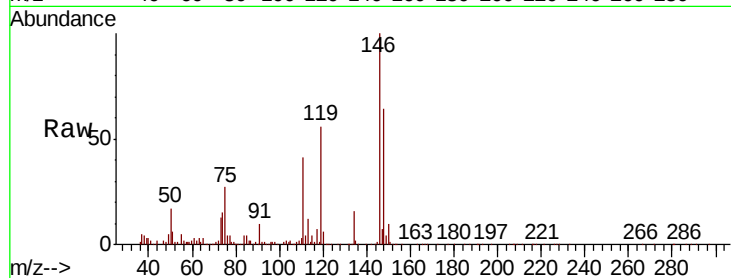




#87  
 1,3-Dichlorobenzene  
 Concen: 20.978 ug/l  
 RT: 12.53 min Scan# 1217  
 Delta R.T. -0.01 min  
 Lab File: VF062839.D  
 Acq: 4 Jun 2019 15:24

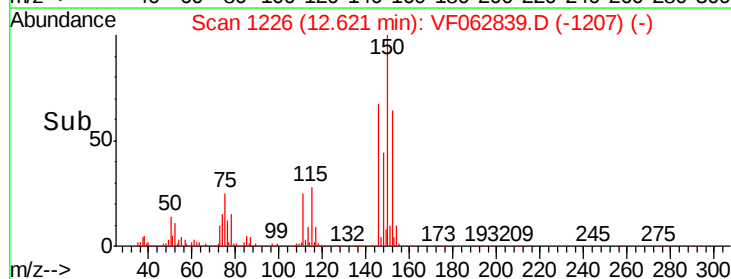
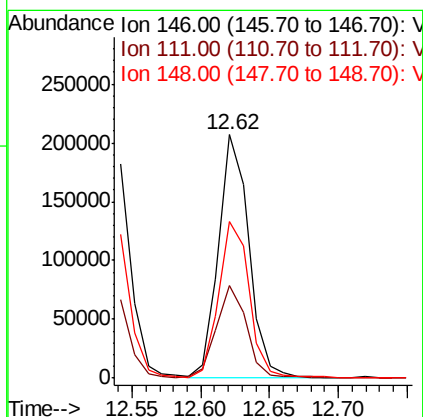
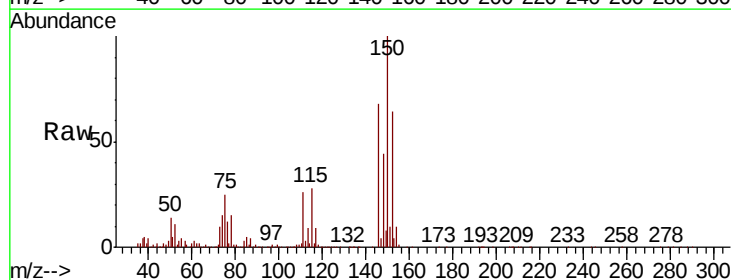
Instrument :  
 MSVOA\_F  
 ClientSampleID :

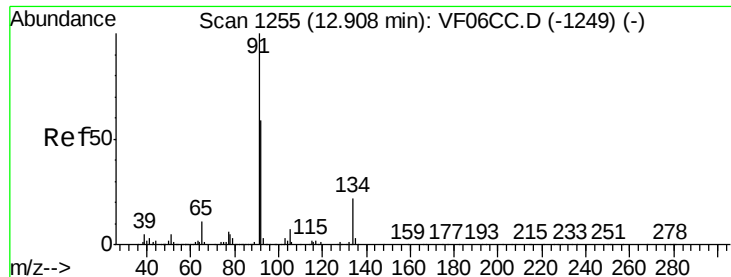
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.2  | 19.6  | 58.8  |
| 148     | 64.0  | 34.2  | 102.5 |



#88  
 1,4-Dichlorobenzene  
 Concen: 20.856 ug/l  
 RT: 12.62 min Scan# 1226  
 Delta R.T. -0.01 min  
 Lab File: VF062839.D  
 Acq: 4 Jun 2019 15:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.8  | 20.3  | 60.9  |
| 148     | 64.5  | 34.0  | 101.8 |

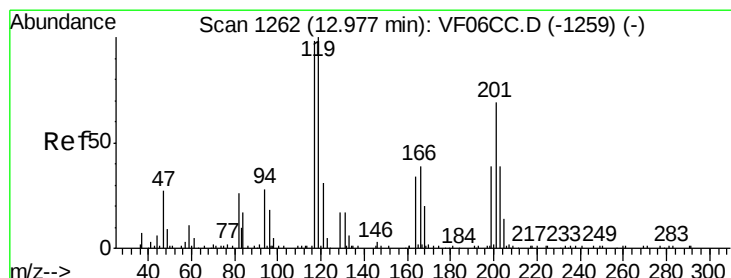
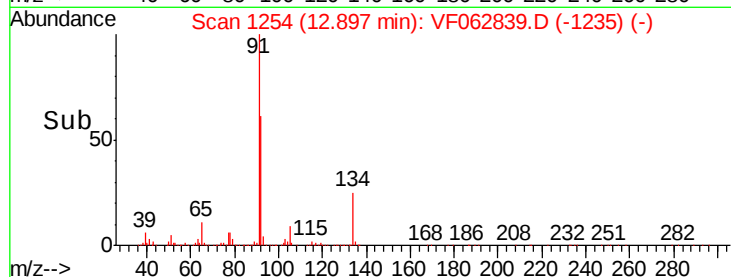
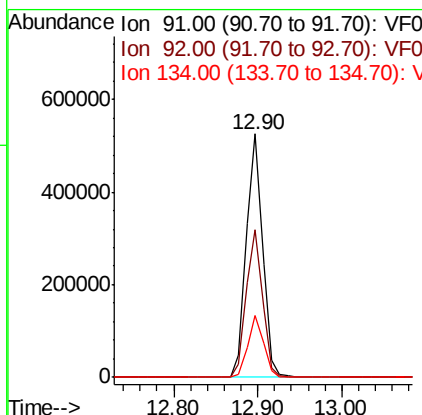
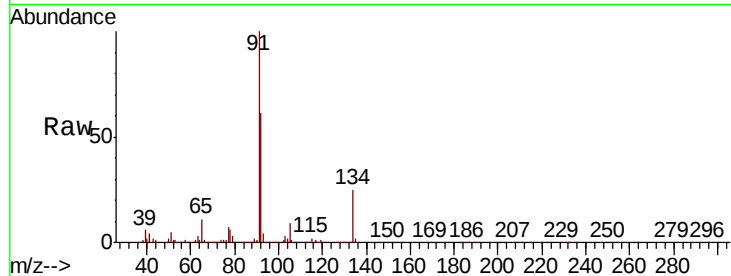




#89  
n-Butylbenzene  
Concen: 21.834 ug/l  
RT: 12.90 min Scan# 1254  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

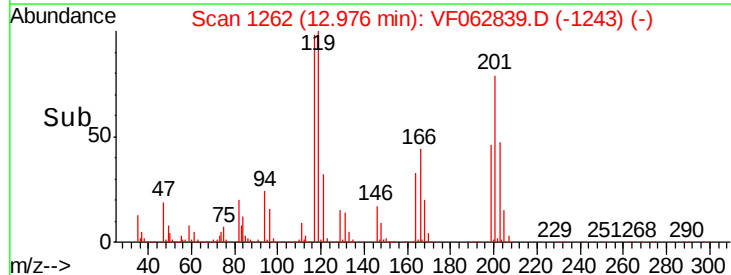
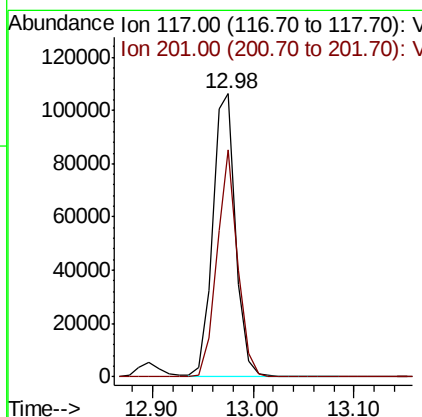
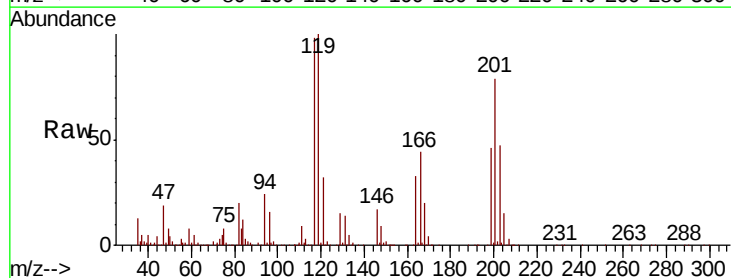
Instrument :  
MSVOA\_F  
ClientSampleId :

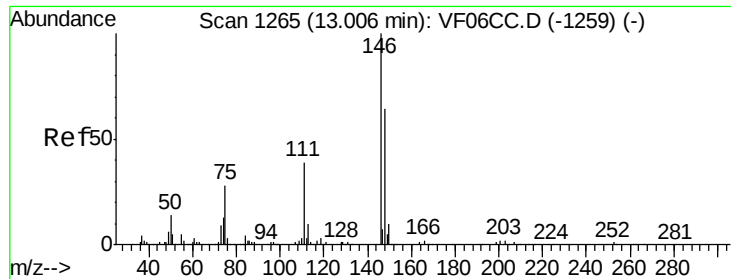
| Tot Ion   | 91    | Resp  | 713106 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 60.9  | 34.2  | 102.6  |
| 134       | 25.4  | 15.8  | 47.3   |



#90  
Hexachloroethane  
Concen: 21.380 ug/l  
RT: 12.98 min Scan# 1262  
Delta R.T. -0.01 min  
Lab File: VF062839.D  
Acq: 4 Jun 2019 15:24

| Tgt Ion   | 117   | Resp  | 169299 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 201       | 82.0  | 38.9  | 116.7  |

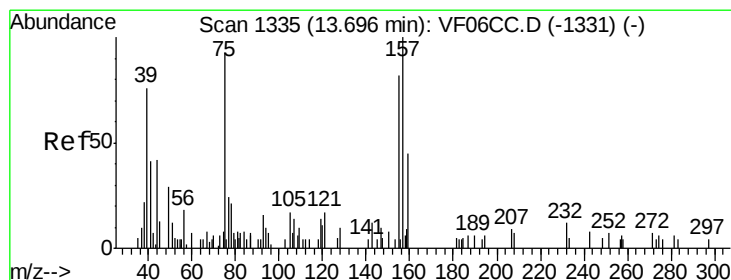
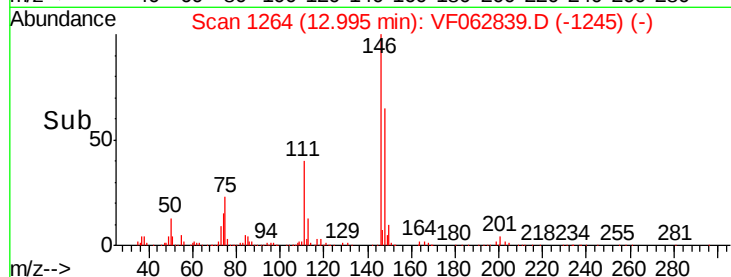
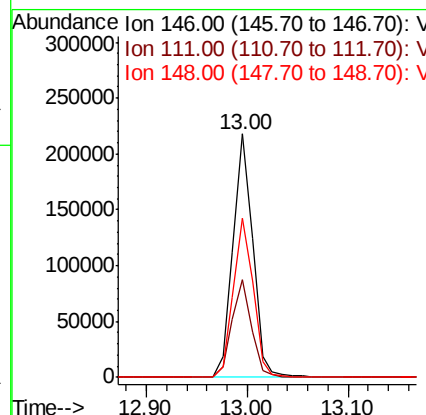
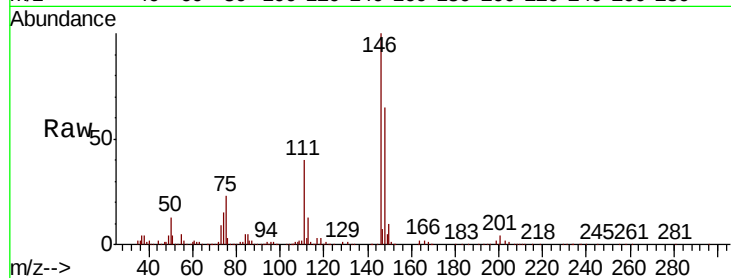




#91  
 1,2-Dichlorobenzene  
 Concen: 20.924 ug/l  
 RT: 13.00 min Scan# 1264  
 Delta R.T. -0.01 min  
 Lab File: VF062839.D  
 Acq: 4 Jun 2019 15:24

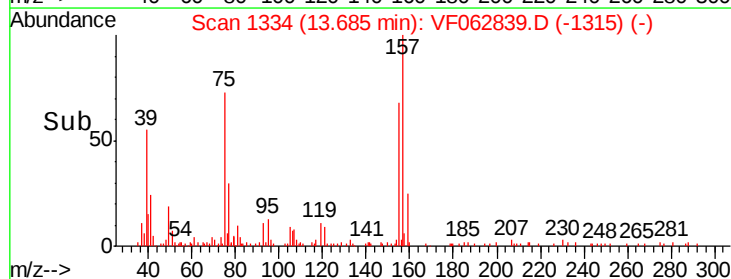
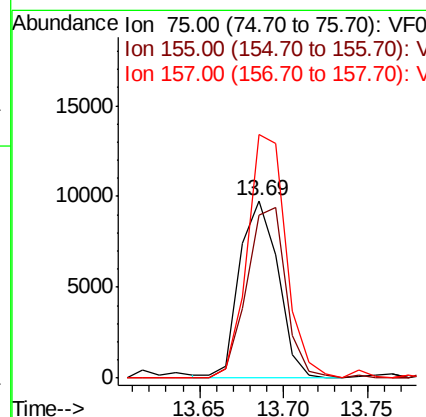
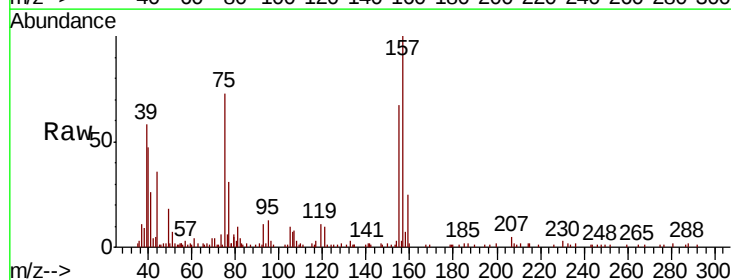
Instrument :  
 MSVOA\_F  
 ClientSampleId :

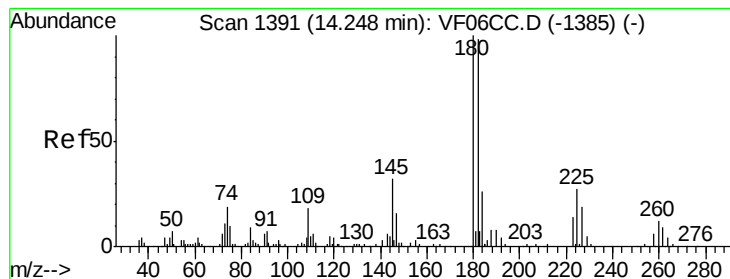
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.9  | 20.4  | 61.3  |
| 148     | 65.3  | 34.1  | 102.3 |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 18.360 ug/l  
 RT: 13.69 min Scan# 1334  
 Delta R.T. -0.01 min  
 Lab File: VF062839.D  
 Acq: 4 Jun 2019 15:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 92.0  | 51.7  | 155.1 |
| 157     | 146.1 | 66.8  | 200.6 |





#93

1,2,4-Trichlorobenzene

Concen: 20.334 ug/l

RT: 14.24 min Scan# 1390

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

ClientSampleId :

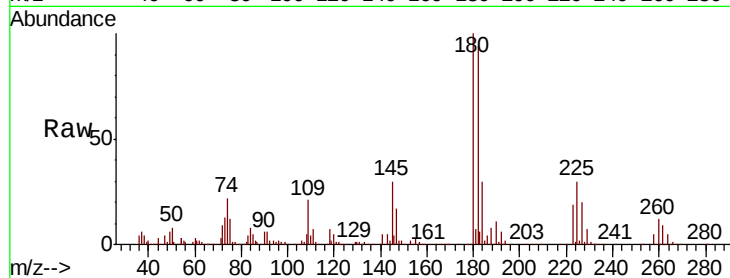
Tot Ion:180 Resp: 198653

Ion Ratio Lower Upper

180 100

182 94.1 50.3 150.9

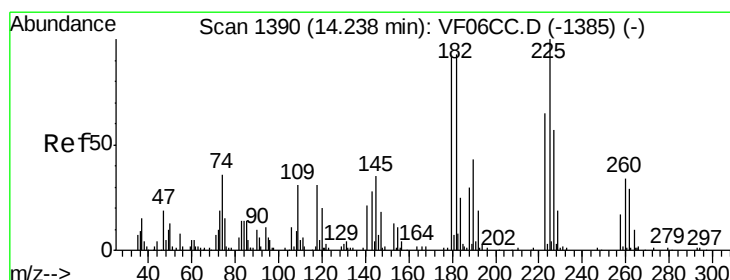
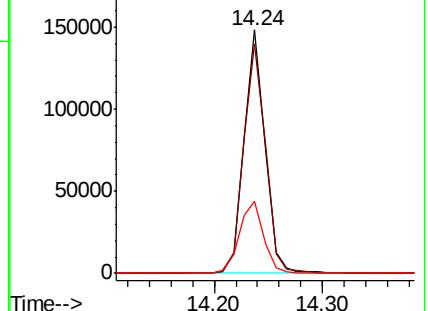
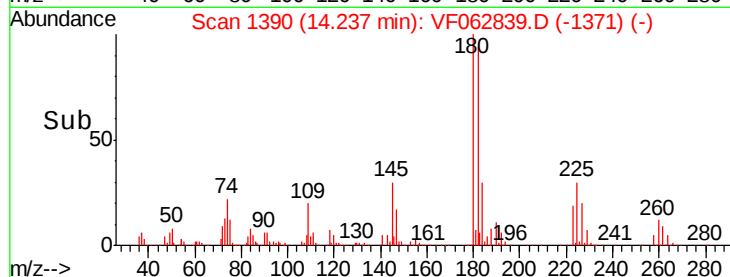
145 29.8 15.4 46.2



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



#94

Hexachlorobutadiene

Concen: 20.853 ug/l

RT: 14.23 min Scan# 1389

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

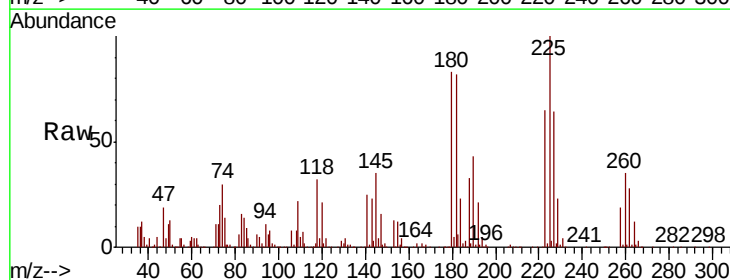
Tgt Ion:225 Resp: 140931

Ion Ratio Lower Upper

225 100

223 65.5 30.8 92.4

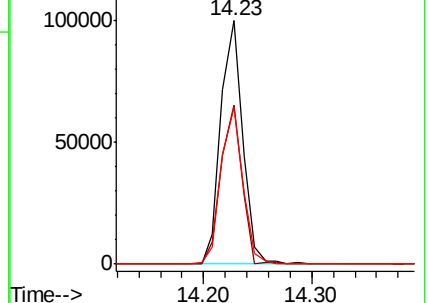
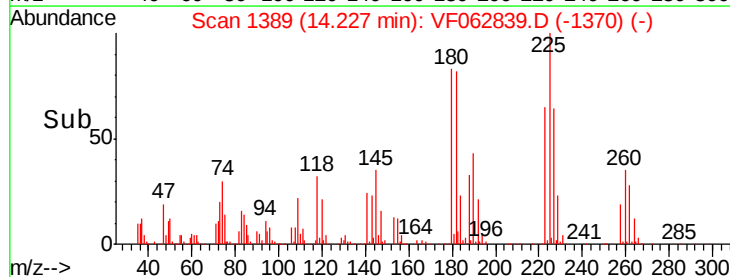
227 64.2 31.9 95.5

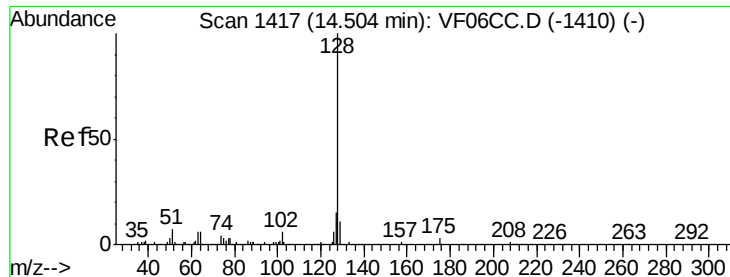


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 20.347 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

Instrument :

MSVOA\_F

ClientSampleId :

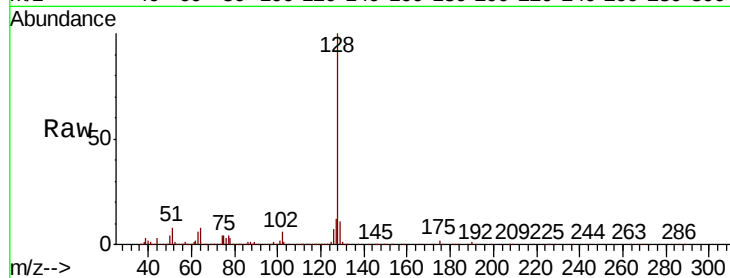
Tot Ion:128 Resp: 325658

Ion Ratio Lower Upper

128 100

127 12.3 9.7 14.5

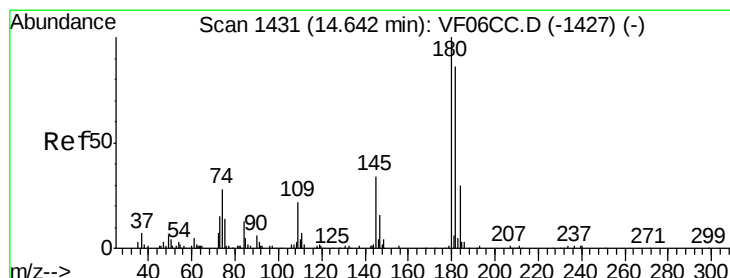
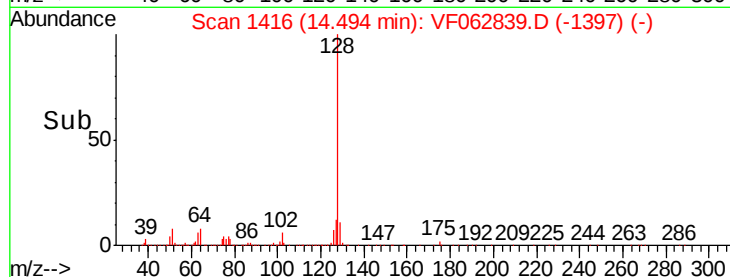
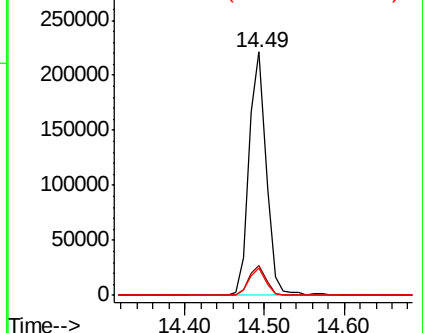
129 11.4 9.4 14.2



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: 19.889 ug/l

RT: 14.63 min Scan# 1430

Delta R.T. -0.01 min

Lab File: VF062839.D

Acq: 4 Jun 2019 15:24

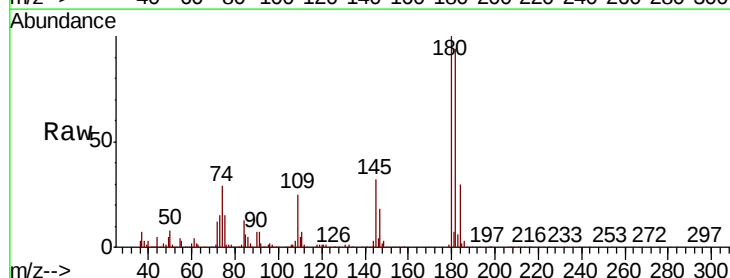
Tgt Ion:180 Resp: 177364

Ion Ratio Lower Upper

180 100

182 94.3 48.6 145.9

145 32.0 15.7 47.0



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

