

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051419\  
 Data File : VF062586.D  
 Acq On : 14 May 2019 16:52  
 Operator : FY/SY  
 Sample : VSTDICCC050  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

Quant Time: May 15 04:56:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 15 04:31:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.09  | 168  | 582315   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.81  | 114  | 989696   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.94  | 117  | 718548   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 367967   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.07  | 65   | 215789   | 34.21 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 68.42% |          |
| 35) Dibromofluoromethane    | 4.34  | 113  | 363320   | 49.29 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.58% |          |
| 50) Toluene-d8              | 7.74  | 98   | 876585   | 42.27 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.54% |          |
| 62) 4-Bromofluorobenzene    | 11.51 | 95   | 305535   | 36.88 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 73.76% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.00 | 85   | 249459   | 31.126  | ug/l  | 100    |
| 3) Chloromethane              | 1.15 | 50   | 285493   | 40.895  | ug/l  | 100    |
| 4) Vinyl Chloride             | 1.20 | 62   | 292259   | 42.250  | ug/l  | 100    |
| 5) Bromomethane               | 1.39 | 94   | 148708   | 27.380  | ug/l  | 100    |
| 6) Chloroethane               | 1.45 | 64   | 113489   | 31.773  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 1.57 | 101  | 407944   | 40.604  | ug/l  | 100    |
| 8) Diethyl Ether              | 1.72 | 74   | 90531    | 42.550  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 1.92 | 101  | 284560   | 43.395  | ug/l  | 100    |
| 10) Methyl Iodide             | 1.99 | 142  | 489827   | 44.010  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 2.71 | 59   | 64387    | 217.614 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 1.88 | 96   | 244623   | 41.199  | ug/l  | 100    |
| 13) Acrolein                  | 2.12 | 56   | 28209    | 98.733  | ug/l  | 100    |
| 14) Allyl chloride            | 2.22 | 41   | 259239m  | 34.551  | ug/l  |        |
| 15) Acrylonitrile             | 3.10 | 53   | 183304   | 207.134 | ug/l  | 100    |
| 16) Acetone                   | 2.37 | 43   | 223087   | 183.162 | ug/l  | 100    |
| 17) Carbon Disulfide          | 1.92 | 76   | 563198   | 30.949  | ug/l  | 100    |
| 18) Methyl Acetate            | 2.47 | 43   | 91985    | 31.171  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 2.56 | 73   | 466800   | 43.468  | ug/l  | 100    |
| 20) Methylene Chloride        | 2.31 | 84   | 261301m  | 36.652  | ug/l  |        |
| 21) trans-1,2-Dichloroethene  | 2.44 | 96   | 229141   | 42.896  | ug/l  | 100    |
| 22) Diisopropyl ether         | 2.96 | 45   | 623026   | 35.940  | ug/l  | 100    |
| 23) Vinyl Acetate             | 3.37 | 43   | 1719084  | 206.274 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 3.04 | 63   | 441986   | 42.186  | ug/l  | 100    |
| 25) 2-Butanone                | 4.54 | 43   | 499593   | 218.623 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 3.80 | 77   | 249814   | 44.902  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 3.68 | 96   | 352693   | 49.846  | ug/l  | 100    |
| 28) Bromochloromethane        | 3.93 | 49   | 266720   | 56.366  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 4.29 | 42   | 207080   | 209.935 | ug/l  | 100    |
| 30) Chloroform                | 4.08 | 83   | 558496   | 44.235  | ug/l  | 100    |
| 31) Cyclohexane               | 3.91 | 56   | 425400   | 41.150  | ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 4.32 | 97   | 374443   | 44.993  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 4.50 | 75   | 386391   | 36.105  | ug/l  | 100    |
| 37) Ethyl Acetate             | 4.33 | 43   | 166495   | 33.627  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 4.22 | 117  | 320278   | 38.779  | ug/l  | 100    |

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 Sample : VSTDICCC050  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

Quant Time: May 15 04:56:08 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 15 04:31:17 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 5.67  | 83   | 440036   | 40.664   | ug/l  | 100      |
| 40) Benzene                    | 4.85  | 78   | 1118433  | 46.378   | ug/l  | 100      |
| 41) Methacrylonitrile          | 4.97  | 41   | 98147    | 35.175   | ug/l  | 100      |
| 42) 1,2-Dichloroethane         | 5.15  | 62   | 236705   | 28.066   | ug/l  | 100      |
| 43) Isopropyl Acetate          | 7.14  | 43   | 192390   | 36.000   | ug/l  | 100      |
| 44) Trichloroethene            | 5.72  | 130  | 298871   | 40.967   | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 6.44  | 63   | 282116   | 49.156   | ug/l  | 100      |
| 46) Dibromomethane             | 6.29  | 93   | 165553   | 43.308   | ug/l  | 100      |
| 47) Bromodichloromethane       | 6.57  | 83   | 358645   | 35.532   | ug/l  | 100      |
| 48) Methyl methacrylate        | 6.90  | 41   | 107662   | 27.128   | ug/l  | 100      |
| 49) 1,4-Dioxane                | 6.90  | 88   | 25902    | 1003.078 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.43  | 43   | 727536   | 180.504  | ug/l  | 100      |
| 52) Toluene                    | 7.81  | 92   | 572281   | 38.252   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 8.45  | 75   | 280917   | 34.674   | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 7.48  | 75   | 399127   | 39.693   | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 8.66  | 97   | 177796   | 42.479   | ug/l  | 100      |
| 56) Ethyl methacrylate         | 8.78  | 69   | 191387   | 34.890   | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 9.02  | 76   | 285513   | 40.509   | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 7.47  | 63   | 307435   | 354.383  | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.64  | 43   | 477302   | 168.164  | ug/l  | 100      |
| 60) Dibromochloromethane       | 8.88  | 129  | 227687   | 38.198   | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 9.16  | 107  | 174459   | 39.634   | ug/l  | 100      |
| 64) Tetrachloroethene          | 8.33  | 164  | 213795   | 40.835   | ug/l  | 100      |
| 65) Chlorobenzene              | 9.96  | 112  | 588500   | 42.595   | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.08 | 131  | 250654   | 42.036   | ug/l  | 100      |
| 67) Ethyl Benzene              | 10.05 | 91   | 1079740  | 40.430   | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.28 | 106  | 757187   | 79.125   | ug/l  | 100      |
| 69) o-Xylene                   | 10.83 | 106  | 405383   | 42.114   | ug/l  | 100      |
| 70) Styrene                    | 10.91 | 104  | 613448   | 41.650   | ug/l  | 100      |
| 71) Bromoform                  | 10.90 | 173  | 124071   | 40.730   | ug/l  | 100      |
| 73) Isopropylbenzene           | 11.23 | 105  | 1140083  | 38.384   | ug/l  | 100      |
| 74) N-amyl acetate             | 11.46 | 43   | 278802   | 35.074   | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.79 | 83   | 228134   | 47.030   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.89 | 75   | 144502   | 39.689   | ug/l  | 100      |
| 77) Bromobenzene               | 11.59 | 156  | 257354   | 40.921   | ug/l  | 100      |
| 78) n-propylbenzene            | 11.69 | 91   | 1311679  | 37.948   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.81 | 91   | 737490   | 37.353   | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.91 | 105  | 886274   | 35.808   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.96 | 75   | 64269m   | 43.889   | ug/l  |          |
| 82) 4-Chlorotoluene            | 11.99 | 91   | 713842   | 35.764   | ug/l  | 100      |
| 83) tert-Butylbenzene          | 12.21 | 119  | 951211   | 37.961   | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 865250   | 35.095   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 12.38 | 105  | 1253679  | 39.270   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.53 | 119  | 1051980  | 37.091   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.55 | 146  | 495739   | 41.637   | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 12.64 | 146  | 468440   | 38.817   | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.91 | 91   | 1072574  | 38.887   | ug/l  | 100      |
| 90) Hexachloroethane           | 12.98 | 117  | 268261   | 40.264   | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 13.01 | 146  | 448984   | 39.826   | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 30720    | 30.507   | ug/l  | 100      |

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Data File : VF062586.D  
Acq On : 14 May 2019 16:52  
Operator : FY/SY  
Sample : VSTDICCC050  
Misc : 5.00g/5mL/MSVOA F/SOIL  
ALS Vial : 5 Sample Multiplier: 1

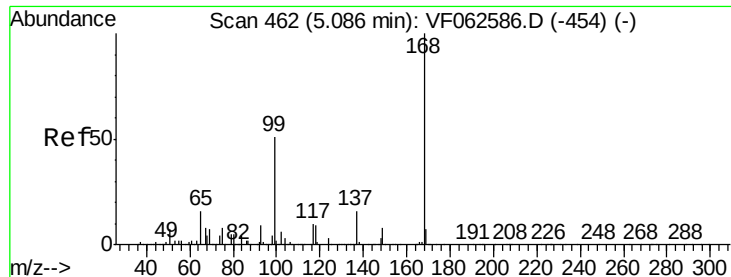
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

Quant Time: May 15 04:56:08 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051419S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 15 04:31:17 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.25 | 180  | 315116   | 38.300 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 14.24 | 225  | 226717   | 42.456 | ug/l  | 100      |
| 95) Naphthalene            | 14.51 | 128  | 533544   | 39.574 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.65 | 180  | 292908   | 40.806 | ug/l  | 100      |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.09 min Scan# 462

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

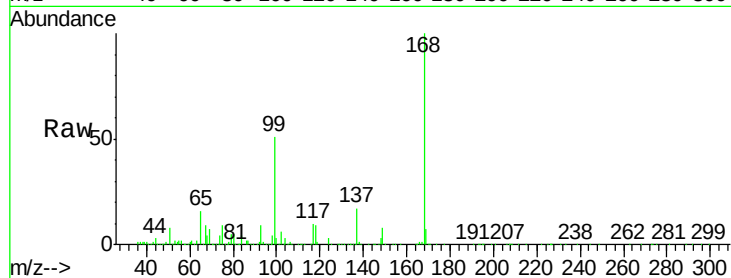
VSTDICCC050

Tot Ion:168 Resp: 582315

Ion Ratio Lower Upper

168 100

99 51.3 41.0 61.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.09

200000

150000

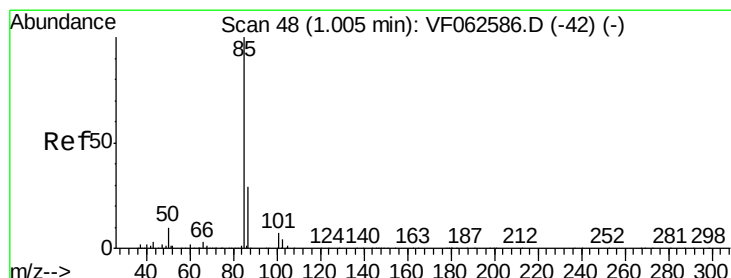
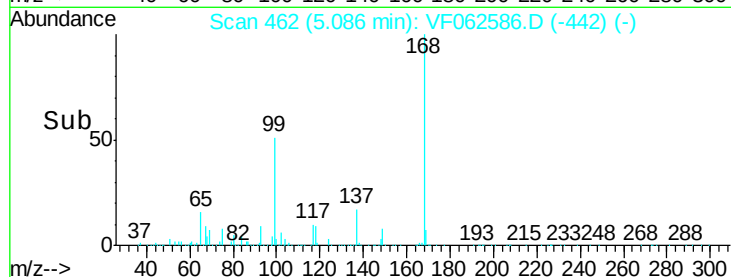
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50000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 31.126 ug/l

RT: 1.00 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062586.D

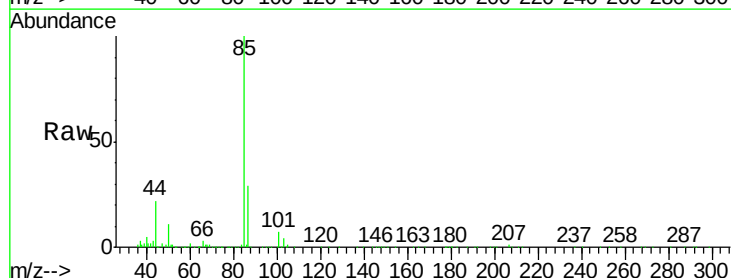
Acq: 14 May 2019 16:52

Tgt Ion: 85 Resp: 249459

Ion Ratio Lower Upper

85 100

87 29.2 14.6 43.8



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

80000

60000

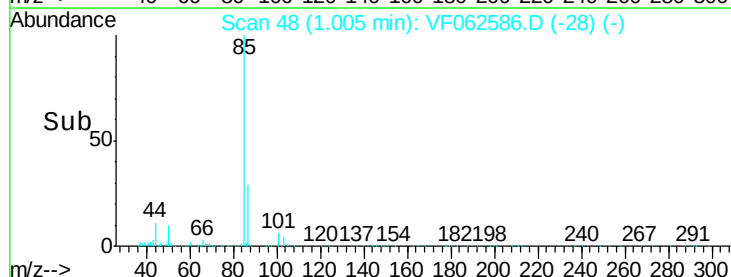
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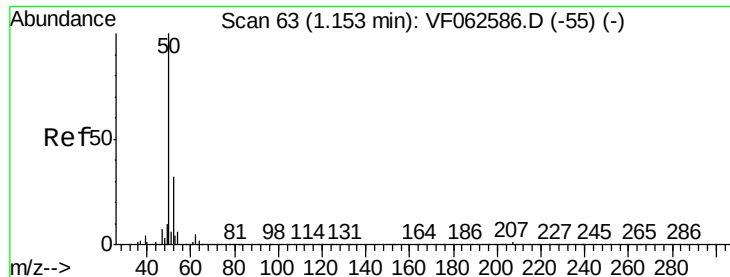
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Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 40.895 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

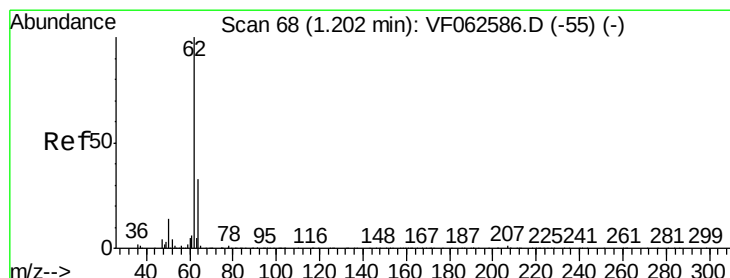
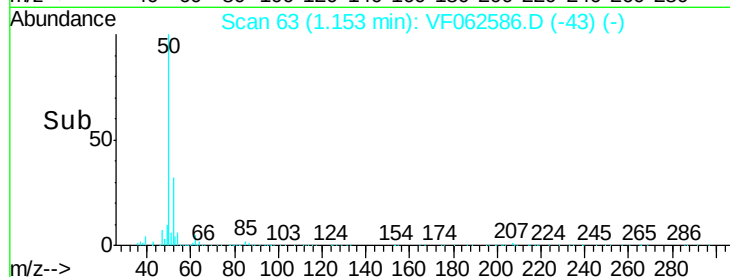
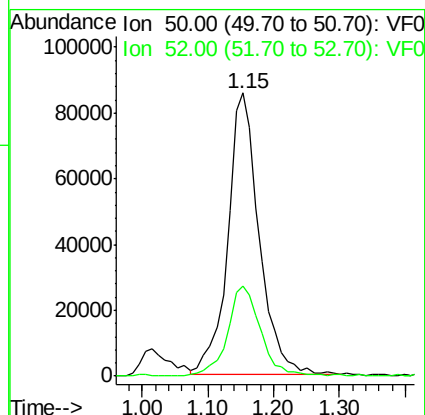
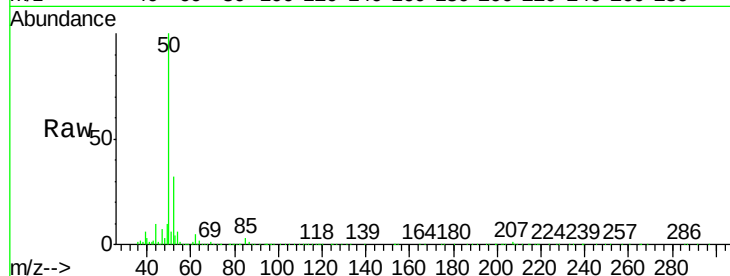
VSTDICCC050

Tot Ion: 50 Resp: 285493

Ion Ratio Lower Upper

50 100

52 31.6 25.3 37.9



#4

Vinyl Chloride

Concen: 42.250 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.00 min

Lab File: VF062586.D

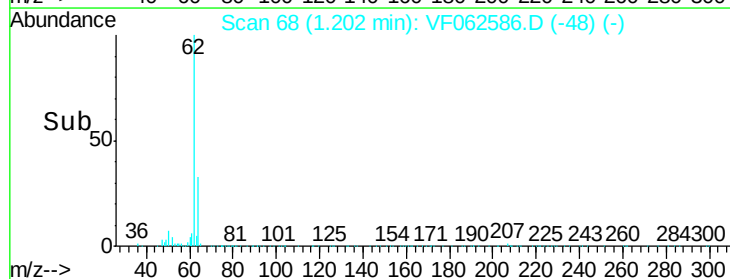
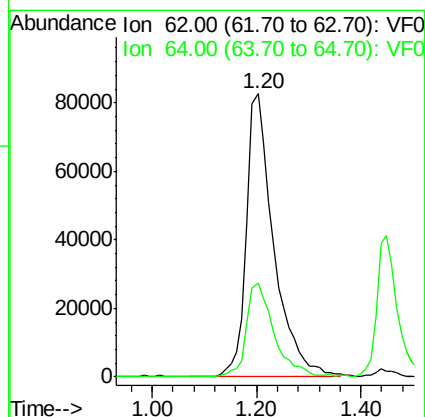
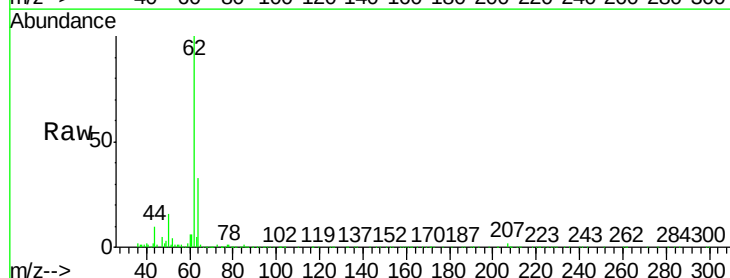
Acq: 14 May 2019 16:52

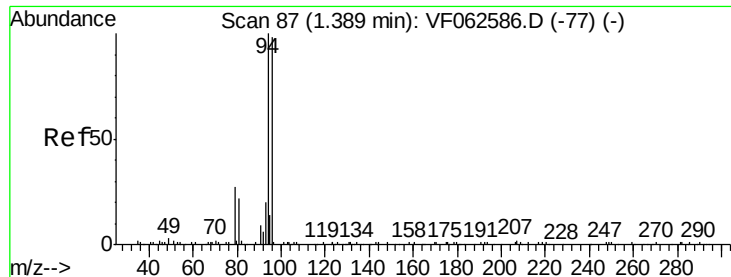
Tgt Ion: 62 Resp: 292259

Ion Ratio Lower Upper

62 100

64 33.1 26.5 39.7





#5

Bromomethane

Concen: 27.380 ug/l

RT: 1.39 min Scan# 87

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

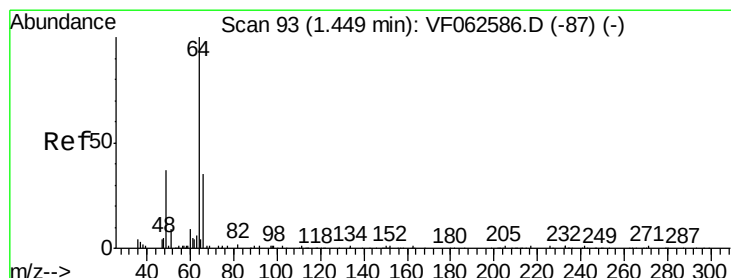
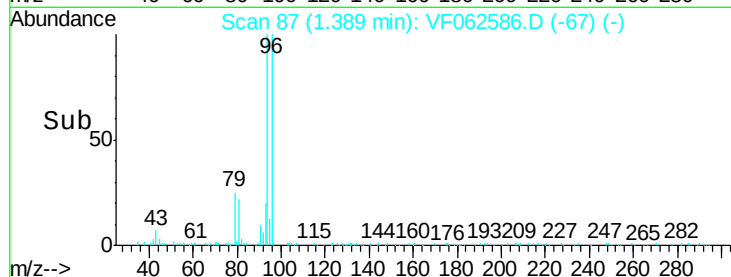
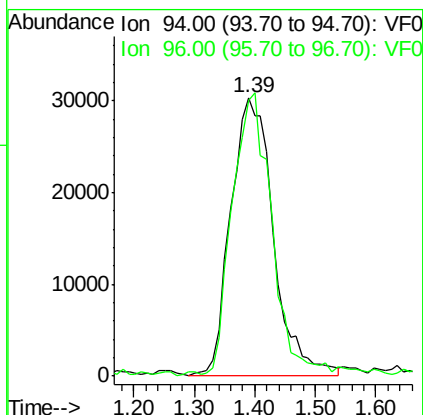
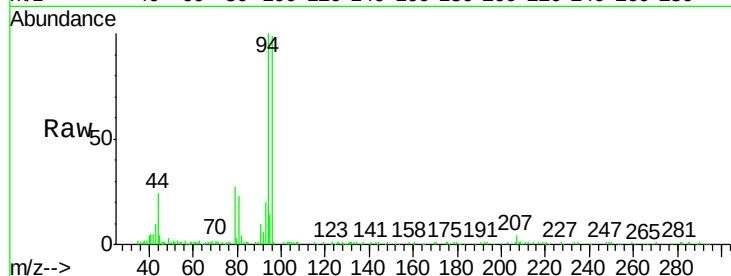
VSTDICCC050

Tot Ion: 94 Resp: 148708

Ion Ratio Lower Upper

94 100

96 99.1 79.3 118.9



#6

Chloroethane

Concen: 31.773 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.00 min

Lab File: VF062586.D

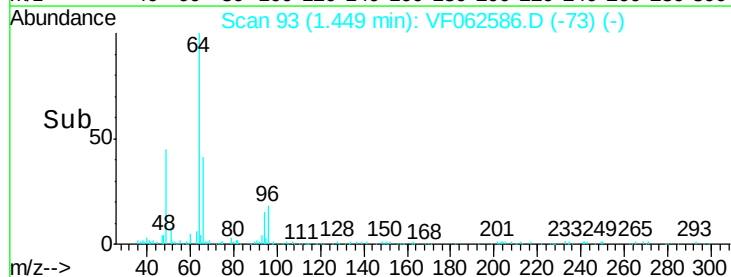
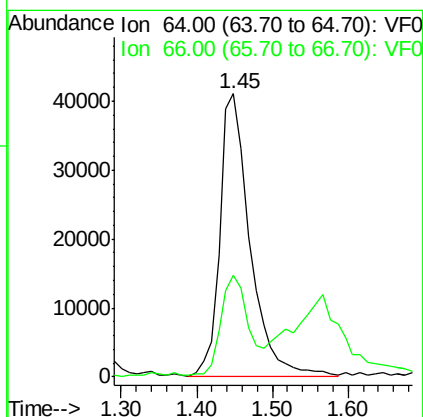
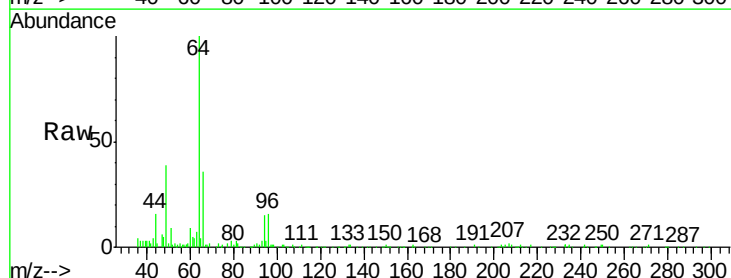
Acq: 14 May 2019 16:52

Tgt Ion: 64 Resp: 113489

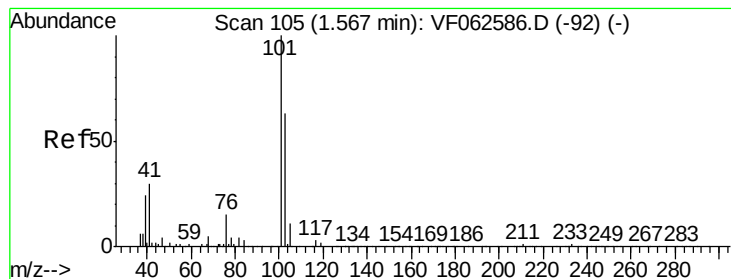
Ion Ratio Lower Upper

64 100

66 36.1 28.9 43.3





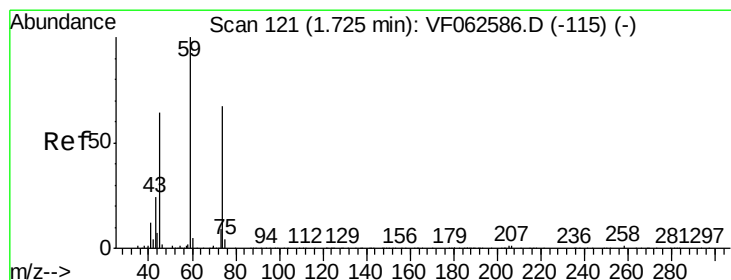
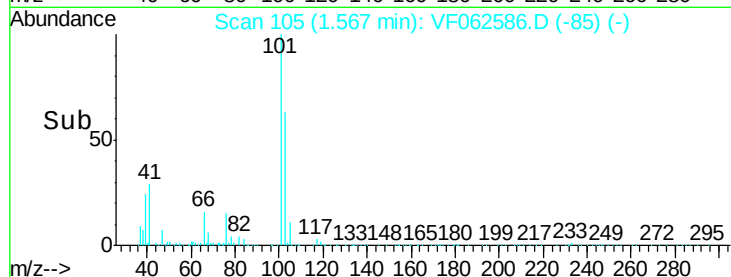
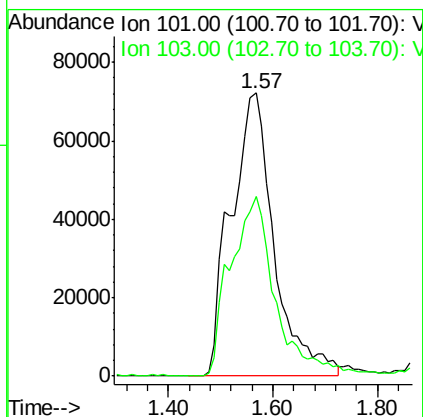
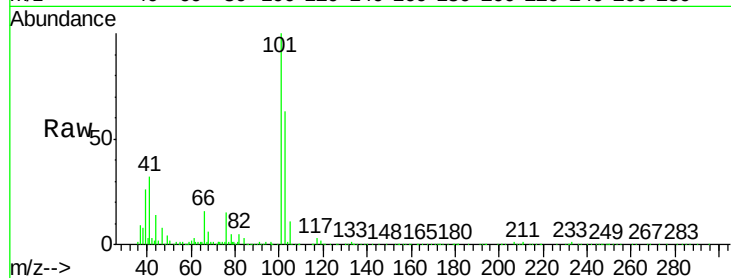


#7

Trichlorofluoromethane  
Concen: 40.604 ug/l  
RT: 1.57 min Scan# 105  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

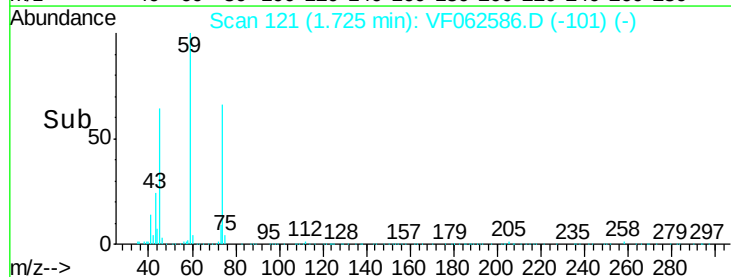
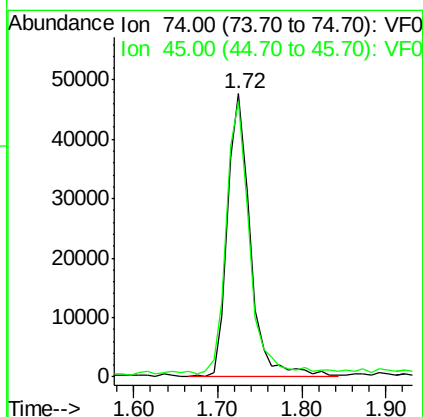
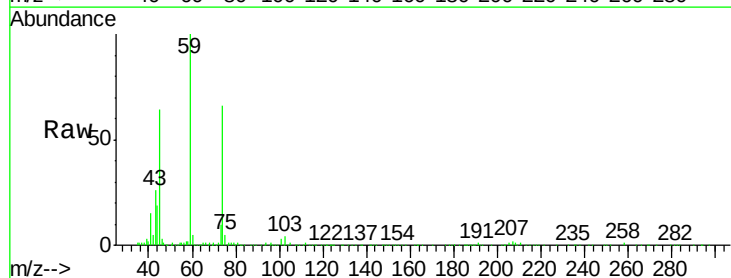
Tot Ion:101 Resp: 407944  
Ion Ratio Lower Upper  
101 100  
103 63.5 50.8 76.2



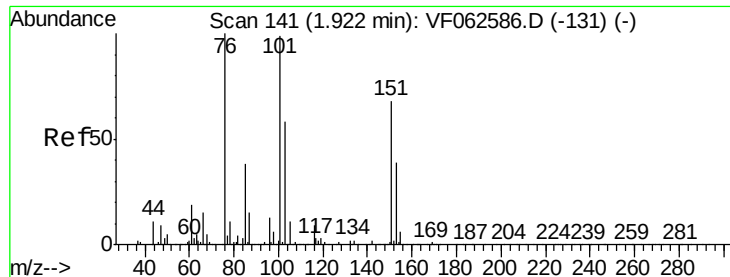
#8

Diethyl Ether  
Concen: 42.550 ug/l  
RT: 1.72 min Scan# 121  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Tgt Ion: 74 Resp: 90531  
Ion Ratio Lower Upper  
74 100  
45 97.2 48.6 145.8







#9

1,1,2-Trichlorotrifluoroethane

Concen: 43.395 ug/l

RT: 1.92 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

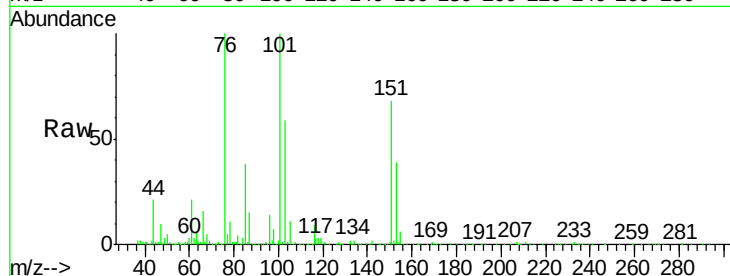
Tot Ion:101 Resp: 284560

Ion Ratio Lower Upper

101 100

85 37.8 30.2 45.4

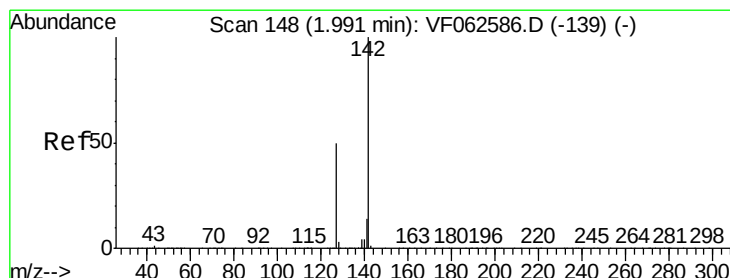
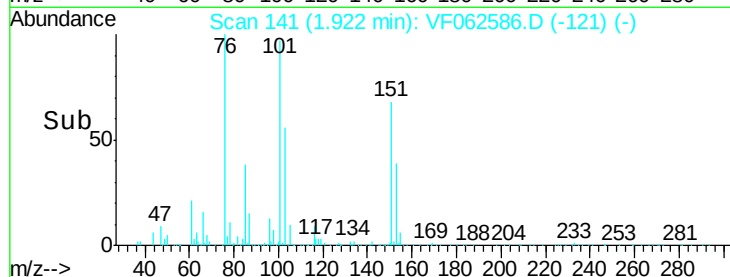
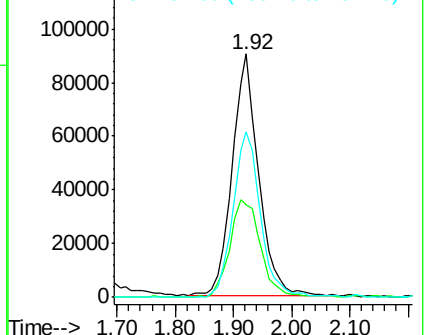
151 68.1 54.5 81.7



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: 44.010 ug/l

RT: 1.99 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

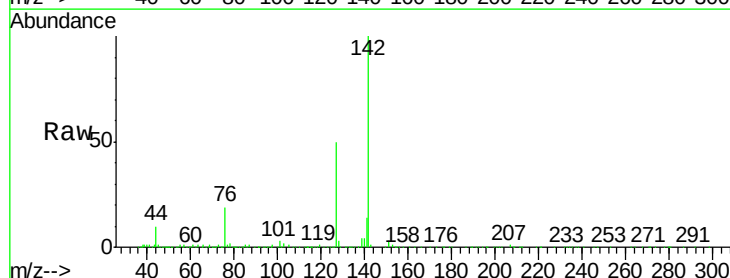
Tgt Ion:142 Resp: 489827

Ion Ratio Lower Upper

142 100

127 50.3 40.2 60.4

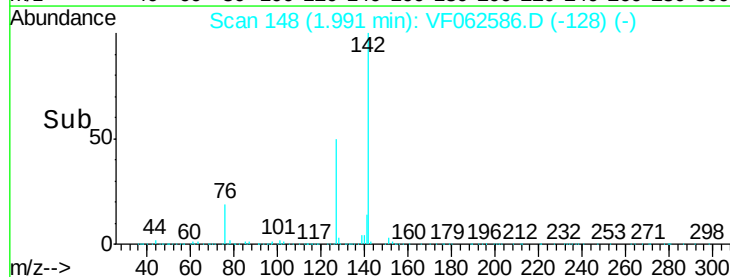
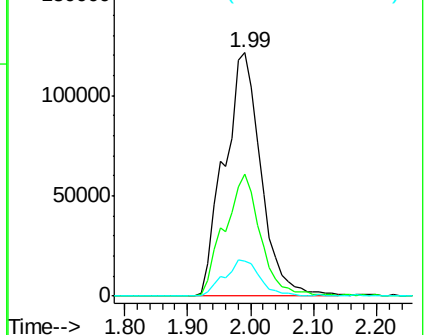
141 14.5 11.6 17.4

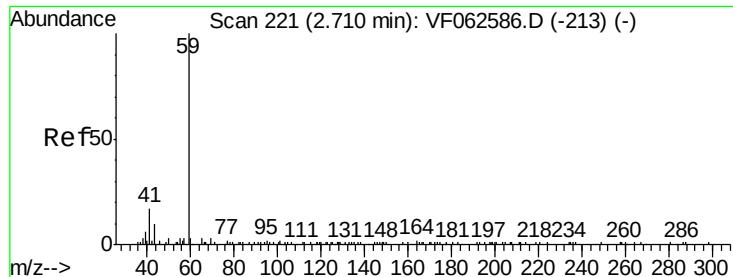


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



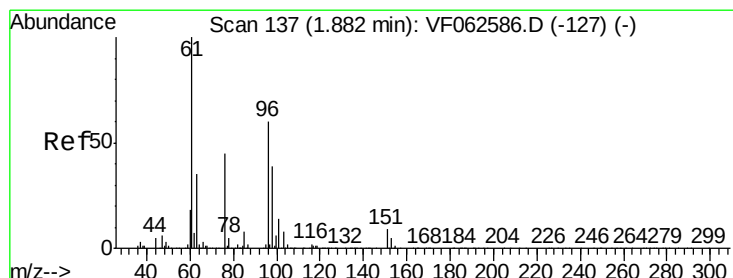
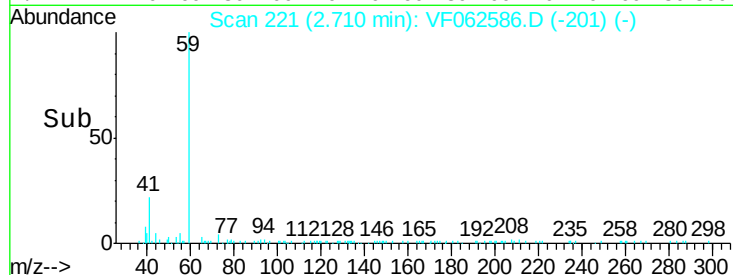
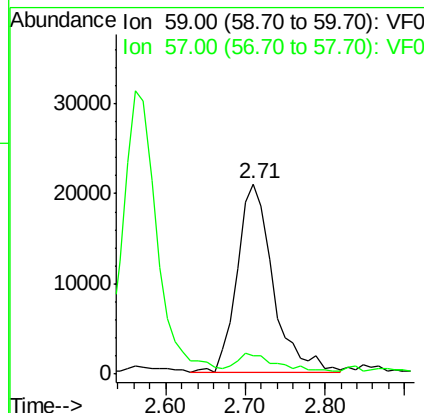
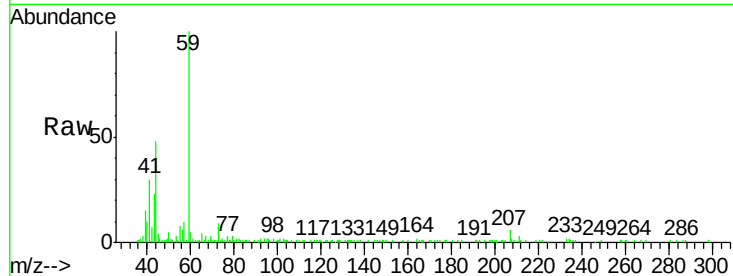


#11

Tert butyl alcohol  
Concen: 217.614 ug/l  
RT: 2.71 min Scan# 221  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

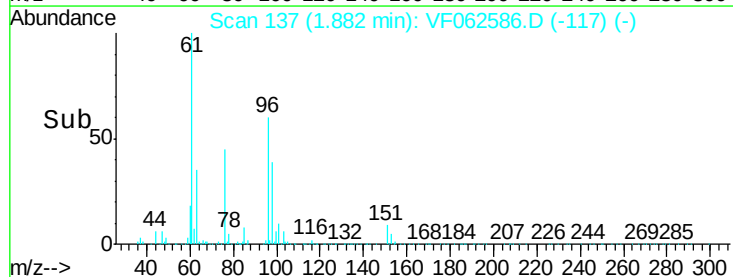
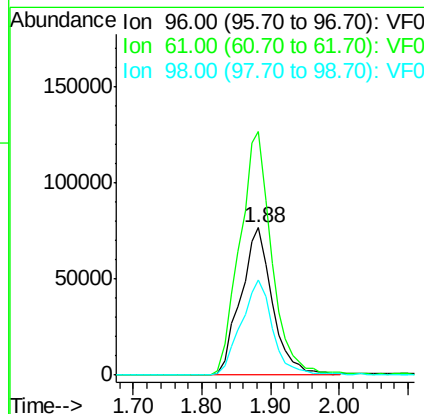
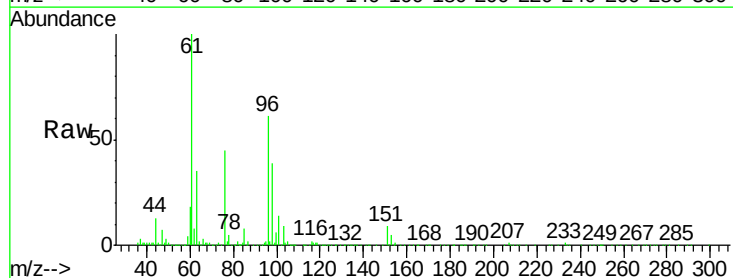
Tot Ion: 59 Resp: 64387  
Ion Ratio Lower Upper  
59 100  
57 10.0 8.0 12.0

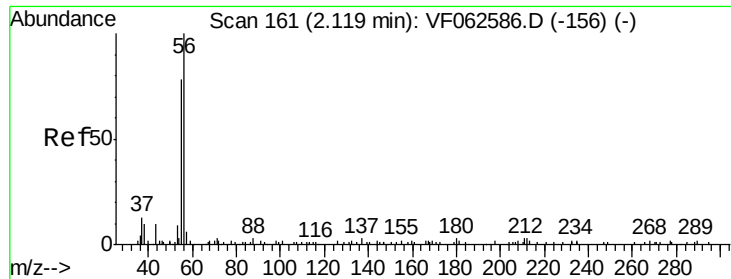


#12

1,1-Dichloroethene  
Concen: 41.199 ug/l  
RT: 1.88 min Scan# 137  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Tgt Ion: 96 Resp: 244623  
Ion Ratio Lower Upper  
96 100  
61 165.0 132.0 198.0  
98 64.1 51.3 76.9





#13

Acrolein

Concen: 98.733 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

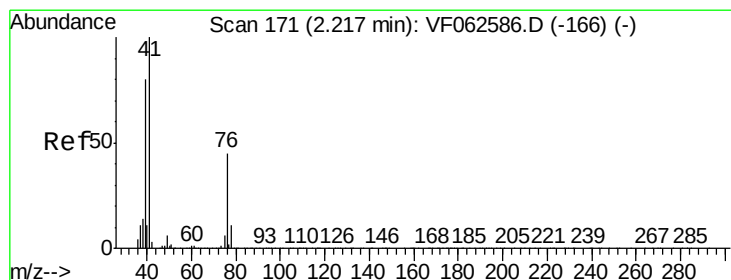
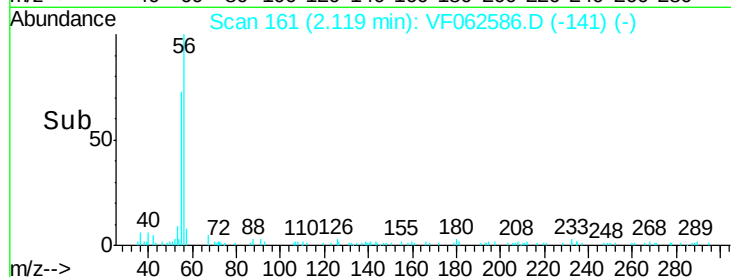
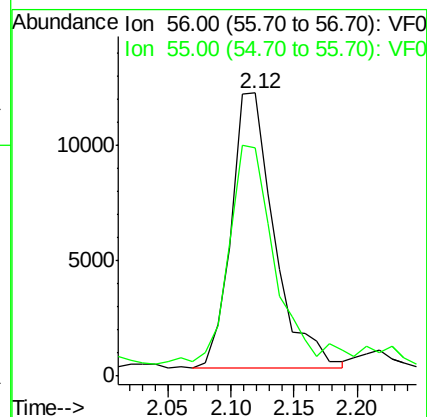
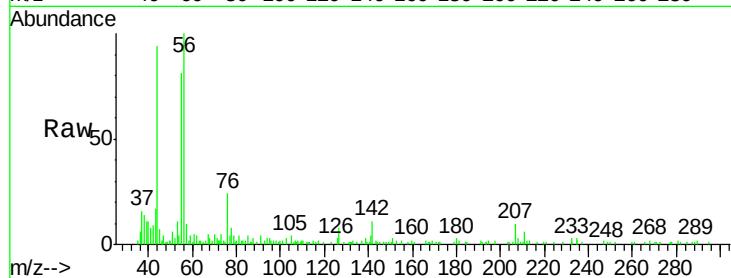
VSTDICCC050

Tot Ion: 56 Resp: 28209

Ion Ratio Lower Upper

56 100

55 80.7 64.6 96.8



#14

Allyl chloride

Concen: 34.551 ug/l m

RT: 2.22 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

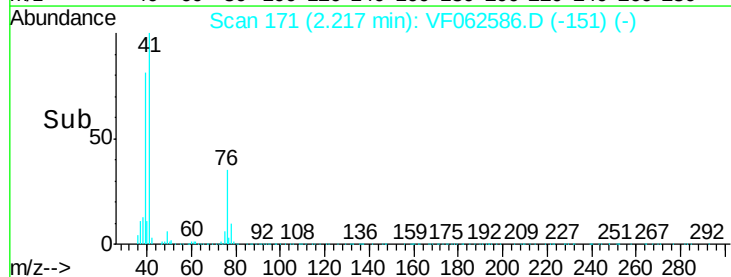
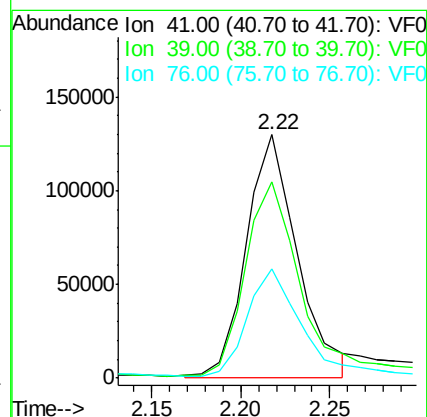
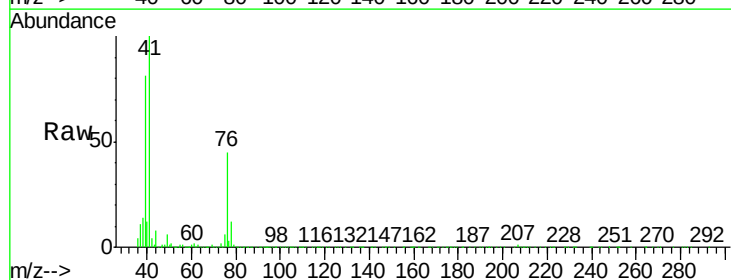
Tgt Ion: 41 Resp: 259239

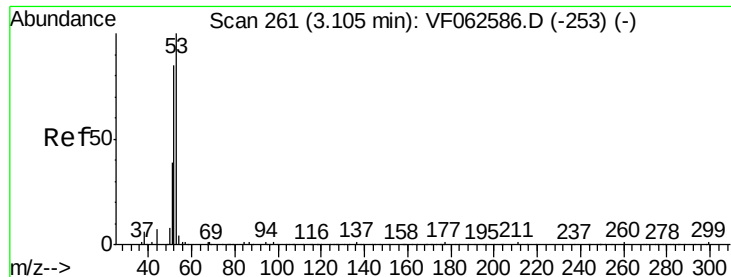
Ion Ratio Lower Upper

41 100

39 80.7 64.6 96.8

76 45.1 36.1 54.1





#15

Acrylonitrile

Concen: 207.134 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

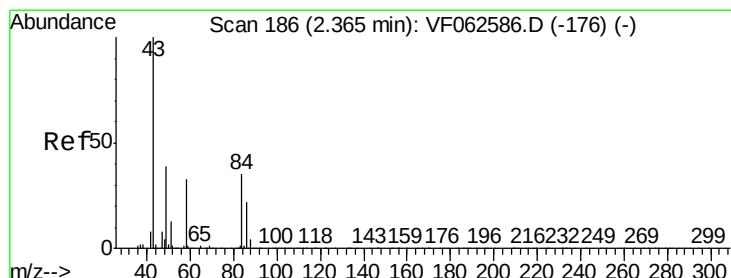
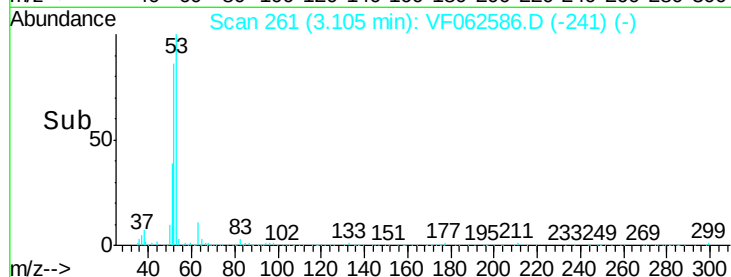
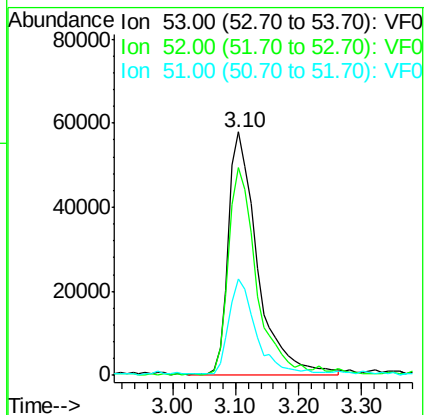
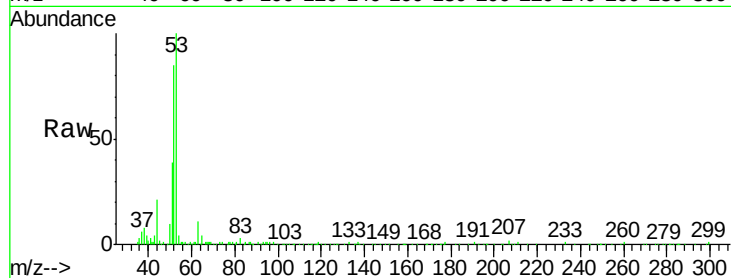
Tot Ion: 53 Resp: 183304

Ion Ratio Lower Upper

53 100

52 85.4 68.3 102.5

51 39.4 31.5 47.3



#16

Acetone

Concen: 183.162 ug/l

RT: 2.37 min Scan# 186

Delta R.T. 0.00 min

Lab File: VF062586.D

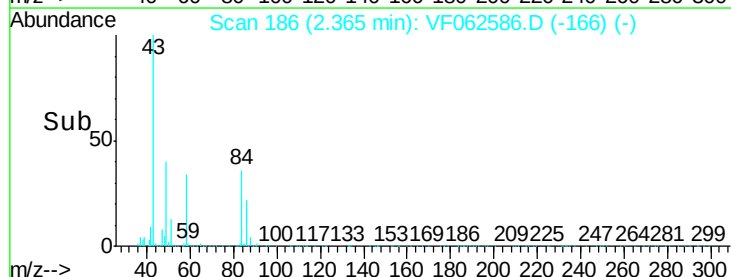
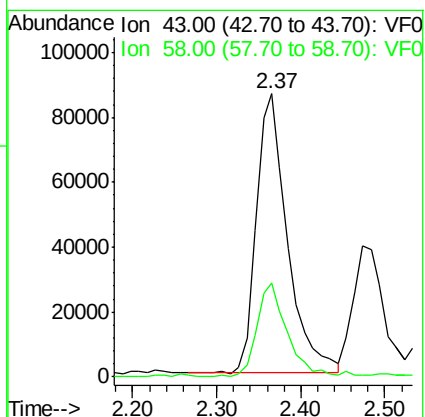
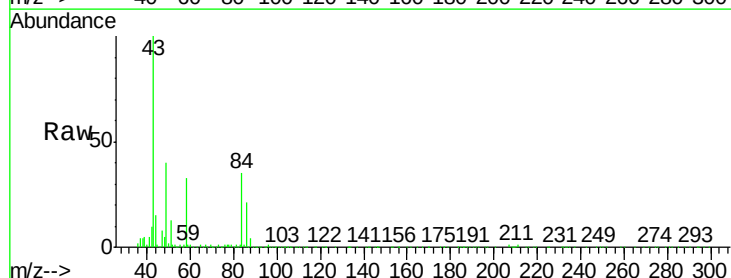
Acq: 14 May 2019 16:52

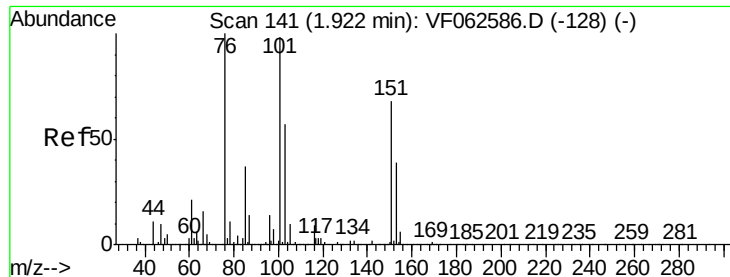
Tgt Ion: 43 Resp: 223087

Ion Ratio Lower Upper

43 100

58 33.4 26.7 40.1





#17

Carbon Disulfide

Concen: 30.949 ug/l

RT: 1.92 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

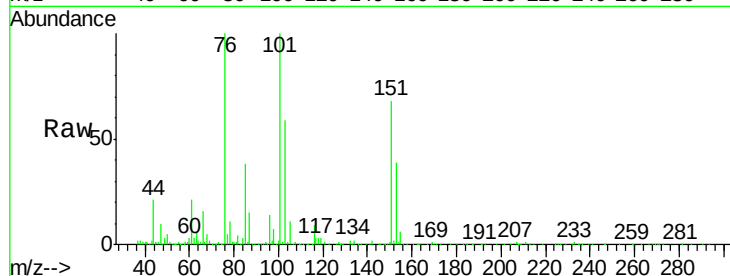
VSTDICCC050

Tot Ion: 76 Resp: 563198

Ion Ratio Lower Upper

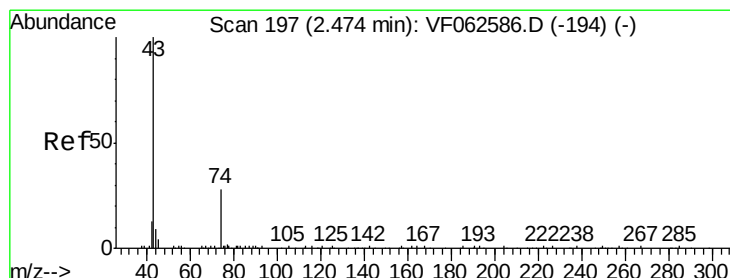
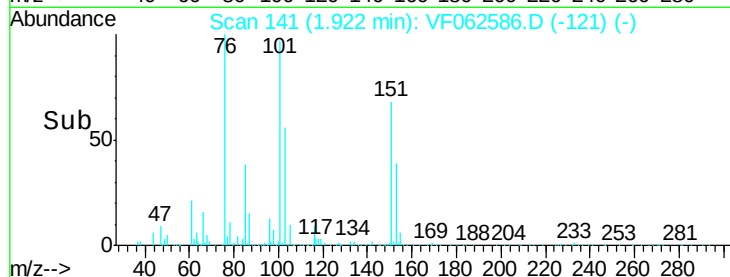
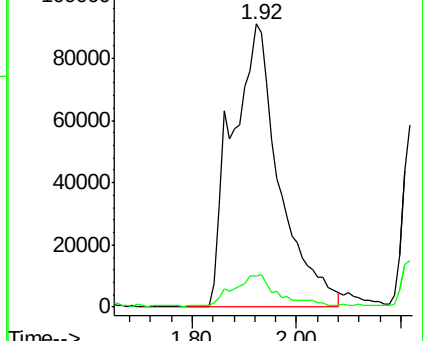
76 100

78 11.2 9.0 13.4



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 31.171 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.00 min

Lab File: VF062586.D

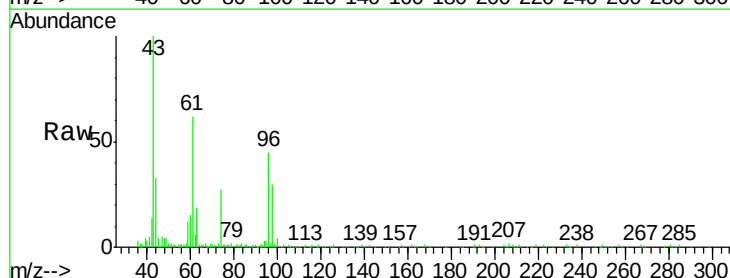
Acq: 14 May 2019 16:52

Tgt Ion: 43 Resp: 91985

Ion Ratio Lower Upper

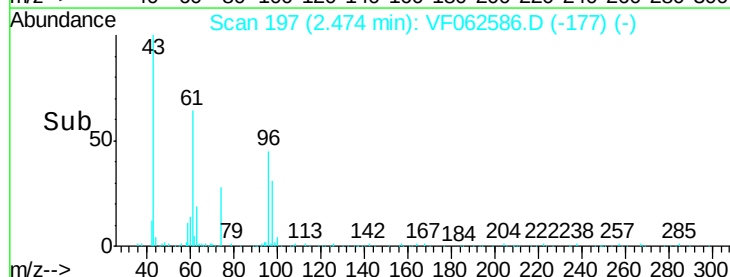
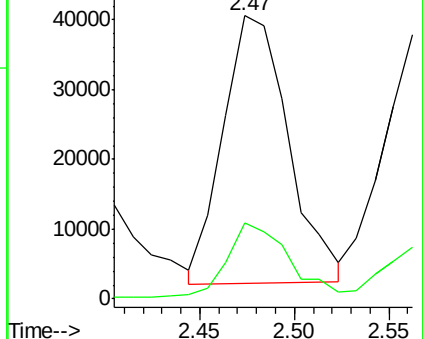
43 100

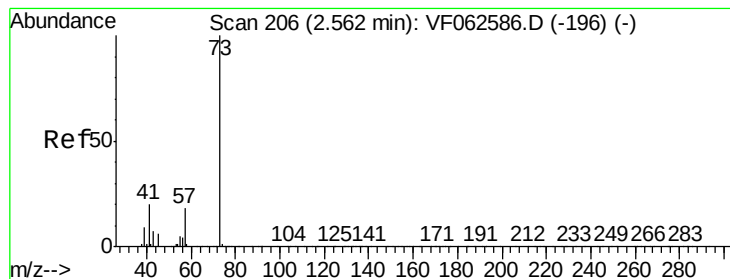
74 26.7 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



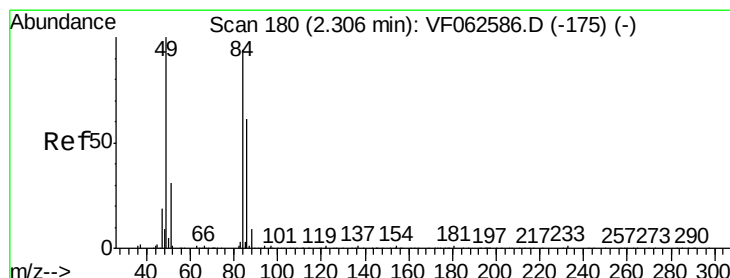
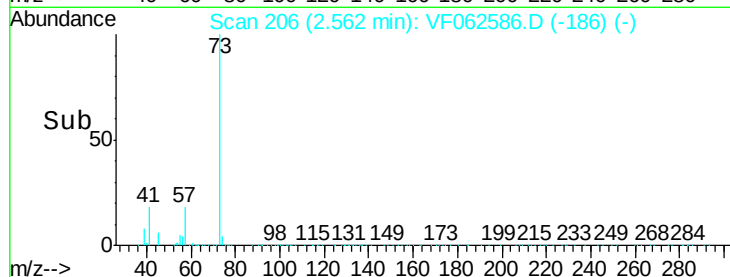
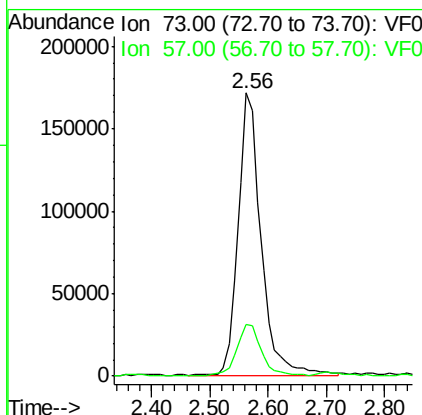
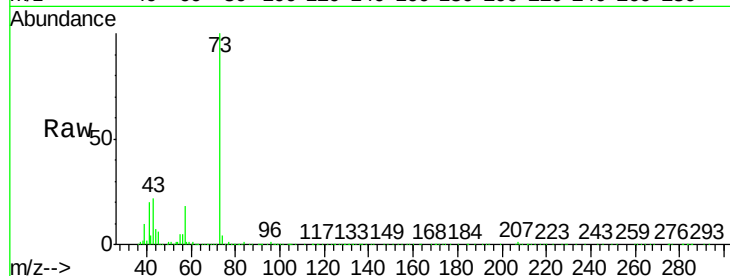


#19

Methyl tert-butyl Ether  
 Concen: 43.468 ug/l  
 RT: 2.56 min Scan# 206  
 Delta R.T. 0.00 min  
 Lab File: VF062586.D  
 Acq: 14 May 2019 16:52

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

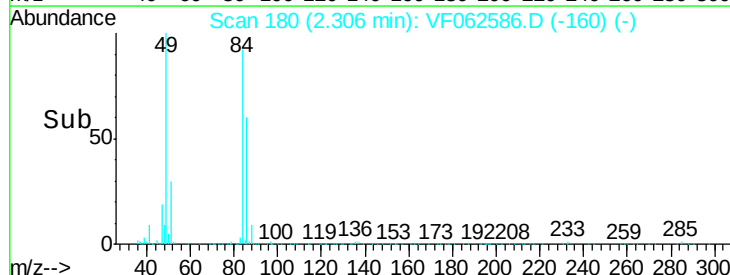
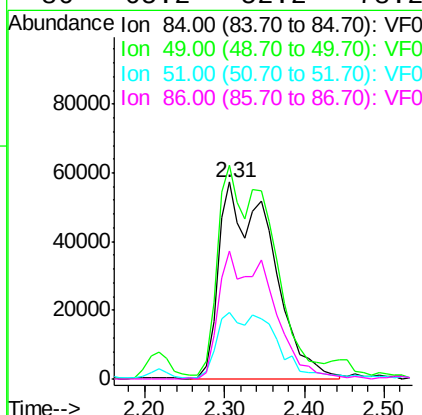
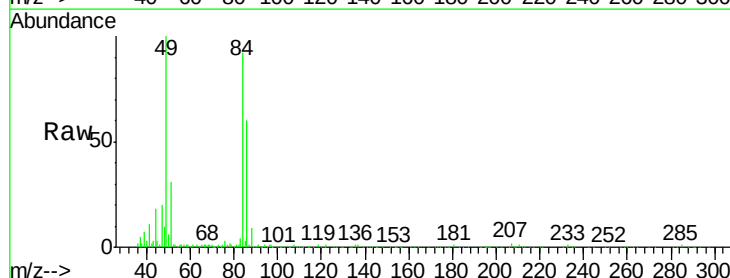
| Tot Ion   | 73    | Resp  | 466800 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 73        | 100   |       |        |
| 57        | 18.3  | 14.6  | 22.0   |

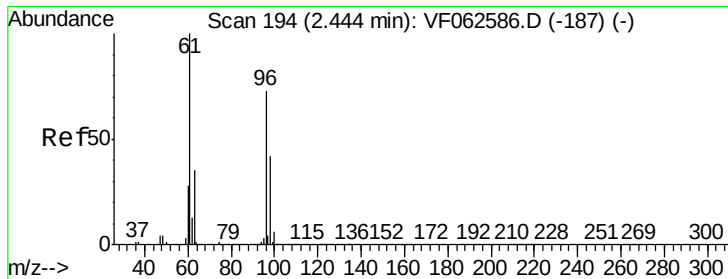


#20

Methylene Chloride  
 Concen: 36.652 ug/l m  
 RT: 2.31 min Scan# 180  
 Delta R.T. 0.00 min  
 Lab File: VF062586.D  
 Acq: 14 May 2019 16:52

| Tgt Ion   | 84    | Resp  | 261301 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 49        | 108.6 | 86.9  | 130.3  |
| 51        | 33.8  | 27.0  | 40.6   |
| 86        | 65.2  | 52.2  | 78.2   |





#21

trans-1,2-Dichloroethene

Concen: 42.896 ug/l

RT: 2.44 min Scan# 194

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

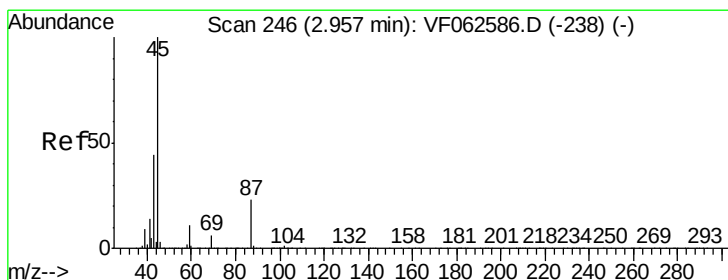
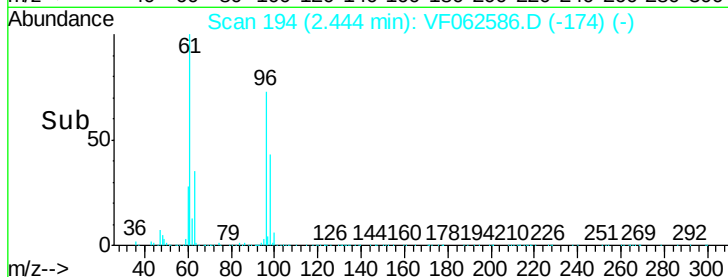
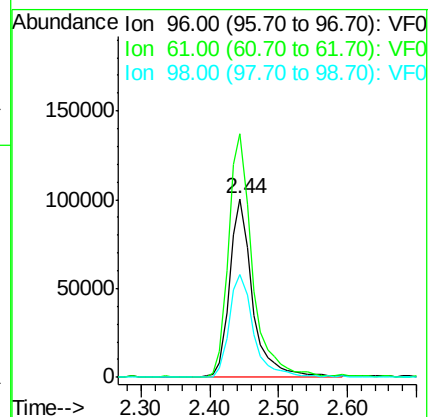
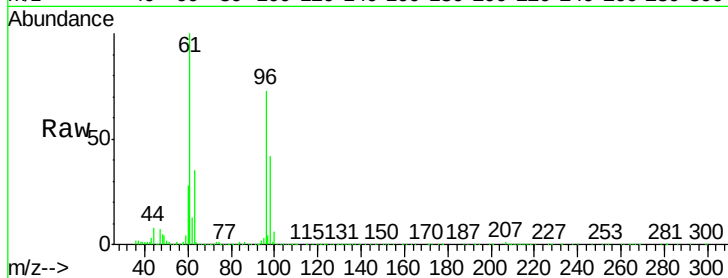
Tot Ion: 96 Resp: 229141

Ion Ratio Lower Upper

96 100

61 136.5 109.2 163.8

98 57.9 46.3 69.5



#22

Diisopropyl ether

Concen: 35.940 ug/l

RT: 2.96 min Scan# 246

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Tgt Ion: 45 Resp: 623026

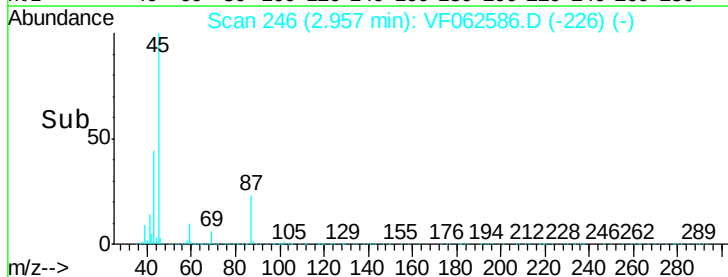
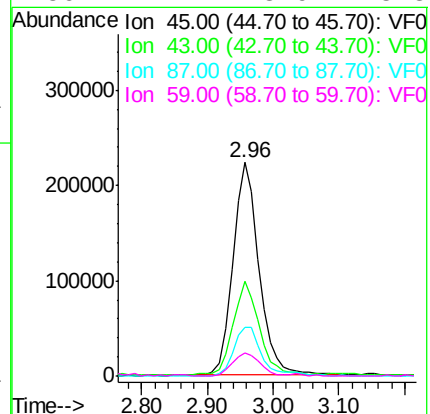
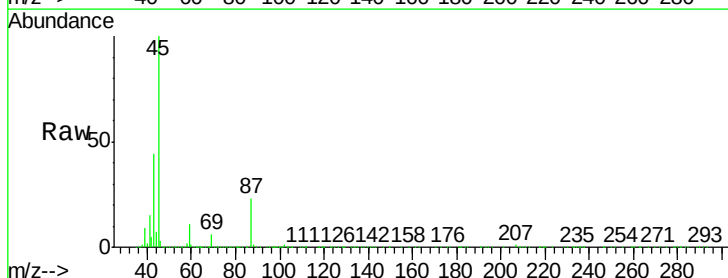
Ion Ratio Lower Upper

45 100

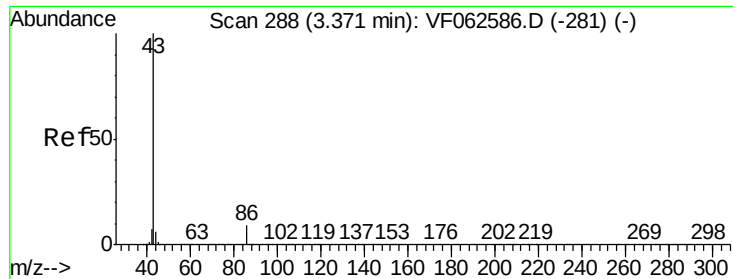
43 44.2 35.4 53.0

87 23.0 18.4 27.6

59 11.1 8.9 13.3







#23

Vinyl Acetate

Concen: 206.274 ug/l

RT: 3.37 min Scan# 288

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

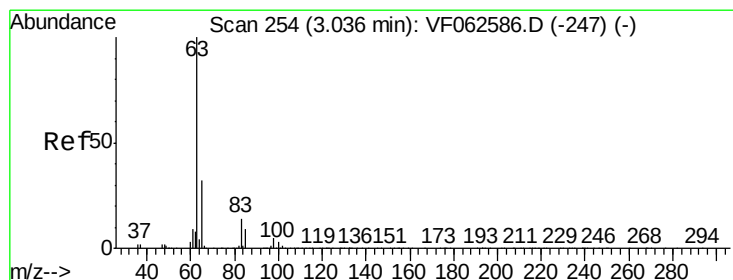
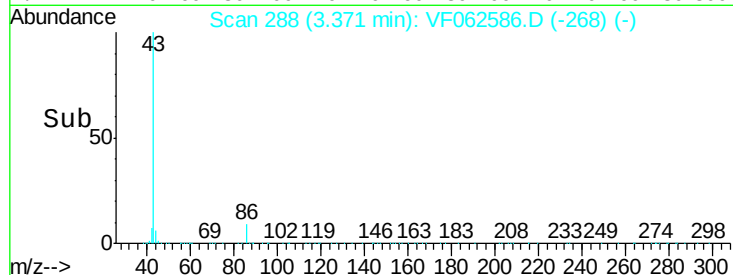
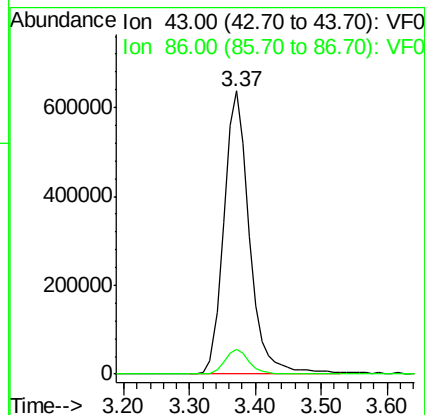
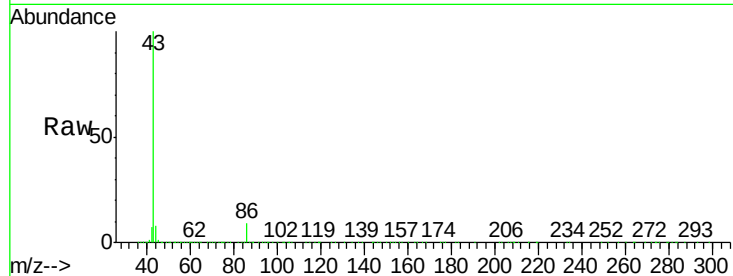
VSTDICCC050

Tot Ion: 43 Resp: 1719084

Ion Ratio Lower Upper

43 100

86 8.9 7.1 10.7



#24

1,1-Dichloroethane

Concen: 42.186 ug/l

RT: 3.04 min Scan# 254

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

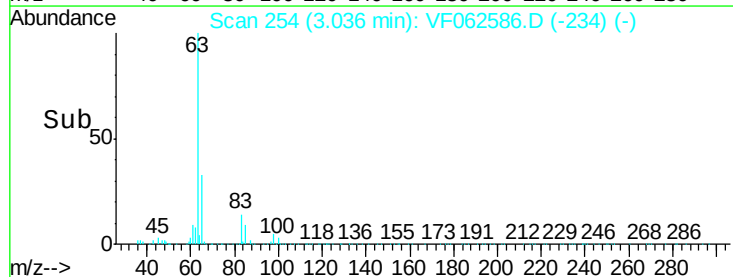
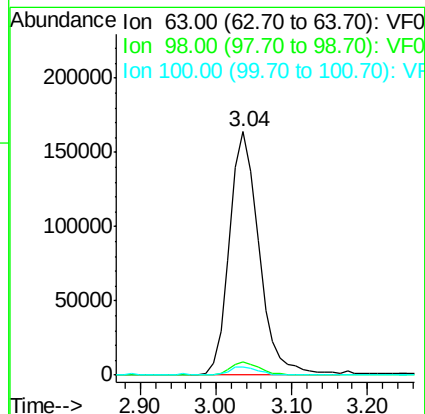
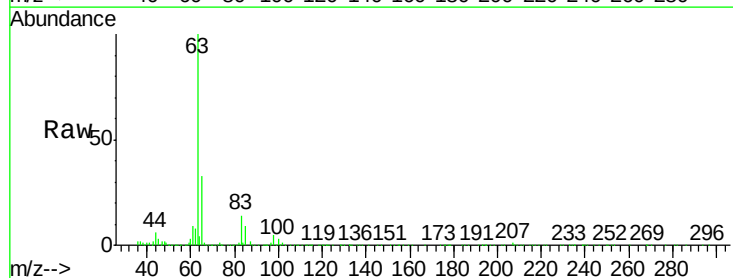
Tgt Ion: 63 Resp: 441986

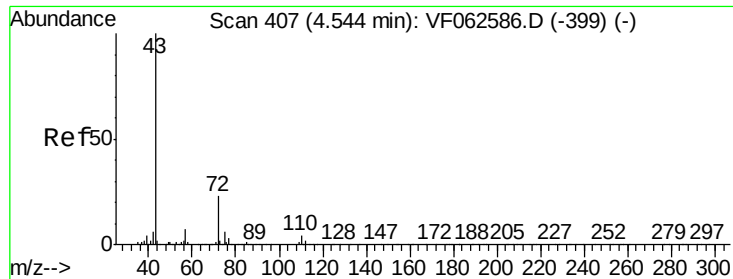
Ion Ratio Lower Upper

63 100

98 5.2 2.6 7.8

100 3.4 1.7 5.1





#25

2-Butanone

Concen: 218.623 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

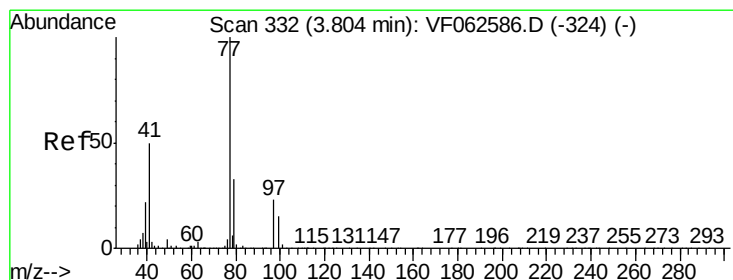
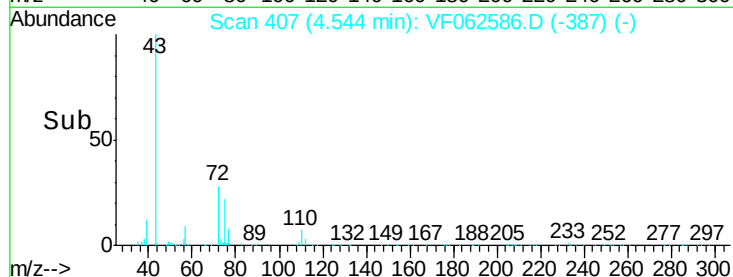
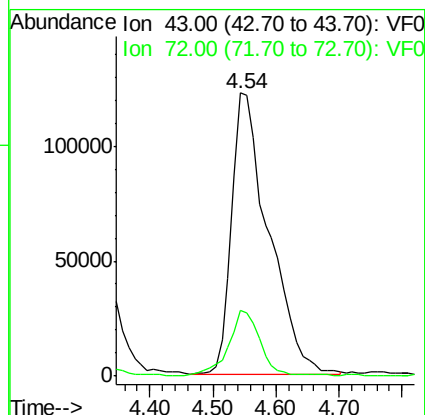
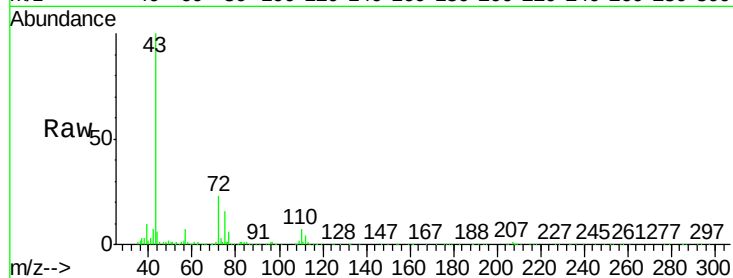
VSTDICCC050

Tot Ion: 43 Resp: 499593

Ion Ratio Lower Upper

43 100

72 23.1 18.5 27.7



#26

2,2-Dichloropropane

Concen: 44.902 ug/l

RT: 3.80 min Scan# 332

Delta R.T. 0.00 min

Lab File: VF062586.D

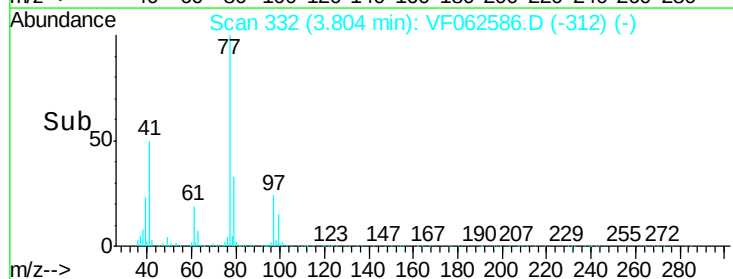
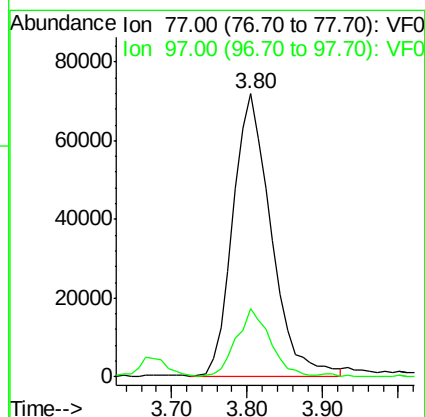
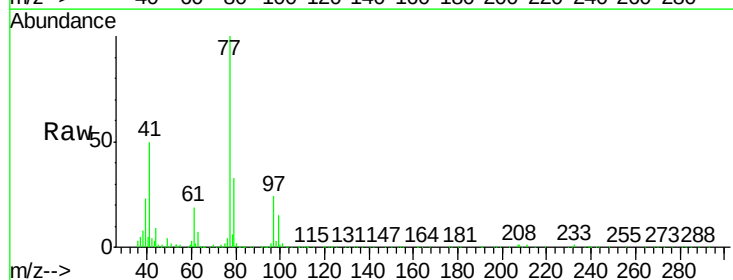
Acq: 14 May 2019 16:52

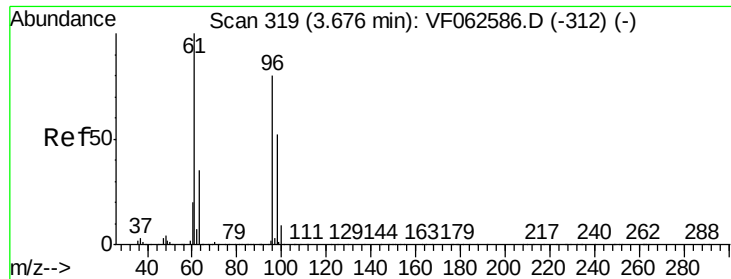
Tgt Ion: 77 Resp: 249814

Ion Ratio Lower Upper

77 100

97 24.0 12.0 36.0



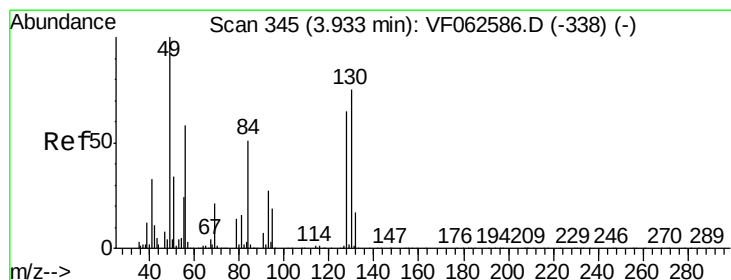
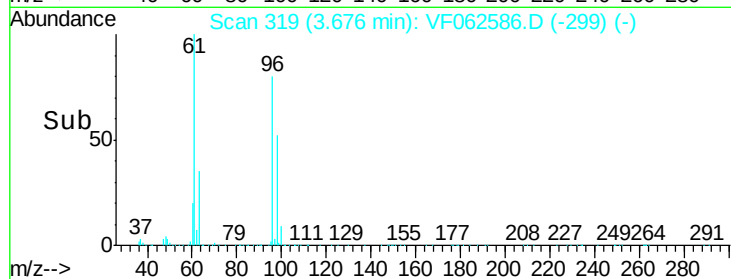
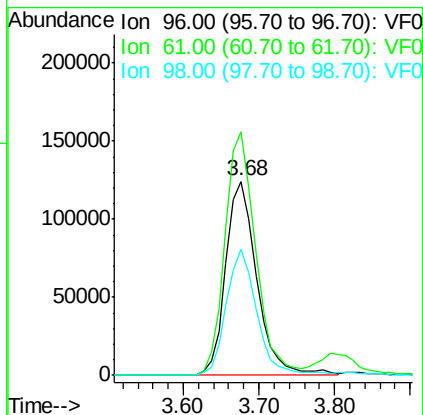
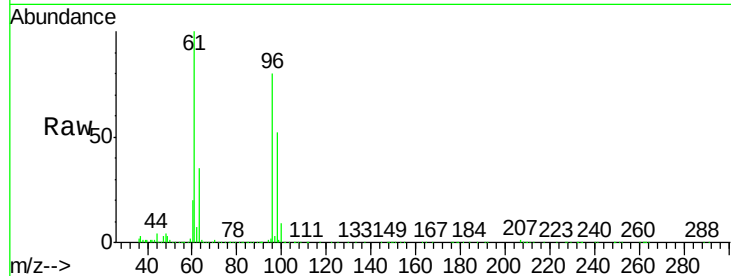


#27

cis-1,2-Dichloroethene  
Concen: 49.846 ug/l  
RT: 3.68 min Scan# 319  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

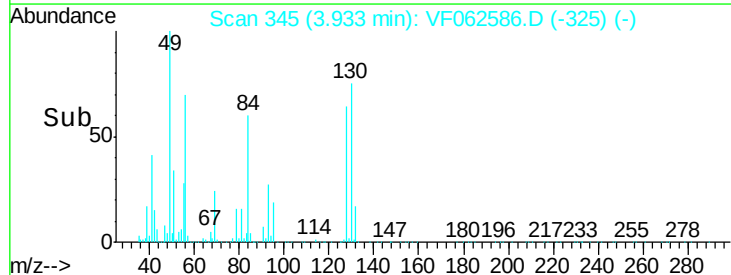
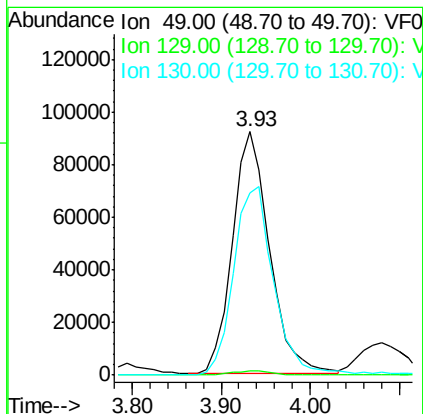
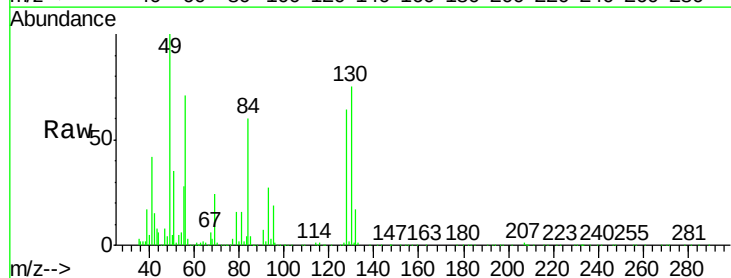
| Tot Ion | 96    | Resp  | 352693 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 96      | 100   |       |        |
| 61      | 125.7 | 0.0   | 251.4  |
| 98      | 64.9  | 0.0   | 129.8  |

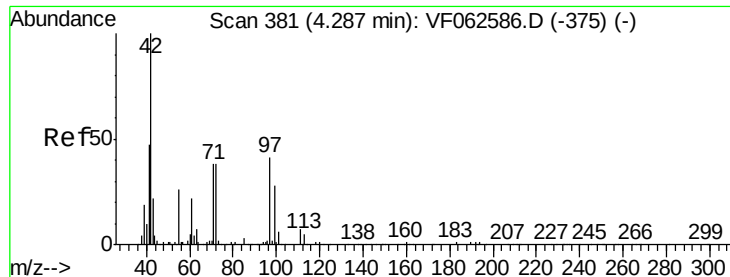


#28

Bromochloromethane  
Concen: 56.366 ug/l  
RT: 3.93 min Scan# 345  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

| Tgt Ion | 49    | Resp  | 266720 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 49      | 100   |       |        |
| 129     | 2.0   | 0.0   | 4.0    |
| 130     | 74.6  | 59.7  | 89.5   |





#29

Tetrahydrofuran

Concen: 209.935 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

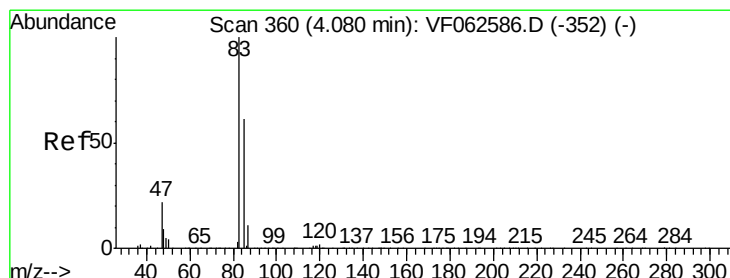
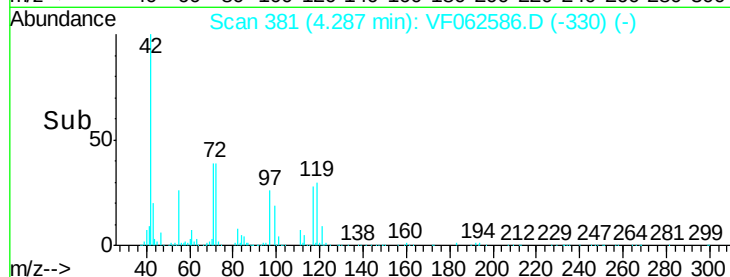
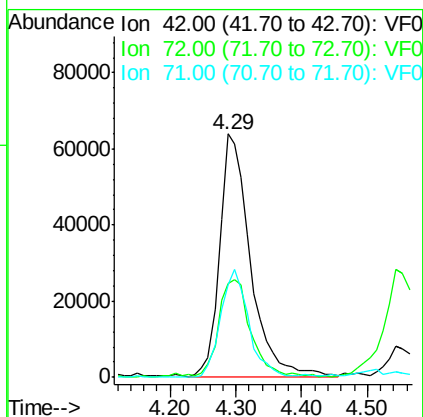
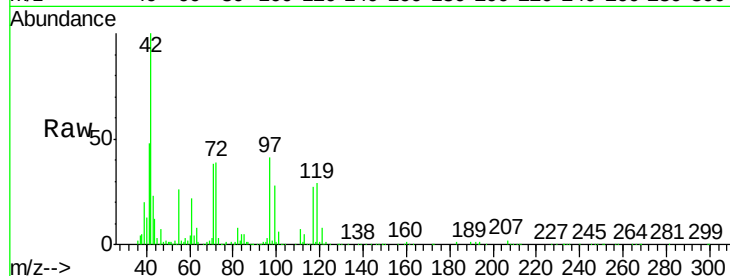
Tot Ion: 42 Resp: 207080

Ion Ratio Lower Upper

42 100

72 42.1 34.0 51.0

71 41.0 32.8 49.2



#30

Chloroform

Concen: 44.235 ug/l

RT: 4.08 min Scan# 360

Delta R.T. 0.00 min

Lab File: VF062586.D

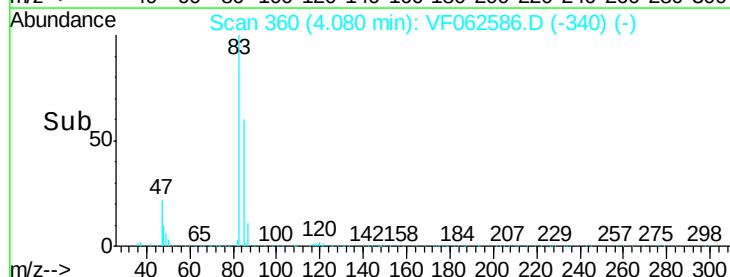
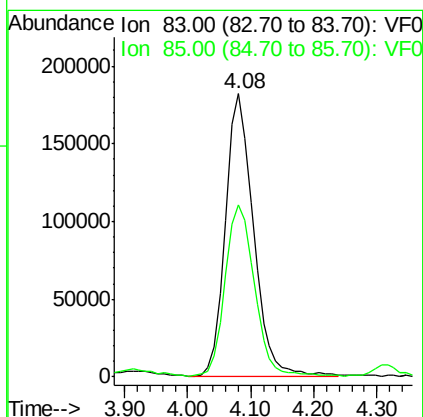
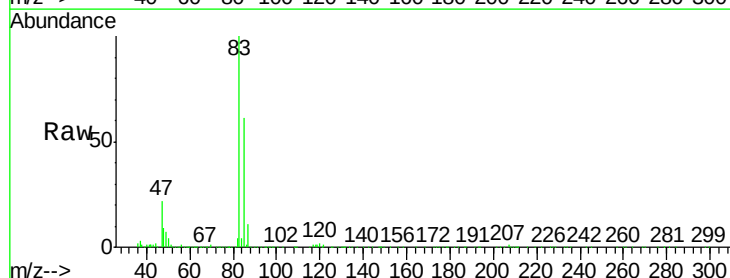
Acq: 14 May 2019 16:52

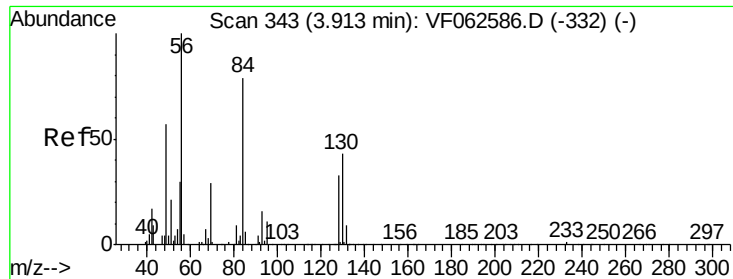
Tgt Ion: 83 Resp: 558496

Ion Ratio Lower Upper

83 100

85 60.9 48.7 73.1





#31

Cyclohexane

Concen: 41.150 ug/l

RT: 3.91 min Scan# 343

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

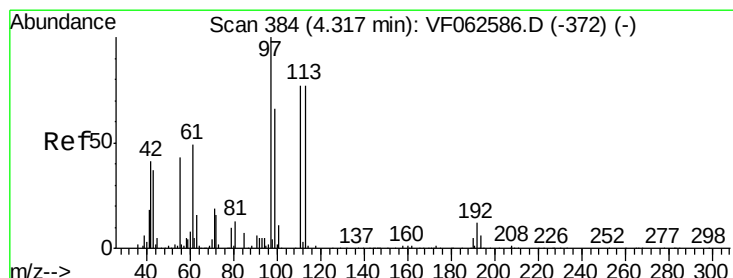
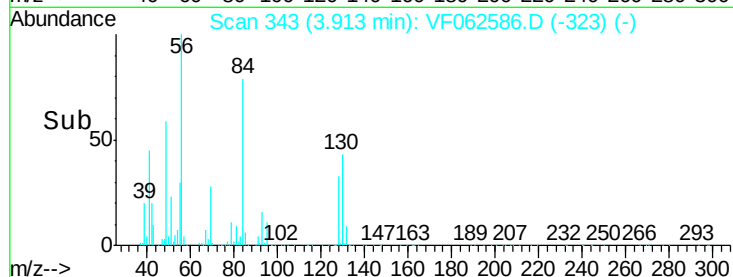
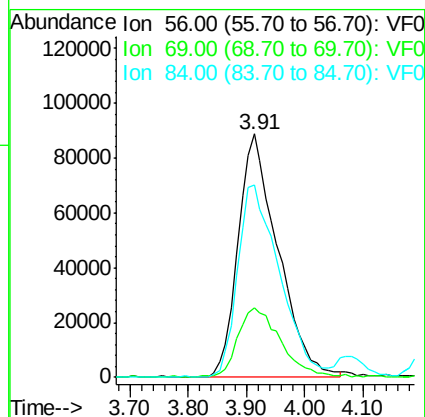
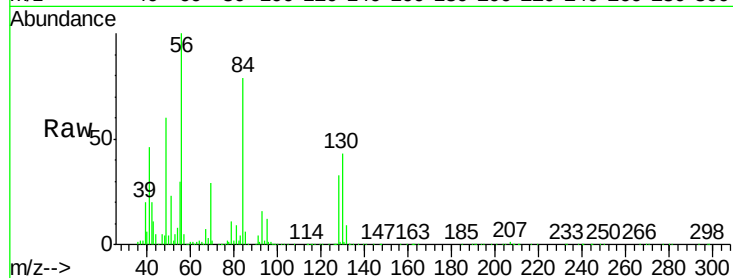
Tot Ion: 56 Resp: 425400

Ion Ratio Lower Upper

56 100

69 28.6 22.9 34.3

84 79.3 63.4 95.2



#32

1,1,1-Trichloroethane

Concen: 44.993 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

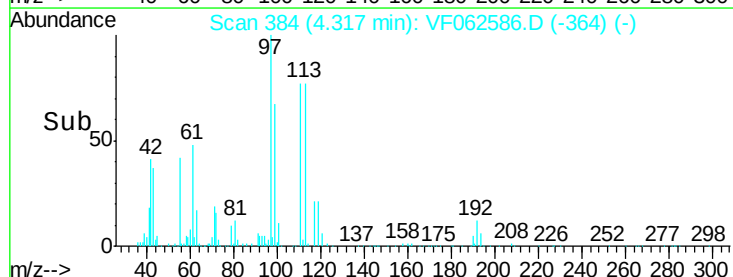
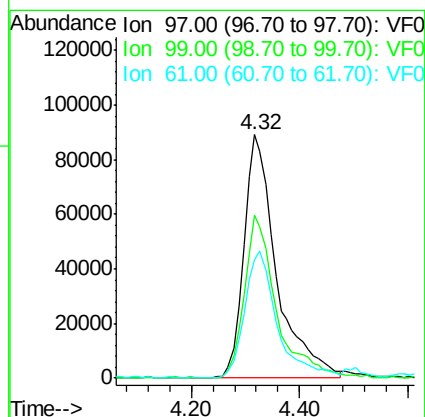
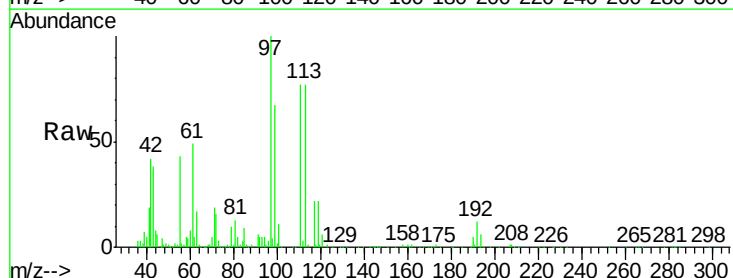
Tgt Ion: 97 Resp: 374443

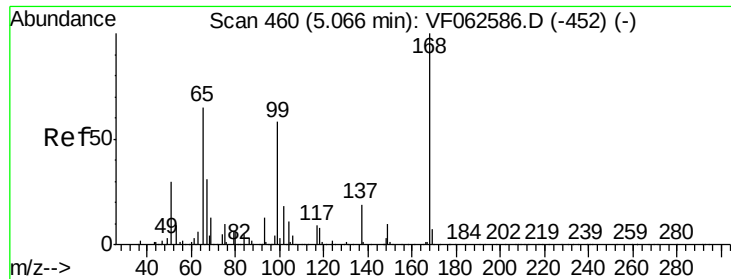
Ion Ratio Lower Upper

97 100

99 66.7 53.4 80.0

61 48.6 38.9 58.3

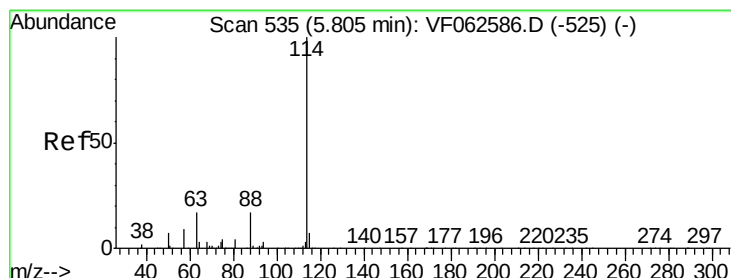
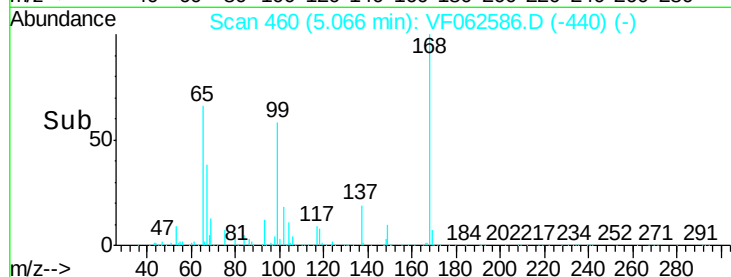
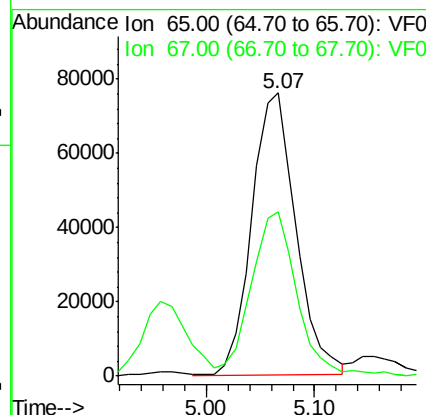
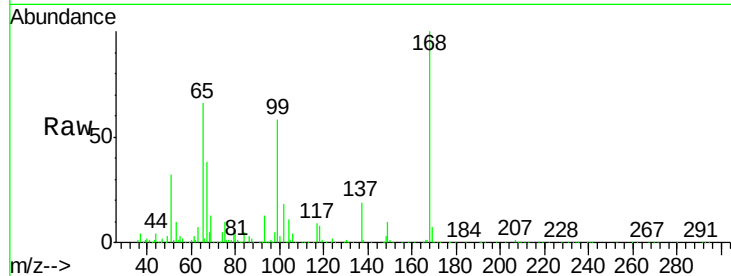




#33  
 1,2-Dichloroethane-d4  
 Concen: 34.209 ug/l  
 RT: 5.07 min Scan# 460  
 Delta R.T. 0.00 min  
 Lab File: VF062586.D  
 Acq: 14 May 2019 16:52

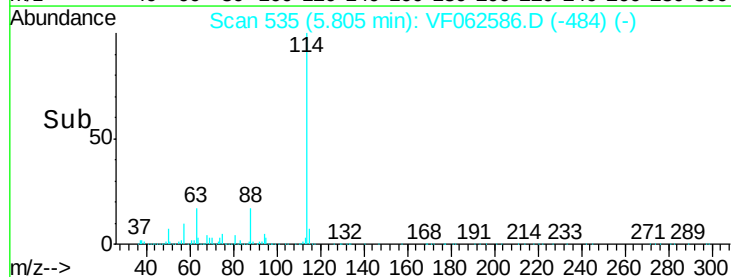
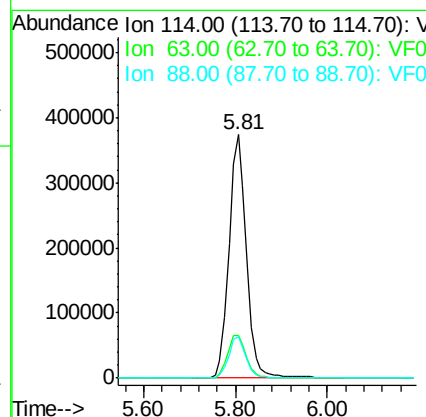
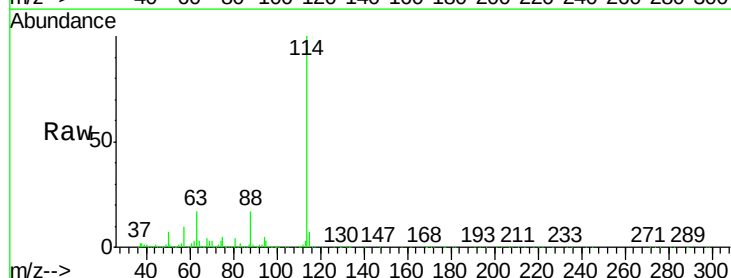
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

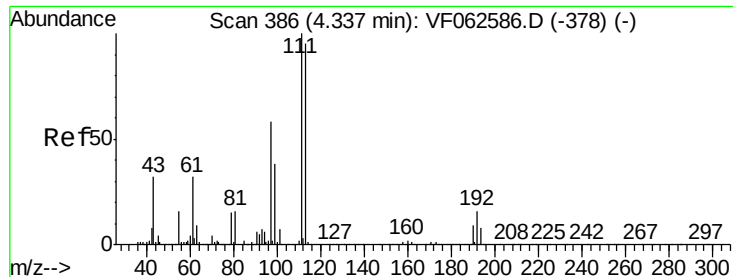
Tot Ion: 65 Resp: 215789  
 Ion Ratio Lower Upper  
 65 100  
 67 58.3 0.0 116.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.81 min Scan# 535  
 Delta R.T. 0.00 min  
 Lab File: VF062586.D  
 Acq: 14 May 2019 16:52

Tgt Ion: 114 Resp: 989696  
 Ion Ratio Lower Upper  
 114 100  
 63 17.3 0.0 34.6  
 88 16.8 0.0 33.6





#35

Dibromofluoromethane

Concen: 49.294 ug/l

RT: 4.34 min Scan# 386

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

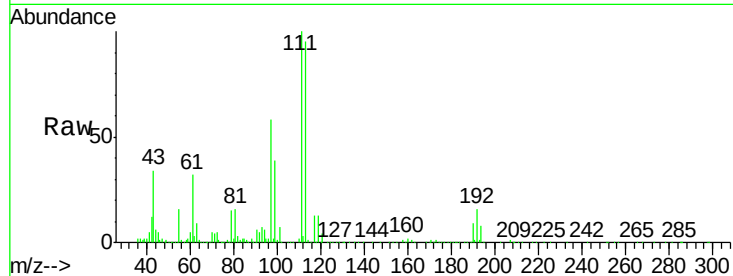
Tot Ion:113 Resp: 363320

Ion Ratio Lower Upper

113 100

111 104.9 83.9 125.9

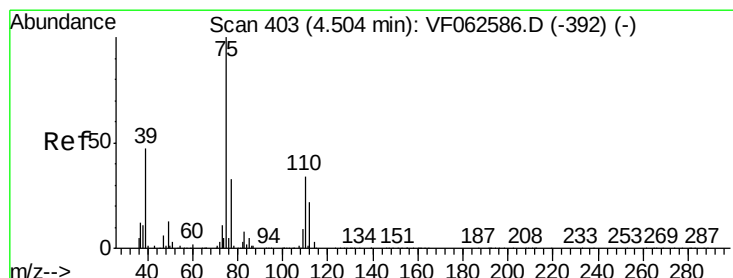
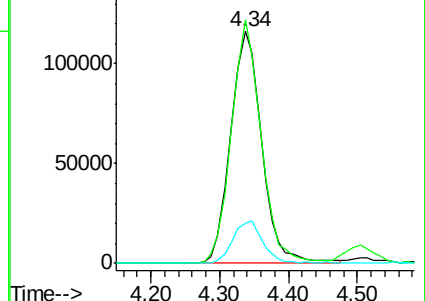
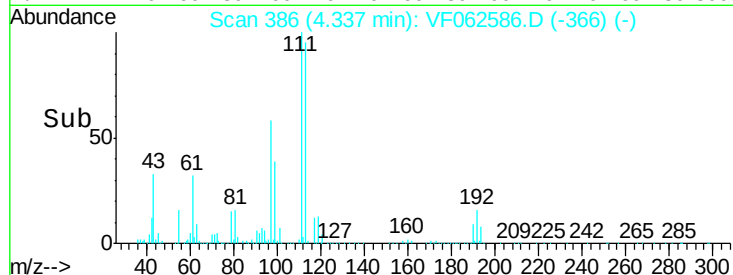
192 17.1 13.7 20.5



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 36.105 ug/l

RT: 4.50 min Scan# 403

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

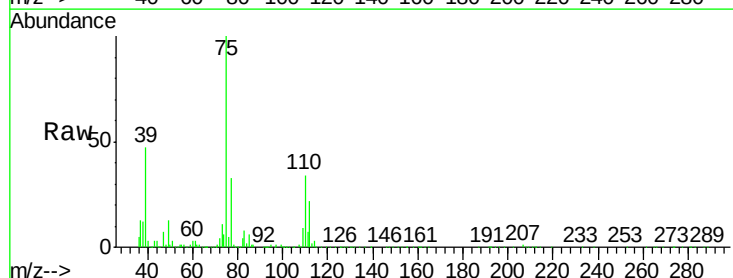
Tgt Ion: 75 Resp: 386391

Ion Ratio Lower Upper

75 100

110 34.5 17.3 51.7

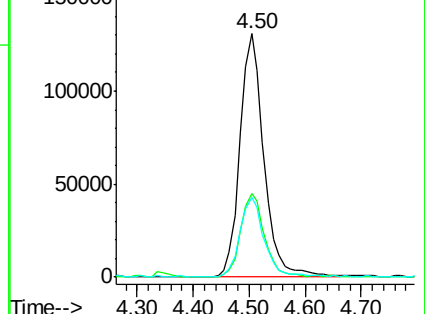
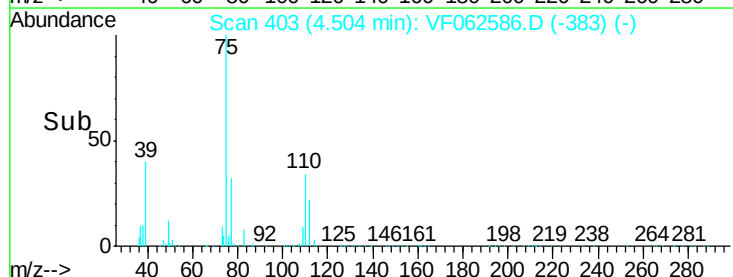
77 33.0 26.4 39.6

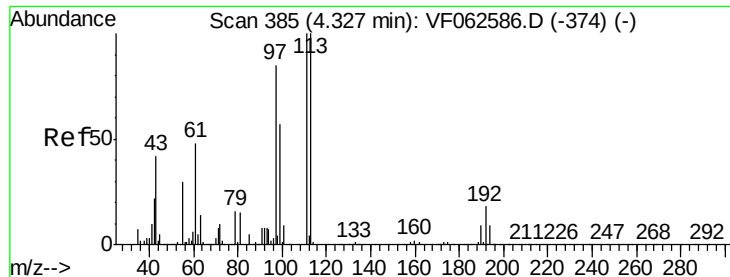


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 33.627 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

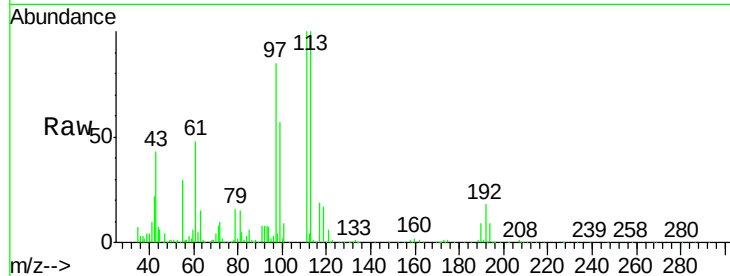
Tot Ion: 43 Resp: 166495

Ion Ratio Lower Upper

43 100

61 110.7 88.6 132.8

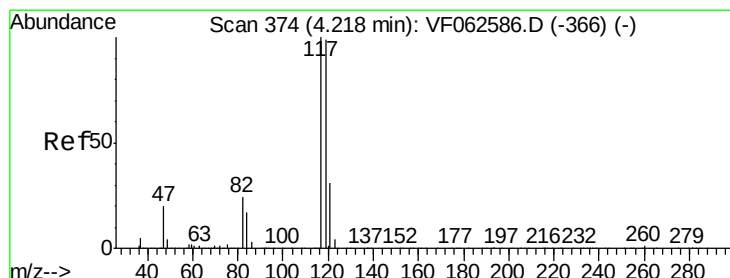
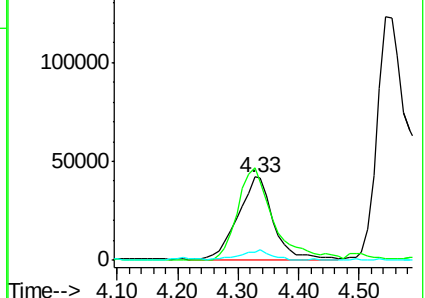
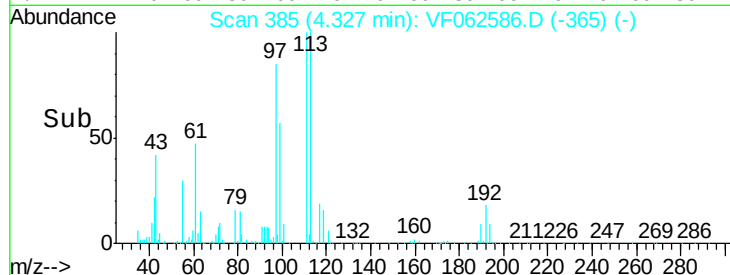
70 10.4 8.3 12.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 38.779 ug/l

RT: 4.22 min Scan# 374

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

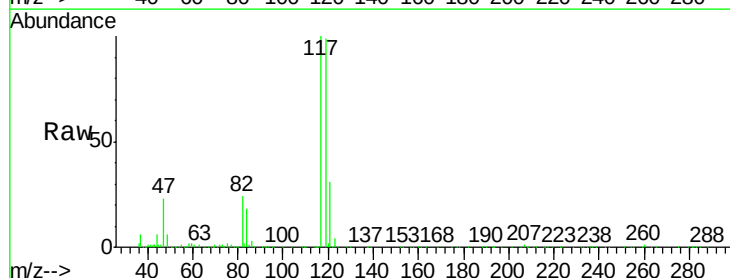
Tgt Ion: 117 Resp: 320278

Ion Ratio Lower Upper

117 100

119 98.8 79.0 118.6

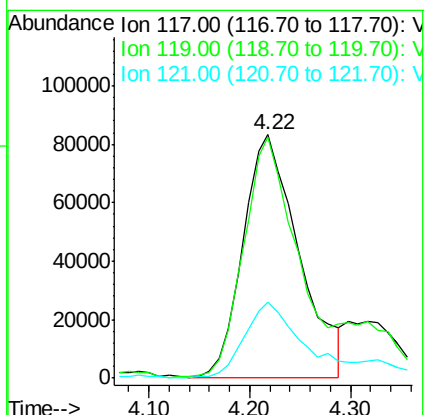
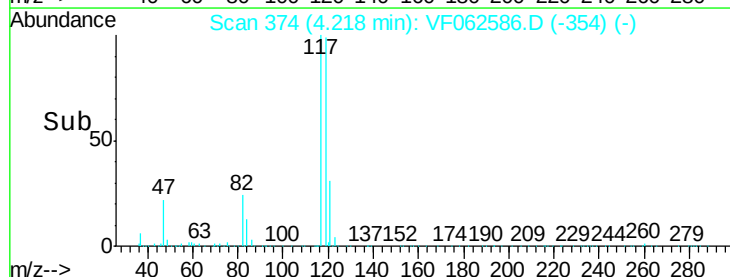
121 31.3 25.0 37.6



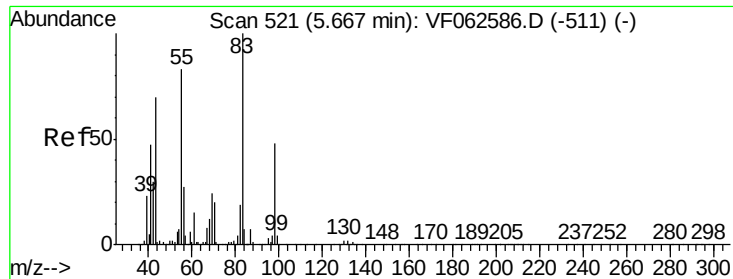
Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



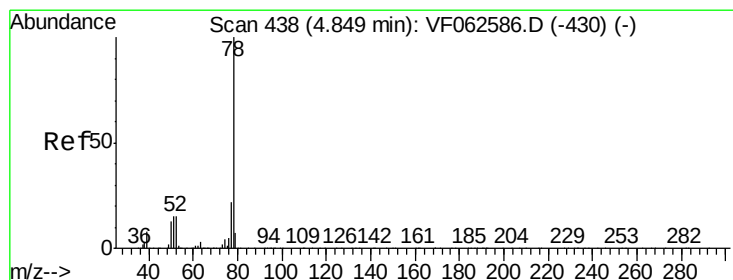
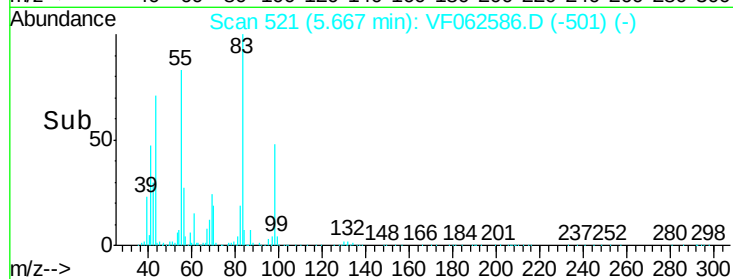
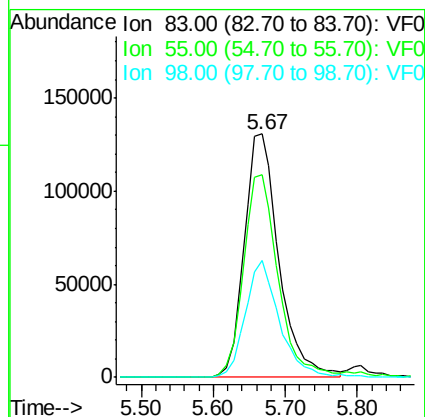
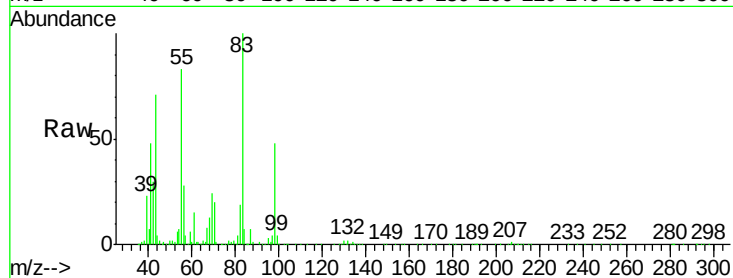




#39  
Methylvlcyclohexane  
Concen: 40.664 ug/l  
RT: 5.67 min Scan# 521  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

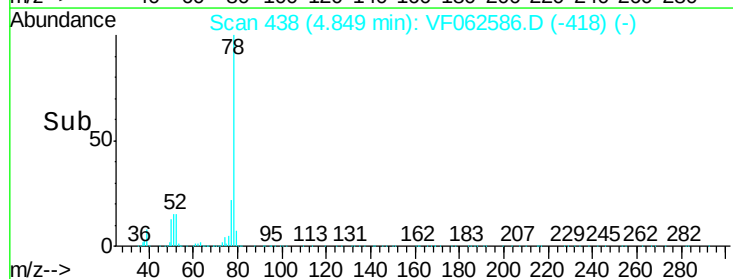
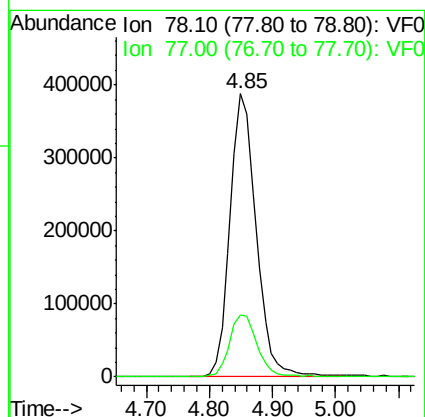
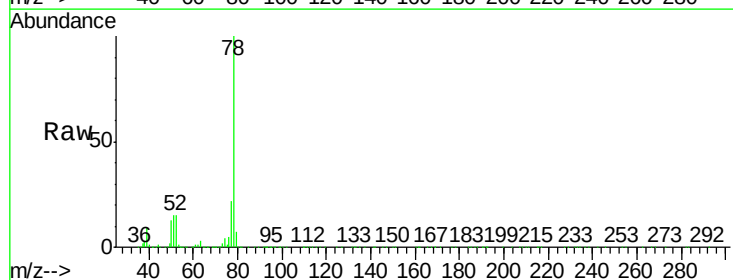
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

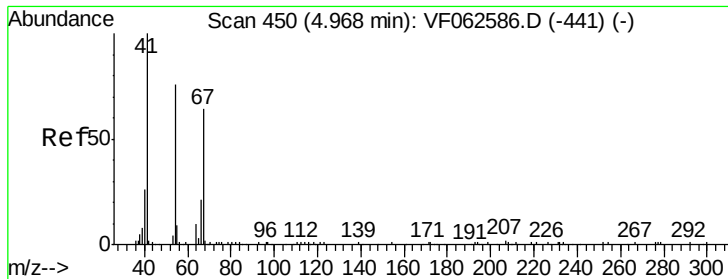
Tot Ion: 83 Resp: 440036  
Ion Ratio Lower Upper  
83 100  
55 83.3 66.6 100.0  
98 47.9 38.3 57.5



#40  
Benzene  
Concen: 46.378 ug/l  
RT: 4.85 min Scan# 438  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Tgt Ion: 78 Resp: 1118433  
Ion Ratio Lower Upper  
78 100  
77 22.1 17.7 26.5

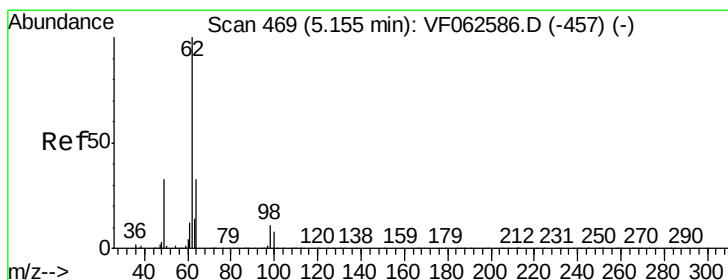
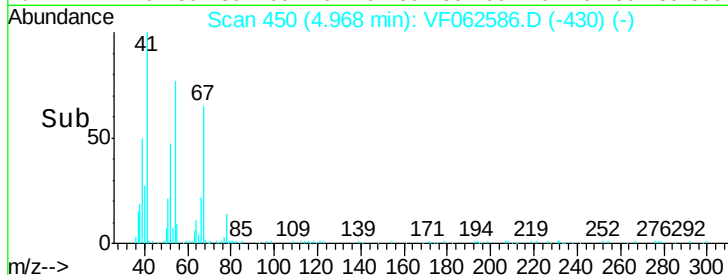
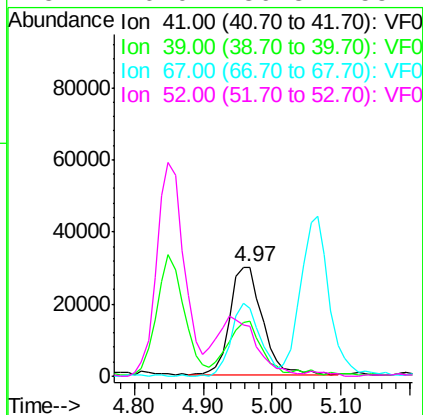
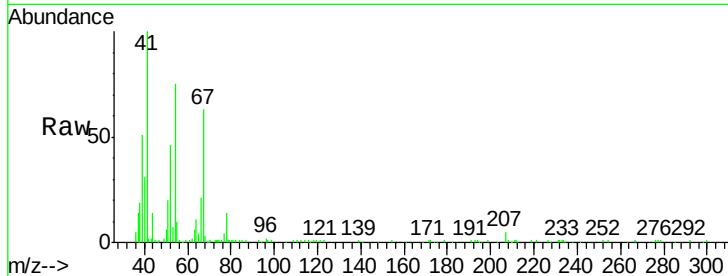




#41  
Methacrylonitrile  
Concen: 35.175 ug/l  
RT: 4.97 min Scan# 450  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

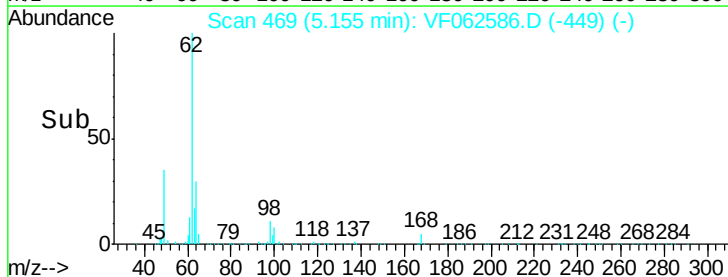
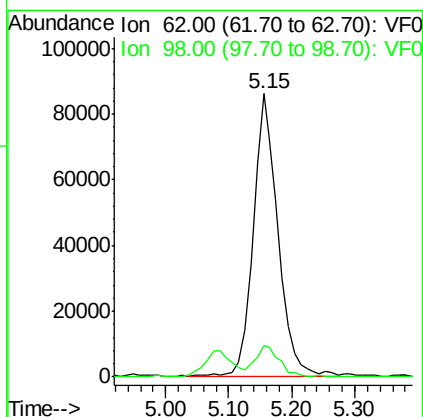
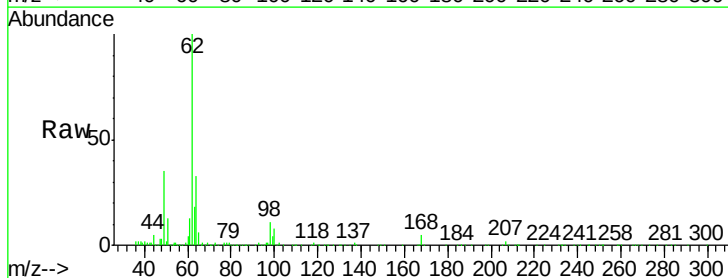
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

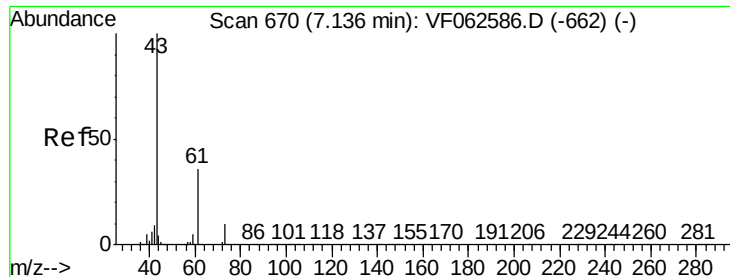
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 98147 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 51.0  | 40.8  | 61.2  |
| 67       | 62.7  | 50.2  | 75.2  |
| 52       | 46.0  | 36.8  | 55.2  |



#42  
1,2-Dichloroethane  
Concen: 28.066 ug/l  
RT: 5.15 min Scan# 469  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 236705 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 11.1  | 0.0   | 22.2   |





#43

Isopropyl Acetate

Concen: 36.000 ug/l

RT: 7.14 min Scan# 670

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

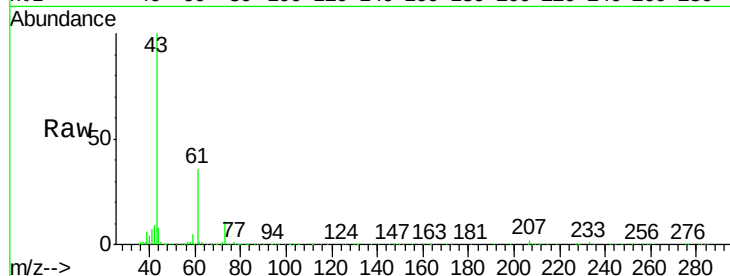
Tot Ion: 43 Resp: 192390

Ion Ratio Lower Upper

43 100

61 35.6 28.5 42.7

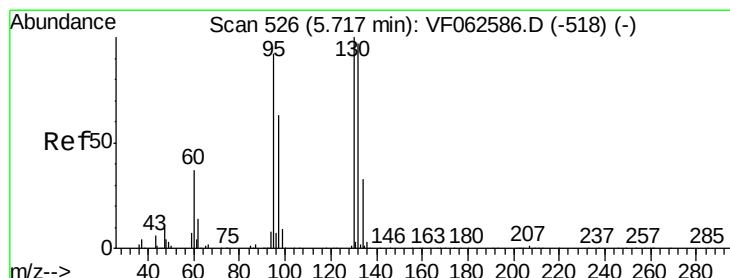
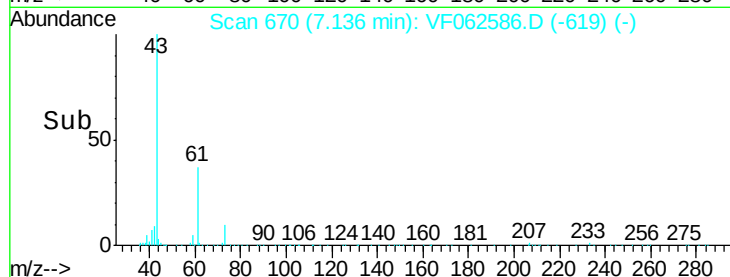
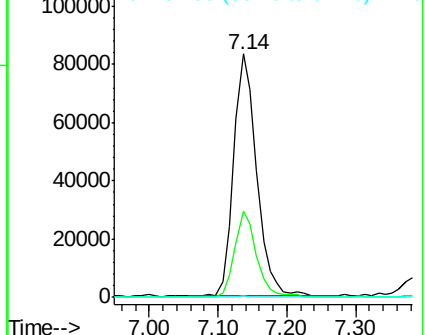
87 0.5 0.4 0.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 40.967 ug/l

RT: 5.72 min Scan# 526

Delta R.T. 0.00 min

Lab File: VF062586.D

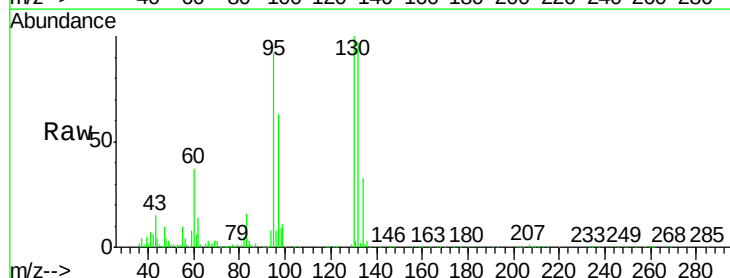
Acq: 14 May 2019 16:52

Tgt Ion:130 Resp: 298871

Ion Ratio Lower Upper

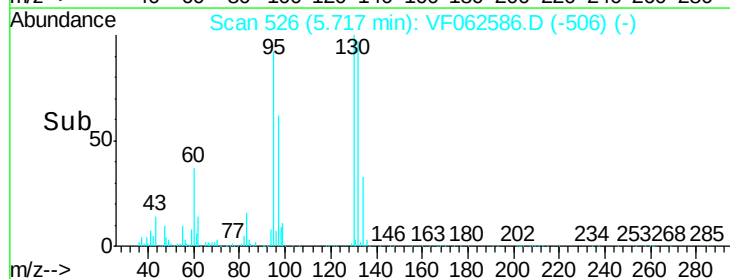
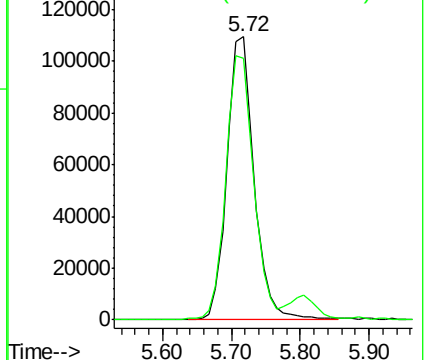
130 100

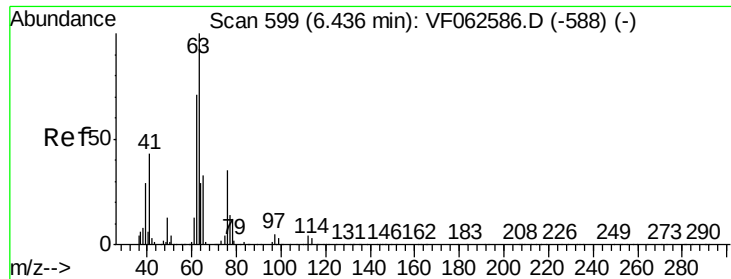
95 92.5 0.0 185.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 49.156 ug/l

RT: 6.44 min Scan# 599

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

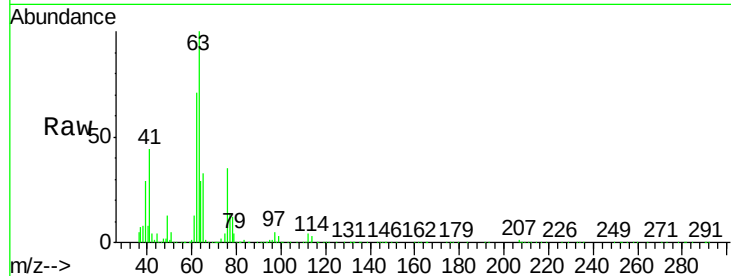
VSTDICCC050

Tot Ion: 63 Resp: 282116

Ion Ratio Lower Upper

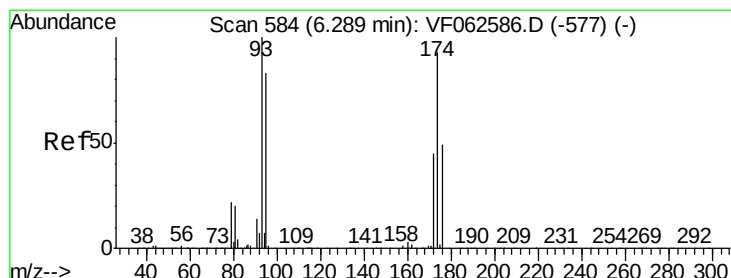
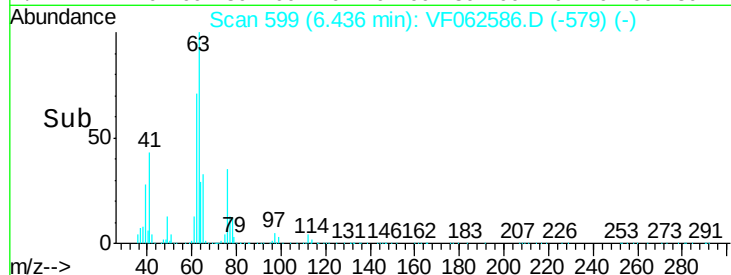
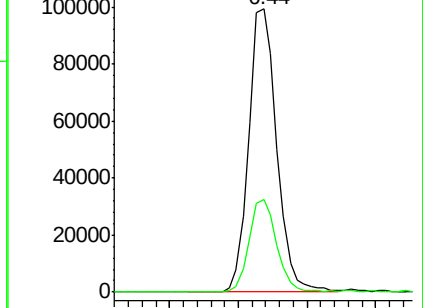
63 100

65 32.8 26.2 39.4



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 43.308 ug/l

RT: 6.29 min Scan# 584

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

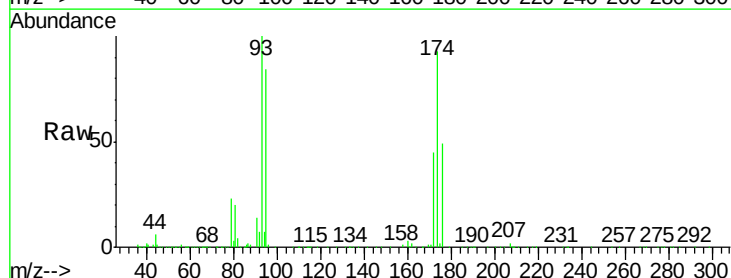
Tgt Ion: 93 Resp: 165553

Ion Ratio Lower Upper

93 100

95 83.6 66.9 100.3

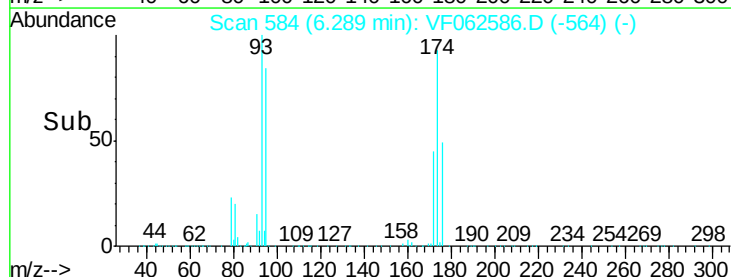
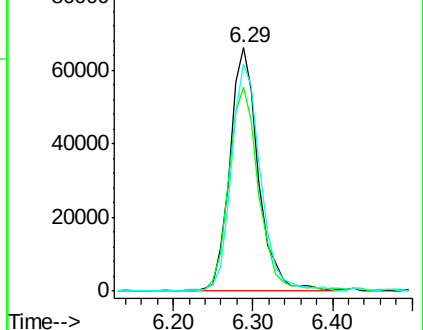
174 93.3 74.6 112.0

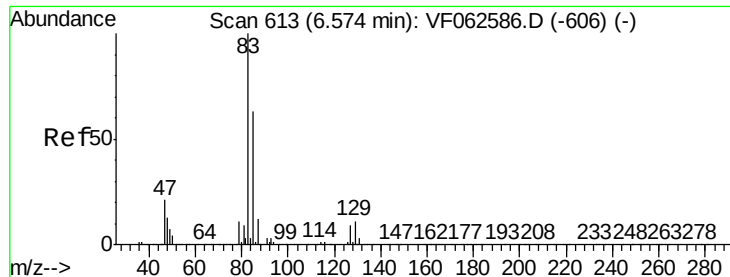


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 35.532 ug/l

RT: 6.57 min Scan# 613

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

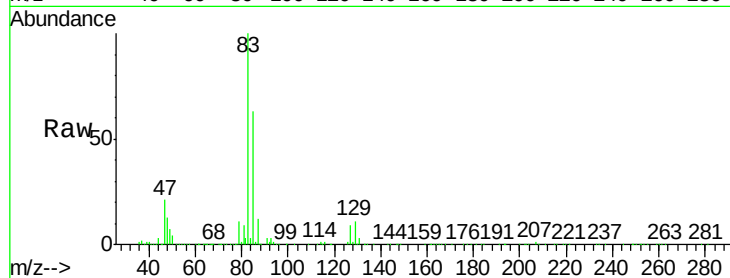
Tot Ion: 83 Resp: 358645

Ion Ratio Lower Upper

83 100

85 62.9 50.3 75.5

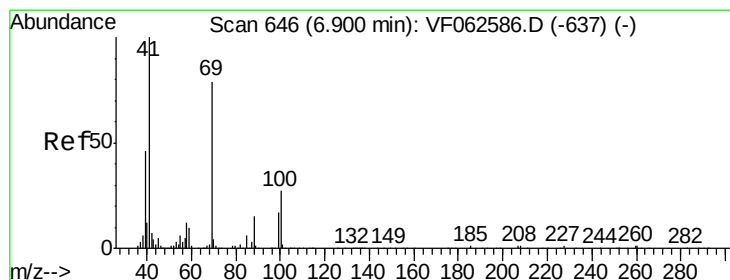
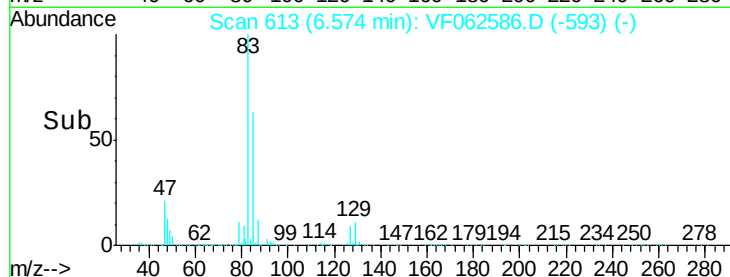
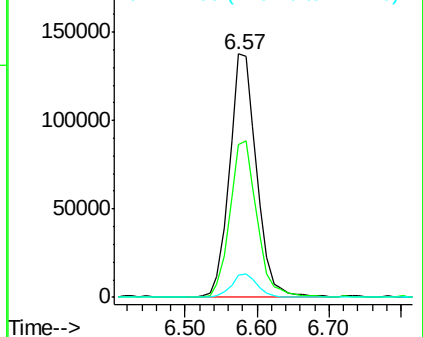
127 9.0 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 27.128 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

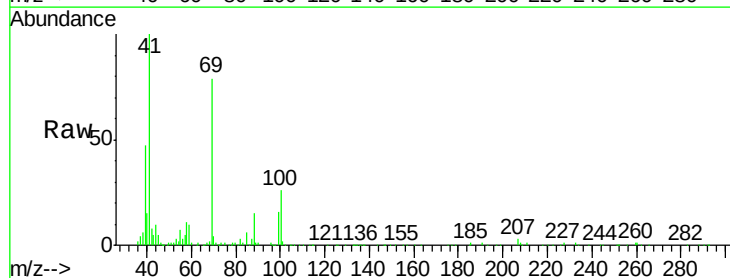
Tgt Ion: 41 Resp: 107662

Ion Ratio Lower Upper

41 100

69 78.8 63.0 94.6

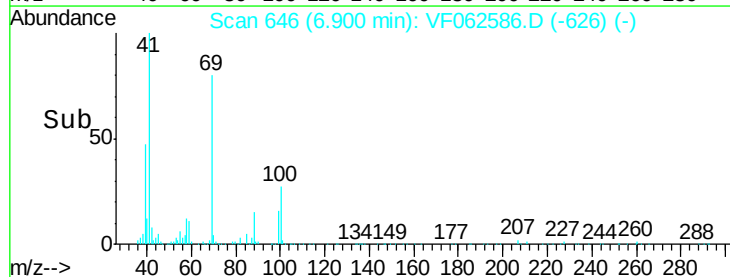
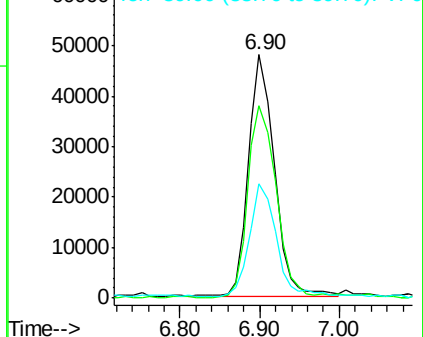
39 47.0 37.6 56.4

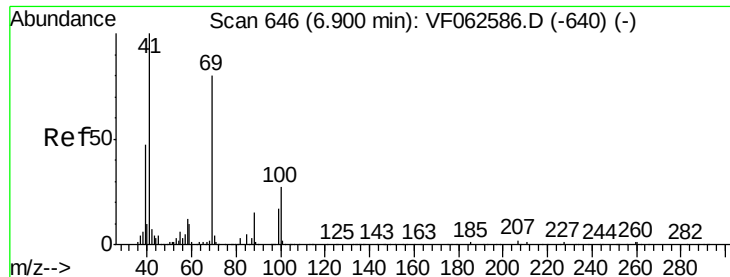


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 1003.078 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

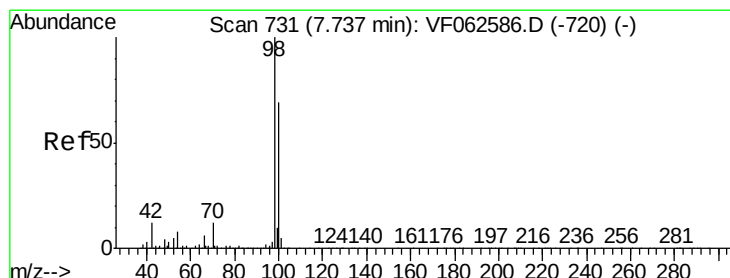
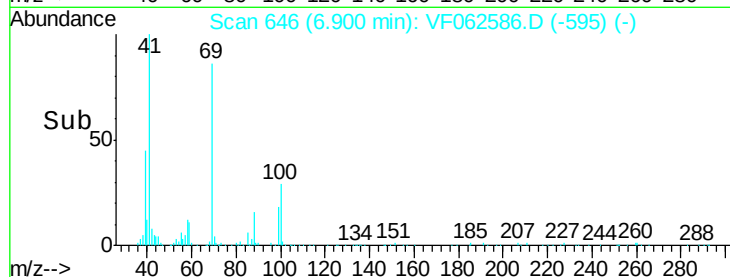
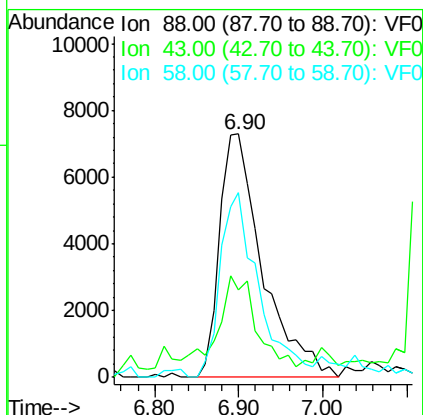
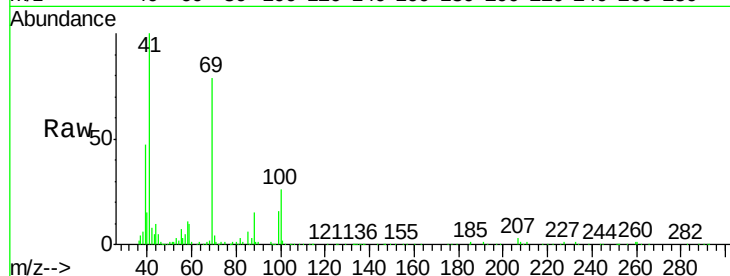
Tot Ion: 88 Resp: 25902

Ion Ratio Lower Upper

88 100

43 36.0 28.8 43.2

58 75.7 60.6 90.8



#50

Toluene-d8

Concen: 42.272 ug/l

RT: 7.74 min Scan# 731

Delta R.T. 0.00 min

Lab File: VF062586.D

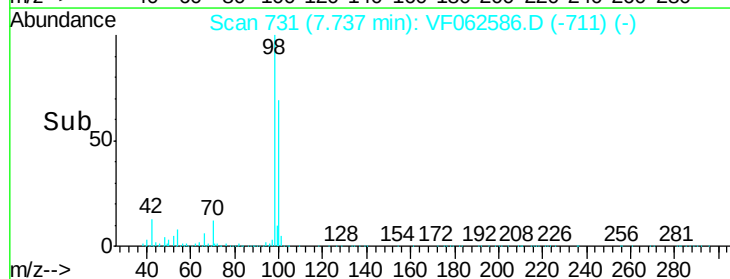
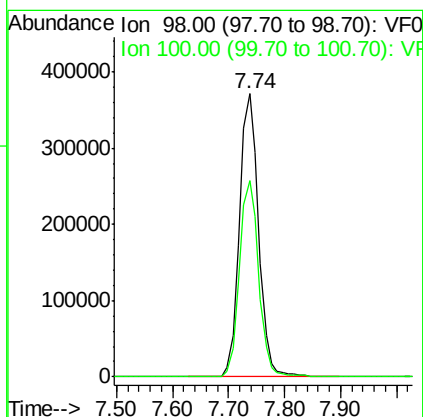
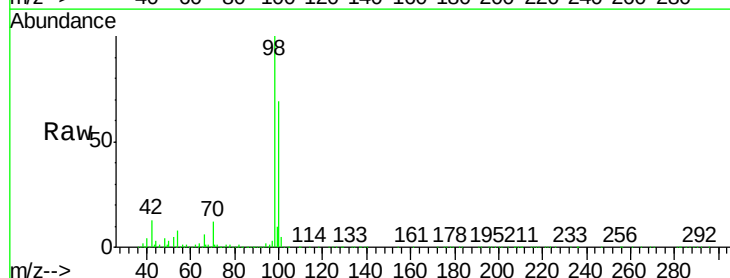
Acq: 14 May 2019 16:52

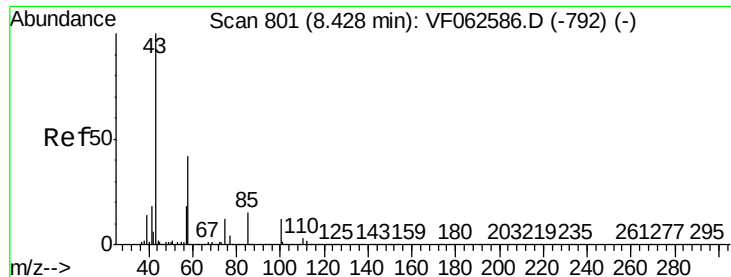
Tgt Ion: 98 Resp: 876585

Ion Ratio Lower Upper

98 100

100 69.2 55.4 83.0





#51

4-Methyl-2-Pentanone

Concen: 180.504 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

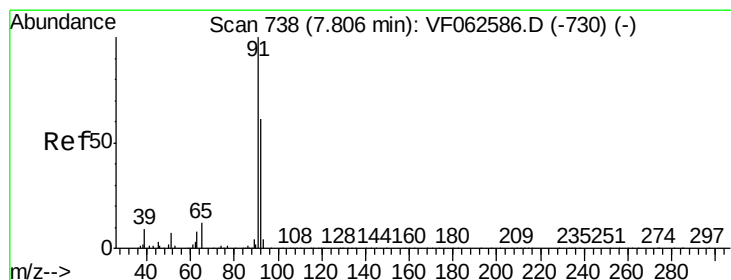
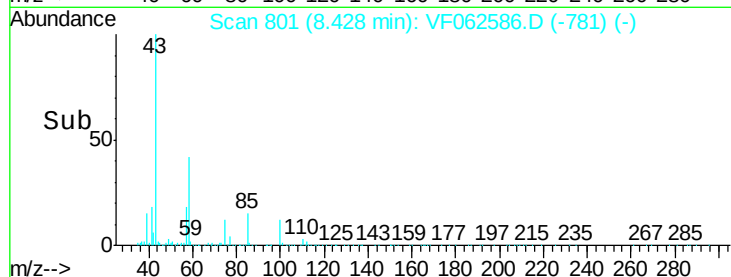
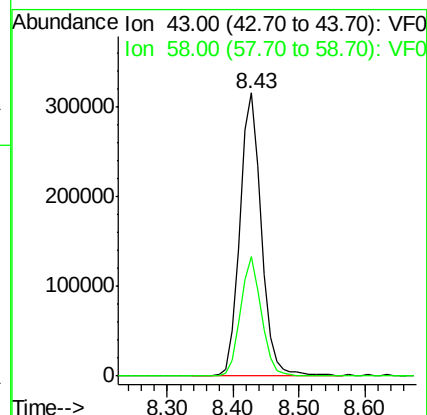
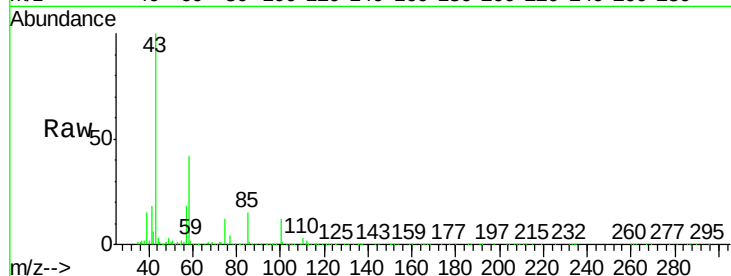
VSTDICCC050

Tot Ion: 43 Resp: 727536

Ion Ratio Lower Upper

43 100

58 42.0 33.6 50.4



#52

Toluene

Concen: 38.252 ug/l

RT: 7.81 min Scan# 738

Delta R.T. 0.00 min

Lab File: VF062586.D

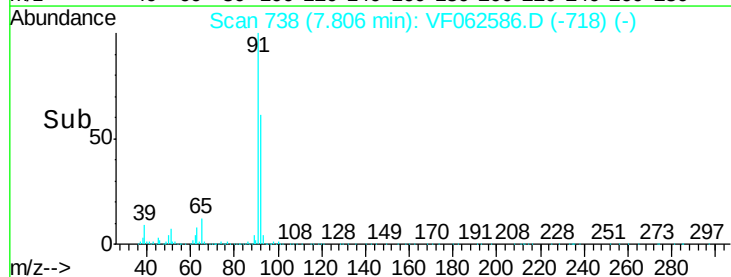
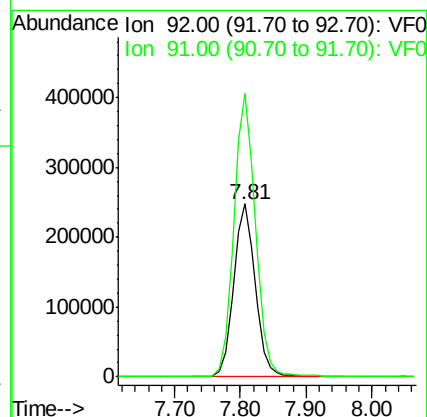
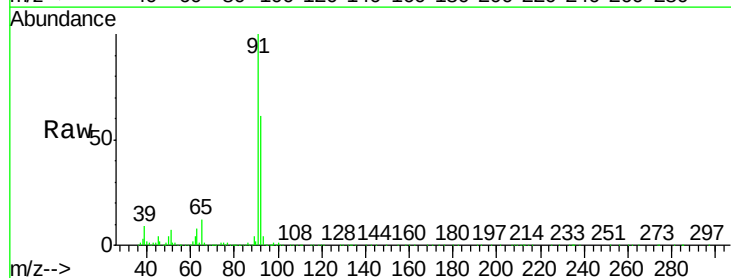
Acq: 14 May 2019 16:52

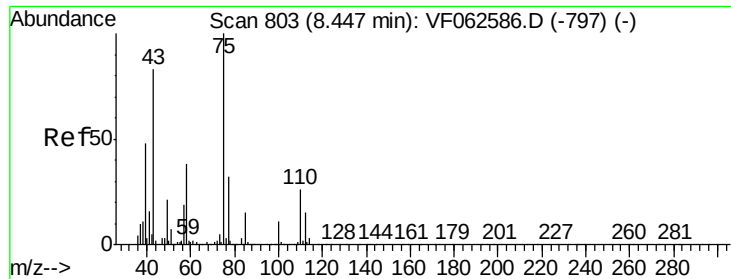
Tgt Ion: 92 Resp: 572281

Ion Ratio Lower Upper

92 100

91 163.7 131.0 196.4

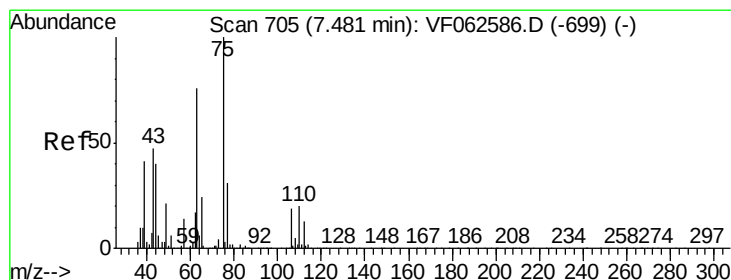
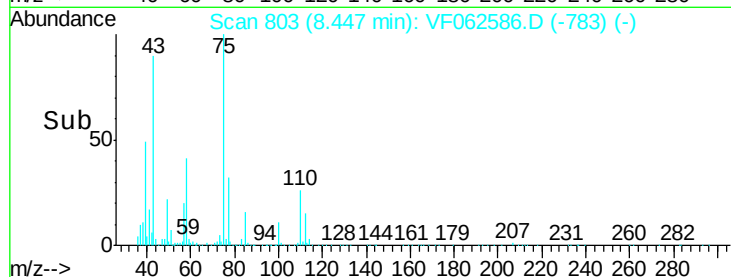
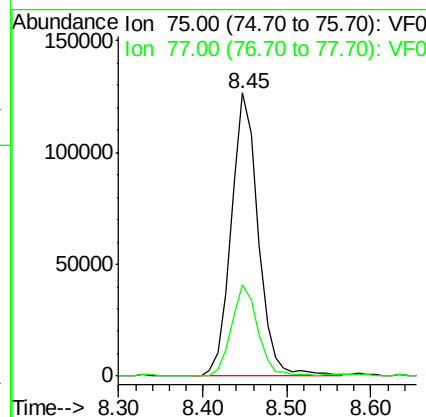
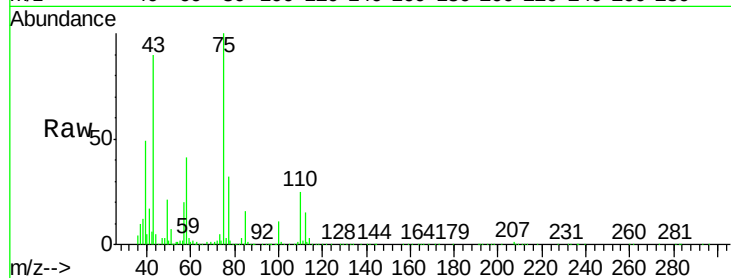




#53  
t-1,3-Dichloropropene  
Concen: 34.674 ug/l  
RT: 8.45 min Scan# 803  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

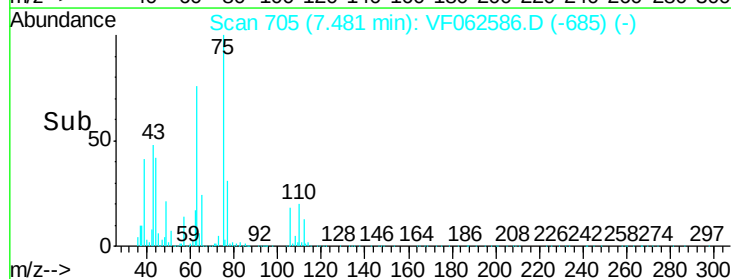
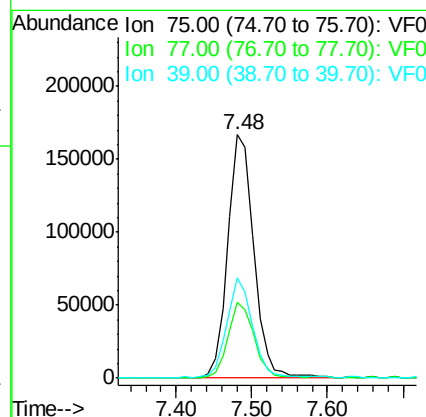
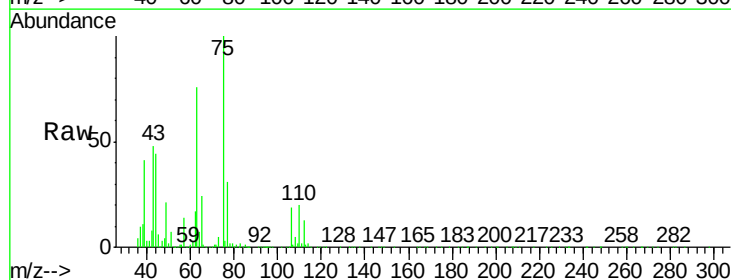
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

Tot Ion: 75 Resp: 280917  
Ion Ratio Lower Upper  
75 100  
77 32.1 25.7 38.5

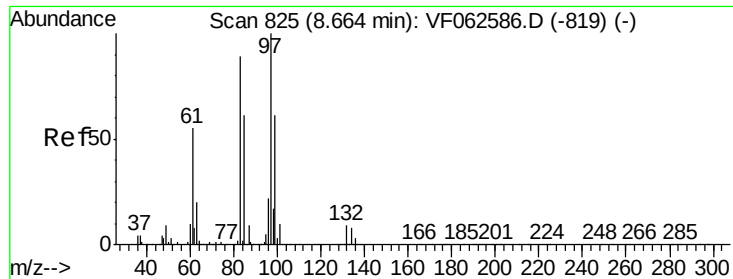


#54  
cis-1,3-Dichloropropene  
Concen: 39.693 ug/l  
RT: 7.48 min Scan# 705  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Tgt Ion: 75 Resp: 399127  
Ion Ratio Lower Upper  
75 100  
77 31.3 25.0 37.6  
39 41.0 32.8 49.2



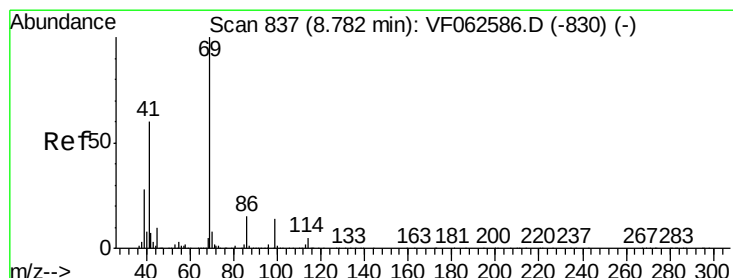
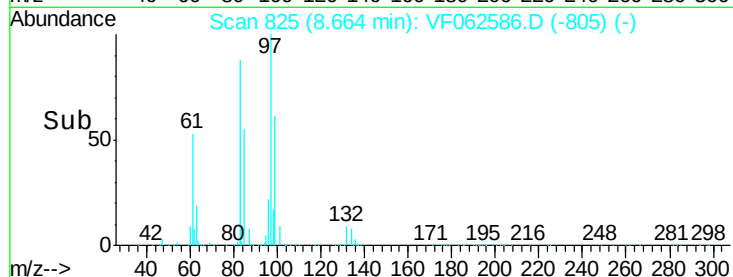
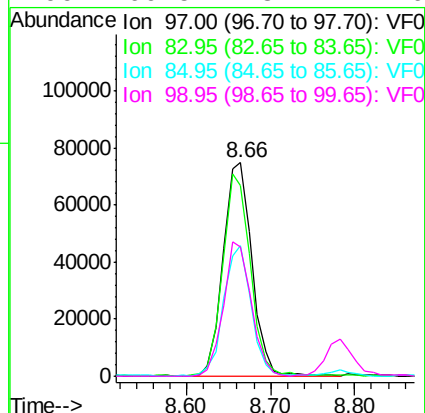
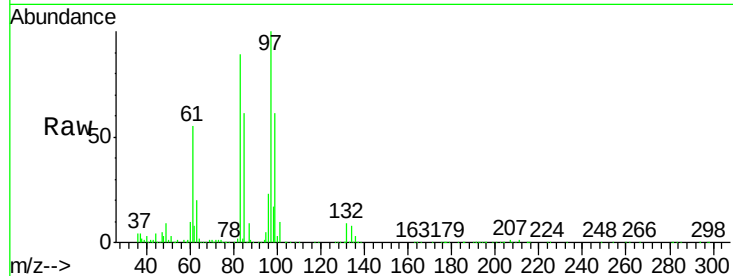




#55  
 1,1,2-Trichloroethane  
 Concen: 42.479 ug/l  
 RT: 8.66 min Scan# 825  
 Delta R.T. 0.00 min  
 Lab File: VF062586.D  
 Acq: 14 May 2019 16:52

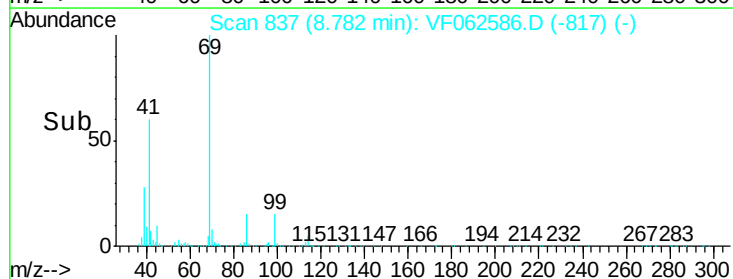
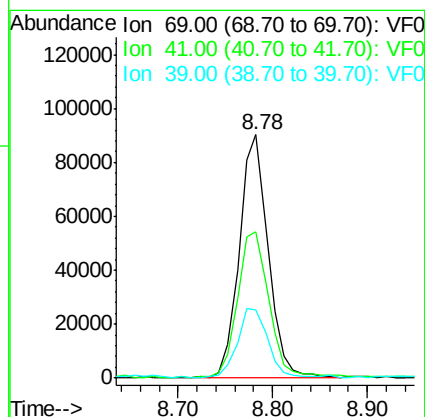
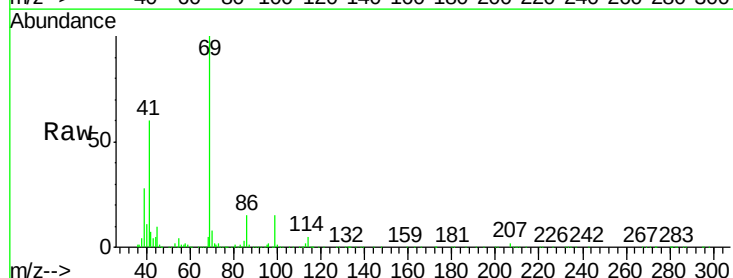
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

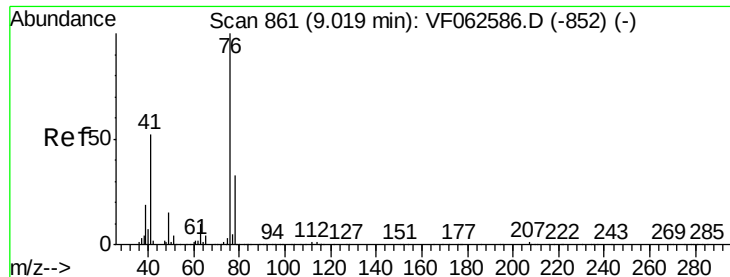
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 177796 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 89.1  | 71.3  | 106.9  |
| 85       | 61.1  | 48.9  | 73.3   |
| 99       | 60.5  | 48.4  | 72.6   |



#56  
 Ethyl methacrylate  
 Concen: 34.890 ug/l  
 RT: 8.78 min Scan# 837  
 Delta R.T. 0.00 min  
 Lab File: VF062586.D  
 Acq: 14 May 2019 16:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 191387 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 60.1  | 48.1  | 72.1   |
| 39       | 28.1  | 22.5  | 33.7   |





#57

1,3-Dichloropropane

Concen: 40.509 ug/l

RT: 9.02 min Scan# 861

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

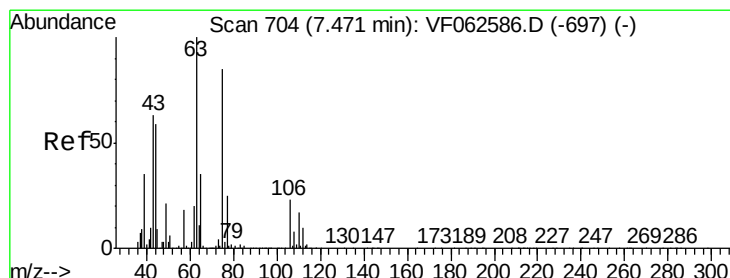
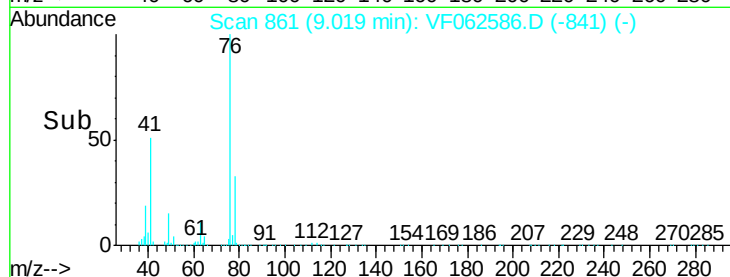
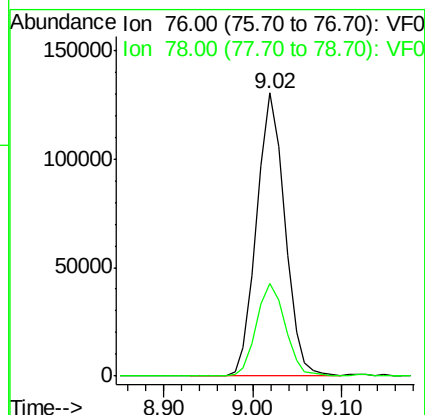
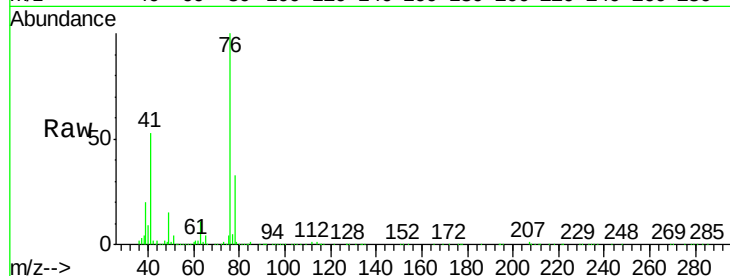
VSTDICCC050

Tot Ion: 76 Resp: 285513

Ion Ratio Lower Upper

76 100

78 33.0 26.4 39.6



#58

2-Chloroethyl Vinyl ether

Concen: 354.383 ug/l

RT: 7.47 min Scan# 704

Delta R.T. 0.00 min

Lab File: VF062586.D

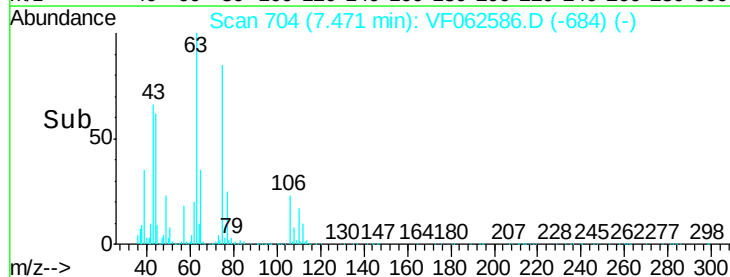
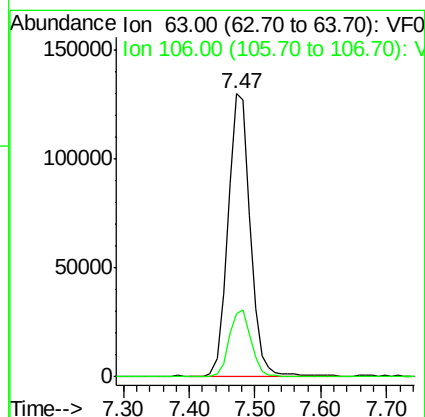
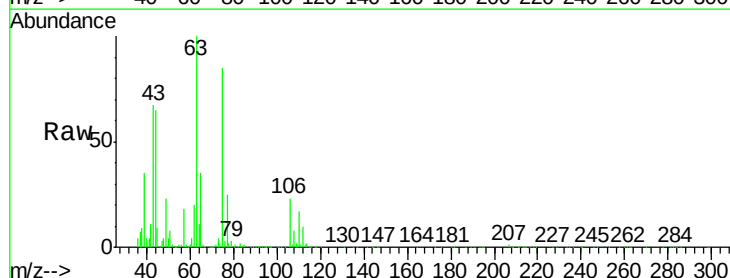
Acq: 14 May 2019 16:52

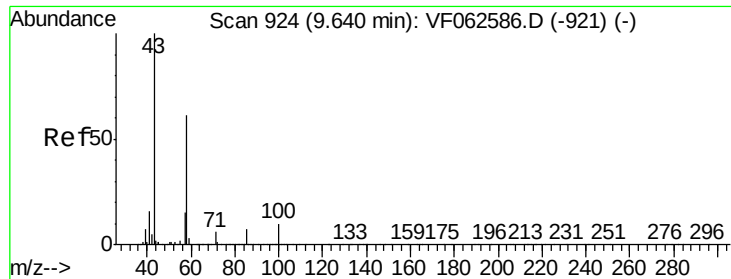
Tgt Ion: 63 Resp: 307435

Ion Ratio Lower Upper

63 100

106 22.5 18.0 27.0

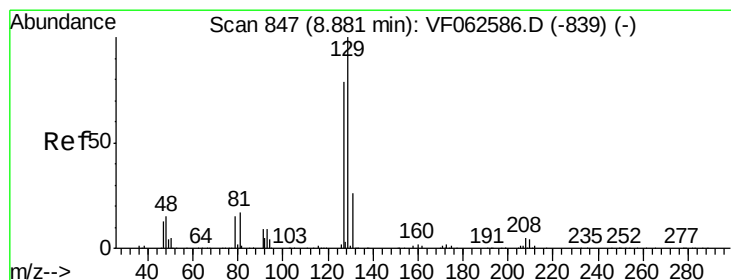
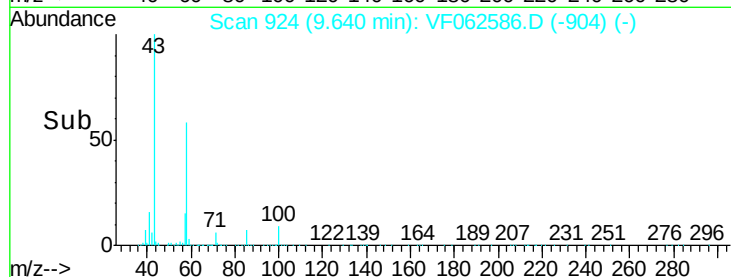
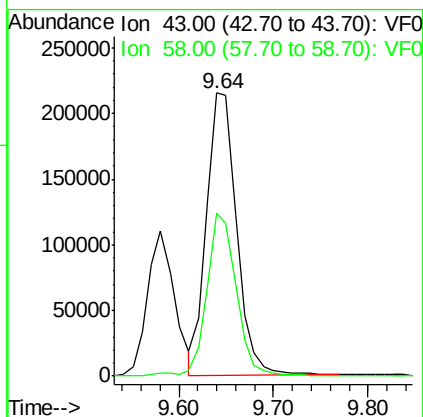
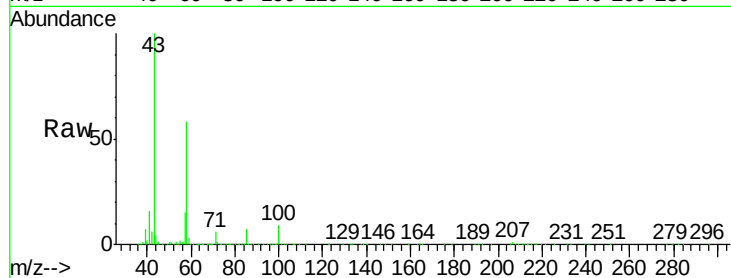




#59  
2-Hexanone  
Concen: 168.164 ug/l  
RT: 9.64 min Scan# 924  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

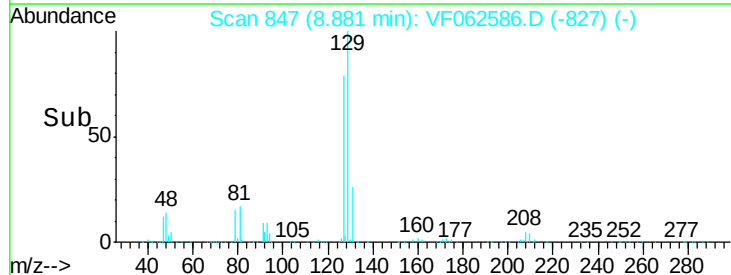
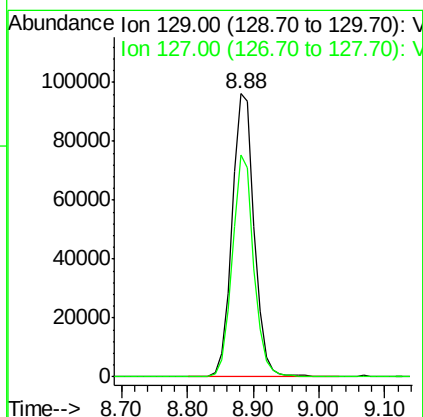
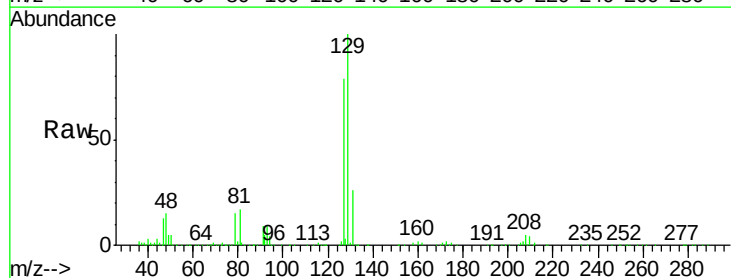
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

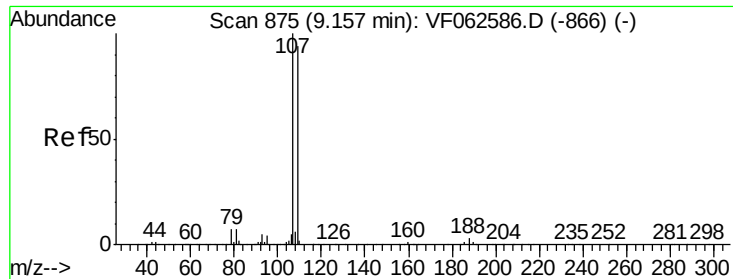
Tot Ion: 43 Resp: 477302  
Ion Ratio Lower Upper  
43 100  
58 57.5 28.7 86.3



#60  
Dibromochloromethane  
Concen: 38.198 ug/l  
RT: 8.88 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Tgt Ion: 129 Resp: 227687  
Ion Ratio Lower Upper  
129 100  
127 78.6 39.3 117.9





#61

1,2-Dibromoethane

Concen: 39.634 ug/l

RT: 9.16 min Scan# 875

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

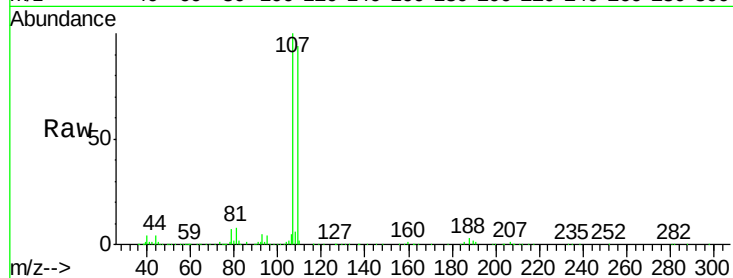
VSTDICCC050

Tot Ion:107 Resp: 174459

Ion Ratio Lower Upper

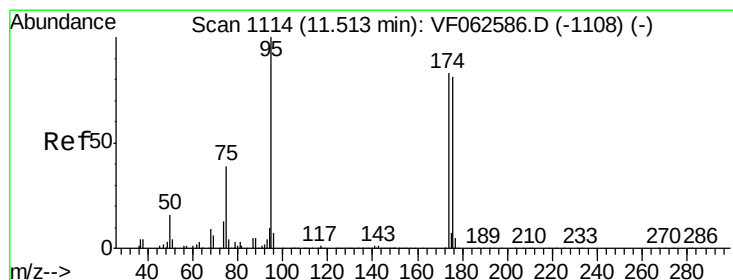
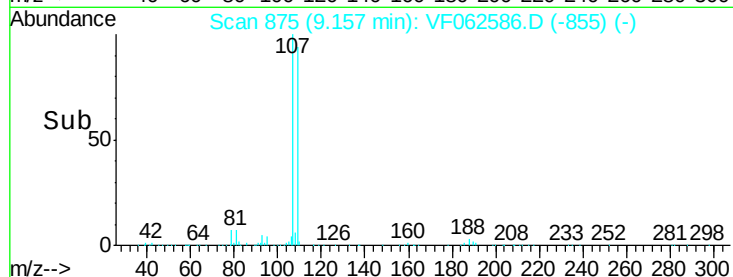
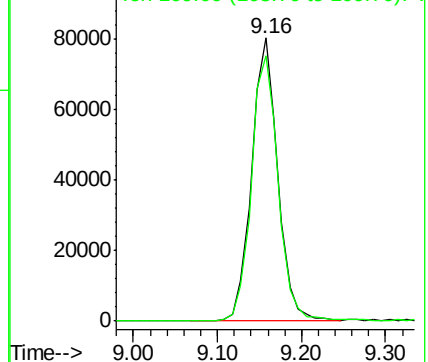
107 100

109 93.6 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 36.885 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

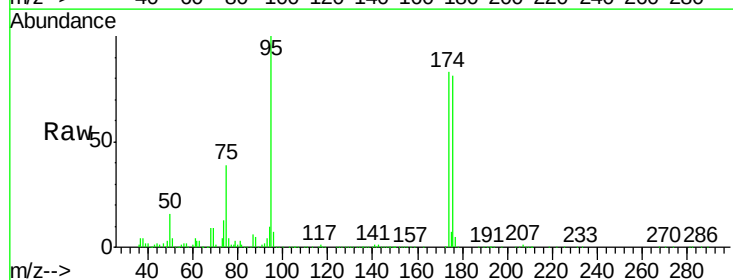
Tgt Ion: 95 Resp: 305535

Ion Ratio Lower Upper

95 100

174 83.3 0.0 166.6

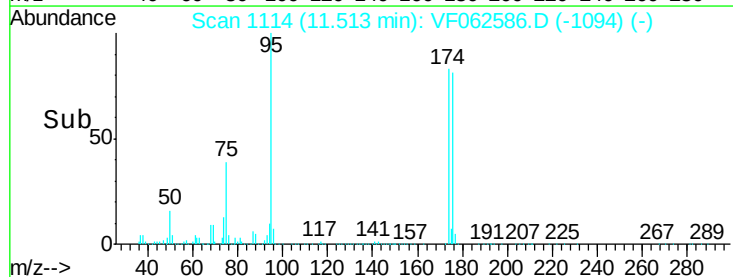
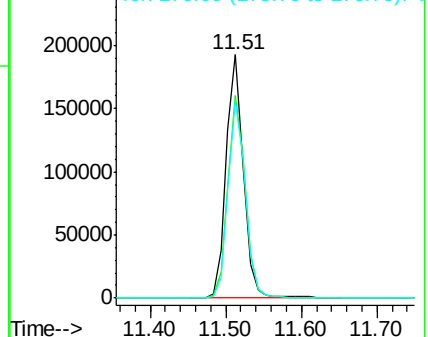
176 80.9 0.0 161.8

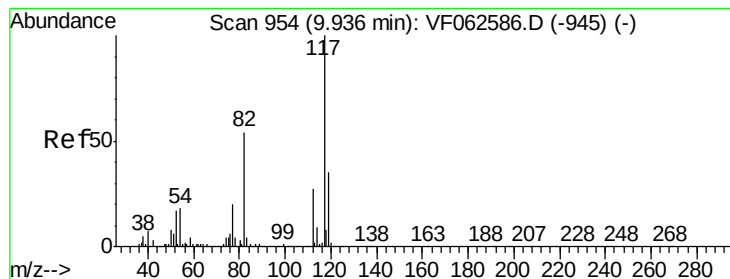


Abundance Ion 95.00 (94.70 to 95.70): VF0

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: 9.94 min Scan# 954

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

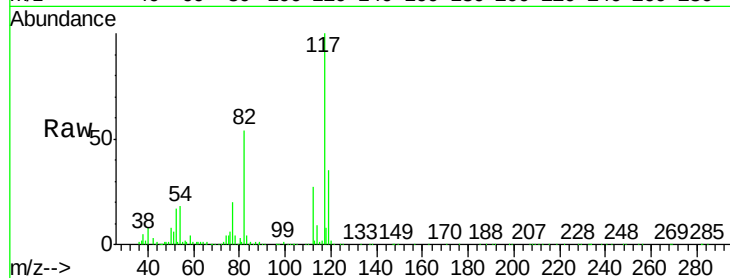
Tot Ion:117 Resp: 718548

Ion Ratio Lower Upper

117 100

82 54.2 43.4 65.0

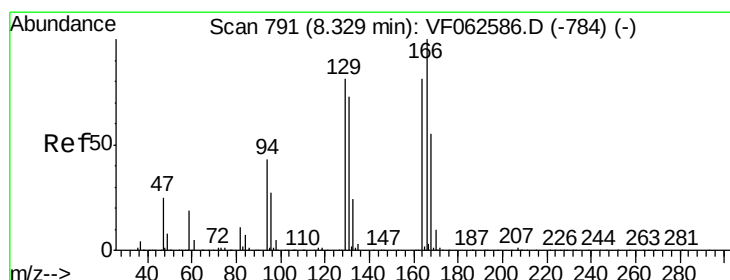
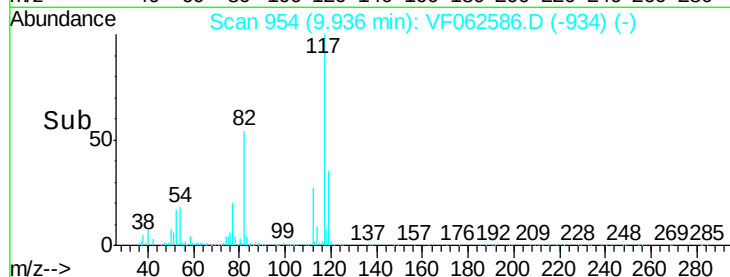
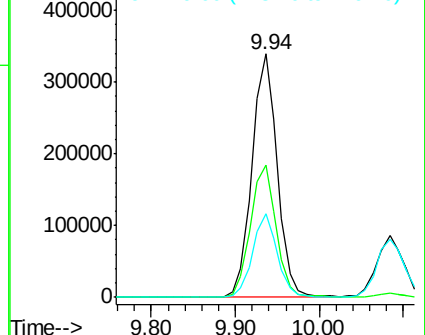
119 34.6 27.7 41.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 40.835 ug/l

RT: 8.33 min Scan# 791

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Tgt Ion:164 Resp: 213795

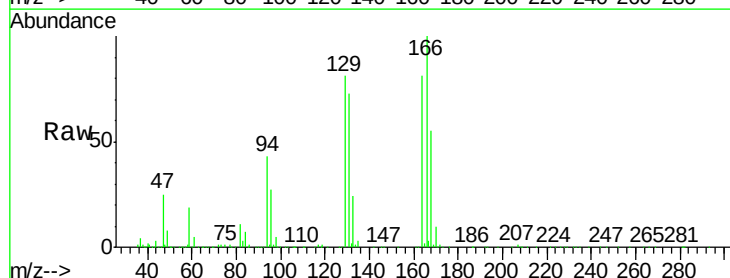
Ion Ratio Lower Upper

164 100

166 123.3 98.6 148.0

129 100.3 80.2 120.4

131 89.7 71.8 107.6

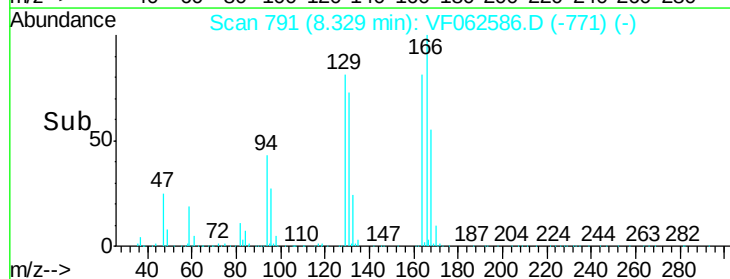
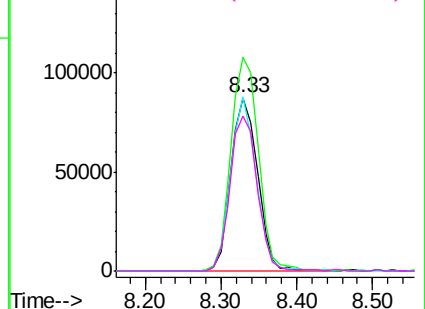


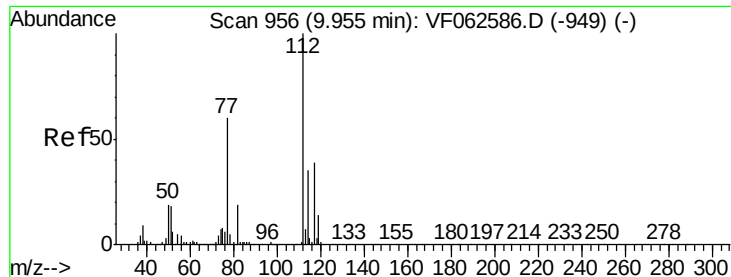
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

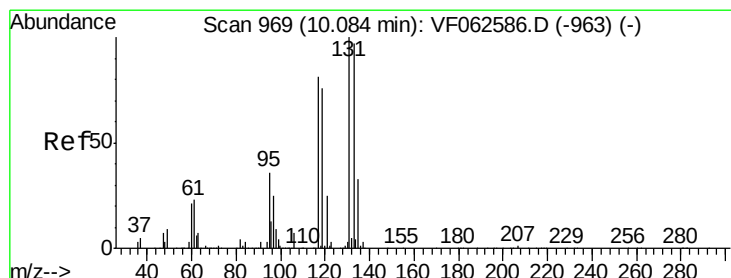
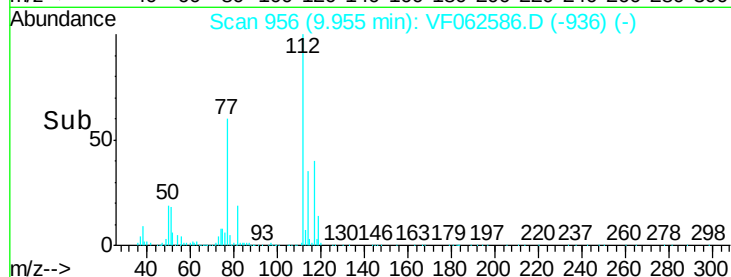
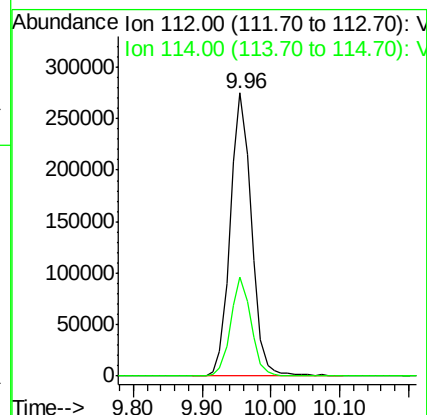
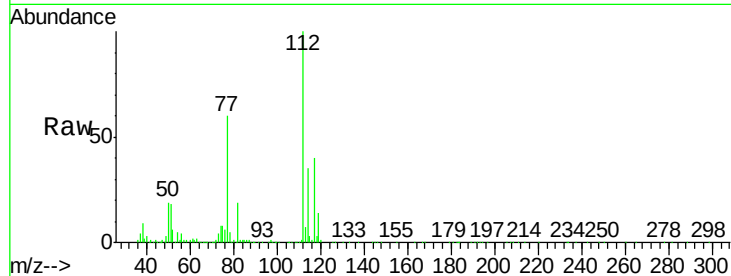




#65  
Chlorobenzene  
Concen: 42.595 ug/l  
RT: 9.96 min Scan# 956  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

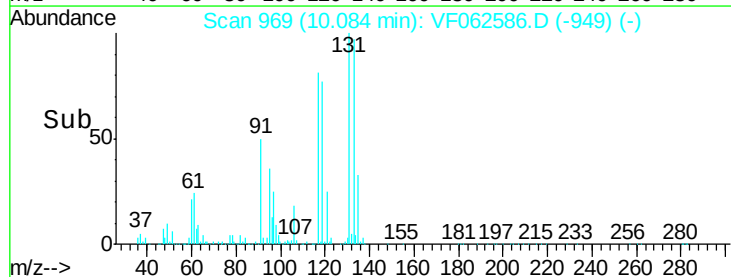
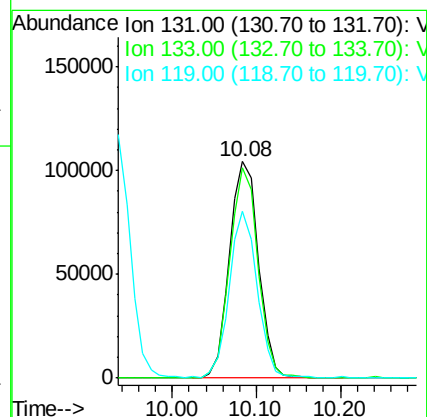
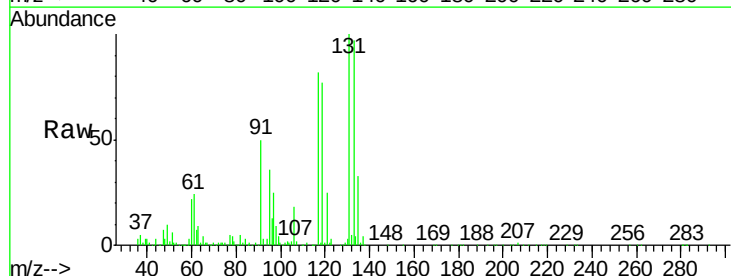
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

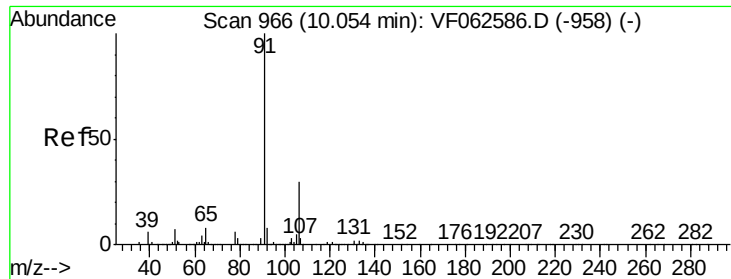
Tot Ion:112 Resp: 588500  
Ion Ratio Lower Upper  
112 100  
114 34.9 27.9 41.9



#66  
1,1,1,2-Tetrachloroethane  
Concen: 42.036 ug/l  
RT: 10.08 min Scan# 969  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Tgt Ion:131 Resp: 250654  
Ion Ratio Lower Upper  
131 100  
133 96.9 48.4 145.3  
119 77.0 38.5 115.5





#67

Ethyl Benzene

Concen: 40.430 ug/l

RT: 10.05 min Scan# 966

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

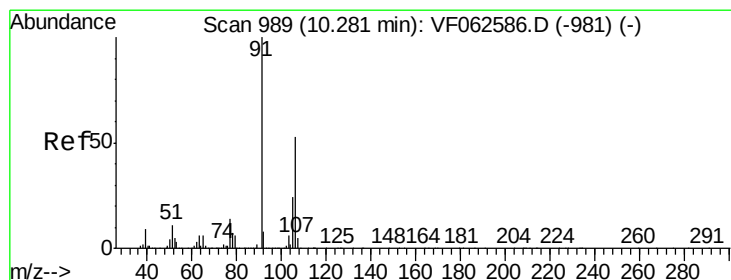
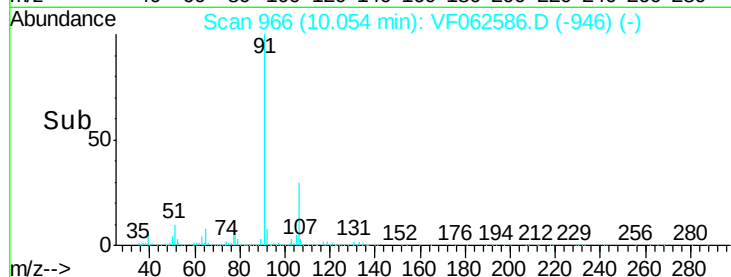
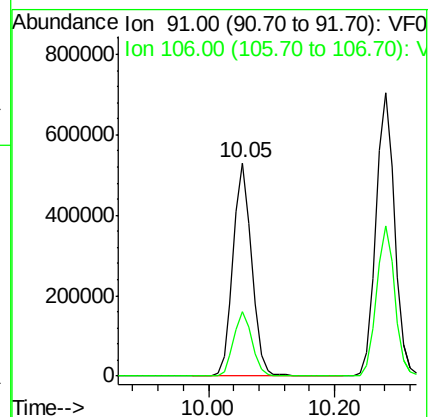
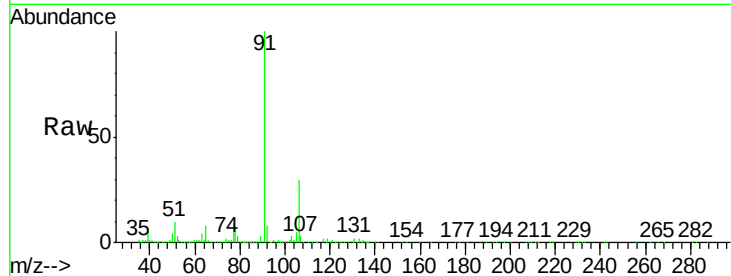
VSTDICCC050

Tot Ion: 91 Resp: 1079740

Ion Ratio Lower Upper

91 100

106 30.3 24.2 36.4



#68

m/p-Xylenes

Concen: 79.125 ug/l

RT: 10.28 min Scan# 989

Delta R.T. 0.00 min

Lab File: VF062586.D

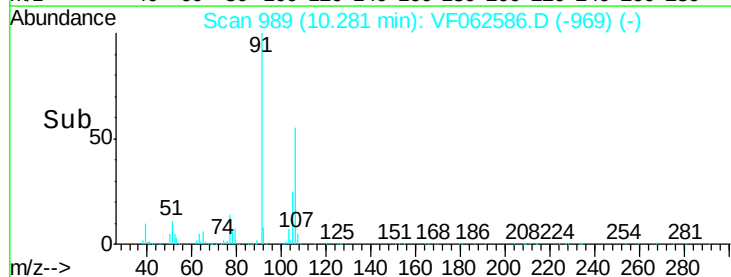
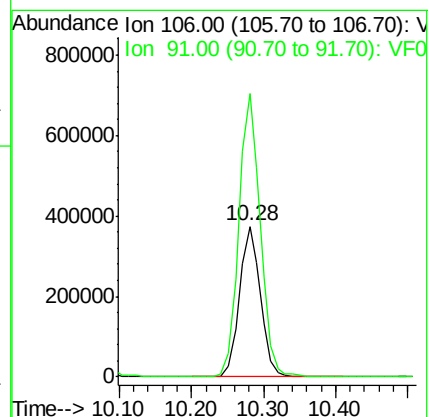
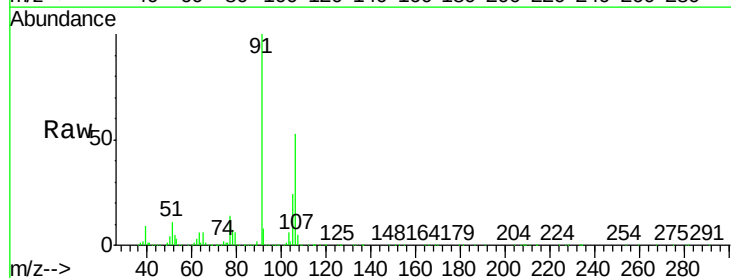
Acq: 14 May 2019 16:52

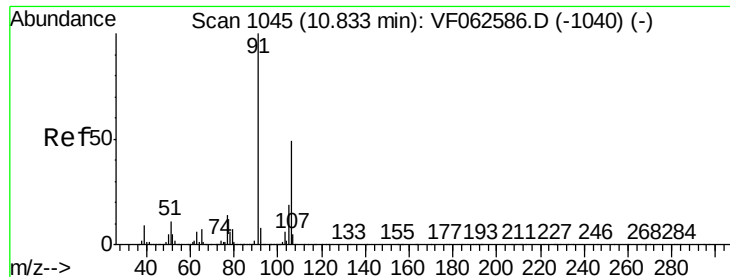
Tgt Ion: 106 Resp: 757187

Ion Ratio Lower Upper

106 100

91 188.1 150.5 225.7

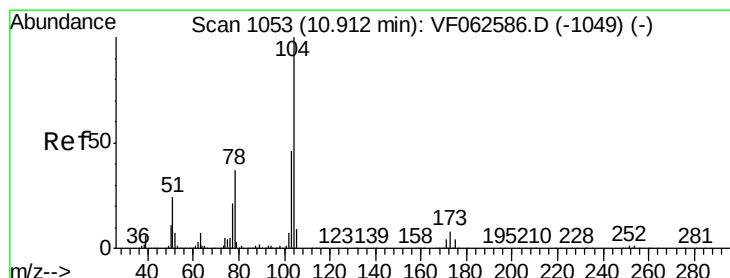
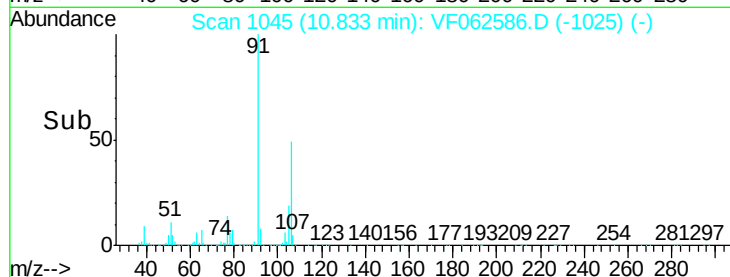
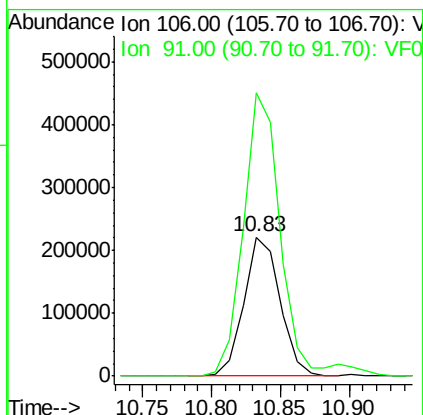
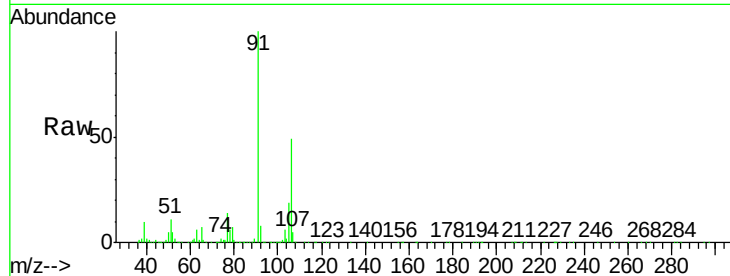




#69  
o-Xylene  
Concen: 42.114 ug/l  
RT: 10.83 min Scan# 1045  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

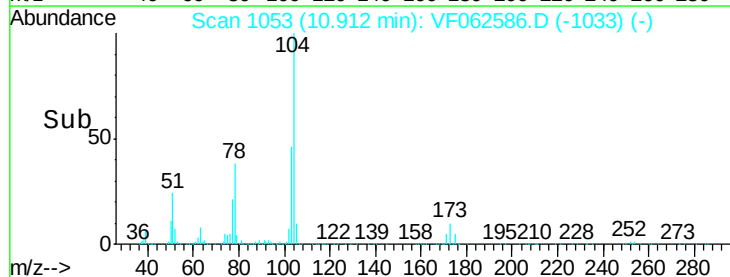
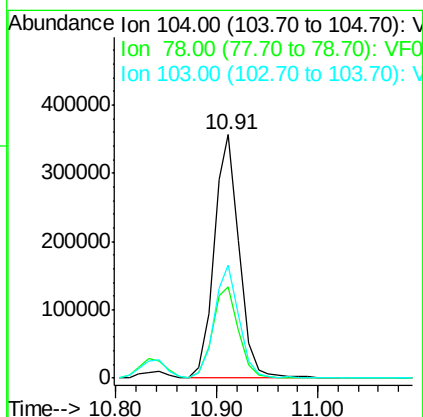
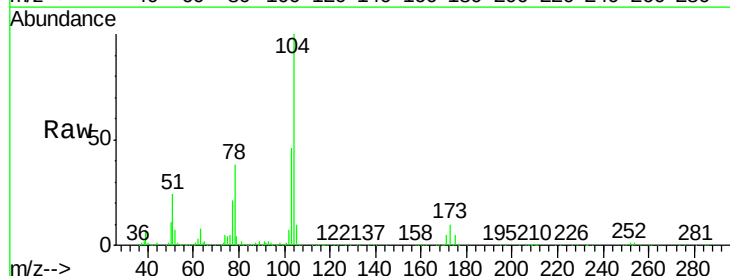
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

Tot Ion:106 Resp: 405383  
Ion Ratio Lower Upper  
106 100  
91 203.9 102.0 305.9

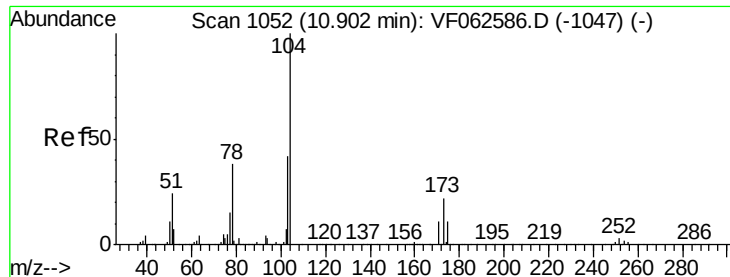


#70  
Styrene  
Concen: 41.650 ug/l  
RT: 10.91 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Tgt Ion:104 Resp: 613448  
Ion Ratio Lower Upper  
104 100  
78 37.7 30.2 45.2  
103 46.3 37.0 55.6







#71

Bromoform

Concen: 40.730 ug/l

RT: 10.90 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

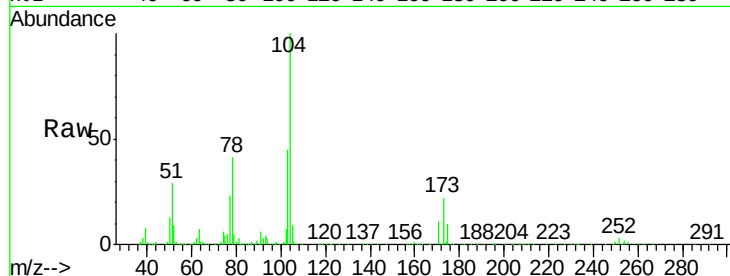
Tot Ion:173 Resp: 124071

Ion Ratio Lower Upper

173 100

175 48.2 24.1 72.3

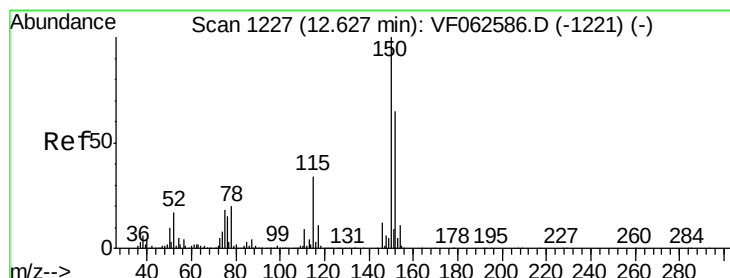
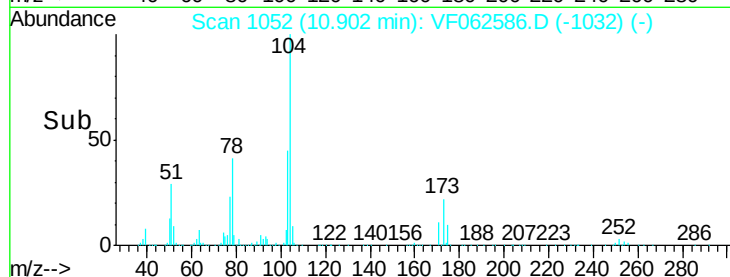
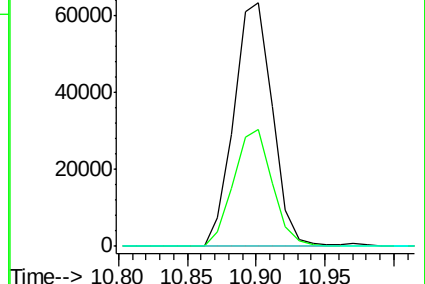
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

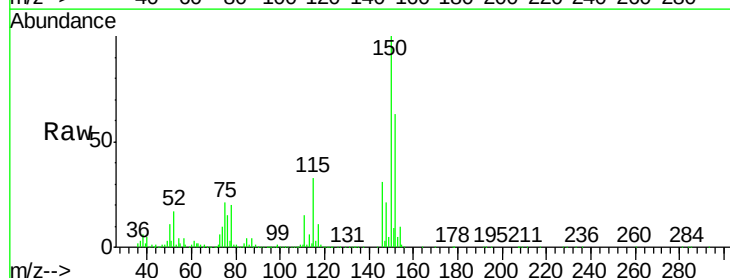
Tgt Ion:152 Resp: 367967

Ion Ratio Lower Upper

152 100

115 52.4 26.2 78.6

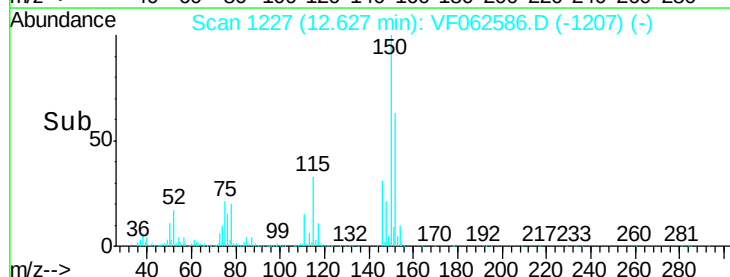
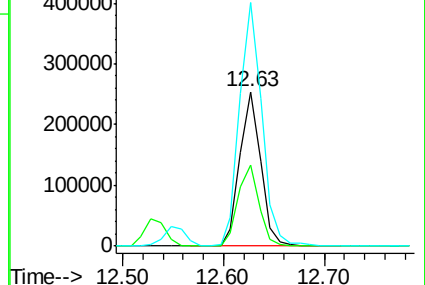
150 158.0 0.0 316.0

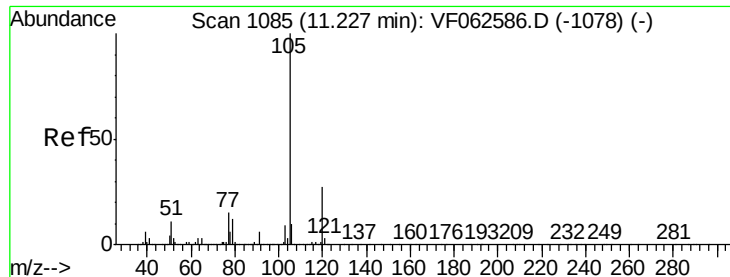


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 38.384 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

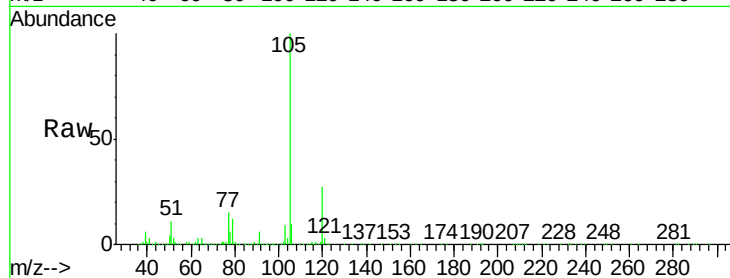
VSTDICCC050

Tot Ion:105 Resp: 1140083

Ion Ratio Lower Upper

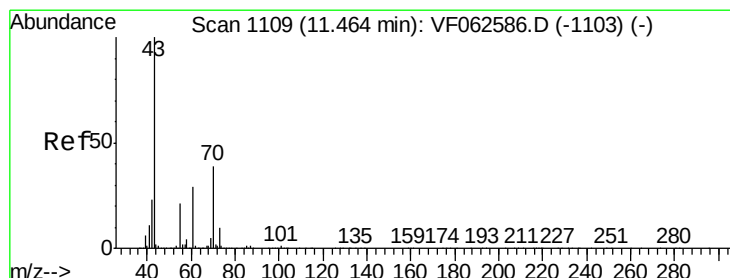
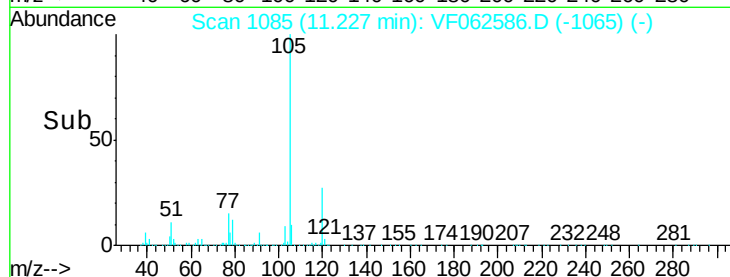
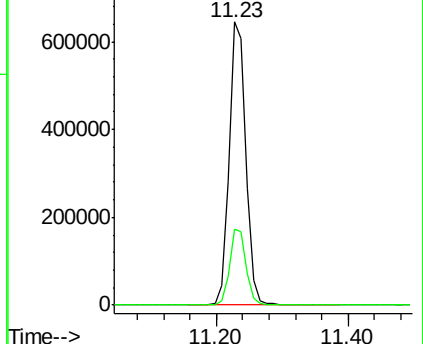
105 100

120 26.9 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 35.074 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Tgt Ion: 43 Resp: 278802

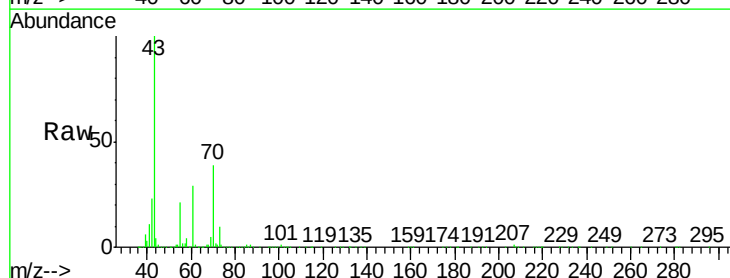
Ion Ratio Lower Upper

43 100

70 38.7 31.0 46.4

55 20.9 16.7 25.1

61 29.3 23.4 35.2

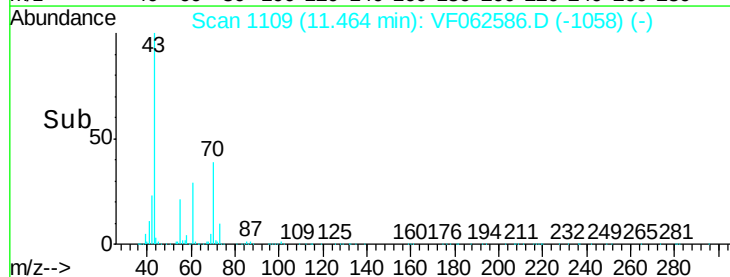
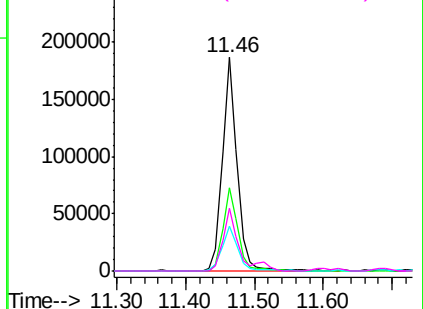


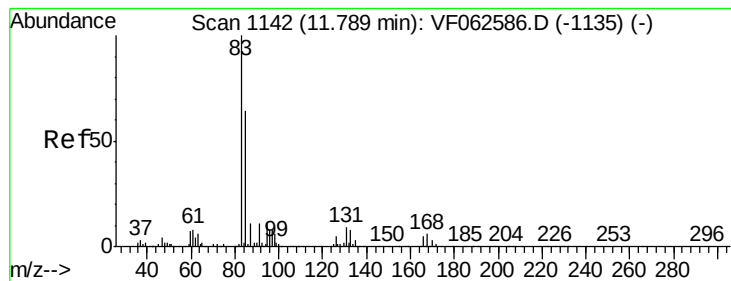
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 47.030 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

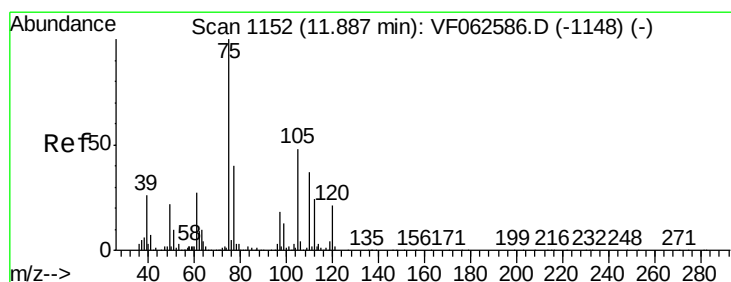
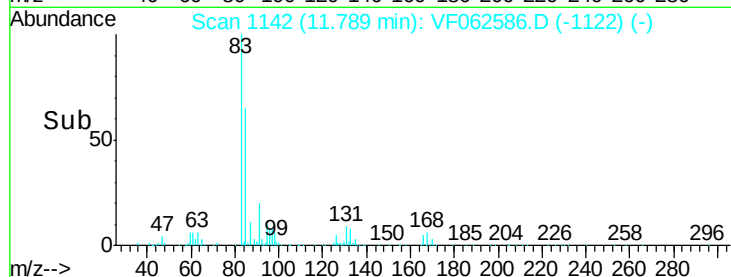
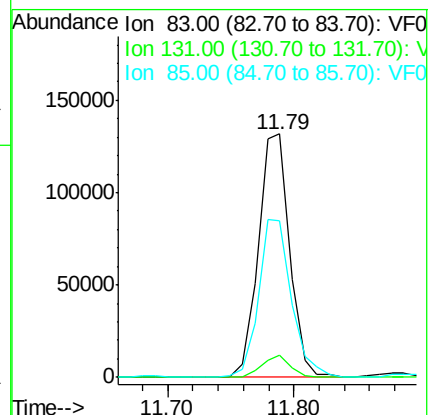
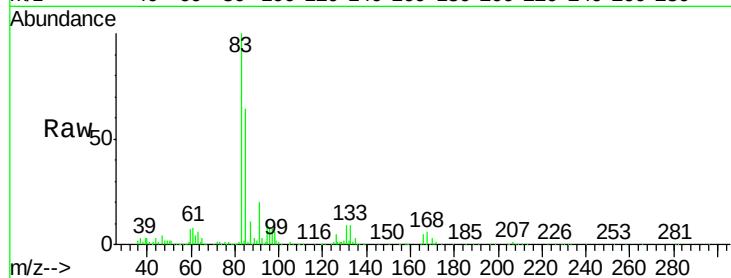
Tot Ion: 83 Resp: 228134

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 9.2   | 4.6   | 13.8  |
| 85  | 64.2  | 32.1  | 96.3  |

83 100

131 9.2 4.6 13.8

85 64.2 32.1 96.3



#76

1,2,3-Trichloropropane

Concen: 39.689 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF062586.D

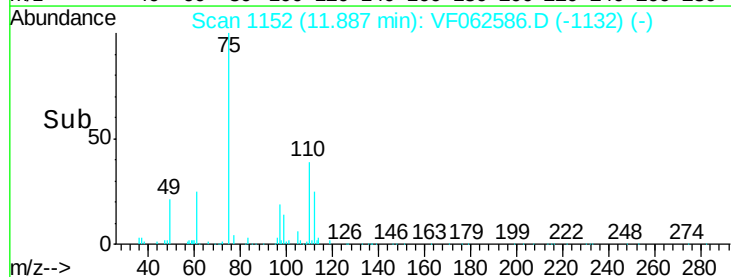
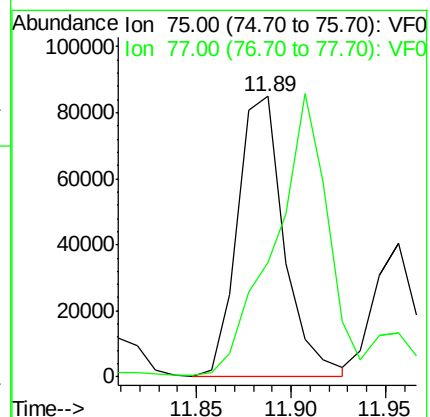
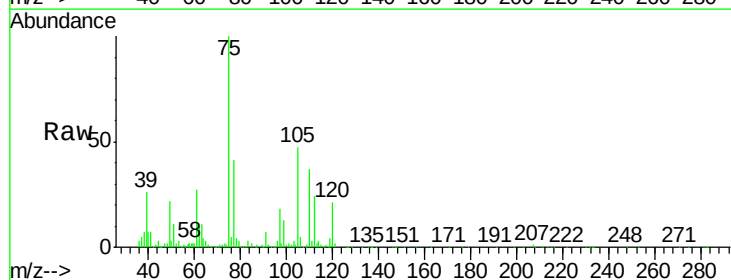
Acq: 14 May 2019 16:52

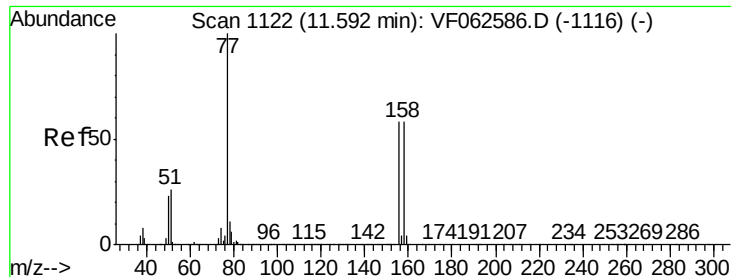
Tgt Ion: 75 Resp: 144502

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 40.9  | 20.4  | 61.3  |

75 100

77 40.9 20.4 61.3

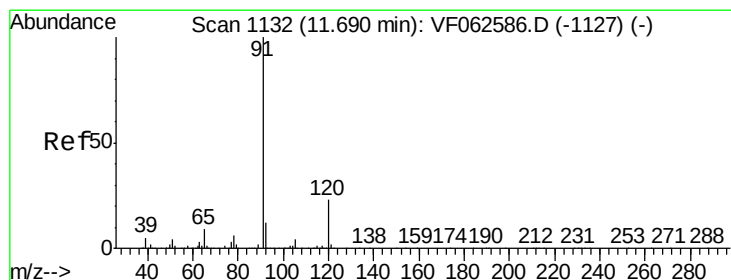
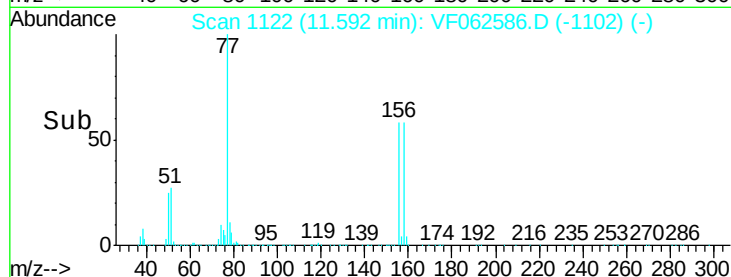
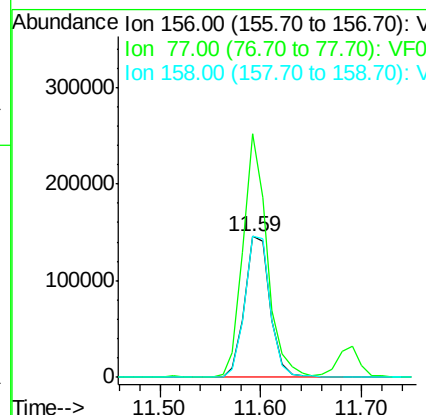
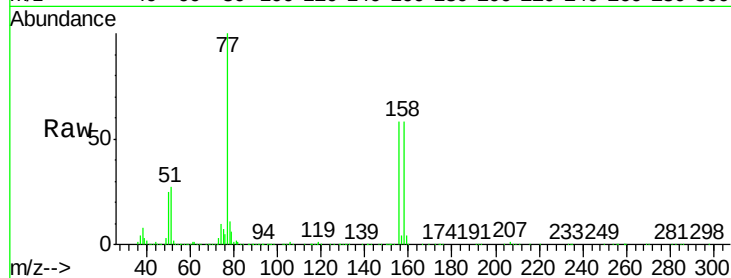




#77  
Bromobenzene  
Concen: 40.921 ug/l  
RT: 11.59 min Scan# 1122  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

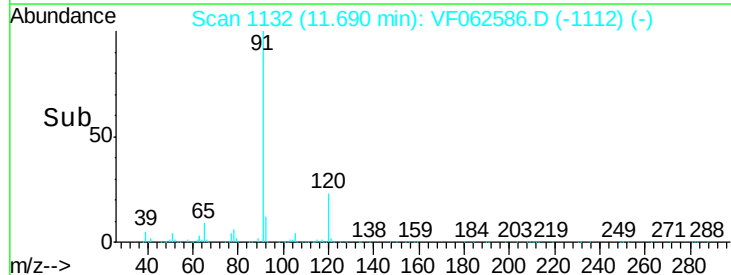
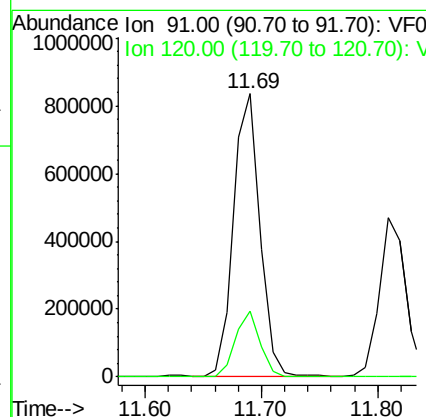
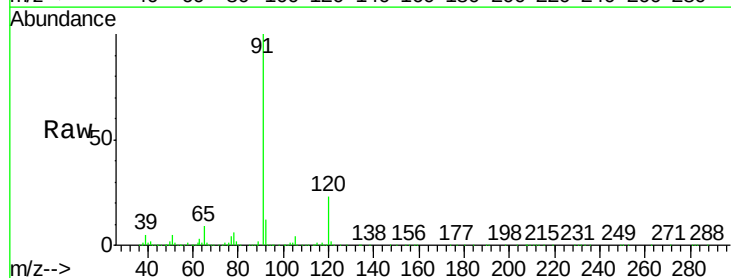
Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

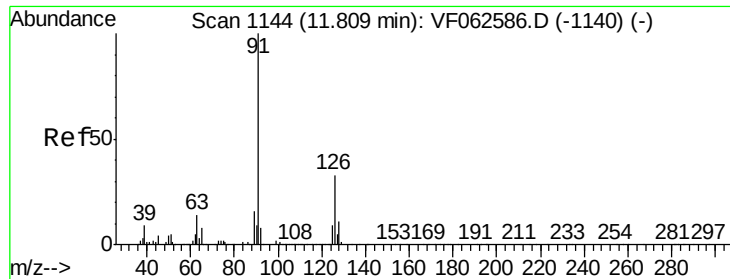
Tot Ion:156 Resp: 257354  
Ion Ratio Lower Upper  
156 100  
77 173.0 86.5 259.5  
158 100.6 50.3 150.9



#78  
n-propylbenzene  
Concen: 37.948 ug/l  
RT: 11.69 min Scan# 1132  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Tgt Ion: 91 Resp: 1311679  
Ion Ratio Lower Upper  
91 100  
120 23.4 11.7 35.1





#79

2-Chlorotoluene

Concen: 37.353 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

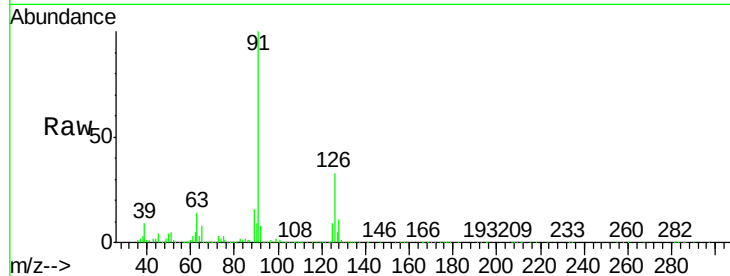
VSTDICCC050

Tot Ion: 91 Resp: 737490

Ion Ratio Lower Upper

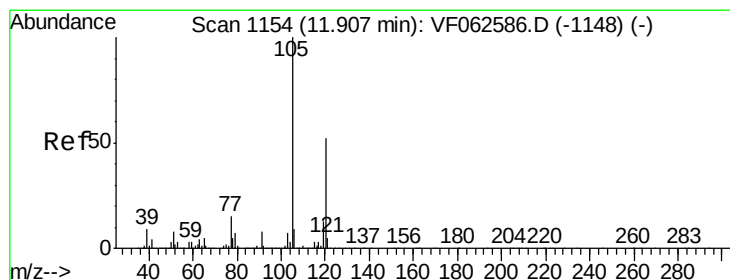
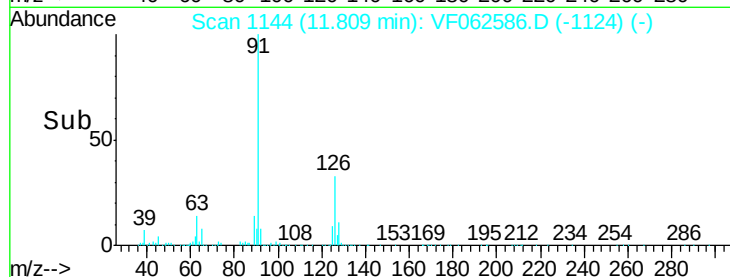
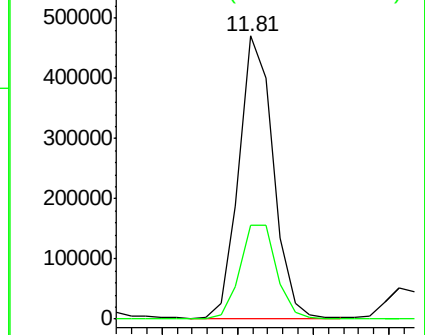
91 100

126 33.2 16.6 49.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 35.808 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VF062586.D

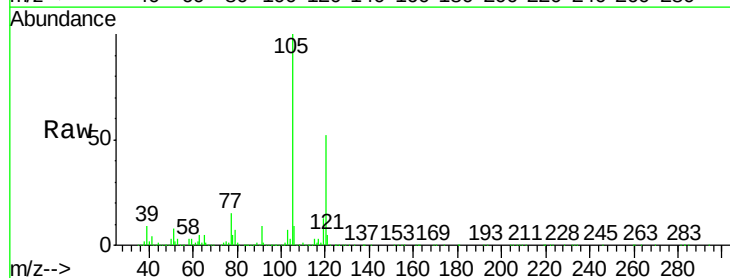
Acq: 14 May 2019 16:52

Tgt Ion: 105 Resp: 886274

Ion Ratio Lower Upper

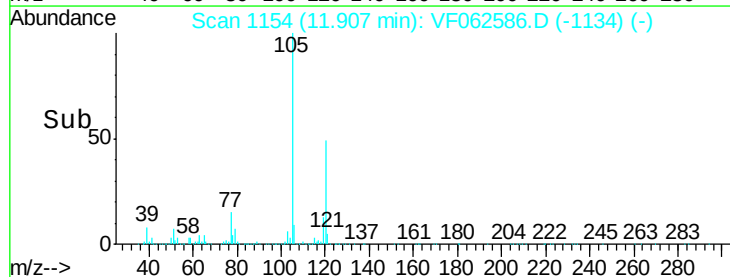
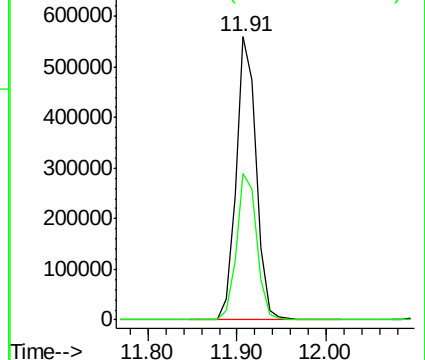
105 100

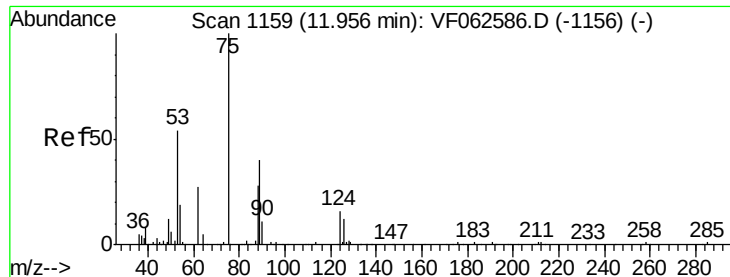
120 51.7 25.9 77.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 43.889 ug/l m

RT: 11.96 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

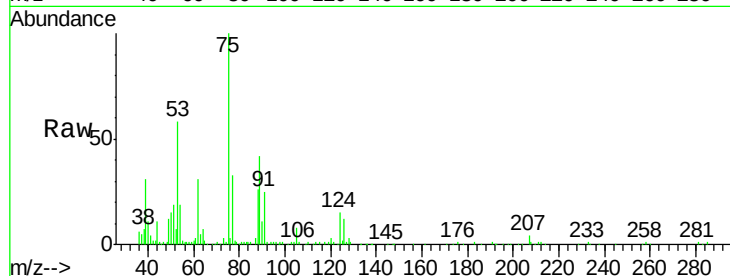
Tot Ion: 75 Resp: 64269

Ion Ratio Lower Upper

75 100

53 58.3 46.6 70.0

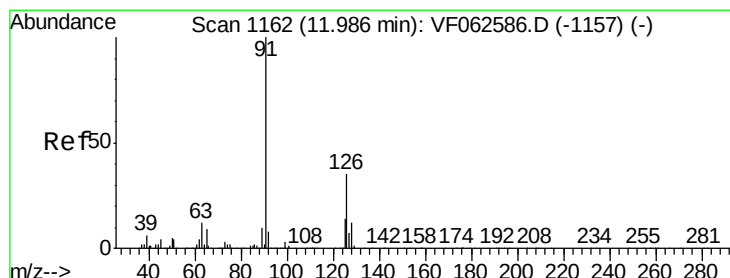
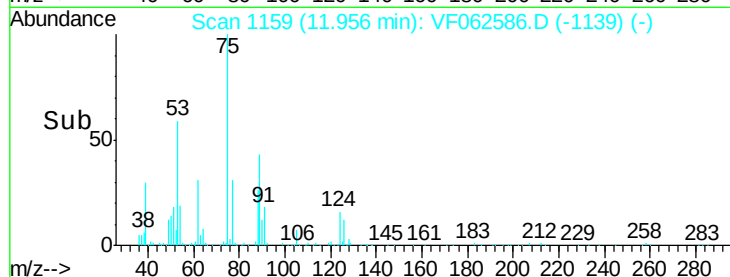
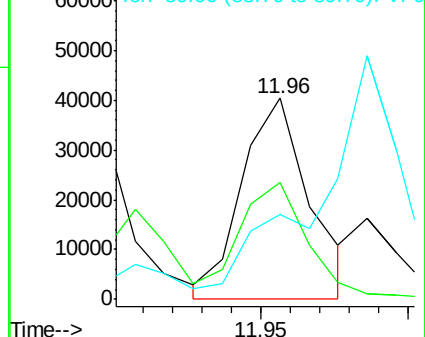
89 42.3 33.8 50.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 35.764 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. 0.00 min

Lab File: VF062586.D

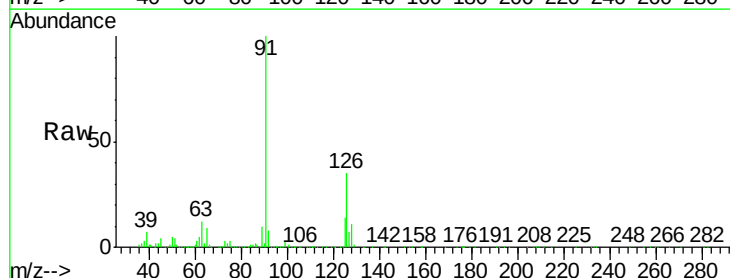
Acq: 14 May 2019 16:52

Tgt Ion: 91 Resp: 713842

Ion Ratio Lower Upper

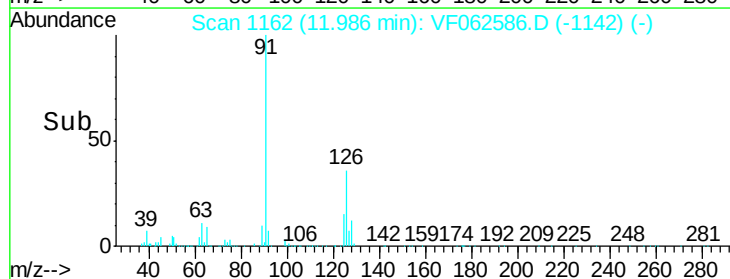
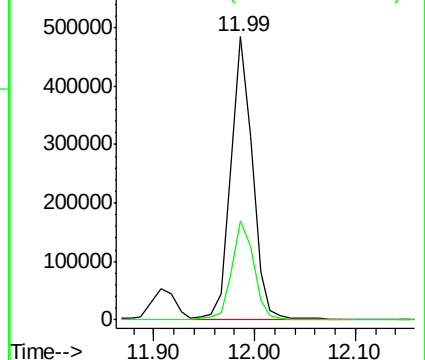
91 100

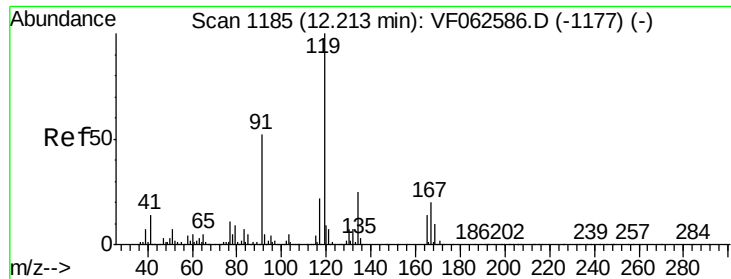
126 35.0 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

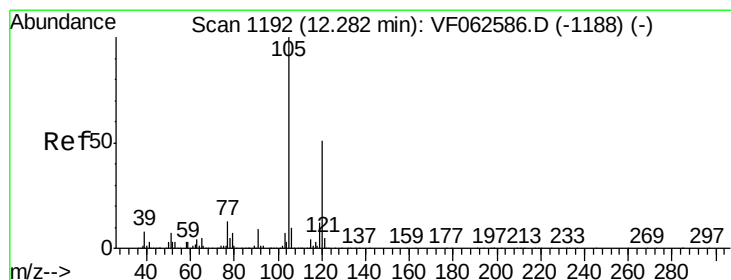
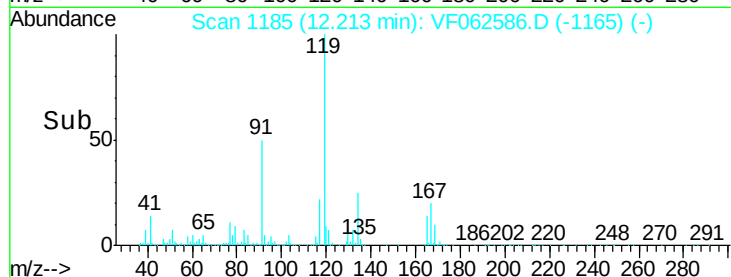
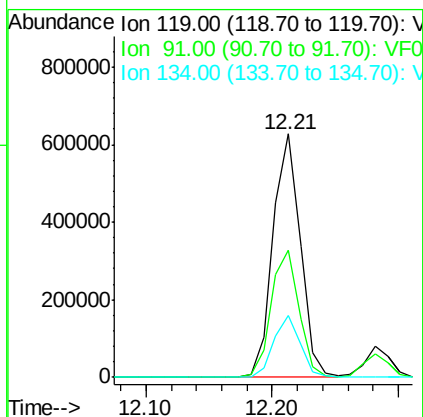
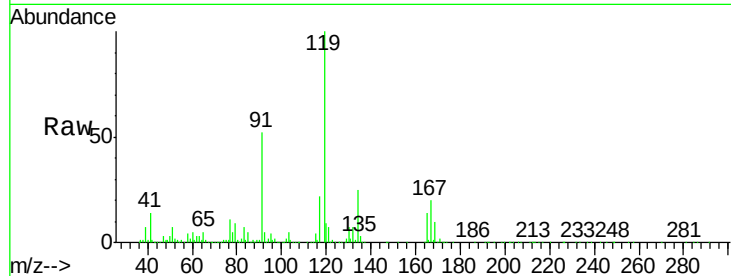




#83  
 tert-Butylbenzene  
 Concen: 37.961 ug/l  
 RT: 12.21 min Scan# 1185  
 Delta R.T. 0.00 min  
 Lab File: VF062586.D  
 Acq: 14 May 2019 16:52

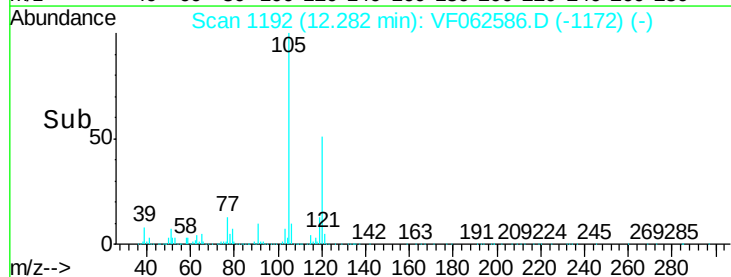
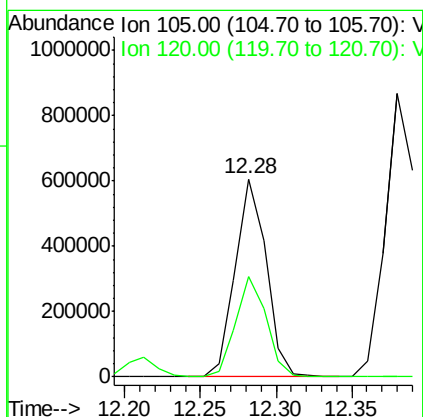
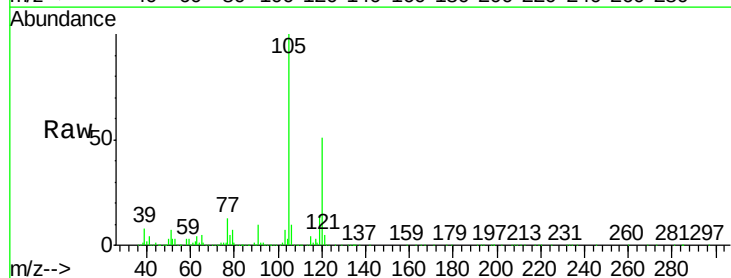
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

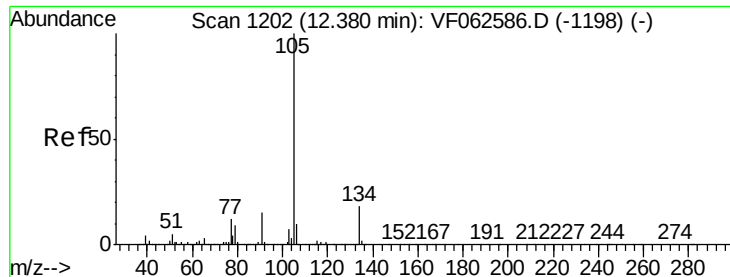
Tot Ion:119 Resp: 951211  
 Ion Ratio Lower Upper  
 119 100  
 91 52.0 26.0 78.0  
 134 25.2 12.6 37.8



#84  
 1,2,4-Trimethylbenzene  
 Concen: 35.095 ug/l  
 RT: 12.28 min Scan# 1192  
 Delta R.T. 0.00 min  
 Lab File: VF062586.D  
 Acq: 14 May 2019 16:52

Tgt Ion:105 Resp: 865250  
 Ion Ratio Lower Upper  
 105 100  
 120 50.7 25.4 76.0





#85

sec-Butylbenzene

Concen: 39.270 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

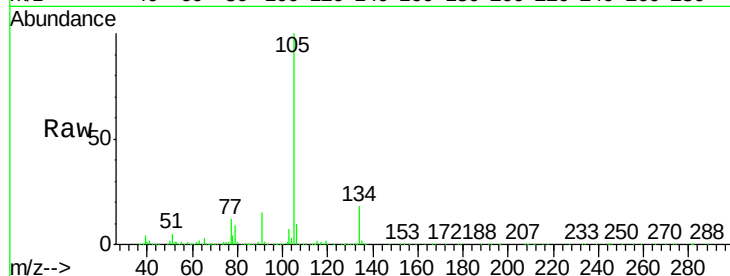
VSTDICCC050

Tot Ion:105 Resp: 1253679

Ion Ratio Lower Upper

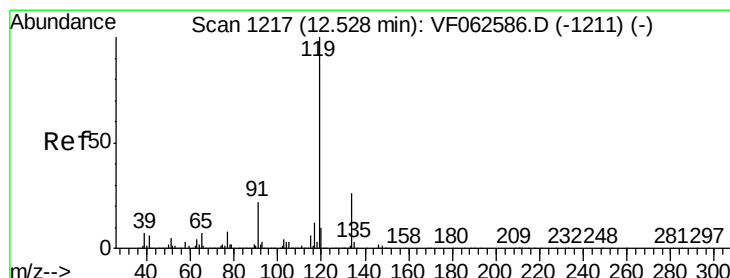
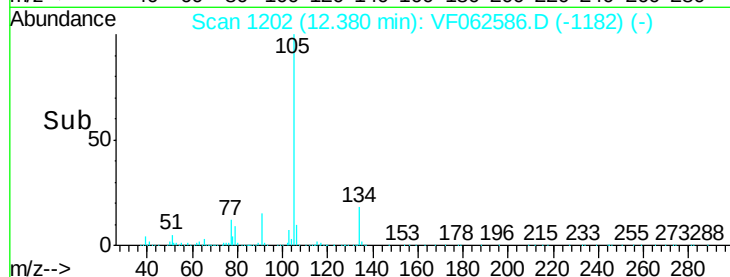
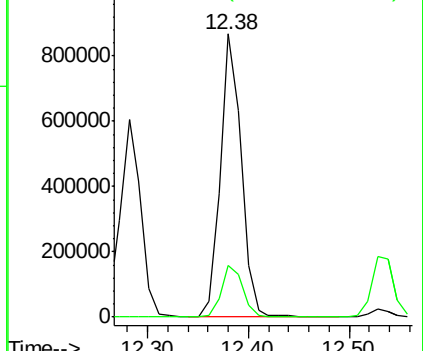
105 100

134 18.5 9.3 27.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 37.091 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

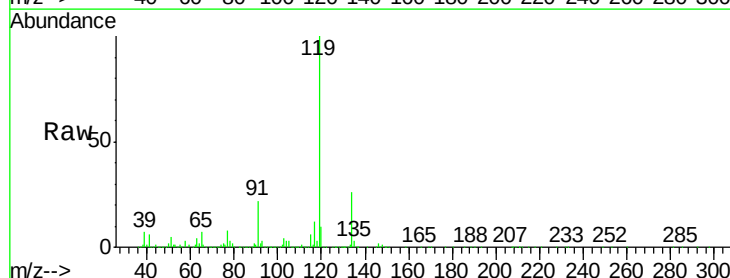
Tgt Ion:119 Resp: 1051980

Ion Ratio Lower Upper

119 100

134 26.0 13.0 39.0

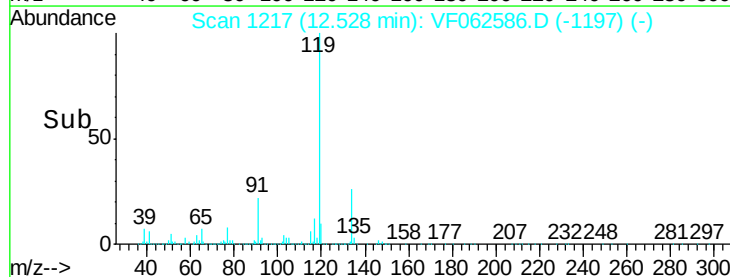
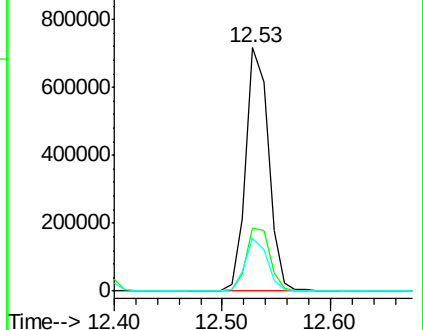
91 21.9 10.9 32.9



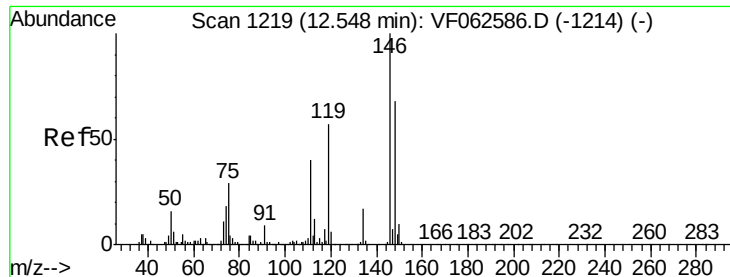
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0







#87

1,3-Dichlorobenzene

Concen: 41.637 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

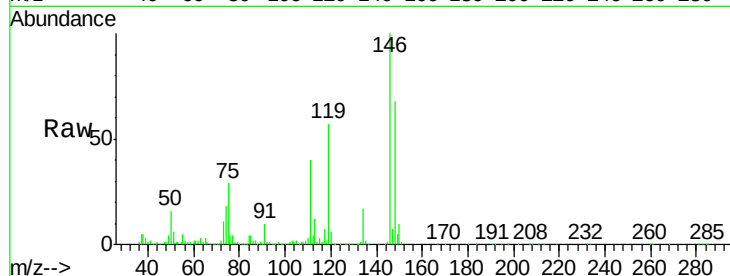
Tot Ion:146 Resp: 495739

Ion Ratio Lower Upper

146 100

111 40.1 20.1 60.2

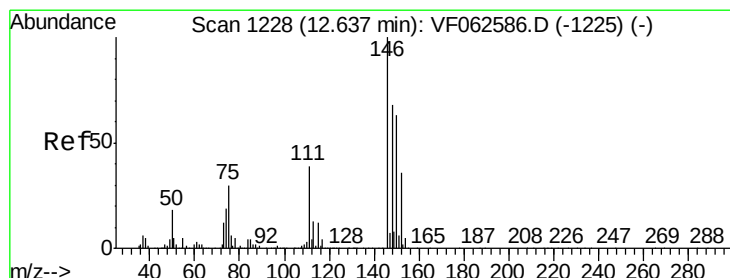
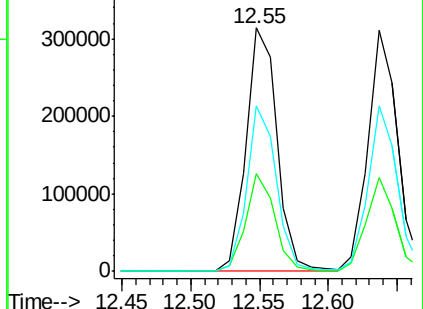
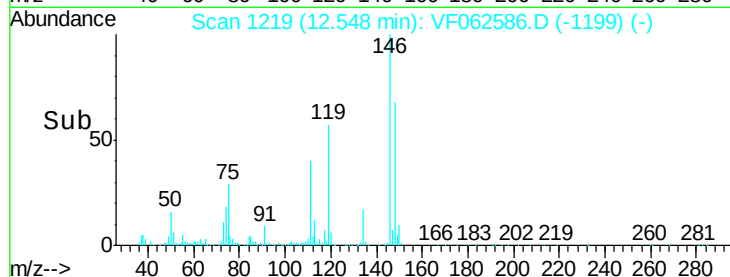
148 67.9 34.0 101.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 38.817 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

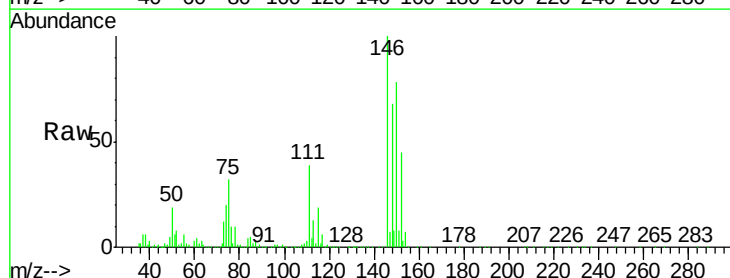
Tgt Ion:146 Resp: 468440

Ion Ratio Lower Upper

146 100

111 38.7 19.4 58.1

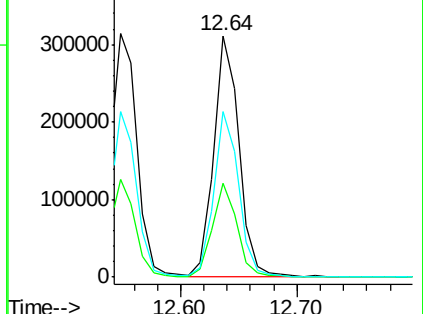
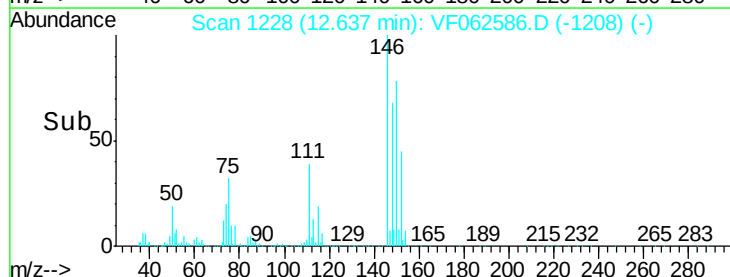
148 68.3 34.2 102.5

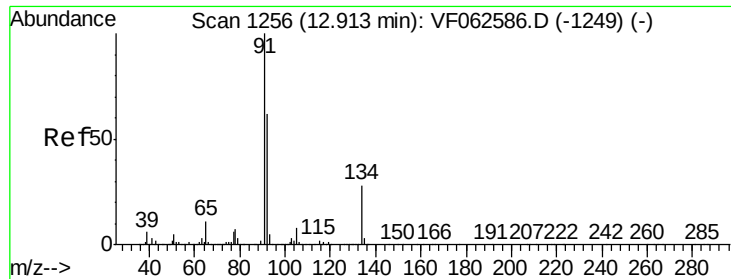


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 38.887 ug/l

RT: 12.91 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

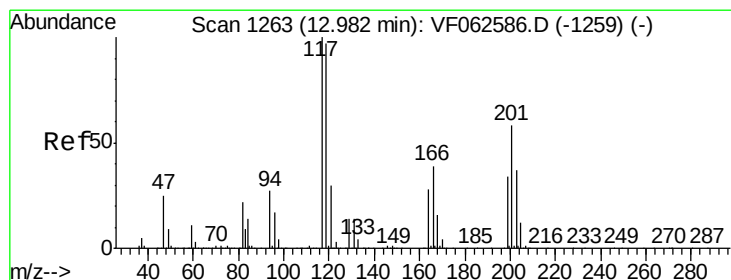
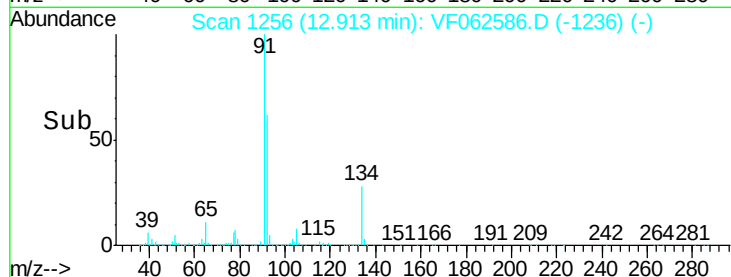
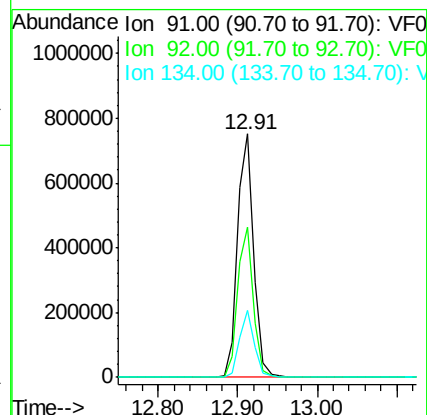
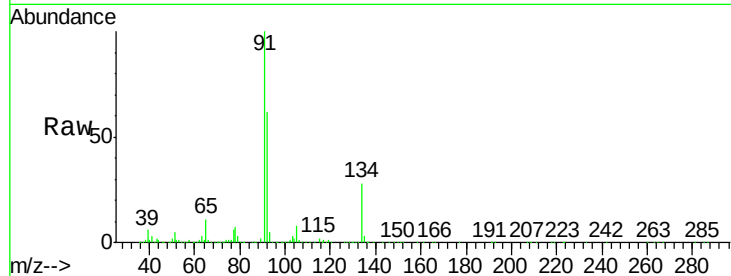
Tot Ion: 91 Resp: 1072574

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 61.9  | 30.9  | 92.8  |
| 134 | 27.7  | 13.9  | 41.6  |

91 100

92 61.9 30.9 92.8

134 27.7 13.9 41.6



#90

Hexachloroethane

Concen: 40.264 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VF062586.D

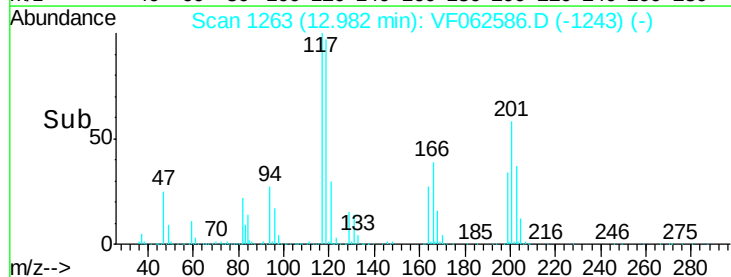
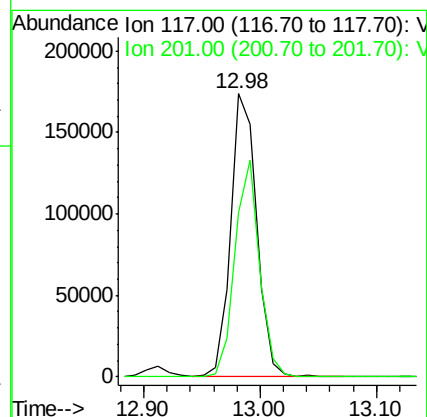
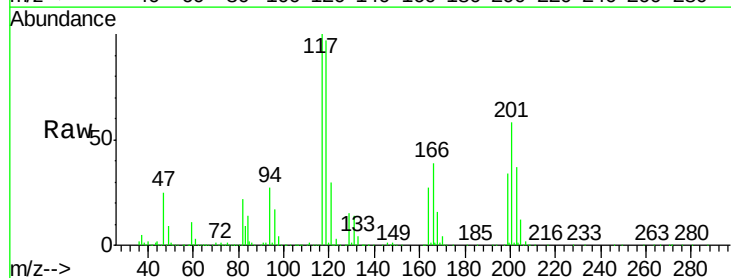
Acq: 14 May 2019 16:52

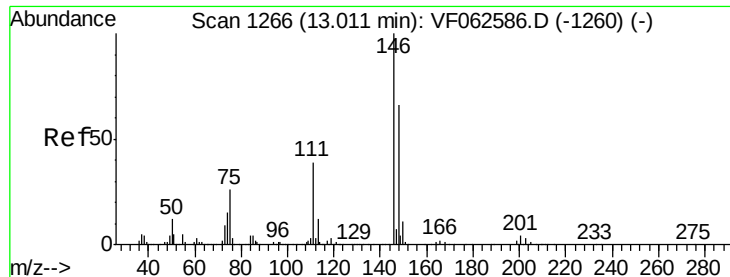
Tgt Ion: 117 Resp: 268261

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 201 | 59.4  | 29.7  | 89.1  |

117 100

201 59.4 29.7 89.1





#91

1,2-Dichlorobenzene

Concen: 39.826 ug/l

RT: 13.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

Instrument :

MSVOA\_F

ClientSampleId :

VSTDICCC050

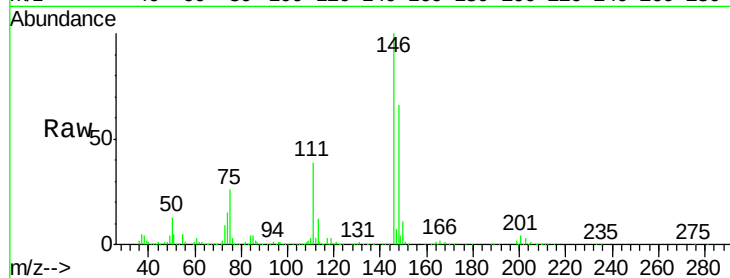
Tot Ion:146 Resp: 448984

Ion Ratio Lower Upper

146 100

111 38.8 19.4 58.2

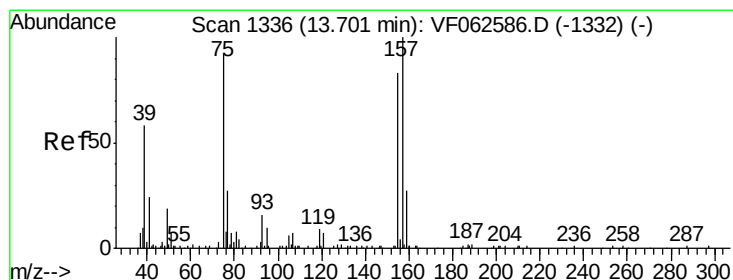
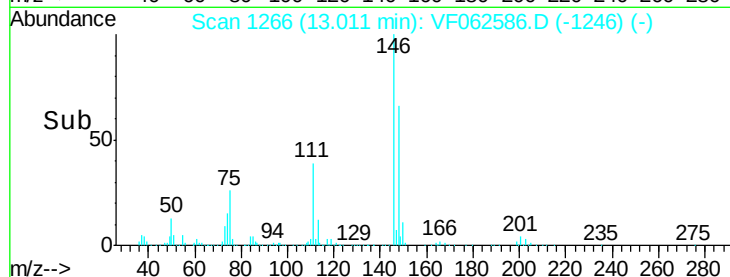
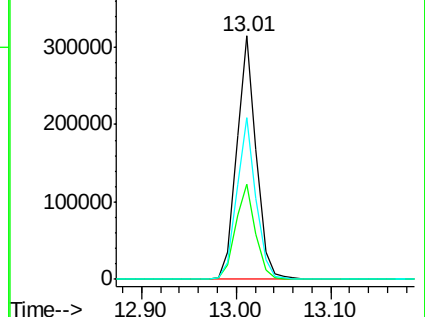
148 66.3 33.1 99.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 30.507 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VF062586.D

Acq: 14 May 2019 16:52

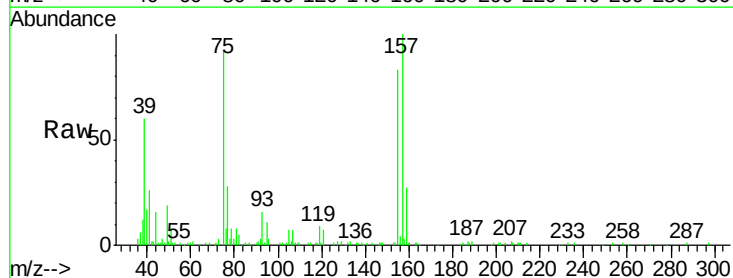
Tgt Ion: 75 Resp: 30720

Ion Ratio Lower Upper

75 100

155 89.6 44.8 134.4

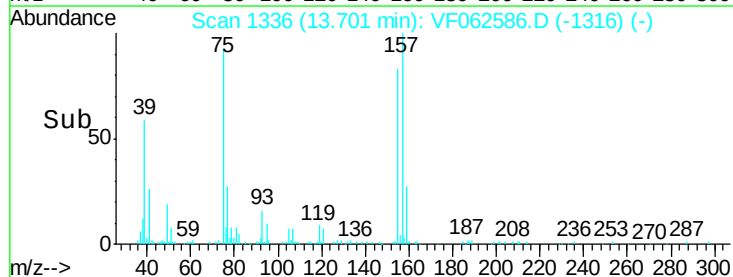
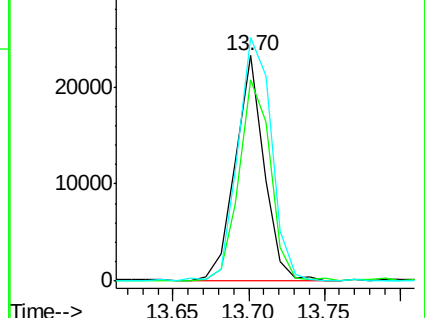
157 108.2 54.1 162.3

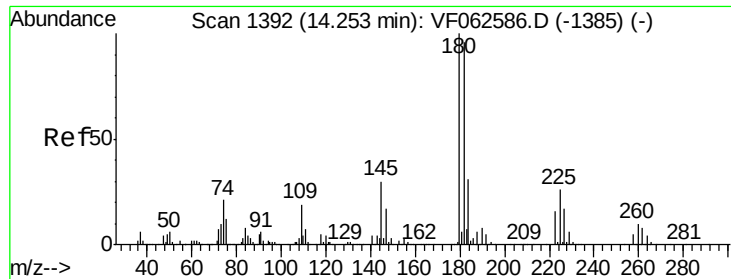


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

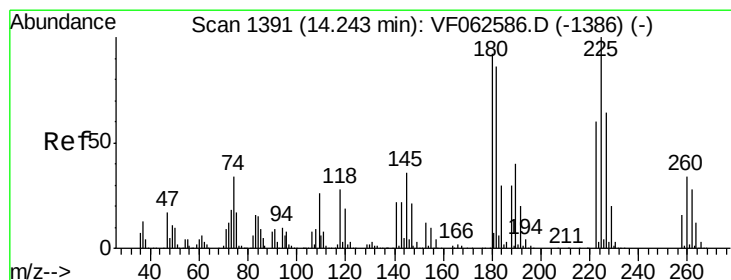
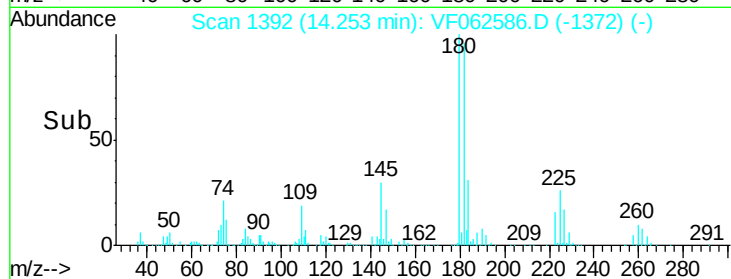
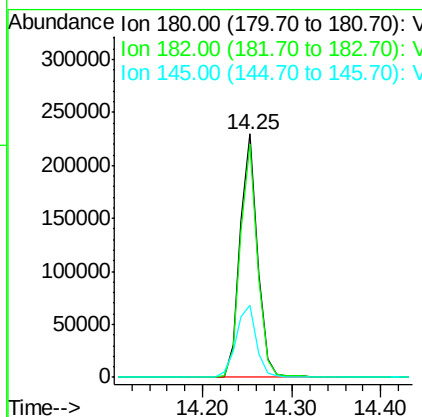
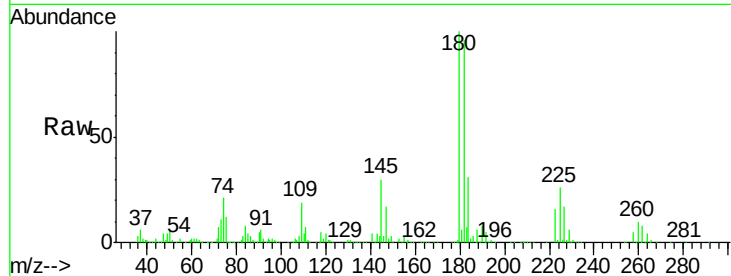




#93  
 1,2,4-Trichlorobenzene  
 Concen: 38.300 ug/l  
 RT: 14.25 min Scan# 1392  
 Delta R.T. 0.00 min  
 Lab File: VF062586.D  
 Acq: 14 May 2019 16:52

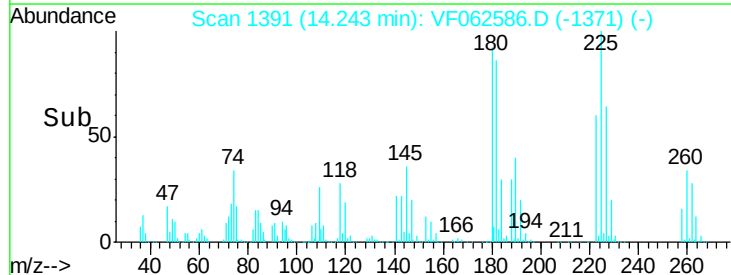
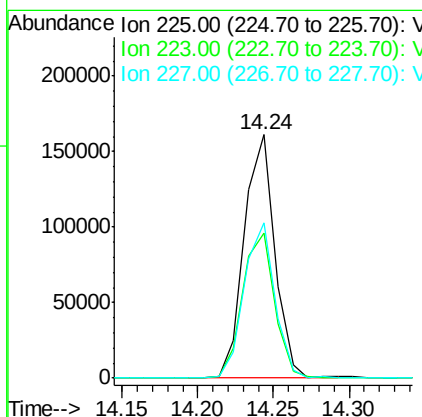
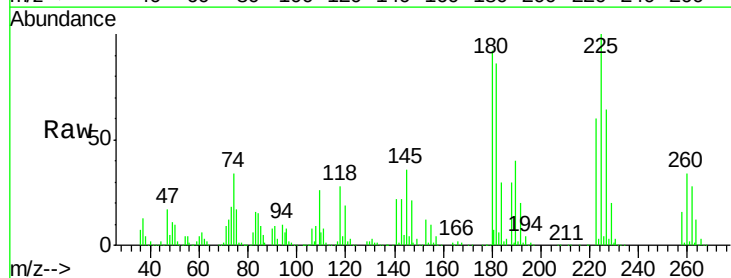
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDICCC050

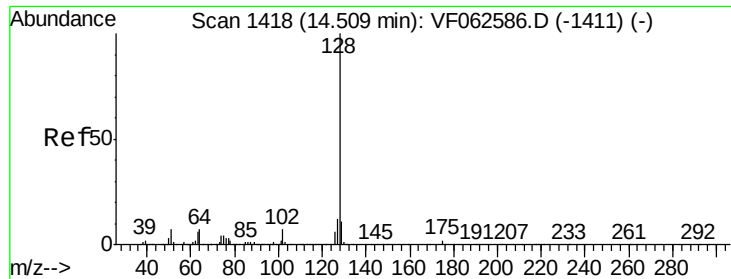
Tot Ion:180 Resp: 315116  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 47.9 143.8  
 145 29.6 14.8 44.4



#94  
 Hexachlorobutadiene  
 Concen: 42.456 ug/l  
 RT: 14.24 min Scan# 1391  
 Delta R.T. 0.00 min  
 Lab File: VF062586.D  
 Acq: 14 May 2019 16:52

Tgt Ion:225 Resp: 226717  
 Ion Ratio Lower Upper  
 225 100  
 223 59.8 29.9 89.7  
 227 63.9 31.9 95.9

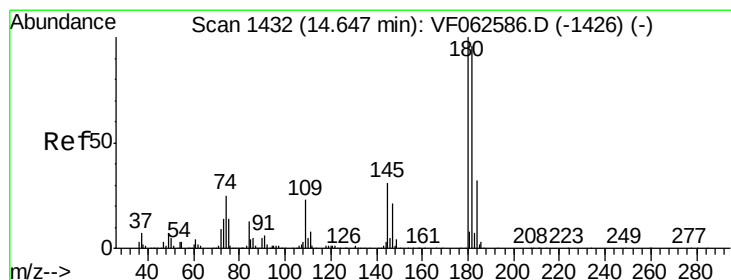
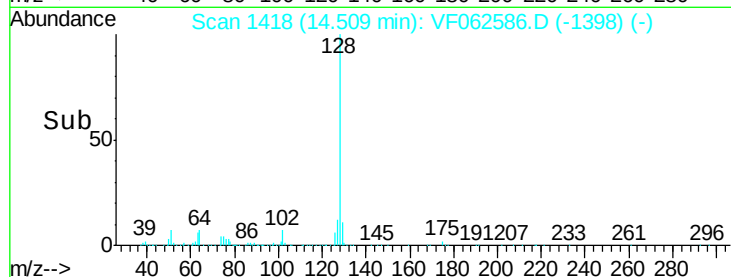
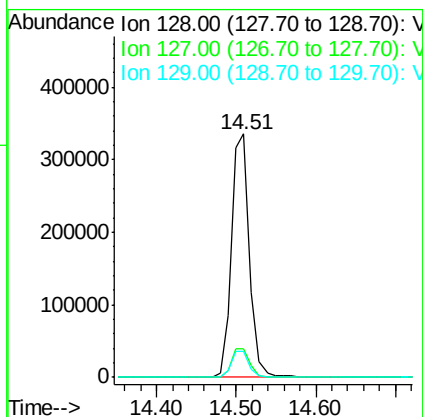
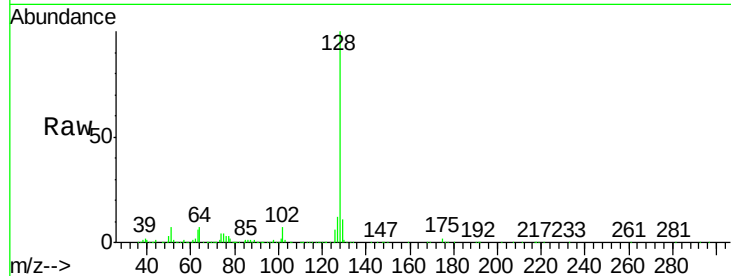




#95  
Naphthalene  
Concen: 39.574 ug/l  
RT: 14.51 min Scan# 1418  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Instrument :  
MSVOA\_F  
ClientSampleId :  
VSTDICCC050

Tot Ion:128 Resp: 533544  
Ion Ratio Lower Upper  
128 100  
127 11.9 9.5 14.3  
129 10.8 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 40.806 ug/l  
RT: 14.65 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VF062586.D  
Acq: 14 May 2019 16:52

Tgt Ion:180 Resp: 292908  
Ion Ratio Lower Upper  
180 100  
182 96.2 48.1 144.3  
145 31.1 15.6 46.7

