

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\  
 Data File : VF062559.D  
 Acq On : 13 May 2019 23:23  
 Operator : FY/SY  
 Sample : VSTDCCC050EC  
 Misc : 5.00µ/5mL/MSVOA F/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: May 14 07:05:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.07  | 168  | 318618   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 5.79  | 114  | 416661   | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 9.93  | 117  | 370612   | 50.00 | ug/l  | 0.03     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 229600   | 50.00 | ug/l  | 0.01     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.05   | 65  | 164929   | 54.77 | ug/l    | 0.03 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 109.54% |      |
| 35) Dibromofluoromethane  | 4.33   | 113 | 190825   | 57.49 | ug/l    | 0.03 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 114.98% |      |
| 50) Toluene-d8            | 7.73   | 98  | 450597   | 56.08 | ug/l    | 0.03 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.16% |      |
| 62) 4-Bromofluorobenzene  | 11.51  | 95  | 209266   | 57.73 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 115.46% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.01 | 85  | 153787 | 41.705  | ug/l   | 99     |
| 3) Chloromethane              | 1.15 | 50  | 108265 | 44.517  | ug/l   | 96     |
| 4) Vinyl Chloride             | 1.20 | 62  | 107643 | 44.374  | ug/l   | 100    |
| 5) Bromomethane               | 1.40 | 94  | 89577  | 48.882  | ug/l   | 100    |
| 6) Chloroethane               | 1.45 | 64  | 59070  | 48.435  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 1.56 | 101 | 262059 | 52.067  | ug/l   | 95     |
| 8) Diethyl Ether              | 1.72 | 74  | 37508  | 49.252  | ug/l   | 92     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.92 | 101 | 138765 | 48.292  | ug/l   | 93     |
| 10) Methyl Iodide             | 1.99 | 142 | 242260 | 51.160  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 2.71 | 59  | 39391  | 231.470 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 1.88 | 96  | 110087 | 45.066  | ug/l   | 98     |
| 13) Acrolein                  | 2.12 | 56  | 27786  | 265.455 | ug/l   | 100    |
| 14) Allyl chloride            | 2.21 | 41  | 169402 | 78.504  | ug/l   | 94     |
| 15) Acrylonitrile             | 3.10 | 53  | 85182  | 264.245 | ug/l   | 94     |
| 16) Acetone                   | 2.36 | 43  | 141006 | 231.492 | ug/l   | 99     |
| 17) Carbon Disulfide          | 1.92 | 76  | 213561 | 40.095  | ug/l   | 97     |
| 18) Methyl Acetate            | 2.47 | 43  | 59262  | 53.573  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 2.56 | 73  | 241275 | 47.848  | ug/l   | 94     |
| 20) Methylene Chloride        | 2.34 | 84  | 61168  | 27.756  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 2.44 | 96  | 110197 | 47.348  | ug/l   | 96     |
| 22) Diisopropyl ether         | 2.95 | 45  | 335704 | 49.776  | ug/l   | 98     |
| 23) Vinyl Acetate             | 3.36 | 43  | 734929 | 244.500 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 3.03 | 63  | 215513 | 52.872  | ug/l   | 99     |
| 25) 2-Butanone                | 4.54 | 43  | 182835 | 238.922 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 3.79 | 77  | 131990 | 57.985  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 3.66 | 96  | 148728 | 51.122  | ug/l   | 98     |
| 28) Bromochloromethane        | 3.93 | 49  | 96963  | 52.452  | ug/l   | 94     |
| 29) Tetrahydrofuran           | 4.28 | 42  | 83046  | 236.123 | ug/l   | 99     |
| 30) Chloroform                | 4.08 | 83  | 289916 | 52.647  | ug/l   | 93     |
| 31) Cyclohexane               | 3.90 | 56  | 148783 | 45.731  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 4.31 | 97  | 249219 | 52.805  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 4.50 | 75  | 176061 | 49.189  | ug/l   | 98     |
| 37) Ethyl Acetate             | 4.32 | 43  | 76410  | 55.390  | ug/l # | 98     |
| 38) Carbon Tetrachloride      | 4.21 | 117 | 276849 | 76.018  | ug/l   | 93     |

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 Misc : 5.00µl/5mL/MSVOA F/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleID :  
 VSTDCCC050EC

Quant Time: May 14 07:05:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 04:34:57 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.66  | 83   | 173855   | 48.432  | ug/l   | 96       |
| 40) Benzene                    | 4.85  | 78   | 400409   | 50.802  | ug/l   | 97       |
| 41) Methacrylonitrile          | 4.95  | 41   | 41352    | 48.182  | ug/l   | 92       |
| 42) 1,2-Dichloroethane         | 5.15  | 62   | 176641   | 53.585  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 7.13  | 43   | 80410    | 49.391  | ug/l   | 93       |
| 44) Trichloroethene            | 5.70  | 130  | 154159   | 53.244  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 6.43  | 63   | 97449    | 54.586  | ug/l   | 96       |
| 46) Dibromomethane             | 6.29  | 93   | 84085    | 56.807  | ug/l   | 97       |
| 47) Bromodichloromethane       | 6.58  | 83   | 200996   | 54.313  | ug/l   | 96       |
| 48) Methyl methacrylate        | 6.90  | 41   | 58396    | 50.757  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 6.90  | 88   | 9869     | 831.842 | ug/l   | 88       |
| 51) 4-Methyl-2-Pentanone       | 8.42  | 43   | 337067   | 273.232 | ug/l   | 99       |
| 52) Toluene                    | 7.80  | 92   | 258399   | 53.143  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 147012   | 52.524  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 7.48  | 75   | 173808   | 53.356  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 8.65  | 97   | 91945    | 59.567  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 8.78  | 69   | 80835    | 49.611  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.02  | 76   | 138247   | 59.294  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 7.47  | 63   | 118277   | 241.449 | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.64  | 43   | 222982   | 261.354 | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.88  | 129  | 146334   | 57.965  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 9.15  | 107  | 100343   | 55.311  | ug/l   | 97       |
| 64) Tetrachloroethene          | 8.33  | 164  | 149239   | 49.602  | ug/l   | 95       |
| 65) Chlorobenzene              | 9.95  | 112  | 338487   | 55.200  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.08 | 131  | 161493   | 52.206  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.05 | 91   | 558015   | 51.968  | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.28 | 106  | 409820   | 103.443 | ug/l   | 100      |
| 69) o-Xylene                   | 10.83 | 106  | 233160   | 54.464  | ug/l   | 95       |
| 70) Styrene                    | 10.91 | 104  | 331147   | 51.613  | ug/l   | 99       |
| 71) Bromoform                  | 10.89 | 173  | 90873    | 53.621  | ug/l   | 97       |
| 73) Isopropylbenzene           | 11.22 | 105  | 693369   | 50.940  | ug/l   | 99       |
| 74) N-amyl acetate             | 11.46 | 43   | 136317   | 46.648  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.78 | 83   | 121186   | 56.862  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.88 | 75   | 84843    | 52.179  | ug/l # | 100      |
| 77) Bromobenzene               | 11.59 | 156  | 189493   | 53.045  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.69 | 91   | 740611   | 51.106  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 461510   | 51.215  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.90 | 105  | 573770   | 48.093  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 44833    | 73.353  | ug/l # | 70       |
| 82) 4-Chlorotoluene            | 11.98 | 91   | 462639   | 51.982  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 615350   | 49.078  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 601340   | 51.506  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 12.38 | 105  | 799340   | 52.376  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.53 | 119  | 712686   | 50.263  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.55 | 146  | 347679   | 53.290  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.63 | 146  | 327476   | 52.005  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.91 | 91   | 639841   | 50.721  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.98 | 117  | 177899   | 50.249  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.01 | 146  | 333978   | 52.887  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 26166    | 54.802  | ug/l   | 97       |

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Operator : FY/SY  
Sample : VSTDCCC050EC  
Misc : 5.00g/5mL/MSVOA F/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

Quant Time: May 14 07:05:49 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 04:34:57 2019  
Response via : Initial Calibration

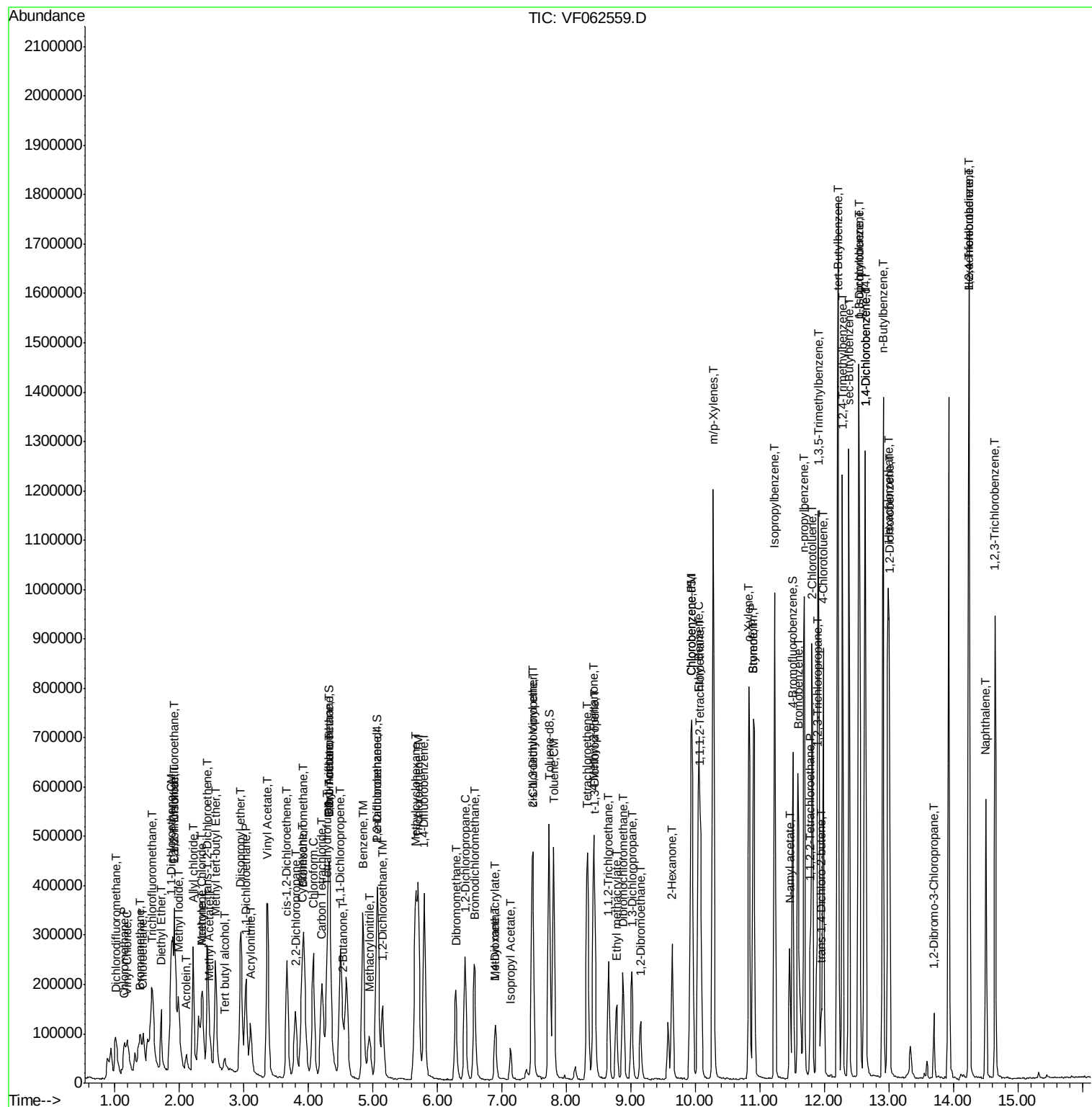
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.25 | 180  | 287803   | 50.811 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.24 | 225  | 208815   | 49.462 | ug/l  | 98       |
| 95) Naphthalene            | 14.51 | 128  | 450807   | 52.939 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.64 | 180  | 287624   | 52.415 | ug/l  | 99       |

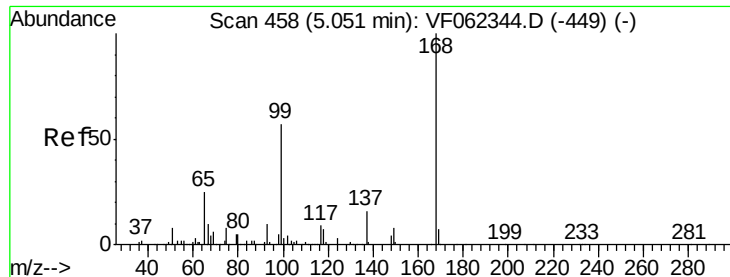
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051319\  
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Quant Time: May 14 07:05:49 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82F050619S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 04:34:57 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

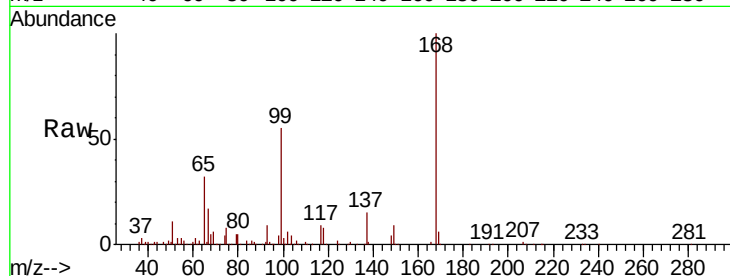
VSTDCCC050EC

Tot Ion:168 Resp: 318618

Ion Ratio Lower Upper

168 100

99 54.9 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.07

120000

100000

80000

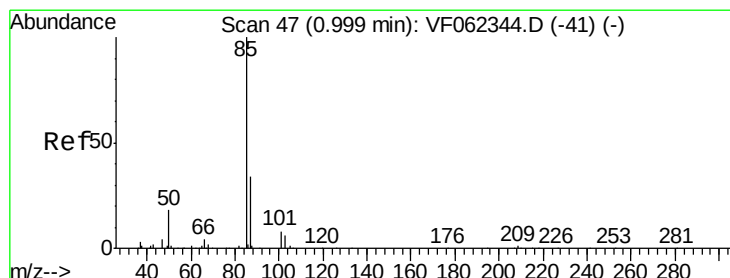
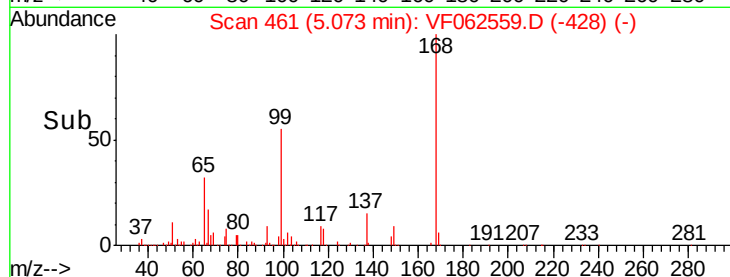
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 41.705 ug/l

RT: 1.01 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062559.D

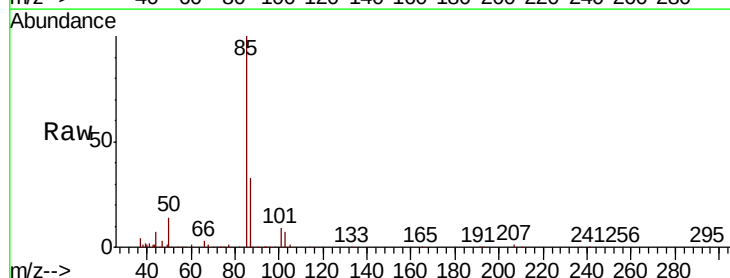
Acq: 13 May 2019 23:23

Tgt Ion: 85 Resp: 153787

Ion Ratio Lower Upper

85 100

87 33.2 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

50000

40000

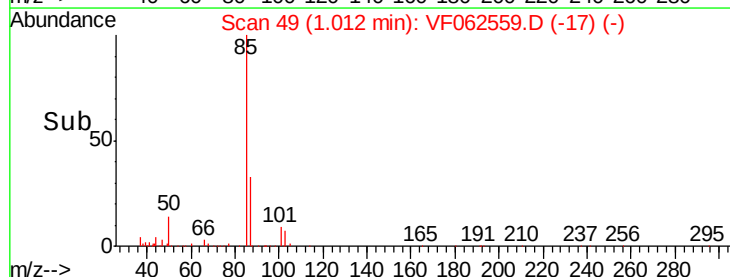
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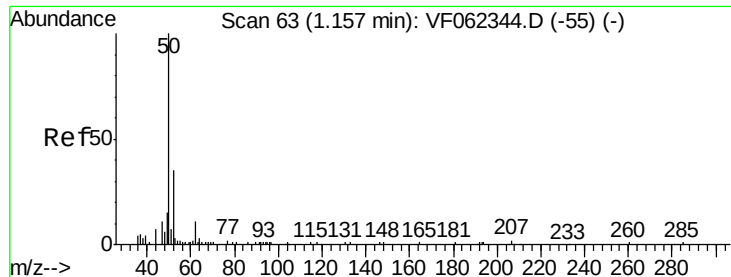
20000

10000

0

Time--> 0.80 1.00 1.20





#3

Chloromethane

Concen: 44.517 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

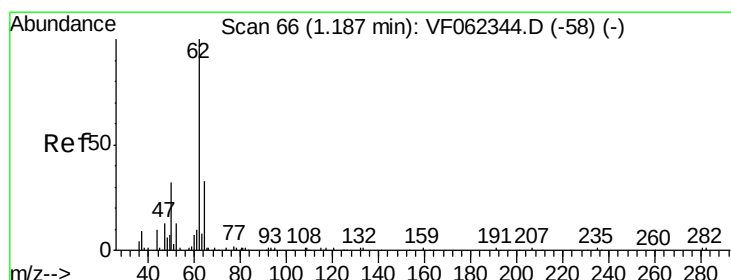
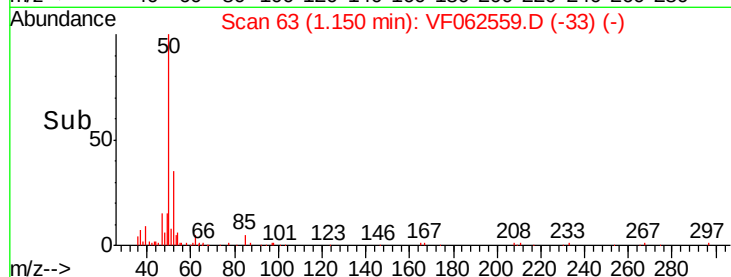
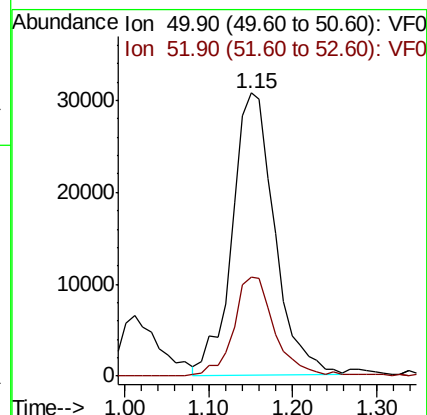
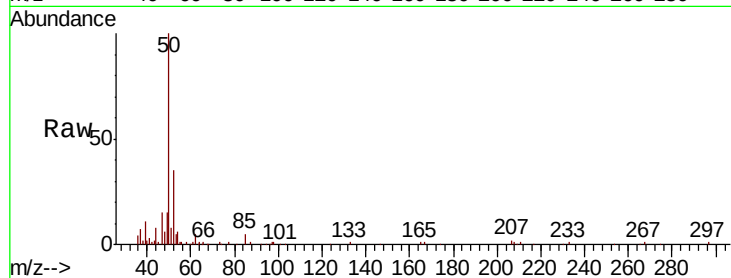
VSTDCCC050EC

Tot Ion: 50 Resp: 108265

Ion Ratio Lower Upper

50 100

52 35.1 26.1 39.1



#4

Vinyl Chloride

Concen: 44.374 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.01 min

Lab File: VF062559.D

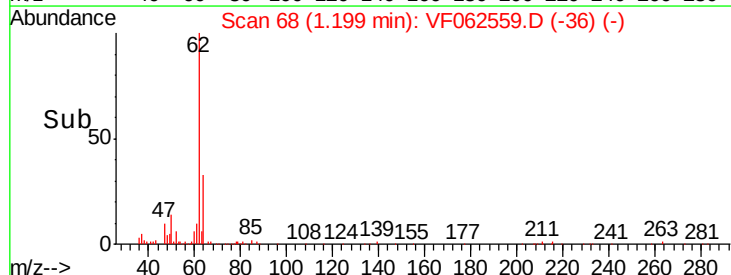
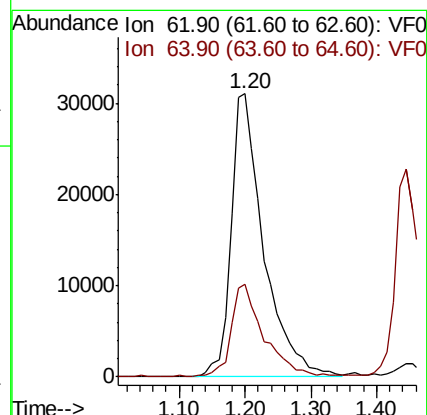
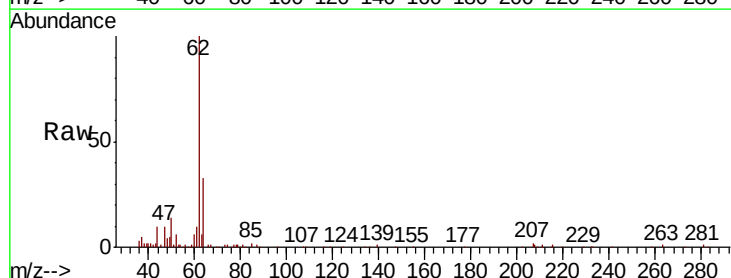
Acq: 13 May 2019 23:23

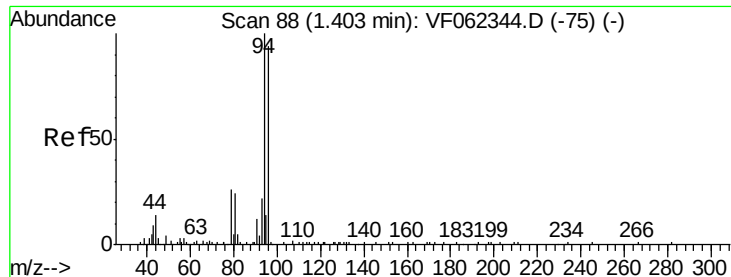
Tgt Ion: 62 Resp: 107643

Ion Ratio Lower Upper

62 100

64 32.6 26.1 39.1





#5

Bromomethane

Concen: 48.882 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

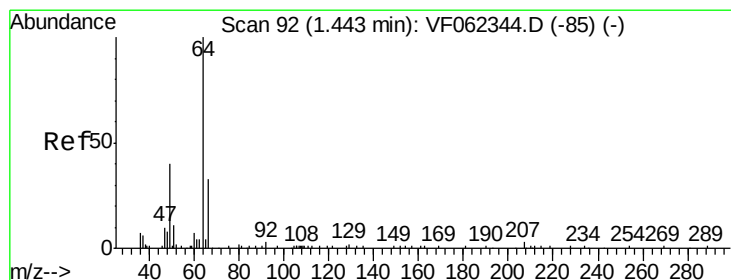
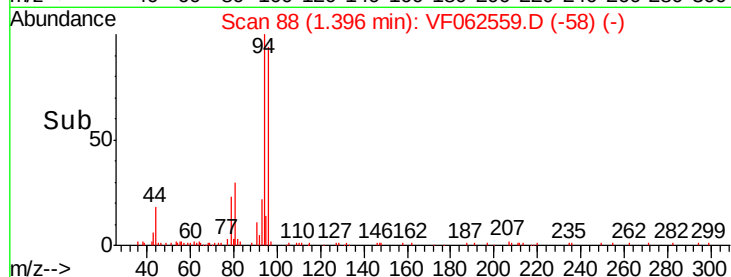
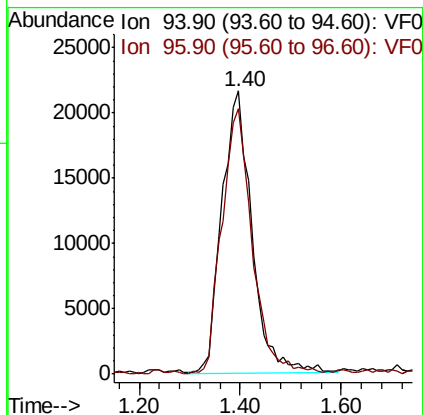
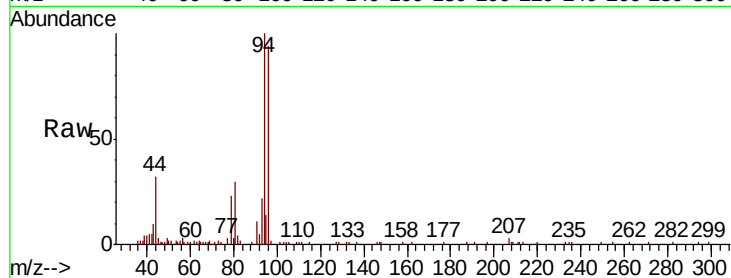
VSTDCCC050EC

Tot Ion: 94 Resp: 89577

Ion Ratio Lower Upper

94 100

96 94.1 75.4 113.2



#6

Chloroethane

Concen: 48.435 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.00 min

Lab File: VF062559.D

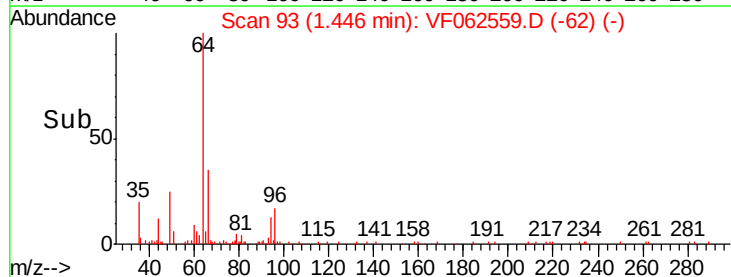
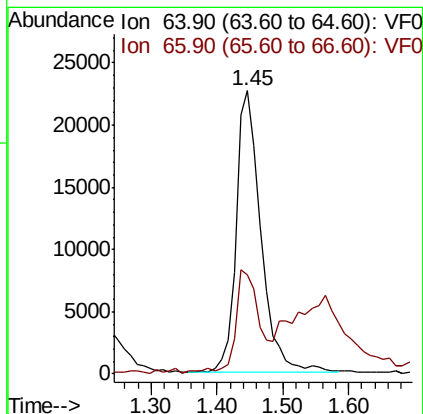
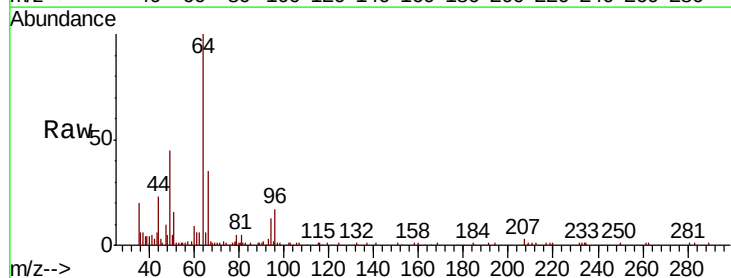
Acq: 13 May 2019 23:23

Tgt Ion: 64 Resp: 59070

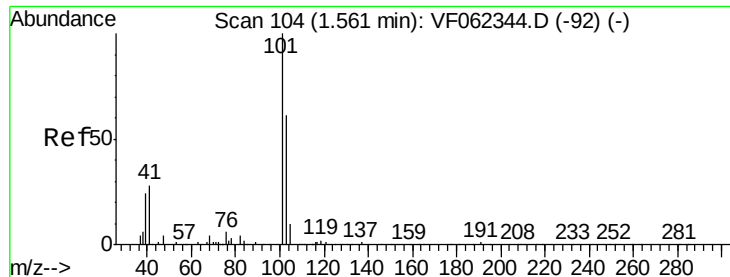
Ion Ratio Lower Upper

64 100

66 34.2 26.6 39.8





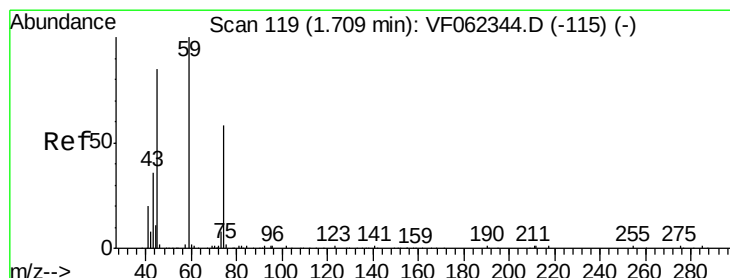
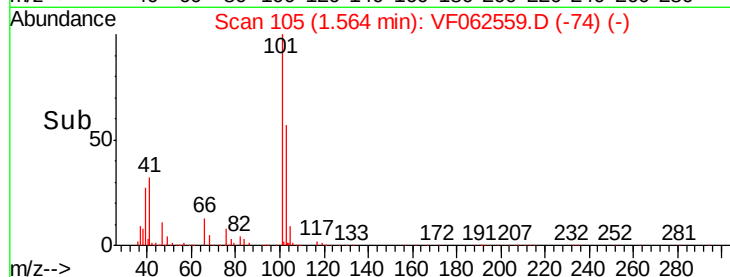
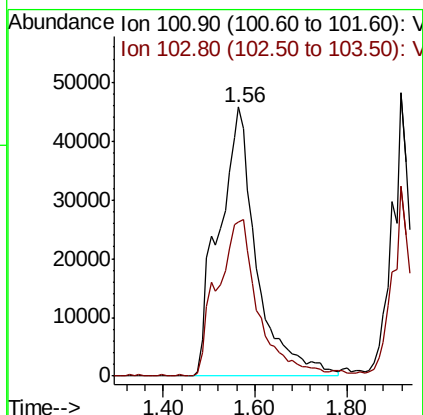
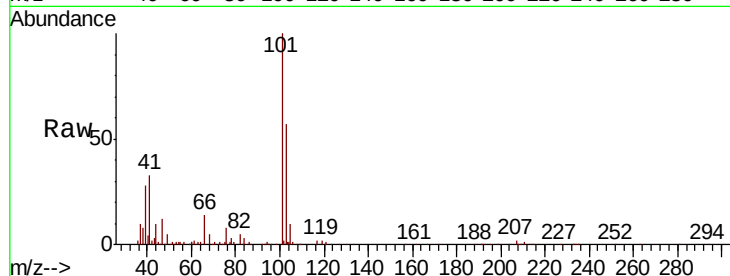


#7

Trichlorofluoromethane  
Concen: 52.067 ug/l  
RT: 1.56 min Scan# 105  
Delta R.T. 0.00 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

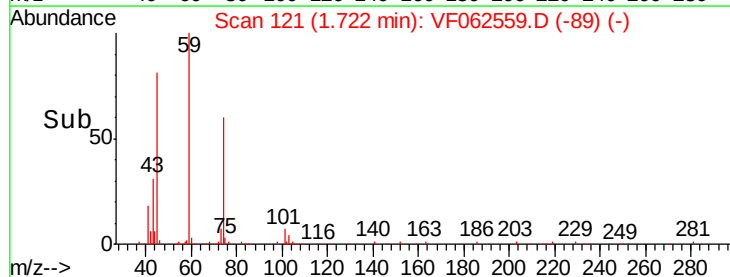
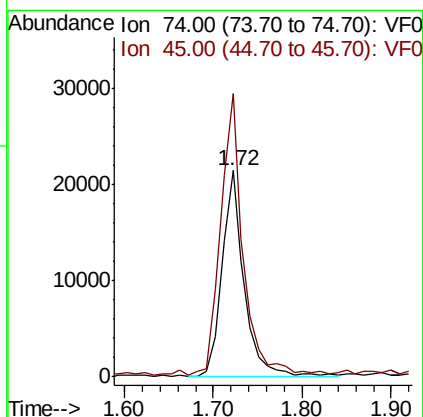
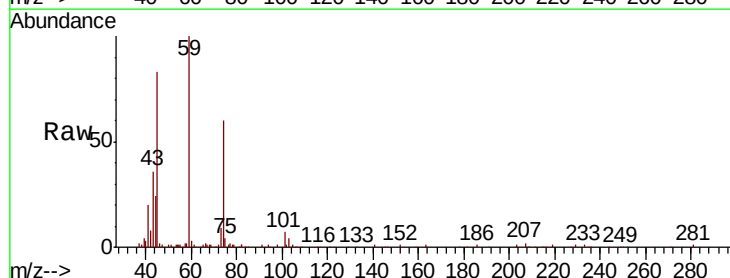
Tot Ion:101 Resp: 262059  
Ion Ratio Lower Upper  
101 100  
103 57.1 48.5 72.7



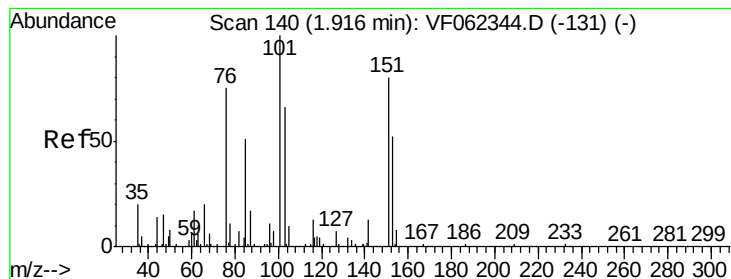
#8

Diethyl Ether  
Concen: 49.252 ug/l  
RT: 1.72 min Scan# 121  
Delta R.T. 0.01 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 74 Resp: 37508  
Ion Ratio Lower Upper  
74 100  
45 137.1 73.9 221.6







#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.292 ug/l

RT: 1.92 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

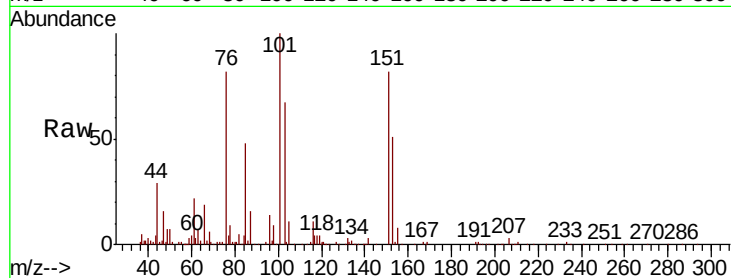
Tot Ion:101 Resp: 138765

Ion Ratio Lower Upper

101 100

85 48.5 39.5 59.3

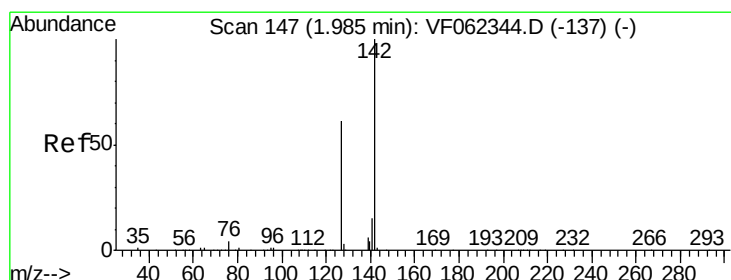
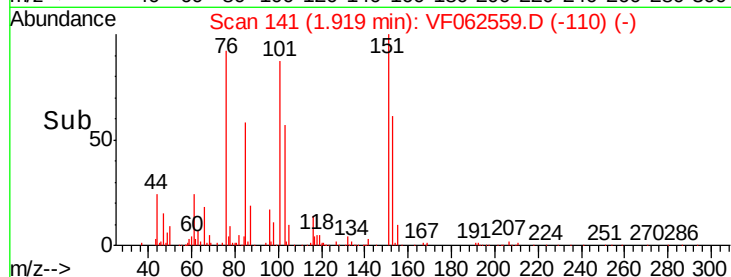
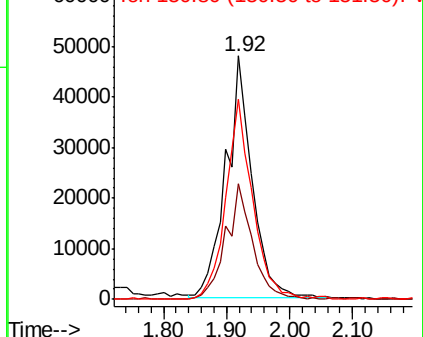
151 84.1 59.9 89.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 51.160 ug/l

RT: 1.99 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

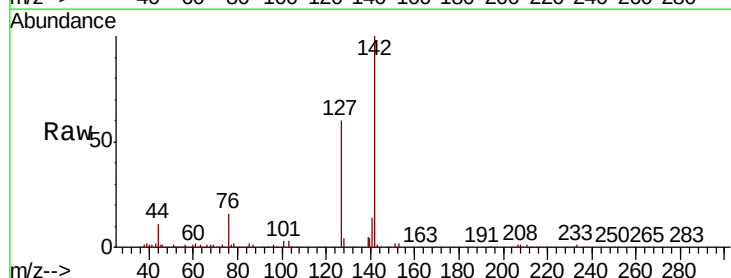
Tgt Ion:142 Resp: 242260

Ion Ratio Lower Upper

142 100

127 59.7 48.4 72.6

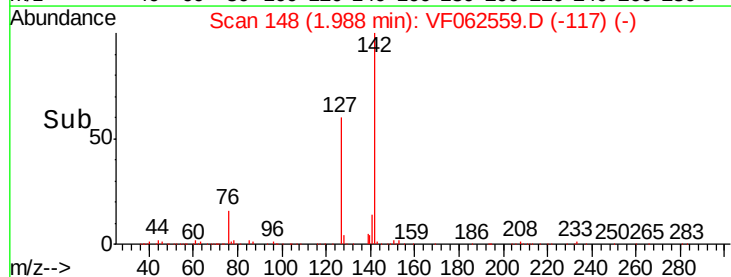
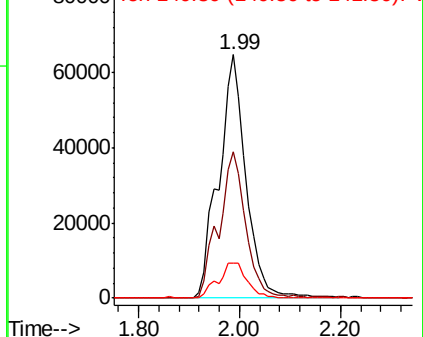
141 15.4 12.2 18.4

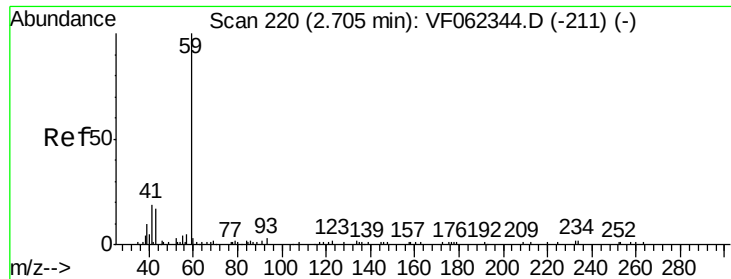


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



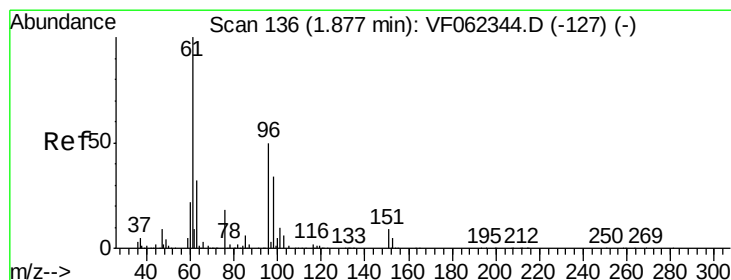
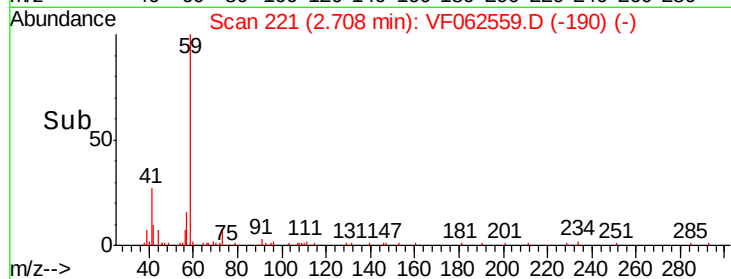
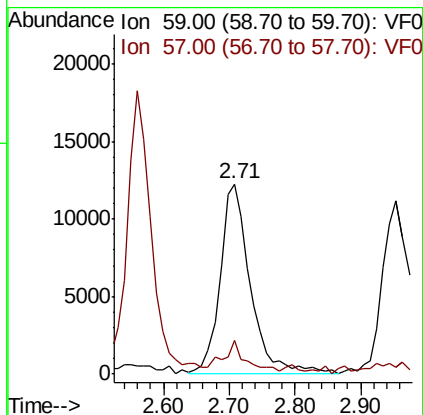
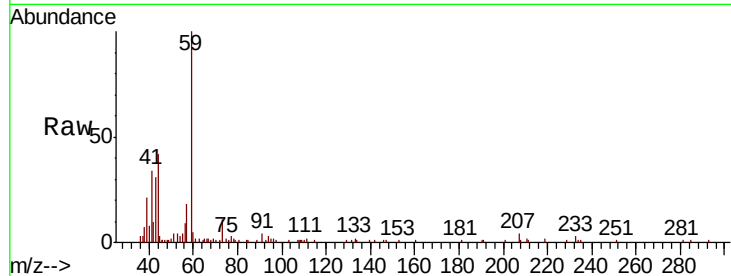


#11

Tert butyl alcohol  
Concen: 231.470 ug/l  
RT: 2.71 min Scan# 221  
Delta R.T. 0.00 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

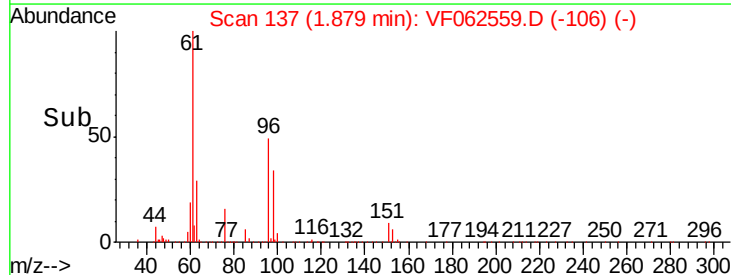
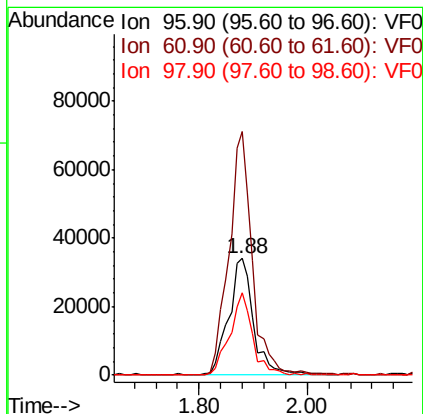
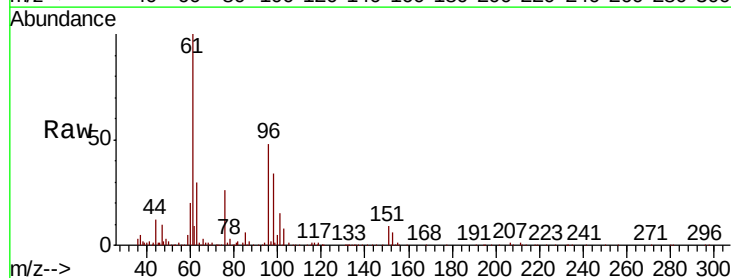
Tot Ion: 59 Resp: 39391  
Ion Ratio Lower Upper  
59 100  
57 11.8 9.3 13.9

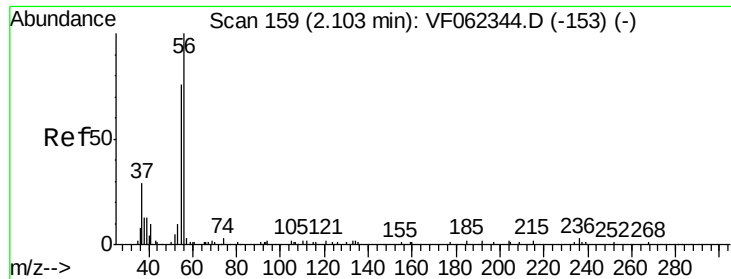


#12

1,1-Dichloroethene  
Concen: 45.066 ug/l  
RT: 1.88 min Scan# 137  
Delta R.T. 0.00 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 96 Resp: 110087  
Ion Ratio Lower Upper  
96 100  
61 208.1 163.2 244.8  
98 70.4 55.2 82.8

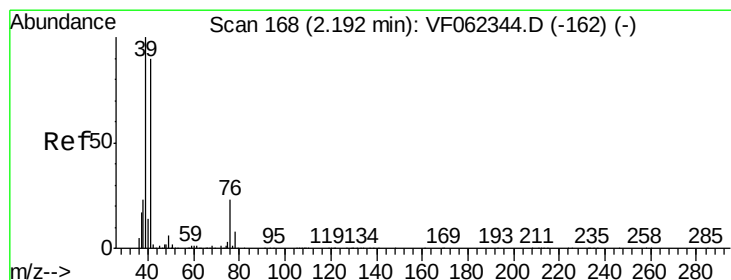
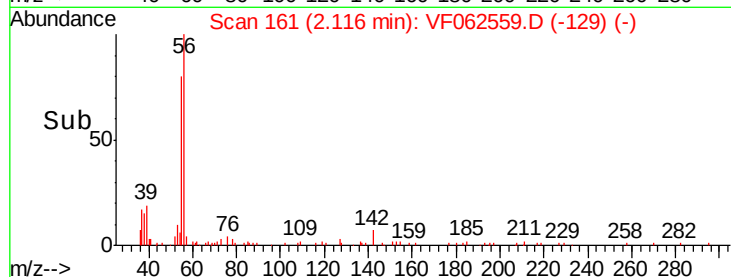
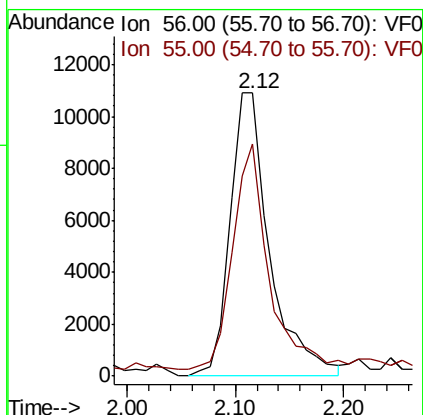
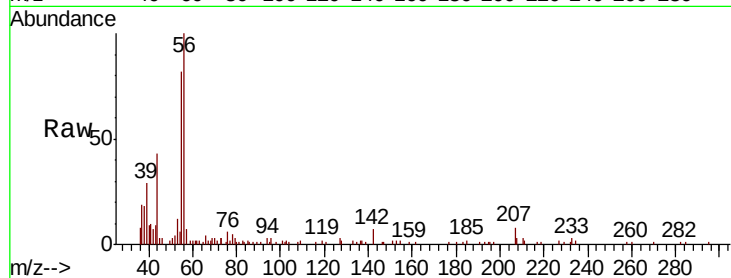




#13  
Acrolein  
Concen: 265.455 ug/l  
RT: 2.12 min Scan# 161  
Delta R.T. 0.01 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

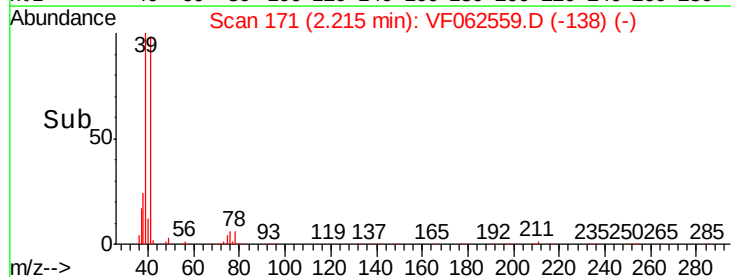
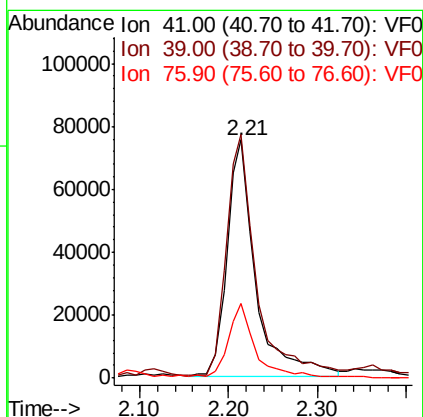
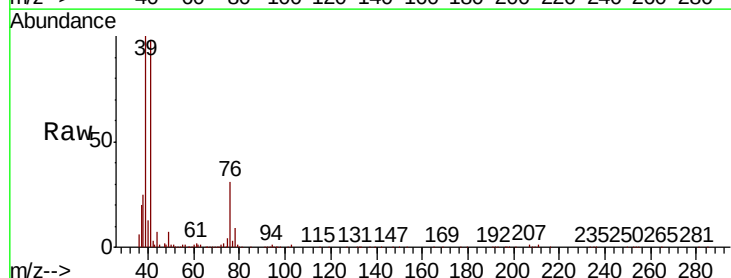
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

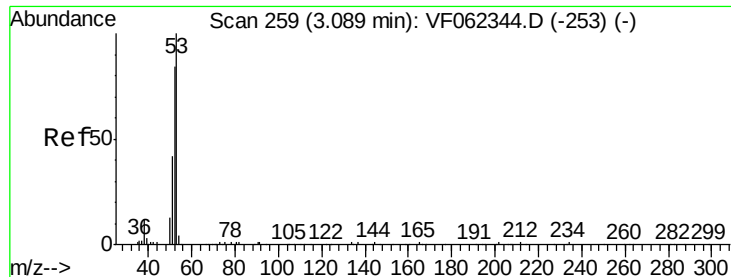
Tot Ion: 56 Resp: 27786  
Ion Ratio Lower Upper  
56 100  
55 73.4 58.4 87.6



#14  
Allyl chloride  
Concen: 78.504 ug/l  
RT: 2.21 min Scan# 171  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 41 Resp: 169402  
Ion Ratio Lower Upper  
41 100  
39 105.5 90.8 136.2  
76 27.6 22.2 33.4





#15

Acrylonitrile

Concen: 264.245 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

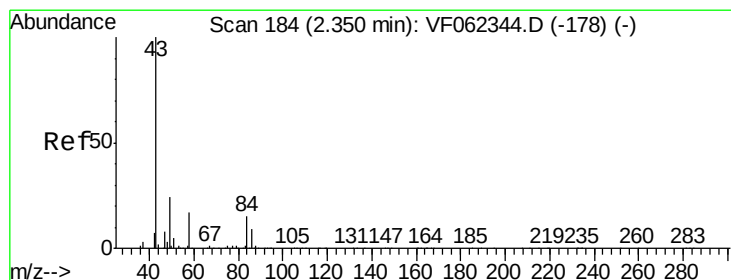
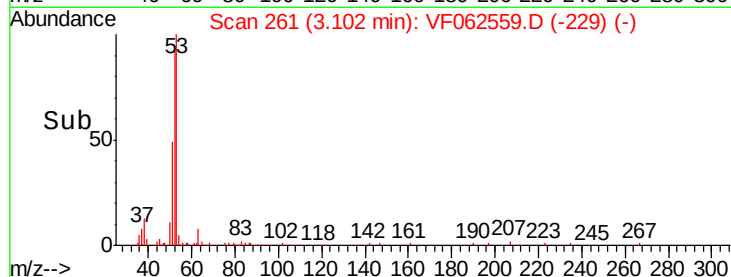
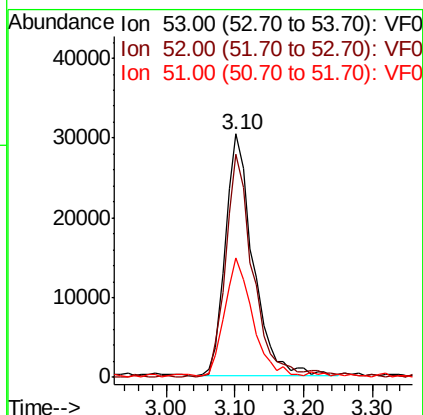
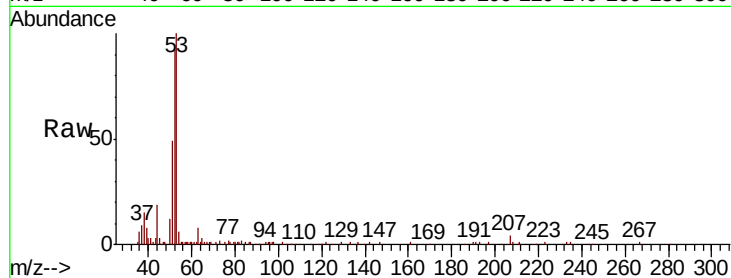
Tot Ion: 53 Resp: 85182

Ion Ratio Lower Upper

53 100

52 89.4 77.2 115.8

51 49.2 40.6 61.0



#16

Acetone

Concen: 231.492 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062559.D

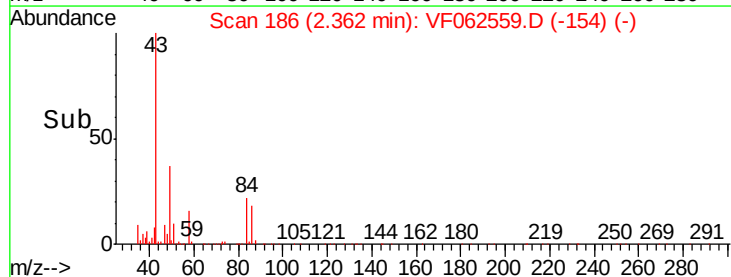
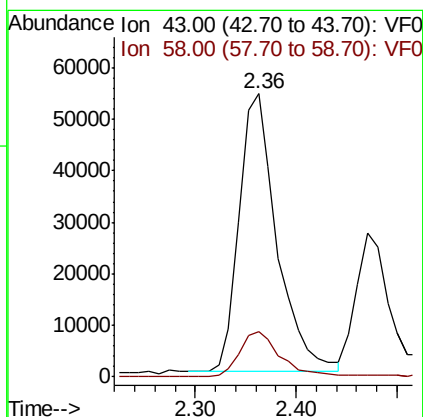
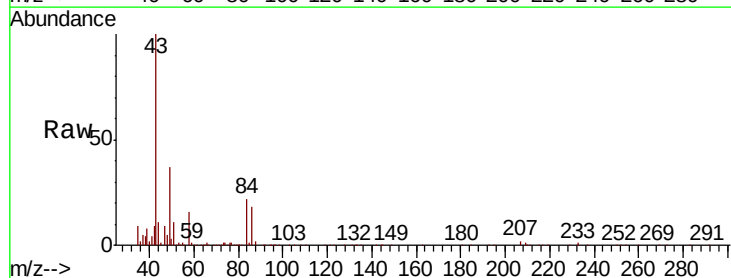
Acq: 13 May 2019 23:23

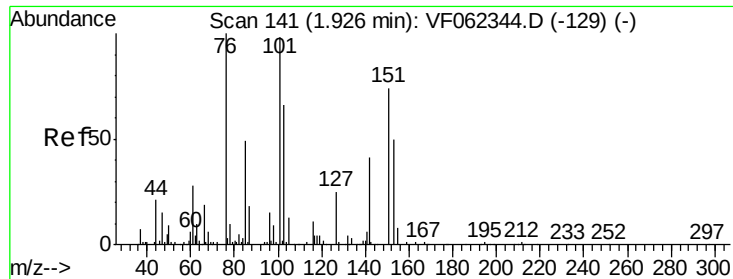
Tgt Ion: 43 Resp: 141006

Ion Ratio Lower Upper

43 100

58 16.2 13.1 19.7





#17

Carbon Disulfide

Concen: 40.095 ug/l

RT: 1.92 min Scan# 141

Delta R.T. -0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

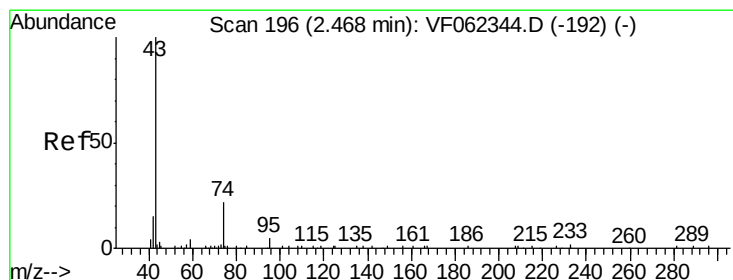
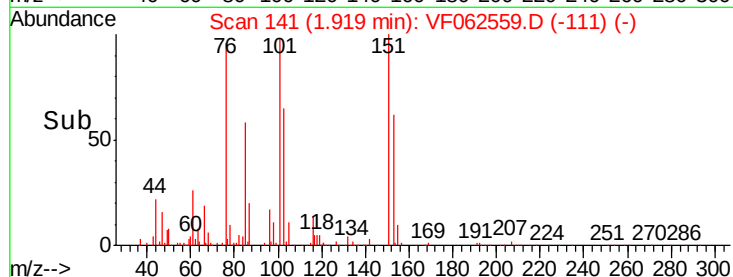
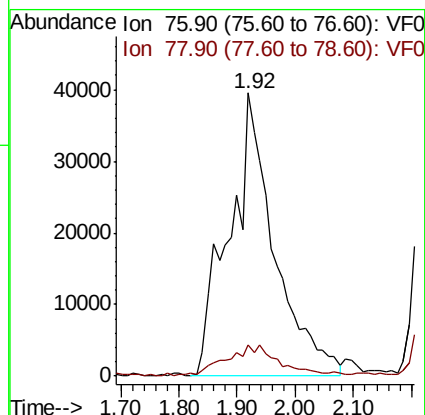
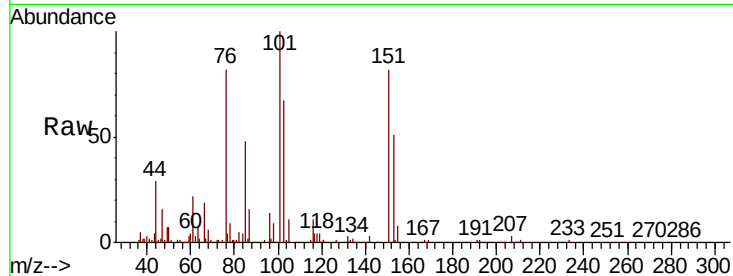
VSTDCCC050EC

Tot Ion: 76 Resp: 213561

Ion Ratio Lower Upper

76 100

78 10.2 9.0 13.4



#18

Methyl Acetate

Concen: 53.573 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.00 min

Lab File: VF062559.D

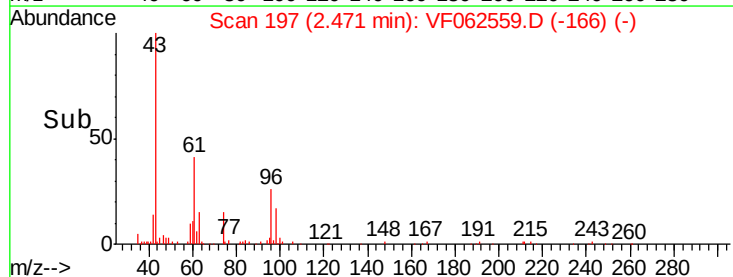
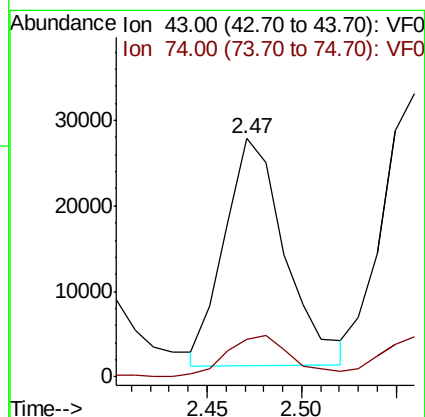
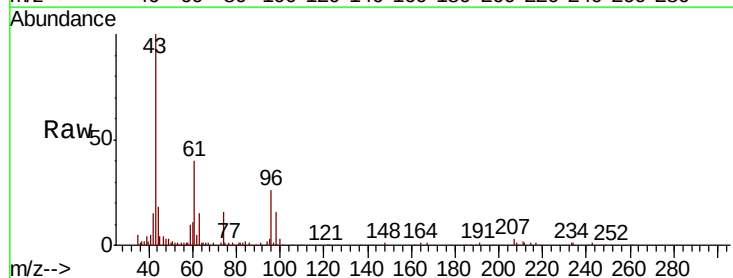
Acq: 13 May 2019 23:23

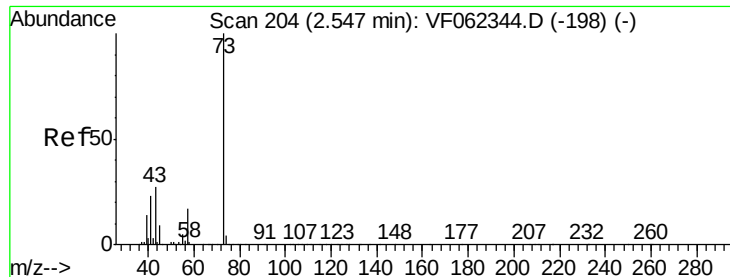
Tgt Ion: 43 Resp: 59262

Ion Ratio Lower Upper

43 100

74 19.5 15.0 22.4



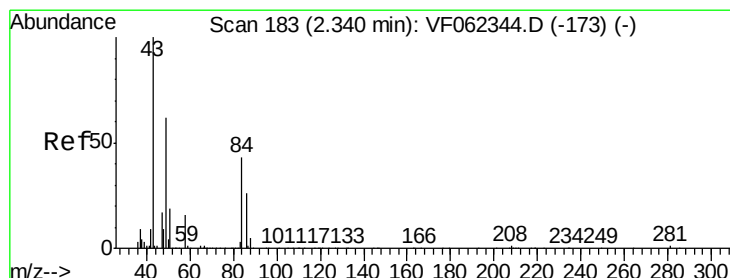
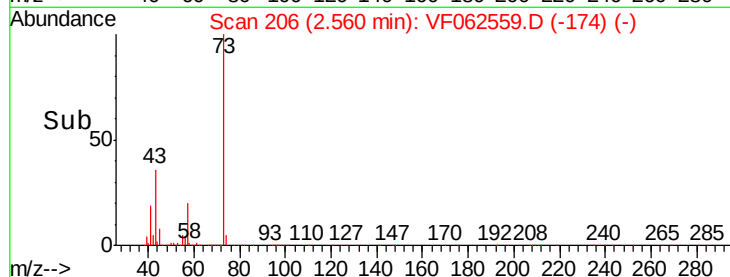
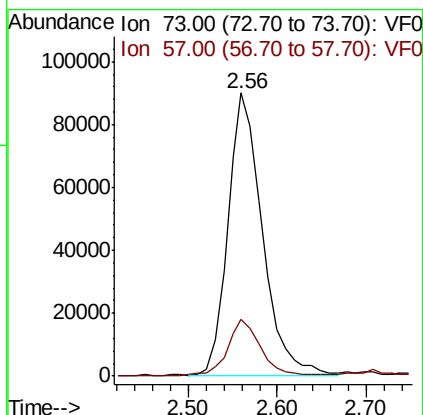
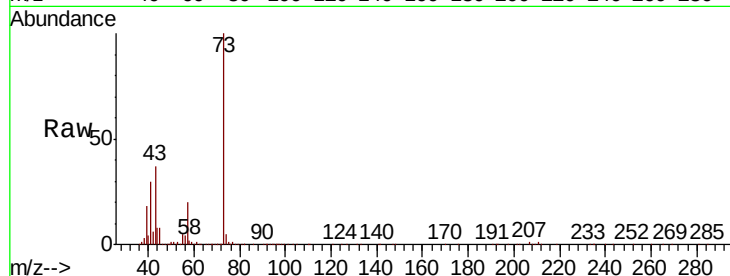


#19

Methyl tert-butyl Ether  
 Concen: 47.848 ug/l  
 RT: 2.56 min Scan# 206  
 Delta R.T. 0.01 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

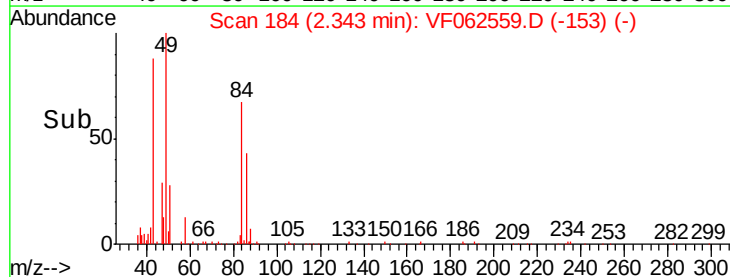
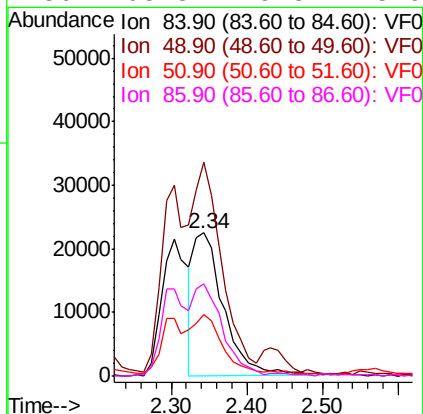
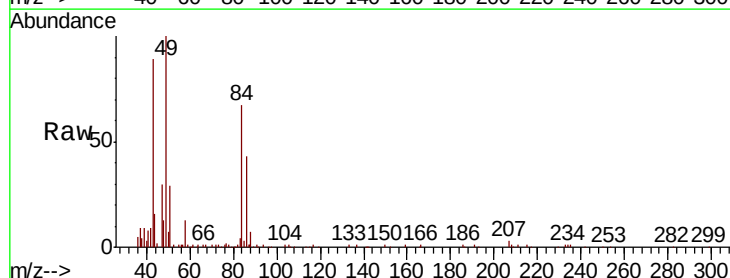
Tot Ion: 73 Resp: 241275  
 Ion Ratio Lower Upper  
 73 100  
 57 19.9 13.7 20.5

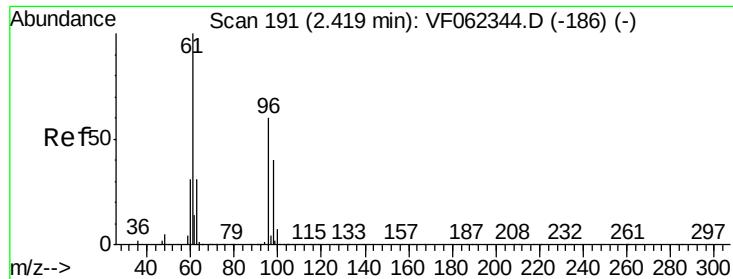


#20

Methylene Chloride  
 Concen: 27.756 ug/l  
 RT: 2.34 min Scan# 184  
 Delta R.T. 0.00 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

Tgt Ion: 84 Resp: 61168  
 Ion Ratio Lower Upper  
 84 100  
 49 148.4 117.5 176.3  
 51 42.4 37.0 55.4  
 86 63.8 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 47.348 ug/l

RT: 2.44 min Scan# 194

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

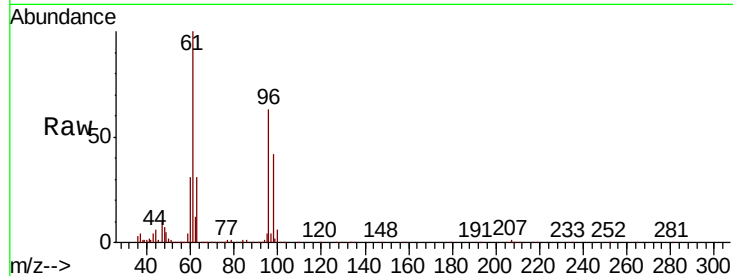
Tot Ion: 96 Resp: 110197

Ion Ratio Lower Upper

96 100

61 159.9 133.2 199.8

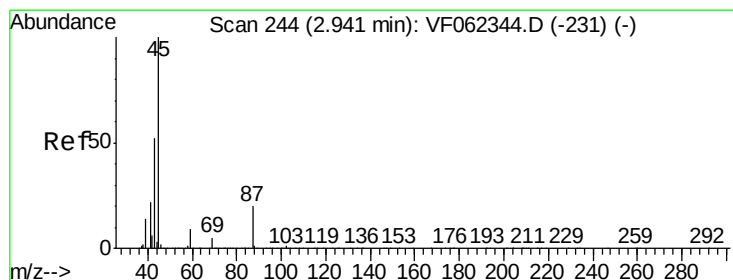
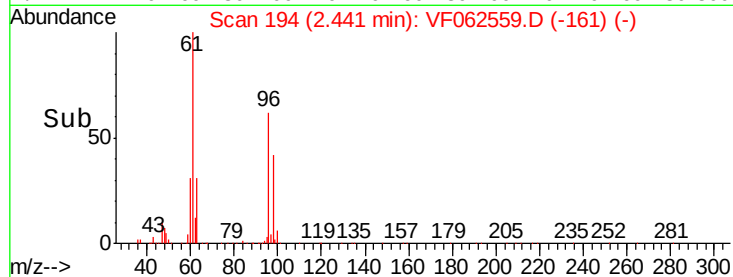
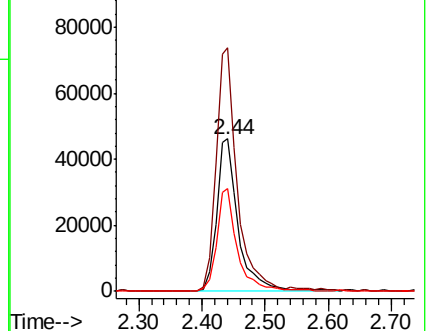
98 67.7 53.1 79.7



Abundance Ion 95.90 (95.60 to 96.60): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 97.90 (97.60 to 98.60): VF0



#22

Diisopropyl ether

Concen: 49.776 ug/l

RT: 2.95 min Scan# 246

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Tgt Ion: 45 Resp: 335704

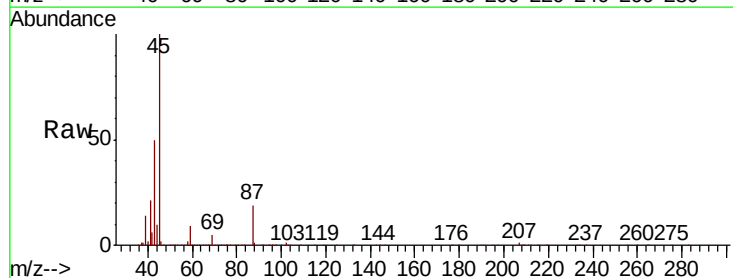
Ion Ratio Lower Upper

45 100

43 49.6 41.4 62.0

87 19.1 15.8 23.6

59 9.5 7.2 10.8

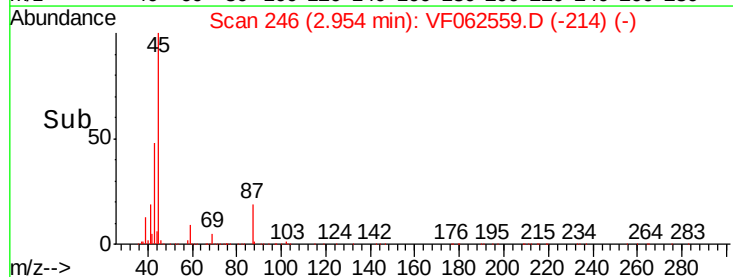
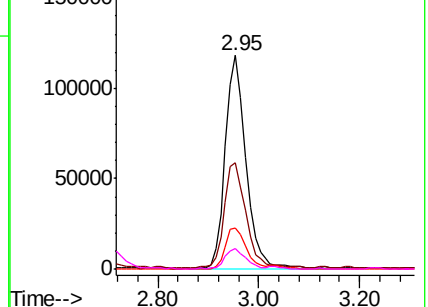


Abundance Ion 45.00 (44.70 to 45.70): VF0

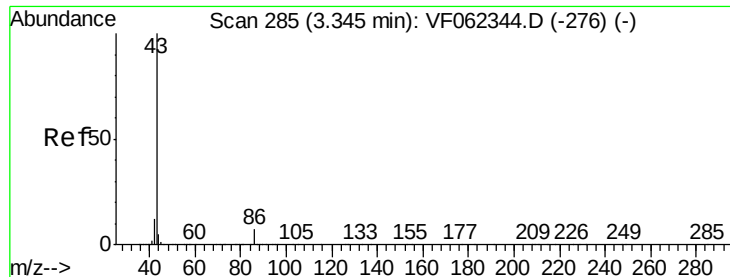
Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0







#23

Vinyl Acetate

Concen: 244.500 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

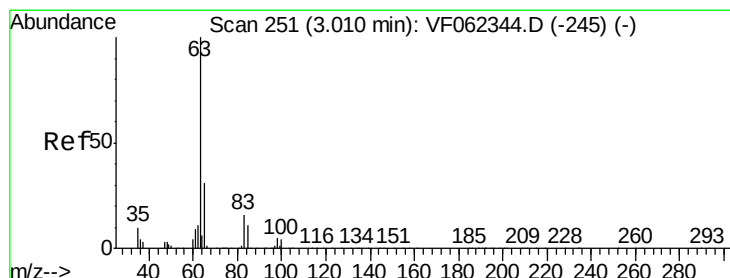
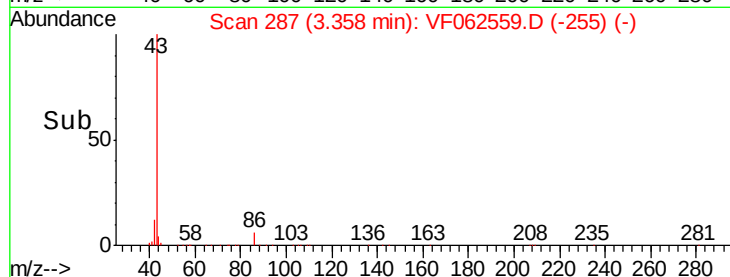
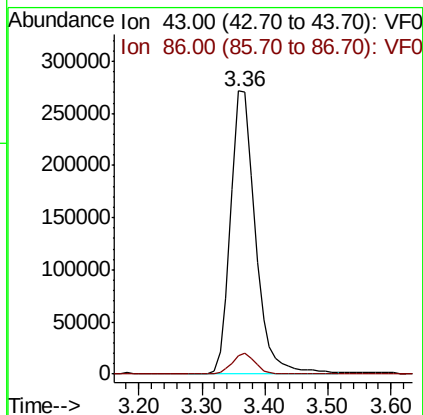
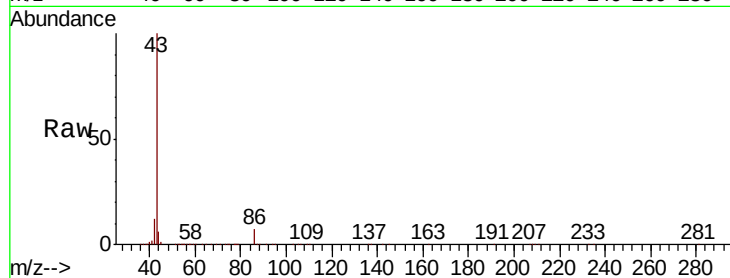
VSTDCCC050EC

Tot Ion: 43 Resp: 734929

Ion Ratio Lower Upper

43 100

86 6.5 5.7 8.5



#24

1,1-Dichloroethane

Concen: 52.872 ug/l

RT: 3.03 min Scan# 254

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

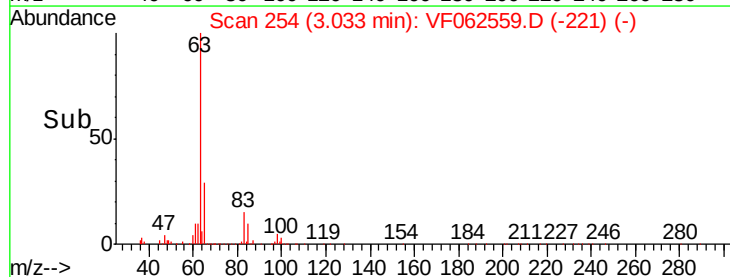
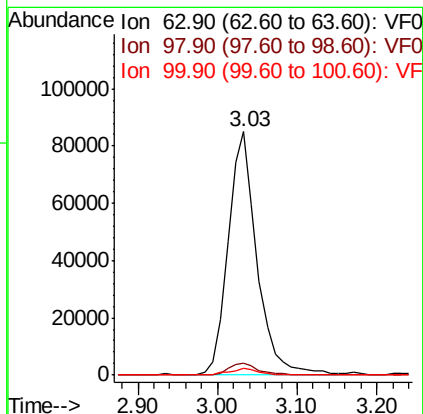
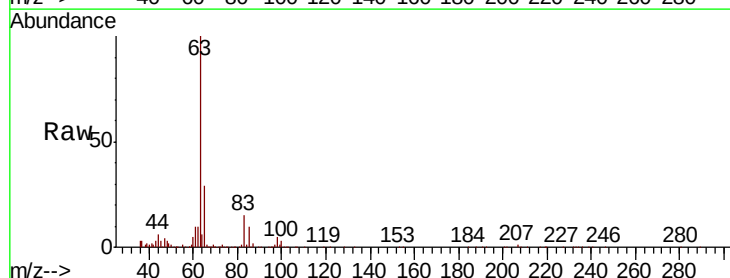
Tgt Ion: 63 Resp: 215513

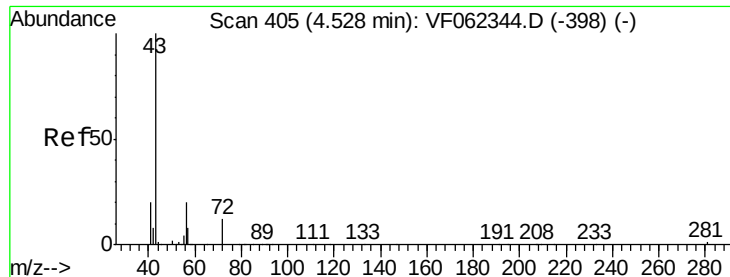
Ion Ratio Lower Upper

63 100

98 5.1 2.6 8.0

100 2.8 1.8 5.4

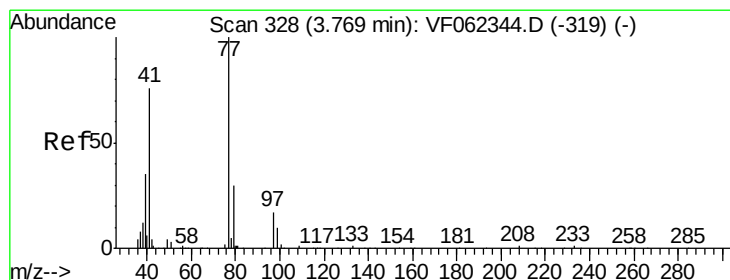
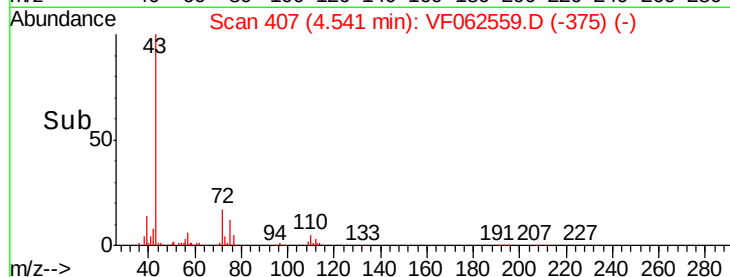
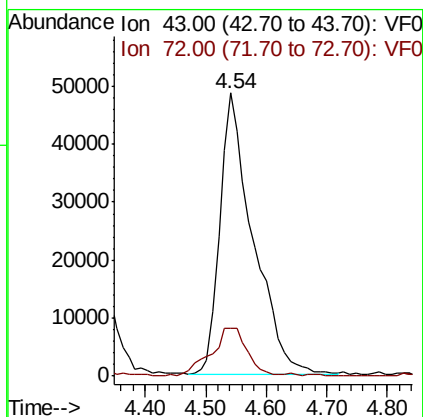
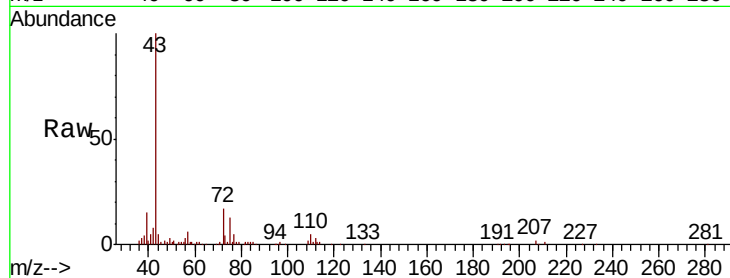




#25  
2-Butanone  
Concen: 238.922 ug/l  
RT: 4.54 min Scan# 407  
Delta R.T. 0.01 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

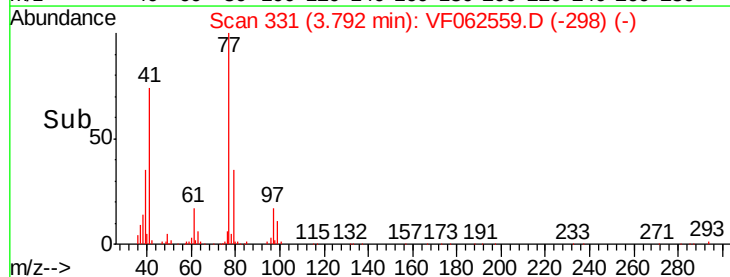
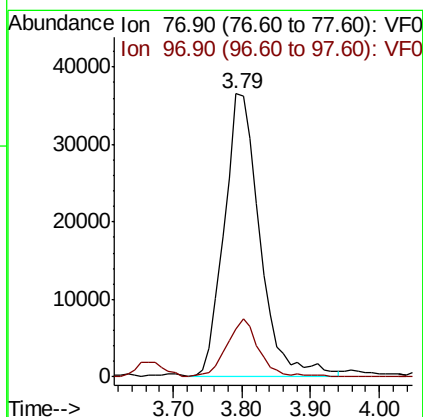
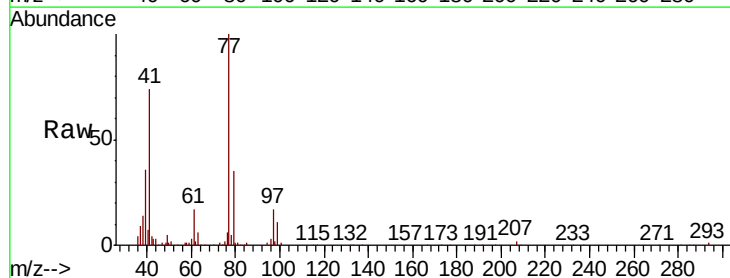
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

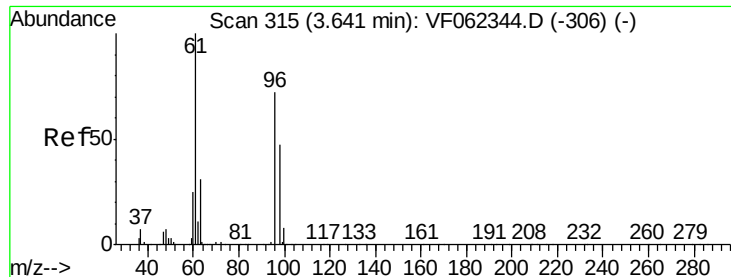
Tot Ion: 43 Resp: 182835  
Ion Ratio Lower Upper  
43 100  
72 17.0 14.2 21.4



#26  
2,2-Dichloropropane  
Concen: 57.985 ug/l  
RT: 3.79 min Scan# 331  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 77 Resp: 131990  
Ion Ratio Lower Upper  
77 100  
97 17.9 9.5 28.5



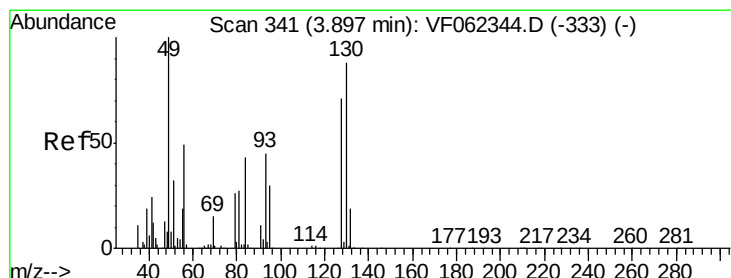
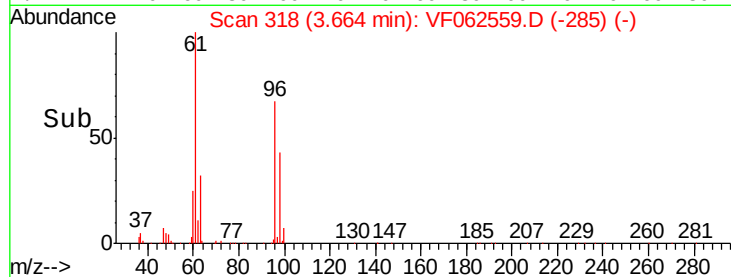
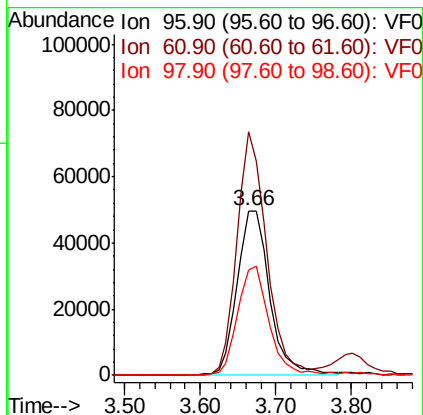
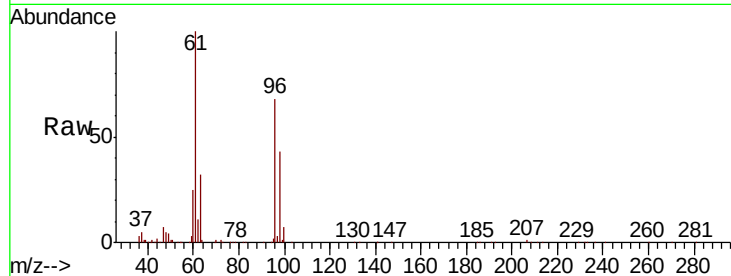


#27

cis-1,2-Dichloroethene  
Concen: 51.122 ug/l  
RT: 3.66 min Scan# 318  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

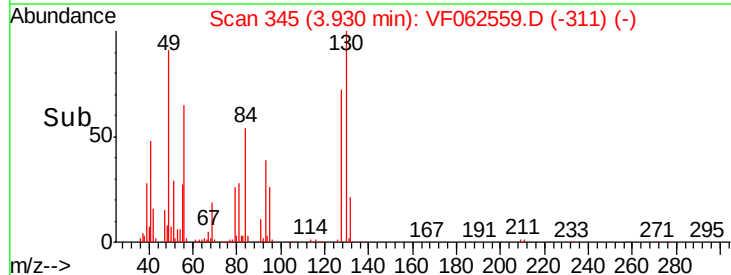
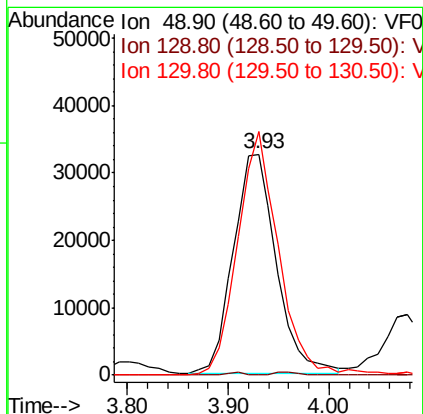
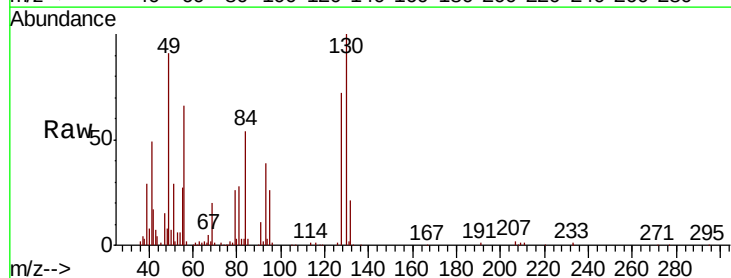
Tot Ion: 96 Resp: 148728  
Ion Ratio Lower Upper  
96 100  
61 133.7 0.0 263.0  
98 64.1 0.0 130.8

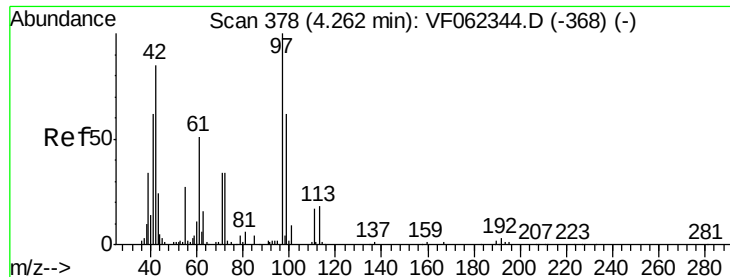


#28

Bromochloromethane  
Concen: 52.452 ug/l  
RT: 3.93 min Scan# 345  
Delta R.T. 0.03 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 49 Resp: 96963  
Ion Ratio Lower Upper  
49 100  
129 0.6 0.0 2.2  
130 105.6 79.4 119.0





#29

Tetrahydrofuran

Concen: 236.123 ug/l

RT: 4.28 min Scan# 381

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

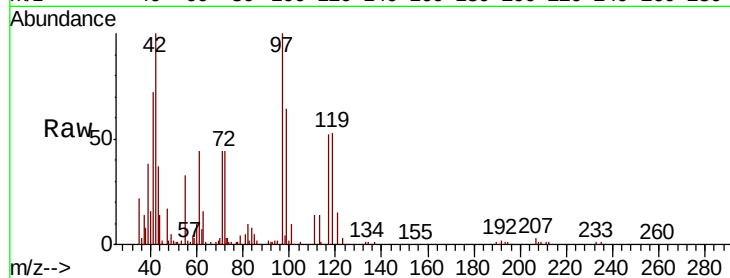
Tot Ion: 42 Resp: 83046

Ion Ratio Lower Upper

42 100

72 39.4 31.4 47.0

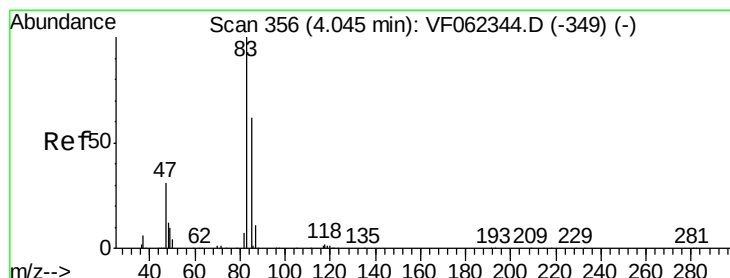
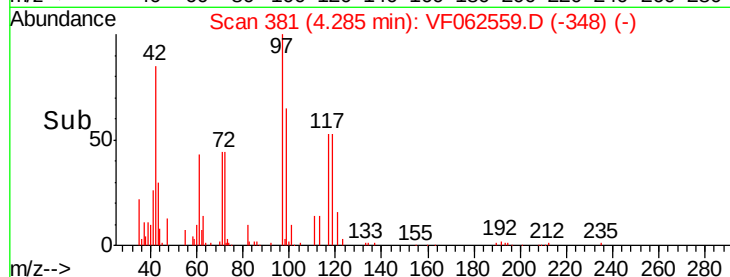
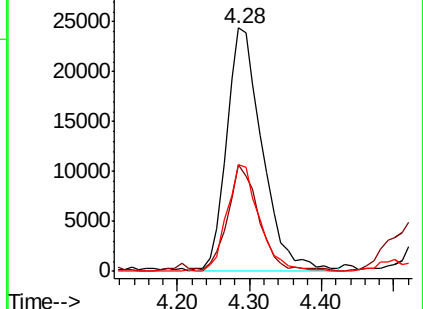
71 40.3 31.7 47.5



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 52.647 ug/l

RT: 4.08 min Scan# 360

Delta R.T. 0.03 min

Lab File: VF062559.D

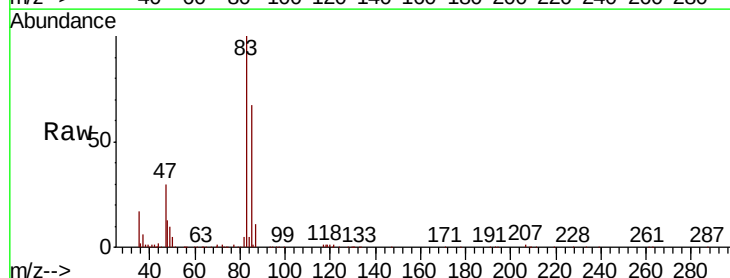
Acq: 13 May 2019 23:23

Tgt Ion: 83 Resp: 289916

Ion Ratio Lower Upper

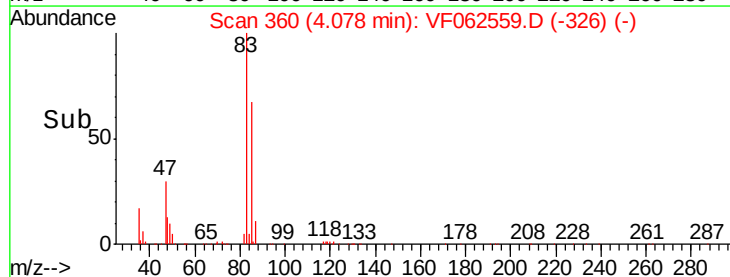
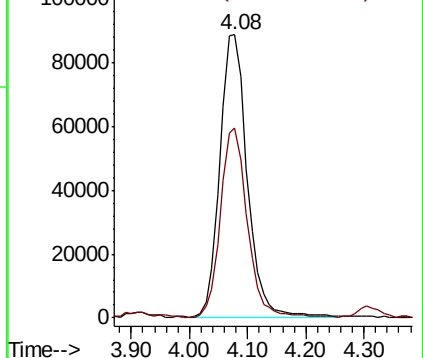
83 100

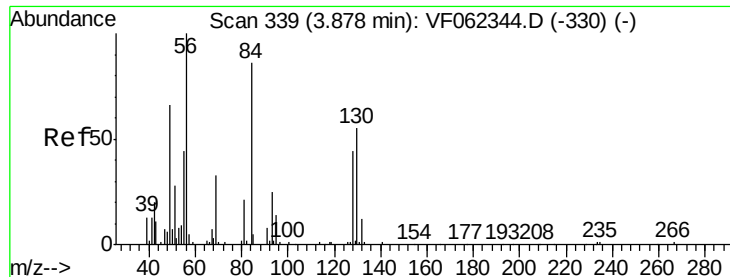
85 67.2 49.6 74.4



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

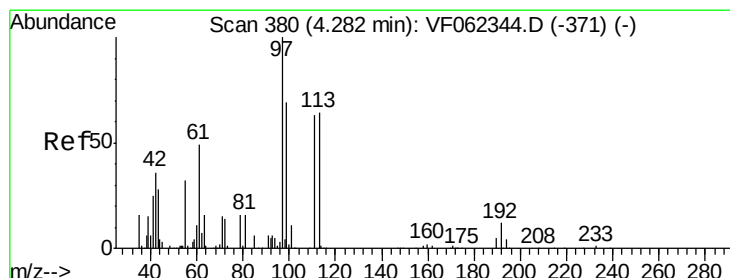
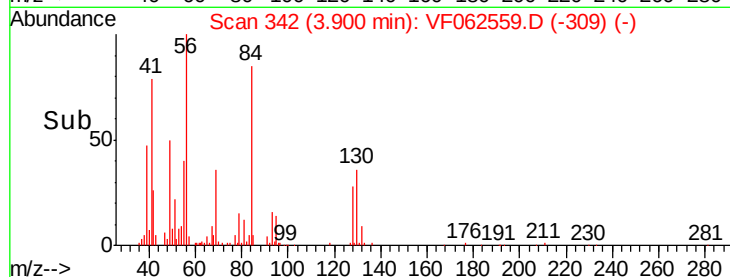
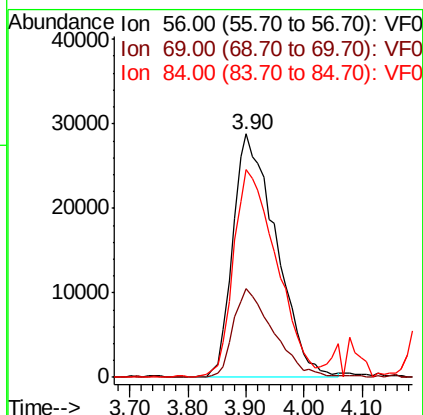
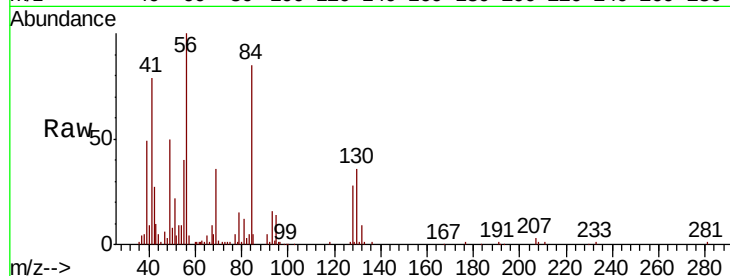




#31  
Cyclohexane  
Concen: 45.731 ug/l  
RT: 3.90 min Scan# 342  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

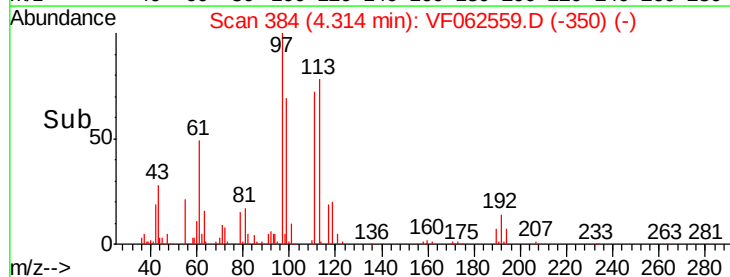
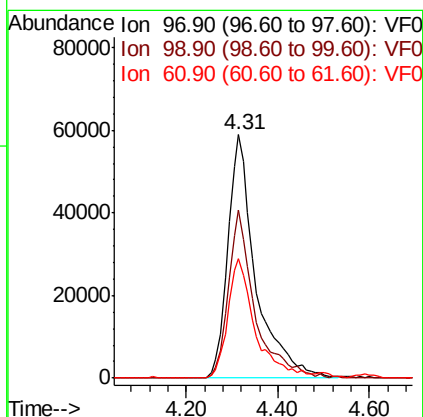
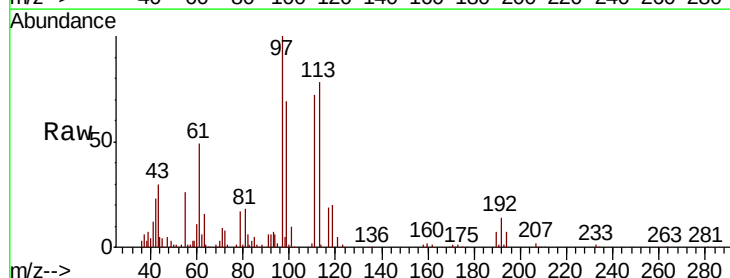
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

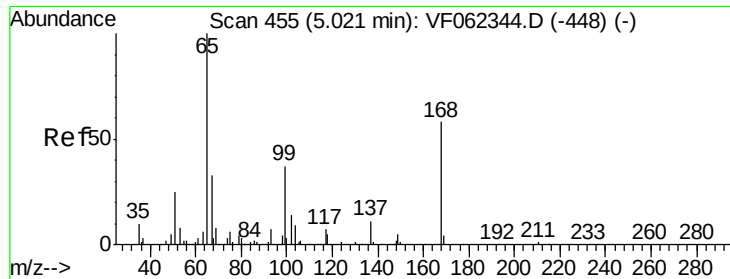
Tot Ion: 56 Resp: 148783  
Ion Ratio Lower Upper  
56 100  
69 36.5 26.4 39.6  
84 85.4 69.0 103.6



#32  
1,1,1-Trichloroethane  
Concen: 52.805 ug/l  
RT: 4.31 min Scan# 384  
Delta R.T. 0.03 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 97 Resp: 249219  
Ion Ratio Lower Upper  
97 100  
99 65.4 52.6 78.8  
61 48.4 39.4 59.0

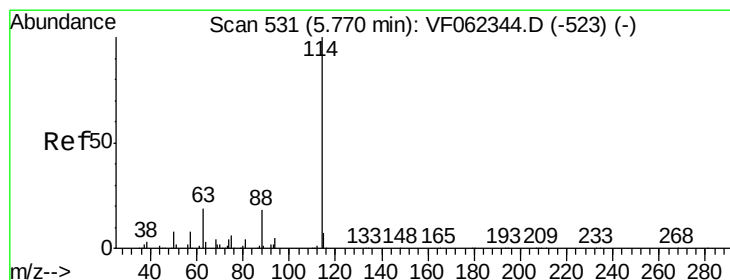
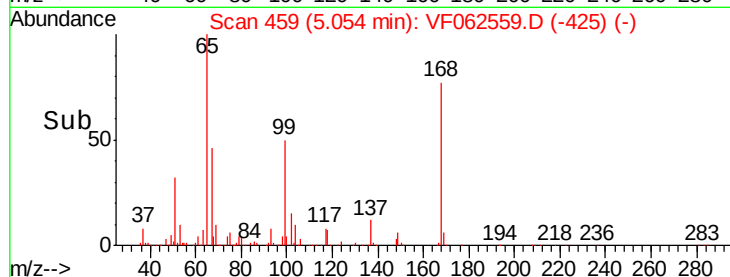
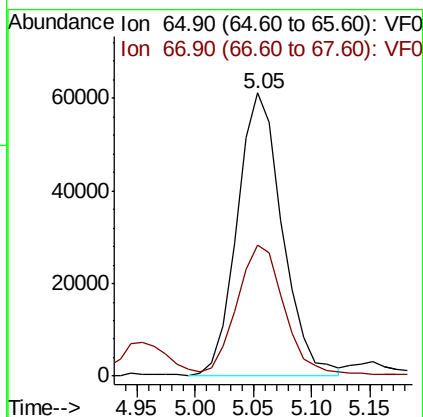
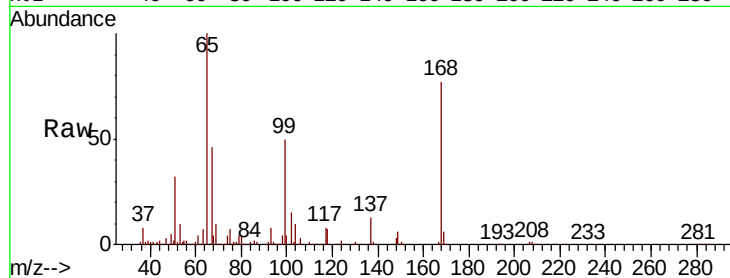




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.774 ug/l  
 RT: 5.05 min Scan# 459  
 Delta R.T. 0.03 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

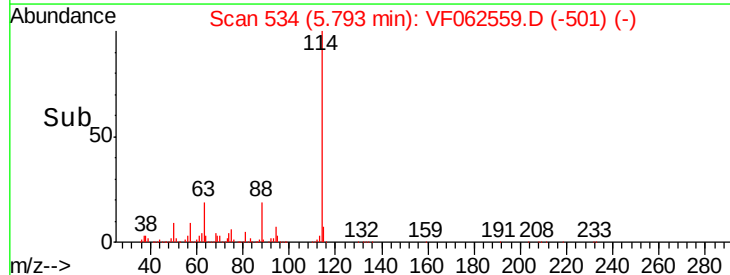
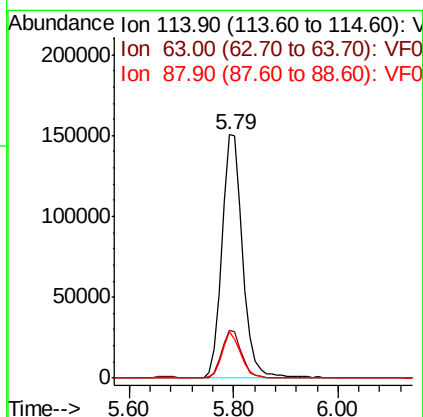
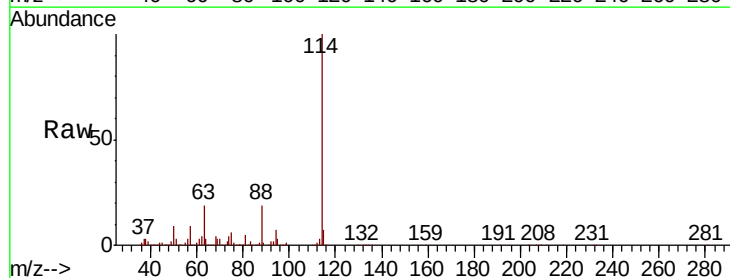
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

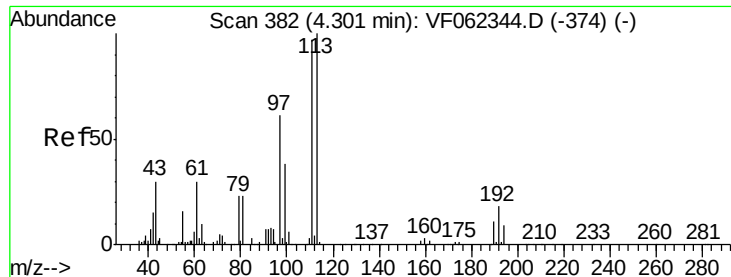
Tot Ion: 65 Resp: 164929  
 Ion Ratio Lower Upper  
 65 100  
 67 48.6 0.0 85.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.79 min Scan# 534  
 Delta R.T. 0.02 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

Tgt Ion: 114 Resp: 416661  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 37.4  
 88 19.2 0.0 36.4

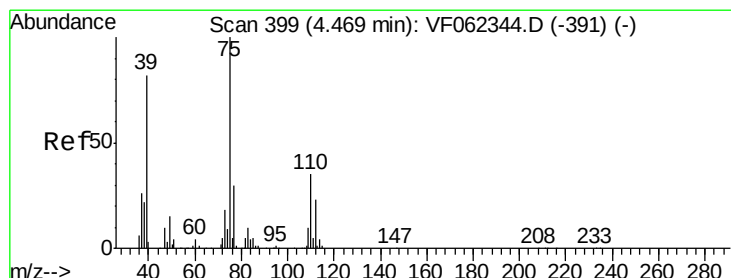
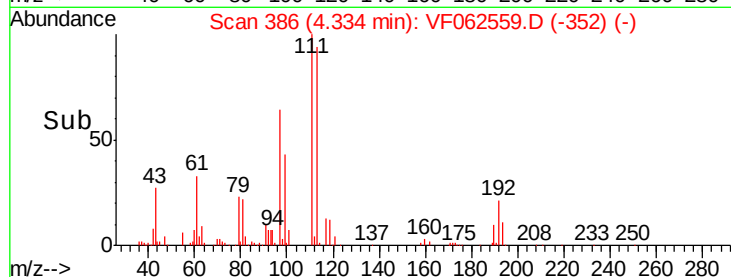
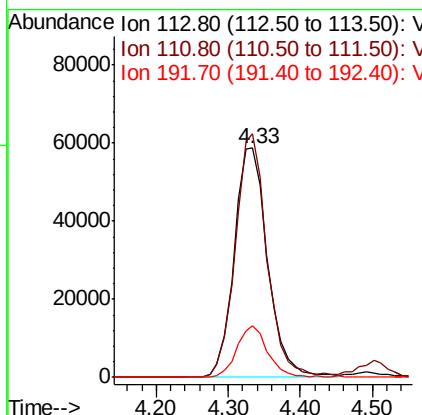
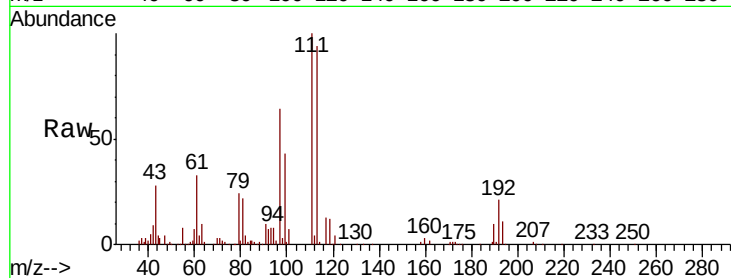




#35  
 Dibromofluoromethane  
 Concen: 57.487 ug/l  
 RT: 4.33 min Scan# 386  
 Delta R.T. 0.03 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

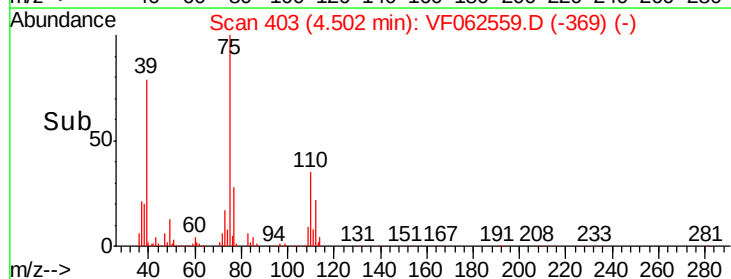
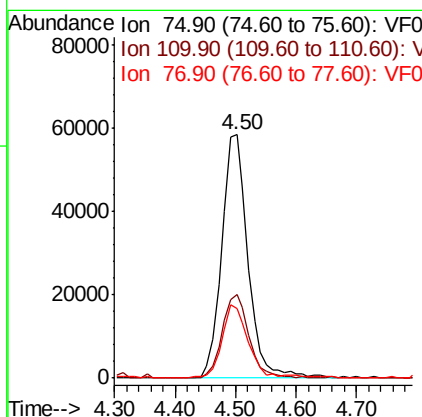
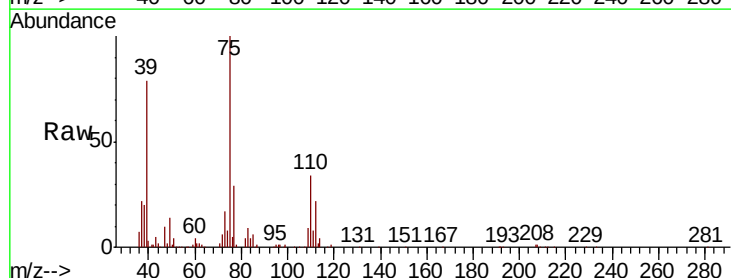
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

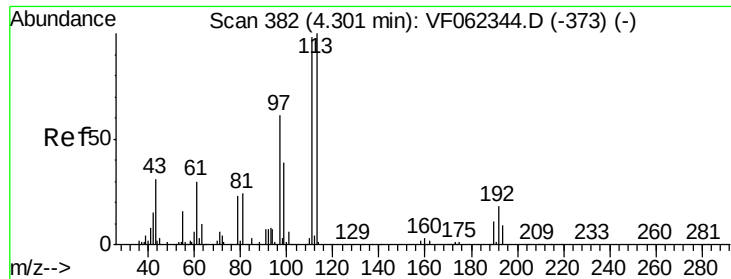
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.5 | 79.4  | 119.0 |
| 192     | 20.8  | 16.0  | 24.0  |



#36  
 1,1-Dichloropropene  
 Concen: 49.189 ug/l  
 RT: 4.50 min Scan# 403  
 Delta R.T. 0.03 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 35.2  | 17.2  | 51.5  |
| 77      | 29.9  | 25.2  | 37.8  |

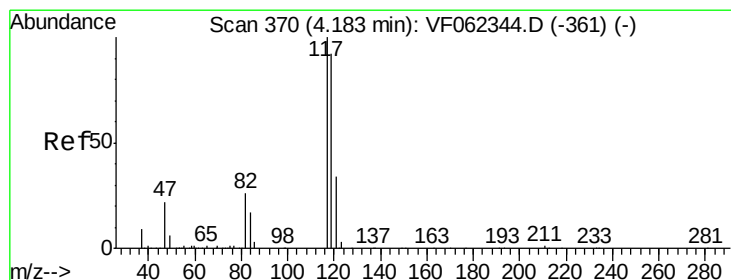
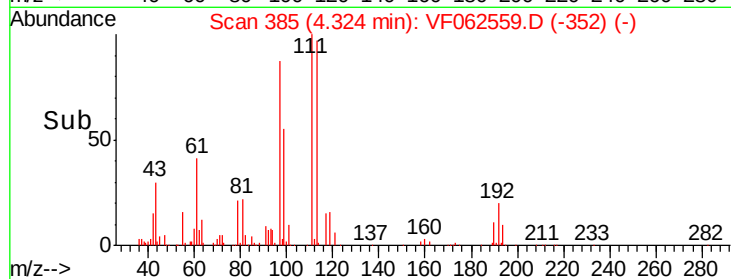
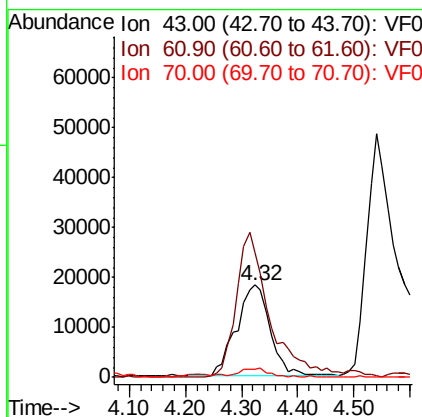
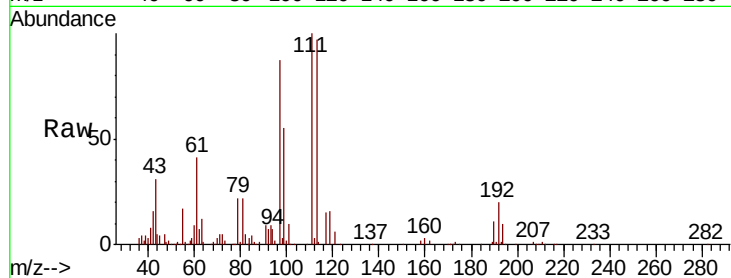




#37  
Ethyl Acetate  
Concen: 55.390 ug/l  
RT: 4.32 min Scan# 385  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

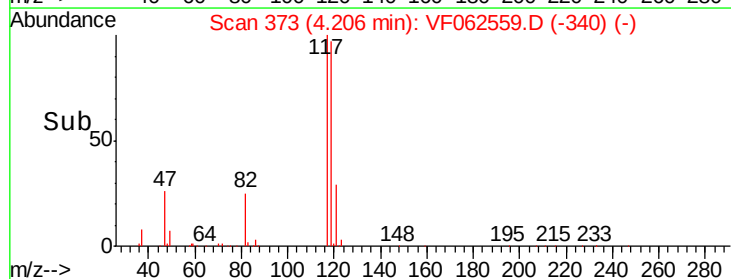
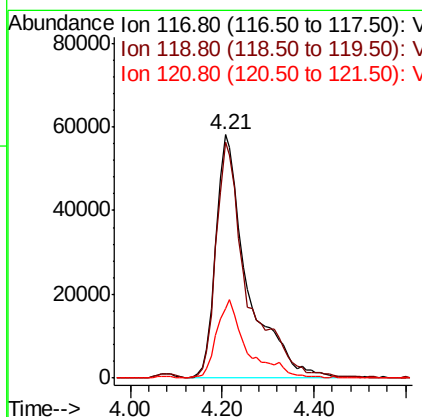
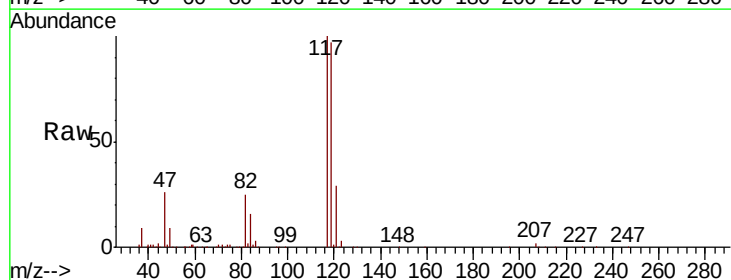
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

Tot Ion: 43 Resp: 76410  
Ion Ratio Lower Upper  
43 100  
61 158.0 0.0 0.0#  
70 9.4 8.2 12.2

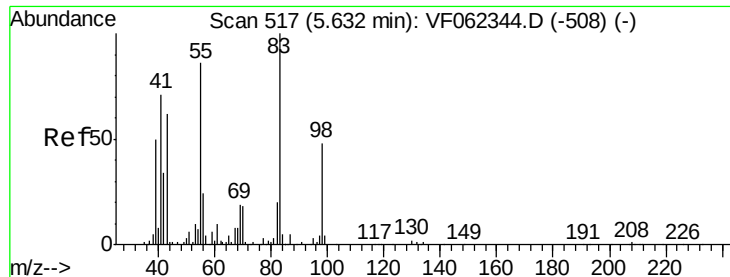


#38  
Carbon Tetrachloride  
Concen: 76.018 ug/l  
RT: 4.21 min Scan# 373  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 117 Resp: 276849  
Ion Ratio Lower Upper  
117 100  
119 97.1 73.4 110.2  
121 28.5 27.4 41.0



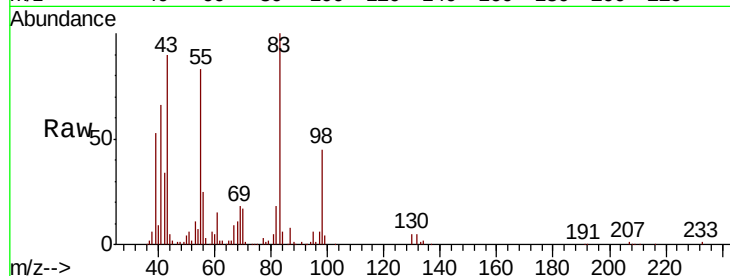




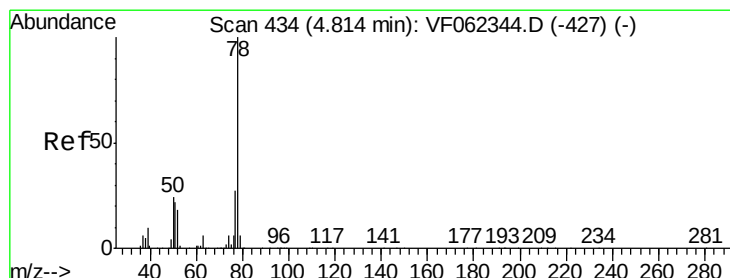
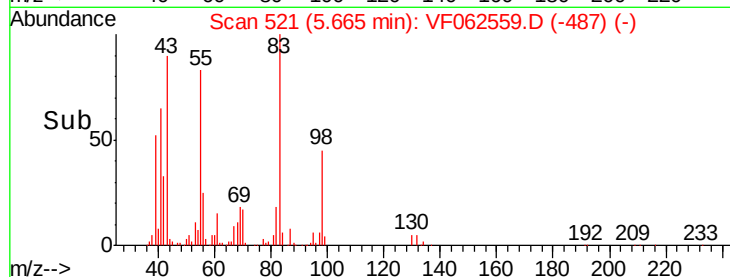
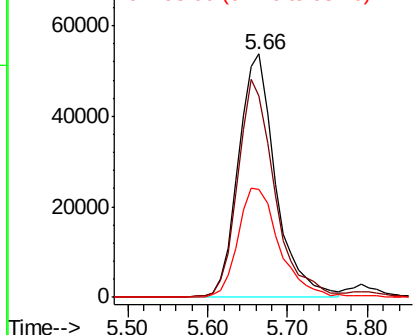
#39  
Methylvlcyclohexane  
Concen: 48.432 ug/l  
RT: 5.66 min Scan# 521  
Delta R.T. 0.03 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

Tot Ion: 83 Resp: 173855  
Ion Ratio Lower Upper  
83 100  
55 82.8 69.0 103.6  
98 44.5 38.6 58.0

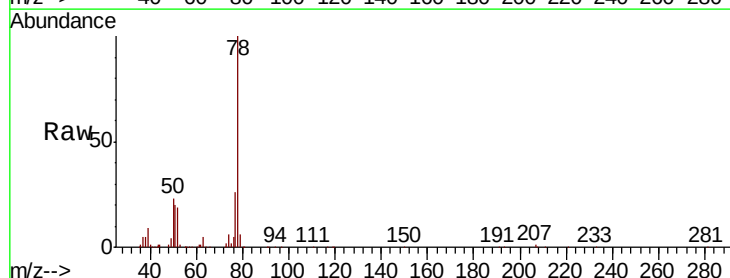


Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 55.00 (54.70 to 55.70): VF0  
Ion 98.00 (97.70 to 98.70): VF0

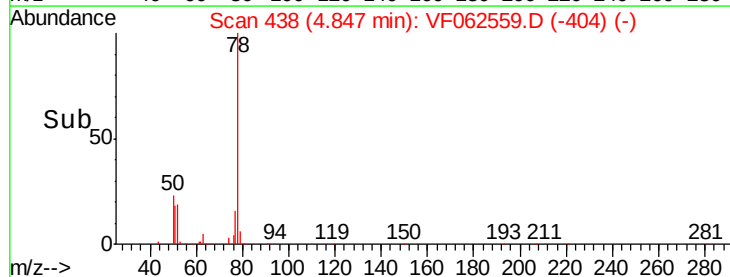
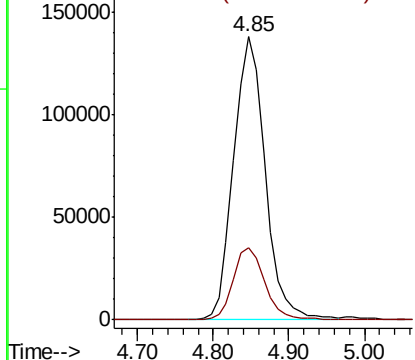


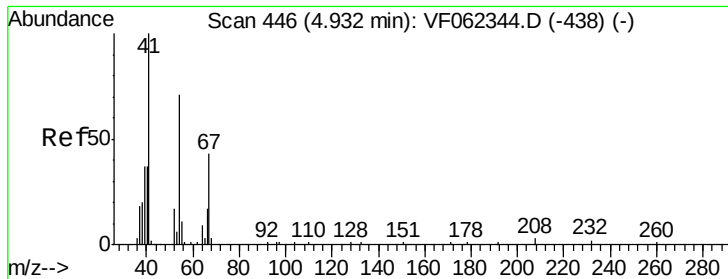
#40  
Benzene  
Concen: 50.802 ug/l  
RT: 4.85 min Scan# 438  
Delta R.T. 0.03 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 78 Resp: 400409  
Ion Ratio Lower Upper  
78 100  
77 25.6 21.6 32.4



Abundance Ion 78.00 (77.70 to 78.70): VF0  
Ion 77.00 (76.70 to 77.70): VF0





#41

Methacrylonitrile

Concen: 48.182 ug/l

RT: 4.95 min Scan# 449

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 41 Resp: 41352

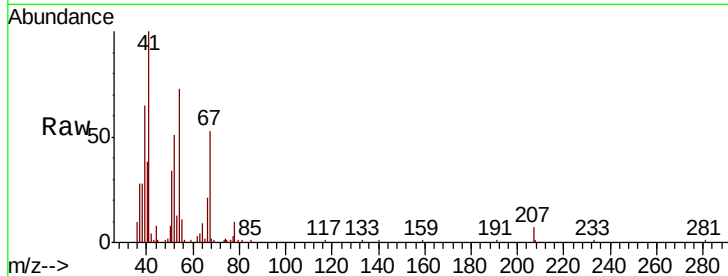
Ion Ratio Lower Upper

41 100

39 74.9 54.3 81.5

67 53.2 37.8 56.8

52 77.8 58.2 87.4

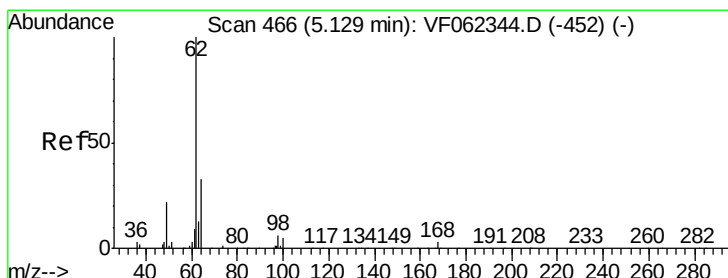
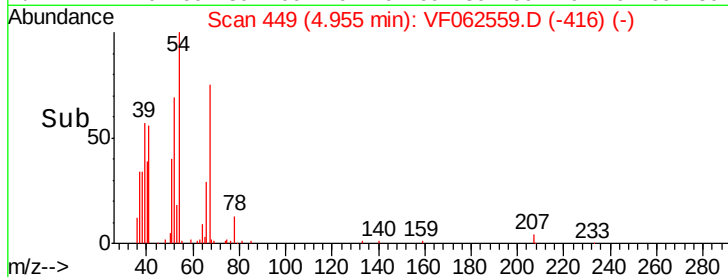
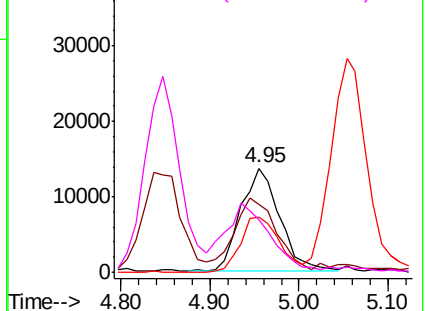


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 53.585 ug/l

RT: 5.15 min Scan# 469

Delta R.T. 0.02 min

Lab File: VF062559.D

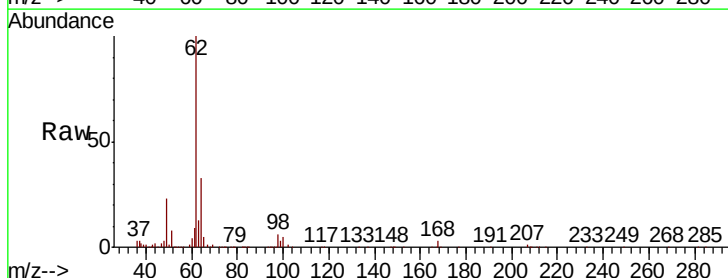
Acq: 13 May 2019 23:23

Tgt Ion: 62 Resp: 176641

Ion Ratio Lower Upper

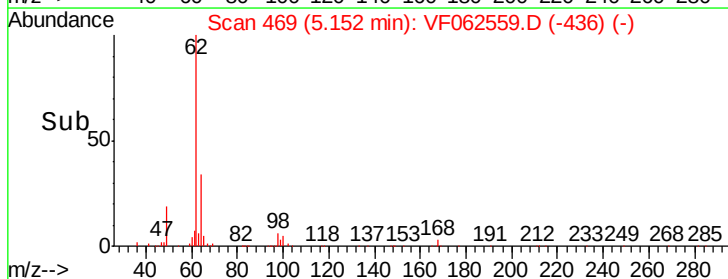
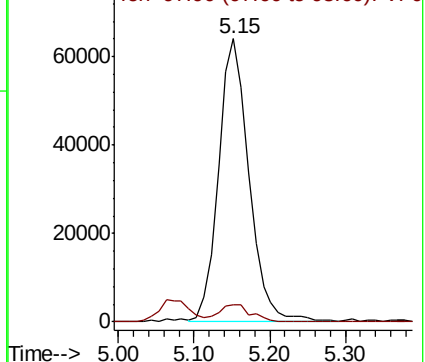
62 100

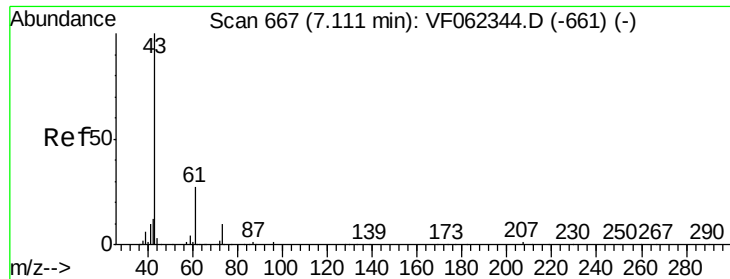
98 6.8 0.0 12.4



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0





#43

Isopropyl Acetate

Concen: 49.391 ug/l

RT: 7.13 min Scan# 670

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

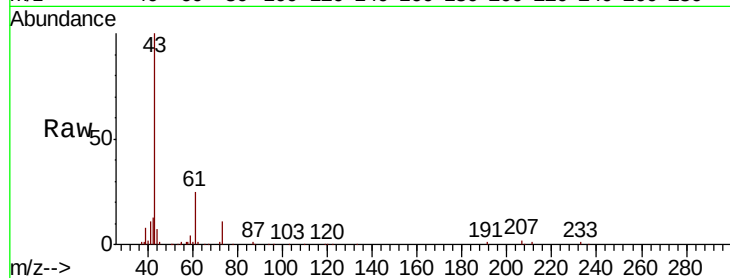
Tot Ion: 43 Resp: 80410

Ion Ratio Lower Upper

43 100

61 24.7 22.8 34.2

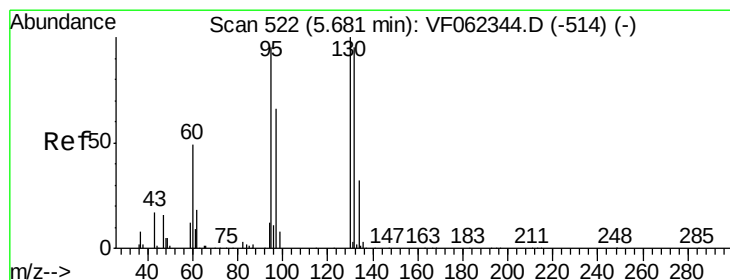
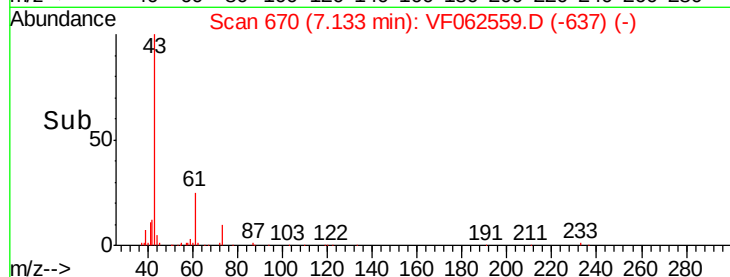
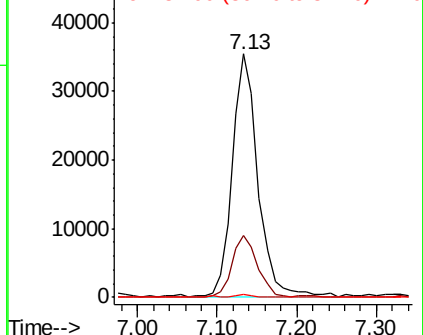
87 0.9 0.6 1.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 53.244 ug/l

RT: 5.70 min Scan# 525

Delta R.T. 0.02 min

Lab File: VF062559.D

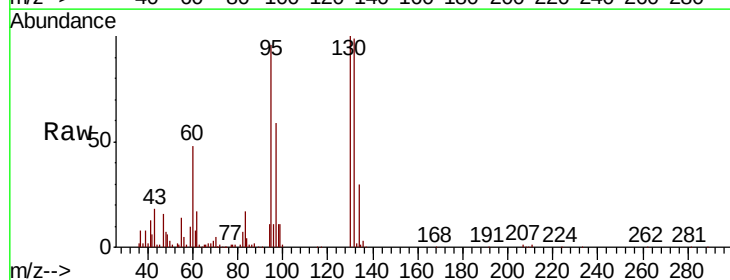
Acq: 13 May 2019 23:23

Tgt Ion:130 Resp: 154159

Ion Ratio Lower Upper

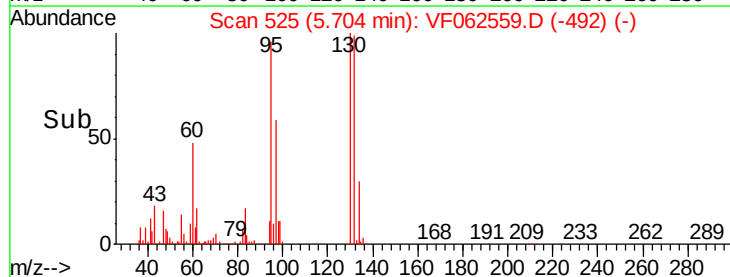
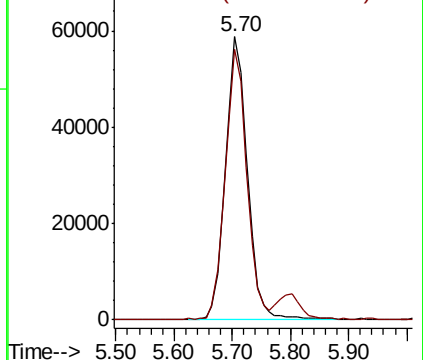
130 100

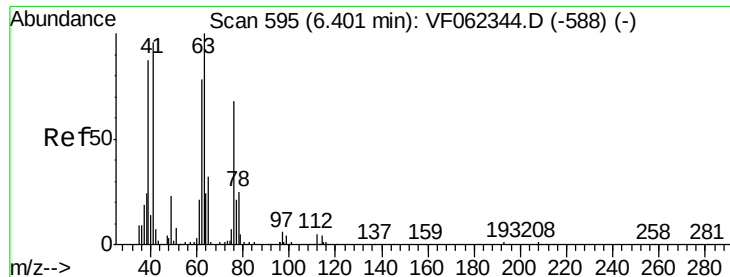
95 95.3 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VF0

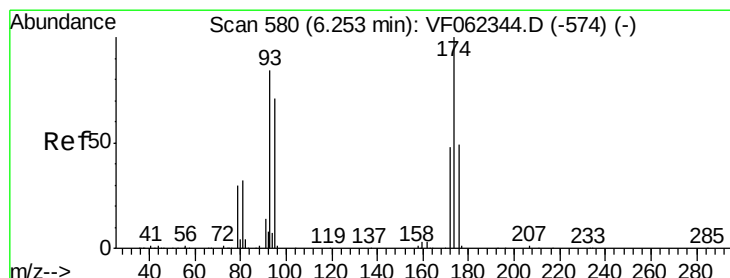
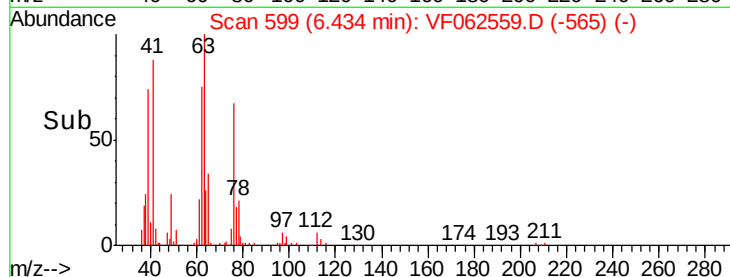
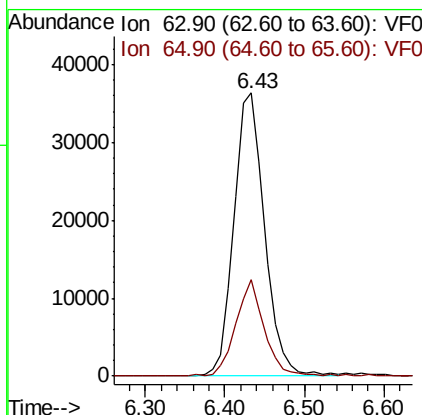
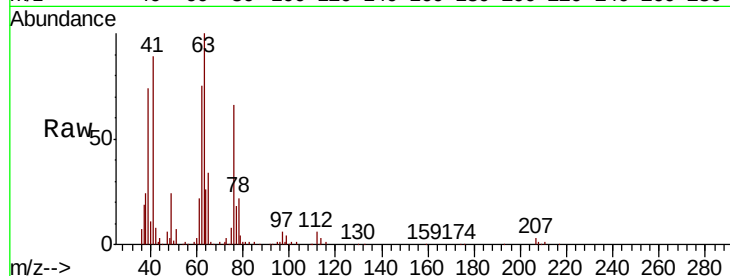




#45  
1,2-Dichloropropane  
Concen: 54.586 ug/l  
RT: 6.43 min Scan# 599  
Delta R.T. 0.03 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

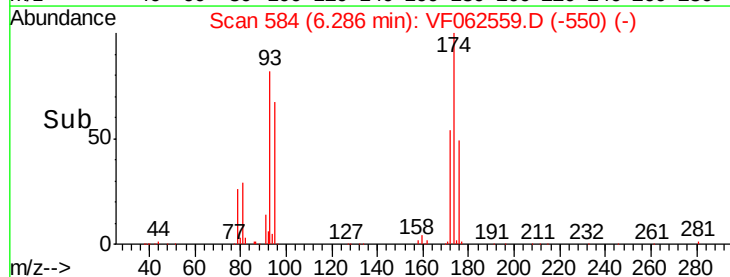
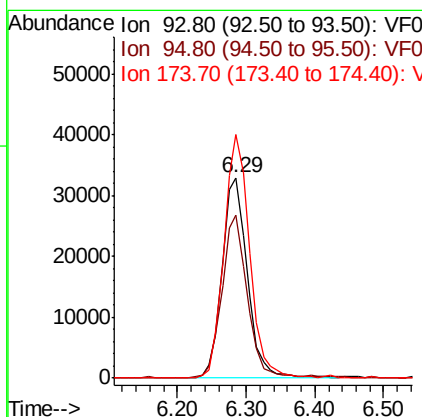
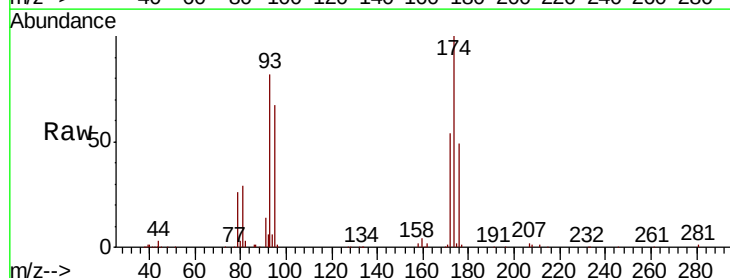
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

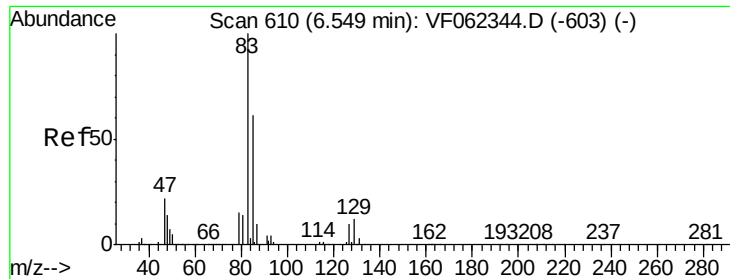
Tot Ion: 63 Resp: 97449  
Ion Ratio Lower Upper  
63 100  
65 34.0 25.6 38.4



#46  
Dibromomethane  
Concen: 56.807 ug/l  
RT: 6.29 min Scan# 584  
Delta R.T. 0.03 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 93 Resp: 84085  
Ion Ratio Lower Upper  
93 100  
95 80.7 68.4 102.6  
174 122.3 99.6 149.4





#47

Bromodichloromethane

Concen: 54.313 ug/l

RT: 6.58 min Scan# 614

Delta R.T. 0.03 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

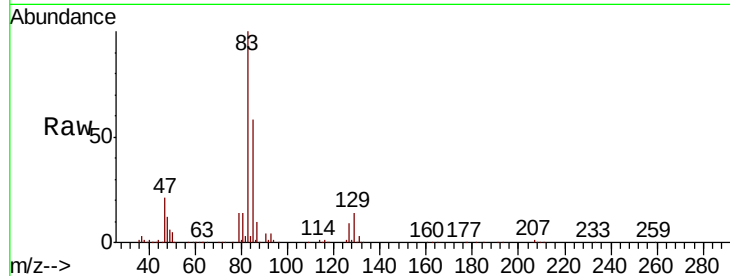
Tot Ion: 83 Resp: 200996

Ion Ratio Lower Upper

83 100

85 57.6 49.1 73.7

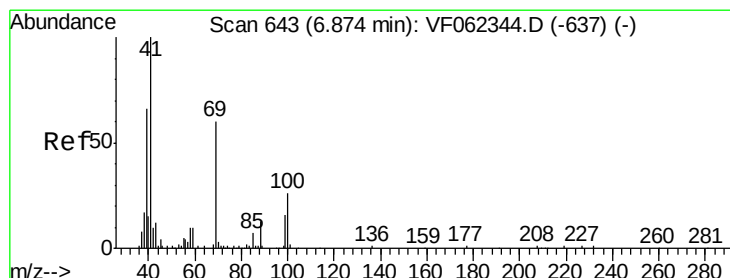
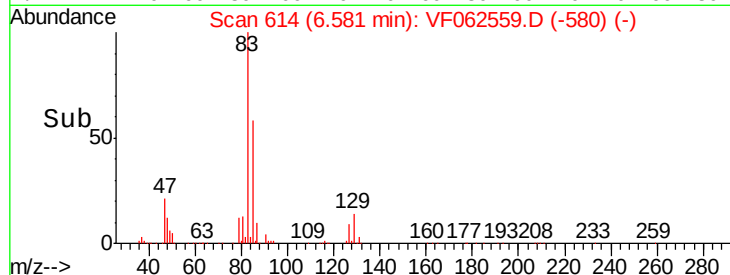
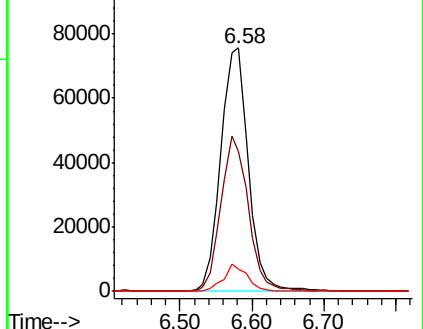
127 9.2 7.8 11.8



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 50.757 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

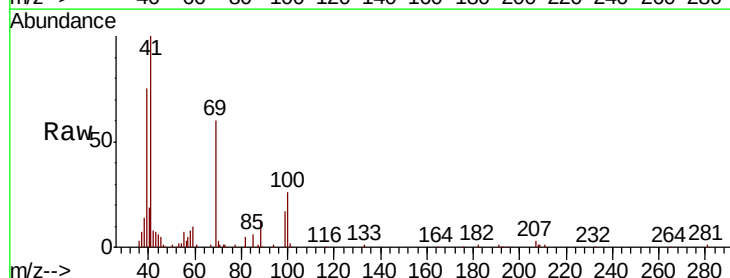
Tgt Ion: 41 Resp: 58396

Ion Ratio Lower Upper

41 100

69 63.4 48.6 72.8

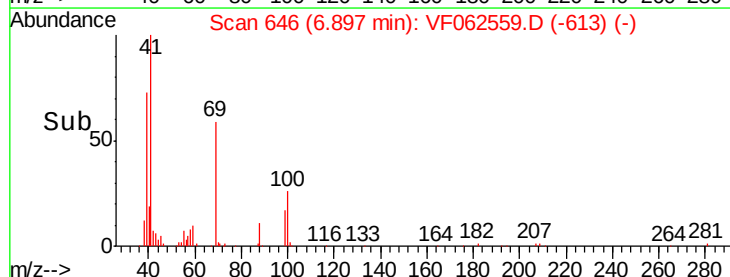
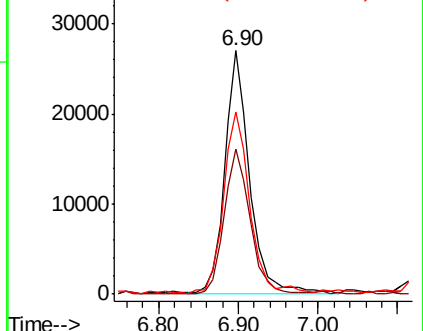
39 80.8 56.1 84.1

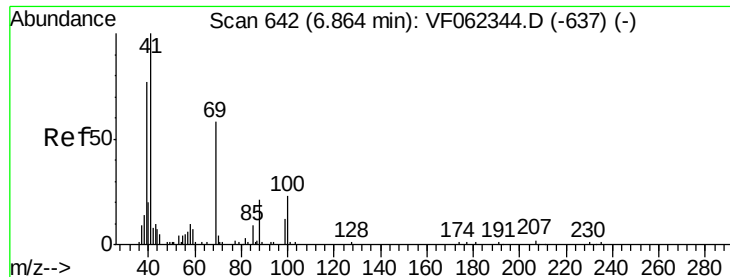


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

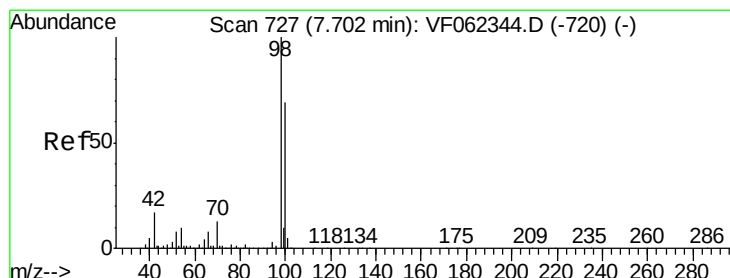
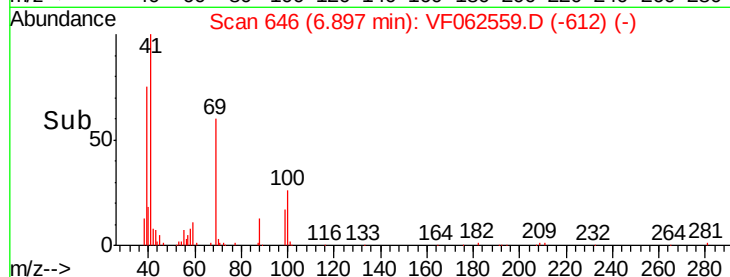
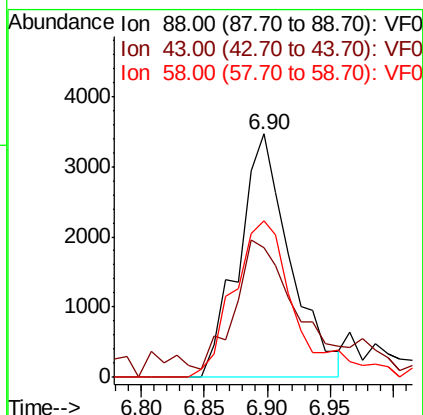
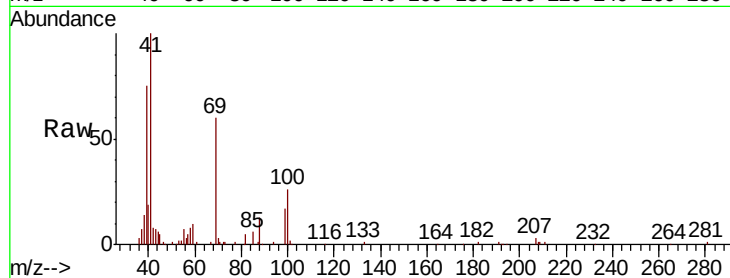




#49  
1,4-Dioxane  
Concen: 831.842 ug/l  
RT: 6.90 min Scan# 646  
Delta R.T. 0.03 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

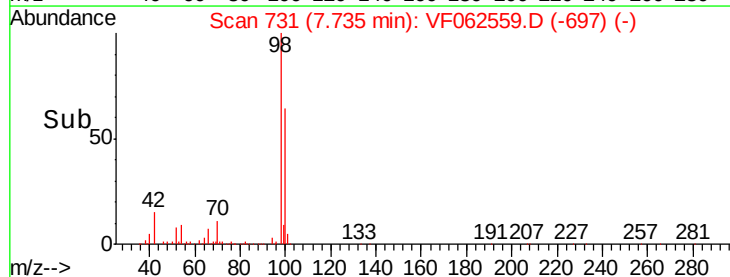
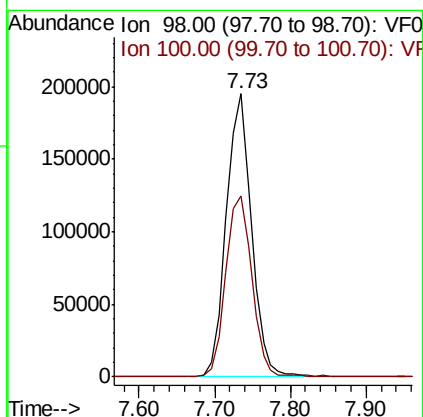
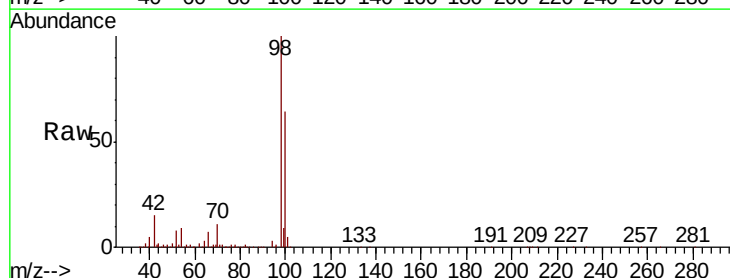
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

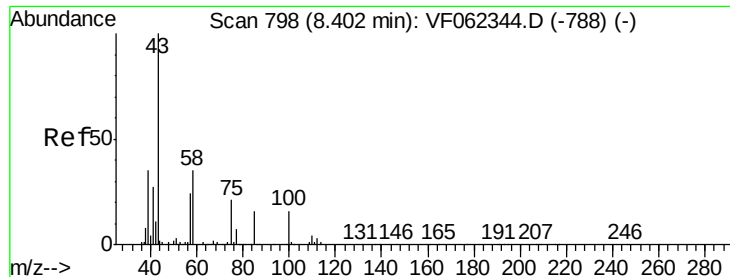
Tot Ion: 88 Resp: 9869  
Ion Ratio Lower Upper  
88 100  
43 61.0 55.6 83.4  
58 77.0 52.8 79.2



#50  
Toluene-d8  
Concen: 56.077 ug/l  
RT: 7.73 min Scan# 731  
Delta R.T. 0.03 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 98 Resp: 450597  
Ion Ratio Lower Upper  
98 100  
100 66.5 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 273.232 ug/l

RT: 8.42 min Scan# 801

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

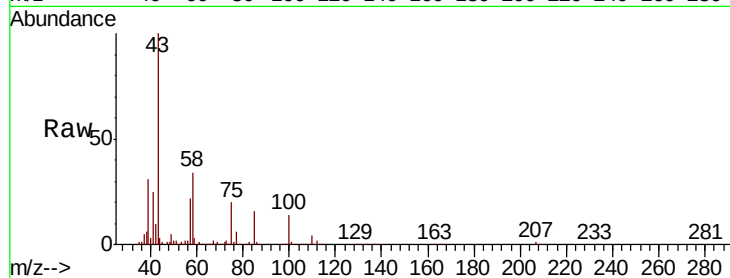
VSTDCCC050EC

Tot Ion: 43 Resp: 337067

Ion Ratio Lower Upper

43 100

58 34.3 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

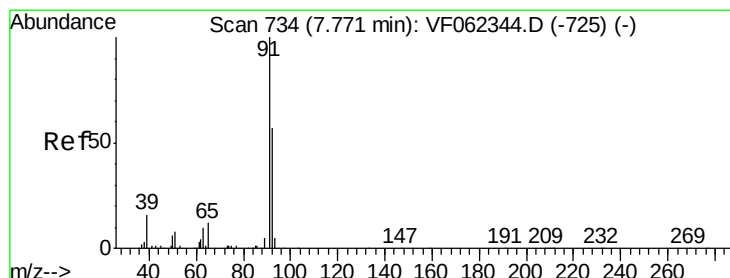
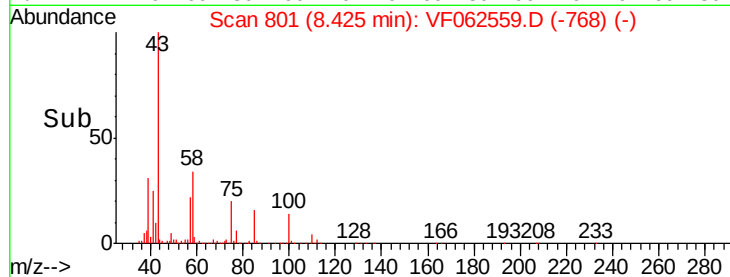
100000

50000

0

8.30 8.40 8.50 8.60

Time-->



#52

Toluene

Concen: 53.143 ug/l

RT: 7.80 min Scan# 738

Delta R.T. 0.03 min

Lab File: VF062559.D

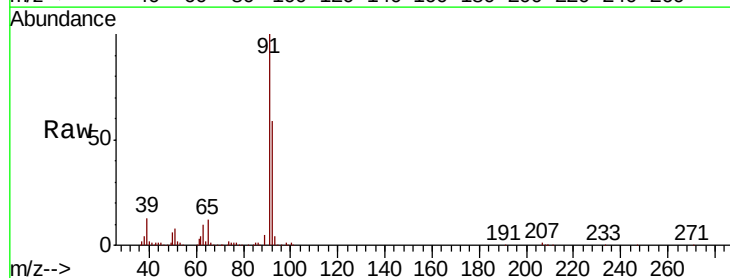
Acq: 13 May 2019 23:23

Tgt Ion: 92 Resp: 258399

Ion Ratio Lower Upper

92 100

91 169.1 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

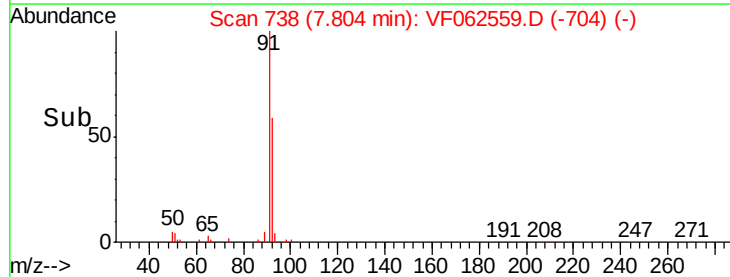
100000

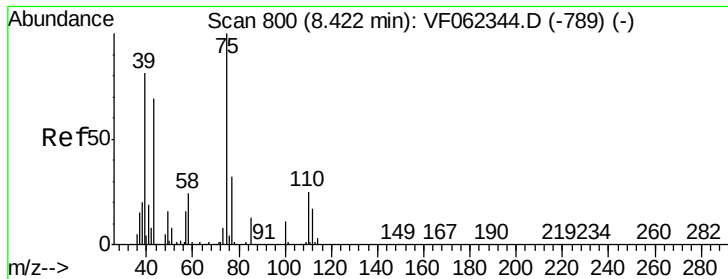
50000

0

7.70 7.80 7.90

Time-->





#53

t-1,3-Dichloropropene

Concen: 52.524 ug/l

RT: 8.44 min Scan# 803

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

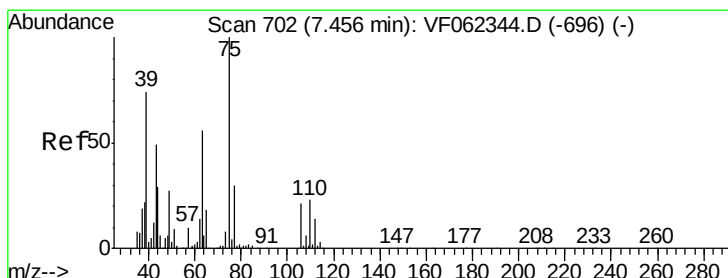
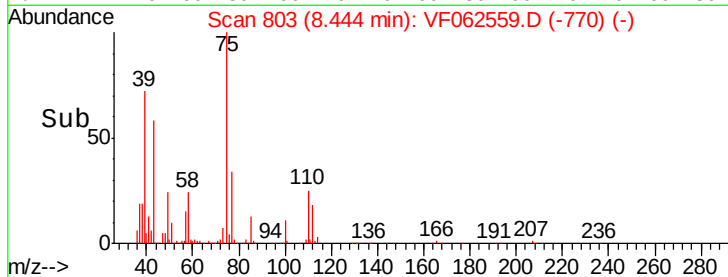
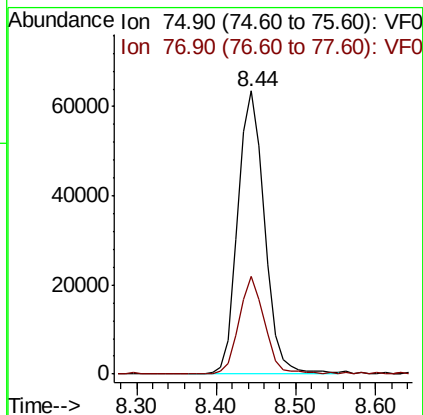
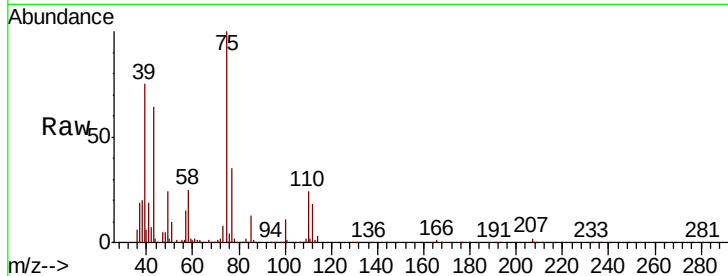
VSTDCCC050EC

Tot Ion: 75 Resp: 147012

Ion Ratio Lower Upper

75 100

77 34.4 25.4 38.0



#54

cis-1,3-Dichloropropene

Concen: 53.356 ug/l

RT: 7.48 min Scan# 705

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

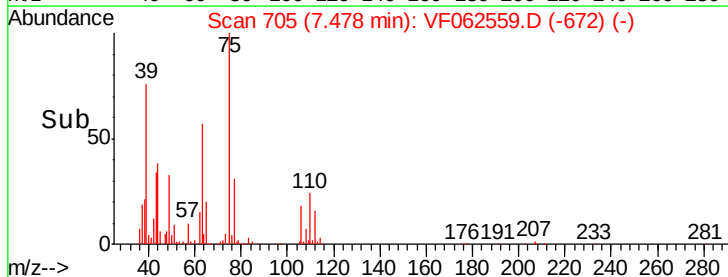
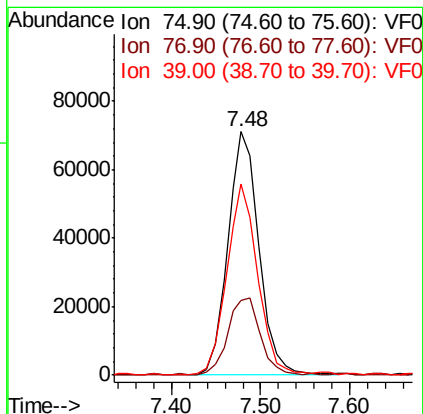
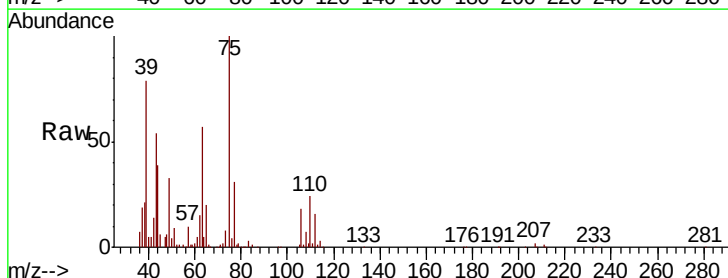
Tgt Ion: 75 Resp: 173808

Ion Ratio Lower Upper

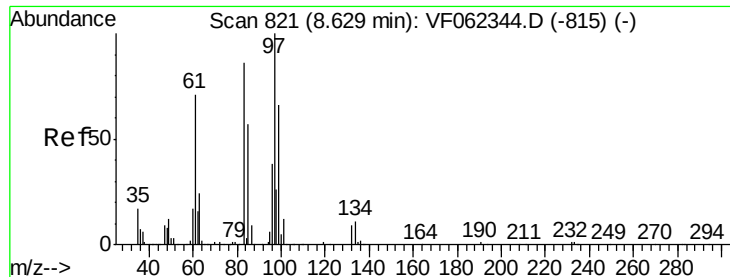
75 100

77 30.5 24.0 36.0

39 78.2 58.7 88.1







#55

1,1,2-Trichloroethane

Concen: 59.567 ug/l

RT: 8.65 min Scan# 824

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 97 Resp: 91945

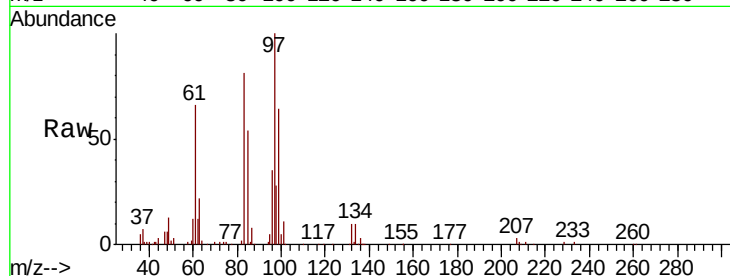
Ion Ratio Lower Upper

97 100

83 80.7 68.5 102.7

85 53.6 45.4 68.2

99 63.6 52.7 79.1

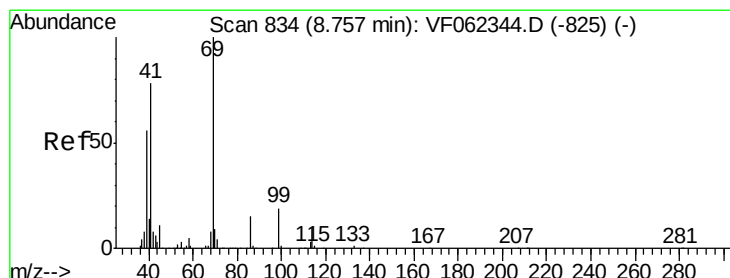
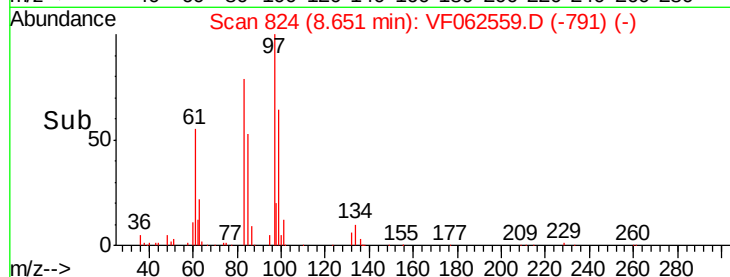
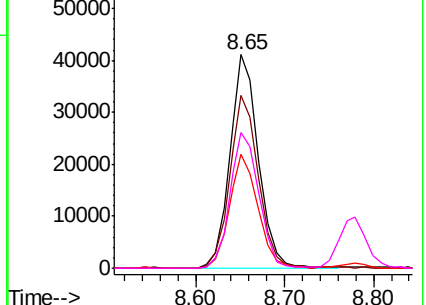


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#56

Ethyl methacrylate

Concen: 49.611 ug/l

RT: 8.78 min Scan# 837

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

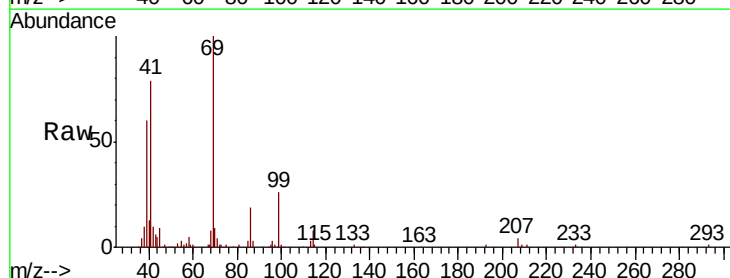
Tgt Ion: 69 Resp: 80835

Ion Ratio Lower Upper

69 100

41 83.1 66.3 99.5

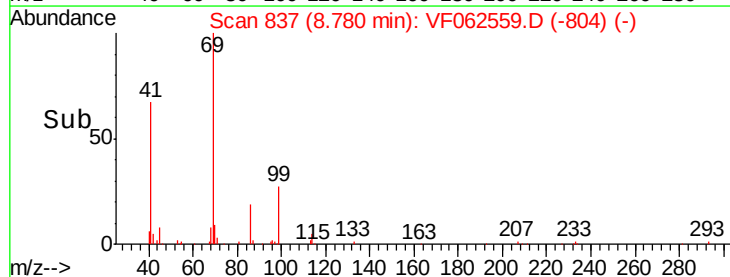
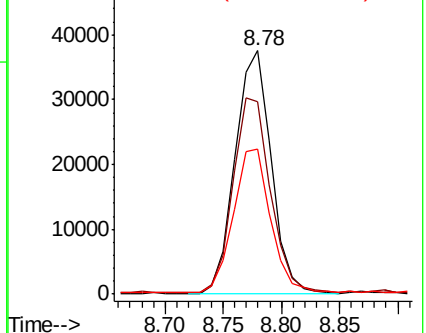
39 61.0 50.1 75.1

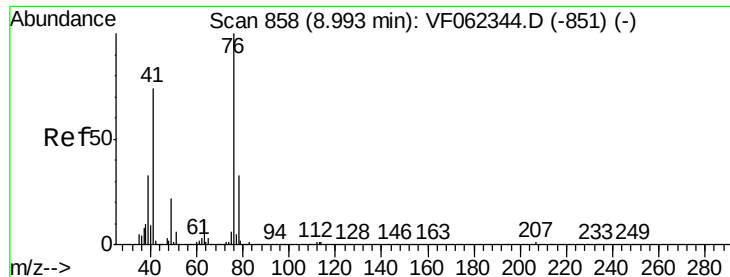


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 59.294 ug/l

RT: 9.02 min Scan# 861

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

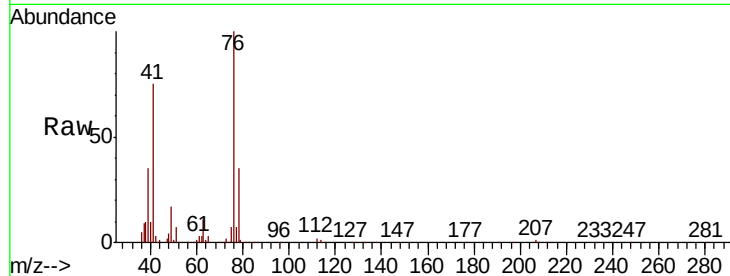
VSTDCCC050EC

Tot Ion: 76 Resp: 138247

Ion Ratio Lower Upper

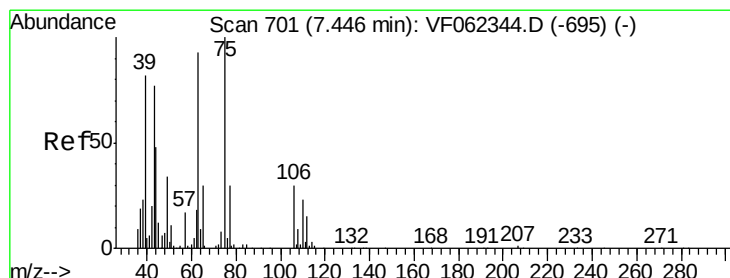
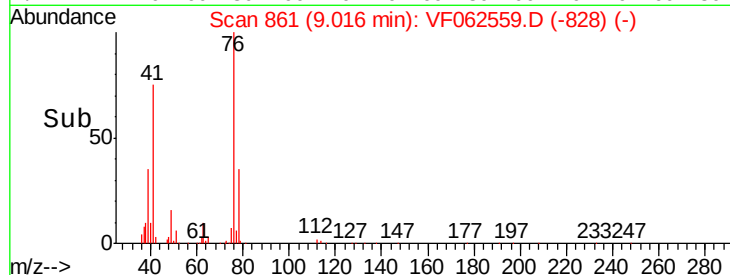
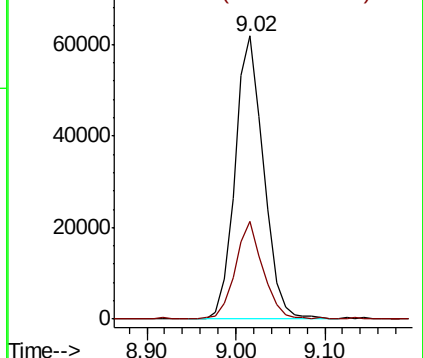
76 100

78 33.1 26.4 39.6



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 241.449 ug/l

RT: 7.47 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF062559.D

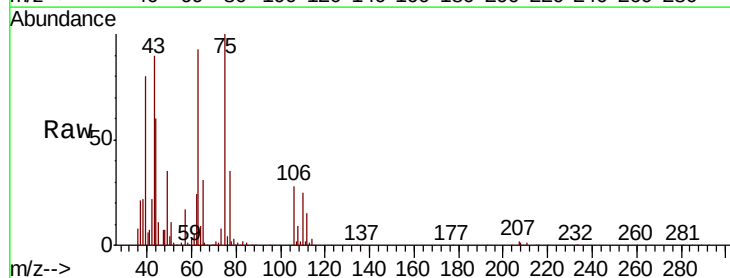
Acq: 13 May 2019 23:23

Tgt Ion: 63 Resp: 118277

Ion Ratio Lower Upper

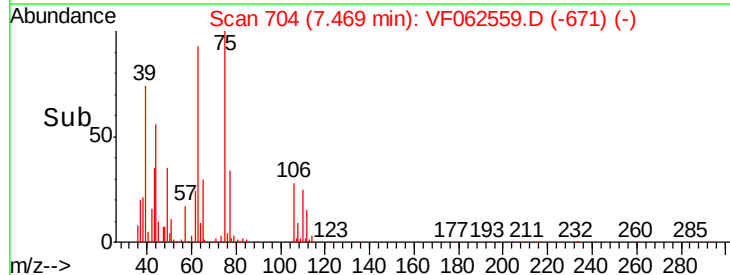
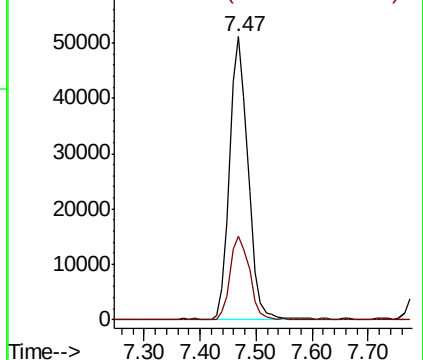
63 100

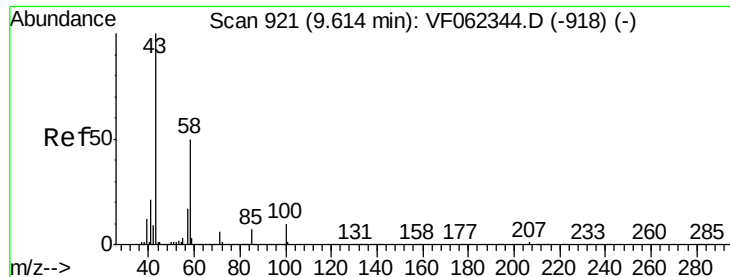
106 30.8 25.8 38.8



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

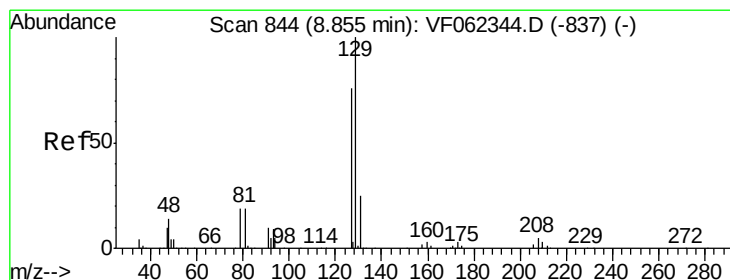
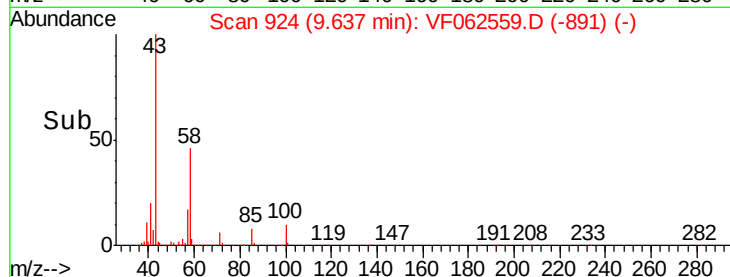
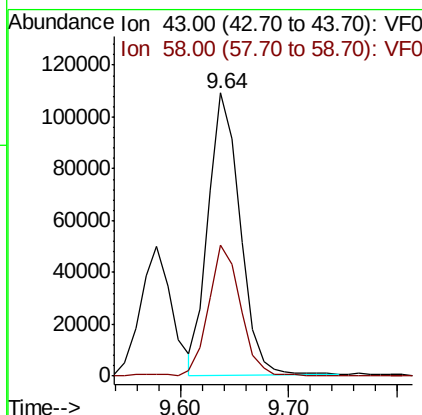
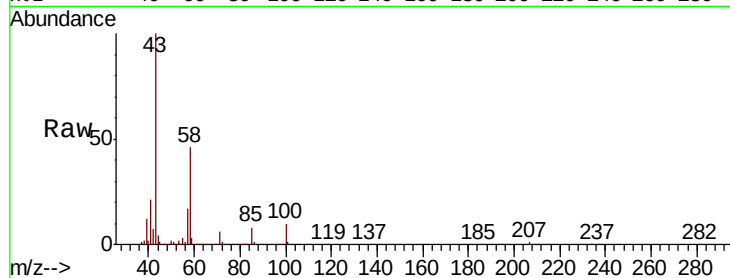




#59  
2-Hexanone  
Concen: 261.354 ug/l  
RT: 9.64 min Scan# 924  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

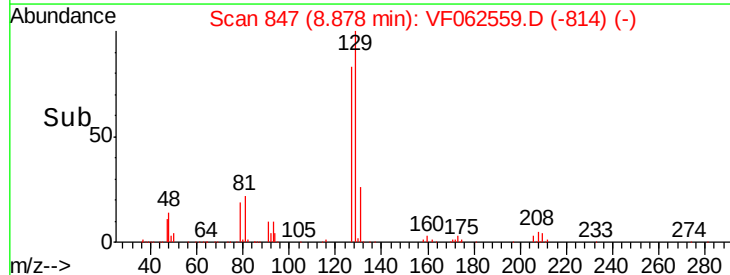
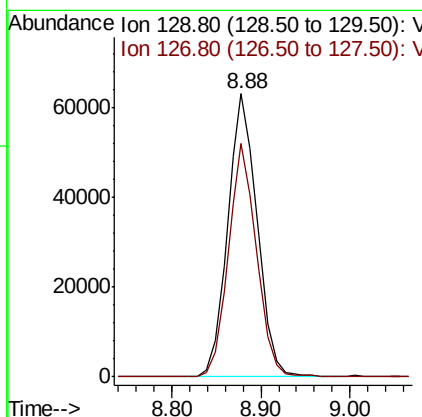
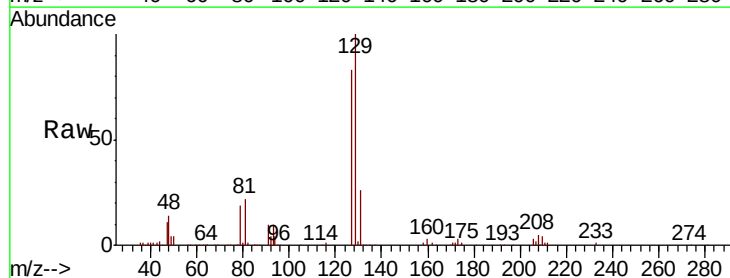
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

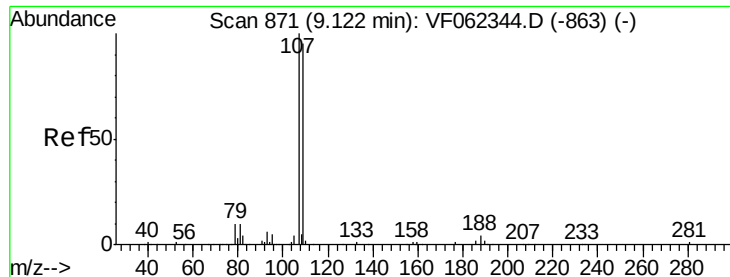
Tot Ion: 43 Resp: 222982  
Ion Ratio Lower Upper  
43 100  
58 47.7 24.3 73.0



#60  
Dibromochloromethane  
Concen: 57.965 ug/l  
RT: 8.88 min Scan# 847  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 129 Resp: 146334  
Ion Ratio Lower Upper  
129 100  
127 78.6 38.5 115.3





#61

1,2-Dibromoethane

Concen: 55.311 ug/l

RT: 9.15 min Scan# 875

Delta R.T. 0.03 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

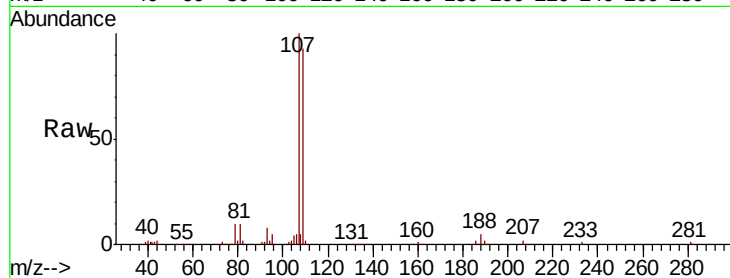
VSTDCCC050EC

Tot Ion:107 Resp: 100343

Ion Ratio Lower Upper

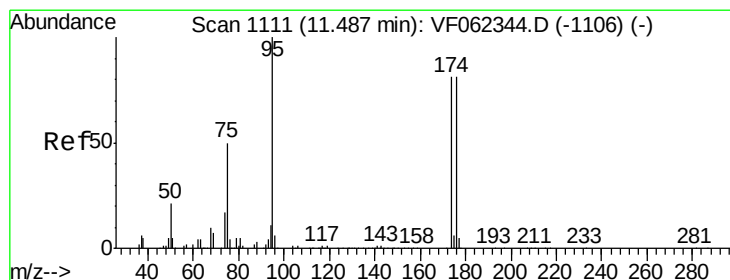
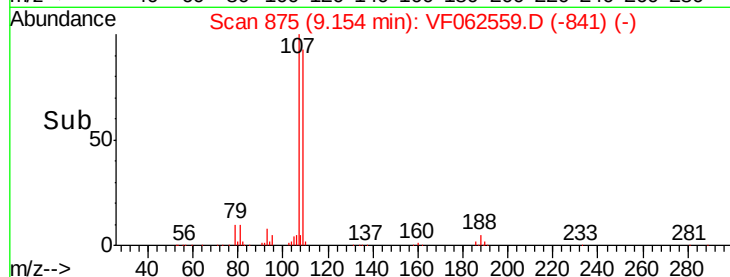
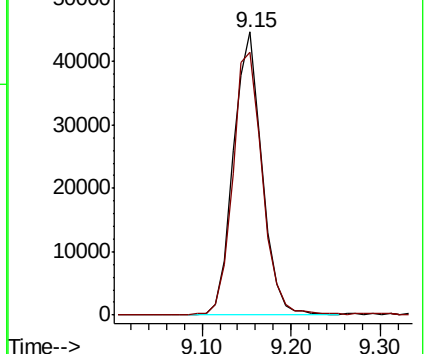
107 100

109 96.7 75.2 112.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 57.725 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

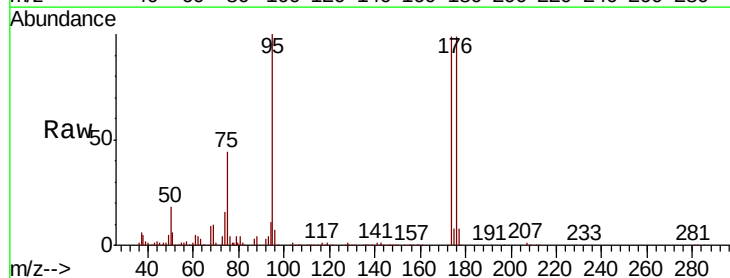
Tgt Ion: 95 Resp: 209266

Ion Ratio Lower Upper

95 100

174 97.2 0.0 191.8

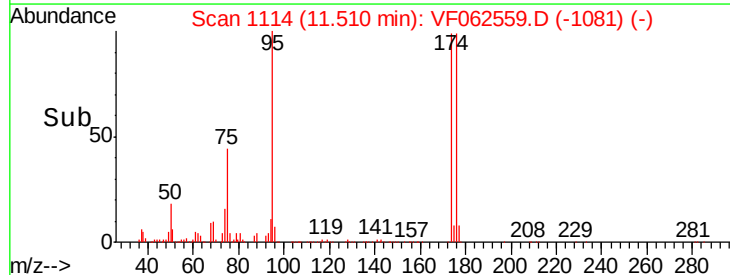
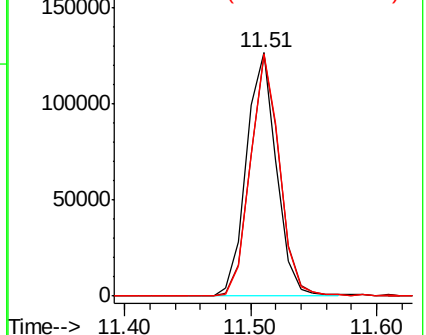
176 96.8 0.0 193.2

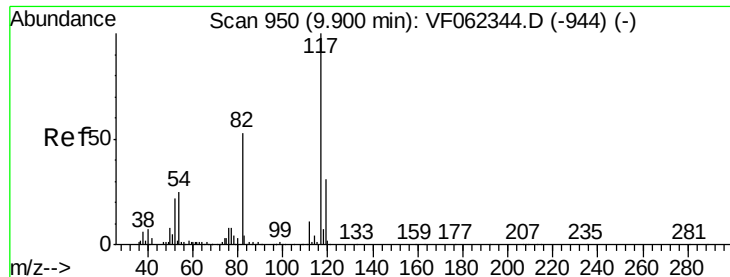


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

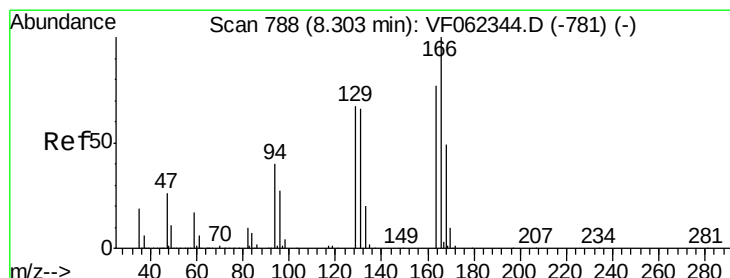
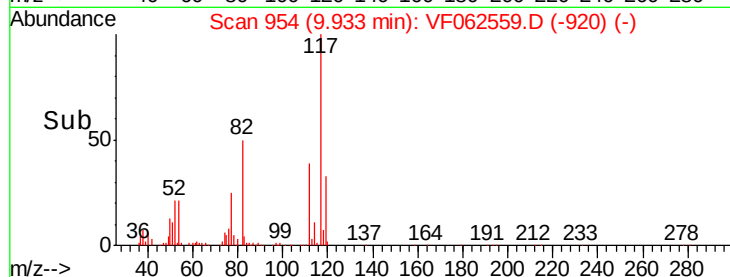
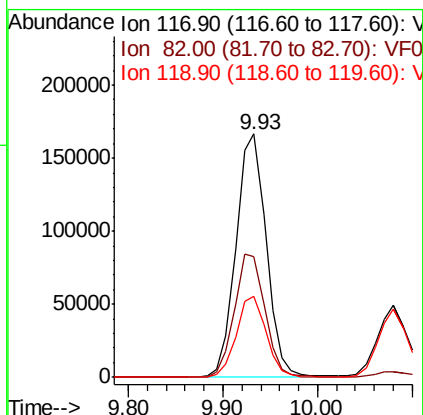
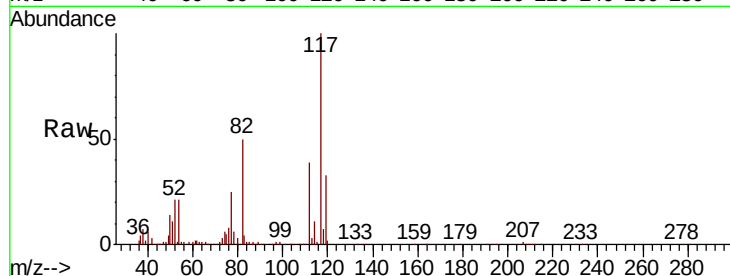




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.93 min Scan# 954  
Delta R.T. 0.03 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

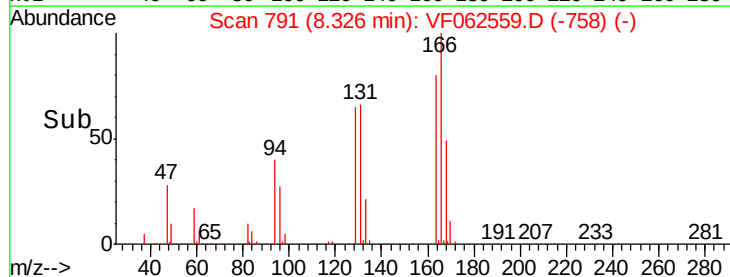
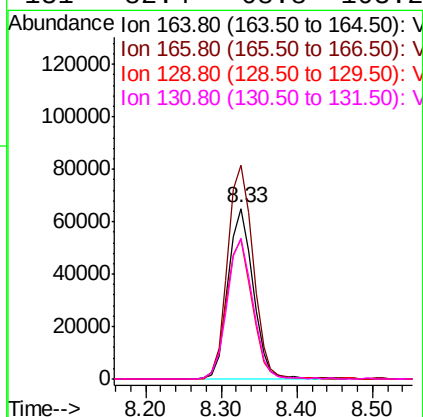
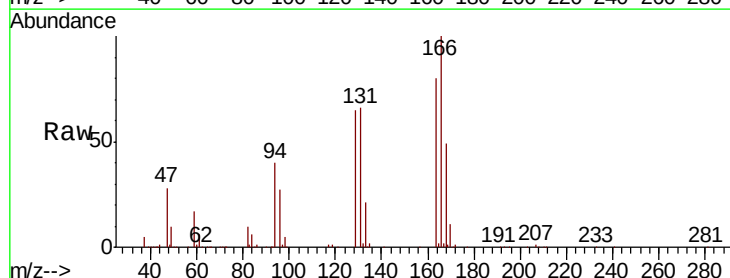
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

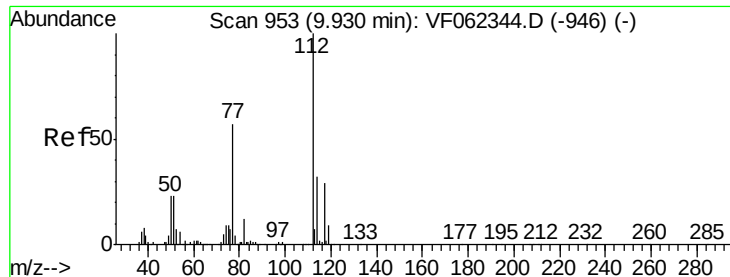
Tot Ion:117 Resp: 370612  
Ion Ratio Lower Upper  
117 100  
82 49.7 42.2 63.2  
119 33.3 25.0 37.4



#64  
Tetrachloroethene  
Concen: 49.602 ug/l  
RT: 8.33 min Scan# 791  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion:164 Resp: 149239  
Ion Ratio Lower Upper  
164 100  
166 125.2 104.2 156.4  
129 81.6 69.6 104.4  
131 82.4 68.8 103.2

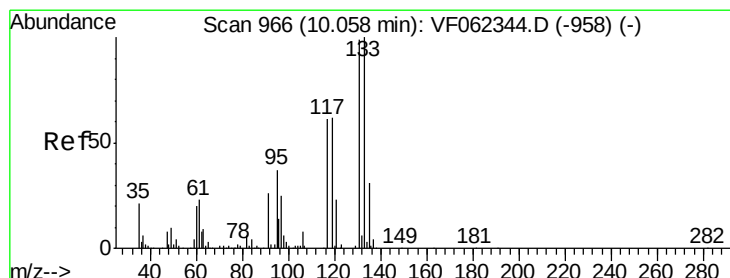
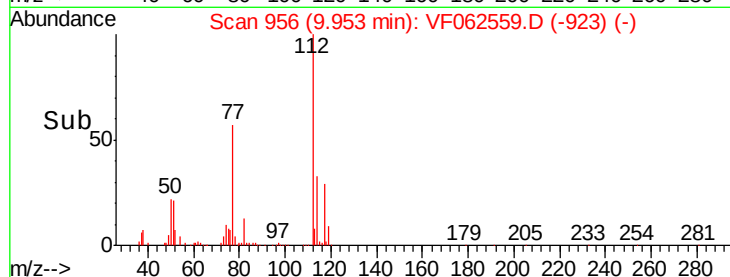
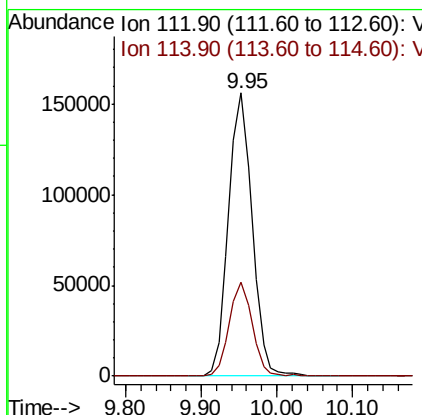
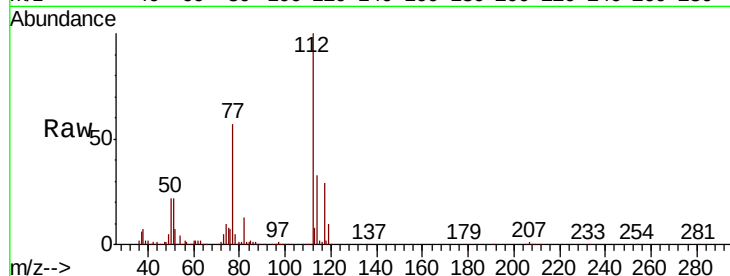




#65  
Chlorobenzene  
Concen: 55.200 ug/l  
RT: 9.95 min Scan# 956  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

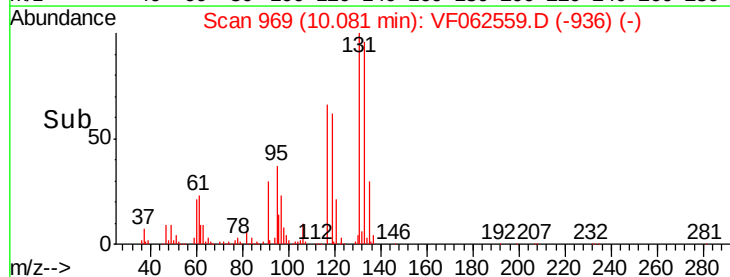
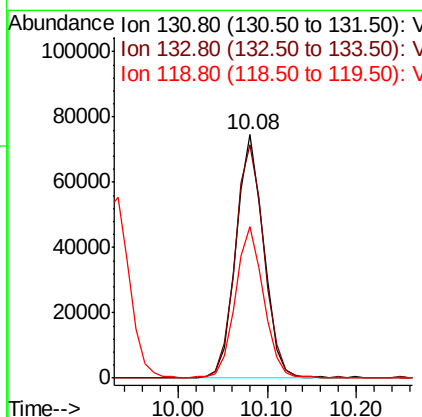
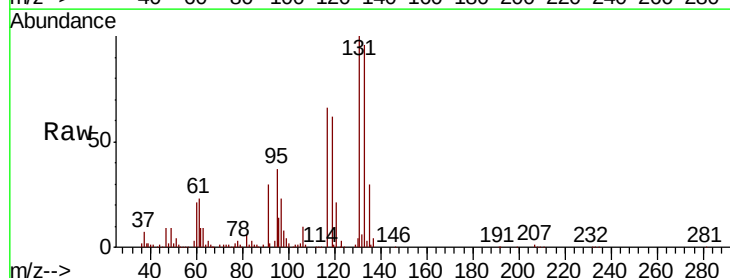
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

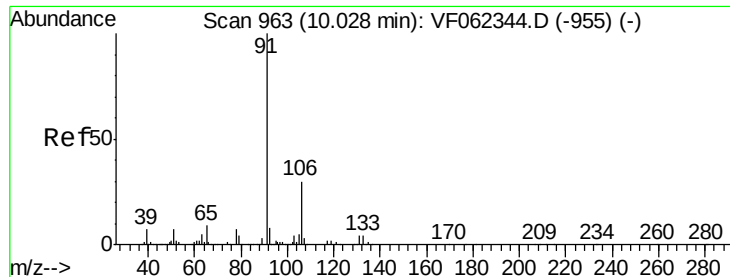
Tot Ion:112 Resp: 338487  
Ion Ratio Lower Upper  
112 100  
114 33.0 25.4 38.0



#66  
1,1,1,2-Tetrachloroethane  
Concen: 52.206 ug/l  
RT: 10.08 min Scan# 969  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion:131 Resp: 161493  
Ion Ratio Lower Upper  
131 100  
133 99.4 50.2 150.7  
119 63.2 31.6 95.0

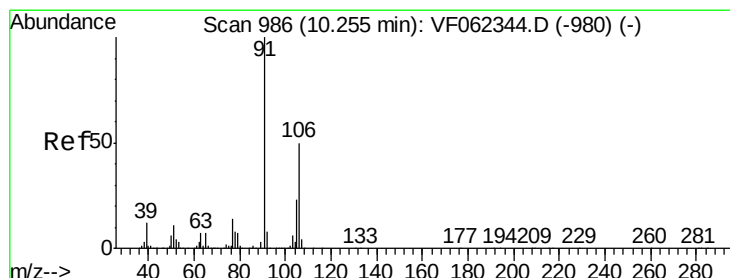
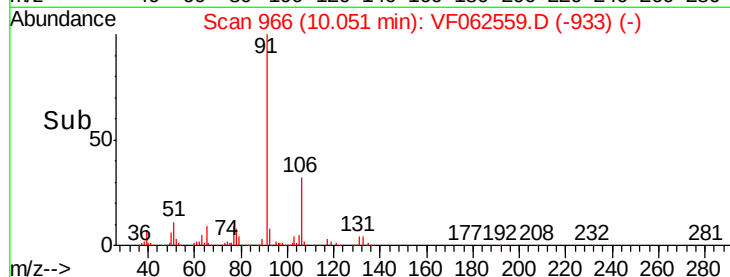
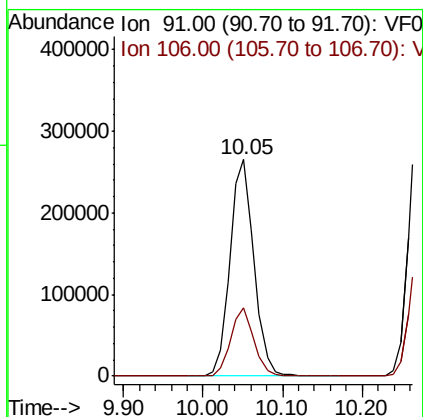
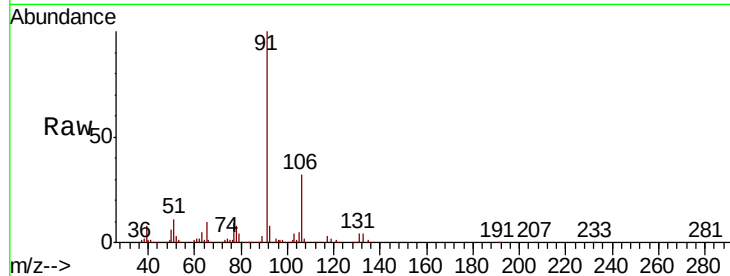




#67  
Ethyl Benzene  
Concen: 51.968 ug/l  
RT: 10.05 min Scan# 966  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

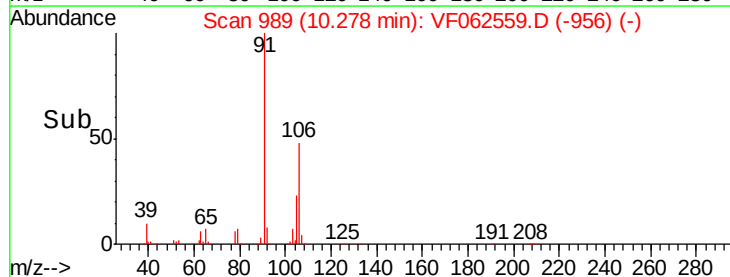
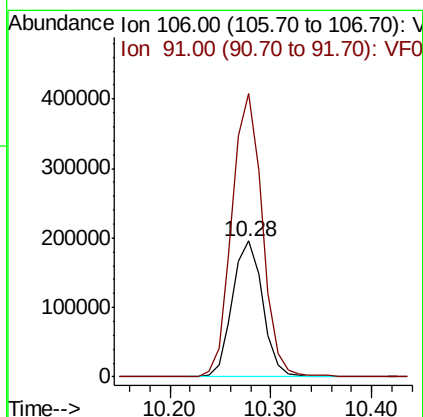
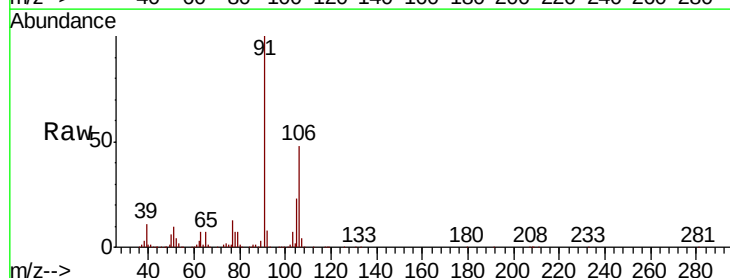
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

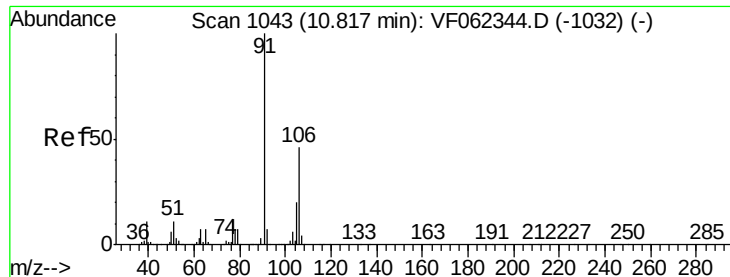
Tot Ion: 91 Resp: 558015  
Ion Ratio Lower Upper  
91 100  
106 31.6 24.1 36.1



#68  
m/p-Xylenes  
Concen: 103.443 ug/l  
RT: 10.28 min Scan# 989  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion: 106 Resp: 409820  
Ion Ratio Lower Upper  
106 100  
91 209.3 167.4 251.2

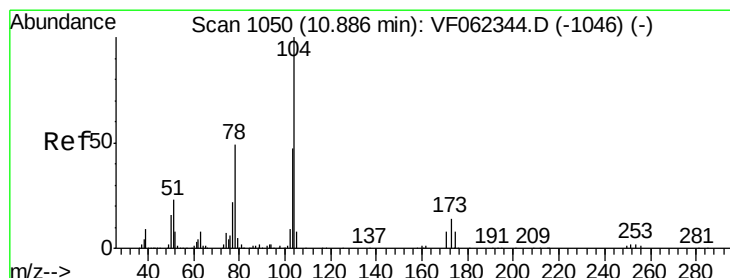
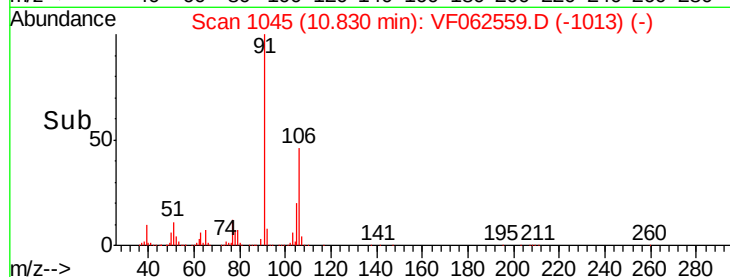
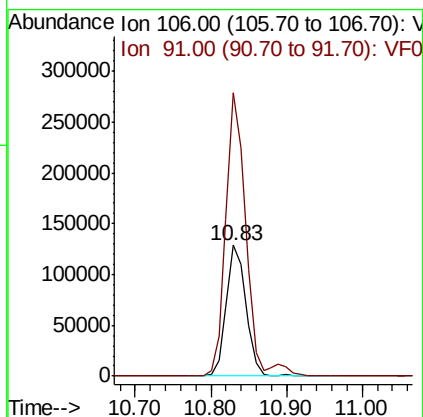
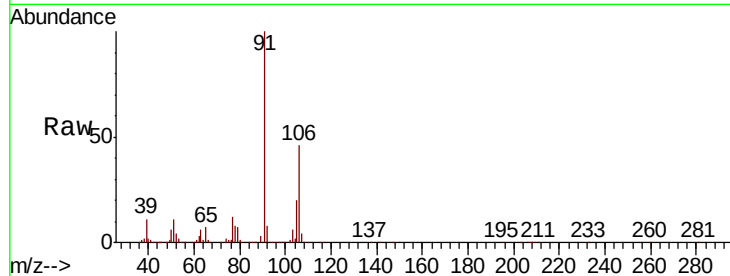




#69  
o-Xylene  
Concen: 54.464 ug/l  
RT: 10.83 min Scan# 1045  
Delta R.T. 0.01 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

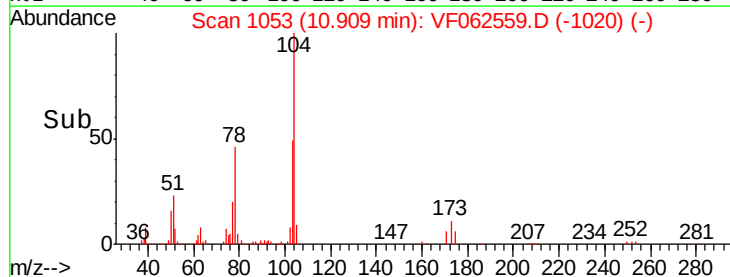
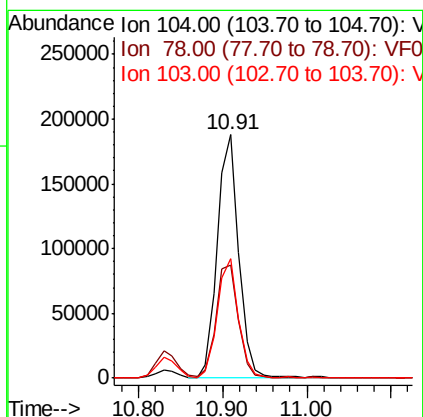
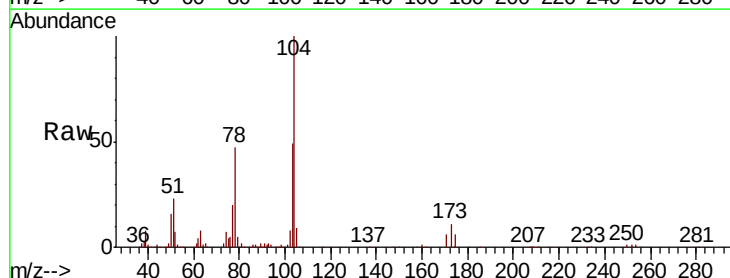
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

Tot Ion:106 Resp: 233160  
Ion Ratio Lower Upper  
106 100  
91 214.1 111.3 333.8

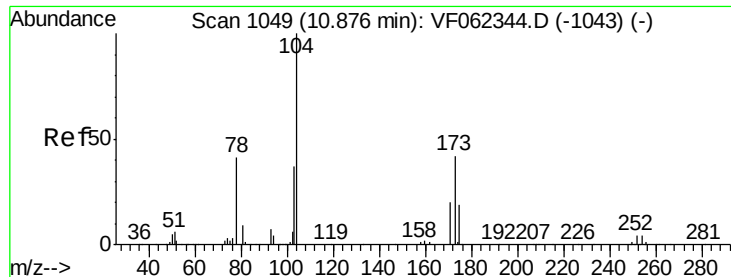


#70  
Styrene  
Concen: 51.613 ug/l  
RT: 10.91 min Scan# 1053  
Delta R.T. 0.02 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion:104 Resp: 331147  
Ion Ratio Lower Upper  
104 100  
78 48.6 39.5 59.3  
103 48.3 38.4 57.6



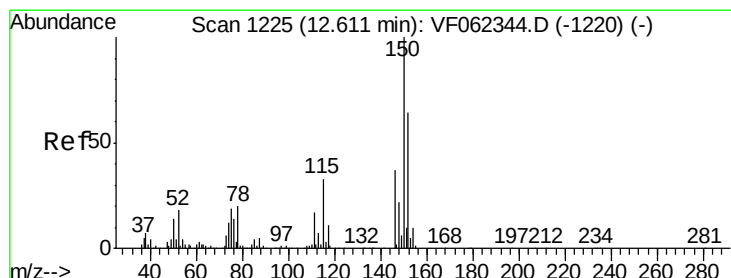
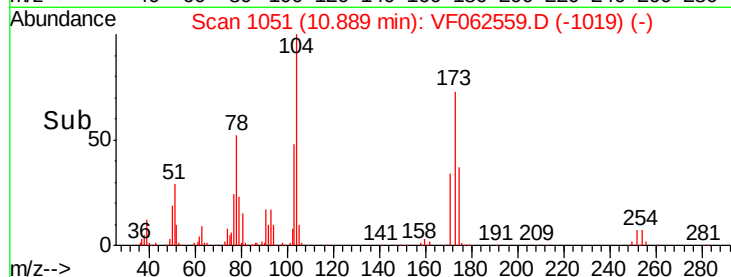
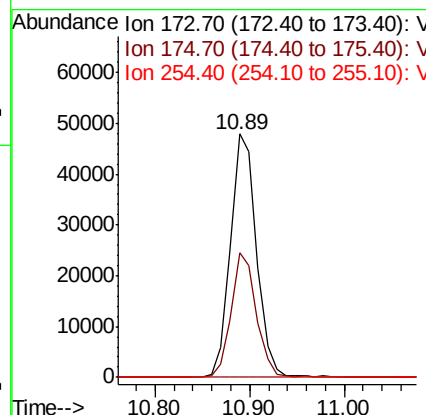
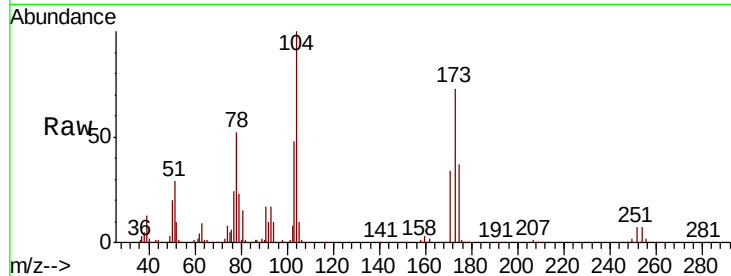




#71  
Bromoform  
Concen: 53.621 ug/l  
RT: 10.89 min Scan# 1051  
Delta R.T. 0.01 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

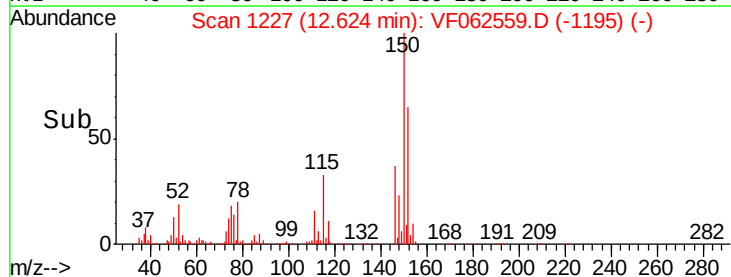
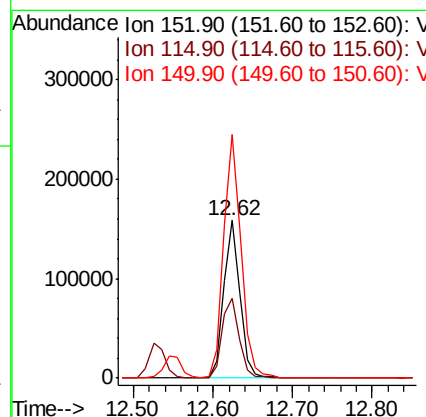
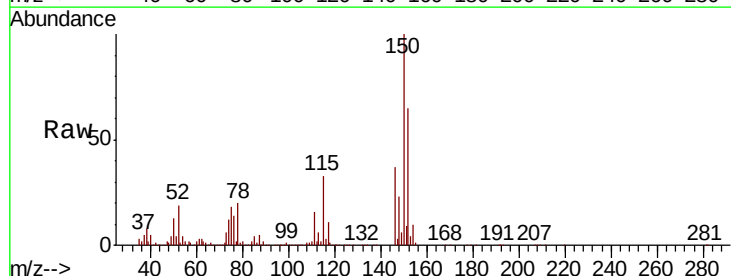
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

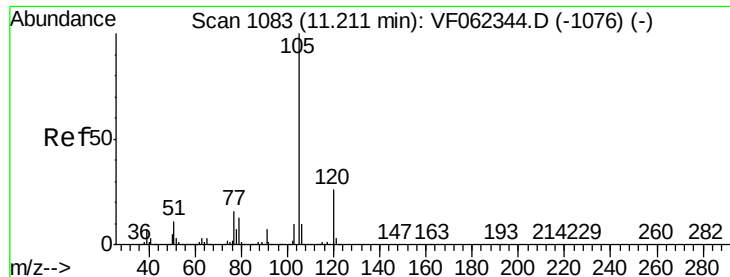
Tot Ion:173 Resp: 90873  
Ion Ratio Lower Upper  
173 100  
175 49.3 23.8 71.2  
254 0.1 0.1 0.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.62 min Scan# 1227  
Delta R.T. 0.01 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Tgt Ion:152 Resp: 229600  
Ion Ratio Lower Upper  
152 100  
115 53.0 26.4 79.2  
150 166.0 0.0 335.0





#73

Isopropylbenzene

Concen: 50.940 ug/l

RT: 11.22 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

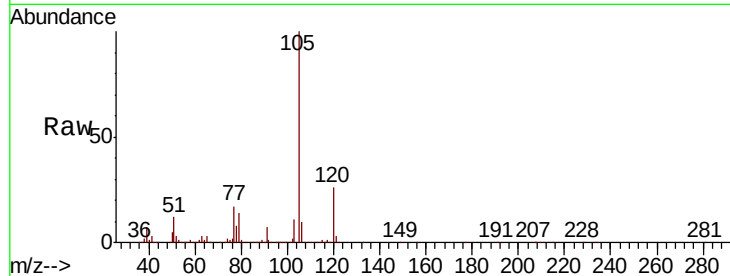
VSTDCCC050EC

Tot Ion:105 Resp: 693369

Ion Ratio Lower Upper

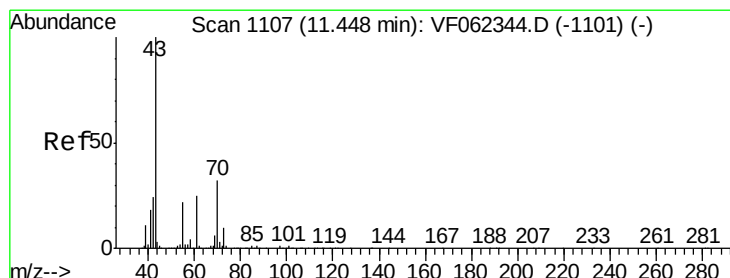
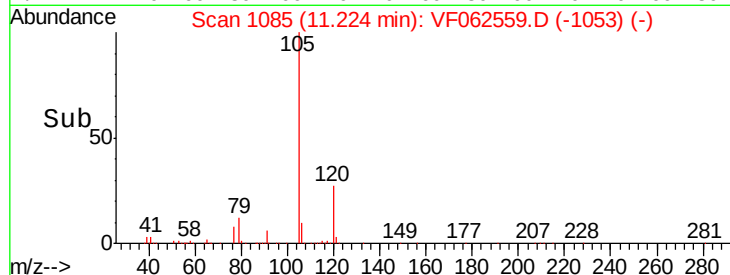
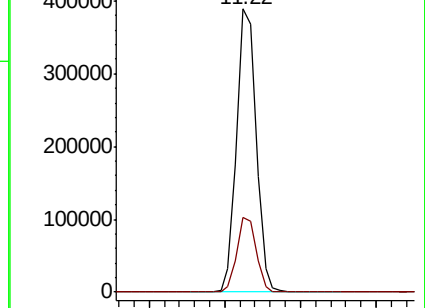
105 100

120 26.0 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 46.648 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Tgt Ion: 43 Resp: 136317

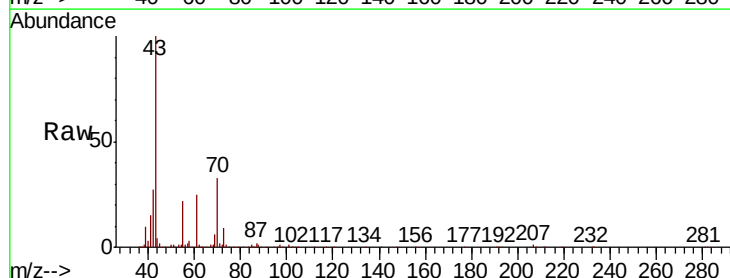
Ion Ratio Lower Upper

43 100

70 35.3 26.5 39.7

55 22.9 17.8 26.6

61 25.1 20.2 30.2

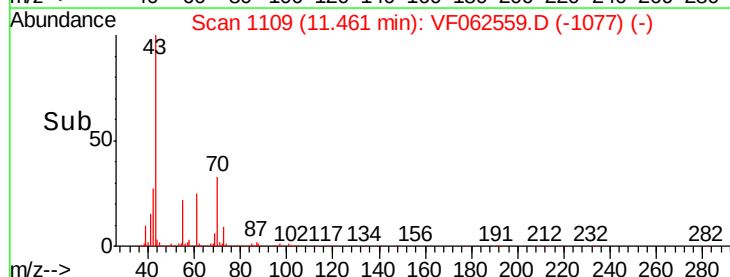
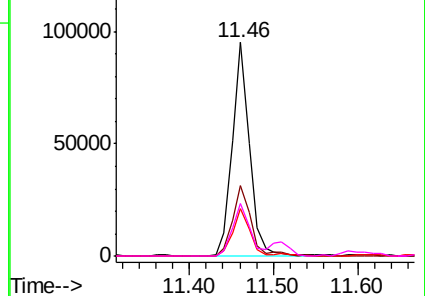


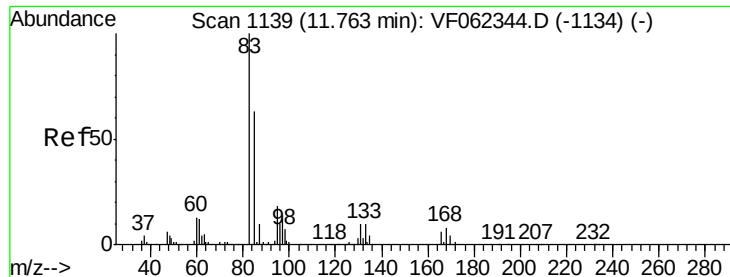
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 56.862 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

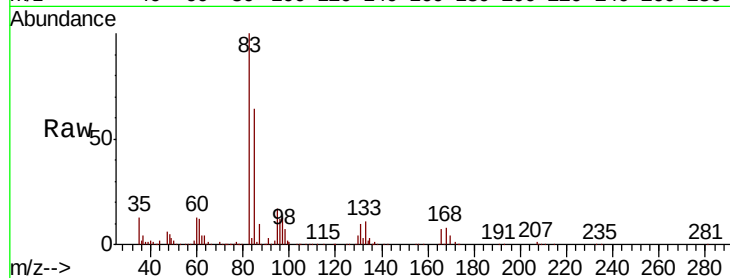
Tot Ion: 83 Resp: 121186

Ion Ratio Lower Upper

83 100

131 11.9 5.8 17.4

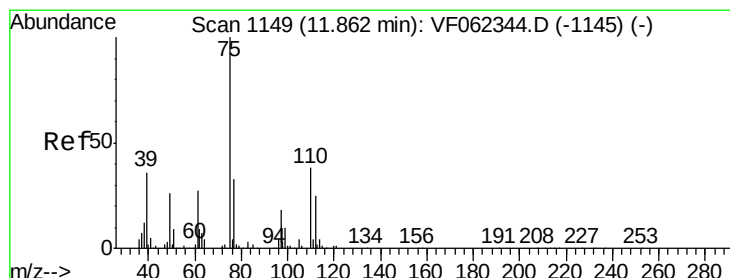
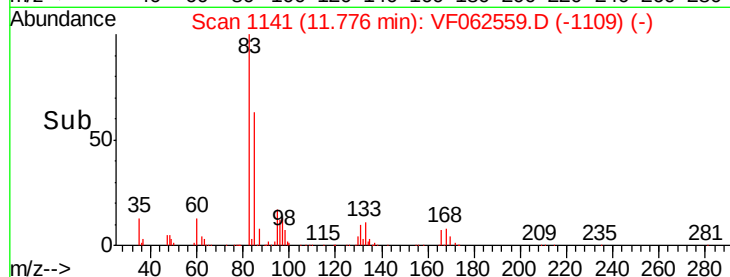
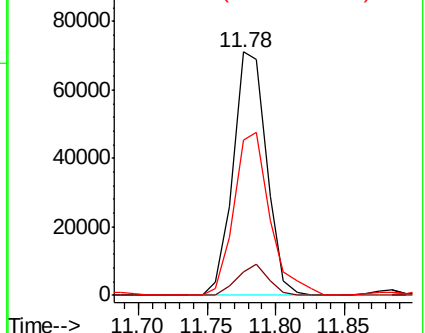
85 72.1 35.3 105.7



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): VF0

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 52.179 ug/l

RT: 11.88 min Scan# 1152

Delta R.T. 0.02 min

Lab File: VF062559.D

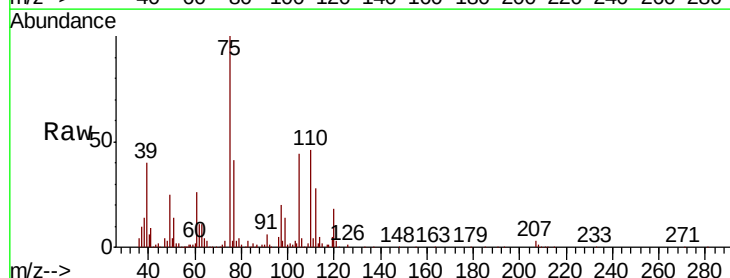
Acq: 13 May 2019 23:23

Tgt Ion: 75 Resp: 84843

Ion Ratio Lower Upper

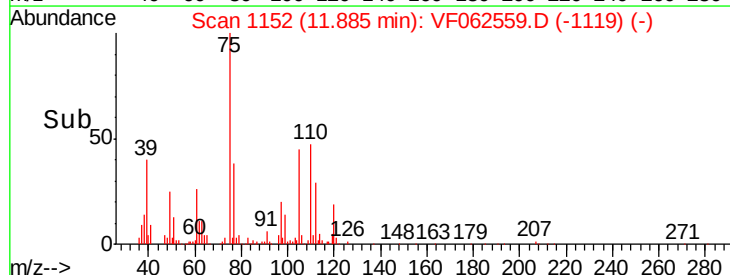
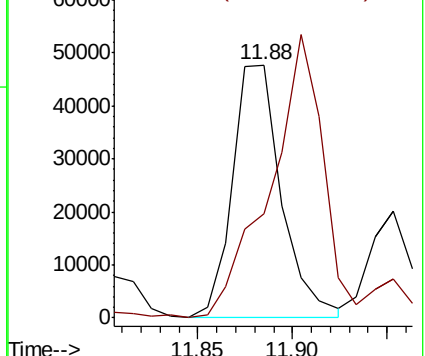
75 100

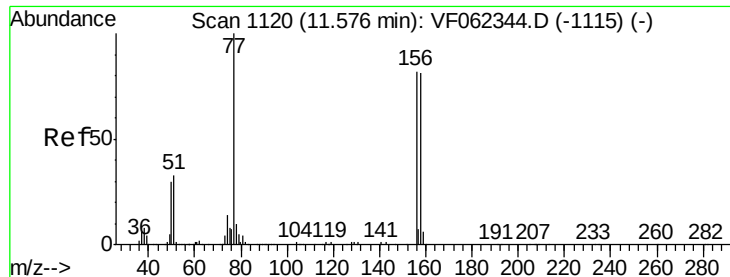
77 121.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 53.045 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

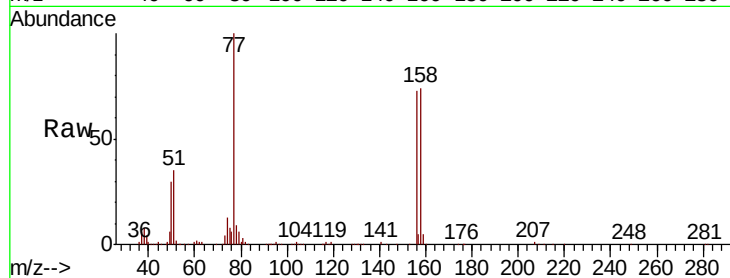
Tot Ion:156 Resp: 189493

Ion Ratio Lower Upper

156 100

77 129.6 64.8 194.3

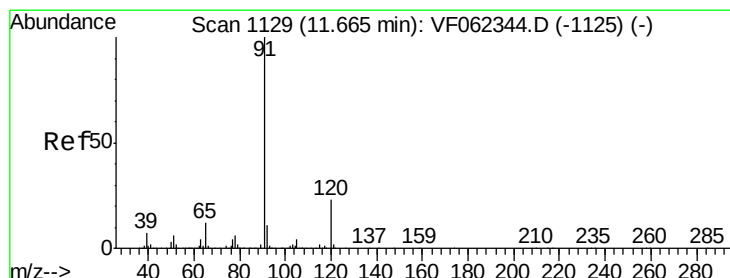
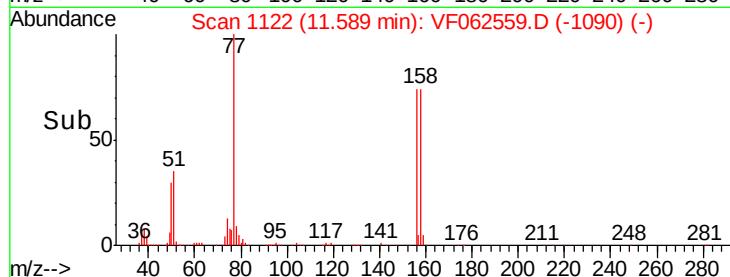
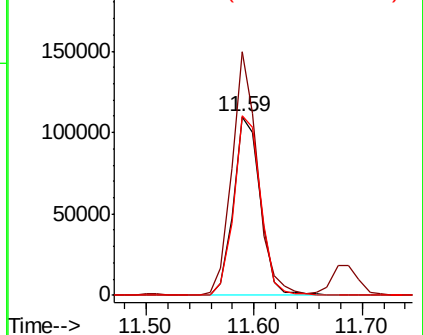
158 100.6 49.1 147.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 51.106 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. 0.02 min

Lab File: VF062559.D

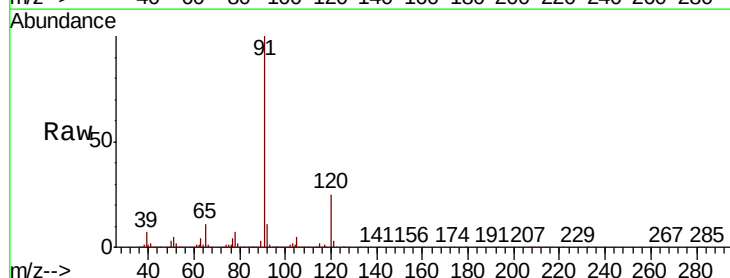
Acq: 13 May 2019 23:23

Tgt Ion: 91 Resp: 740611

Ion Ratio Lower Upper

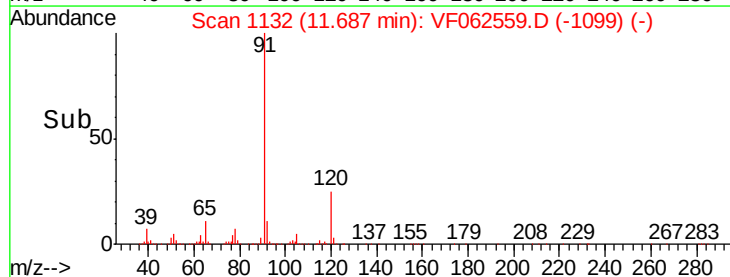
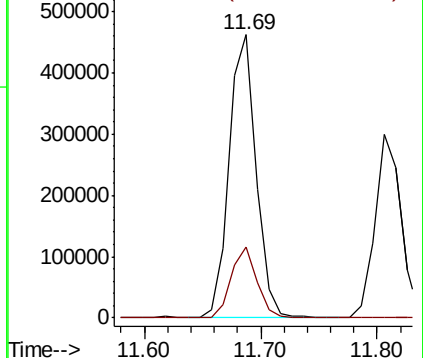
91 100

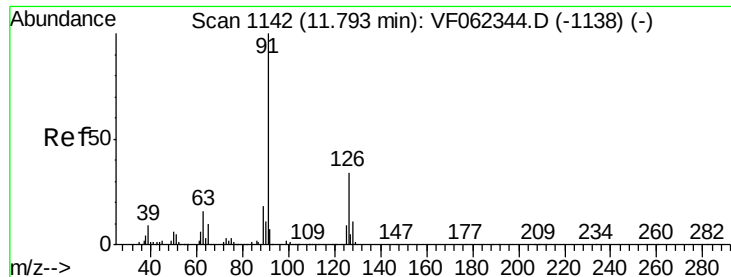
120 23.8 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 51.215 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

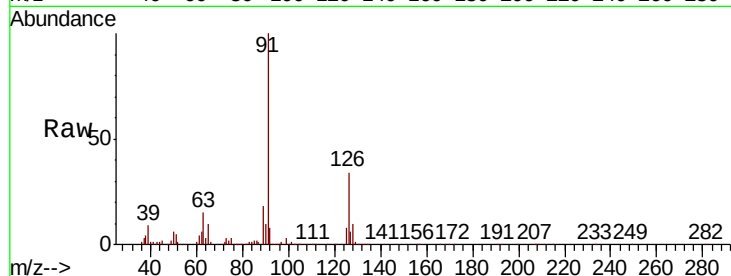
VSTDCCC050EC

Tot Ion: 91 Resp: 461510

Ion Ratio Lower Upper

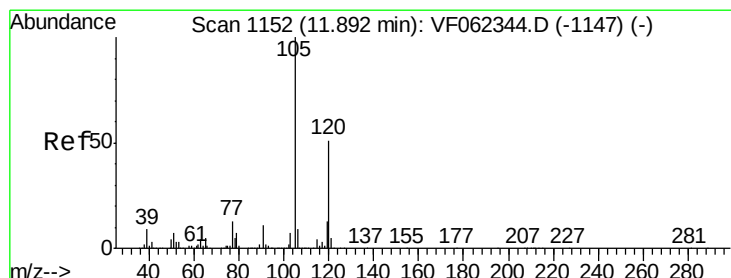
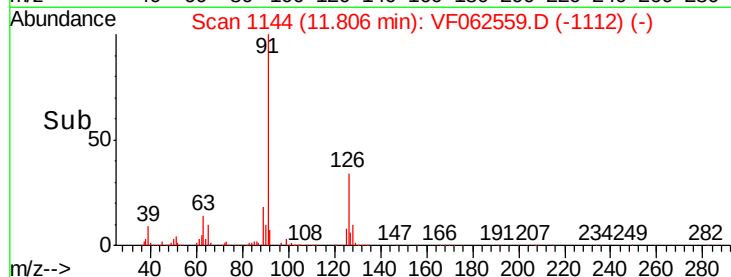
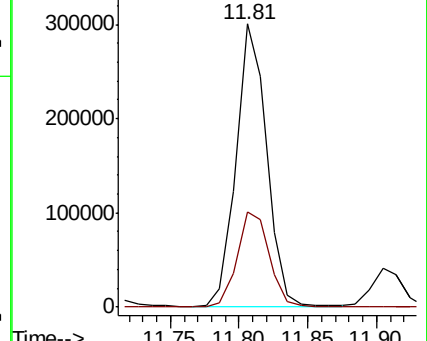
91 100

126 35.7 17.8 53.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 48.093 ug/l

RT: 11.90 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VF062559.D

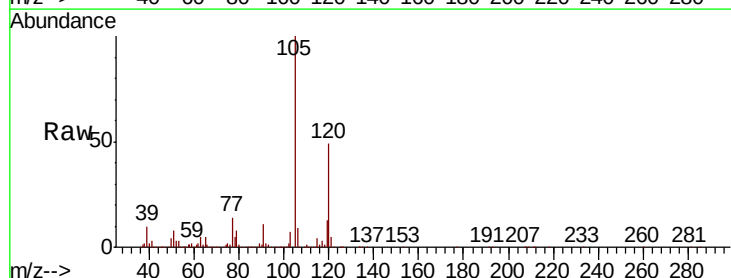
Acq: 13 May 2019 23:23

Tgt Ion: 105 Resp: 573770

Ion Ratio Lower Upper

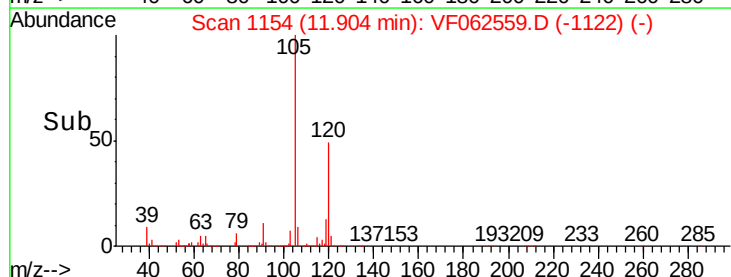
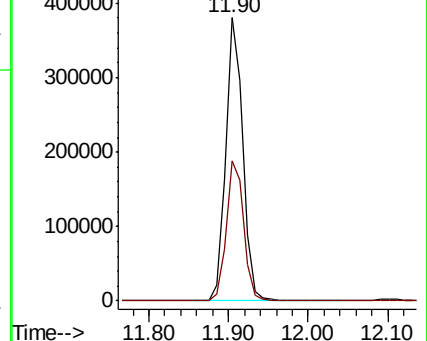
105 100

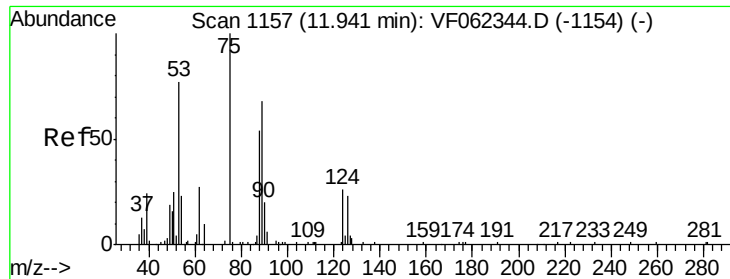
120 50.4 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 73.353 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

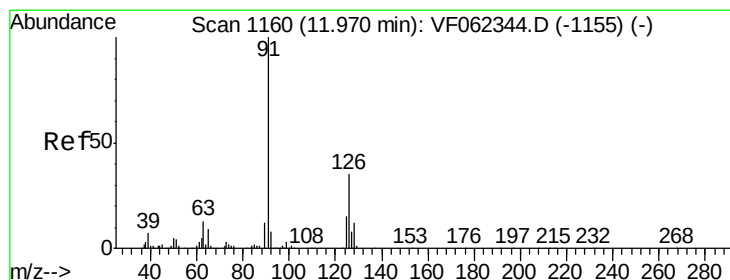
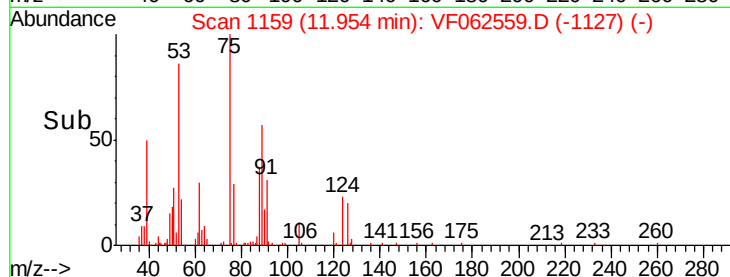
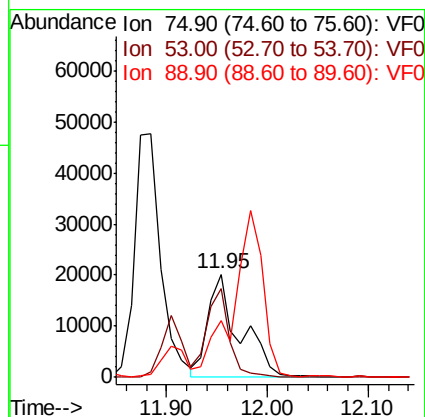
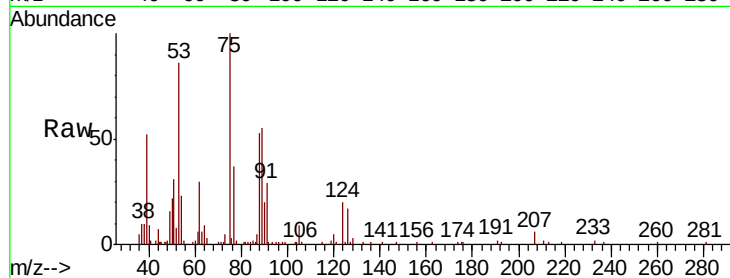
Tot Ion: 75 Resp: 44833

Ion Ratio Lower Upper

75 100

53 61.3 71.9 107.9#

89 0.0 0.0 0.0



#82

4-Chlorotoluene

Concen: 51.982 ug/l

RT: 11.98 min Scan# 1162

Delta R.T. 0.01 min

Lab File: VF062559.D

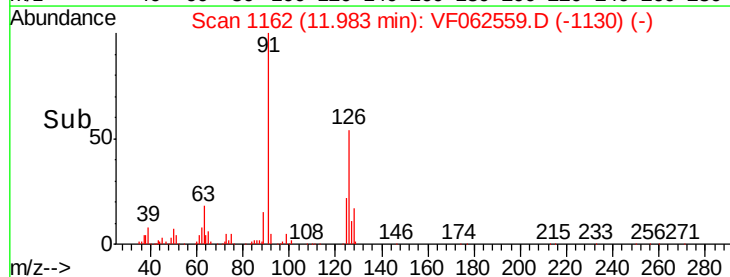
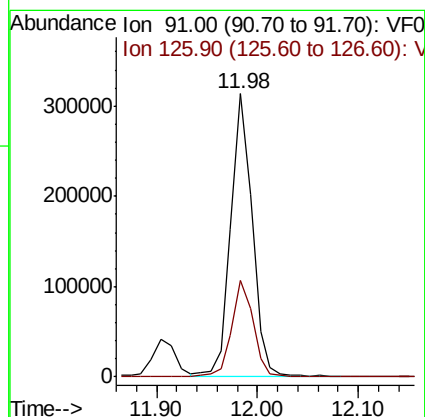
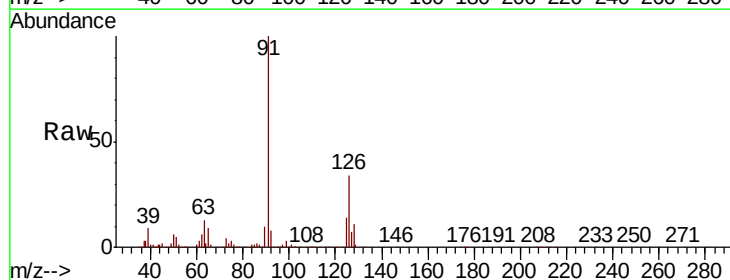
Acq: 13 May 2019 23:23

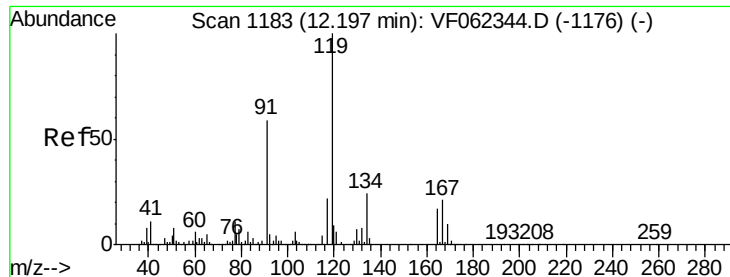
Tgt Ion: 91 Resp: 462639

Ion Ratio Lower Upper

91 100

126 35.0 17.7 53.1





#83

tert-Butylbenzene

Concen: 49.078 ug/l

RT: 12.21 min Scan# 1185

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

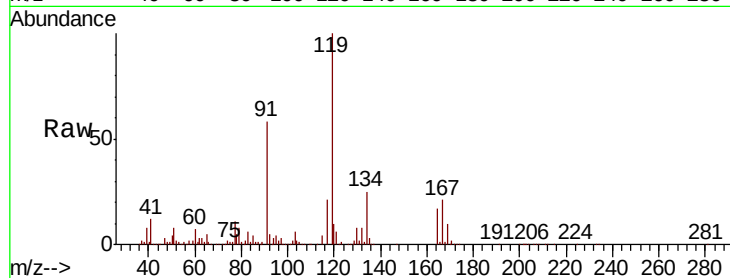
Tot Ion:119 Resp: 615350

Ion Ratio Lower Upper

119 100

91 59.8 30.4 91.3

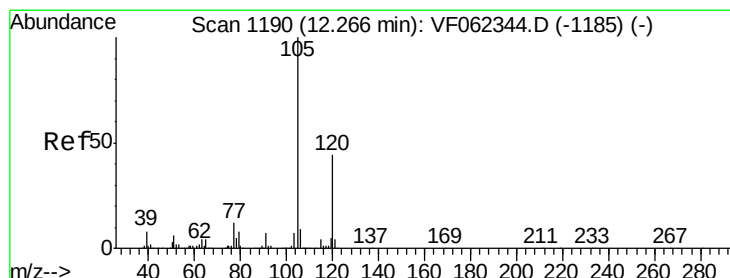
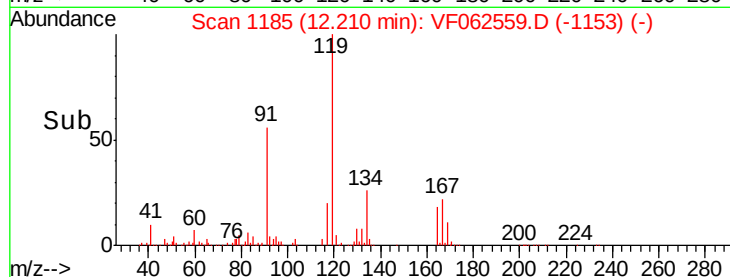
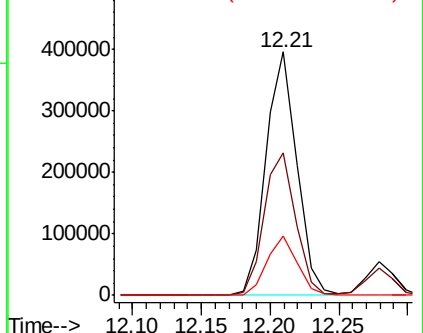
134 24.0 11.9 35.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 51.506 ug/l

RT: 12.28 min Scan# 1192

Delta R.T. 0.01 min

Lab File: VF062559.D

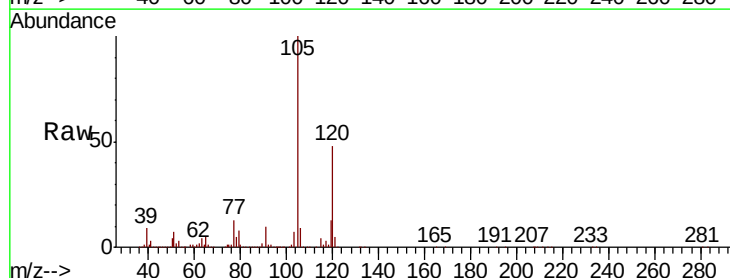
Acq: 13 May 2019 23:23

Tgt Ion:105 Resp: 601340

Ion Ratio Lower Upper

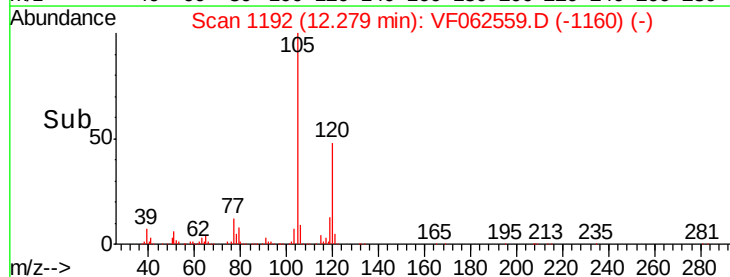
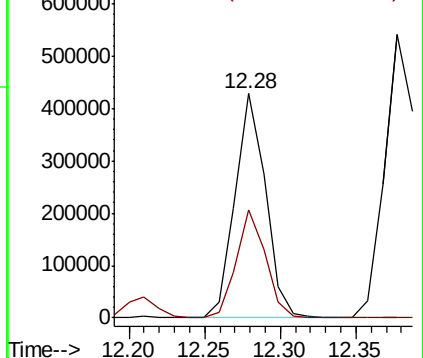
105 100

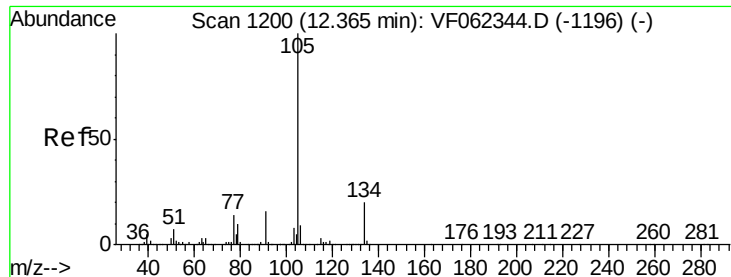
120 46.4 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 52.376 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

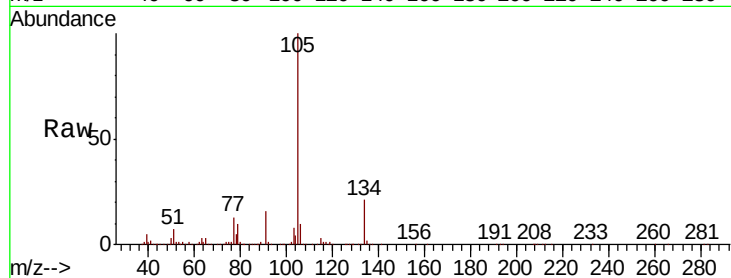
VSTDCCC050EC

Tot Ion:105 Resp: 799340

Ion Ratio Lower Upper

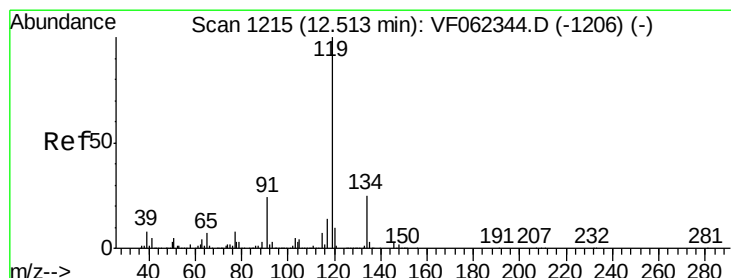
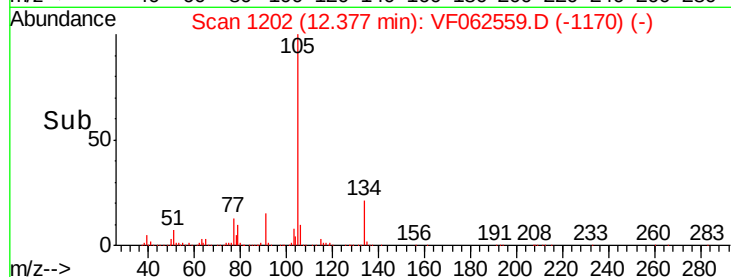
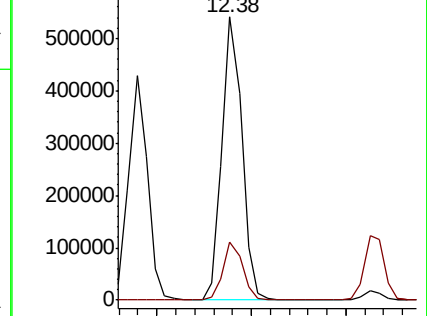
105 100

134 20.1 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 50.263 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

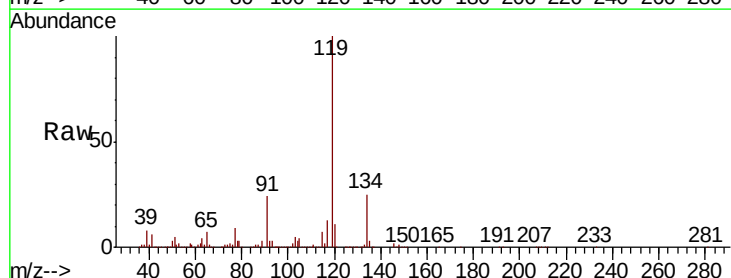
Tgt Ion:119 Resp: 712686

Ion Ratio Lower Upper

119 100

134 26.0 12.9 38.7

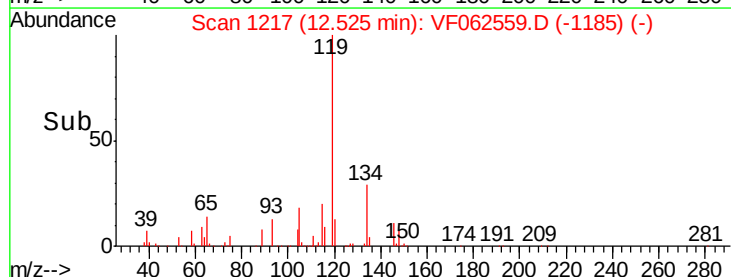
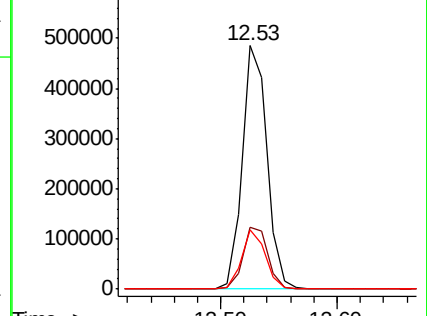
91 23.3 12.3 36.8



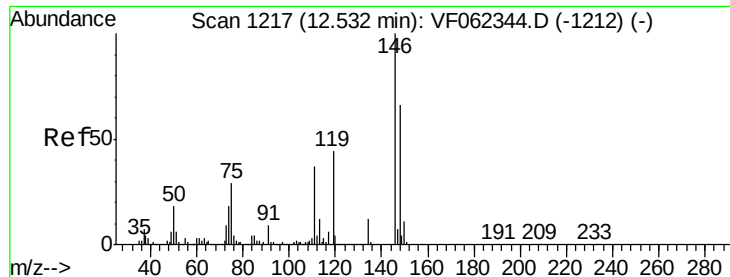
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



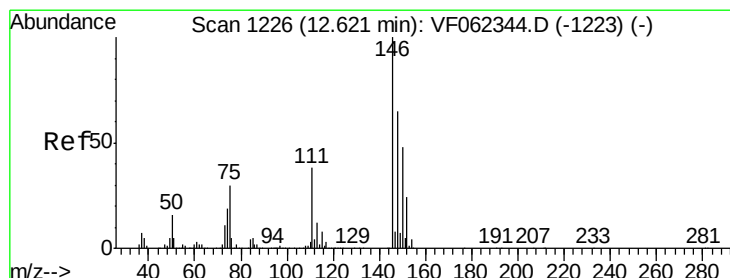
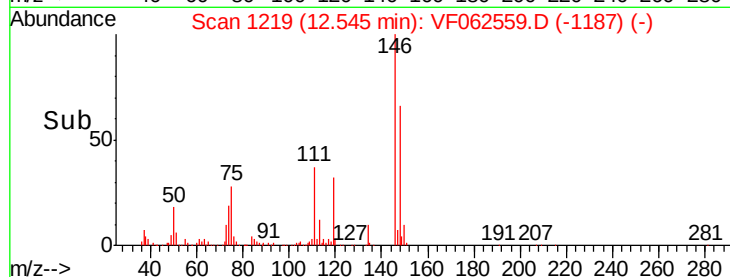
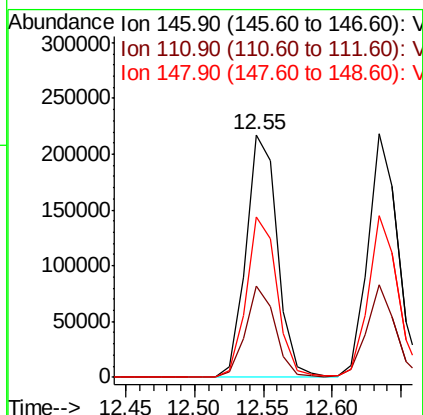
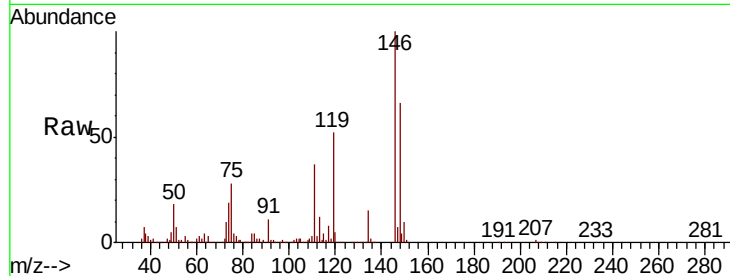




#87  
 1,3-Dichlorobenzene  
 Concen: 53.290 ug/l  
 RT: 12.55 min Scan# 1219  
 Delta R.T. 0.01 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

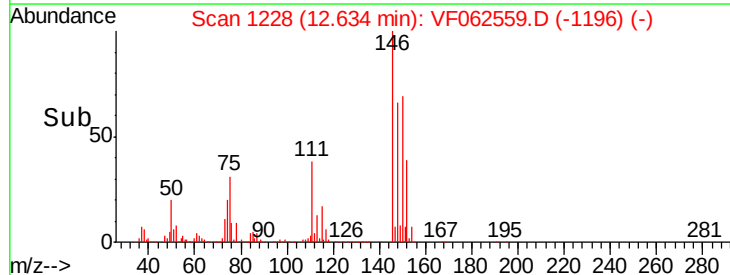
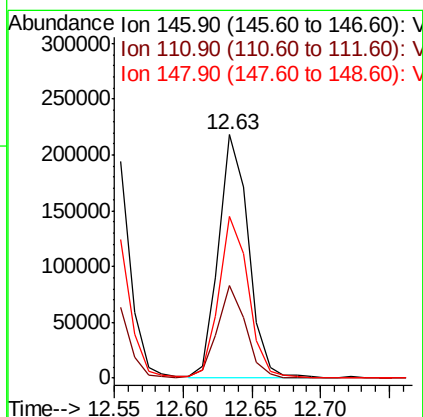
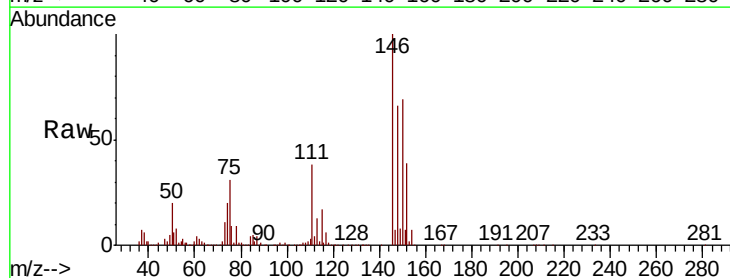
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

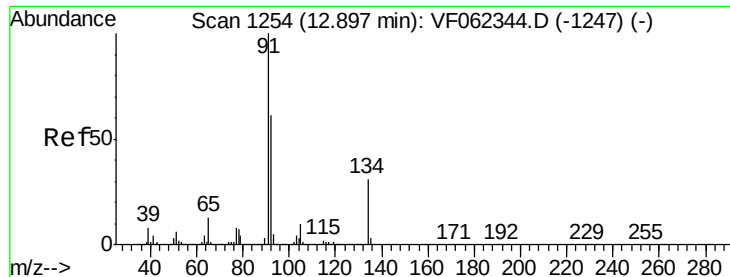
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 35.3  | 18.3  | 54.8  |
| 148     | 64.6  | 32.3  | 96.9  |



#88  
 1,4-Dichlorobenzene  
 Concen: 52.005 ug/l  
 RT: 12.63 min Scan# 1228  
 Delta R.T. 0.01 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.1  | 18.8  | 56.3  |
| 148     | 65.3  | 32.2  | 96.6  |





#89

n-Butylbenzene

Concen: 50.721 ug/l

RT: 12.91 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VF062559.D

Acq: 13 May 2019 23:23

Instrument :

MSVOA\_F

ClientSampleId :

VSTDCCC050EC

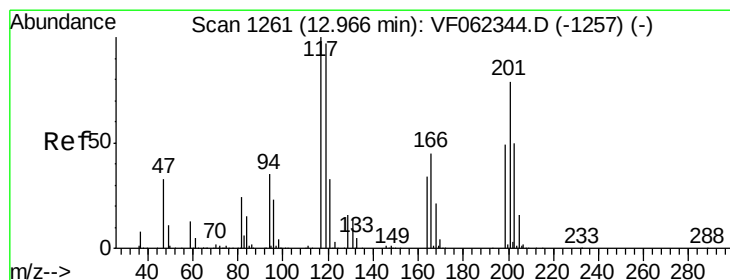
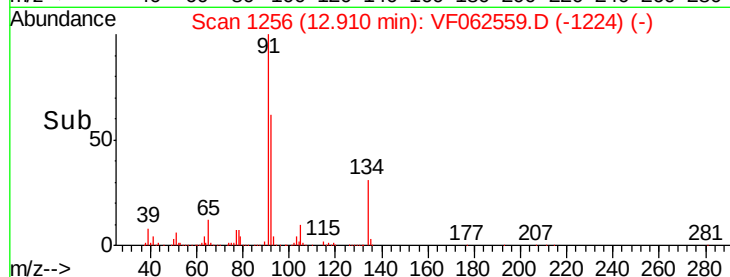
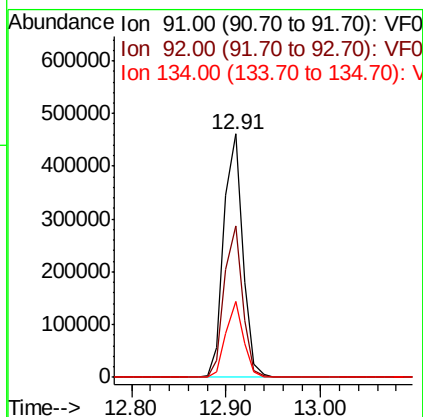
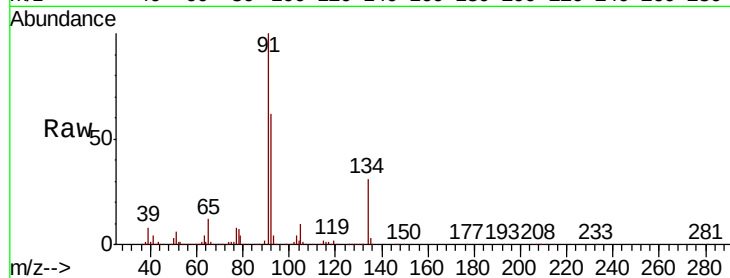
Tot Ion: 91 Resp: 639841

Ion Ratio Lower Upper

91 100

92 60.4 30.0 90.0

134 28.9 14.1 42.4



#90

Hexachloroethane

Concen: 50.249 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VF062559.D

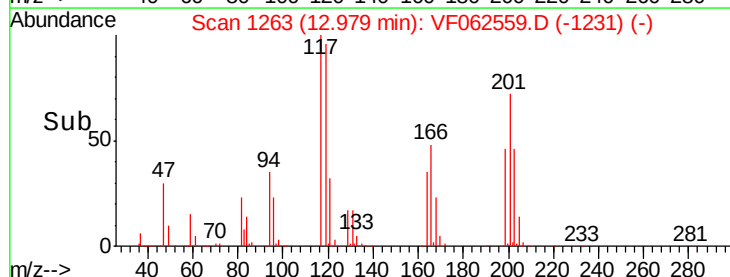
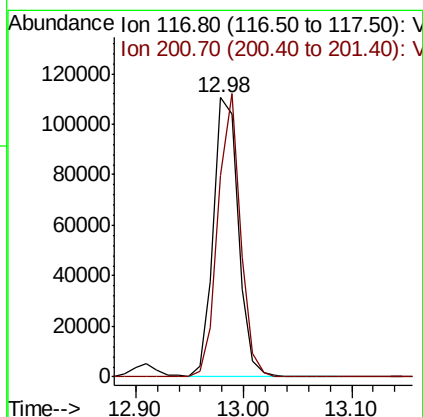
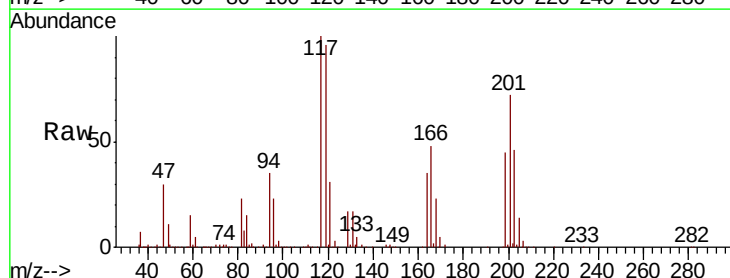
Acq: 13 May 2019 23:23

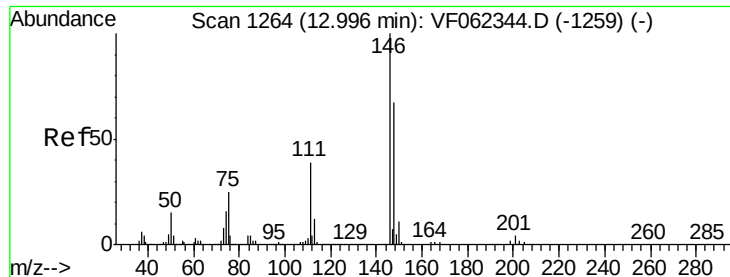
Tgt Ion: 117 Resp: 177899

Ion Ratio Lower Upper

117 100

201 90.6 46.2 138.5

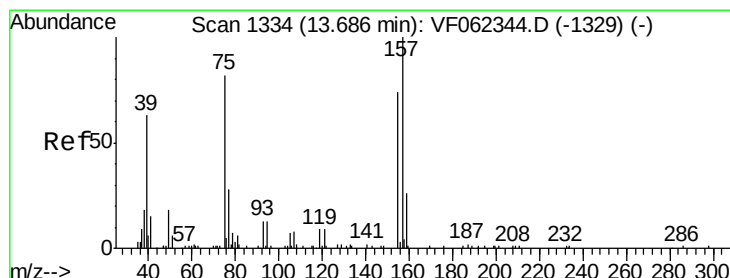
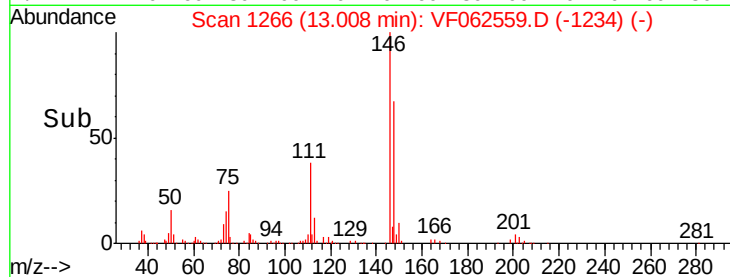
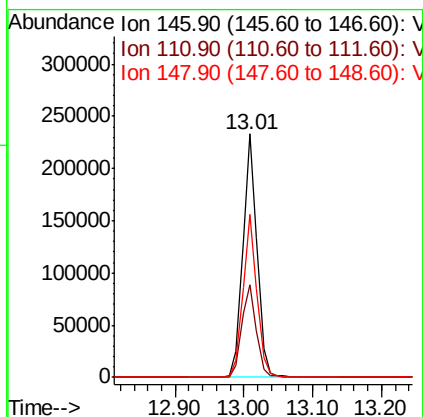
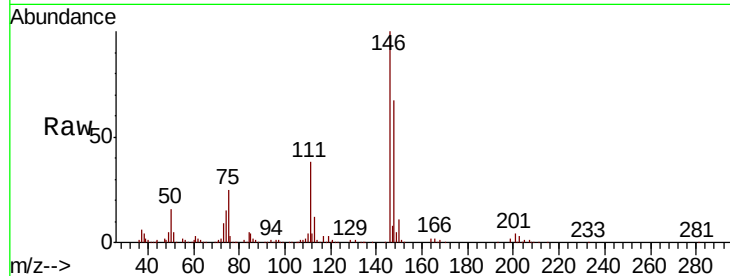




#91  
 1,2-Dichlorobenzene  
 Concen: 52.887 ug/l  
 RT: 13.01 min Scan# 1266  
 Delta R.T. 0.01 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

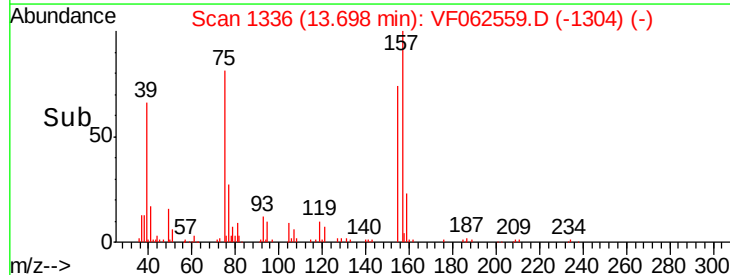
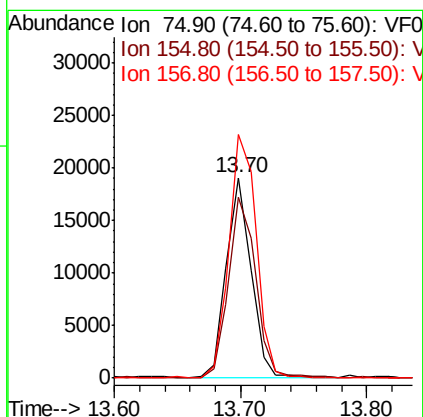
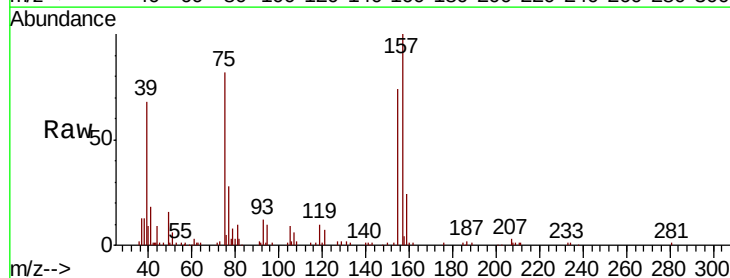
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

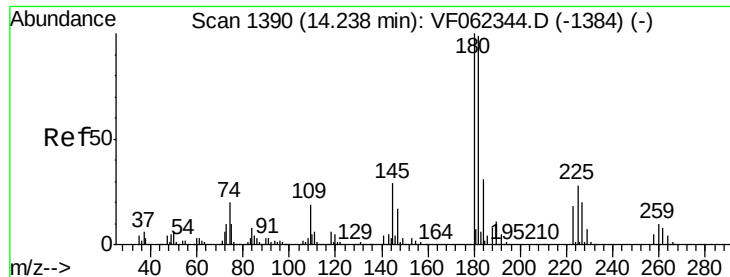
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.8  | 20.0  | 60.0  |
| 148     | 65.9  | 33.1  | 99.5  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 54.802 ug/l  
 RT: 13.70 min Scan# 1336  
 Delta R.T. 0.01 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 98.2  | 51.8  | 155.4 |
| 157     | 132.3 | 67.3  | 201.8 |

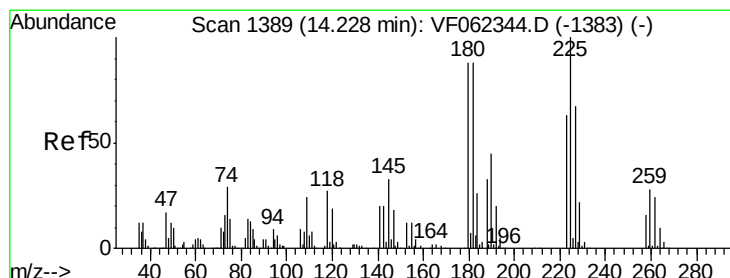
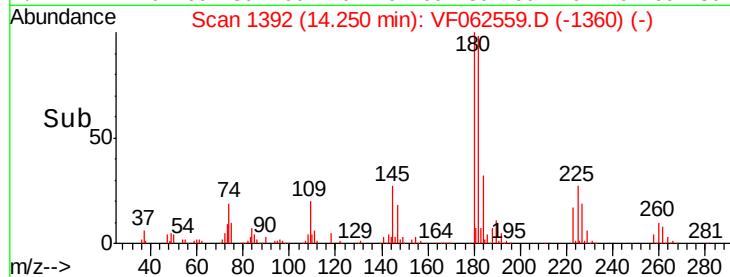
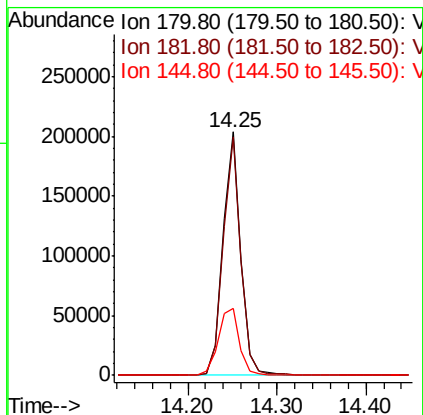
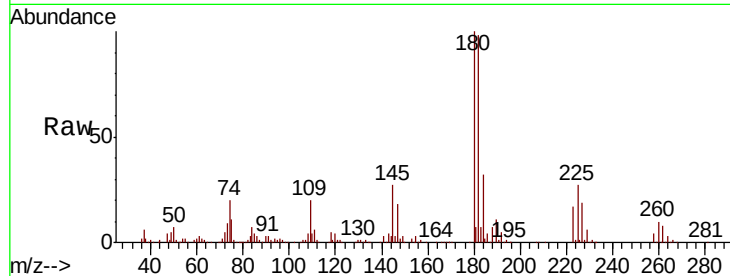




#93  
 1,2,4-Trichlorobenzene  
 Concen: 50.811 ug/l  
 RT: 14.25 min Scan# 1392  
 Delta R.T. 0.01 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

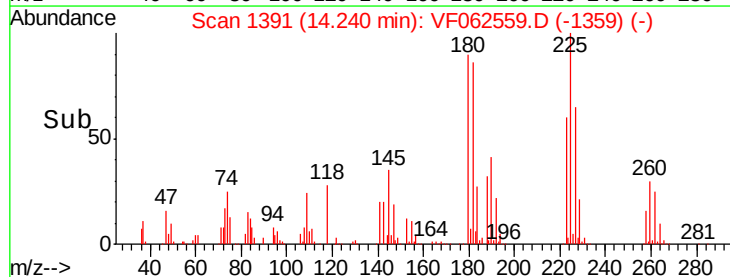
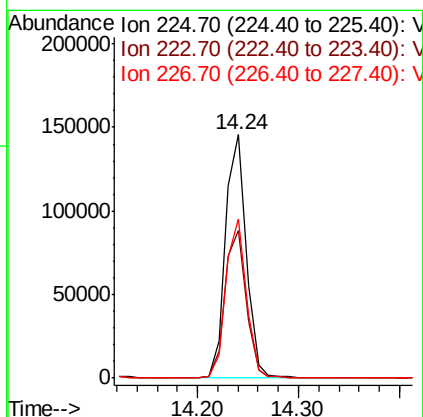
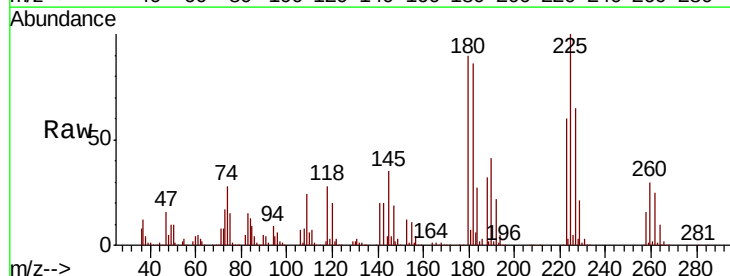
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDCCC050EC

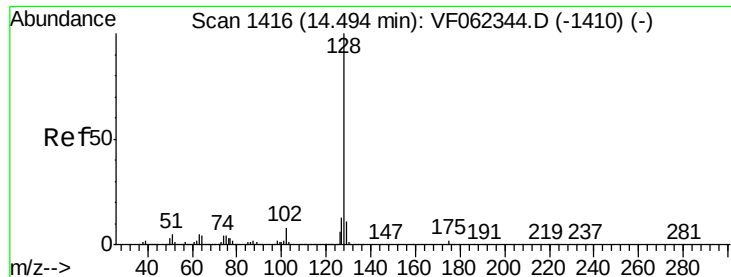
Tot Ion:180 Resp: 287803  
 Ion Ratio Lower Upper  
 180 100  
 182 97.4 49.0 147.0  
 145 32.5 16.7 50.1



#94  
 Hexachlorobutadiene  
 Concen: 49.462 ug/l  
 RT: 14.24 min Scan# 1391  
 Delta R.T. 0.01 min  
 Lab File: VF062559.D  
 Acq: 13 May 2019 23:23

Tgt Ion:225 Resp: 208815  
 Ion Ratio Lower Upper  
 225 100  
 223 62.2 31.9 95.5  
 227 64.7 33.1 99.5

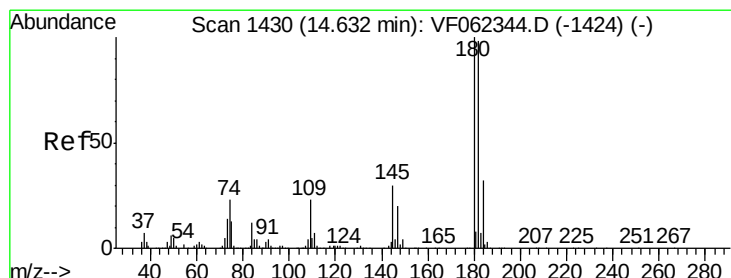
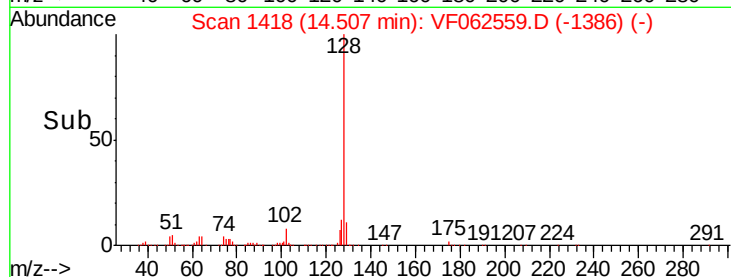
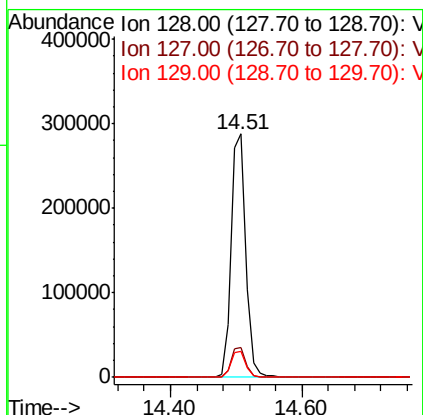
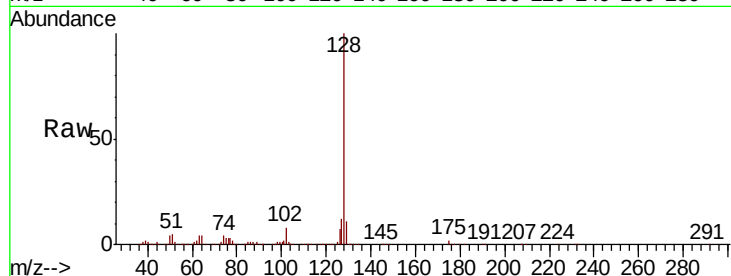




#95  
Naphthalene  
Concen: 52.939 ug/l  
RT: 14.51 min Scan# 1418  
Delta R.T. 0.01 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDCCC050EC

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.4  | 10.5  | 15.7  |
| 129     | 10.9  | 8.6   | 12.8  |



#96  
1,2,3-Trichlorobenzene  
Concen: 52.415 ug/l  
RT: 14.64 min Scan# 1432  
Delta R.T. 0.01 min  
Lab File: VF062559.D  
Acq: 13 May 2019 23:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.9  | 49.4  | 148.0 |
| 145     | 29.3  | 14.8  | 44.3  |

