

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF053019\  
 Data File : VF062796.D  
 Acq On : 30 May 2019 15:31  
 Operator : FY/SY  
 Sample : VSTDICCC050  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: May 31 03:21:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 31 03:15:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.07  | 168  | 895909   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.80  | 114  | 1501506  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.93  | 117  | 1167100  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 563515   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 5.05   | 65  | 335377   | 51.87 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.74% |      |
| 35) Dibromofluoromethane  | 4.33   | 113 | 606323   | 51.97 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.94% |      |
| 50) Toluene-d8            | 7.73   | 98  | 1536781  | 50.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.52% |      |
| 62) 4-Bromofluorobenzene  | 11.51  | 95  | 550349   | 53.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.30% |      |

## Target Compounds

|                               |      |     |         |         | Qvalue |     |
|-------------------------------|------|-----|---------|---------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.01 | 85  | 527907  | 40.913  | ug/l   | 100 |
| 3) Chloromethane              | 1.15 | 50  | 446325  | 44.117  | ug/l   | 100 |
| 4) Vinyl Chloride             | 1.20 | 62  | 451199  | 46.292  | ug/l   | 100 |
| 5) Bromomethane               | 1.41 | 94  | 288726  | 50.416  | ug/l   | 100 |
| 6) Chloroethane               | 1.47 | 64  | 191437  | 51.520  | ug/l   | 100 |
| 7) Trichlorofluoromethane     | 1.57 | 101 | 512973  | 37.386  | ug/l   | 100 |
| 8) Diethyl Ether              | 1.72 | 74  | 135239  | 48.837  | ug/l   | 100 |
| 9) 1,1,2-Trichlorotrifluoroet | 1.94 | 101 | 409763  | 46.011  | ug/l   | 100 |
| 10) Methyl Iodide             | 2.02 | 142 | 679144  | 39.338  | ug/l   | 100 |
| 11) Tert butyl alcohol        | 2.72 | 59  | 89578   | 225.943 | ug/l   | 100 |
| 12) 1,1-Dichloroethene        | 1.89 | 96  | 373498  | 47.592  | ug/l   | 100 |
| 13) Acrolein                  | 2.12 | 56  | 35501   | 232.455 | ug/l   | 100 |
| 14) Allyl chloride            | 2.21 | 41  | 335496  | 58.518  | ug/l   | 100 |
| 15) Acrylonitrile             | 3.11 | 53  | 368759  | 250.317 | ug/l   | 100 |
| 16) Acetone                   | 2.36 | 43  | 385405  | 256.298 | ug/l   | 100 |
| 17) Carbon Disulfide          | 1.93 | 76  | 1100048 | 63.953  | ug/l   | 100 |
| 18) Methyl Acetate            | 2.48 | 43  | 122504  | 41.921  | ug/l   | 100 |
| 19) Methyl tert-butyl Ether   | 2.56 | 73  | 664976  | 46.650  | ug/l   | 100 |
| 20) Methylene Chloride        | 2.36 | 84  | 231397  | 26.135  | ug/l   | 100 |
| 21) trans-1,2-Dichloroethene  | 2.44 | 96  | 404068  | 49.379  | ug/l   | 100 |
| 22) Diisopropyl ether         | 2.95 | 45  | 828745  | 49.192  | ug/l   | 100 |
| 23) Vinyl Acetate             | 3.37 | 43  | 2910988 | 234.697 | ug/l   | 100 |
| 24) 1,1-Dichloroethane        | 3.03 | 63  | 639049  | 50.036  | ug/l   | 100 |
| 25) 2-Butanone                | 4.55 | 43  | 815246  | 228.229 | ug/l   | 100 |
| 26) 2,2-Dichloropropane       | 3.80 | 77  | 355531  | 47.088  | ug/l   | 100 |
| 27) cis-1,2-Dichloroethene    | 3.67 | 96  | 664576  | 50.297  | ug/l   | 100 |
| 28) Bromochloromethane        | 3.93 | 49  | 347106  | 47.872  | ug/l   | 100 |
| 29) Tetrahydrofuran           | 4.29 | 42  | 320186  | 242.622 | ug/l   | 100 |
| 30) Chloroform                | 4.08 | 83  | 897902  | 48.070  | ug/l   | 100 |
| 31) Cyclohexane               | 3.90 | 56  | 491506  | 27.687  | ug/l   | 100 |
| 32) 1,1,1-Trichloroethane     | 4.31 | 97  | 468179  | 45.331  | ug/l   | 100 |
| 36) 1,1-Dichloropropene       | 4.50 | 75  | 721049  | 49.257  | ug/l   | 100 |
| 37) Ethyl Acetate             | 4.33 | 43  | 275661  | 46.727  | ug/l   | 100 |
| 38) Carbon Tetrachloride      | 4.21 | 117 | 476486  | 48.638  | ug/l   | 100 |

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

Instrument :  
 MSVOA\_F  
 ClientSampleId :

Quant Time: May 31 03:21:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 31 03:15:01 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 5.65  | 83   | 909669   | 50.969   | ug/l   | 100      |
| 40) Benzene                    | 4.85  | 78   | 2192644  | 50.770   | ug/l   | 100      |
| 41) Methacrylonitrile          | 4.95  | 41   | 147558   | 46.052   | ug/l   | 100      |
| 42) 1,2-Dichloroethane         | 5.15  | 62   | 402023   | 50.087   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 7.13  | 43   | 350532   | 47.941   | ug/l   | 100      |
| 44) Trichloroethene            | 5.70  | 130  | 585949   | 48.429   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 6.43  | 63   | 537076   | 50.506   | ug/l   | 100      |
| 46) Dibromomethane             | 6.29  | 93   | 300649   | 48.635   | ug/l   | 100      |
| 47) Bromodichloromethane       | 6.58  | 83   | 623279   | 49.492   | ug/l   | 100      |
| 48) Methyl methacrylate        | 6.90  | 41   | 198815   | 53.340   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 6.89  | 88   | 45748    | 1017.637 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.42  | 43   | 1243793  | 221.156  | ug/l   | 100      |
| 52) Toluene                    | 7.80  | 92   | 1127089  | 49.864   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 529838   | 50.823   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 7.48  | 75   | 768345   | 50.921   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 8.65  | 97   | 334155   | 48.293   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 8.78  | 69   | 366128   | 51.583   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 9.02  | 76   | 562433   | 49.961   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 7.47  | 63   | 624442   | 248.417  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.64  | 43   | 882102   | 224.170  | ug/l   | 100      |
| 60) Dibromochloromethane       | 8.88  | 129  | 440308   | 52.753   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.15  | 107  | 356738   | 52.206   | ug/l   | 100      |
| 64) Tetrachloroethene          | 8.33  | 164  | 480404   | 49.332   | ug/l   | 100      |
| 65) Chlorobenzene              | 9.95  | 112  | 1171903  | 49.519   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.08 | 131  | 459330   | 49.686   | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.05 | 91   | 1969550  | 47.745   | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.28 | 106  | 1528055  | 99.286   | ug/l   | 100      |
| 69) o-Xylene                   | 10.83 | 106  | 803634   | 51.513   | ug/l   | 100      |
| 70) Styrene                    | 10.91 | 104  | 1168810  | 50.955   | ug/l   | 100      |
| 71) Bromoform                  | 10.90 | 173  | 230989   | 51.391   | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.23 | 105  | 2075438  | 48.684   | ug/l   | 100      |
| 74) N-amyl acetate             | 11.46 | 43   | 539915   | 44.642   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.79 | 83   | 433815   | 47.094   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.88 | 75   | 278935   | 47.080   | ug/l   | 100      |
| 77) Bromobenzene               | 11.60 | 156  | 502557   | 48.135   | ug/l   | 100      |
| 78) n-propylbenzene            | 11.69 | 91   | 2481128  | 46.896   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 1415533  | 48.844   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.90 | 105  | 1690827  | 48.650   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 157412   | 50.877   | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 11.98 | 91   | 1384542  | 48.205   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.21 | 119  | 1646180  | 48.764   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 1583597  | 47.736   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 12.38 | 105  | 2274075  | 49.299   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.54 | 119  | 1801686  | 47.477   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.54 | 146  | 861664   | 45.965   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.63 | 146  | 823024   | 47.091   | ug/l   | 100      |
| 89) n-Butylbenzene             | 12.91 | 91   | 1759326  | 44.975   | ug/l   | 100      |
| 90) Hexachloroethane           | 12.99 | 117  | 464491   | 51.551   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.01 | 146  | 793002   | 48.180   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 47575    | 48.519   | ug/l   | 100      |

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

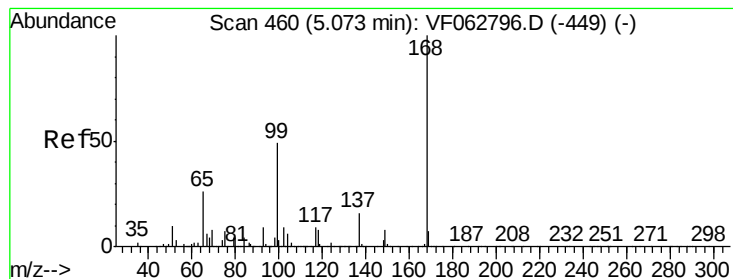
Instrument :  
MSVOA\_F  
ClientSampleId :

Quant Time: May 31 03:21:26 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 31 03:15:01 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.25 | 180  | 550145   | 49.250 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 14.24 | 225  | 392366   | 51.121 | ug/l  | 100      |
| 95) Naphthalene            | 14.51 | 128  | 908365   | 51.199 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.64 | 180  | 497907   | 50.352 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

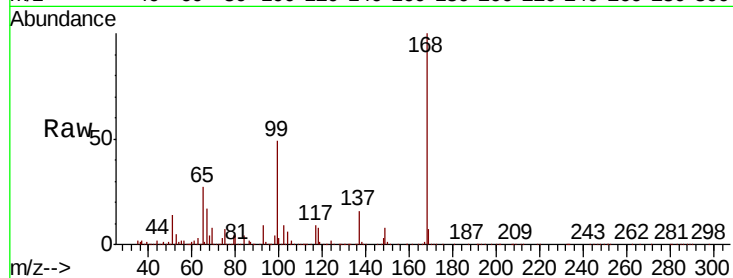
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion:168 Resp: 895909

Ion Ratio Lower Upper

168 100

99 48.9 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

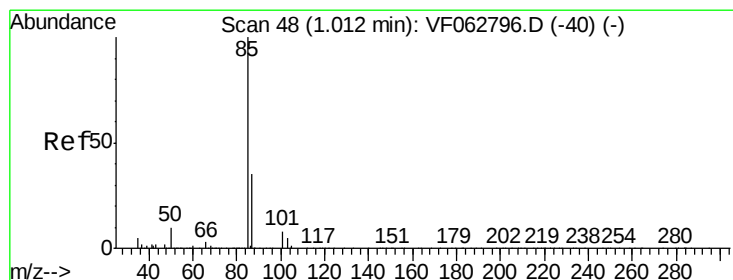
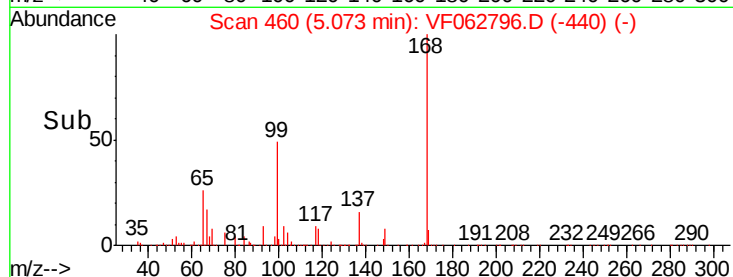
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 40.913 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062796.D

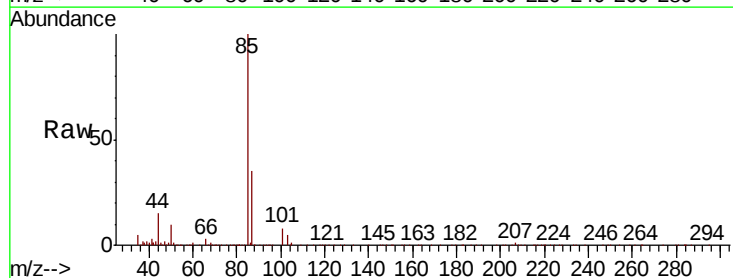
Acq: 30 May 2019 15:31

Tgt Ion: 85 Resp: 527907

Ion Ratio Lower Upper

85 100

87 35.3 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

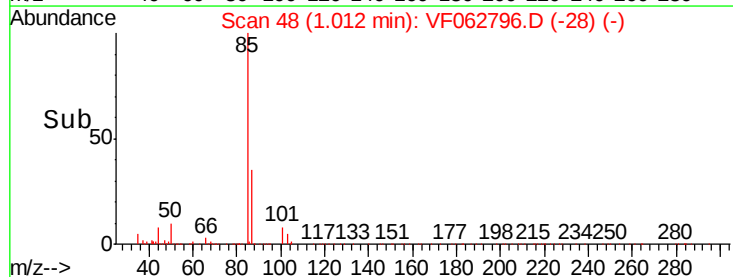
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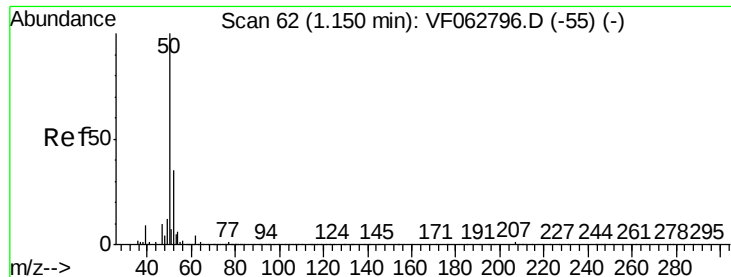
100000

50000

0

Time-->





#3

Chloromethane

Concen: 44.117 ug/l

RT: 1.15 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

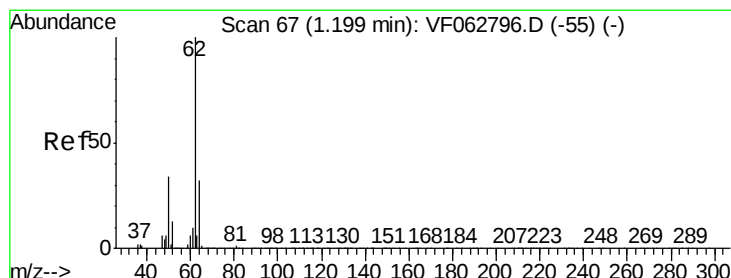
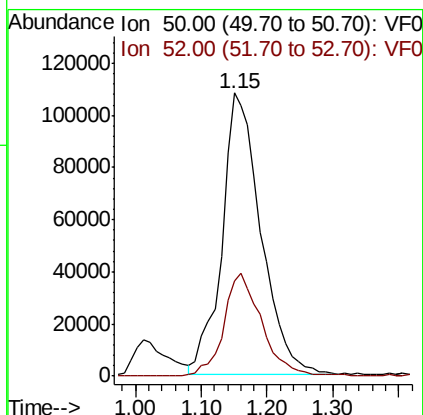
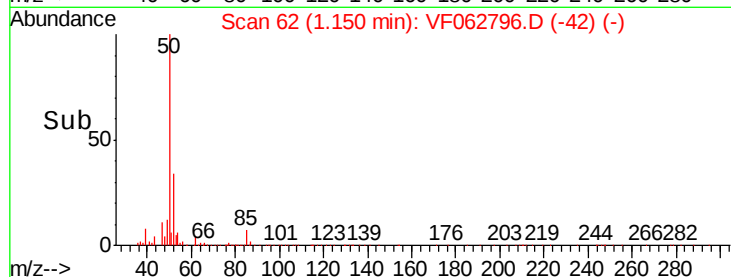
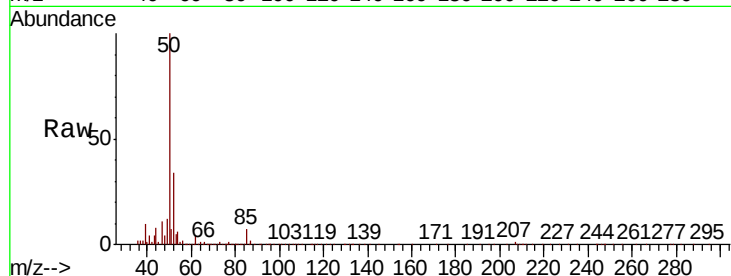
ClientSampleId :

Tot Ion: 50 Resp: 446325

Ion Ratio Lower Upper

50 100

52 33.7 27.0 40.4



#4

Vinyl Chloride

Concen: 46.292 ug/l

RT: 1.20 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062796.D

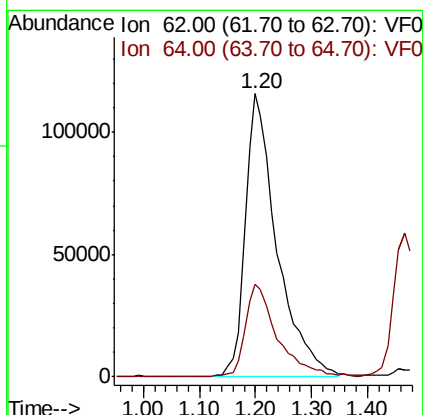
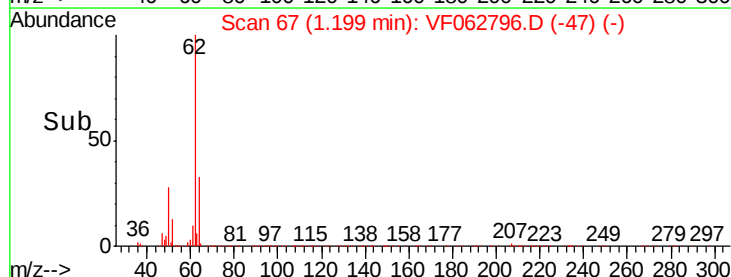
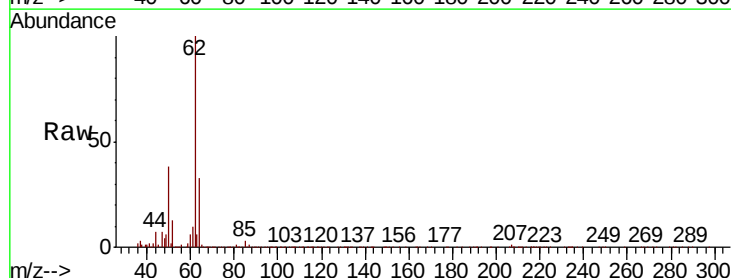
Acq: 30 May 2019 15:31

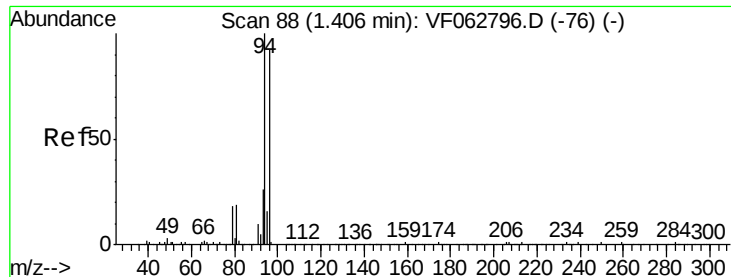
Tgt Ion: 62 Resp: 451199

Ion Ratio Lower Upper

62 100

64 32.7 26.2 39.2





#5

Bromomethane

Concen: 50.416 ug/l

RT: 1.41 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

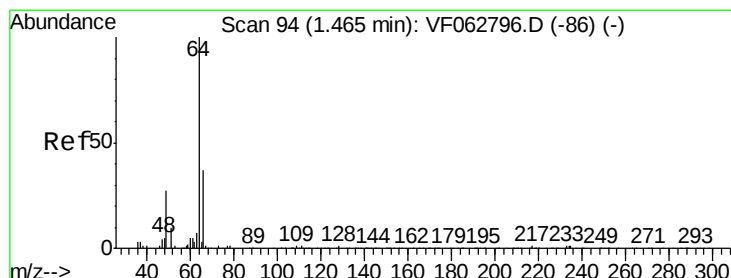
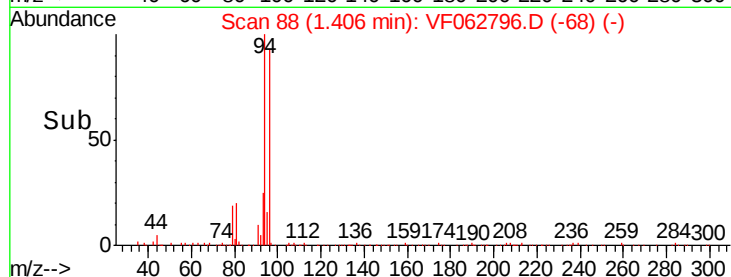
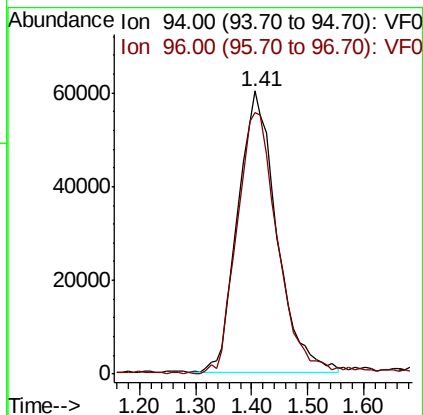
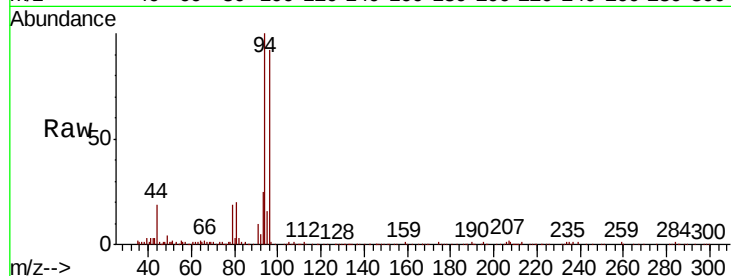
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 94 Resp: 288726

Ion Ratio Lower Upper

94 100

96 92.2 73.8 110.6



#6

Chloroethane

Concen: 51.520 ug/l

RT: 1.47 min Scan# 94

Delta R.T. 0.00 min

Lab File: VF062796.D

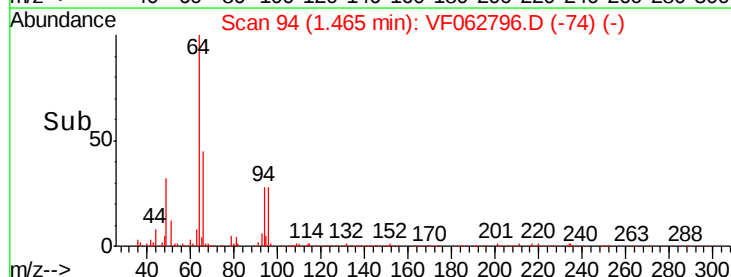
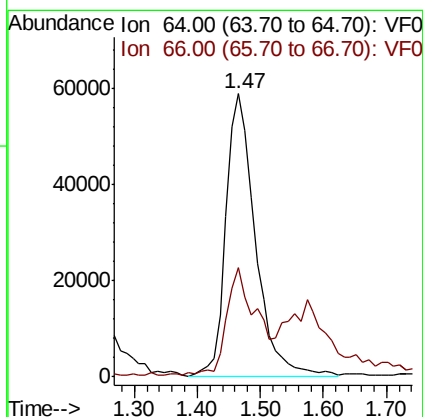
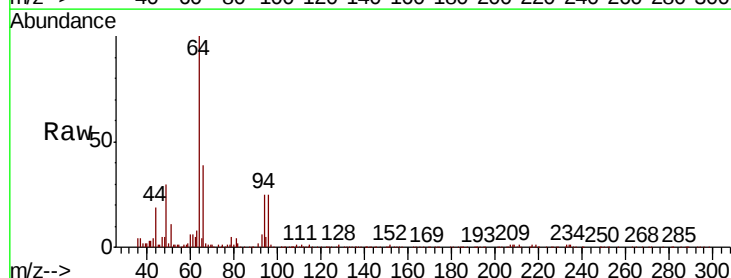
Acq: 30 May 2019 15:31

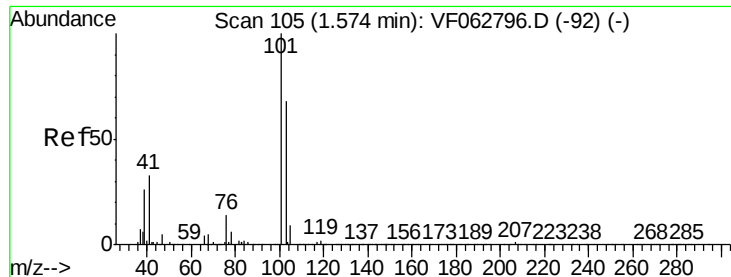
Tgt Ion: 64 Resp: 191437

Ion Ratio Lower Upper

64 100

66 38.7 31.0 46.4



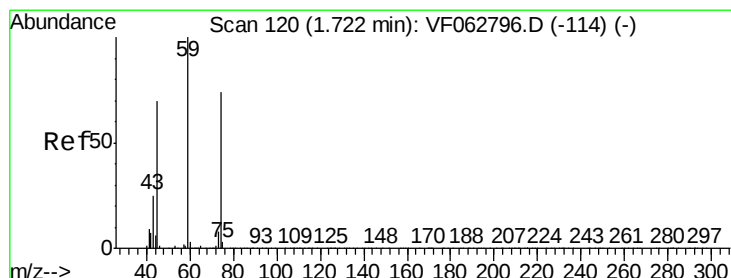
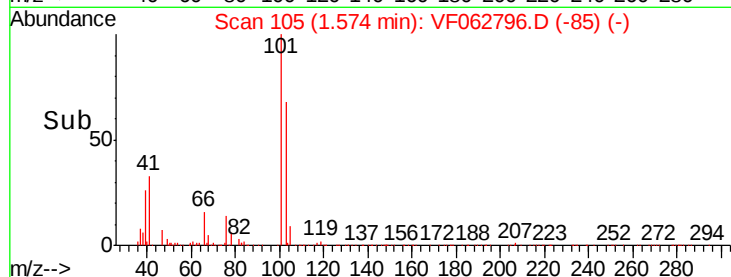
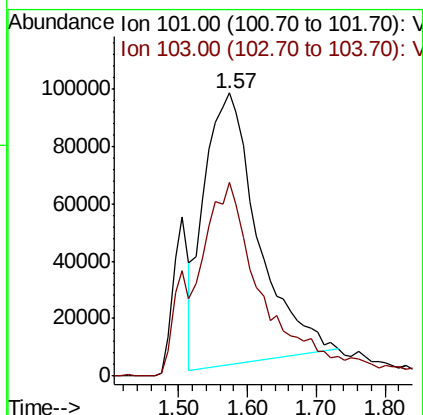
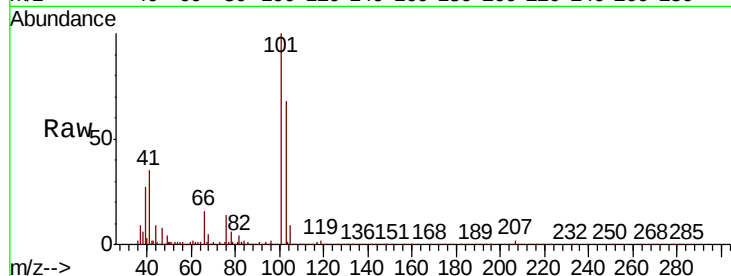


#7

Trichlorofluoromethane  
Concen: 37.386 ug/l  
RT: 1.57 min Scan# 105  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Instrument :  
MSVOA\_F  
ClientSampled :

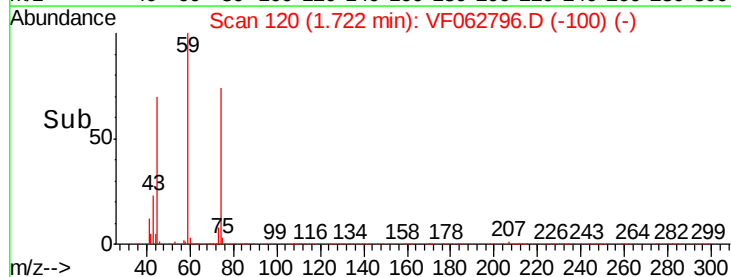
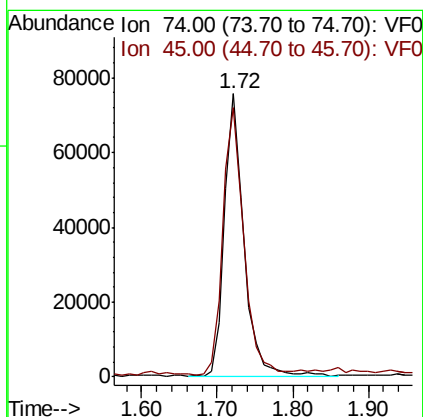
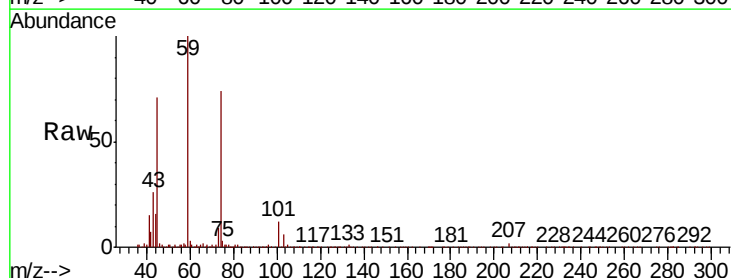
Tot Ion:101 Resp: 512973  
Ion Ratio Lower Upper  
101 100  
103 68.3 54.6 82.0

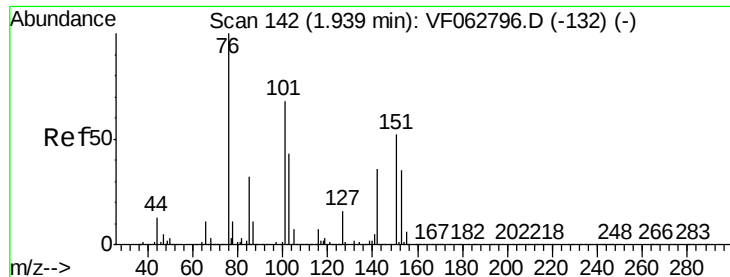


#8

Diethyl Ether  
Concen: 48.837 ug/l  
RT: 1.72 min Scan# 120  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Tgt Ion: 74 Resp: 135239  
Ion Ratio Lower Upper  
74 100  
45 95.0 47.5 142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.011 ug/l

RT: 1.94 min Scan# 142

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

ClientSampleId :

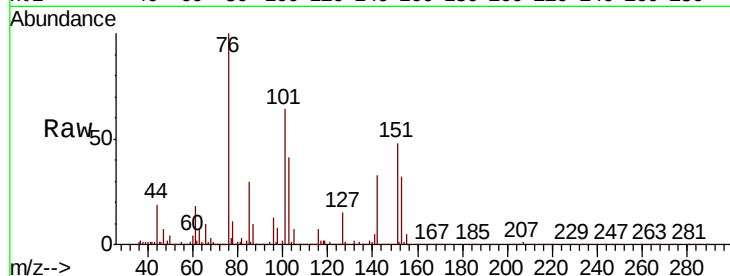
Tot Ion:101 Resp: 409763

Ion Ratio Lower Upper

101 100

85 46.4 37.1 55.7

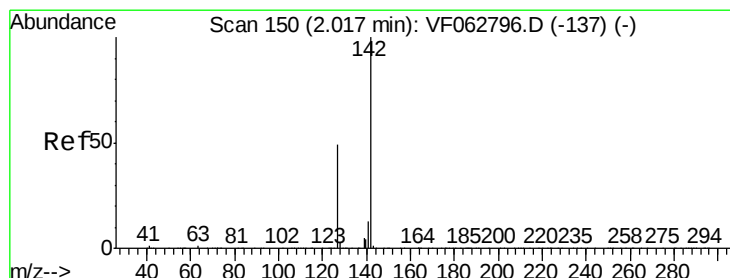
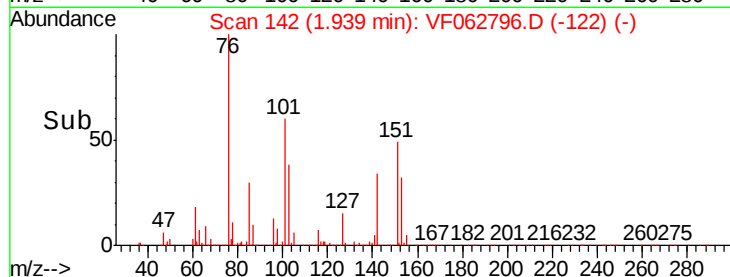
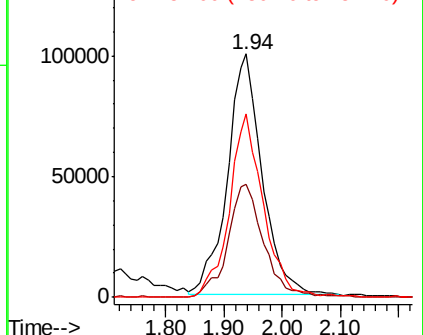
151 75.4 60.3 90.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 39.338 ug/l

RT: 2.02 min Scan# 150

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

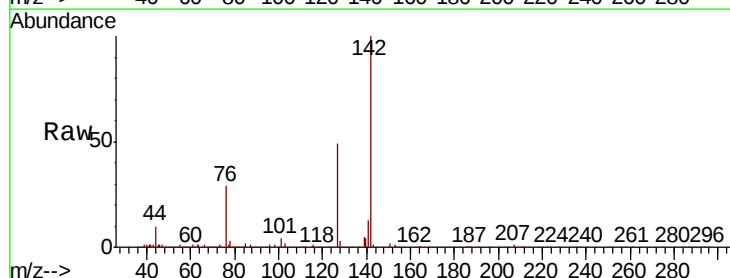
Tgt Ion:142 Resp: 679144

Ion Ratio Lower Upper

142 100

127 49.3 39.4 59.2

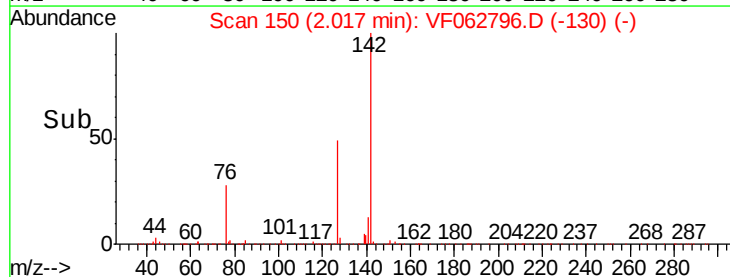
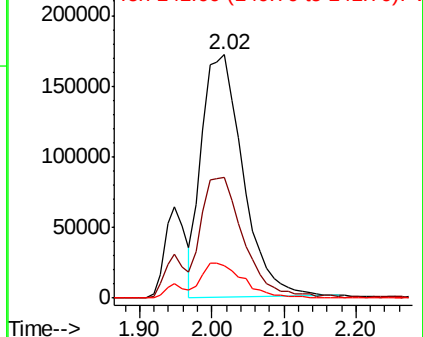
141 13.2 10.6 15.8

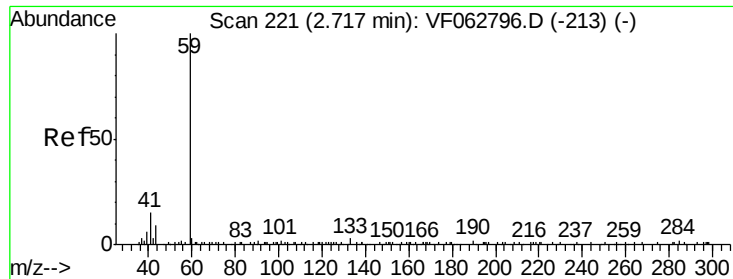


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



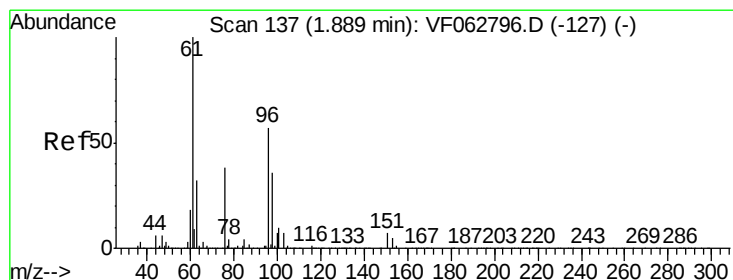
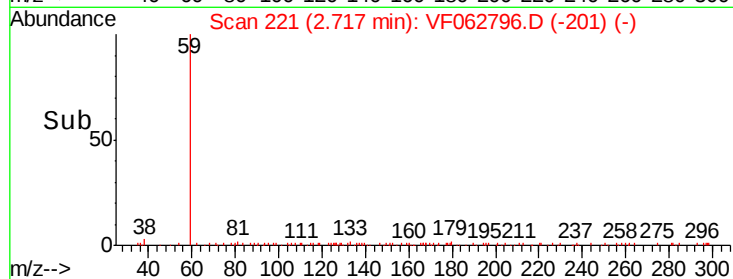
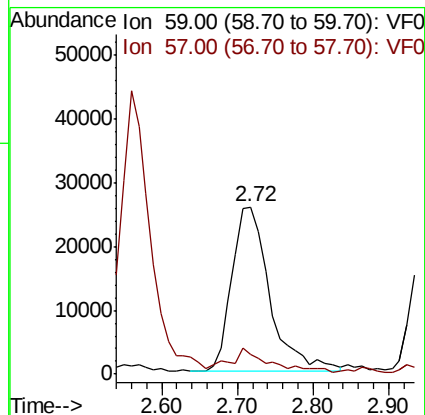
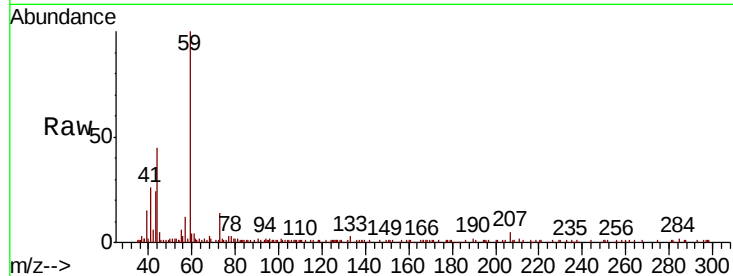


#11

Tert butyl alcohol  
Concen: 225.943 ug/l  
RT: 2.72 min Scan# 221  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Instrument :  
MSVOA\_F  
ClientSampled :

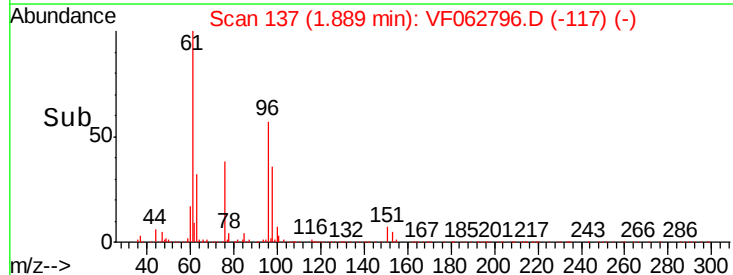
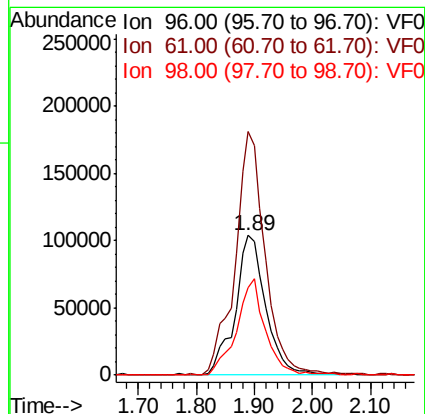
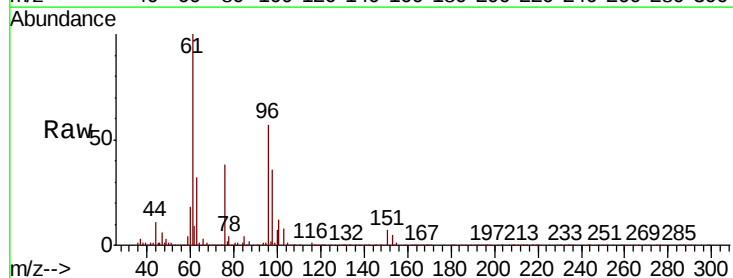
Tot Ion: 59 Resp: 89578  
Ion Ratio Lower Upper  
59 100  
57 11.5 9.2 13.8

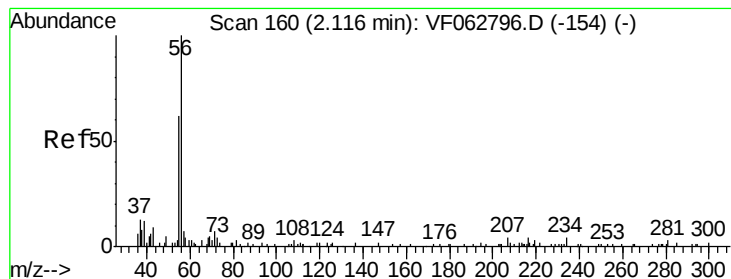


#12

1,1-Dichloroethene  
Concen: 47.592 ug/l  
RT: 1.89 min Scan# 137  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Tgt Ion: 96 Resp: 373498  
Ion Ratio Lower Upper  
96 100  
61 174.3 139.4 209.2  
98 62.9 50.3 75.5





#13

Acrolein

Concen: 232.455 ug/l

RT: 2.12 min Scan# 160

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

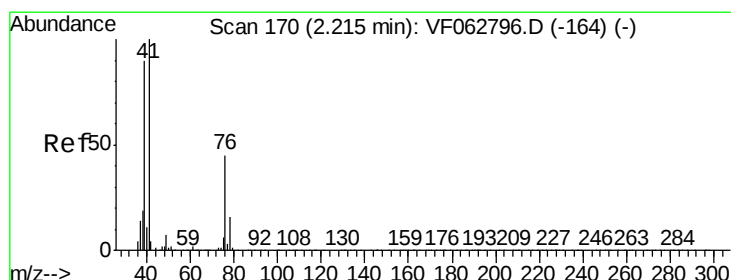
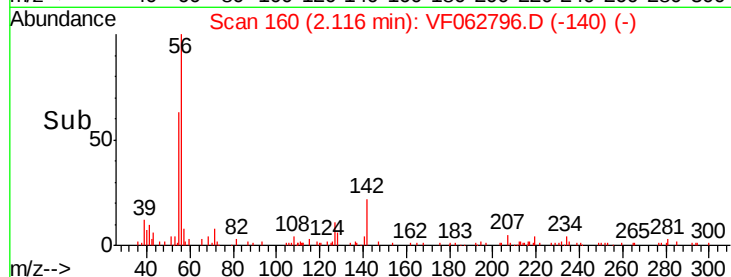
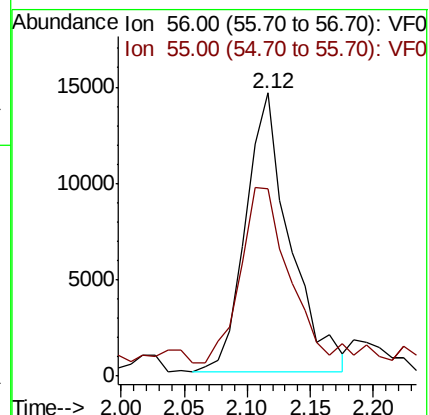
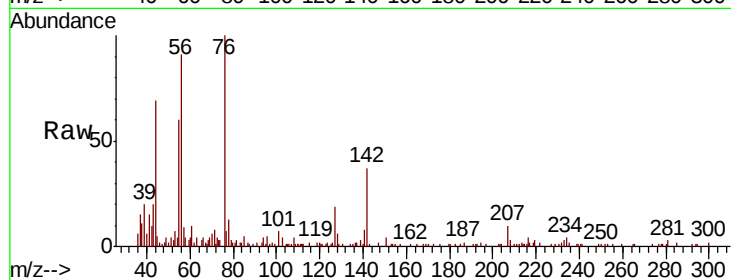
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 56 Resp: 35501

Ion Ratio Lower Upper

56 100

55 66.1 52.9 79.3



#14

Allyl chloride

Concen: 58.518 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

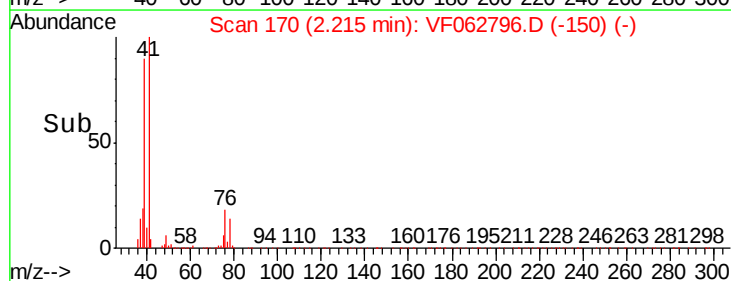
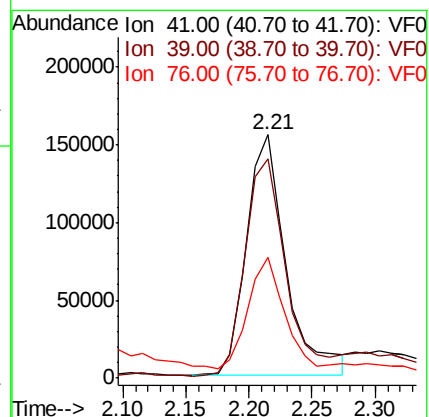
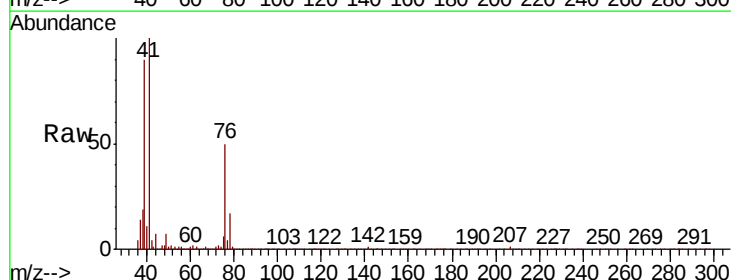
Tgt Ion: 41 Resp: 335496

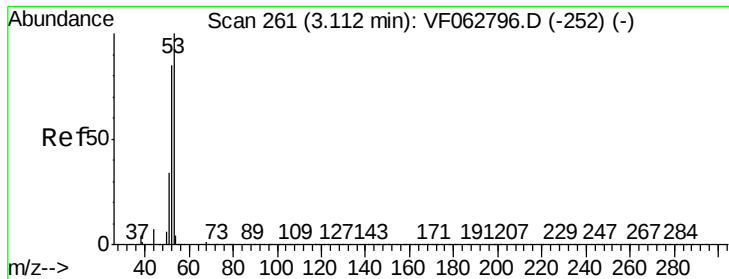
Ion Ratio Lower Upper

41 100

39 89.9 71.9 107.9

76 49.5 39.6 59.4





#15

Acrylonitrile

Concen: 250.317 ug/l

RT: 3.11 min Scan# 261

Delta R.T. 0.00 min

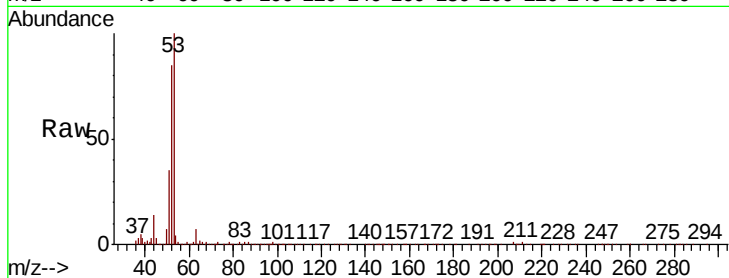
Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 53 Resp: 368759

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 53  | 100   |       |       |
| 52  | 85.1  | 68.1  | 102.1 |
| 51  | 34.6  | 27.7  | 41.5  |

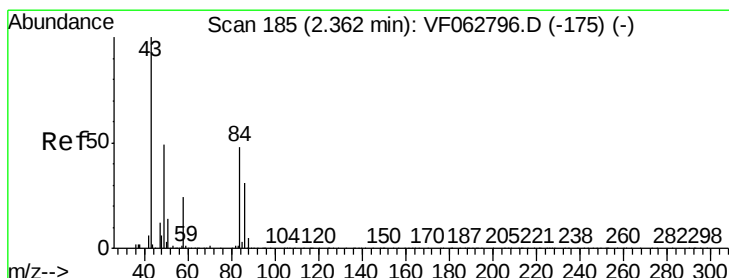
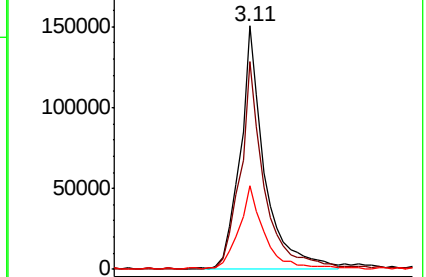
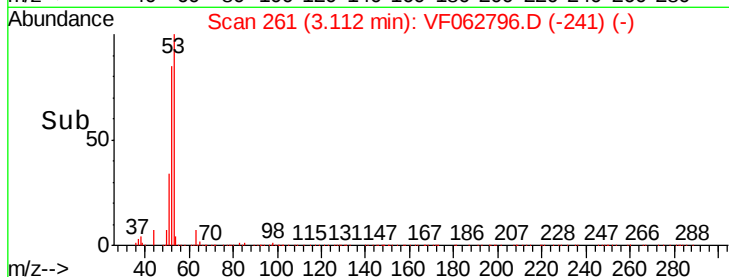


Abundance

Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 256.298 ug/l

RT: 2.36 min Scan# 185

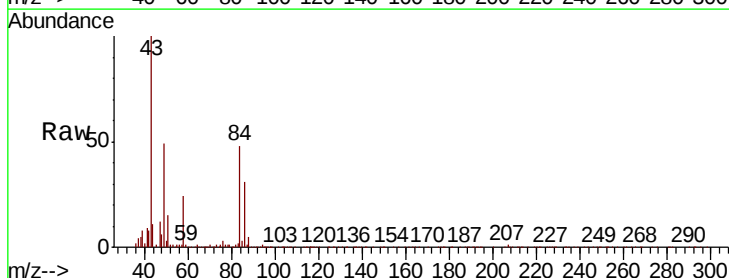
Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Tgt Ion: 43 Resp: 385405

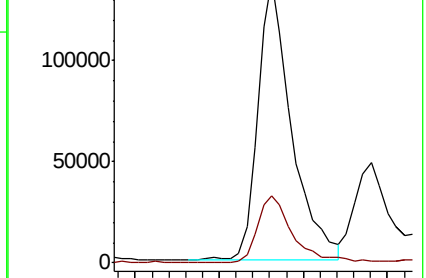
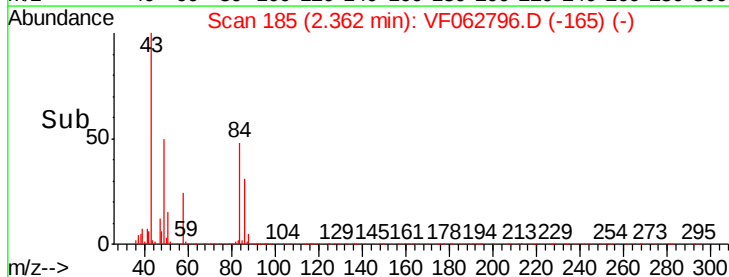
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 23.7  | 19.0  | 28.4  |

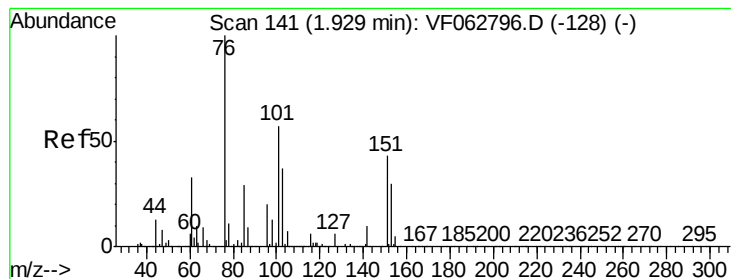


Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 63.953 ug/l

RT: 1.93 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

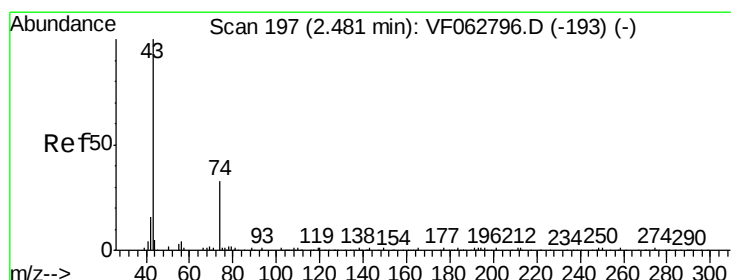
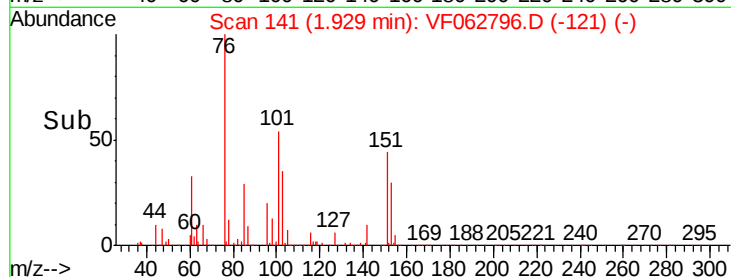
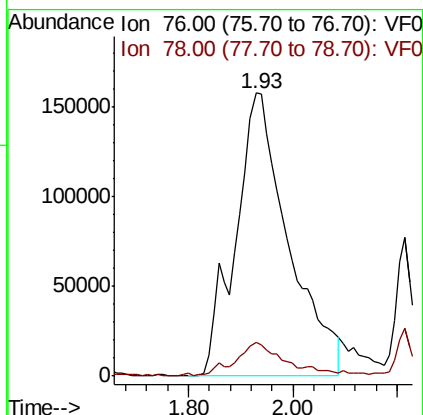
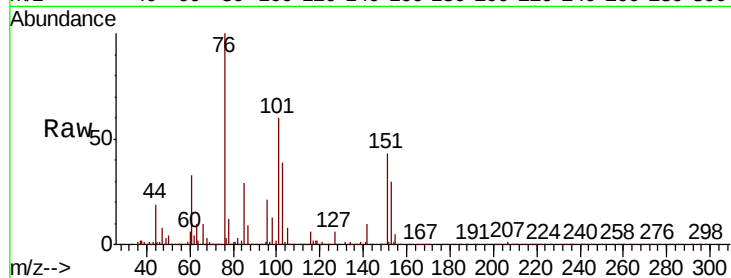
ClientSampleId :

Tot Ion: 76 Resp: 1100048

Ion Ratio Lower Upper

76 100

78 11.8 9.4 14.2



#18

Methyl Acetate

Concen: 41.921 ug/l

RT: 2.48 min Scan# 197

Delta R.T. 0.00 min

Lab File: VF062796.D

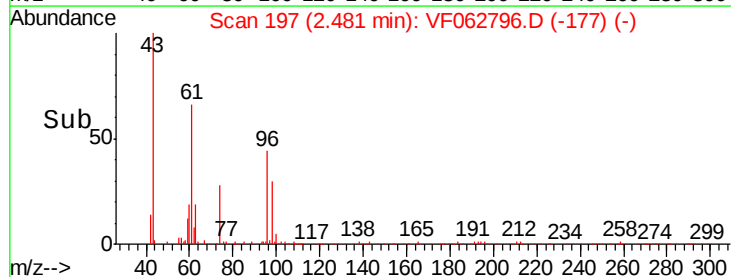
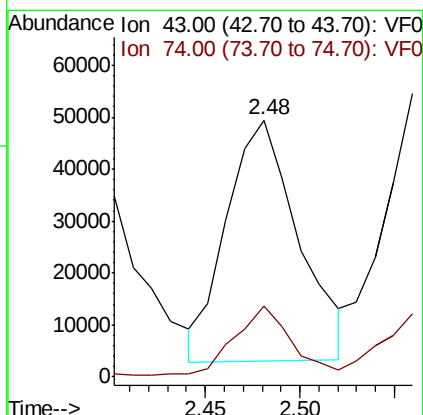
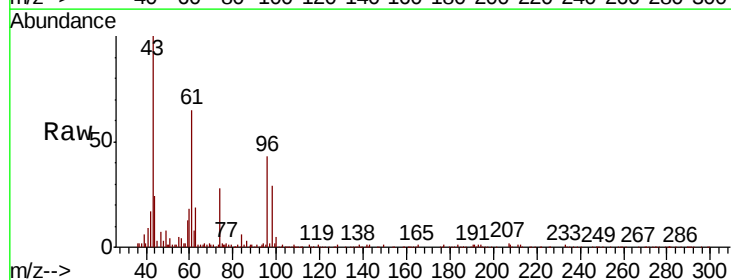
Acq: 30 May 2019 15:31

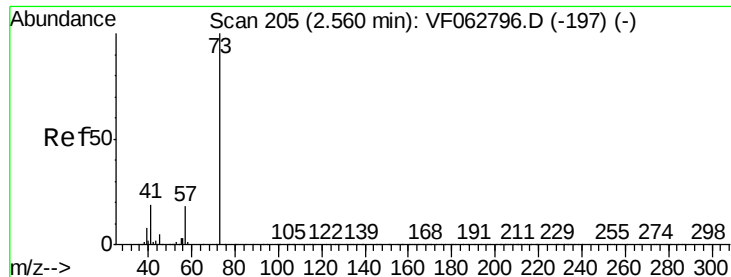
Tgt Ion: 43 Resp: 122504

Ion Ratio Lower Upper

43 100

74 27.6 22.1 33.1



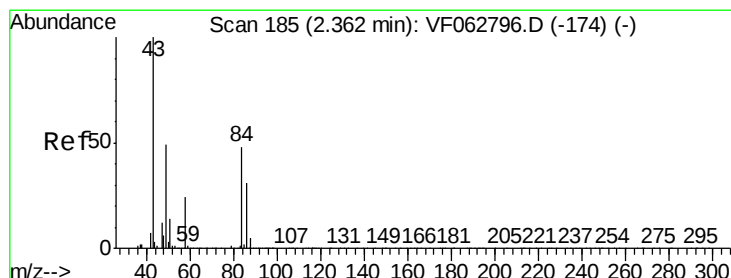
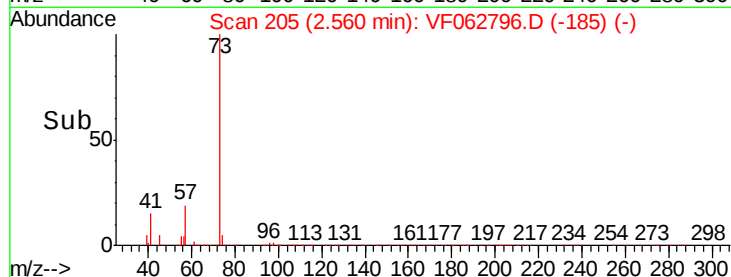
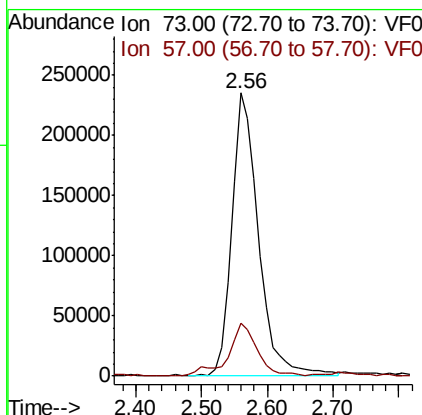
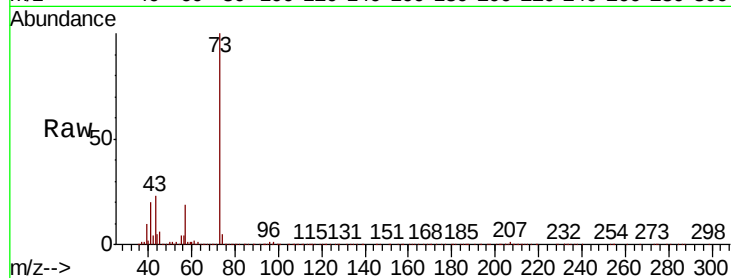


#19

Methyl tert-butyl Ether  
 Concen: 46.650 ug/l  
 RT: 2.56 min Scan# 205  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

Instrument :  
 MSVOA\_F  
 ClientSampleId :

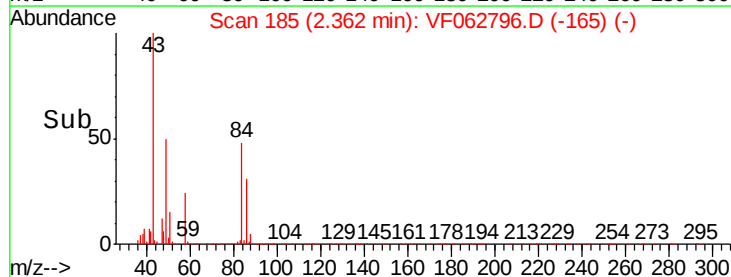
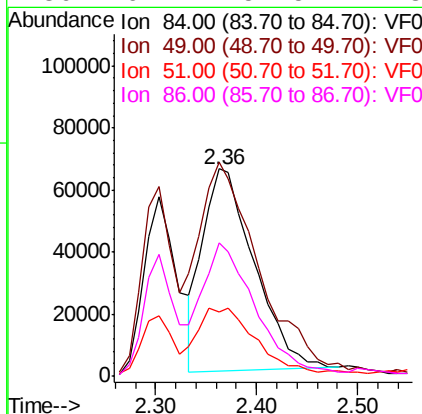
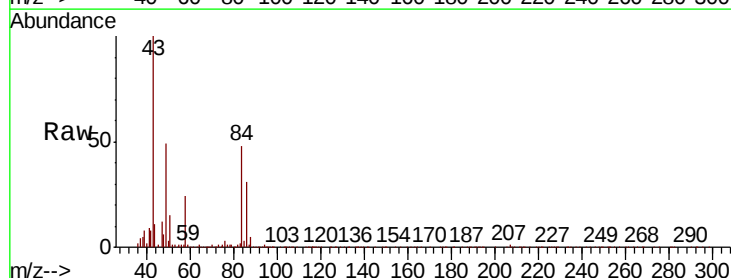
Tot Ion: 73 Resp: 664976  
 Ion Ratio Lower Upper  
 73 100  
 57 18.9 15.1 22.7

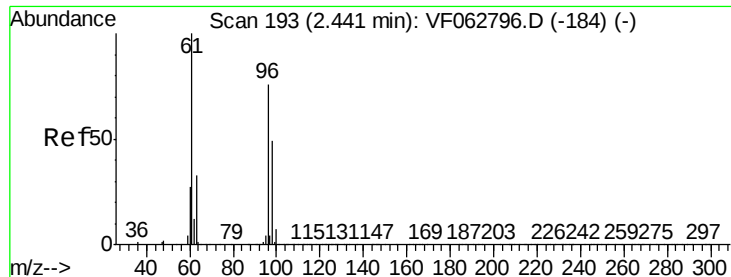


#20

Methylene Chloride  
 Concen: 26.135 ug/l  
 RT: 2.36 min Scan# 185  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

Tgt Ion: 84 Resp: 231397  
 Ion Ratio Lower Upper  
 84 100  
 49 103.2 82.6 123.8  
 51 31.2 25.0 37.4  
 86 64.4 51.5 77.3





#21

trans-1,2-Dichloroethene

Concen: 49.379 ug/l

RT: 2.44 min Scan# 193

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :  
MSVOA\_F  
ClientSampleId :

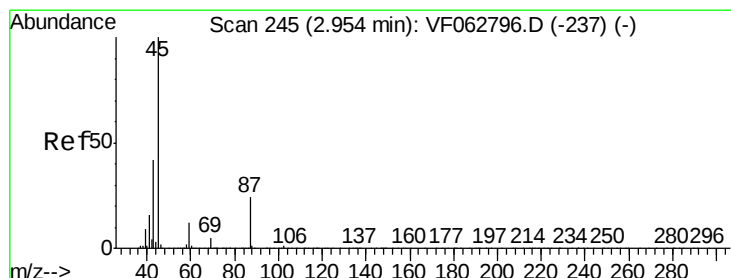
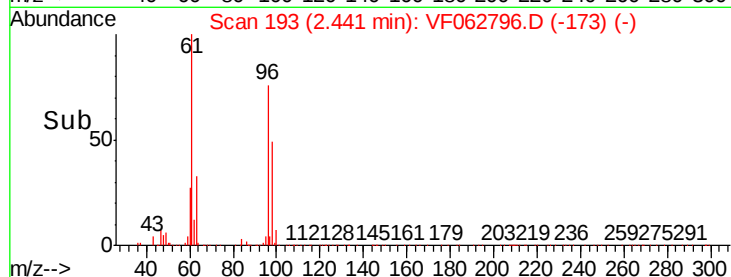
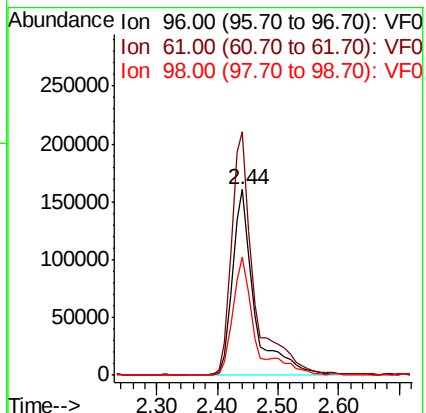
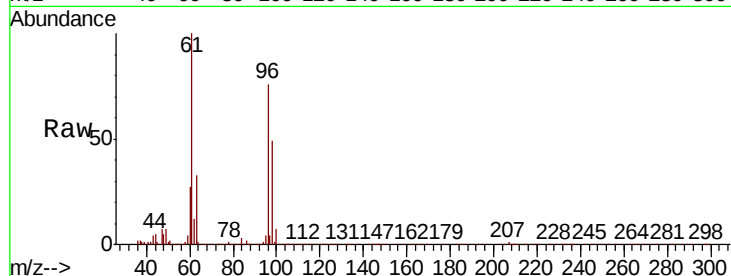
Tot Ion: 96 Resp: 404068

Ion Ratio Lower Upper

96 100

61 131.3 105.0 157.6

98 63.9 51.1 76.7



#22

Diisopropyl ether

Concen: 49.192 ug/l

RT: 2.95 min Scan# 245

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Tgt Ion: 45 Resp: 828745

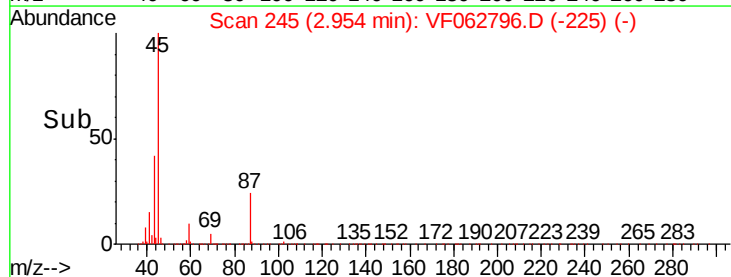
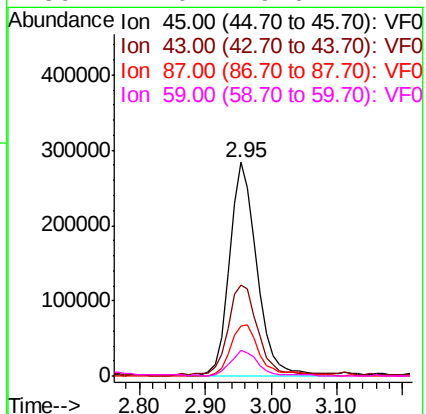
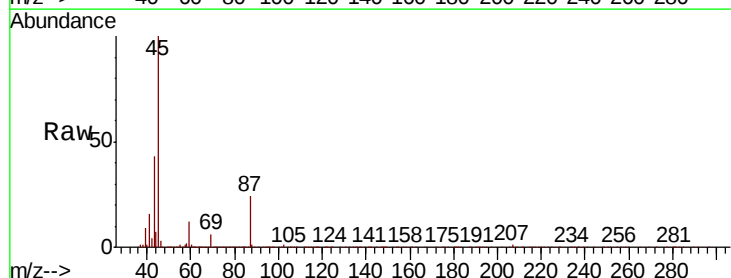
Ion Ratio Lower Upper

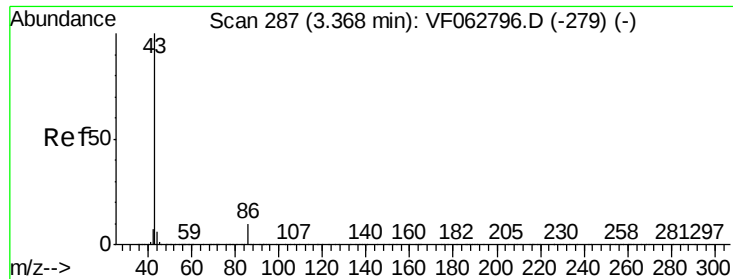
45 100

43 42.9 34.3 51.5

87 23.7 19.0 28.4

59 12.0 9.6 14.4

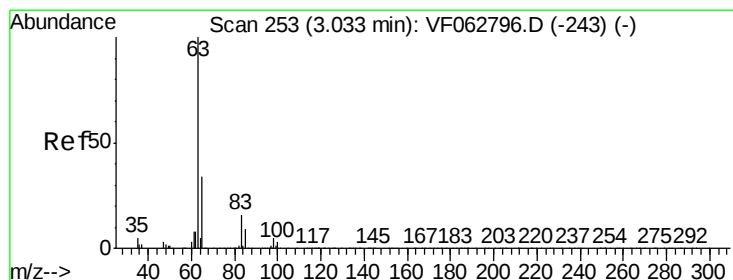
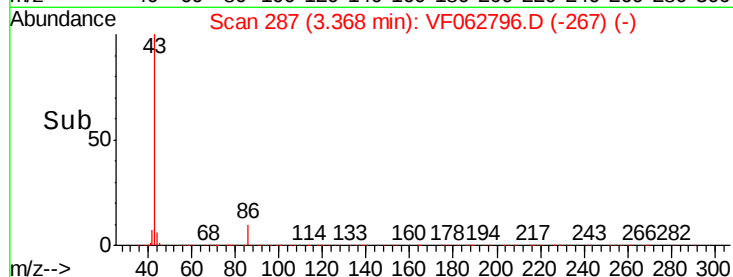
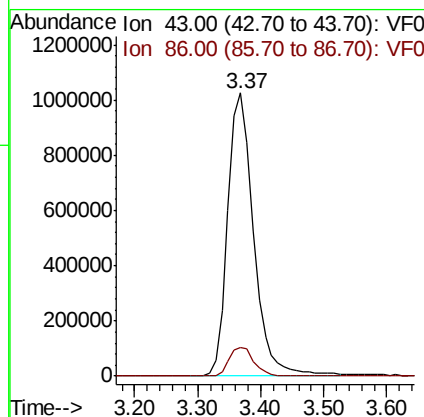
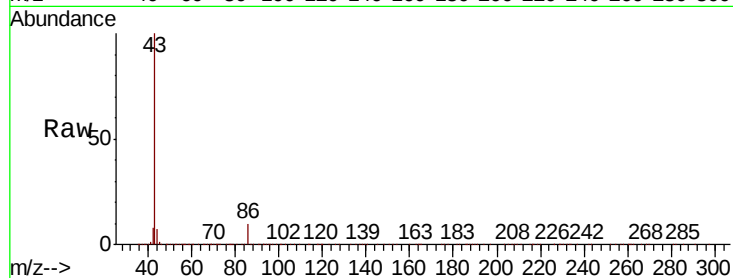




#23  
 Vinyl Acetate  
 Concen: 234.697 ug/l  
 RT: 3.37 min Scan# 287  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

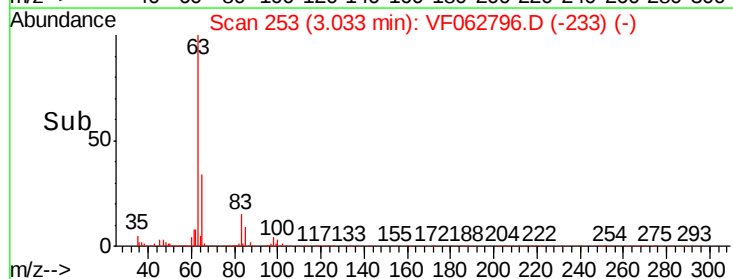
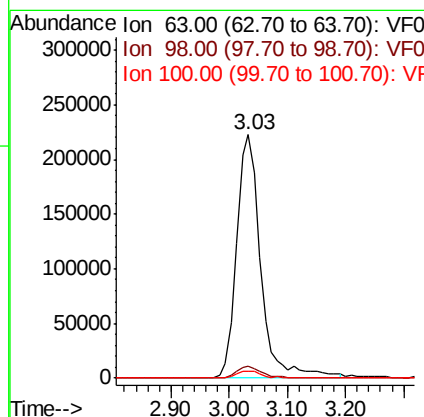
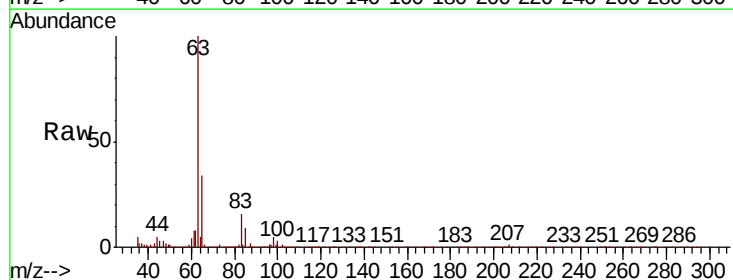
Instrument :  
 MSVOA\_F  
 ClientSampleId :

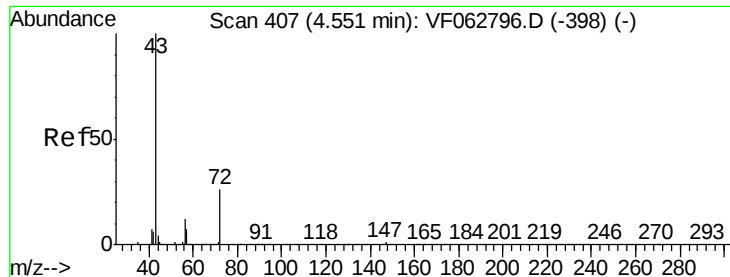
Tot Ion: 43 Resp: 2910988  
 Ion Ratio Lower Upper  
 43 100  
 86 10.2 8.2 12.2



#24  
 1,1-Dichloroethane  
 Concen: 50.036 ug/l  
 RT: 3.03 min Scan# 253  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

Tgt Ion: 63 Resp: 639049  
 Ion Ratio Lower Upper  
 63 100  
 98 4.7 2.4 7.1  
 100 3.0 1.5 4.5





#25

2-Butanone

Concen: 228.229 ug/l

RT: 4.55 min Scan# 407

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

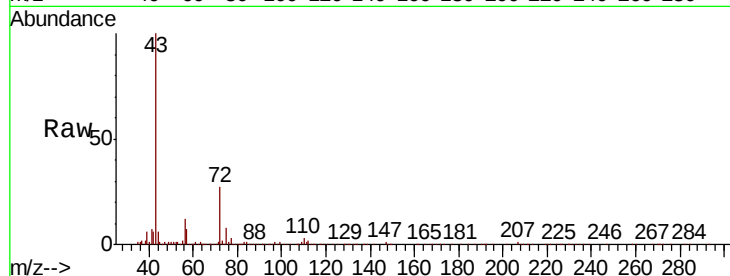
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 43 Resp: 815246

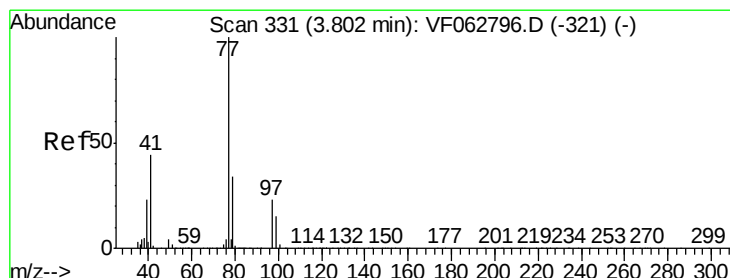
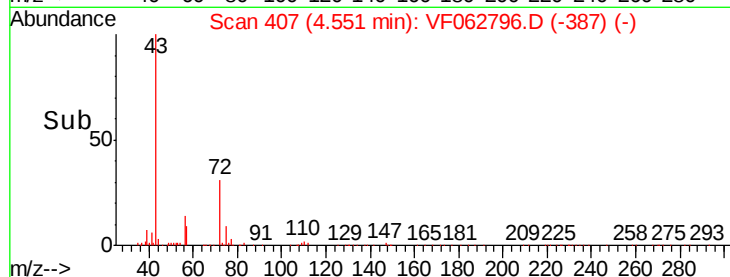
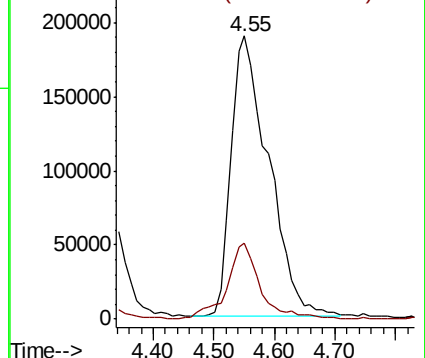
Ion Ratio Lower Upper

43 100

72 26.7 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VF0  
Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 47.088 ug/l

RT: 3.80 min Scan# 331

Delta R.T. 0.00 min

Lab File: VF062796.D

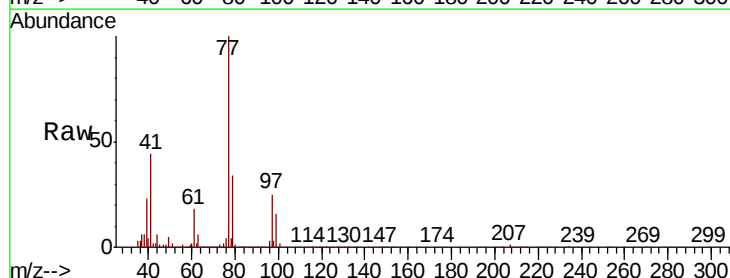
Acq: 30 May 2019 15:31

Tgt Ion: 77 Resp: 355531

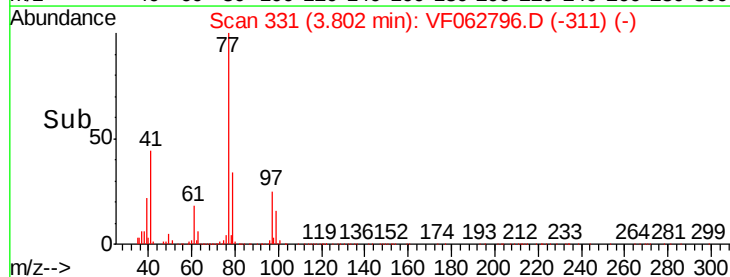
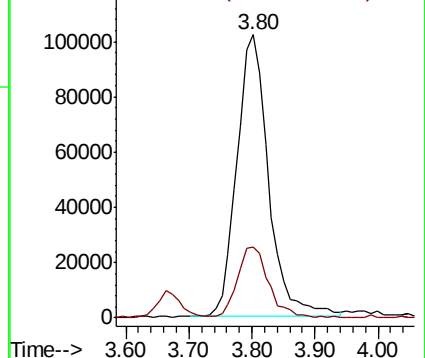
Ion Ratio Lower Upper

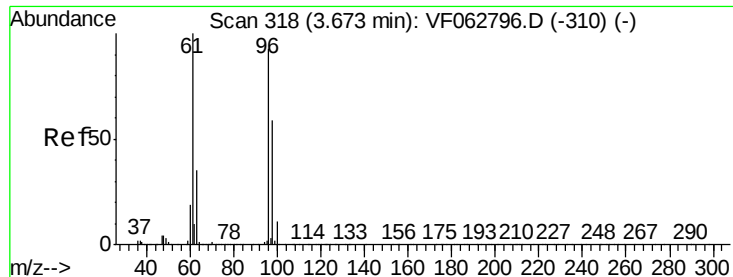
77 100

97 24.9 12.4 37.4



Abundance Ion 77.00 (76.70 to 77.70): VF0  
Ion 97.00 (96.70 to 97.70): VF0



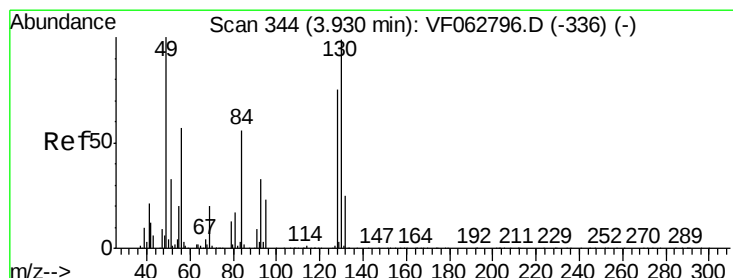
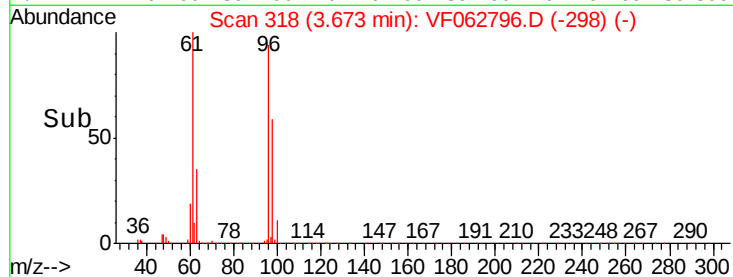
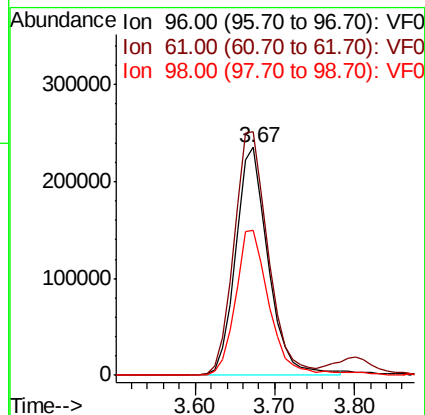
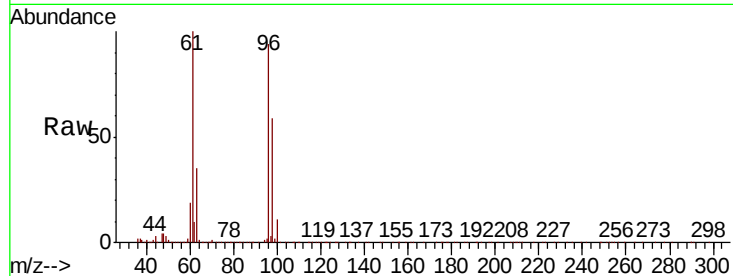


#27

cis-1,2-Dichloroethene  
Concen: 50.297 ug/l  
RT: 3.67 min Scan# 318  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Instrument :  
MSVOA\_F  
ClientSampleId :

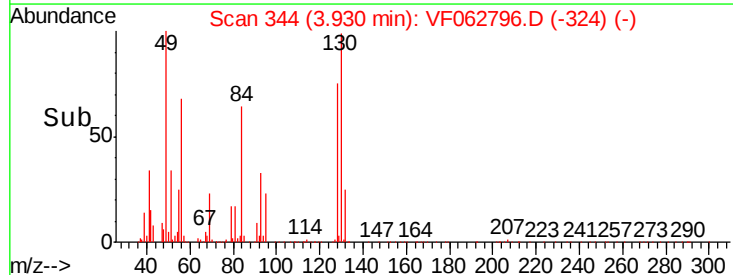
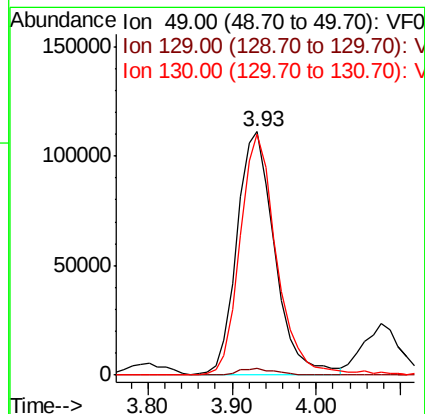
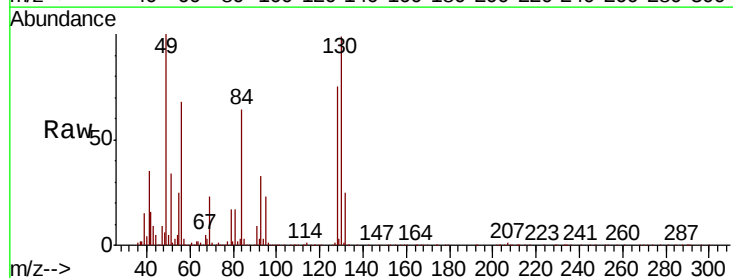
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 106.9 | 0.0   | 213.8 |
| 98      | 63.5  | 0.0   | 127.0 |

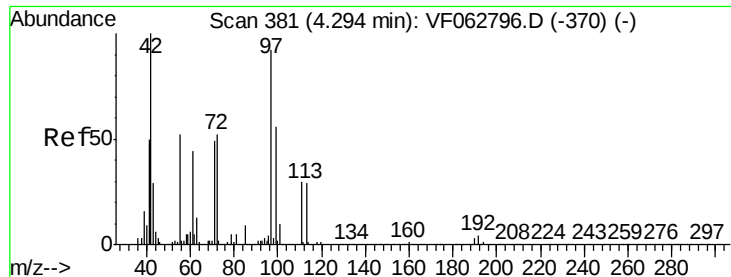


#28

Bromochloromethane  
Concen: 47.872 ug/l  
RT: 3.93 min Scan# 344  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.7   | 0.0   | 5.4   |
| 130     | 99.0  | 79.2  | 118.8 |

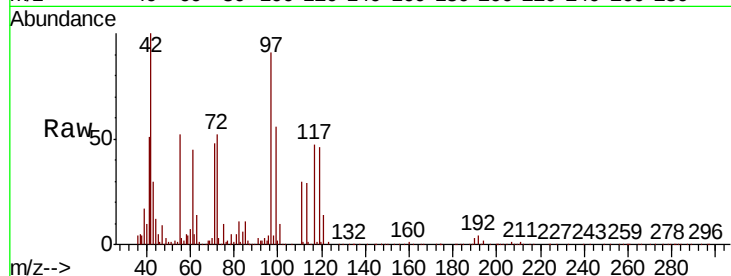




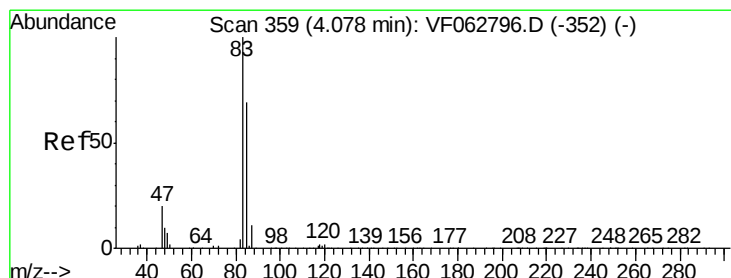
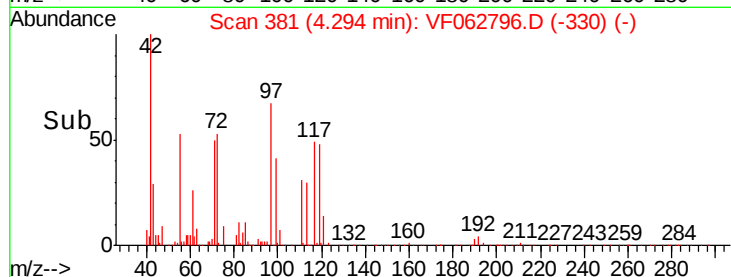
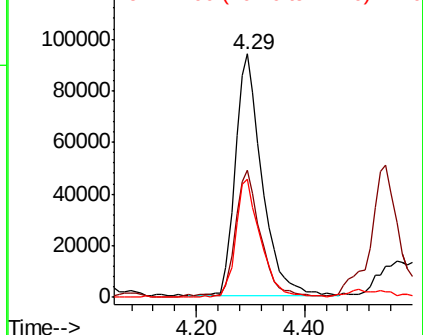
#29  
Tetrahydrofuran  
Concen: 242.622 ug/l  
RT: 4.29 min Scan# 381  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Instrument :  
MSVOA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 48.8  | 39.0  | 58.6  |
| 71      | 46.1  | 36.9  | 55.3  |

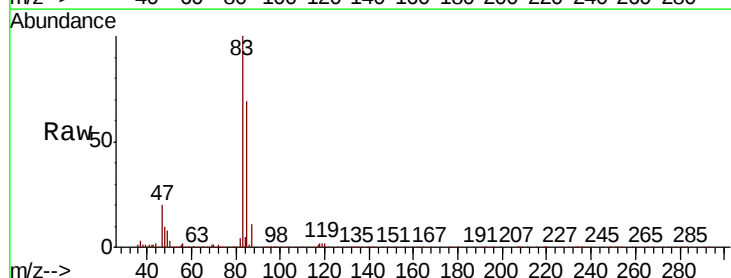


Abundance Ion 42.00 (41.70 to 42.70): VF0  
Ion 72.00 (71.70 to 72.70): VF0  
Ion 71.00 (70.70 to 71.70): VF0

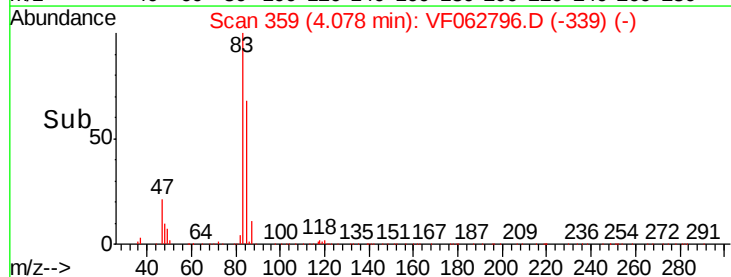
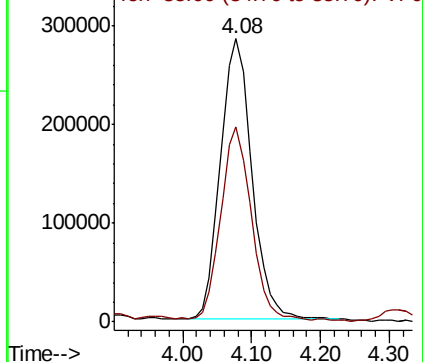


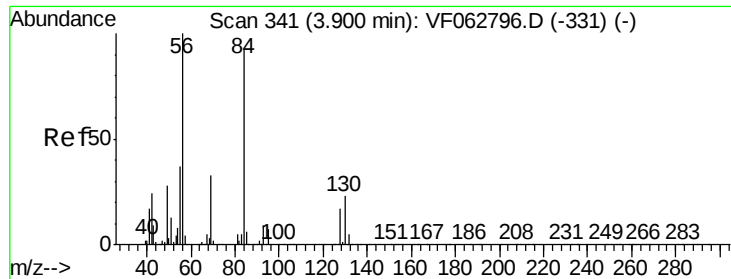
#30  
Chloroform  
Concen: 48.070 ug/l  
RT: 4.08 min Scan# 359  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 68.8  | 55.0  | 82.6  |



Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 85.00 (84.70 to 85.70): VF0

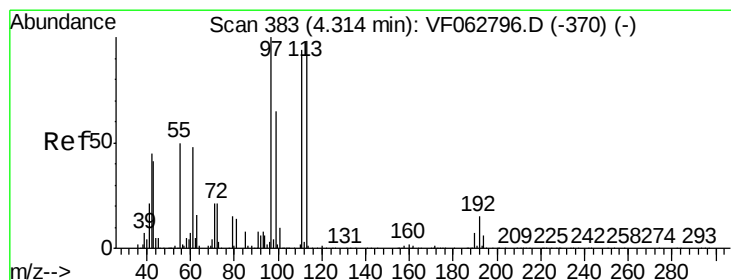
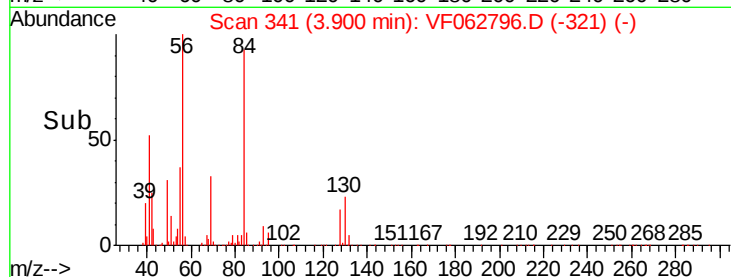
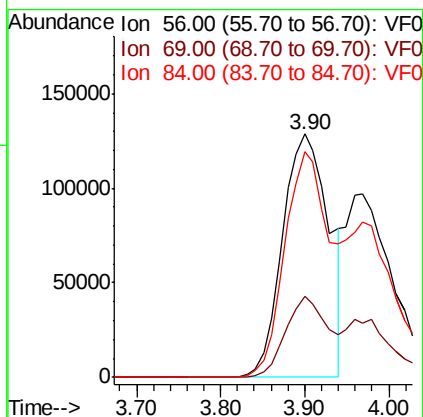
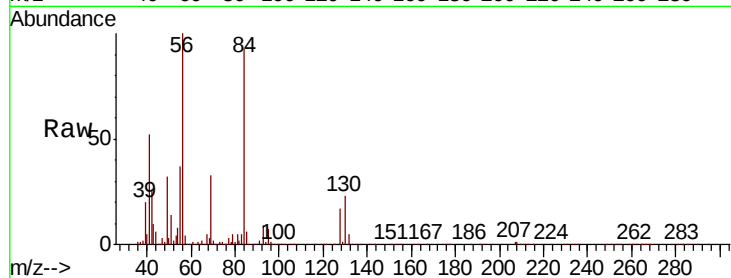




#31  
Cyclohexane  
Concen: 27.687 ug/l  
RT: 3.90 min Scan# 341  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

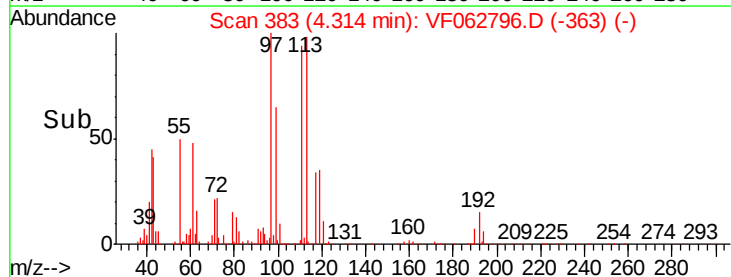
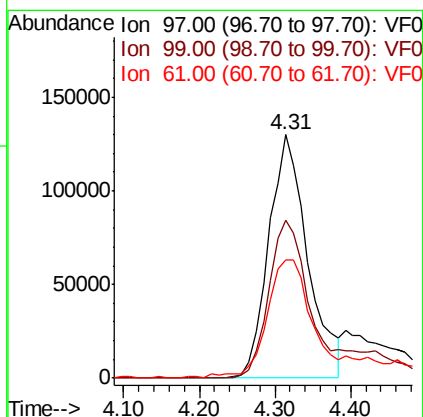
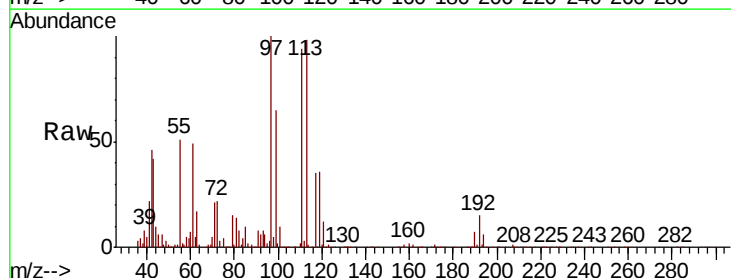
Instrument :  
MSVOA\_F  
ClientSampleId :

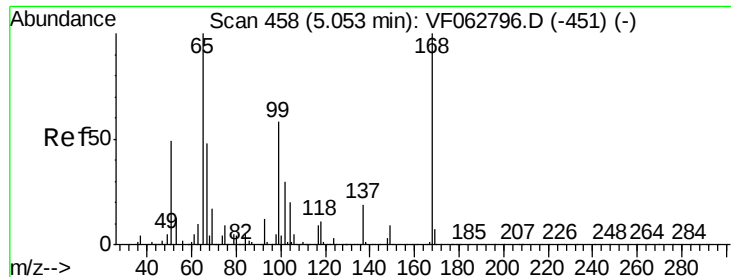
Tot Ion: 56 Resp: 491506  
Ion Ratio Lower Upper  
56 100  
69 33.4 26.7 40.1  
84 92.9 74.3 111.5



#32  
1,1,1-Trichloroethane  
Concen: 45.331 ug/l  
RT: 4.31 min Scan# 383  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Tgt Ion: 97 Resp: 468179  
Ion Ratio Lower Upper  
97 100  
99 64.6 51.7 77.5  
61 48.6 38.9 58.3





#33

1,2-Dichloroethane-d4

Concen: 51.873 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

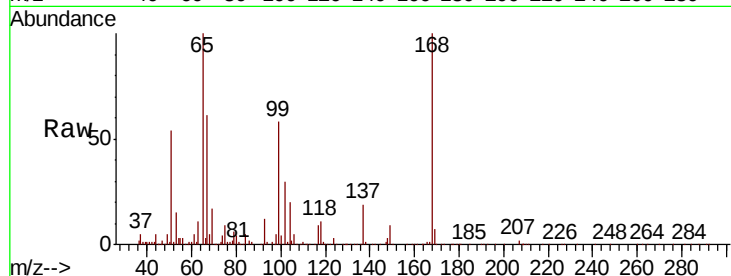
ClientSampled :

Tot Ion: 65 Resp: 335377

Ion Ratio Lower Upper

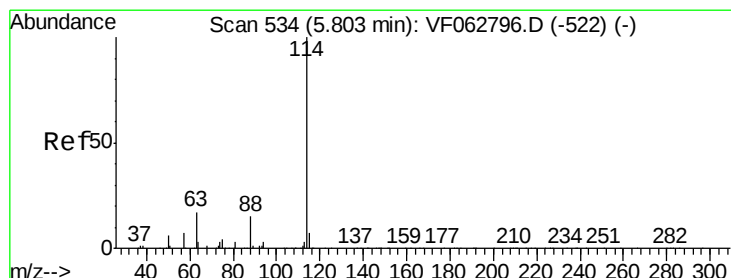
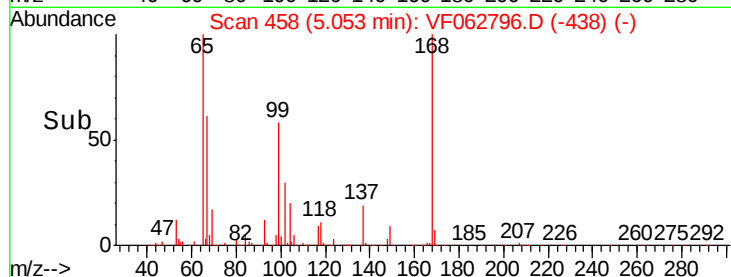
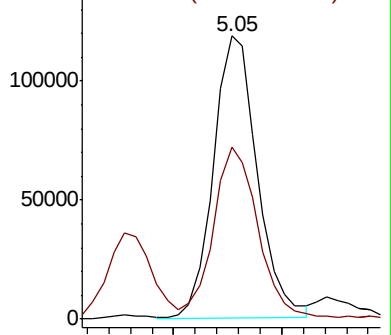
65 100

67 60.6 0.0 121.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

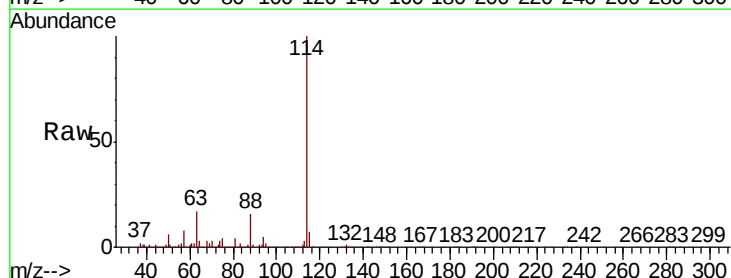
Tgt Ion: 114 Resp: 1501506

Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.2

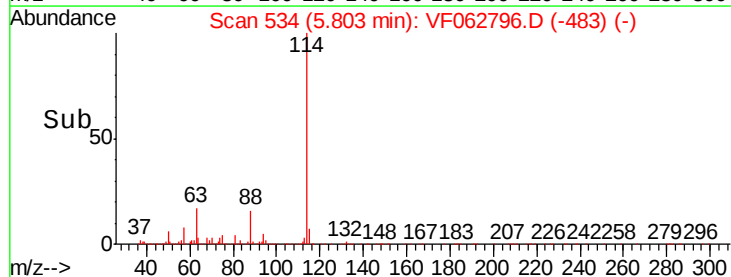
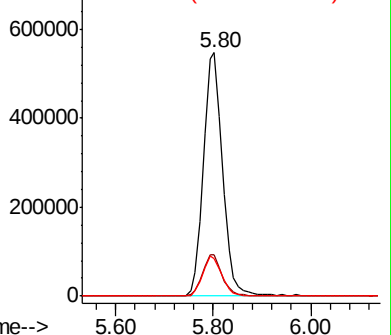
88 15.6 0.0 31.2

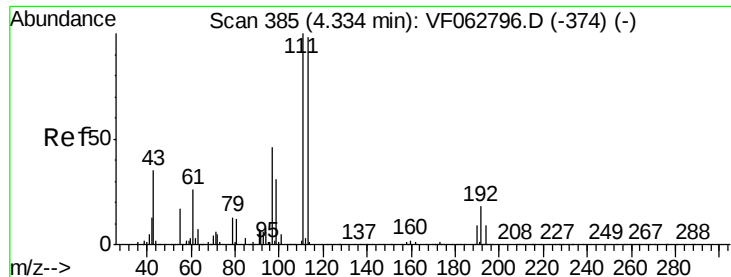


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

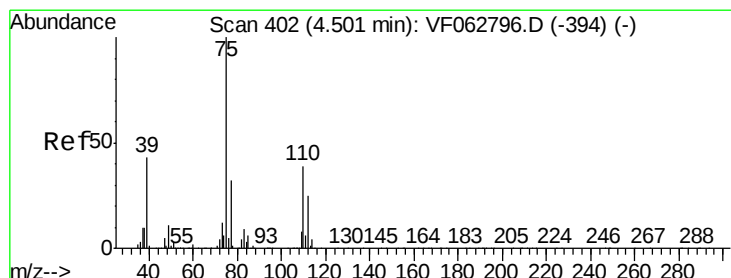
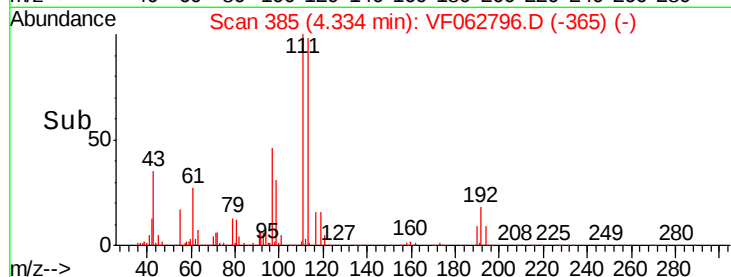
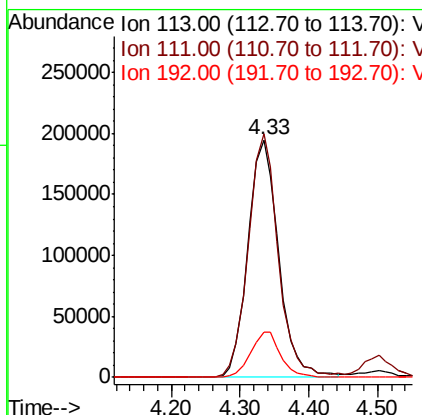
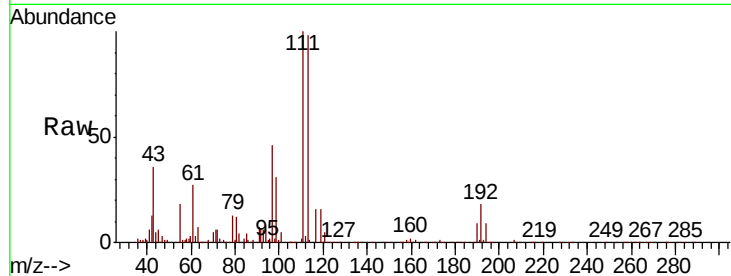




#35  
 Dibromofluoromethane  
 Concen: 51.975 ug/l  
 RT: 4.33 min Scan# 385  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

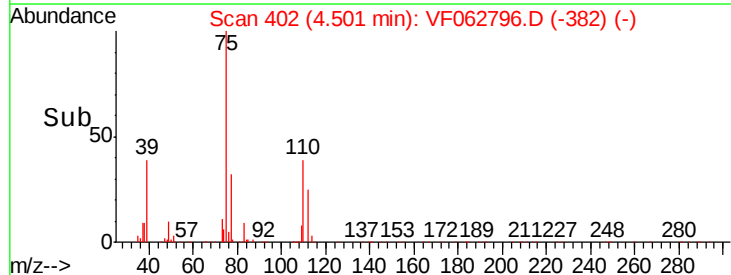
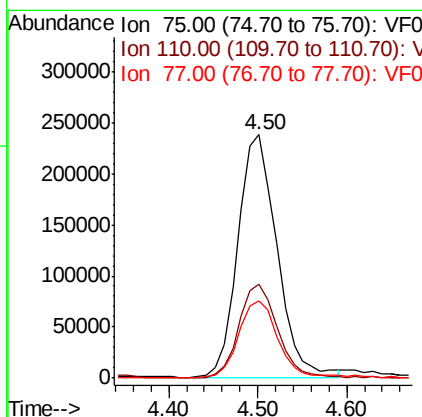
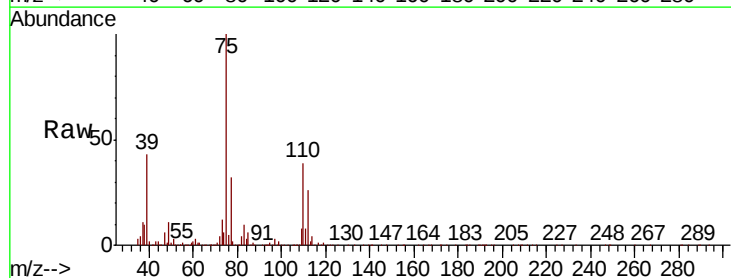
Instrument :  
 MSVOA\_F  
 ClientSampled :

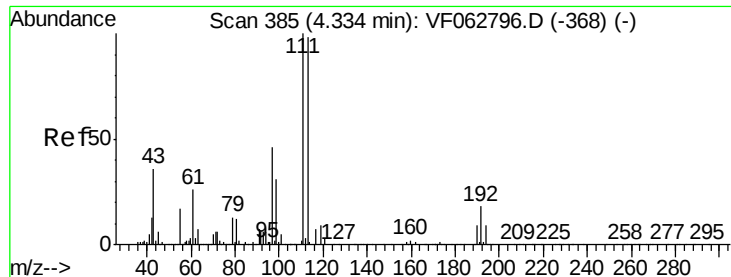
Tot Ion:113 Resp: 606323  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.9 122.9  
 192 18.9 15.1 22.7



#36  
 1,1-Dichloropropene  
 Concen: 49.257 ug/l  
 RT: 4.50 min Scan# 402  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

Tgt Ion: 75 Resp: 721049  
 Ion Ratio Lower Upper  
 75 100  
 110 38.7 19.4 58.1  
 77 31.8 25.4 38.2

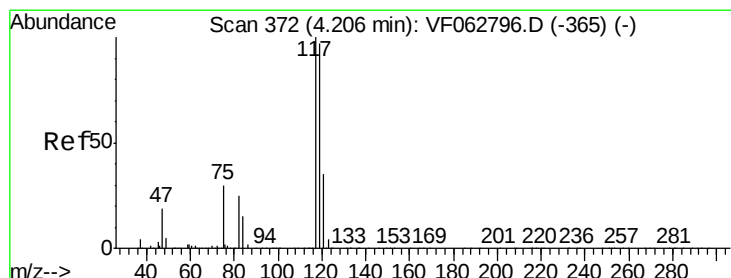
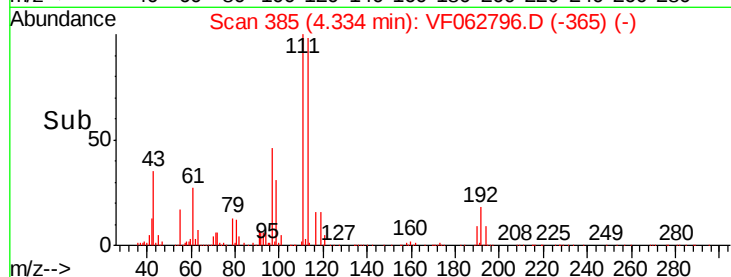
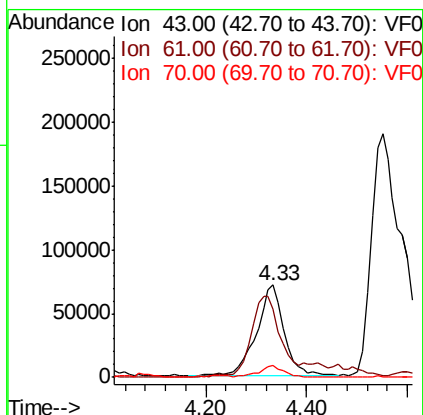
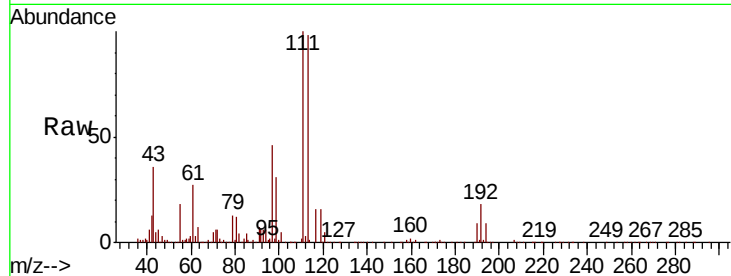




#37  
Ethyl Acetate  
Concen: 46.727 ug/l  
RT: 4.33 min Scan# 385  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

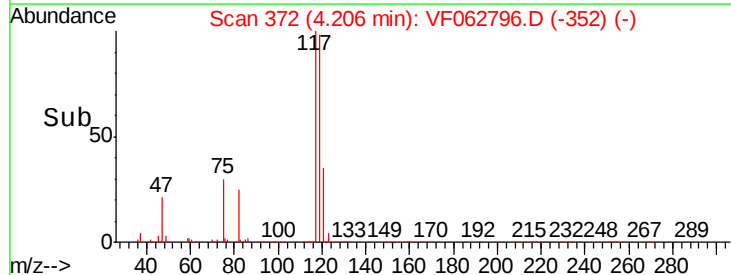
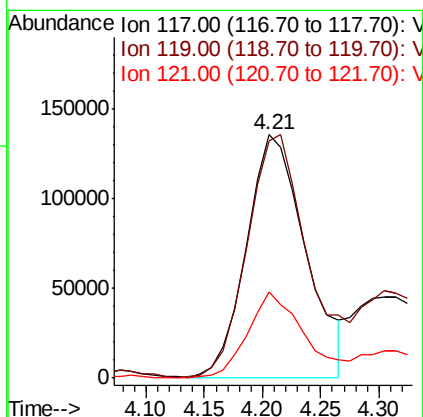
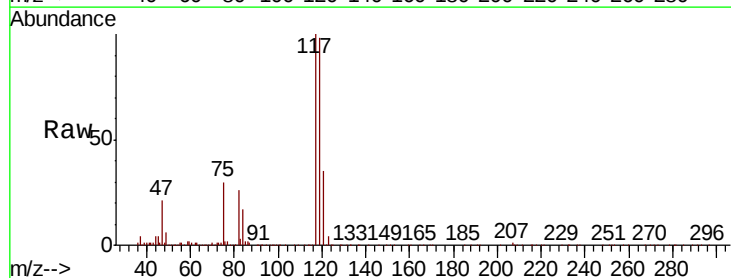
Instrument :  
MSVOA\_F  
ClientSampleId :

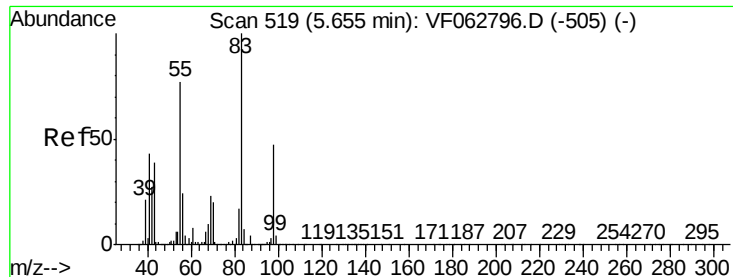
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 73.9  | 59.1  | 88.7  |
| 70      | 12.6  | 10.1  | 15.1  |



#38  
Carbon Tetrachloride  
Concen: 48.638 ug/l  
RT: 4.21 min Scan# 372  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 97.7  | 78.2  | 117.2 |
| 121     | 35.2  | 28.2  | 42.2  |

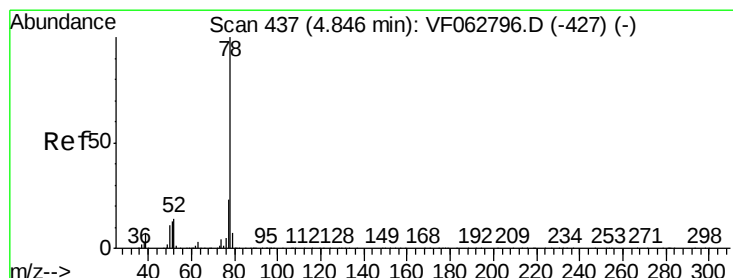
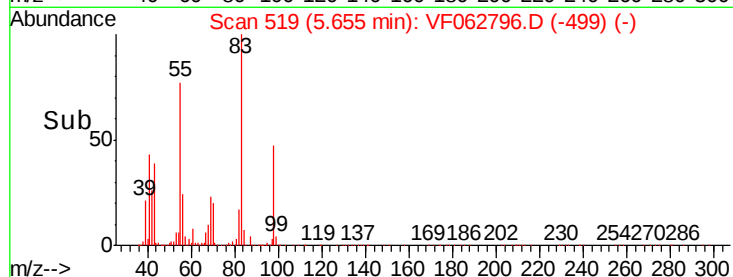
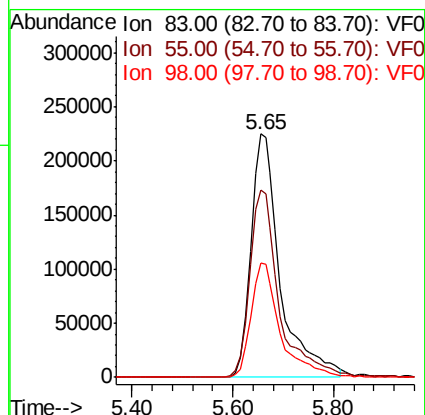
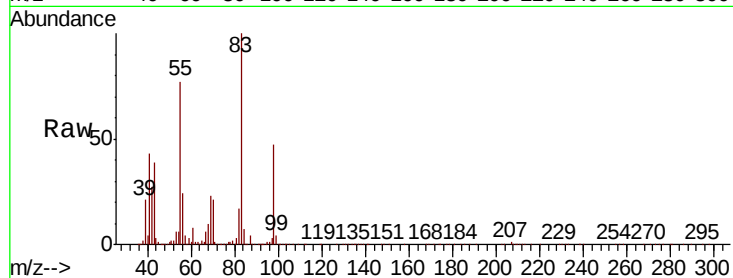




#39  
Methvlcvclohexane  
Concen: 50.969 ug/l  
RT: 5.65 min Scan# 519  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

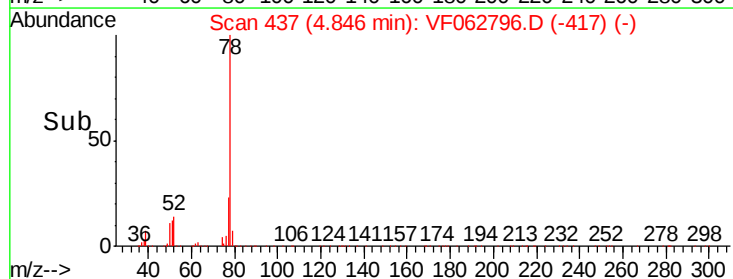
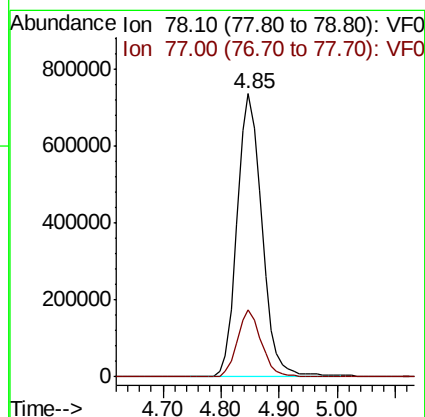
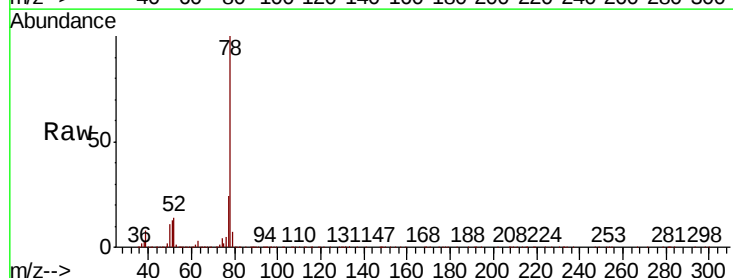
Instrument :  
MSVOA\_F  
ClientSampleId :

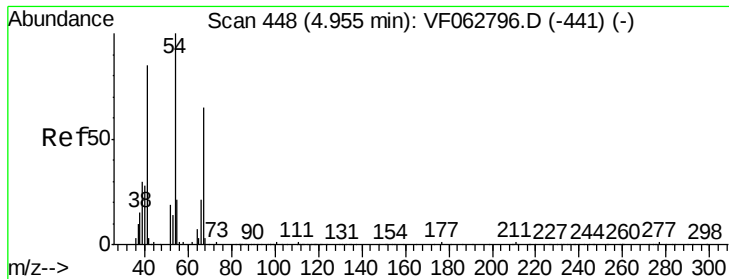
Tot Ion: 83 Resp: 909669  
Ion Ratio Lower Upper  
83 100  
55 77.0 61.6 92.4  
98 46.8 37.4 56.2



#40  
Benzene  
Concen: 50.770 ug/l  
RT: 4.85 min Scan# 437  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Tgt Ion: 78 Resp: 2192644  
Ion Ratio Lower Upper  
78 100  
77 23.6 18.9 28.3

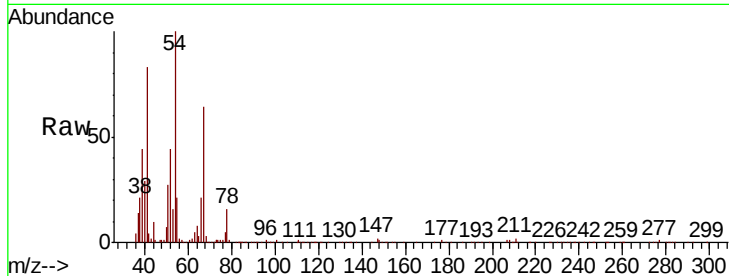




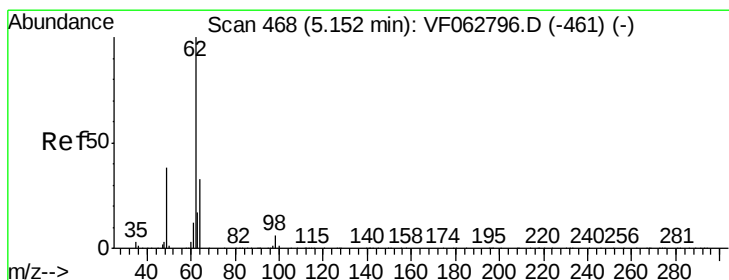
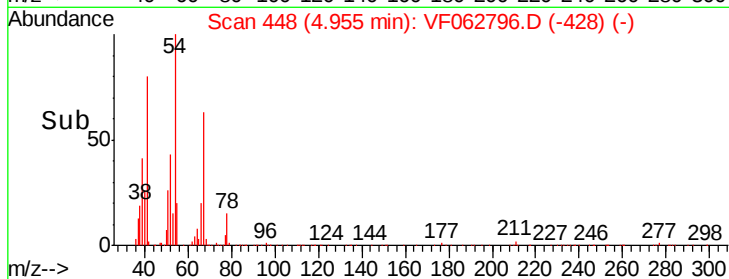
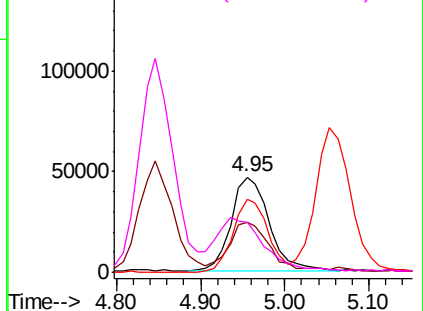
#41  
Methacrylonitrile  
Concen: 46.052 ug/l  
RT: 4.95 min Scan# 448  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Instrument :  
MSVOA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 147558 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 52.5  | 42.0  | 63.0   |
| 67       | 76.7  | 61.4  | 92.0   |
| 52       | 52.6  | 42.1  | 63.1   |

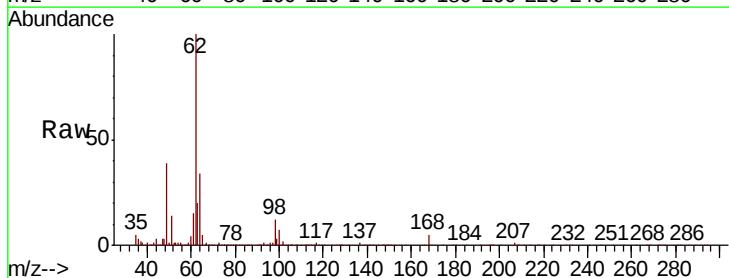


Abundance Ion 41.00 (40.70 to 41.70): VF0  
Ion 39.00 (38.70 to 39.70): VF0  
Ion 67.00 (66.70 to 67.70): VF0  
Ion 52.00 (51.70 to 52.70): VF0

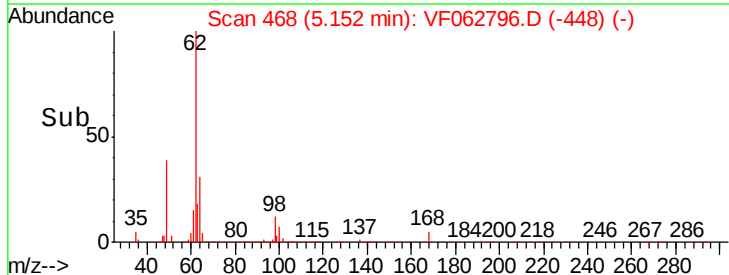
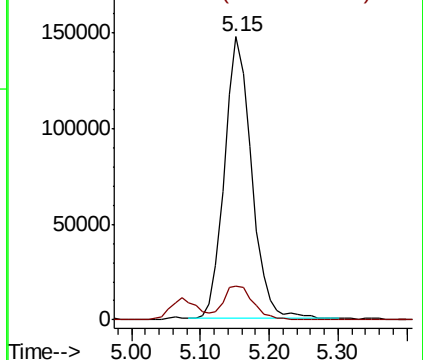


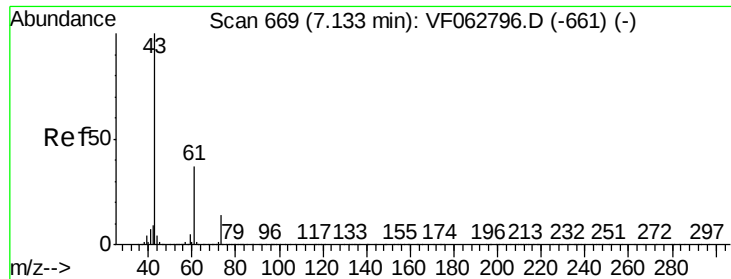
#42  
1,2-Dichloroethane  
Concen: 50.087 ug/l  
RT: 5.15 min Scan# 468  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 402023 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 12.0  | 0.0   | 24.0   |



Abundance Ion 62.00 (61.70 to 62.70): VF0  
Ion 98.00 (97.70 to 98.70): VF0



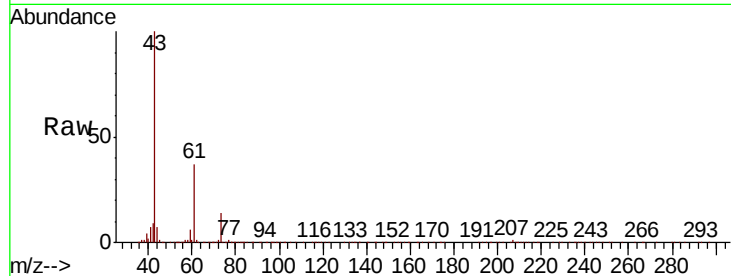


#43

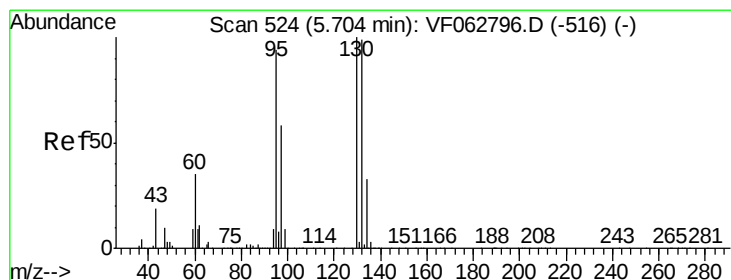
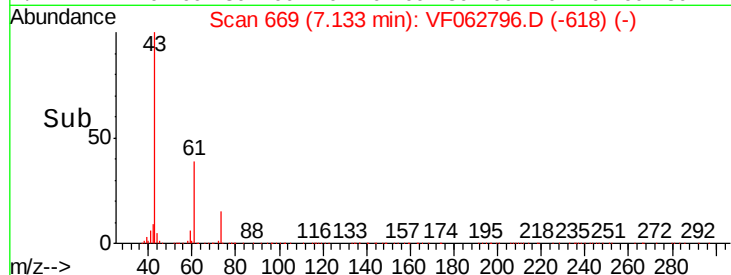
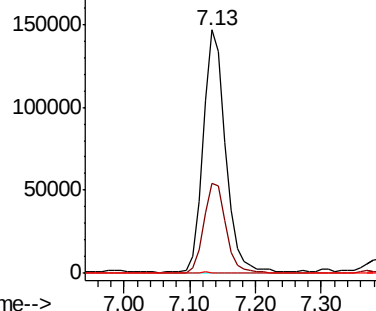
Isopropyl Acetate  
 Concen: 47.941 ug/l  
 RT: 7.13 min Scan# 669  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

Instrument :  
 MSVOA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 37.2  | 29.8  | 44.6  |
| 87      | 0.4   | 0.3   | 0.5   |



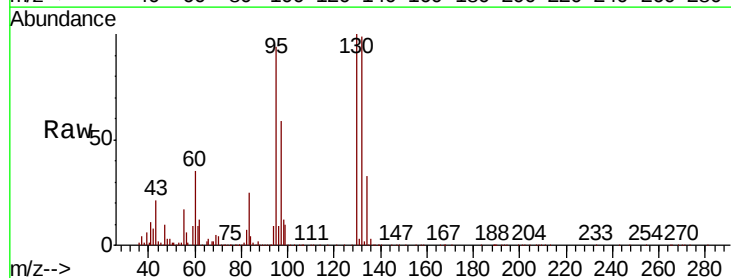
Abundance Ion 43.00 (42.70 to 43.70): VF0  
 Ion 61.00 (60.70 to 61.70): VF0  
 Ion 87.00 (86.70 to 87.70): VF0



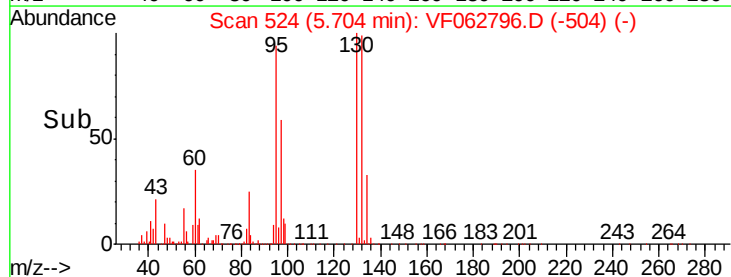
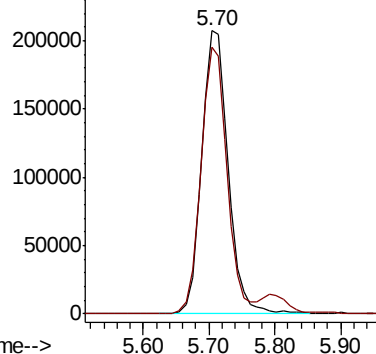
#44

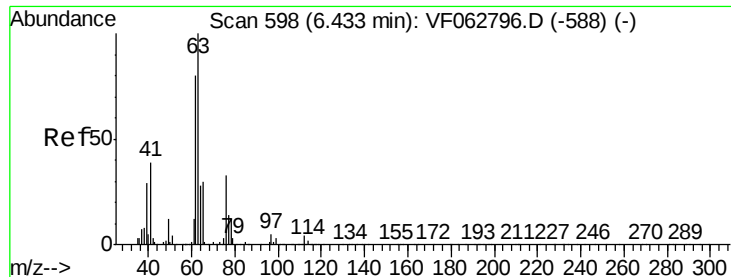
Trichloroethene  
 Concen: 48.429 ug/l  
 RT: 5.70 min Scan# 524  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 94.1  | 0.0   | 188.2 |



Abundance Ion 129.90 (129.60 to 130.60): V  
 Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 50.506 ug/l

RT: 6.43 min Scan# 598

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

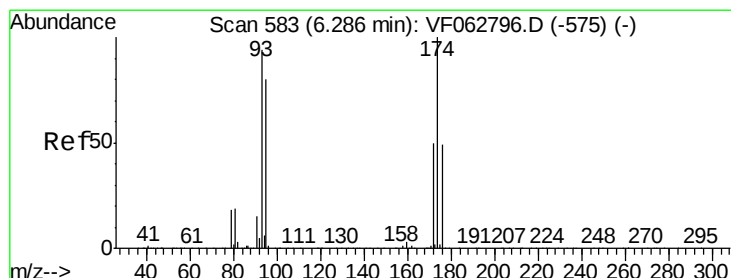
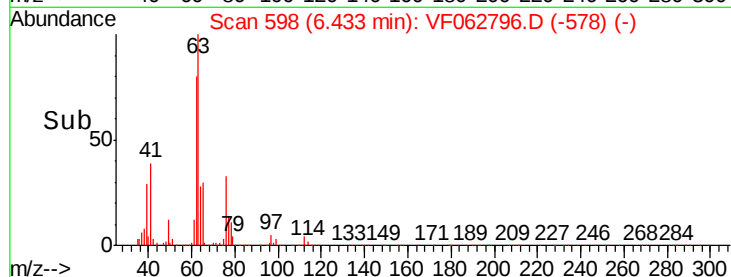
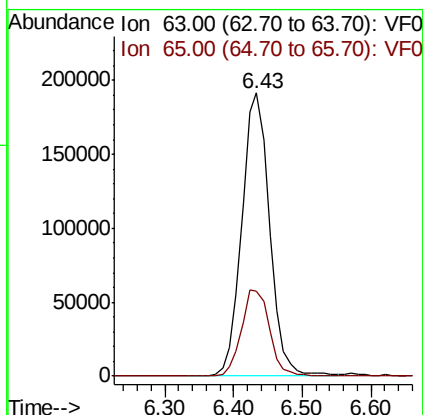
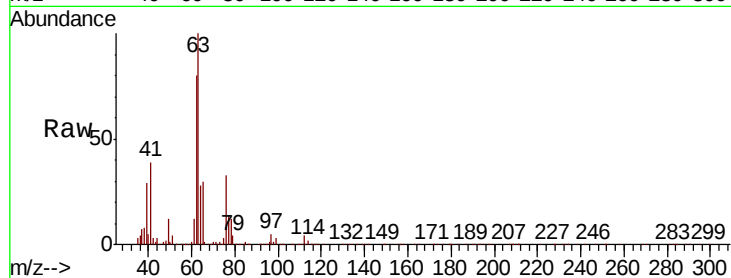
Instrument :  
MSVOA\_F  
ClientSampled :

Tot Ion: 63 Resp: 537076

Ion Ratio Lower Upper

63 100

65 30.2 24.2 36.2



#46

Dibromomethane

Concen: 48.635 ug/l

RT: 6.29 min Scan# 583

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

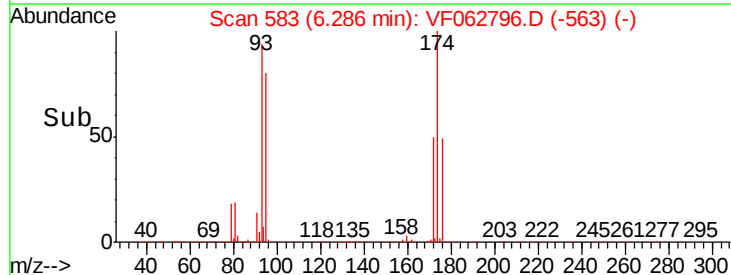
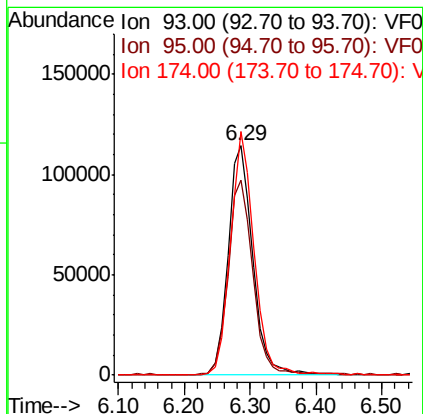
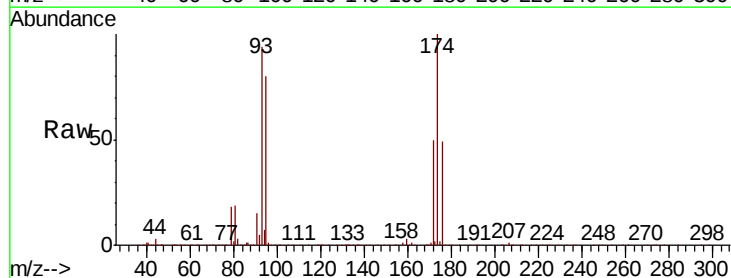
Tgt Ion: 93 Resp: 300649

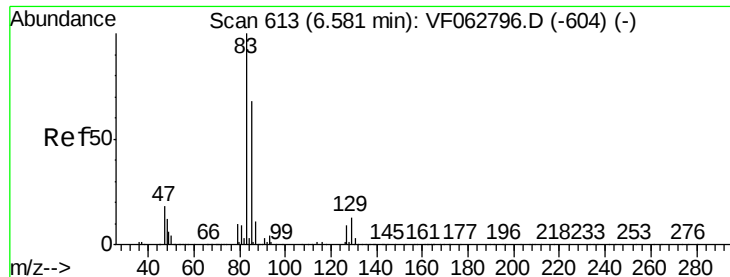
Ion Ratio Lower Upper

93 100

95 84.9 67.9 101.9

174 106.2 85.0 127.4





#47

Bromodichloromethane

Concen: 49.492 ug/l

RT: 6.58 min Scan# 613

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :  
MSVOA\_F  
ClientSampleId :

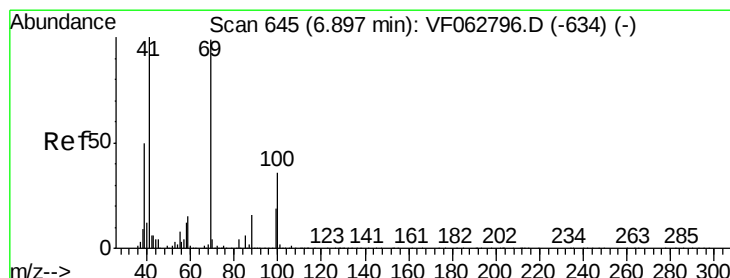
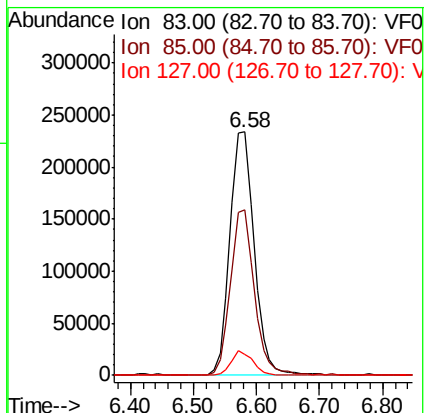
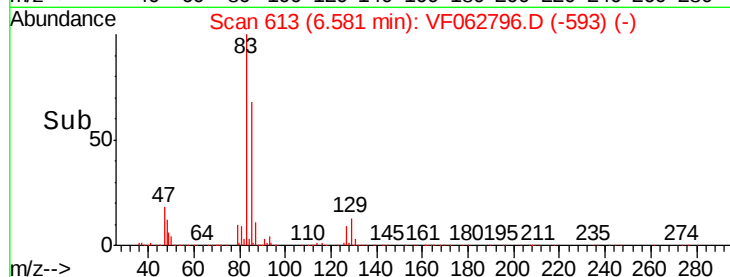
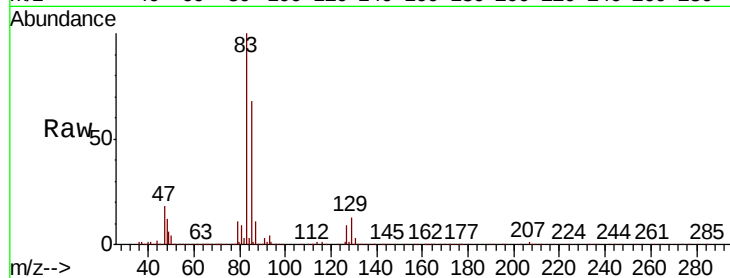
Tot Ion: 83 Resp: 623279

Ion Ratio Lower Upper

83 100

85 67.8 54.2 81.4

127 8.7 7.0 10.4



#48

Methyl methacrylate

Concen: 53.340 ug/l

RT: 6.90 min Scan# 645

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

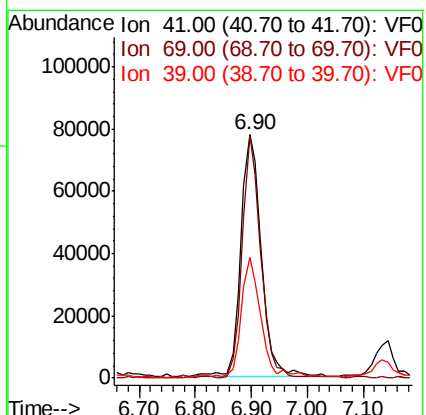
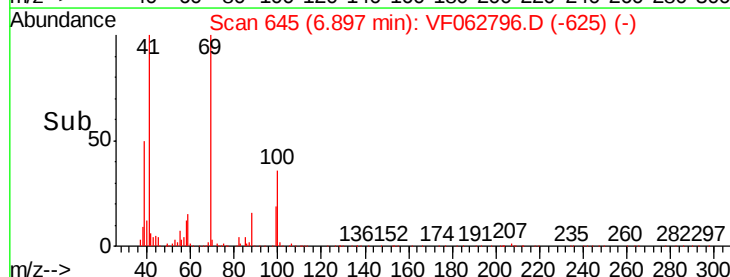
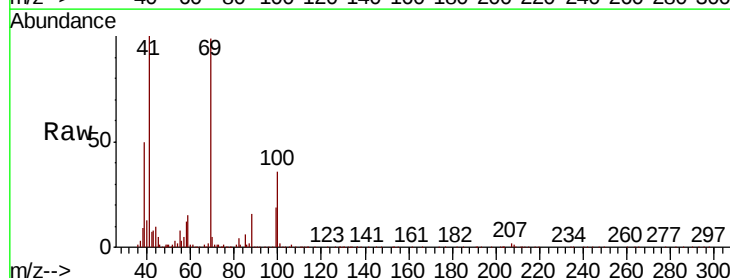
Tgt Ion: 41 Resp: 198815

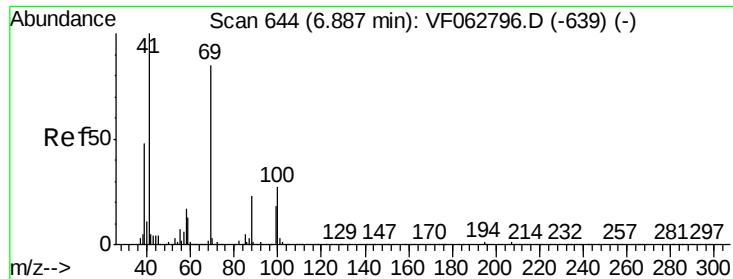
Ion Ratio Lower Upper

41 100

69 99.3 79.4 119.2

39 49.7 39.8 59.6

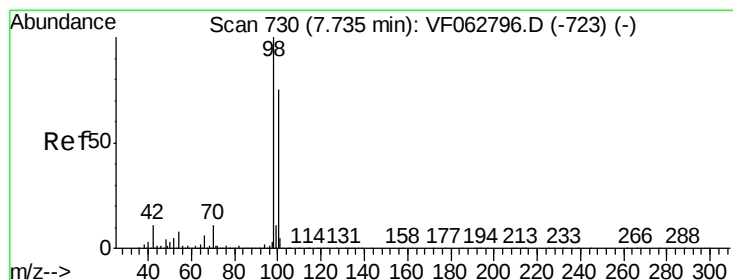
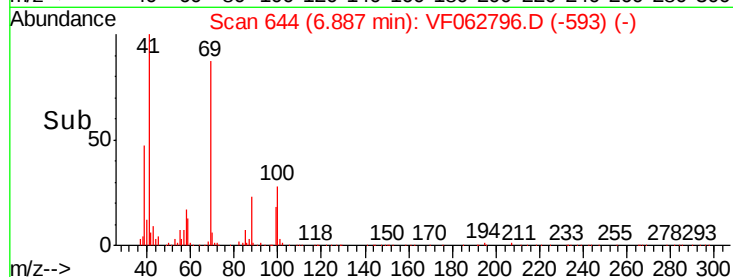
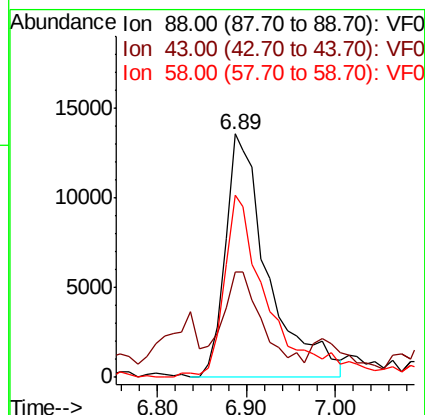
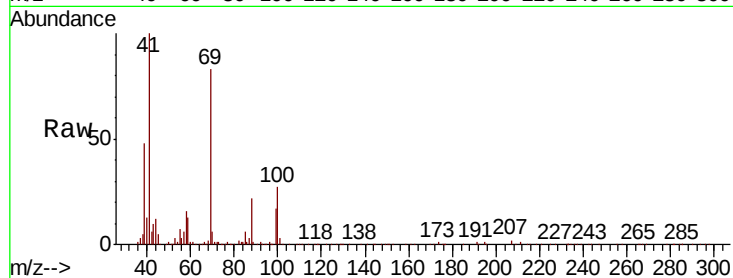




#49  
1,4-Dioxane  
Concen: 1017.637 ug/l  
RT: 6.89 min Scan# 644  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

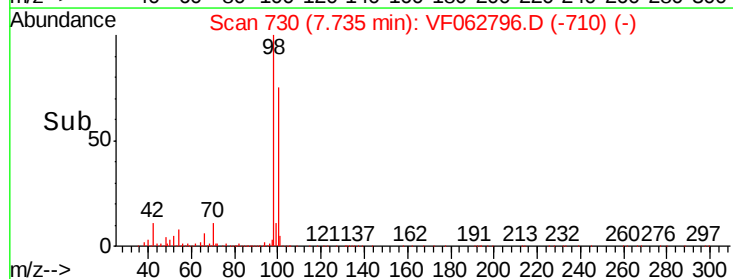
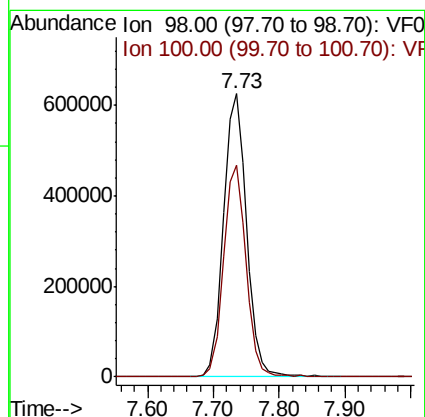
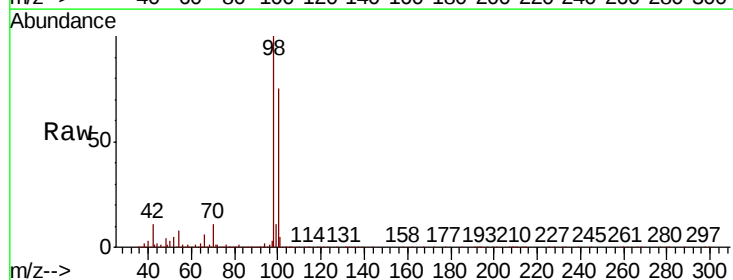
Instrument :  
MSVOA\_F  
ClientSampleId :

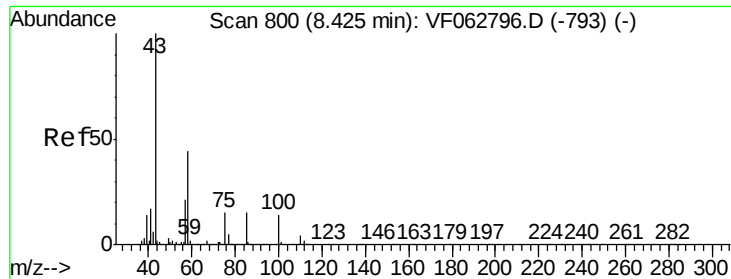
Tot Ion: 88 Resp: 45748  
Ion Ratio Lower Upper  
88 100  
43 43.5 34.8 52.2  
58 74.9 59.9 89.9



#50  
Toluene-d8  
Concen: 50.762 ug/l  
RT: 7.73 min Scan# 730  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Tgt Ion: 98 Resp: 1536781  
Ion Ratio Lower Upper  
98 100  
100 74.8 59.8 89.8





#51

4-Methyl-2-Pentanone

Concen: 221.156 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

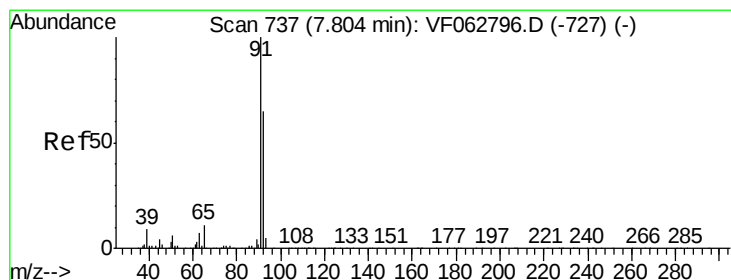
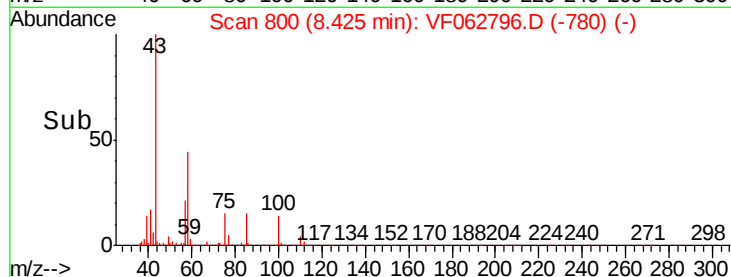
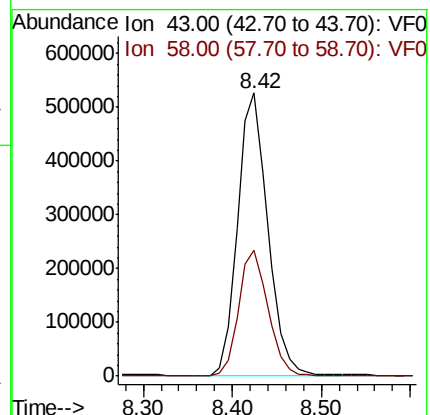
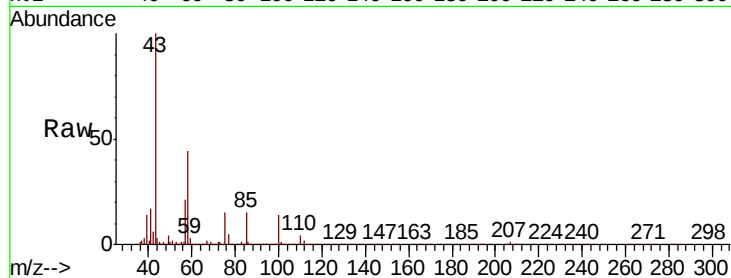
ClientSampleId :

Tot Ion: 43 Resp: 1243793

Ion Ratio Lower Upper

43 100

58 44.4 35.5 53.3



#52

Toluene

Concen: 49.864 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.00 min

Lab File: VF062796.D

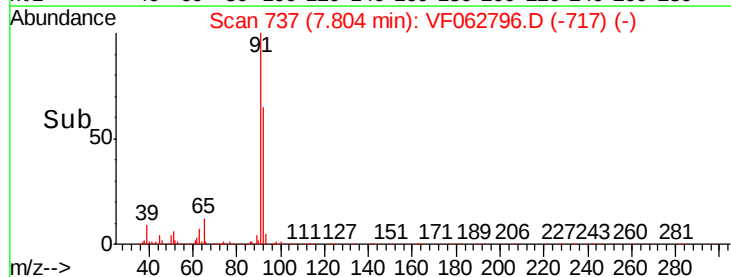
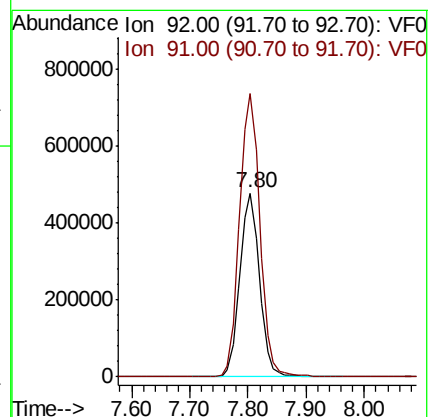
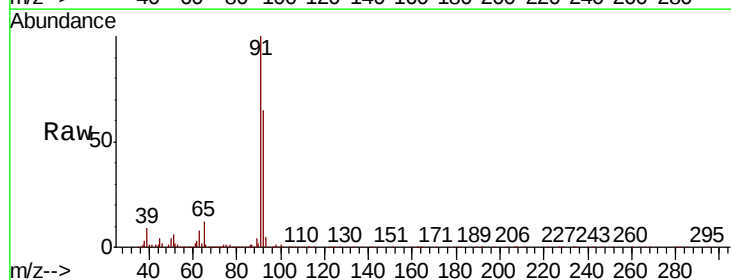
Acq: 30 May 2019 15:31

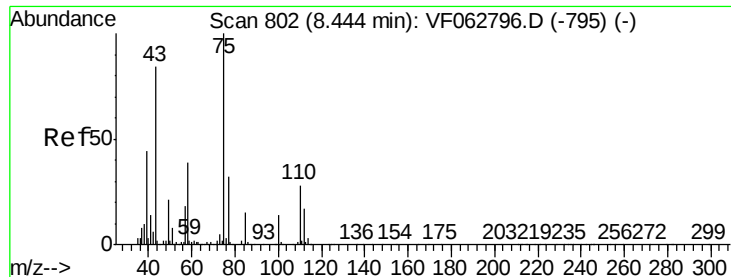
Tgt Ion: 92 Resp: 1127089

Ion Ratio Lower Upper

92 100

91 154.0 123.2 184.8

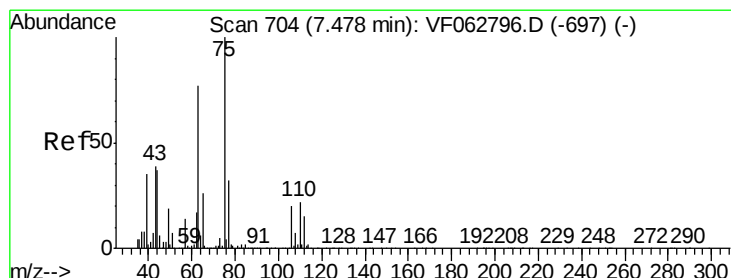
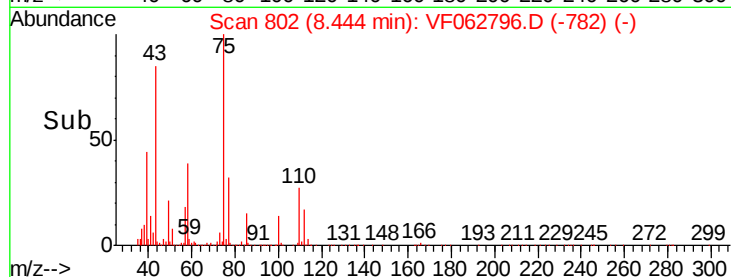
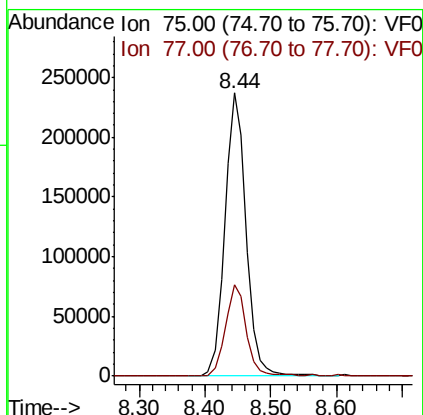
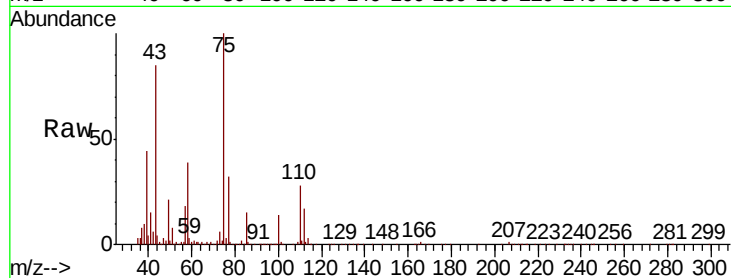




#53  
 t-1,3-Dichloropropene  
 Concen: 50.823 ug/l  
 RT: 8.44 min Scan# 802  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

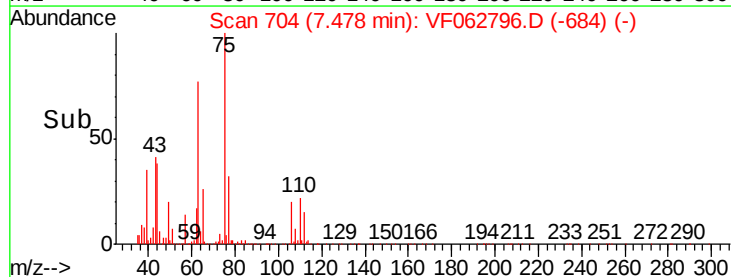
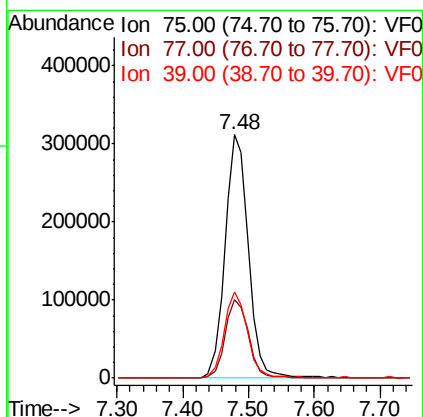
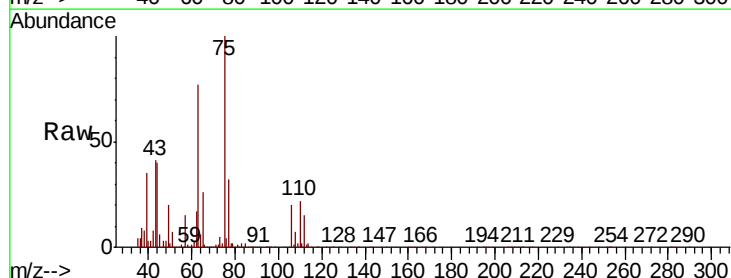
Instrument :  
 MSVOA\_F  
 ClientSampled :

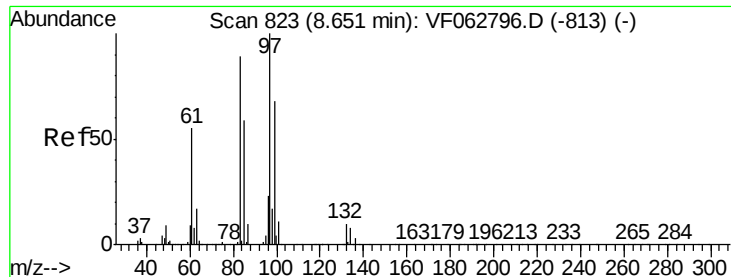
Tot Ion: 75 Resp: 529838  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 25.7 38.5



#54  
 cis-1,3-Dichloropropene  
 Concen: 50.921 ug/l  
 RT: 7.48 min Scan# 704  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

Tgt Ion: 75 Resp: 768345  
 Ion Ratio Lower Upper  
 75 100  
 77 32.3 25.8 38.8  
 39 35.5 28.4 42.6





#55

1,1,2-Trichloroethane

Concen: 48.293 ug/l

RT: 8.65 min Scan# 823

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 97 Resp: 334155

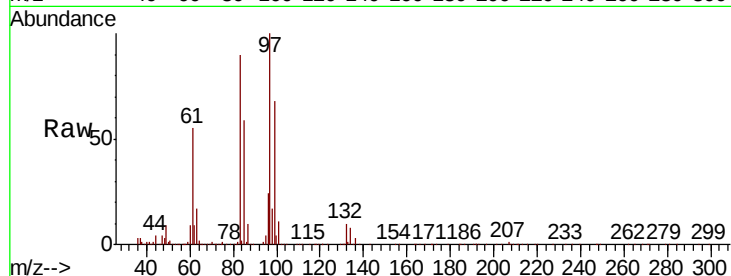
Ion Ratio Lower Upper

97 100

83 90.0 72.0 108.0

85 59.4 47.5 71.3

99 67.6 54.1 81.1

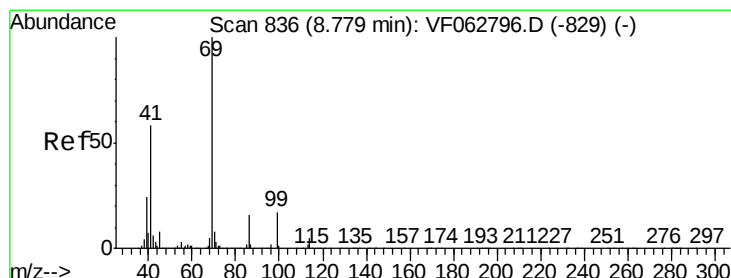
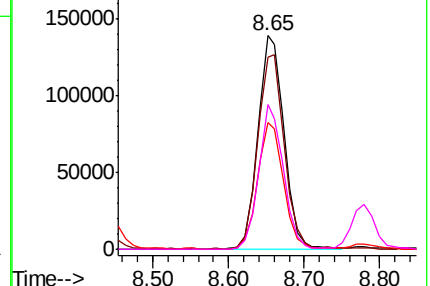
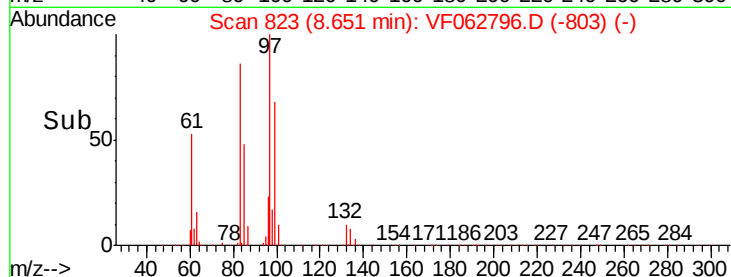


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 51.583 ug/l

RT: 8.78 min Scan# 836

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

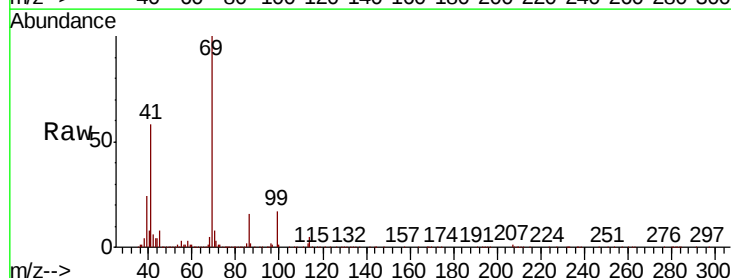
Tgt Ion: 69 Resp: 366128

Ion Ratio Lower Upper

69 100

41 58.2 46.6 69.8

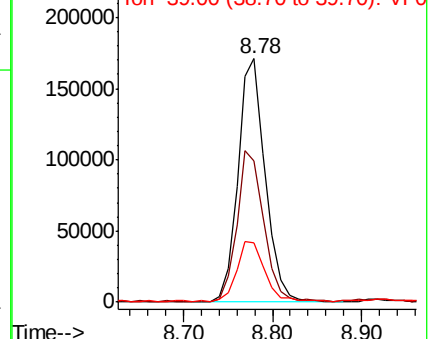
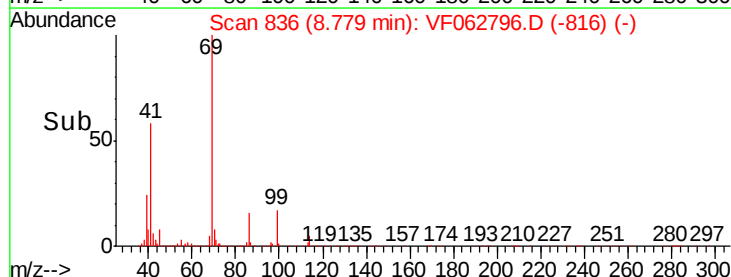
39 24.5 19.6 29.4

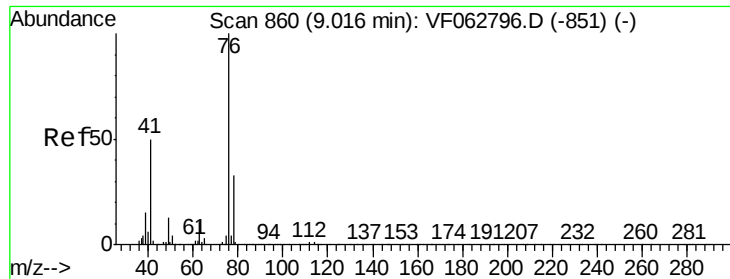


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 49.961 ug/l

RT: 9.02 min Scan# 860

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

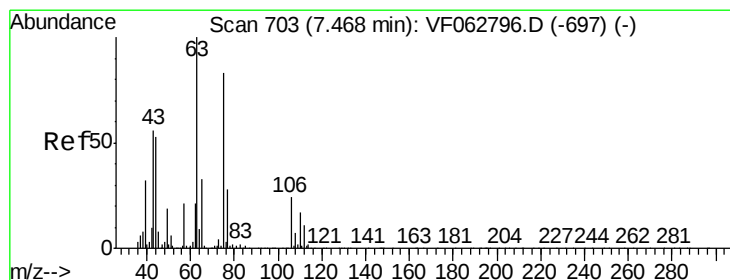
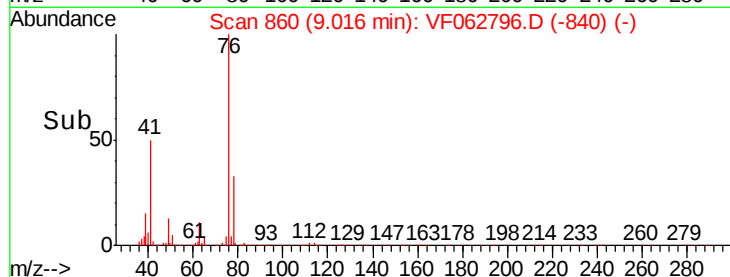
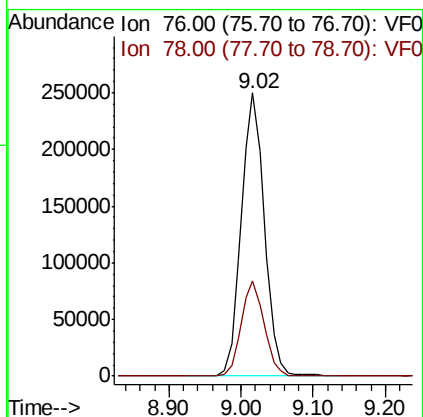
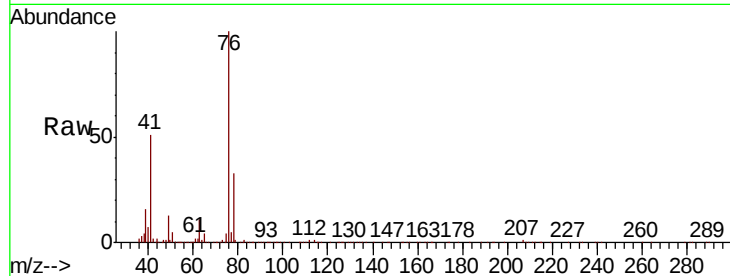
ClientSampleId :

Tot Ion: 76 Resp: 562433

Ion Ratio Lower Upper

76 100

78 33.5 26.8 40.2



#58

2-Chloroethyl Vinyl ether

Concen: 248.417 ug/l

RT: 7.47 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF062796.D

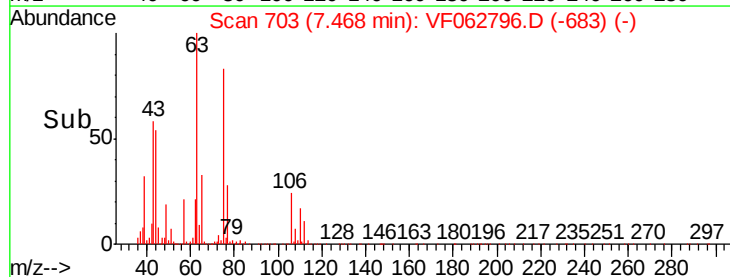
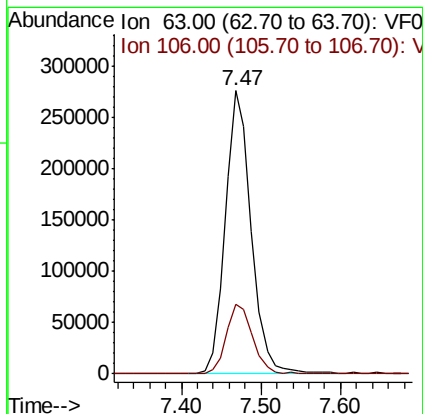
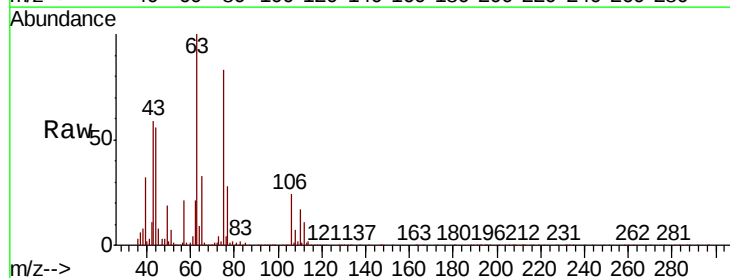
Acq: 30 May 2019 15:31

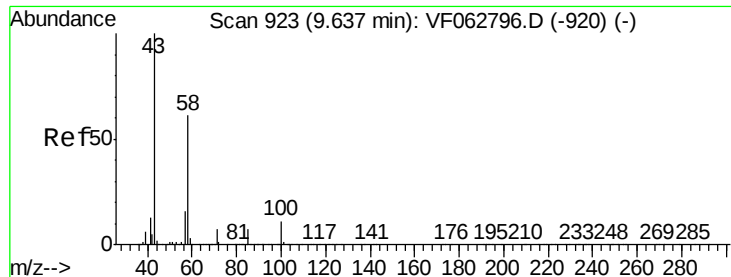
Tgt Ion: 63 Resp: 624442

Ion Ratio Lower Upper

63 100

106 24.4 19.5 29.3

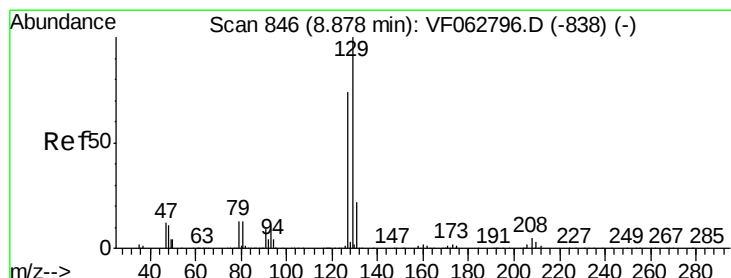
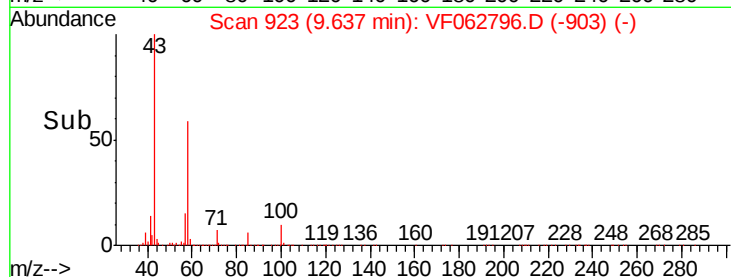
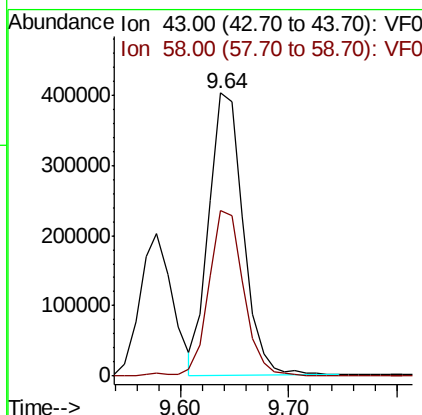
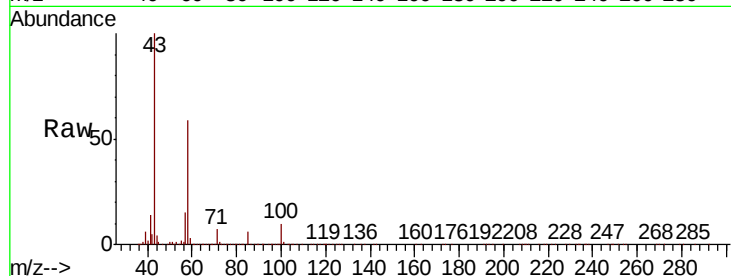




#59  
2-Hexanone  
Concen: 224.170 ug/l  
RT: 9.64 min Scan# 923  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

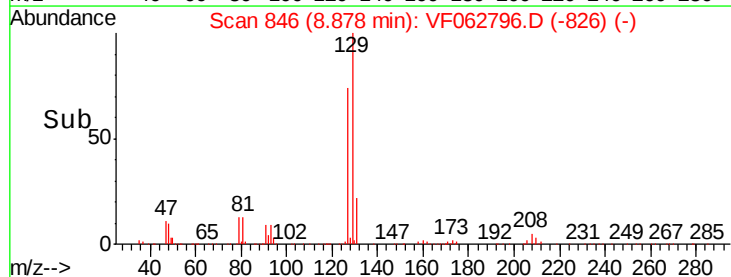
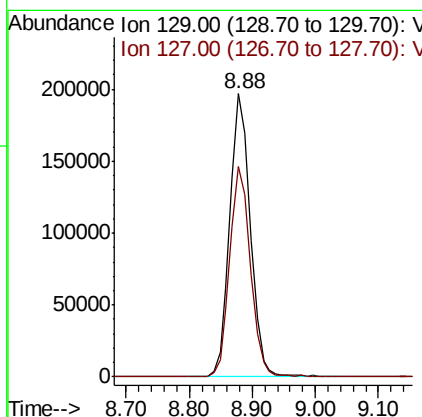
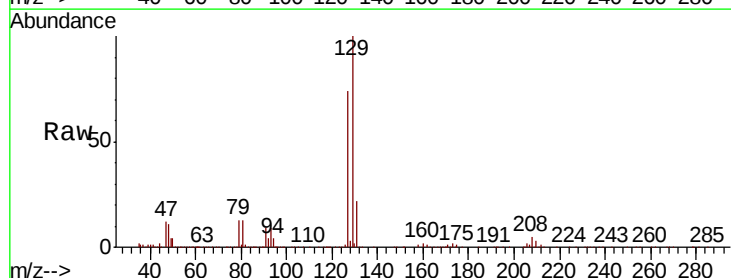
Instrument :  
MSVOA\_F  
ClientSampleId :

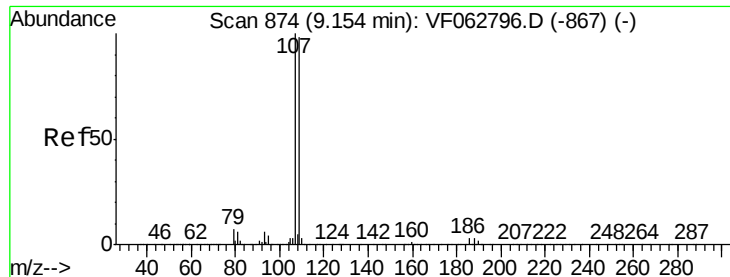
Tot Ion: 43 Resp: 882102  
Ion Ratio Lower Upper  
43 100  
58 58.6 29.3 87.9



#60  
Dibromochloromethane  
Concen: 52.753 ug/l  
RT: 8.88 min Scan# 846  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Tgt Ion: 129 Resp: 440308  
Ion Ratio Lower Upper  
129 100  
127 74.2 37.1 111.3





#61

1,2-Dibromoethane

Concen: 52.206 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

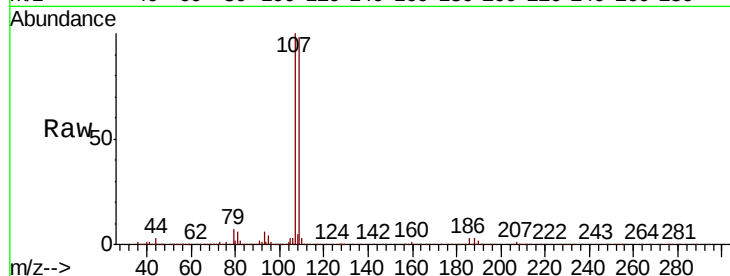
Instrument :  
MSVOA\_F  
ClientSampleId :

Tot Ion: 107 Resp: 356738

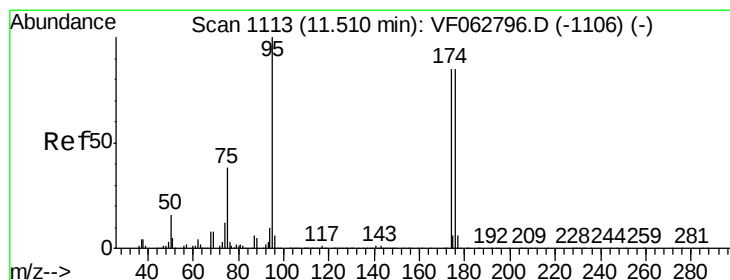
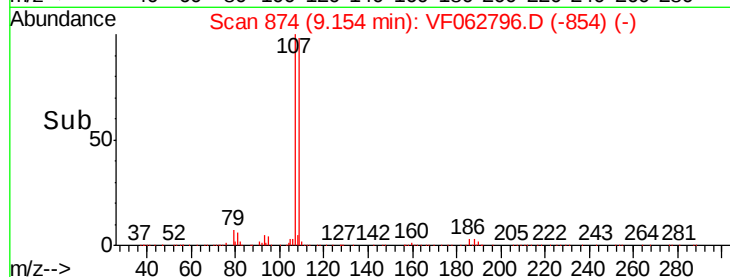
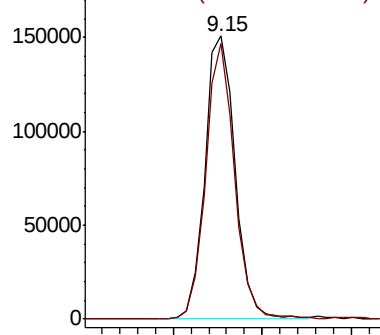
Ion Ratio Lower Upper

107 100

109 97.6 78.1 117.1



Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 53.150 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

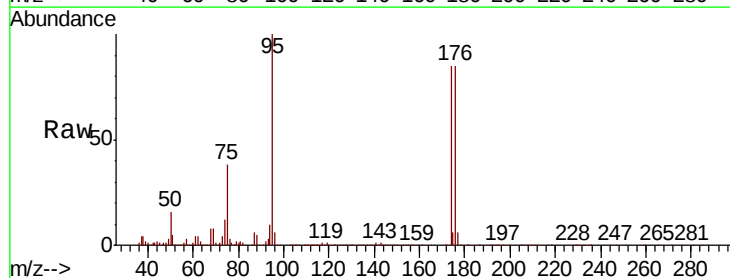
Tgt Ion: 95 Resp: 550349

Ion Ratio Lower Upper

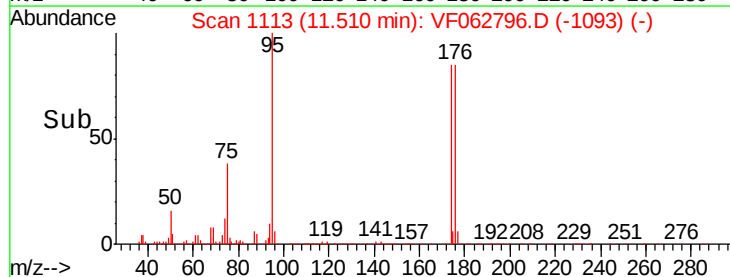
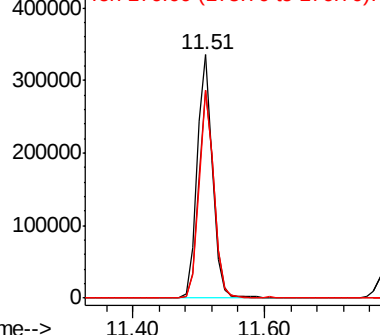
95 100

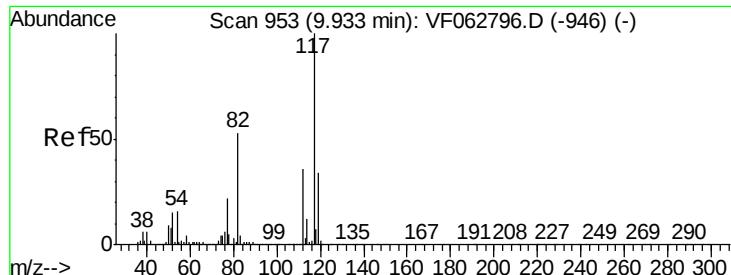
174 85.3 0.0 170.6

176 85.3 0.0 170.6



Abundance Ion 95.00 (94.70 to 95.70): VF0  
Ion 174.00 (173.70 to 174.70): V  
Ion 176.00 (175.70 to 176.70): V

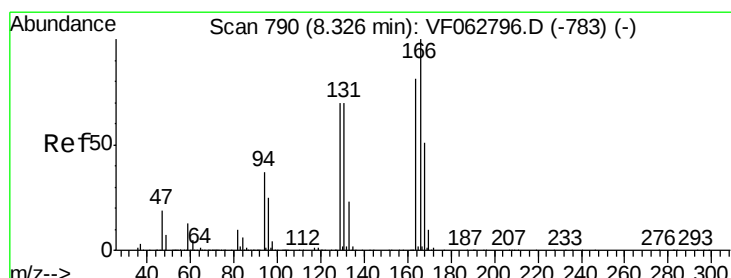
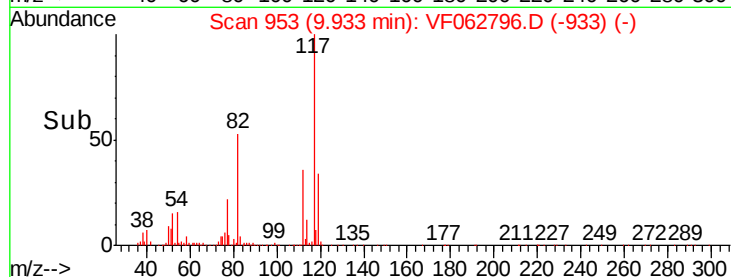
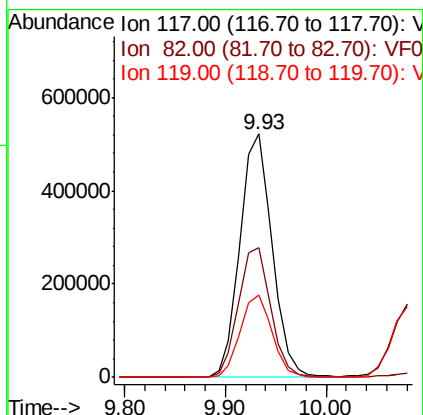
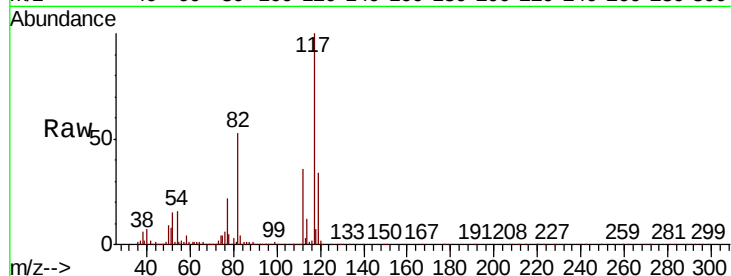




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.93 min Scan# 953  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

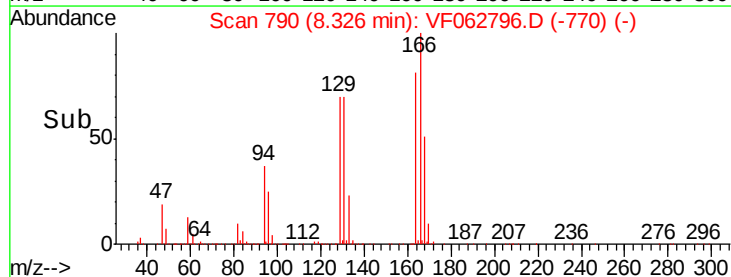
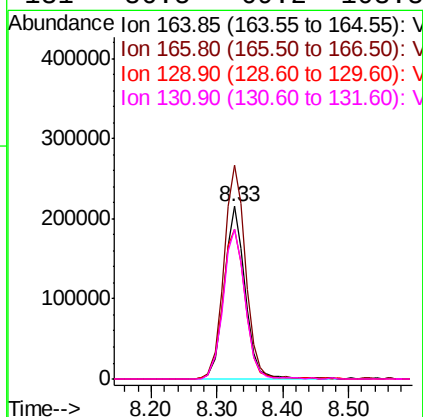
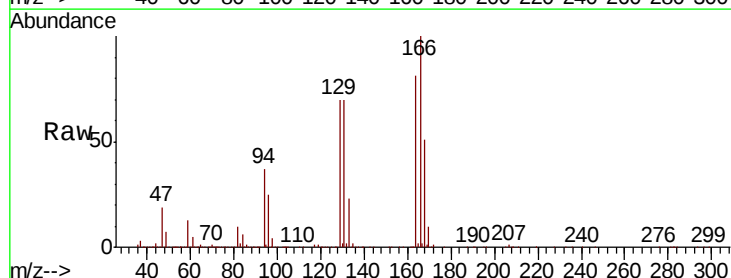
Instrument :  
MSVOA\_F  
ClientSampleId :

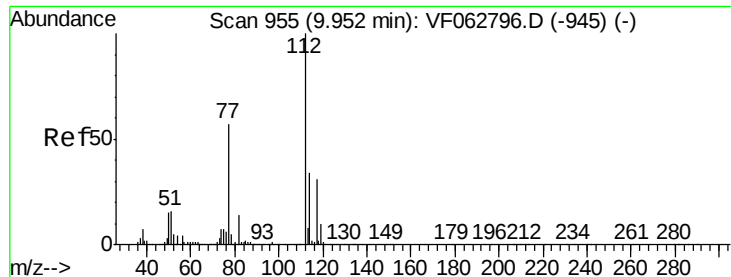
Tot Ion:117 Resp: 1167100  
Ion Ratio Lower Upper  
117 100  
82 53.0 42.4 63.6  
119 33.9 27.1 40.7



#64  
Tetrachloroethene  
Concen: 49.332 ug/l  
RT: 8.33 min Scan# 790  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Tgt Ion:164 Resp: 480404  
Ion Ratio Lower Upper  
164 100  
166 123.9 99.1 148.7  
129 86.9 69.5 104.3  
131 86.5 69.2 103.8





#65

Chlorobenzene

Concen: 49.519 ug/l

RT: 9.95 min Scan# 955

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

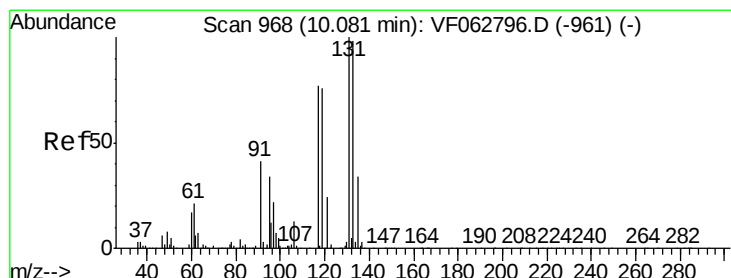
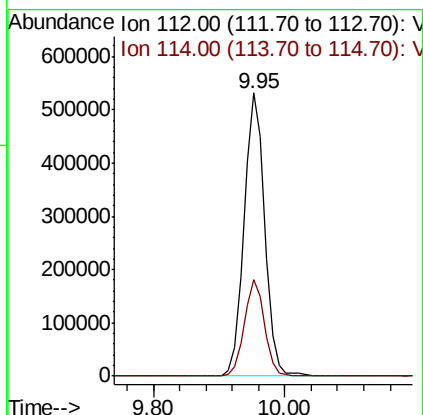
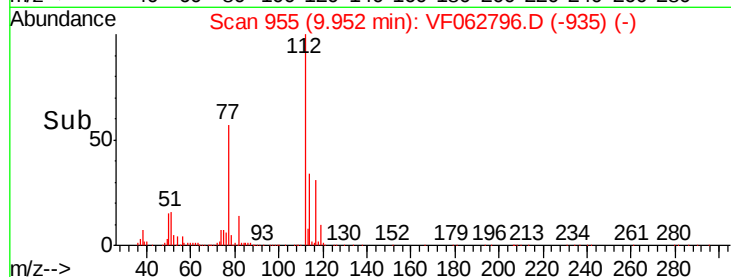
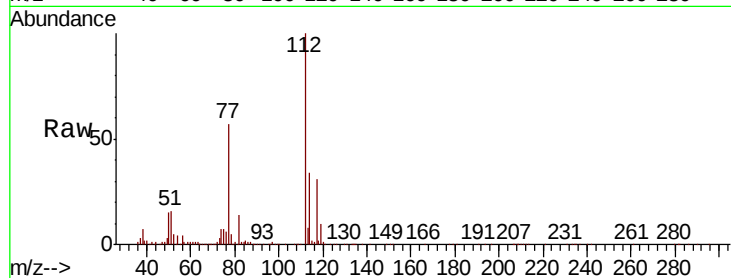
ClientSampleId :

Tot Ion:112 Resp: 1171903

Ion Ratio Lower Upper

112 100

114 34.2 27.4 41.0



#66

1,1,1,2-Tetrachloroethane

Concen: 49.686 ug/l

RT: 10.08 min Scan# 968

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

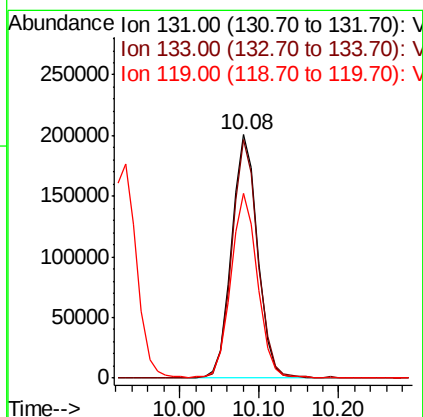
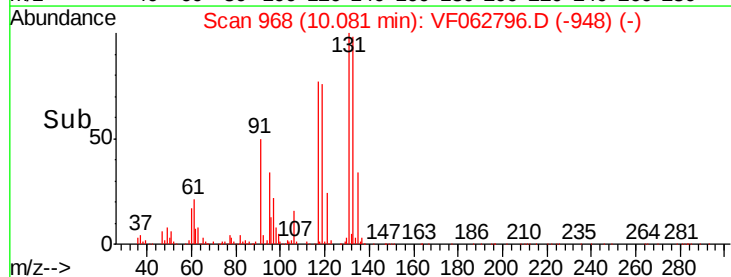
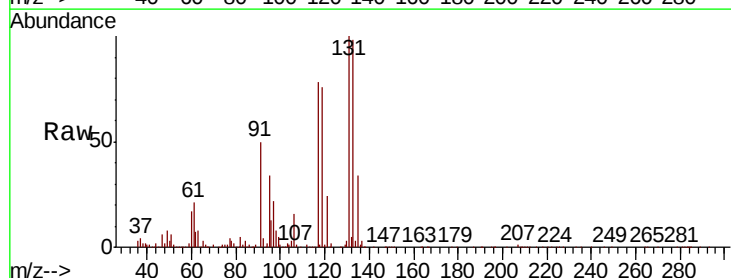
Tgt Ion:131 Resp: 459330

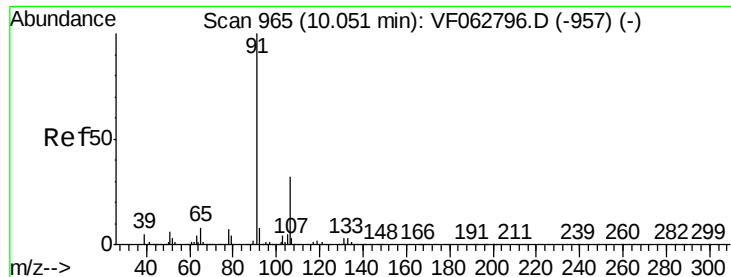
Ion Ratio Lower Upper

131 100

133 97.8 48.9 146.7

119 76.0 38.0 114.0

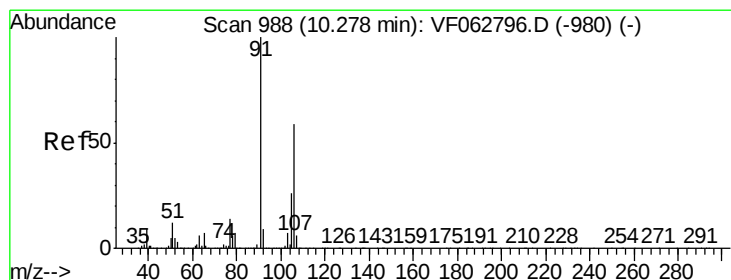
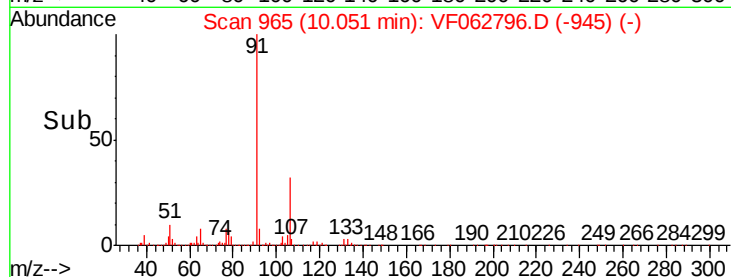
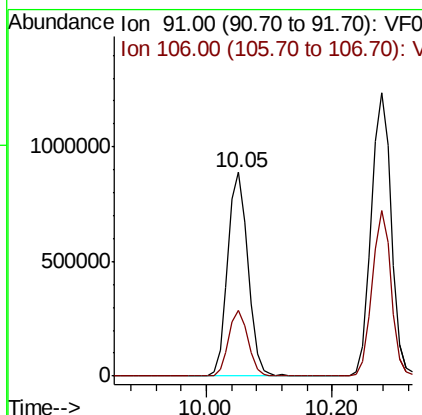
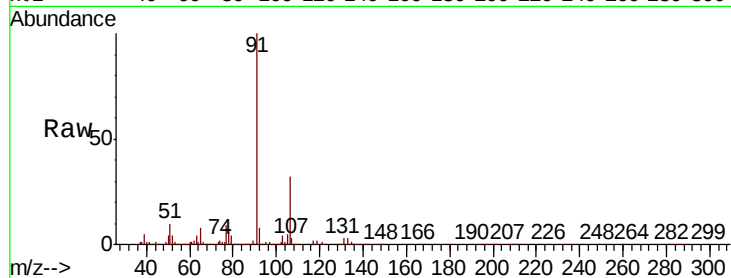




#67  
Ethyl Benzene  
Concen: 47.745 ug/l  
RT: 10.05 min Scan# 965  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

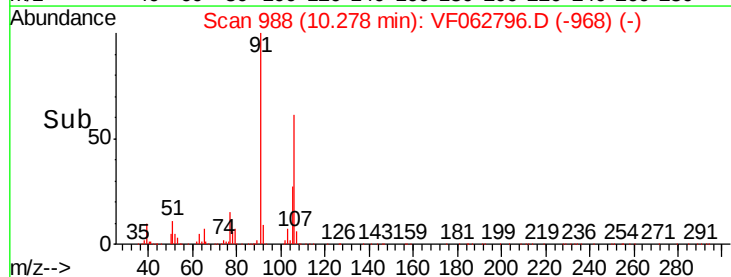
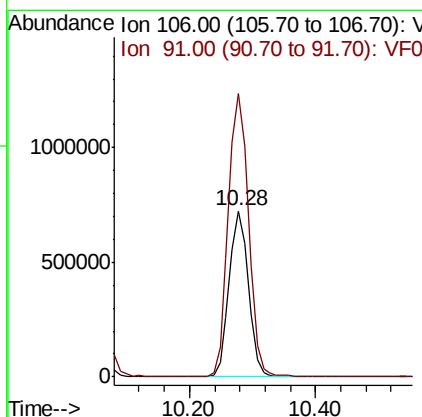
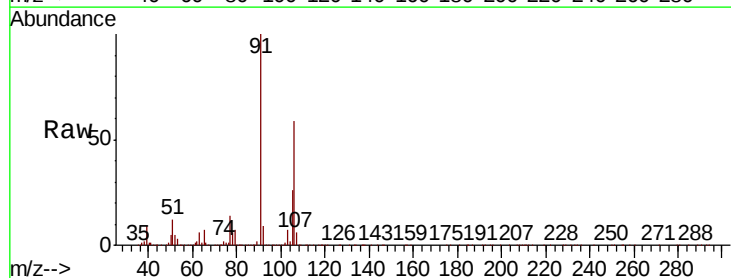
Instrument :  
MSVOA\_F  
ClientSampleId :

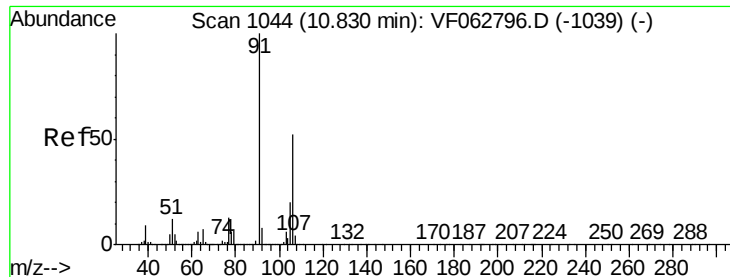
Tot Ion: 91 Resp: 1969550  
Ion Ratio Lower Upper  
91 100  
106 32.5 26.0 39.0



#68  
m/p-Xylenes  
Concen: 99.286 ug/l  
RT: 10.28 min Scan# 988  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Tgt Ion: 106 Resp: 1528055  
Ion Ratio Lower Upper  
106 100  
91 170.3 136.2 204.4

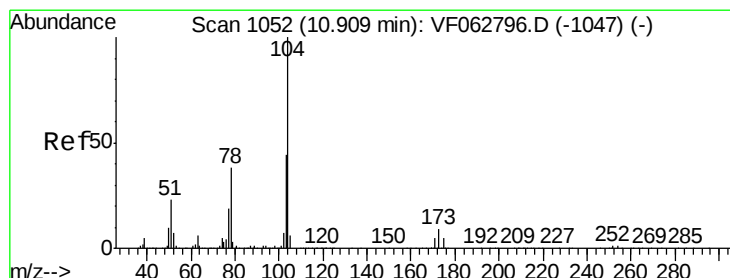
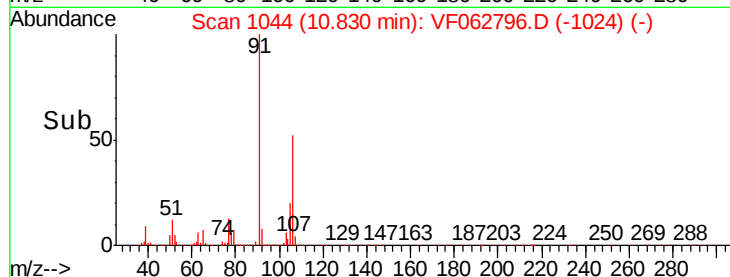
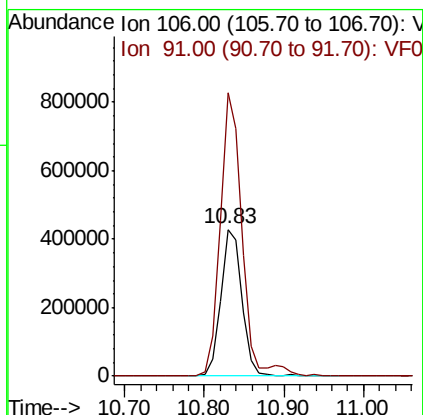
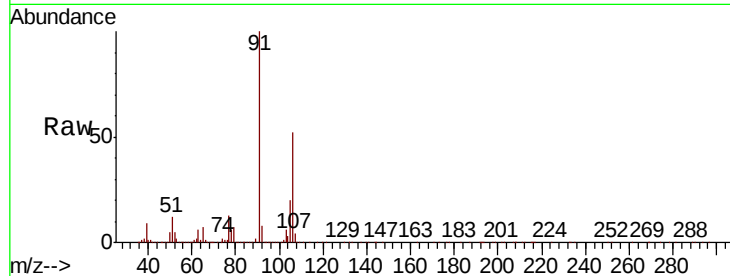




#69  
o-Xylene  
Concen: 51.513 ug/l  
RT: 10.83 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

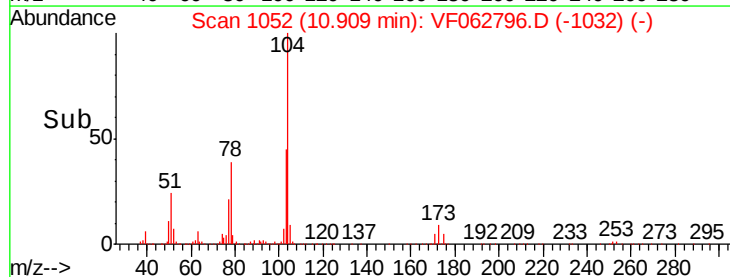
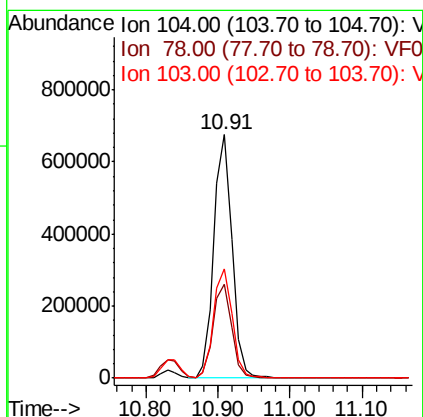
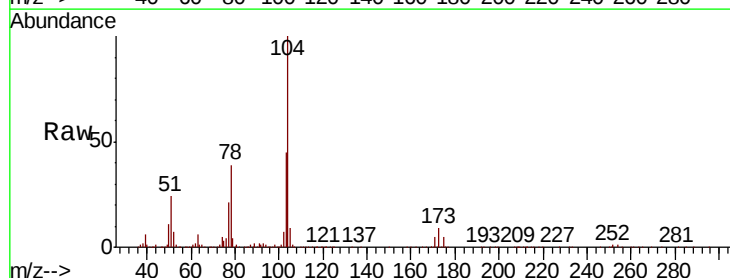
Instrument :  
MSVOA\_F  
ClientSampled :

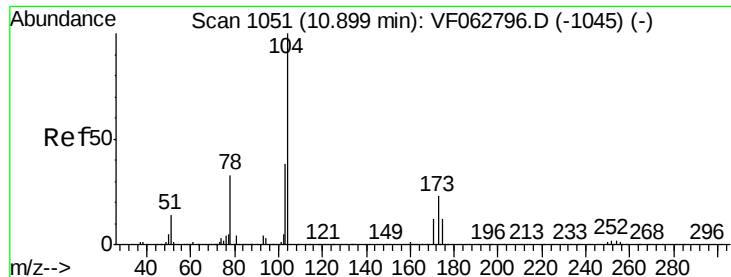
Tot Ion:106 Resp: 803634  
Ion Ratio Lower Upper  
106 100  
91 193.2 96.6 289.8



#70  
Styrene  
Concen: 50.955 ug/l  
RT: 10.91 min Scan# 1052  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Tgt Ion:104 Resp: 1168810  
Ion Ratio Lower Upper  
104 100  
78 38.5 30.8 46.2  
103 44.7 35.8 53.6





#71

Bromoform

Concen: 51.391 ug/l

RT: 10.90 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

ClientSampleId :

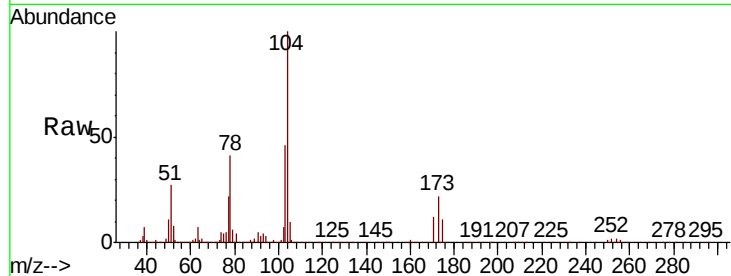
Tot Ion:173 Resp: 230989

Ion Ratio Lower Upper

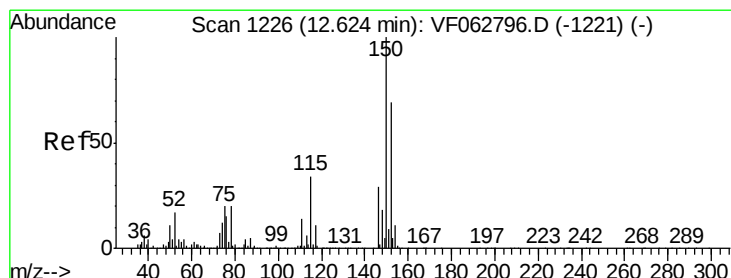
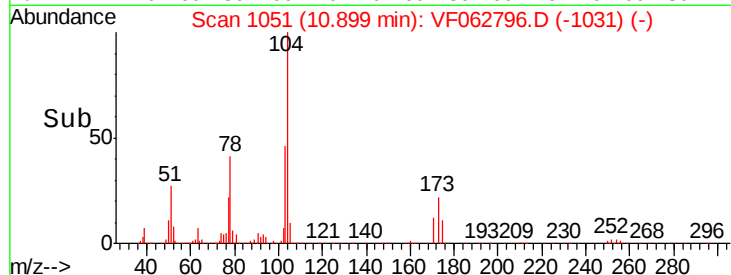
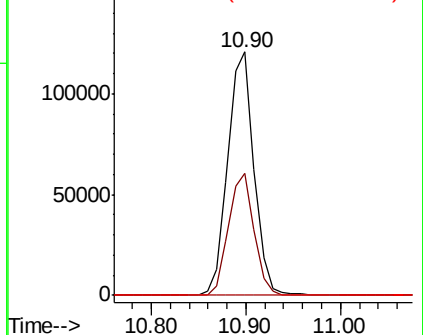
173 100

175 49.3 24.6 74.0

254 0.1 0.1 0.1#



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

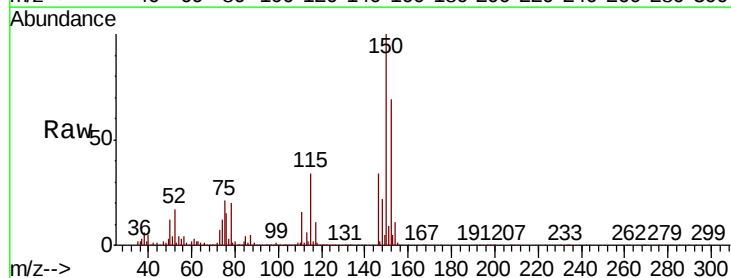
Tgt Ion:152 Resp: 563515

Ion Ratio Lower Upper

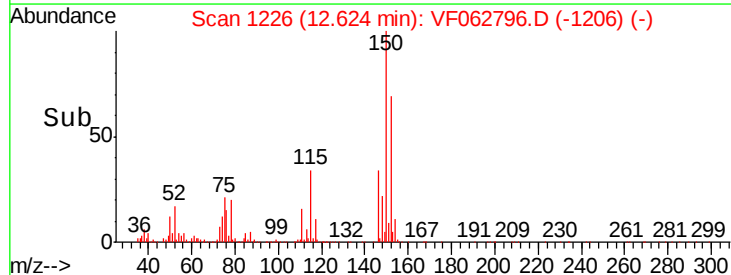
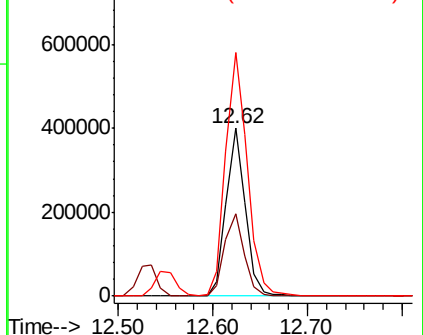
152 100

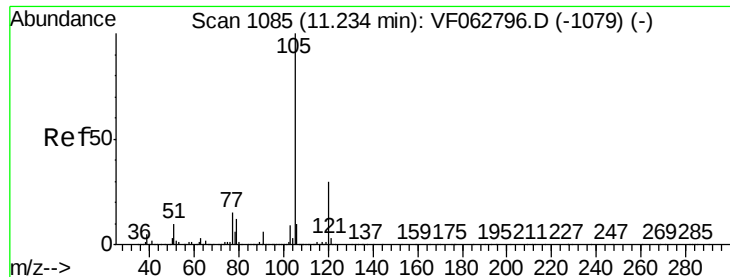
115 49.3 24.6 74.0

150 145.3 0.0 290.6



Abundance Ion 152.00 (151.70 to 152.70): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 48.684 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

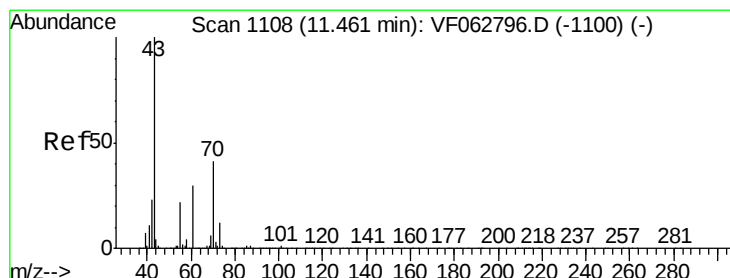
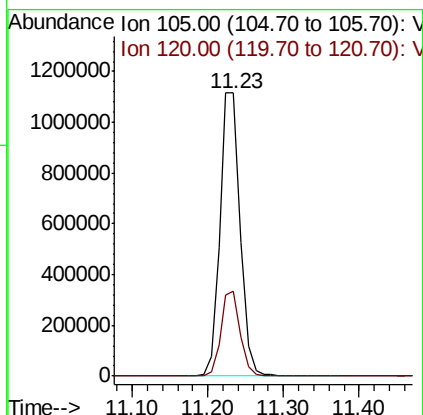
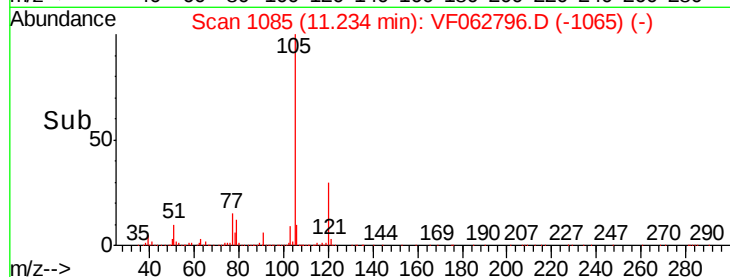
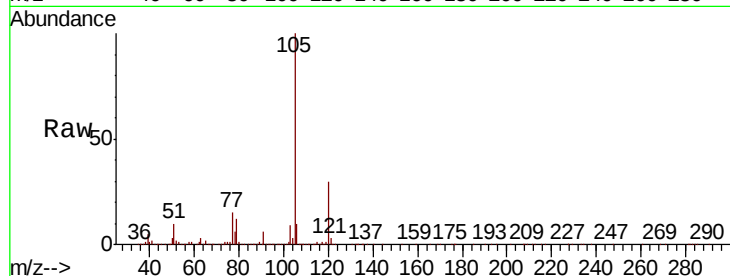
ClientSampleId :

Tot Ion:105 Resp: 2075438

Ion Ratio Lower Upper

105 100

120 30.2 15.1 45.3



#74

N-ethyl acetate

Concen: 44.642 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Tgt Ion: 43 Resp: 539915

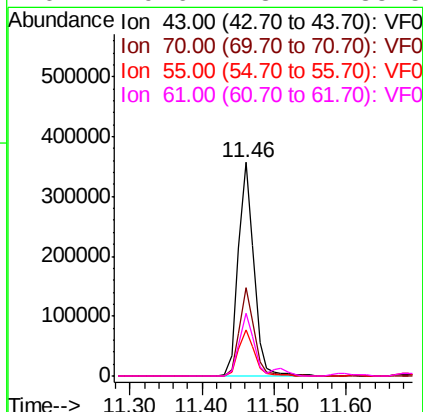
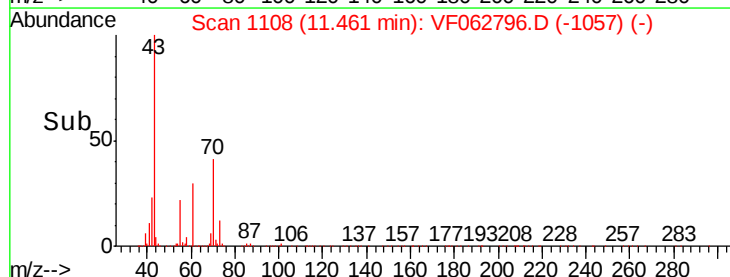
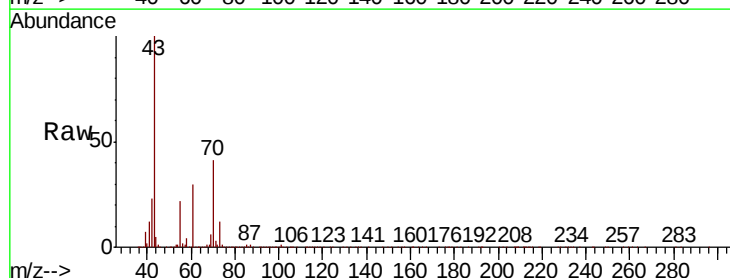
Ion Ratio Lower Upper

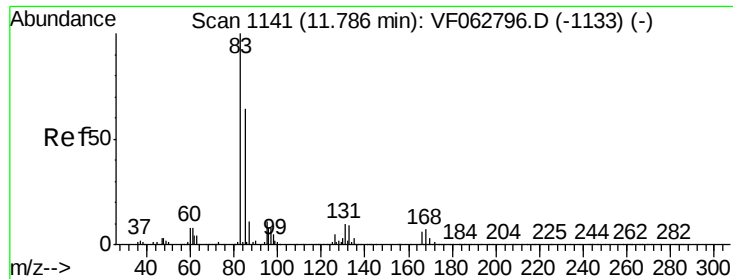
43 100

70 41.1 32.9 49.3

55 21.6 17.3 25.9

61 29.6 23.7 35.5





#75

1,1,2,2-Tetrachloroethane

Concen: 47.094 ug/l

RT: 11.79 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

ClientSampleId :

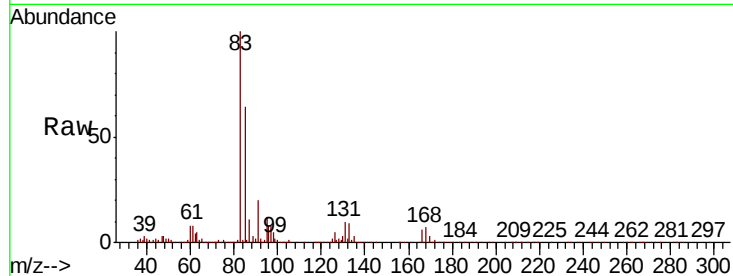
Tot Ion: 83 Resp: 433815

Ion Ratio Lower Upper

83 100

131 9.8 4.9 14.7

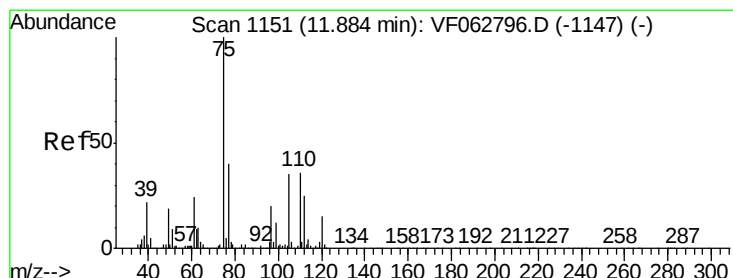
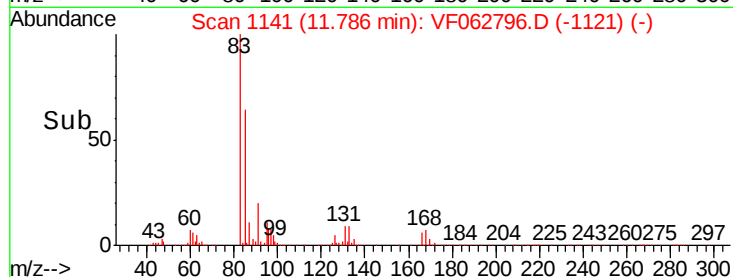
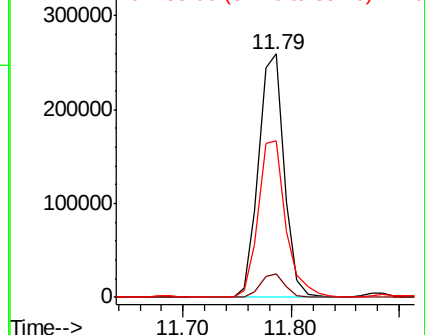
85 64.3 32.1 96.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 47.080 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.00 min

Lab File: VF062796.D

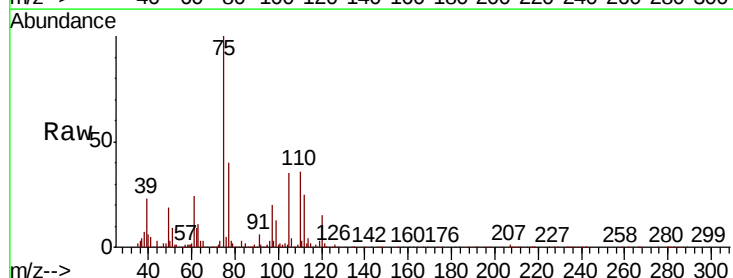
Acq: 30 May 2019 15:31

Tgt Ion: 75 Resp: 278935

Ion Ratio Lower Upper

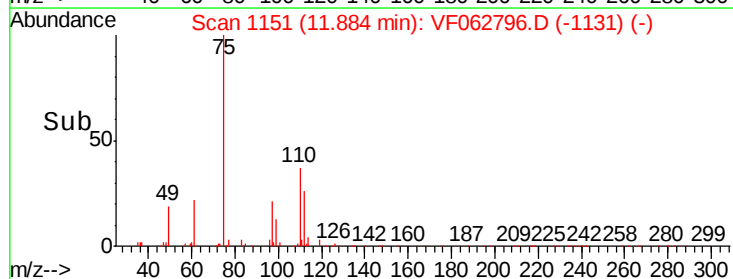
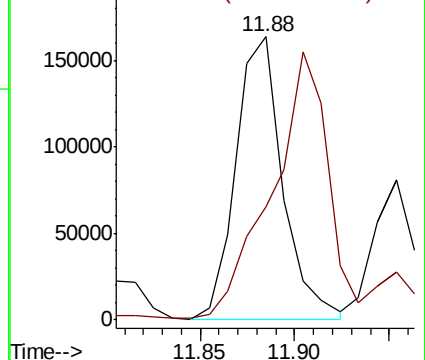
75 100

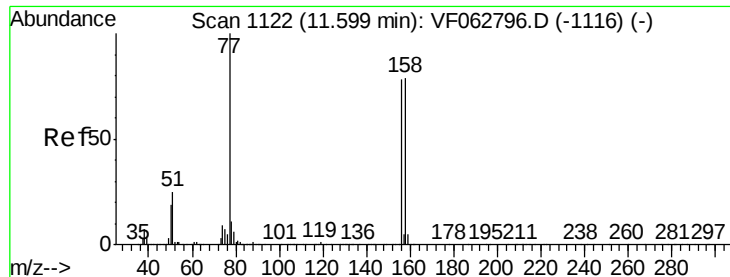
77 40.1 20.1 60.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 48.135 ug/l

RT: 11.60 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

ClientSampleId :

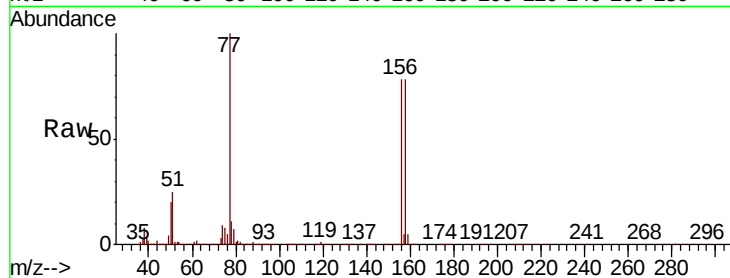
Tot Ion:156 Resp: 502557

Ion Ratio Lower Upper

156 100

77 128.4 64.2 192.6

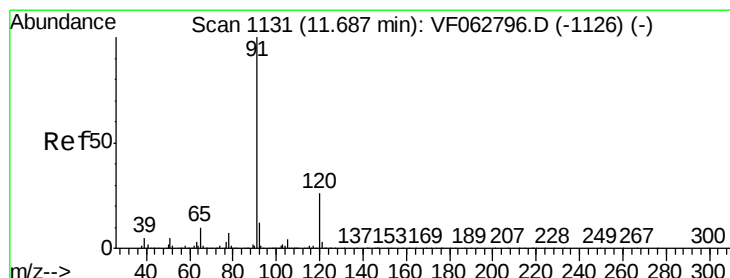
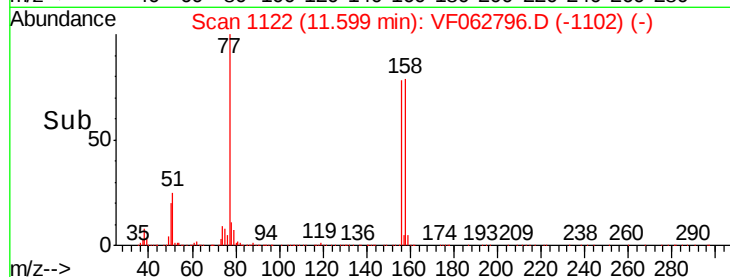
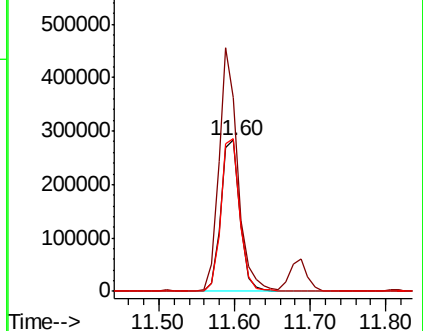
158 100.7 50.3 151.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 46.896 ug/l

RT: 11.69 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VF062796.D

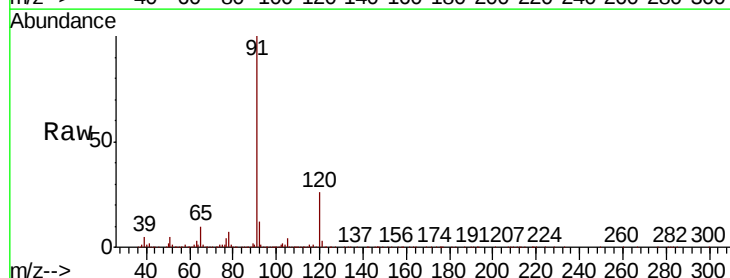
Acq: 30 May 2019 15:31

Tgt Ion: 91 Resp: 2481128

Ion Ratio Lower Upper

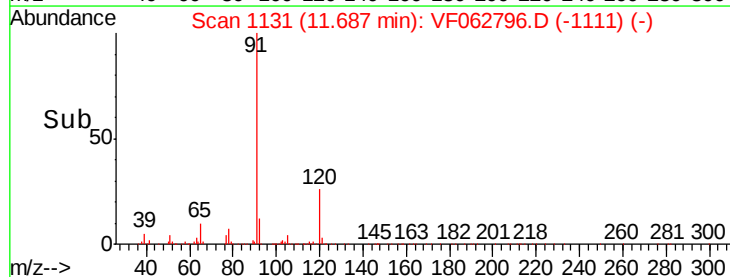
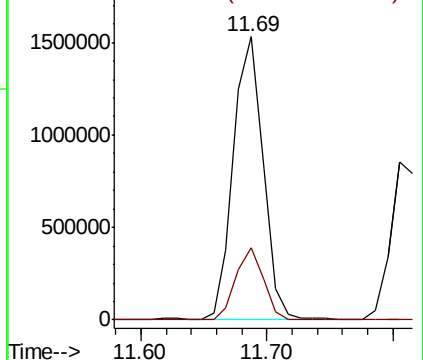
91 100

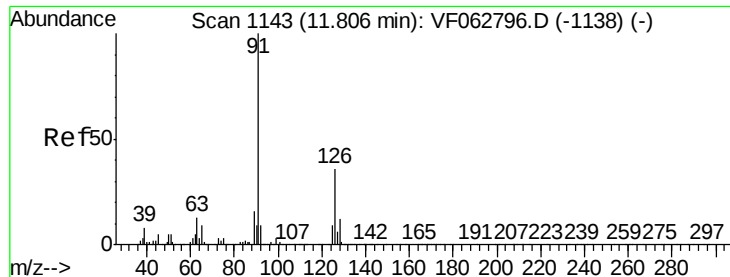
120 25.6 12.8 38.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 48.844 ug/l

RT: 11.81 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

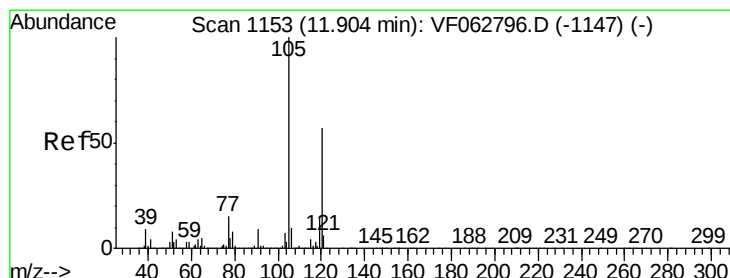
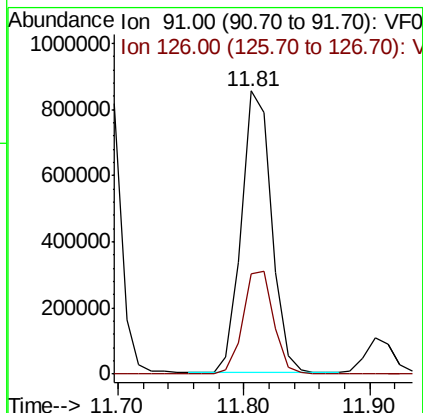
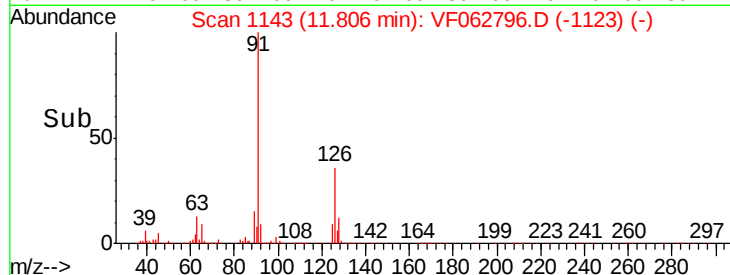
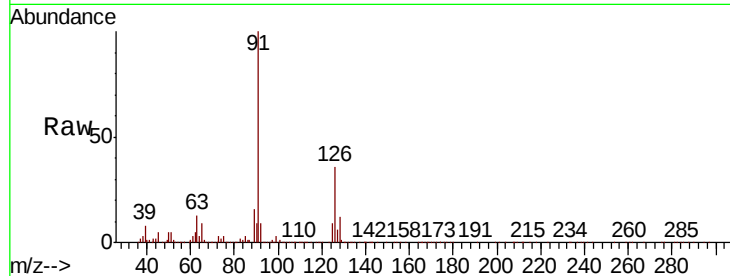
ClientSampleId :

Tot Ion: 91 Resp: 1415533

Ion Ratio Lower Upper

91 100

126 35.5 17.8 53.3



#80

1,3,5-Trimethylbenzene

Concen: 48.650 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF062796.D

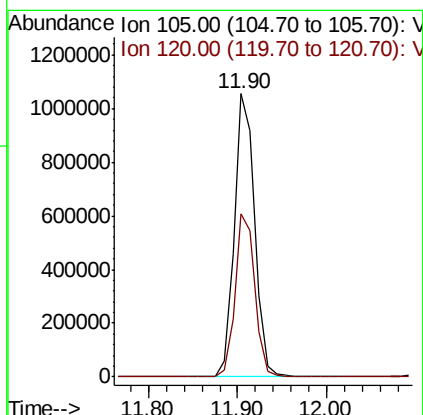
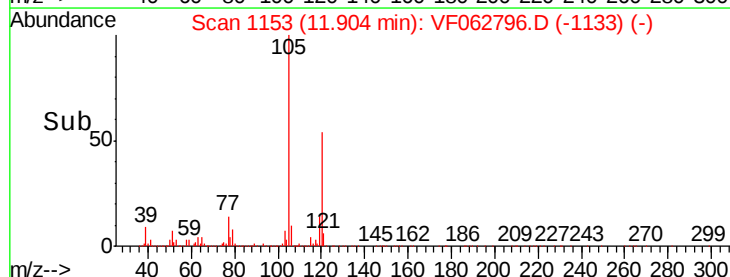
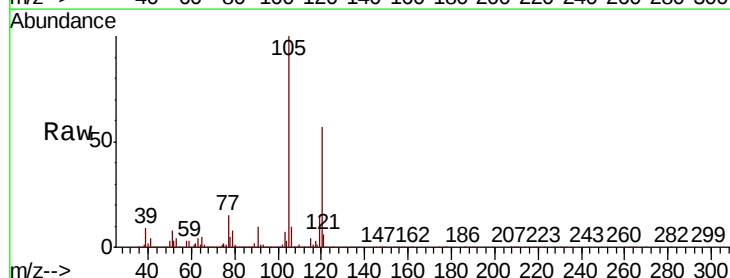
Acq: 30 May 2019 15:31

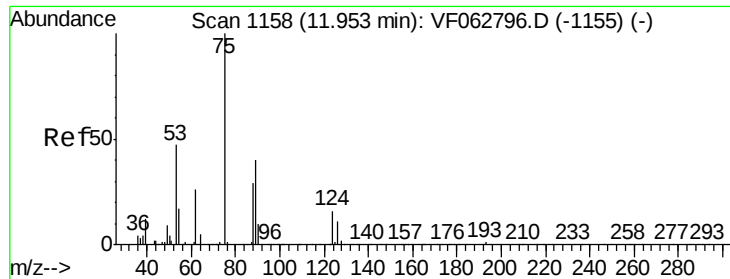
Tgt Ion: 105 Resp: 1690827

Ion Ratio Lower Upper

105 100

120 57.4 28.7 86.1





#81

trans-1,4-Dichloro-2-butene

Concen: 50.877 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

ClientSampleId :

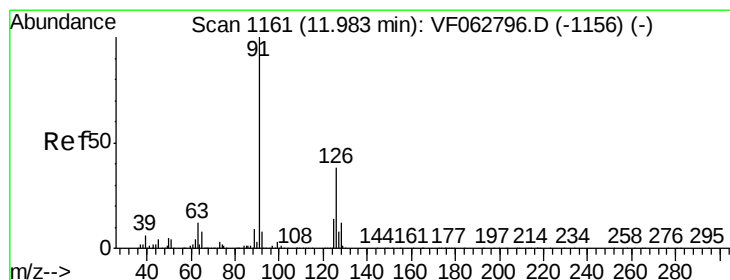
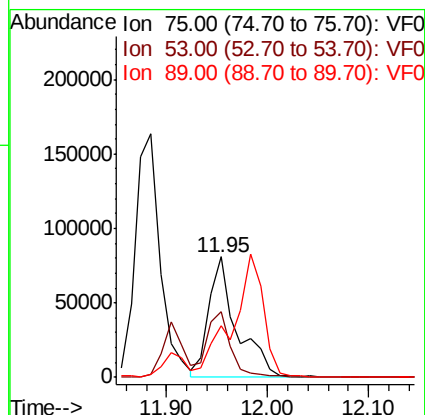
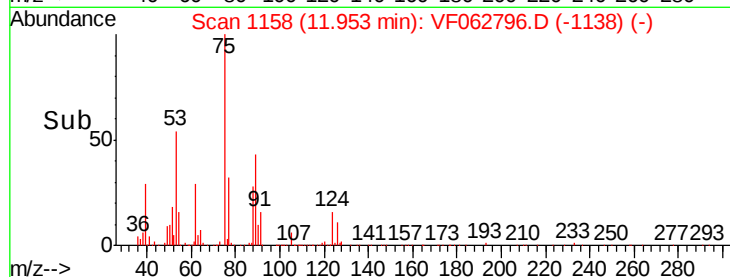
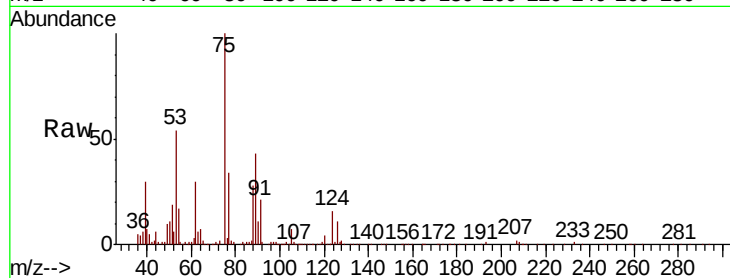
Tot Ion: 75 Resp: 157412

Ion Ratio Lower Upper

75 100

53 54.4 43.5 65.3

89 42.9 34.3 51.5



#82

4-Chlorotoluene

Concen: 48.205 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VF062796.D

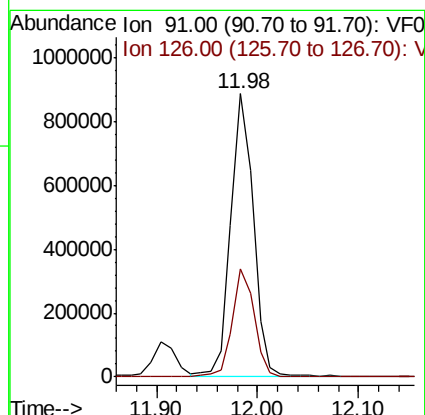
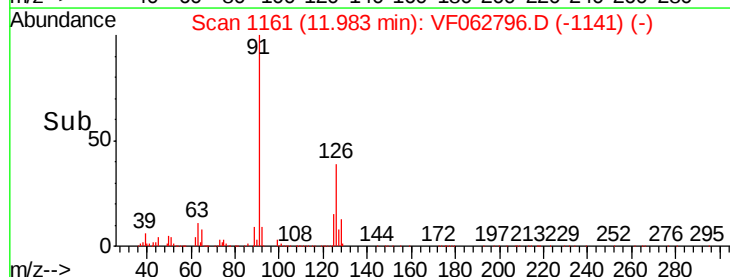
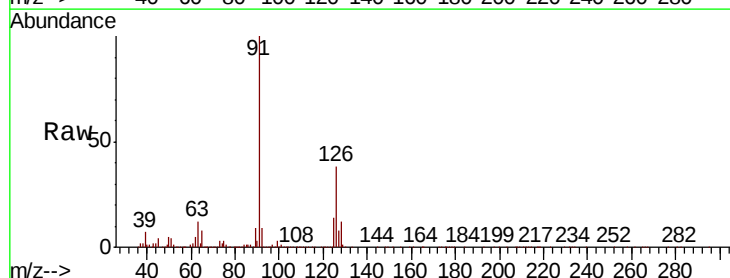
Acq: 30 May 2019 15:31

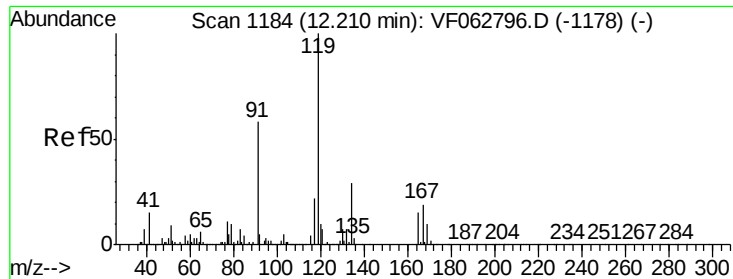
Tgt Ion: 91 Resp: 1384542

Ion Ratio Lower Upper

91 100

126 38.1 19.1 57.1

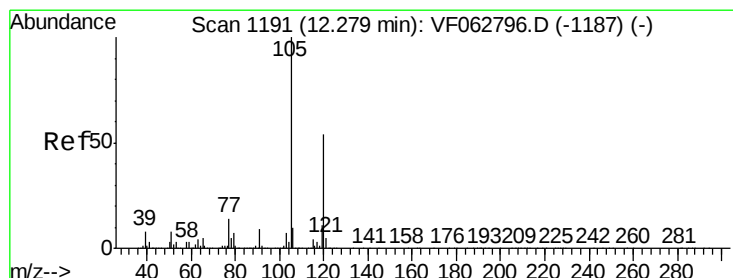
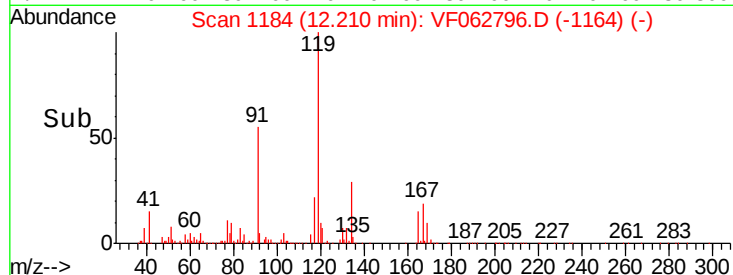
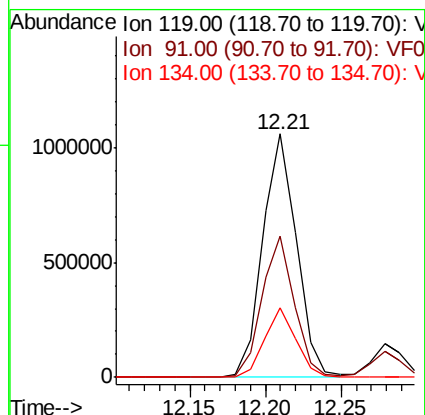
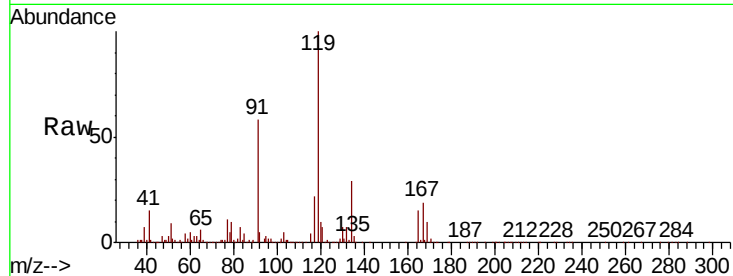




#83  
tert-Butylbenzene  
Concen: 48.764 ug/l  
RT: 12.21 min Scan# 1184  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

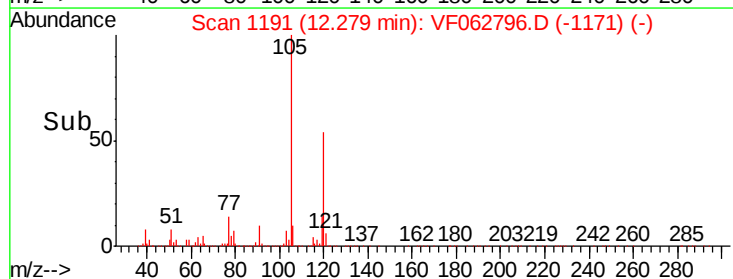
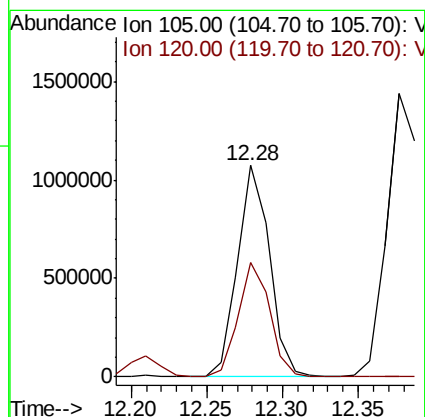
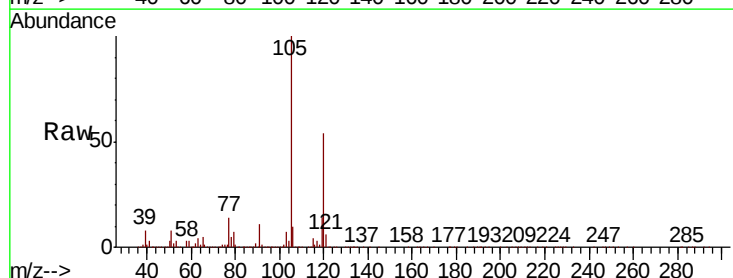
Instrument :  
MSVOA\_F  
ClientSampled :

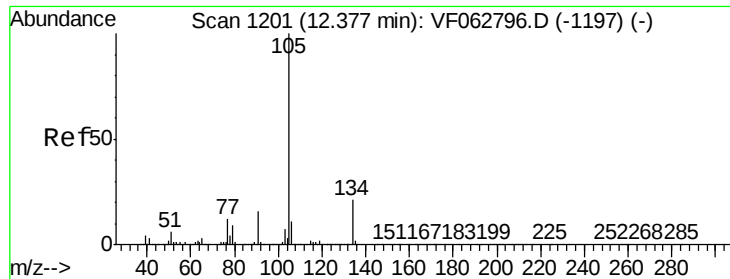
Tot Ion:119 Resp: 1646180  
Ion Ratio Lower Upper  
119 100  
91 57.8 28.9 86.7  
134 28.6 14.3 42.9



#84  
1,2,4-Trimethylbenzene  
Concen: 47.736 ug/l  
RT: 12.28 min Scan# 1191  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Tgt Ion:105 Resp: 1583597  
Ion Ratio Lower Upper  
105 100  
120 54.2 27.1 81.3





#85

sec-Butylbenzene

Concen: 49.299 ug/l

RT: 12.38 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

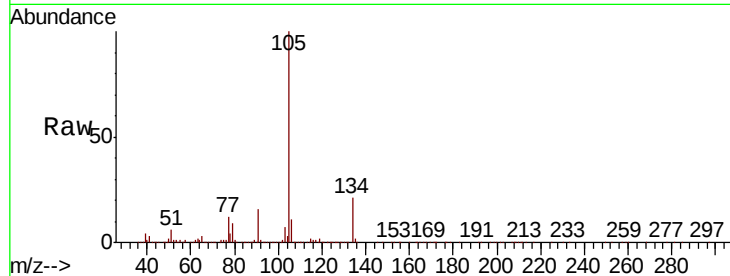
ClientSampleId :

Tot Ion:105 Resp: 2274075

Ion Ratio Lower Upper

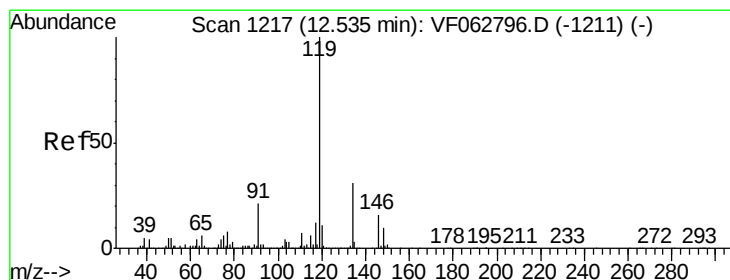
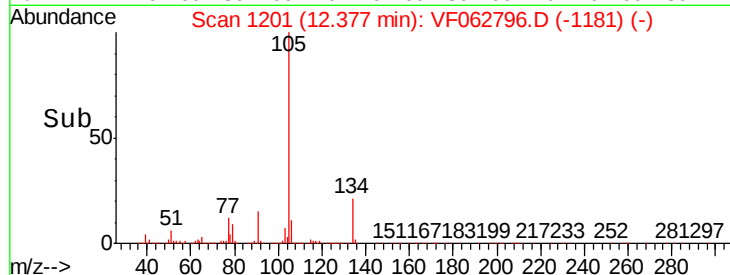
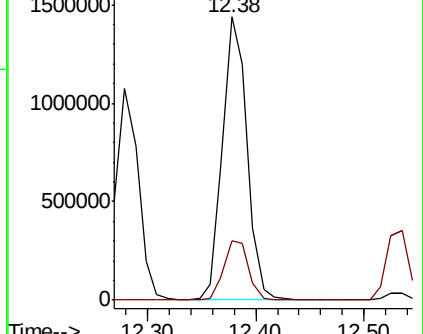
105 100

134 21.1 10.5 31.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 47.477 ug/l

RT: 12.54 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

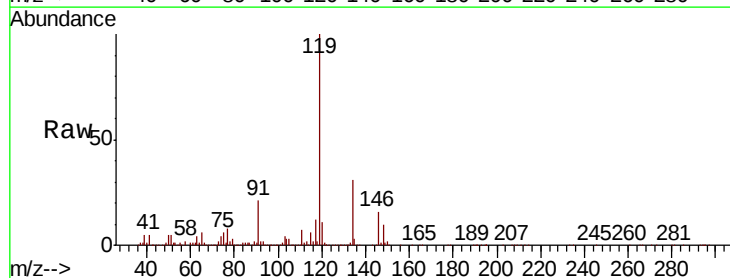
Tgt Ion:119 Resp: 1801686

Ion Ratio Lower Upper

119 100

134 31.0 15.5 46.5

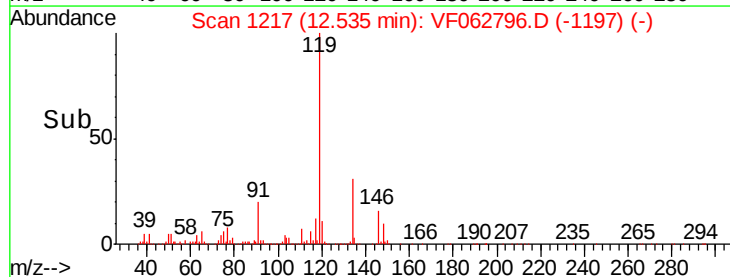
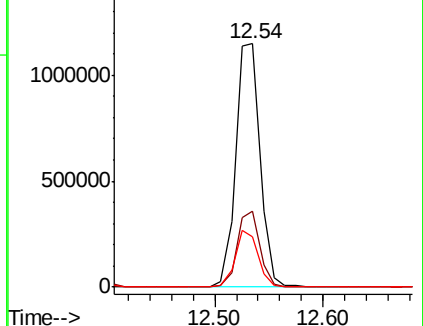
91 20.6 10.3 30.9

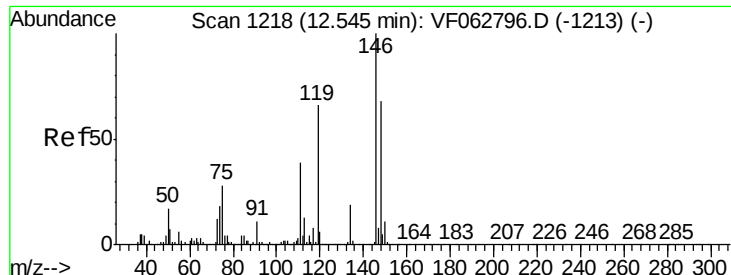


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

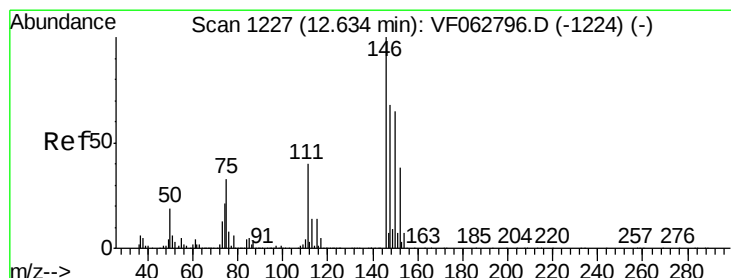
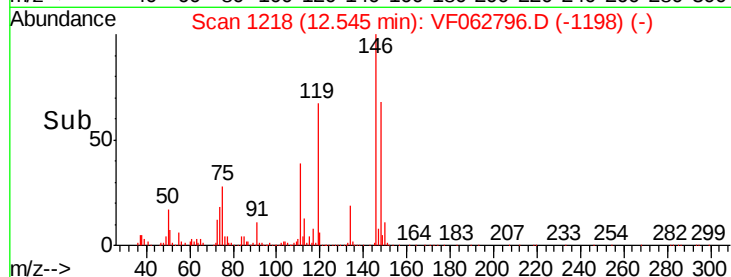
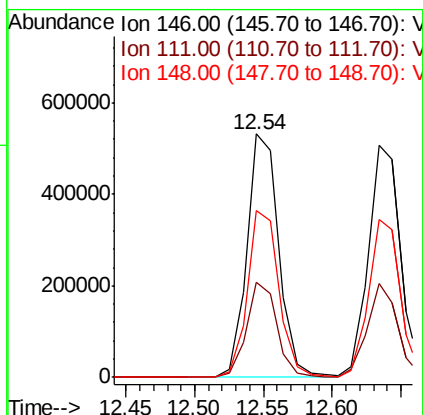
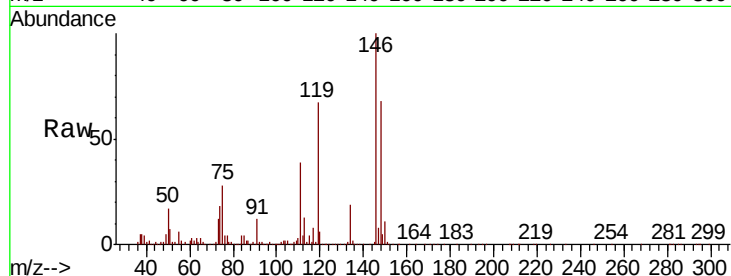




#87  
 1,3-Dichlorobenzene  
 Concen: 45.965 ug/l  
 RT: 12.54 min Scan# 1218  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

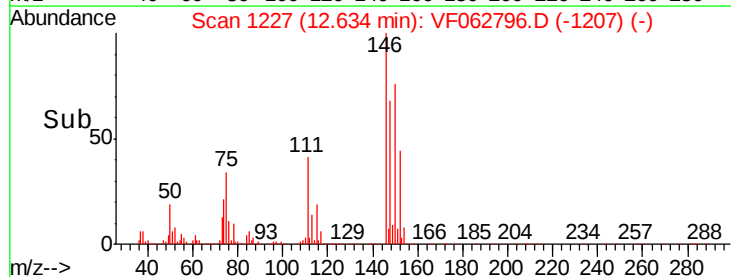
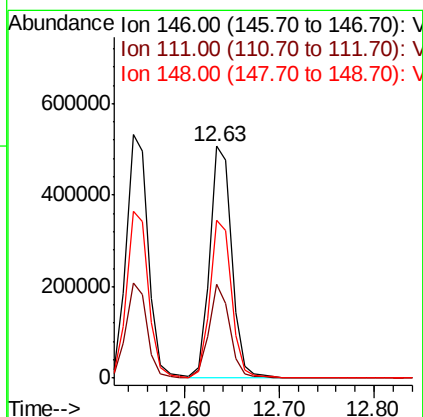
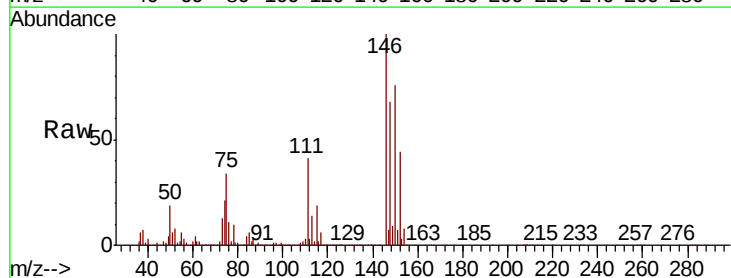
Instrument :  
 MSVOA\_F  
 ClientSampled :

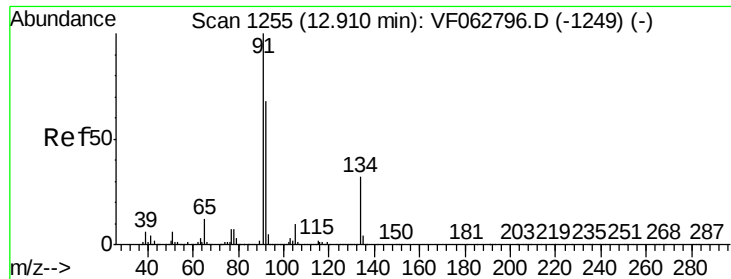
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.2  | 19.6  | 58.8  |
| 148     | 68.3  | 34.2  | 102.5 |



#88  
 1,4-Dichlorobenzene  
 Concen: 47.091 ug/l  
 RT: 12.63 min Scan# 1227  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.6  | 20.3  | 60.9  |
| 148     | 67.9  | 34.0  | 101.8 |





#89

n-Butylbenzene

Concen: 44.975 ug/l

RT: 12.91 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VF062796.D

Acq: 30 May 2019 15:31

Instrument :

MSVOA\_F

ClientSampleId :

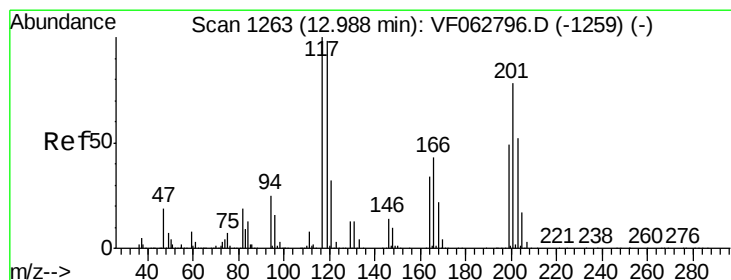
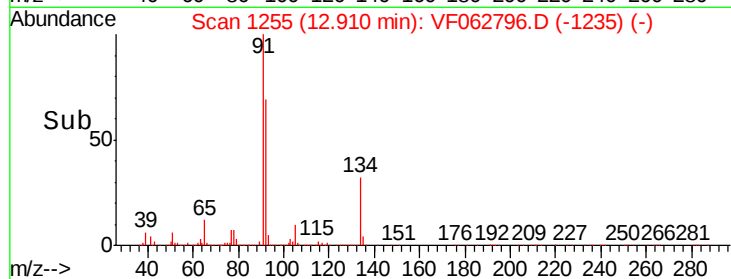
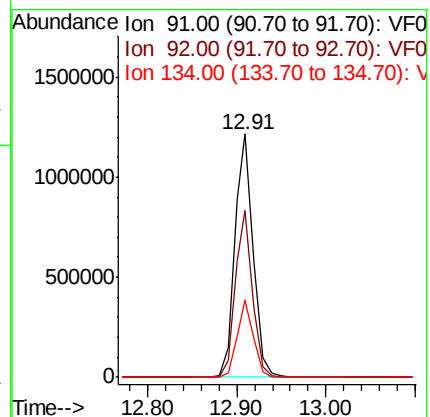
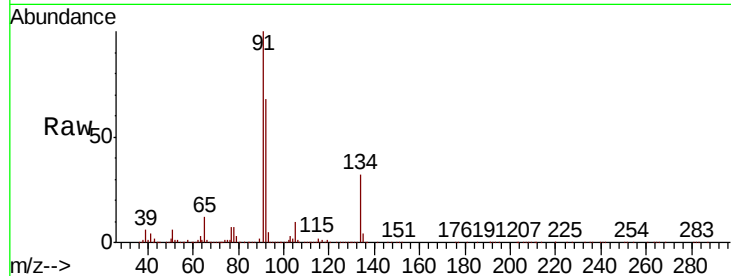
Tot Ion: 91 Resp: 1759326

Ion Ratio Lower Upper

91 100

92 68.4 34.2 102.6

134 31.5 15.8 47.3



#90

Hexachloroethane

Concen: 51.551 ug/l

RT: 12.99 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VF062796.D

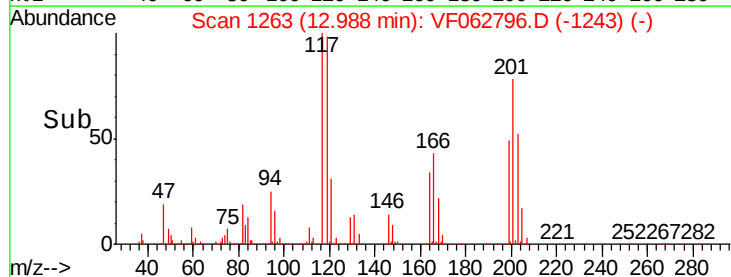
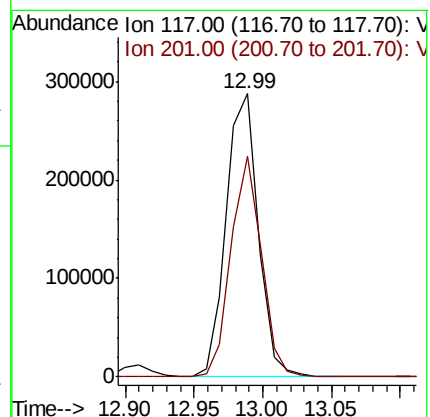
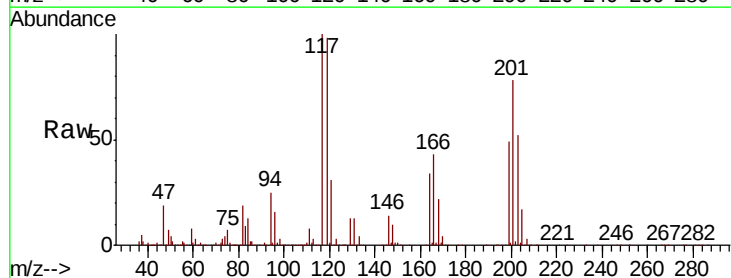
Acq: 30 May 2019 15:31

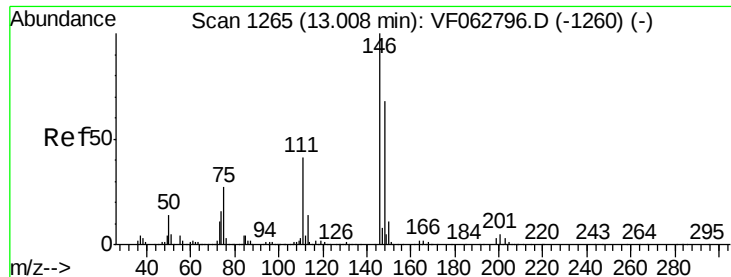
Tgt Ion: 117 Resp: 464491

Ion Ratio Lower Upper

117 100

201 77.8 38.9 116.7

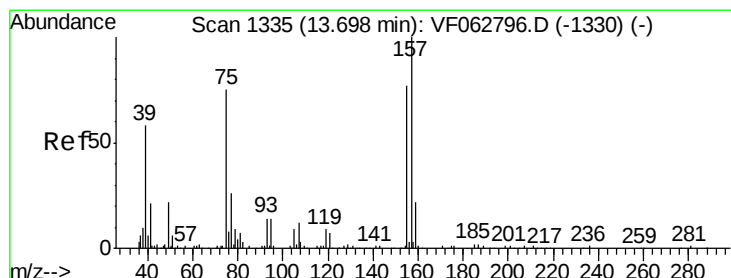
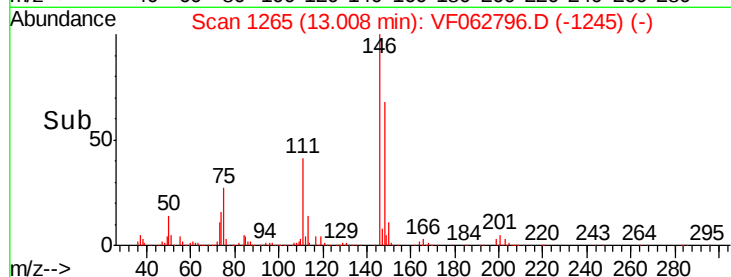
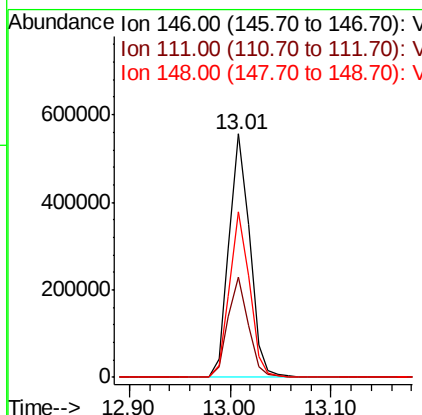
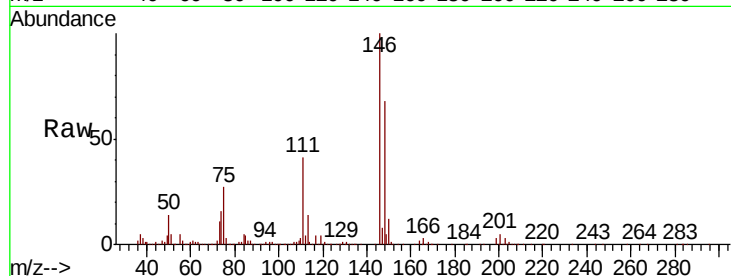




#91  
 1,2-Dichlorobenzene  
 Concen: 48.180 ug/l  
 RT: 13.01 min Scan# 1265  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

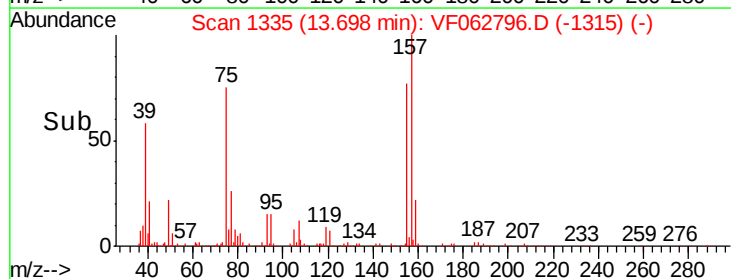
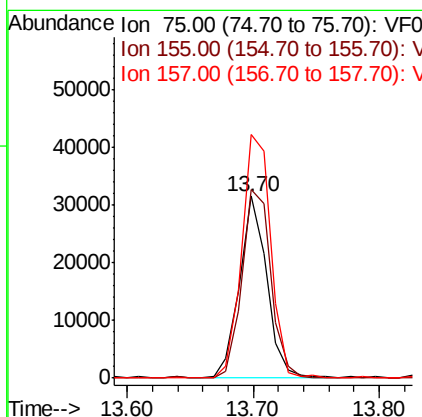
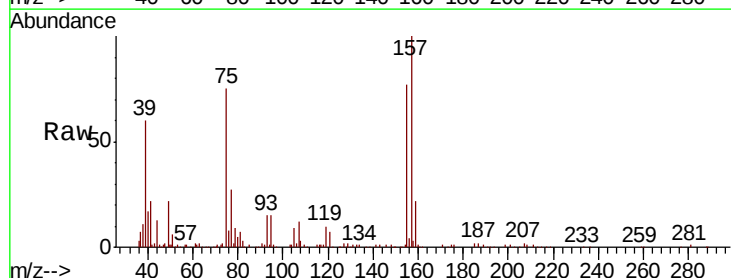
Instrument :  
 MSVOA\_F  
 ClientSampleId :

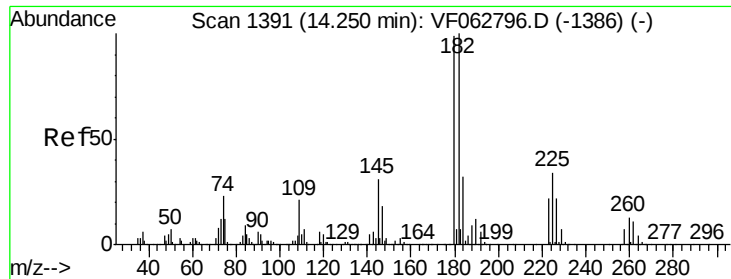
Tot Ion:146 Resp: 793002  
 Ion Ratio Lower Upper  
 146 100  
 111 40.9 20.4 61.3  
 148 68.2 34.1 102.3



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 48.519 ug/l  
 RT: 13.70 min Scan# 1335  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

Tgt Ion: 75 Resp: 47575  
 Ion Ratio Lower Upper  
 75 100  
 155 103.4 51.7 155.1  
 157 133.7 66.8 200.6

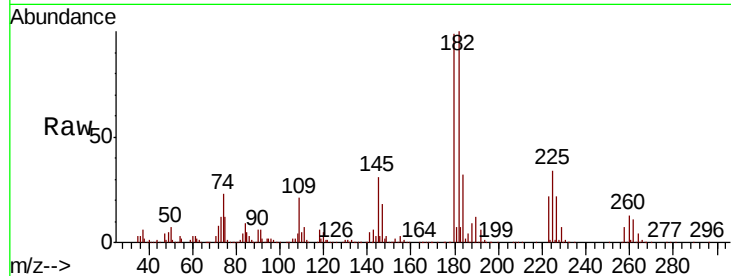




#93  
 1,2,4-Trichlorobenzene  
 Concen: 49.250 ug/l  
 RT: 14.25 min Scan# 1391  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

Instrument :  
 MSVOA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 100.6 | 50.3  | 150.9 |
| 145     | 30.8  | 15.4  | 46.2  |

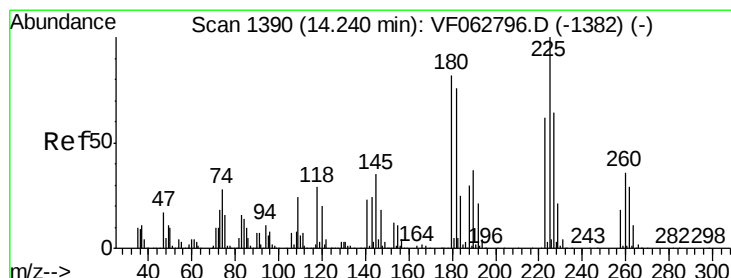
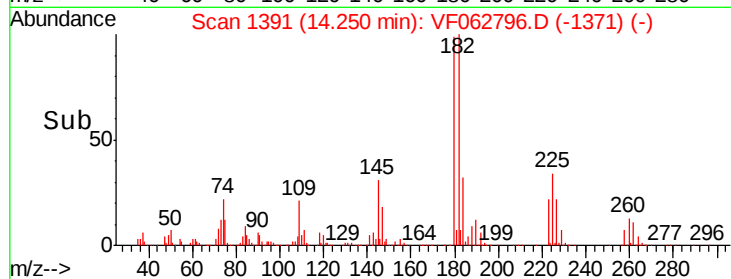
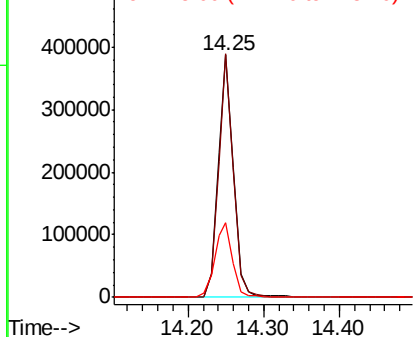


Abundance

Ion 180.00 (179.70 to 180.70): V

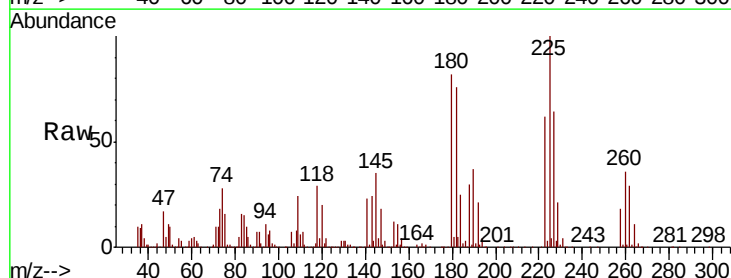
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94  
 Hexachlorobutadiene  
 Concen: 51.121 ug/l  
 RT: 14.24 min Scan# 1390  
 Delta R.T. 0.00 min  
 Lab File: VF062796.D  
 Acq: 30 May 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 61.6  | 30.8  | 92.4  |
| 227     | 63.7  | 31.9  | 95.5  |

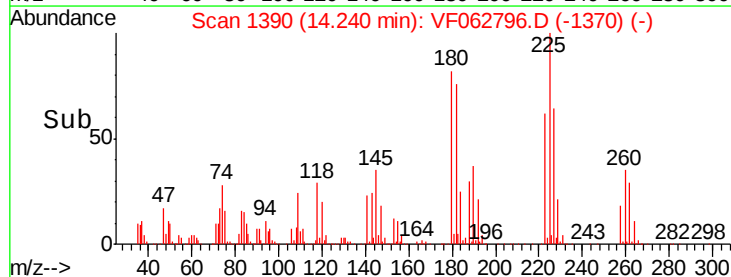
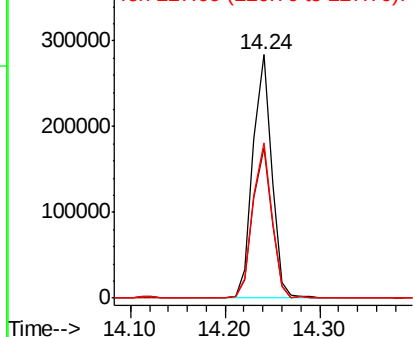


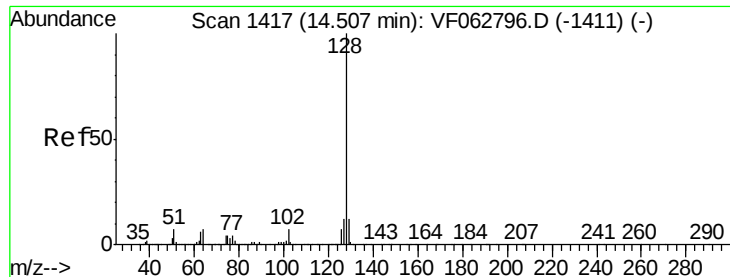
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V

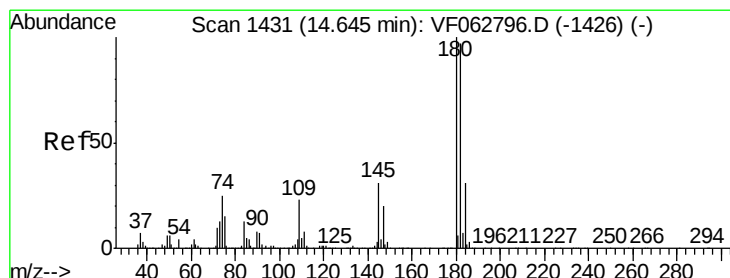
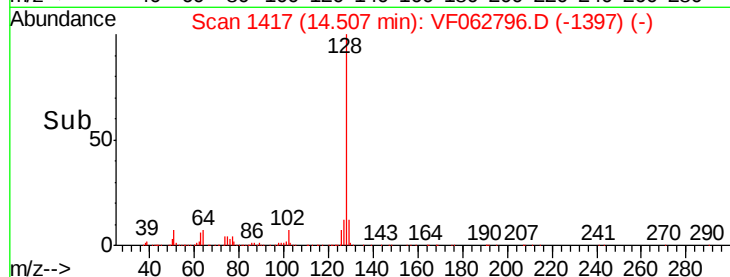
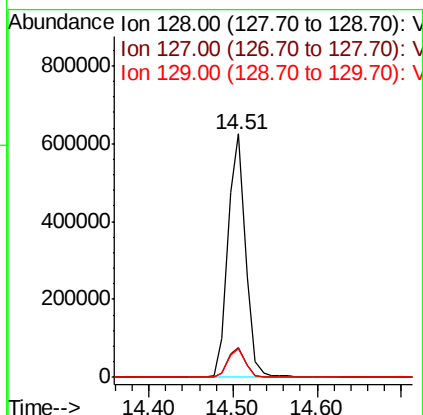
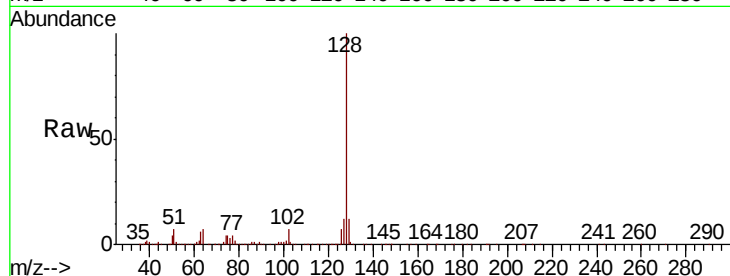




#95  
Naphthalene  
Concen: 51.199 ug/l  
RT: 14.51 min Scan# 1417  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

Instrument :  
MSVOA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.1  | 9.7   | 14.5  |
| 129     | 11.8  | 9.4   | 14.2  |



#96  
1,2,3-Trichlorobenzene  
Concen: 50.352 ug/l  
RT: 14.64 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VF062796.D  
Acq: 30 May 2019 15:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.3  | 48.6  | 145.9 |
| 145     | 31.3  | 15.7  | 47.0  |

