

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF070718\  
 Data File : VF059477.D  
 Acq On : 7 Jul 2018 5:44  
 Operator : VA/AP  
 Sample : VSTDICV050  
 Misc : 5.03g/5mL/MSVOA-F/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVV070718

Quant Time: Jul 07 06:38:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F070718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 06:35:36 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.00  | 168  | 283711   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.72  | 114  | 409004   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 9.88  | 117  | 416353   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.61 | 152  | 236733   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 4.98   | 65  | 225568   | 45.71 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.42%  |      |
| 35) Dibromofluoromethane    | 4.26   | 113 | 186932   | 47.63 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.26%  |      |
| 50) Toluene-d8              | 7.68   | 98  | 473053   | 51.24 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.48% |      |
| 62) 4-Bromofluorobenzene    | 11.48  | 95  | 237804   | 46.18 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.36%  |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 0.98 | 85  | 174597  | 43.694  | ug/l | 97     |
| 3) Chloromethane              | 1.07 | 50  | 97275   | 49.353  | ug/l | 98     |
| 4) Vinyl Chloride             | 1.14 | 62  | 105320  | 51.160  | ug/l | 93     |
| 5) Bromomethane               | 1.33 | 94  | 73866   | 46.768  | ug/l | 99     |
| 6) Chloroethane               | 1.42 | 64  | 52673   | 48.530  | ug/l | 97     |
| 7) Trichlorofluoromethane     | 1.48 | 101 | 48738   | 11.151  | ug/l | 98     |
| 8) Diethyl Ether              | 1.68 | 74  | 47235   | 51.544  | ug/l | 87     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.88 | 101 | 106863  | 45.123  | ug/l | 98     |
| 10) Methyl Iodide             | 1.95 | 142 | 211392  | 47.943  | ug/l | 92     |
| 11) Tert butyl alcohol        | 2.67 | 59  | 51369   | 228.509 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 1.84 | 96  | 100714  | 46.973  | ug/l | 85     |
| 13) Acrolein                  | 2.08 | 56  | 34446   | 197.754 | ug/l | 95     |
| 14) Allyl chloride            | 2.17 | 41  | 184044  | 49.434  | ug/l | # 76   |
| 15) Acrylonitrile             | 3.04 | 53  | 109890  | 267.714 | ug/l | 99     |
| 16) Acetone                   | 2.31 | 43  | 162516  | 220.182 | ug/l | 96     |
| 17) Carbon Disulfide          | 1.86 | 76  | 280992  | 49.818  | ug/l | 100    |
| 18) Methyl Acetate            | 2.43 | 43  | 73640   | 42.971  | ug/l | 95     |
| 19) Methyl tert-butyl Ether   | 2.52 | 73  | 311957  | 44.652  | ug/l | 99     |
| 20) Methylene Chloride        | 2.25 | 84  | 46881   | 19.687  | ug/l | 96     |
| 21) trans-1,2-Dichloroethene  | 2.39 | 96  | 105962  | 46.435  | ug/l | 91     |
| 22) Diisopropyl ether         | 2.89 | 45  | 382490  | 49.591  | ug/l | 95     |
| 23) Vinyl Acetate             | 3.30 | 43  | 1144050 | 255.495 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 2.97 | 63  | 242705  | 47.060  | ug/l | 99     |
| 25) 2-Butanone                | 4.47 | 43  | 261512  | 260.031 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 3.72 | 77  | 129887  | 43.691  | ug/l | 91     |
| 27) cis-1,2-Dichloroethene    | 3.58 | 96  | 176444  | 62.916  | ug/l | 88     |
| 28) Bromochloromethane        | 3.85 | 49  | 106860  | 49.923  | ug/l | 98     |
| 29) Tetrahydrofuran           | 4.22 | 42  | 117547  | 249.346 | ug/l | 97     |
| 30) Chloroform                | 4.00 | 83  | 329282  | 45.121  | ug/l | 92     |
| 31) Cyclohexane               | 3.83 | 56  | 163600  | 54.701  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 4.24 | 97  | 250469  | 44.627  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 4.42 | 75  | 216514  | 50.120  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.26 | 43  | 122789  | 48.436  | ug/l | 92     |
| 38) Carbon Tetrachloride      | 4.13 | 117 | 300816  | 48.725  | ug/l | 98     |

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 MSVOA\_F  
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Quant Time: Jul 07 06:38:30 2018  
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 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 06:35:36 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 5.59  | 83   | 196232   | 54.084   | ug/l   | 98       |
| 40) Benzene                    | 4.77  | 78   | 424574   | 50.153   | ug/l   | 95       |
| 41) Methacrylonitrile          | 4.89  | 41   | 62086    | 53.314   | ug/l   | 93       |
| 42) 1,2-Dichloroethane         | 5.07  | 62   | 265998   | 43.366   | ug/l   | 92       |
| 43) Isopropyl Acetate          | 7.07  | 43   | 157508   | 54.273   | ug/l # | 95       |
| 44) Trichloroethene            | 5.64  | 130  | 148845   | 47.664   | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 6.36  | 63   | 117882   | 48.498   | ug/l   | 96       |
| 46) Dibromomethane             | 6.22  | 93   | 107641   | 48.308   | ug/l   | 96       |
| 47) Bromodichloromethane       | 6.51  | 83   | 268034   | 47.274   | ug/l   | 90       |
| 48) Methyl methacrylate        | 6.84  | 41   | 107873   | 52.090   | ug/l   | 92       |
| 49) 1,4-Dioxane                | 6.83  | 88   | 12014    | 1278.226 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 8.38  | 43   | 520848   | 240.865  | ug/l   | 98       |
| 52) Toluene                    | 7.74  | 92   | 298302   | 47.181   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 8.40  | 75   | 215149   | 43.826   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 7.42  | 75   | 238580   | 48.687   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 8.60  | 97   | 114571   | 46.448   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 8.73  | 69   | 145714   | 52.219   | ug/l   | 94       |
| 57) 1,3-Dichloropropane        | 8.97  | 76   | 202283   | 48.008   | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 7.74  | 63   | 58841    | 220.183  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.60  | 43   | 422678   | 262.983  | ug/l   | 97       |
| 60) Dibromochloromethane       | 8.83  | 129  | 193785   | 47.152   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 9.09  | 107  | 142650   | 47.065   | ug/l   | 100      |
| 64) Tetrachloroethene          | 8.27  | 164  | 175068   | 50.202   | ug/l   | 97       |
| 65) Chlorobenzene              | 9.90  | 112  | 392251   | 48.345   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.03 | 131  | 174516   | 46.687   | ug/l   | 94       |
| 67) Ethyl Benzene              | 10.00 | 91   | 692200   | 49.067   | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.24 | 106  | 491412   | 98.845   | ug/l   | 94       |
| 69) o-Xylene                   | 10.80 | 106  | 264334   | 49.397   | ug/l   | 93       |
| 70) Styrene                    | 10.87 | 104  | 402886   | 48.311   | ug/l   | 97       |
| 71) Bromoform                  | 10.86 | 173  | 121956   | 47.367   | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.20 | 105  | 772127   | 53.658   | ug/l   | 98       |
| 74) N-amyl acetate             | 11.44 | 43   | 264907   | 60.306   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.77 | 83   | 167802   | 51.304   | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 11.86 | 75   | 133892   | 50.279   | ug/l   | 95       |
| 77) Bromobenzene               | 11.57 | 156  | 201830   | 50.692   | ug/l   | 98       |
| 78) n-propylbenzene            | 11.67 | 91   | 879279   | 50.886   | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 11.79 | 91   | 552324   | 51.662   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.88 | 105  | 685945   | 53.794   | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-buten | 11.93 | 75   | 70966    | 51.371   | ug/l   | 90       |
| 82) 4-Chlorotoluene            | 11.96 | 91   | 575883   | 50.825   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.19 | 119  | 650314   | 52.438   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 12.27 | 105  | 690434   | 51.490   | ug/l   | 98       |
| 85) sec-Butylbenzene           | 12.37 | 105  | 857320   | 51.221   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 12.52 | 119  | 760061   | 53.095   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.54 | 146  | 364391   | 48.309   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.62 | 146  | 362063   | 49.296   | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.90 | 91   | 715517   | 51.304   | ug/l   | 99       |
| 90) Hexachloroethane           | 12.98 | 117  | 183608   | 49.364   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.00 | 146  | 367416   | 49.123   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 41709    | 50.929   | ug/l   | 93       |

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Operator : VA/AP  
Sample : VSTDICV050  
Misc : 5.03g/5mL/MSVOA-F/SOIL  
ALS Vial : 34 Sample Multiplier: 1

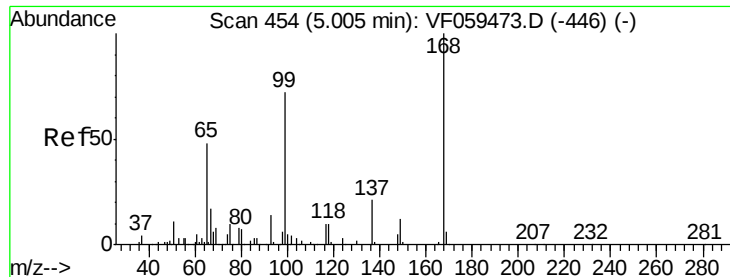
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

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Quant Title : SW846 8260  
QLast Update : Sat Jul 07 06:35:36 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.25 | 180  | 289989   | 52.191 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.24 | 225  | 172650   | 51.287 | ug/l  | 98       |
| 95) Naphthalene            | 14.51 | 128  | 638105   | 57.787 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.64 | 180  | 286516   | 53.158 | ug/l  | 96       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.00 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

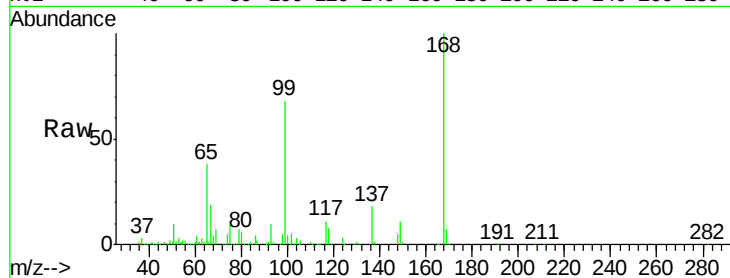
ICVVF070718

Tgt Ion:168 Resp: 283711

Ion Ratio Lower Upper

168 100

99 68.0 57.7 86.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.00

100000

80000

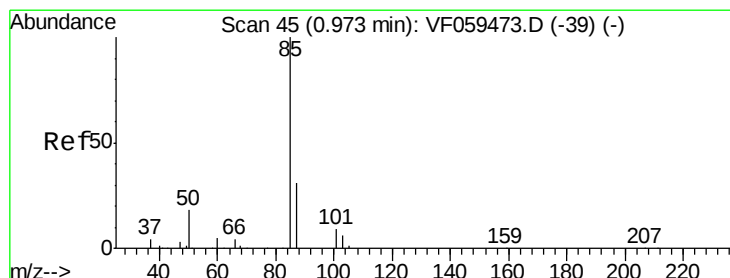
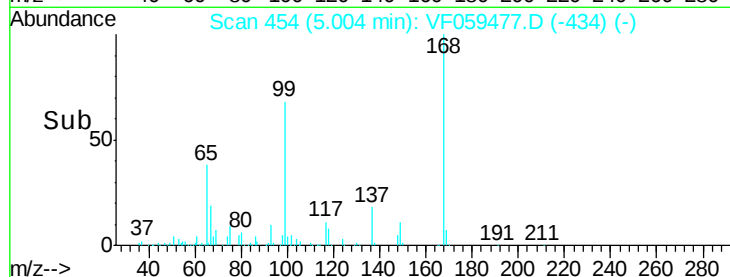
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 43.694 ug/l

RT: 0.98 min Scan# 46

Delta R.T. 0.01 min

Lab File: VF059477.D

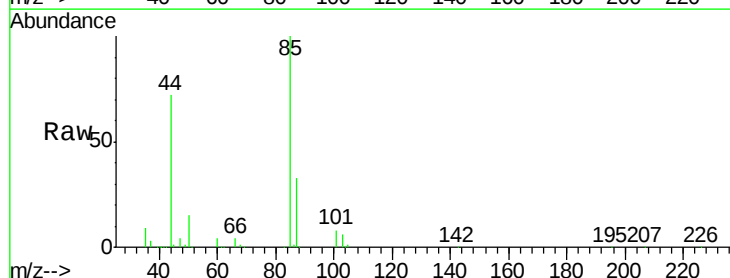
Acq: 7 Jul 2018 5:44

Tgt Ion: 85 Resp: 174597

Ion Ratio Lower Upper

85 100

87 33.0 15.7 47.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

50000

40000

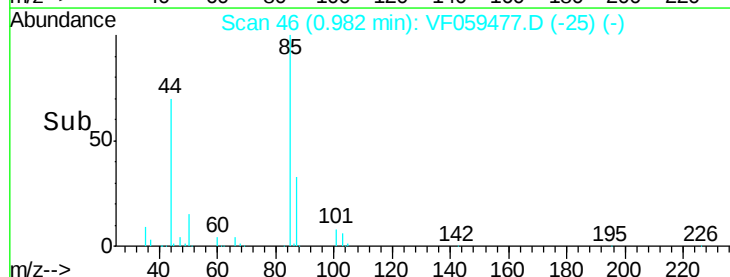
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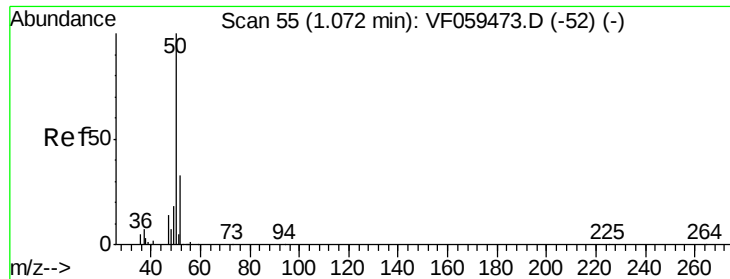
20000

10000

0

Time-->





#3

Chloromethane

Concen: 49.353 ug/l

RT: 1.07 min Scan# 55

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

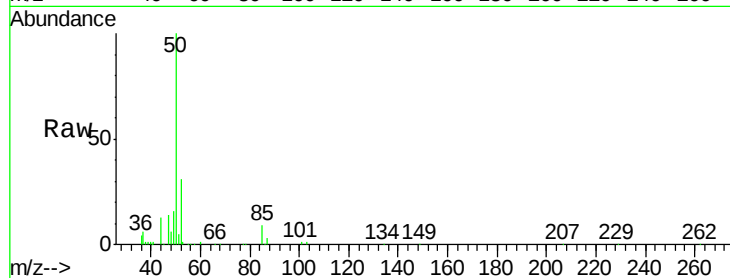
ICVVF070718

Tgt Ion: 50 Resp: 97275

Ion Ratio Lower Upper

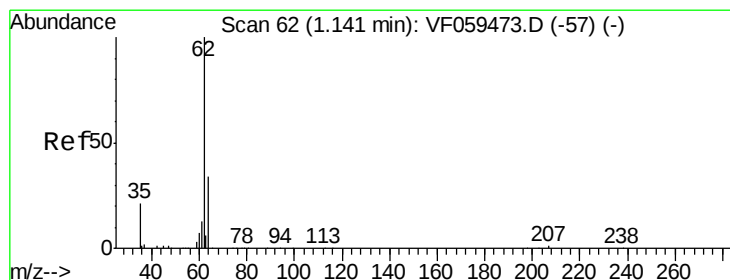
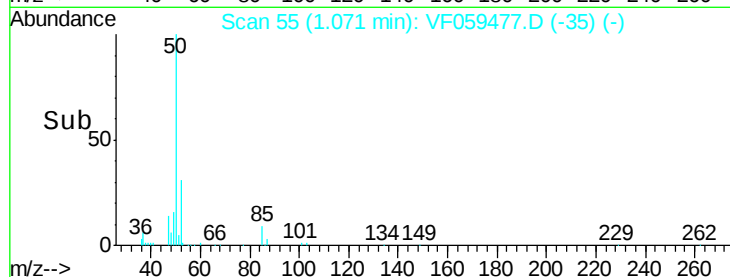
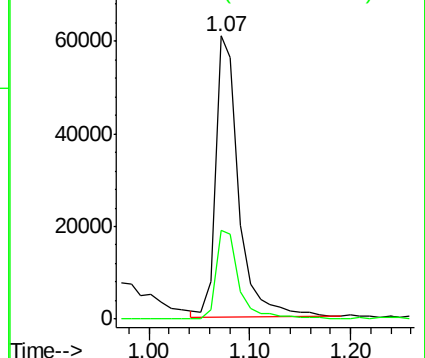
50 100

52 31.4 25.9 38.9



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 51.160 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.00 min

Lab File: VF059477.D

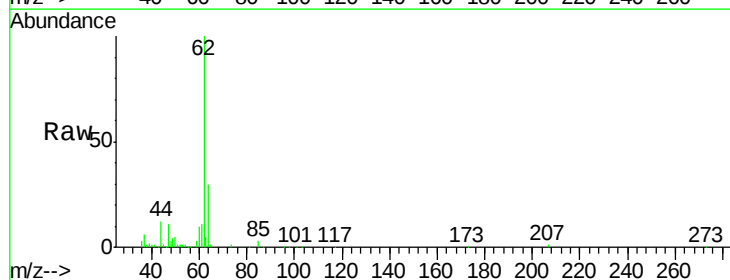
Acq: 7 Jul 2018 5:44

Tgt Ion: 62 Resp: 105320

Ion Ratio Lower Upper

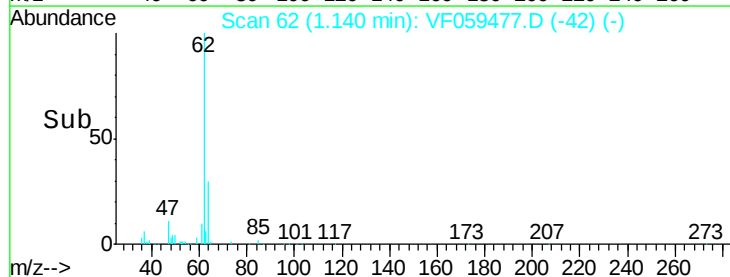
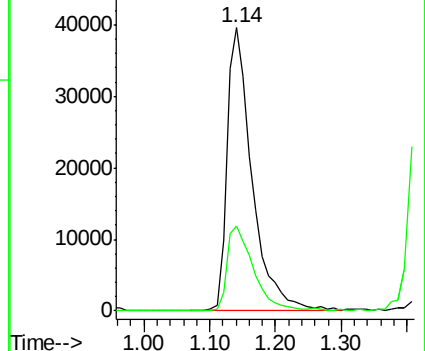
62 100

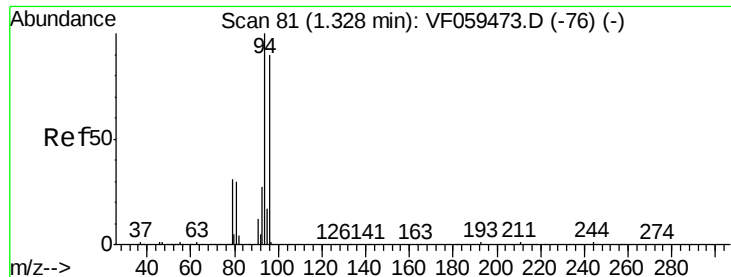
64 30.0 27.3 40.9



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 46.768 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

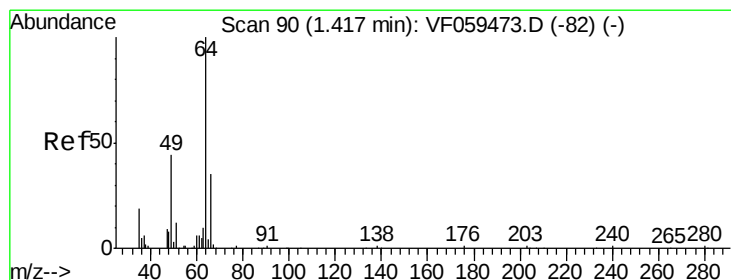
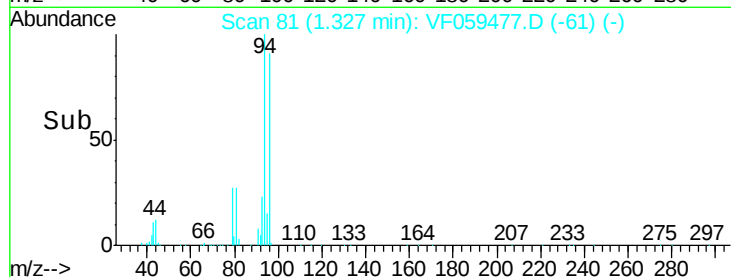
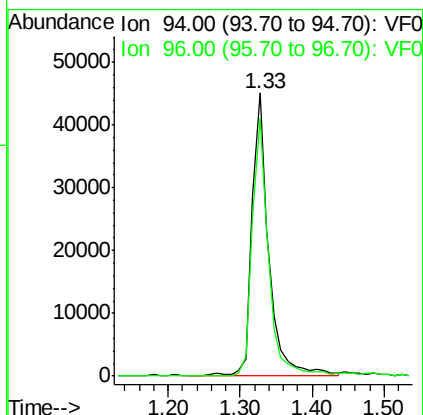
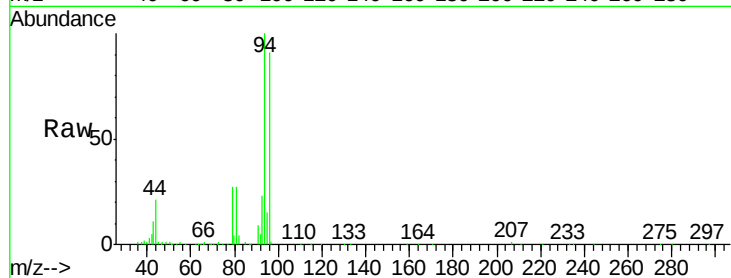
ICVVF070718

Tgt Ion: 94 Resp: 73866

Ion Ratio Lower Upper

94 100

96 91.1 72.0 108.0



#6

Chloroethane

Concen: 48.530 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.00 min

Lab File: VF059477.D

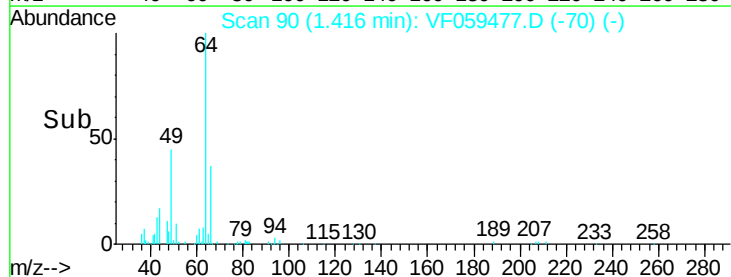
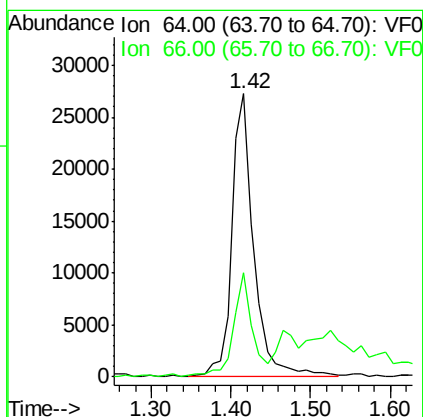
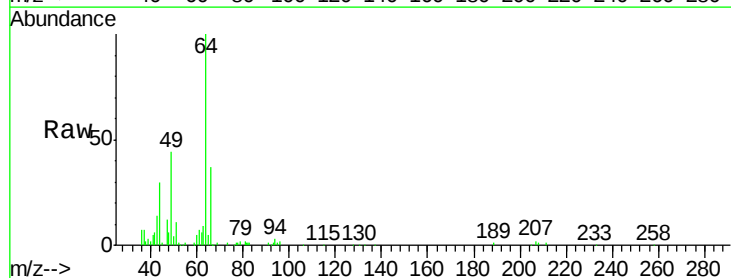
Acq: 7 Jul 2018 5:44

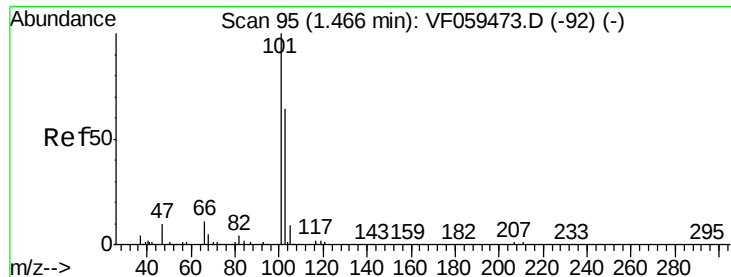
Tgt Ion: 64 Resp: 52673

Ion Ratio Lower Upper

64 100

66 37.1 28.1 42.1





#7

Trichlorofluoromethane

Concen: 11.151 ug/l

RT: 1.48 min Scan# 96

Delta R.T. 0.01 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

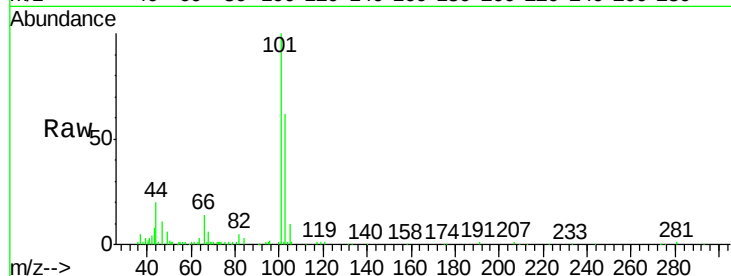
ICVVF070718

Tgt Ion:101 Resp: 48738

Ion Ratio Lower Upper

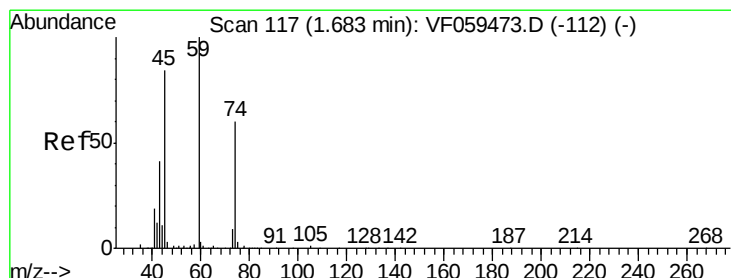
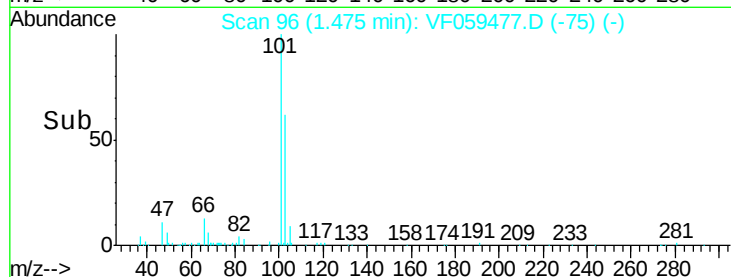
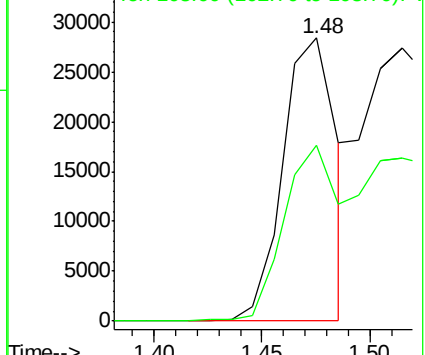
101 100

103 62.3 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 51.544 ug/l

RT: 1.68 min Scan# 117

Delta R.T. -0.00 min

Lab File: VF059477.D

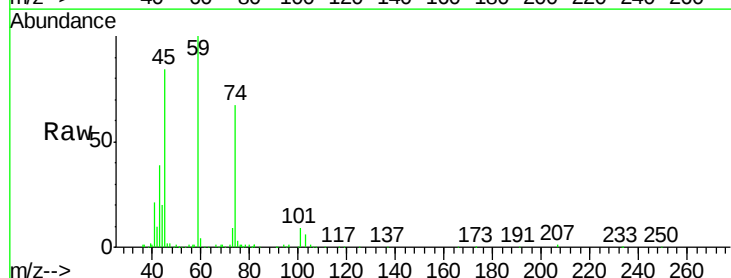
Acq: 7 Jul 2018 5:44

Tgt Ion: 74 Resp: 47235

Ion Ratio Lower Upper

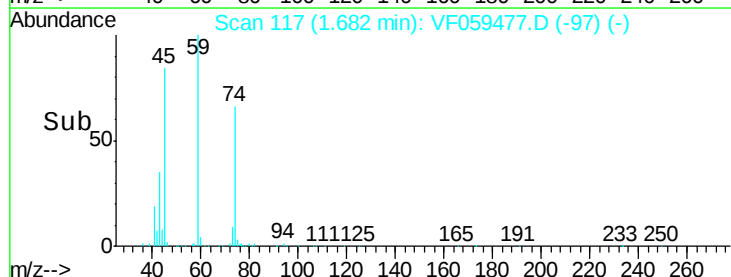
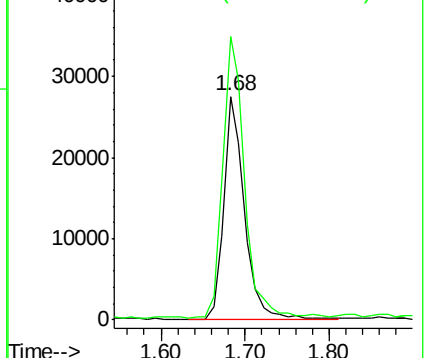
74 100

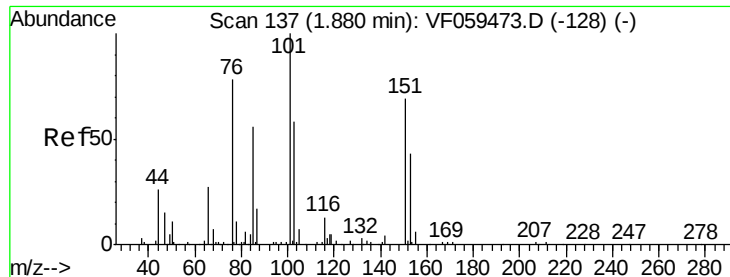
45 126.5 71.1 213.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.123 ug/l

RT: 1.88 min Scan# 137

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

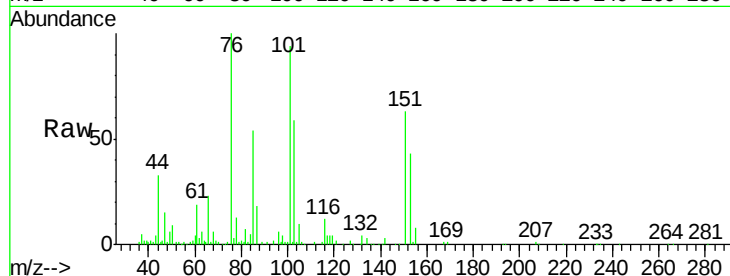
Tgt Ion:101 Resp: 106863

Ion Ratio Lower Upper

101 100

85 57.1 43.8 65.8

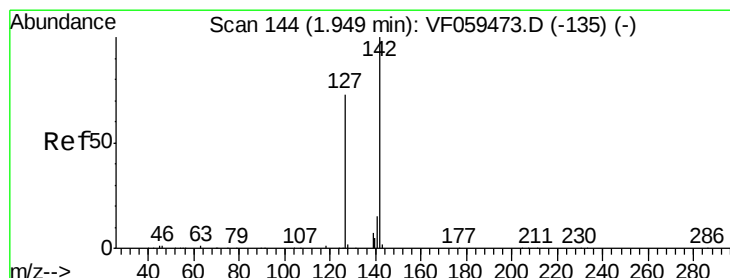
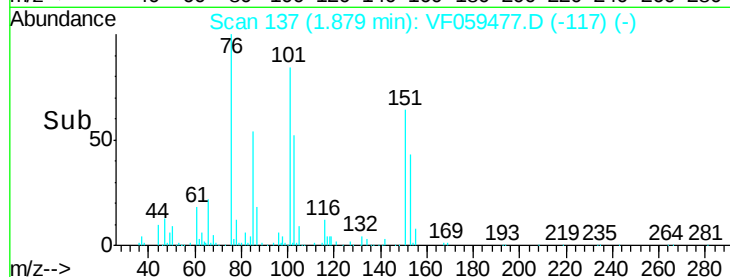
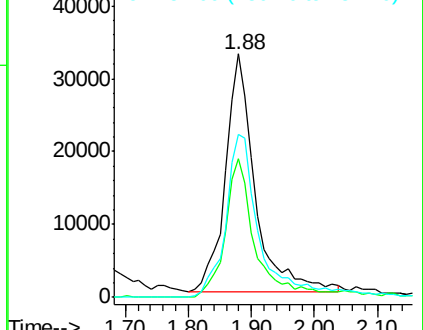
151 67.2 54.2 81.4



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: 47.943 ug/l

RT: 1.95 min Scan# 144

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

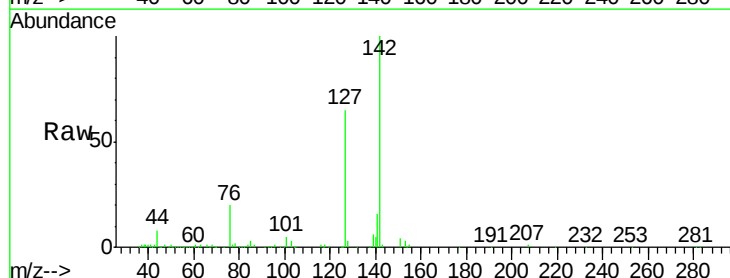
Tgt Ion:142 Resp: 211392

Ion Ratio Lower Upper

142 100

127 65.2 58.2 87.2

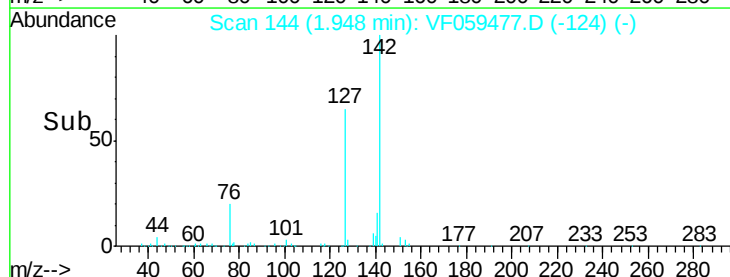
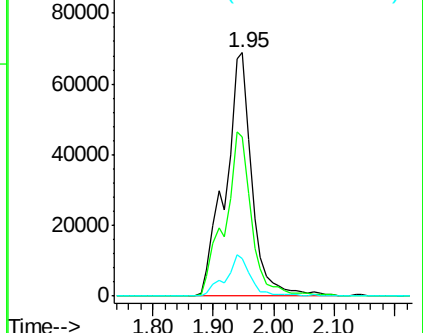
141 15.6 11.7 17.5

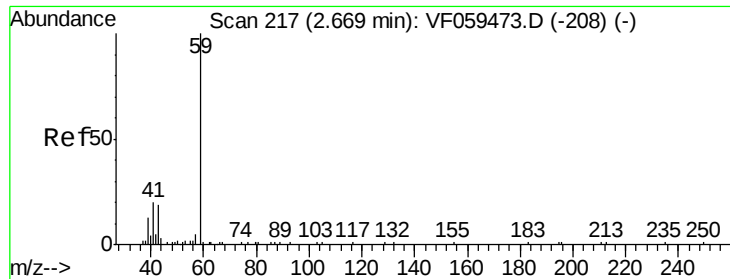


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

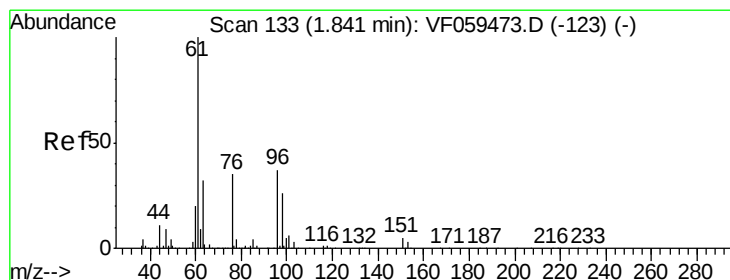
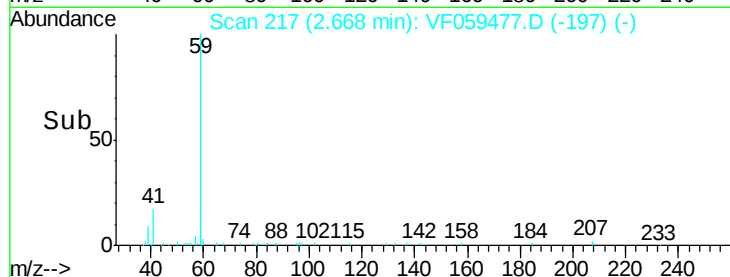
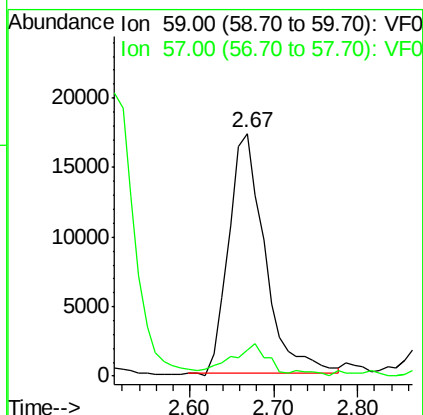
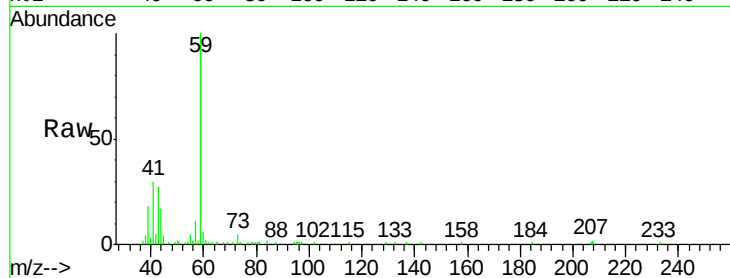




#11  
Tert butyl alcohol  
Concen: 228.509 ug/l  
RT: 2.67 min Scan# 217  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

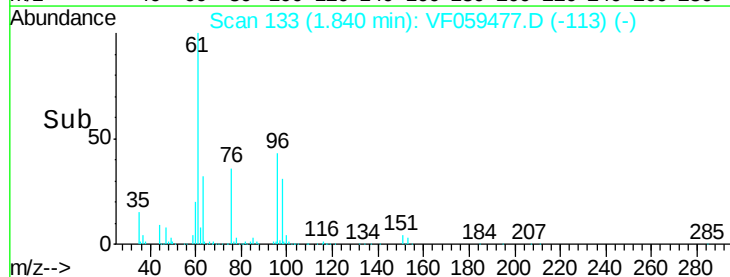
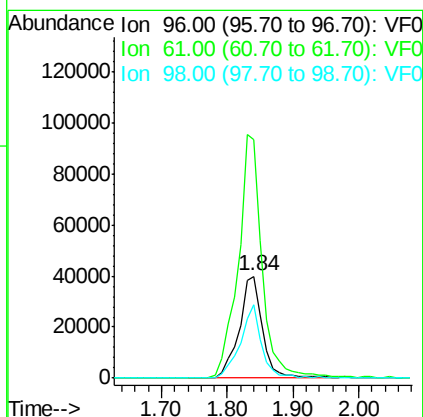
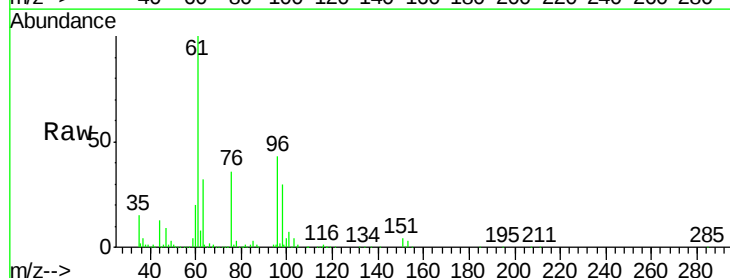
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

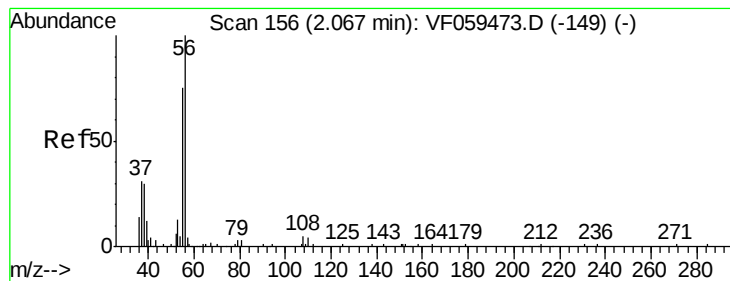
Tgt Ion: 59 Resp: 51369  
Ion Ratio Lower Upper  
59 100  
57 10.7 7.8 11.8



#12  
1,1-Dichloroethene  
Concen: 46.973 ug/l  
RT: 1.84 min Scan# 133  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Tgt Ion: 96 Resp: 100714  
Ion Ratio Lower Upper  
96 100  
61 234.1 214.4 321.6  
98 71.4 55.6 83.4





#13

Acrolein

Concen: 197.754 ug/l

RT: 2.08 min Scan# 157

Delta R.T. 0.01 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

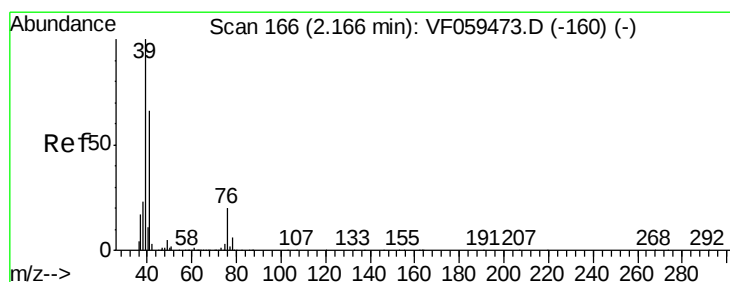
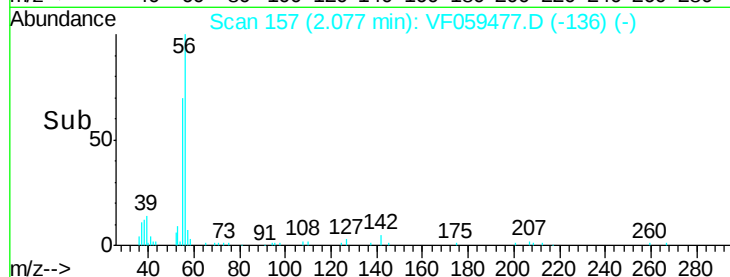
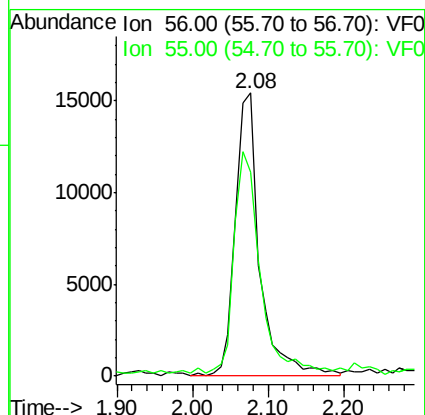
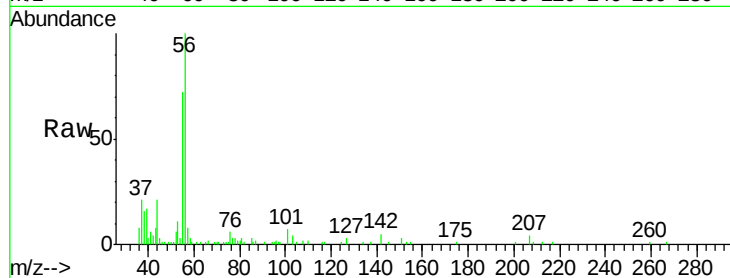
ICVVF070718

Tgt Ion: 56 Resp: 34446

Ion Ratio Lower Upper

56 100

55 72.2 61.2 91.8



#14

Allyl chloride

Concen: 49.434 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

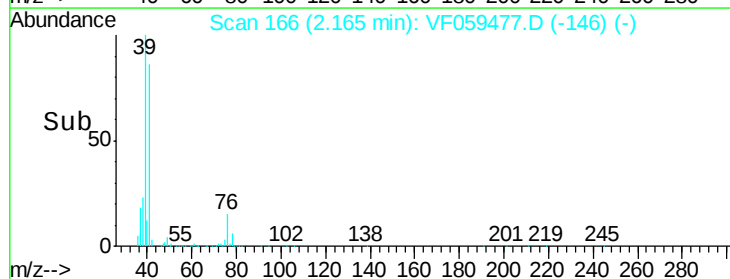
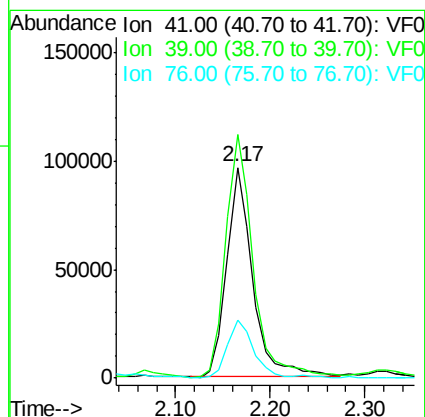
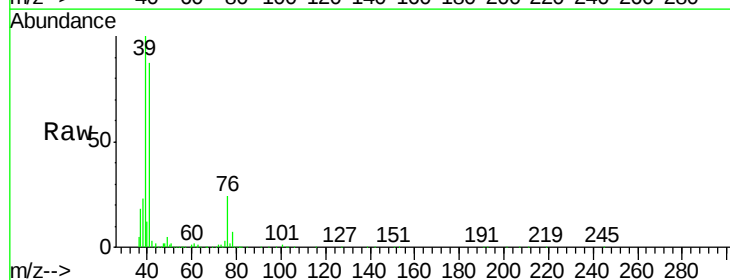
Tgt Ion: 41 Resp: 184044

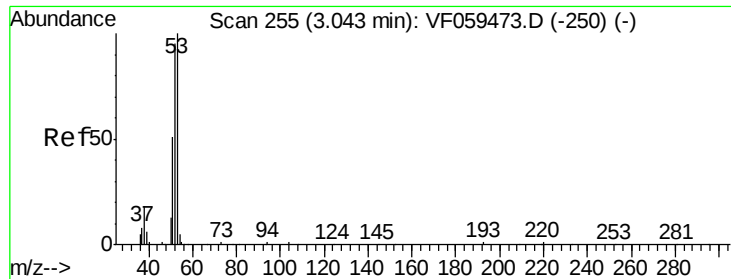
Ion Ratio Lower Upper

41 100

39 115.6 120.7 181.1#

76 27.4 24.0 36.0





#15

Acrylonitrile

Concen: 267.714 ug/l

RT: 3.04 min Scan# 255

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

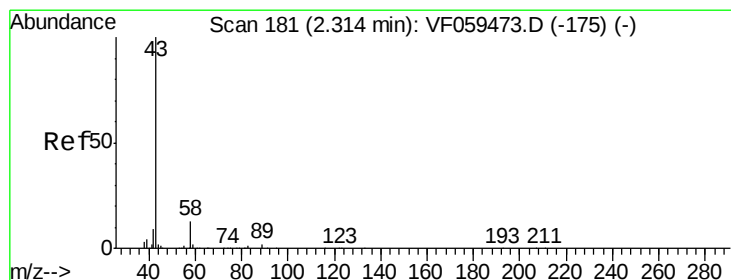
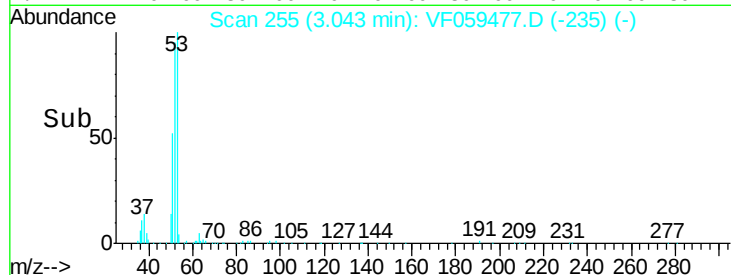
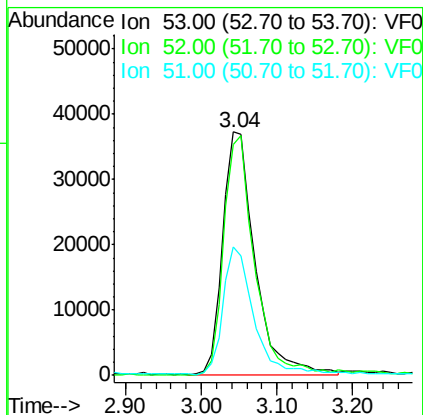
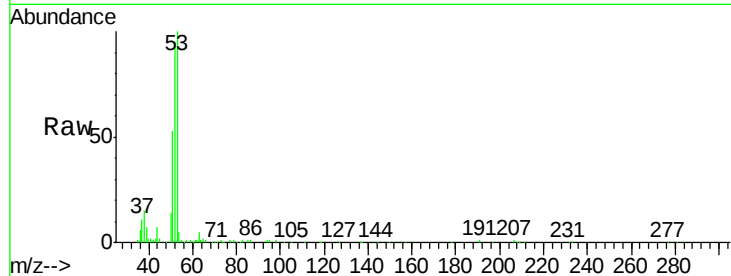
Tgt Ion: 53 Resp: 109890

Ion Ratio Lower Upper

53 100

52 94.6 76.8 115.2

51 52.9 41.8 62.8



#16

Acetone

Concen: 220.182 ug/l

RT: 2.31 min Scan# 181

Delta R.T. -0.00 min

Lab File: VF059477.D

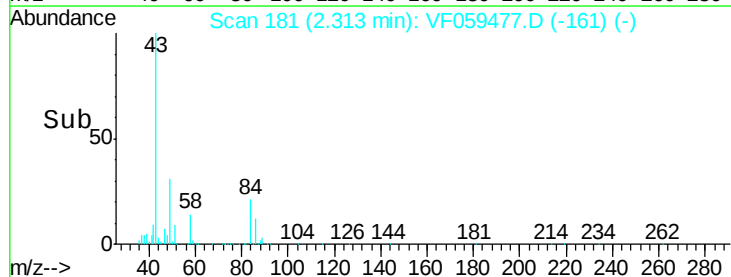
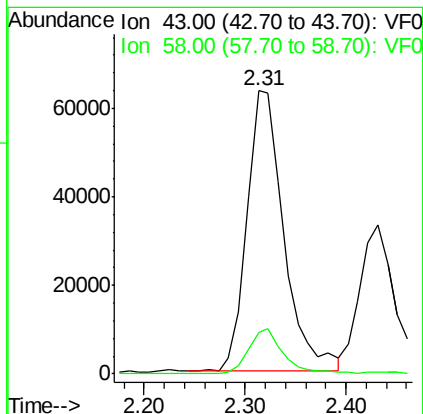
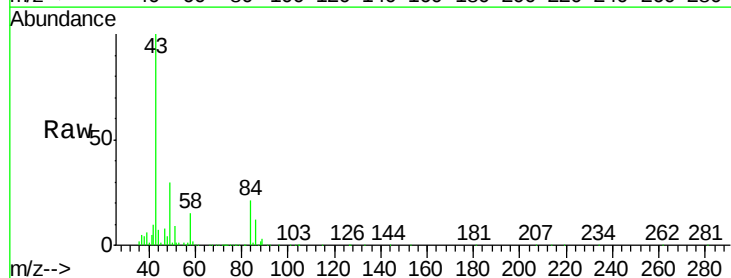
Acq: 7 Jul 2018 5:44

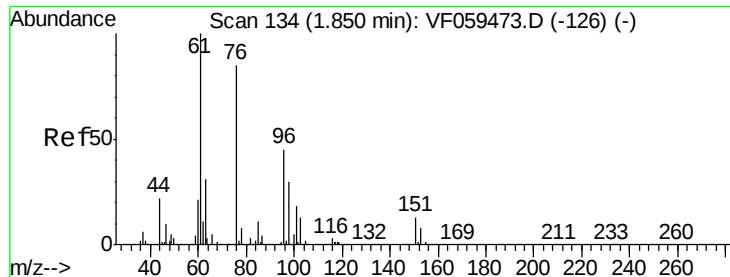
Tgt Ion: 43 Resp: 162516

Ion Ratio Lower Upper

43 100

58 14.9 10.5 15.7





#17

Carbon Disulfide

Concen: 49.818 ug/l

RT: 1.86 min Scan# 135

Delta R.T. 0.01 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

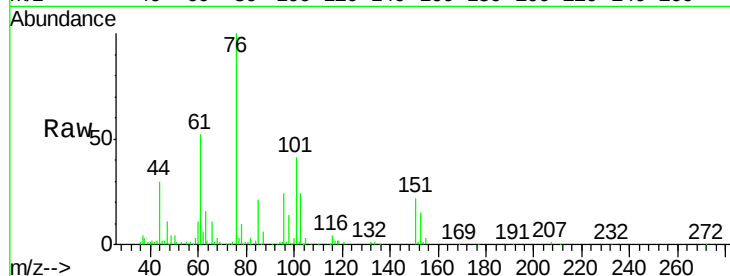
ICVVF070718

Tgt Ion: 76 Resp: 280992

Ion Ratio Lower Upper

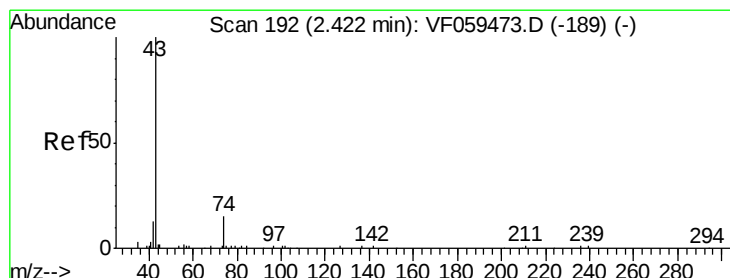
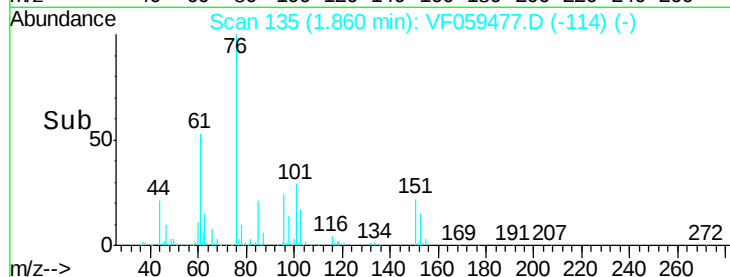
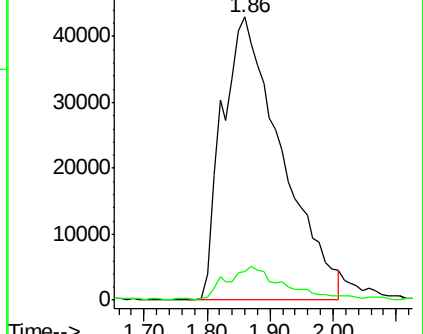
76 100

78 10.0 8.0 12.0



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 42.971 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF059477.D

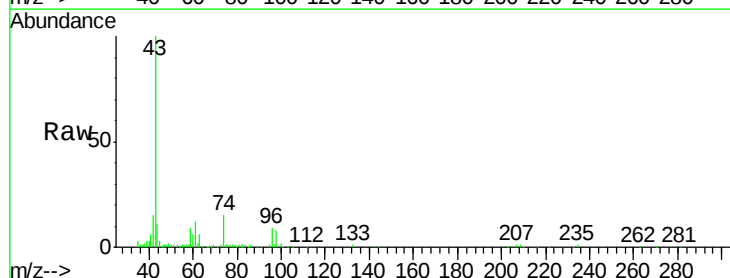
Acq: 7 Jul 2018 5:44

Tgt Ion: 43 Resp: 73640

Ion Ratio Lower Upper

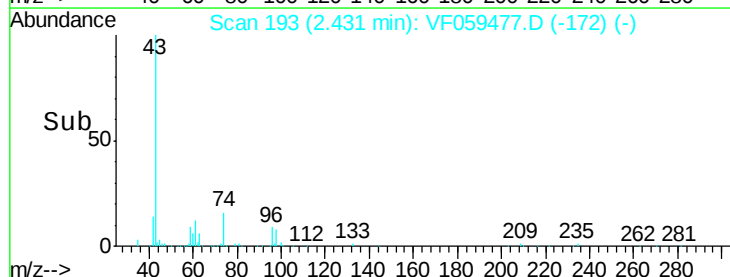
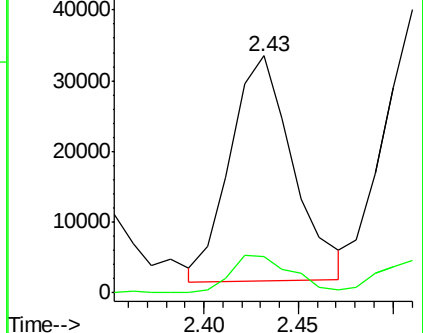
43 100

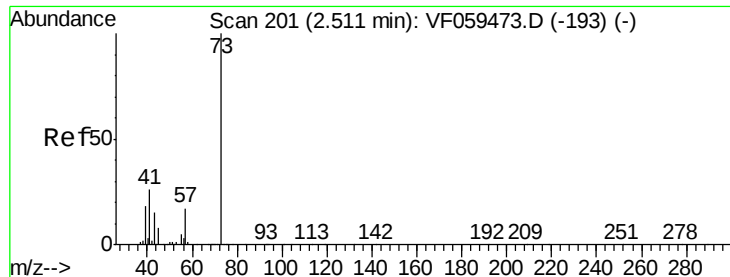
74 15.5 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



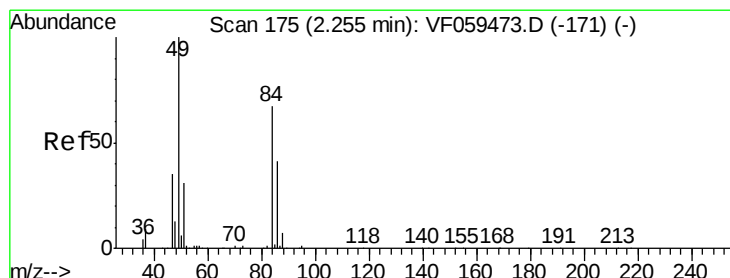
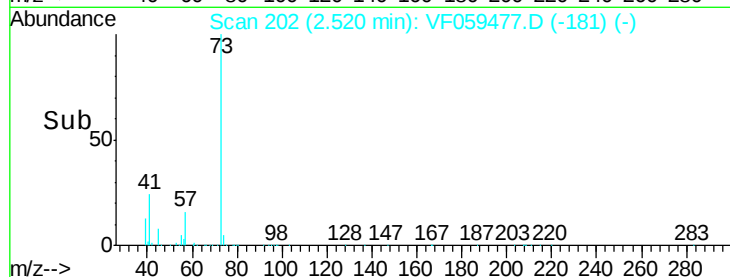
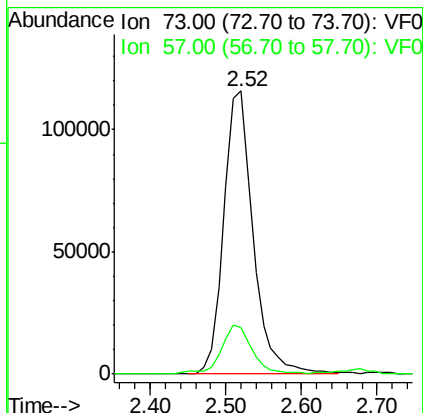
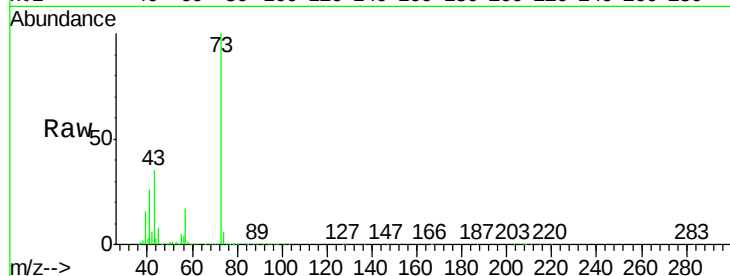


#19

Methyl tert-butyl Ether  
Concen: 44.652 ug/l  
RT: 2.52 min Scan# 202  
Delta R.T. 0.01 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

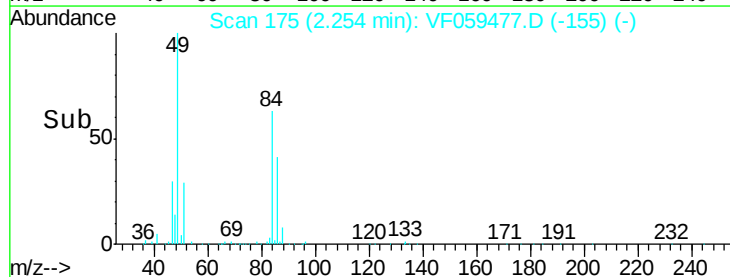
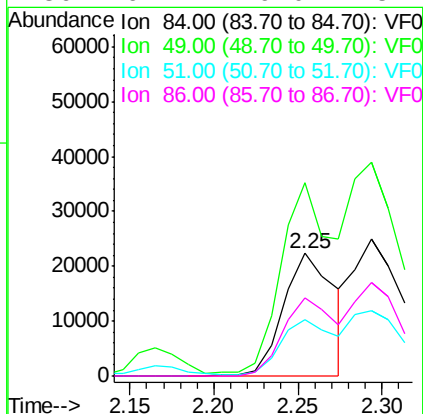
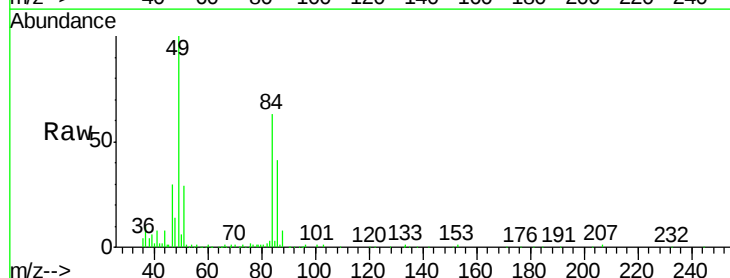
Tgt Ion: 73 Resp: 311957  
Ion Ratio Lower Upper  
73 100  
57 16.7 13.7 20.5

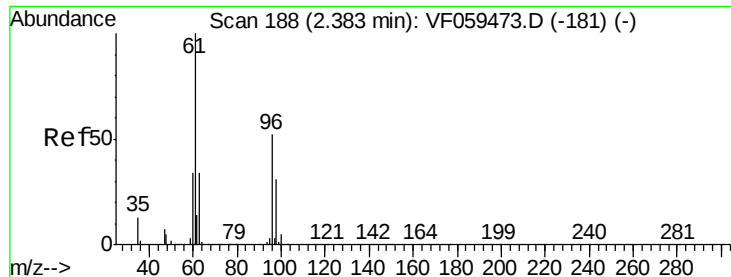


#20

Methylene Chloride  
Concen: 19.687 ug/l  
RT: 2.25 min Scan# 175  
Delta R.T. 0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Tgt Ion: 84 Resp: 46881  
Ion Ratio Lower Upper  
84 100  
49 157.6 120.4 180.6  
51 46.4 38.1 57.1  
86 64.2 49.0 73.4





#21

trans-1,2-Dichloroethene

Concen: 46.435 ug/l

RT: 2.39 min Scan# 189

Delta R.T. 0.01 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

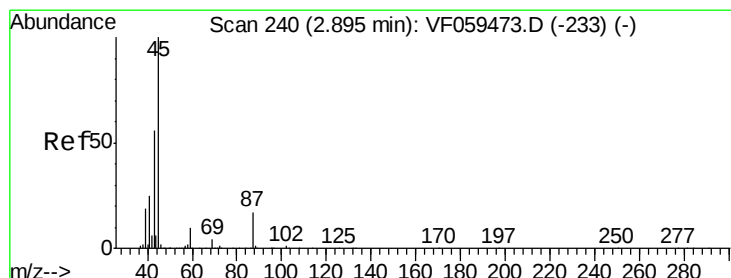
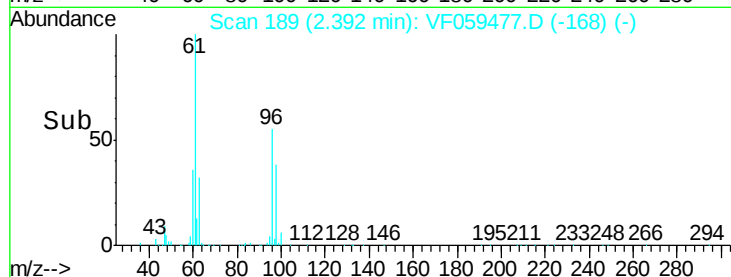
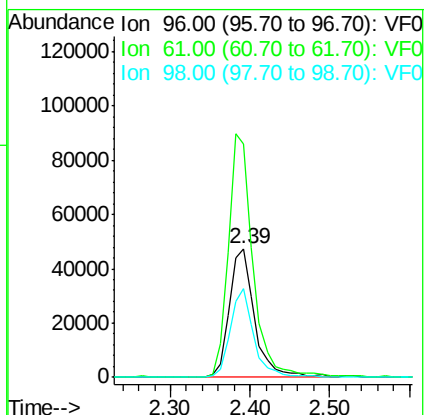
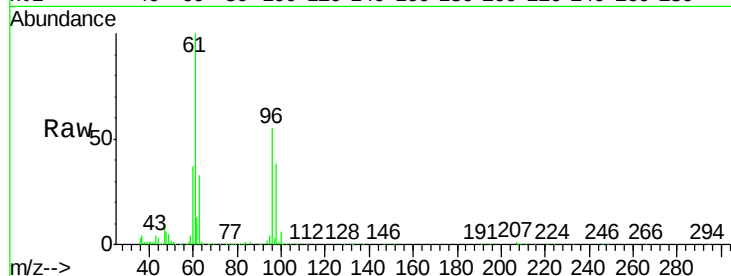
Tgt Ion: 96 Resp: 105962

Ion Ratio Lower Upper

96 100

61 180.8 154.3 231.5

98 68.8 48.2 72.4



#22

Diisopropyl ether

Concen: 49.591 ug/l

RT: 2.89 min Scan# 240

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Tgt Ion: 45 Resp: 382490

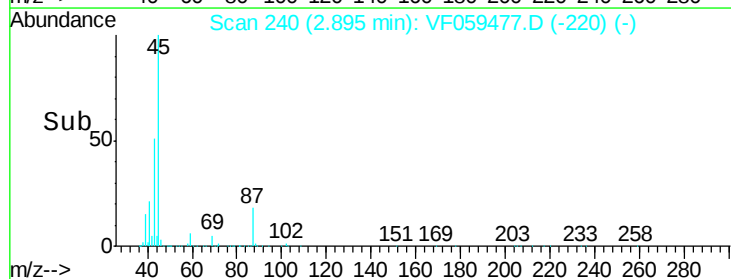
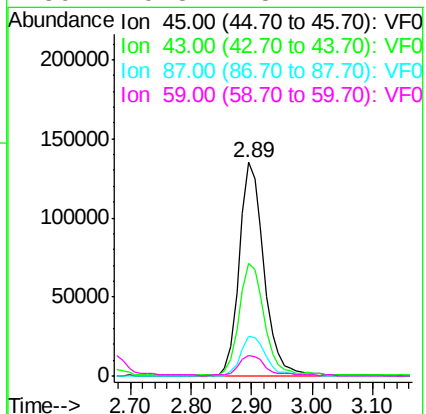
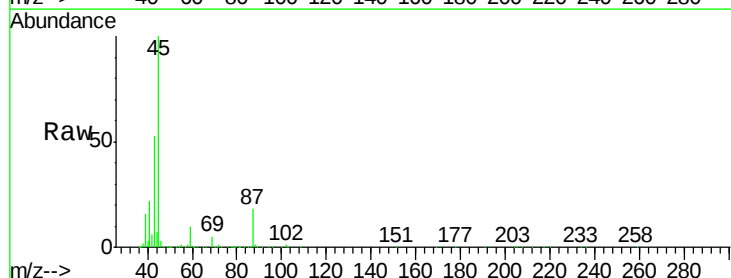
Ion Ratio Lower Upper

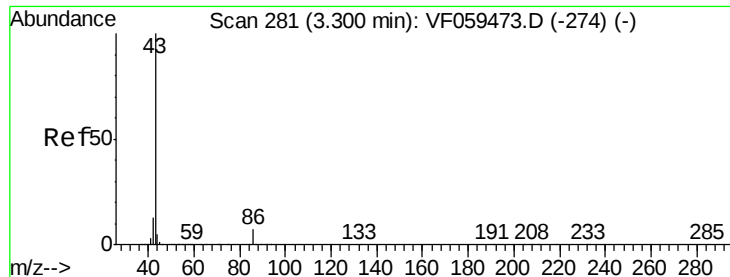
45 100

43 52.6 45.4 68.2

87 18.4 13.5 20.3

59 9.8 8.2 12.4





#23

Vinyl Acetate

Concen: 255.495 ug/l

RT: 3.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

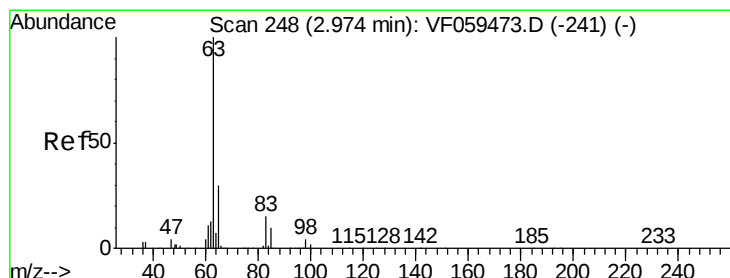
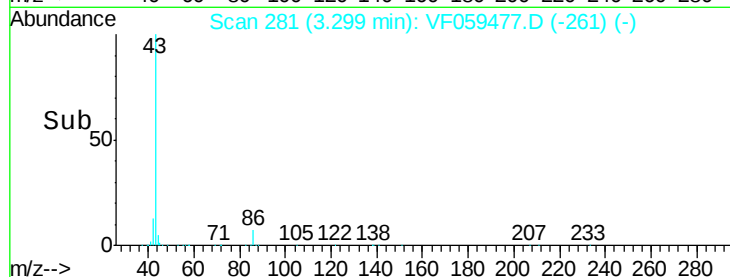
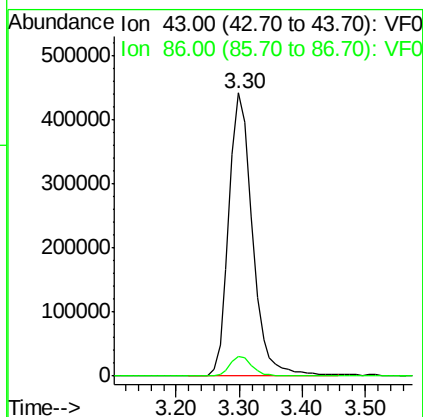
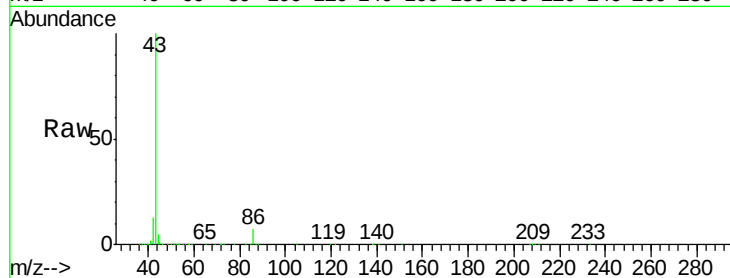
ICVVF070718

Tgt Ion: 43 Resp: 1144050

Ion Ratio Lower Upper

43 100

86 7.0 5.3 7.9



#24

1,1-Dichloroethane

Concen: 47.060 ug/l

RT: 2.97 min Scan# 248

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

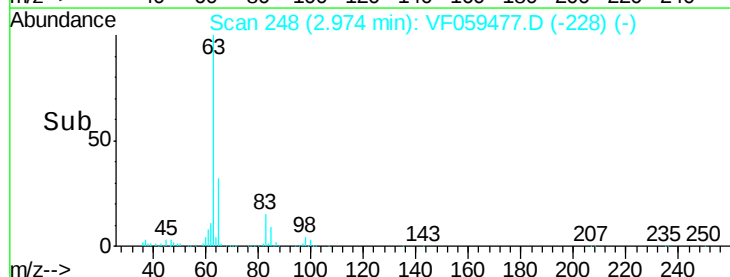
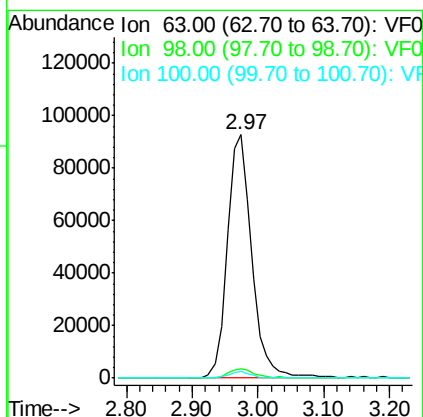
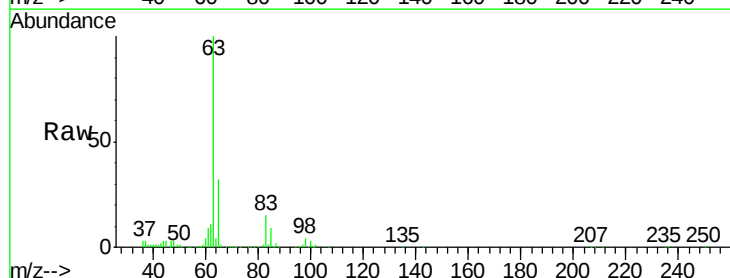
Tgt Ion: 63 Resp: 242705

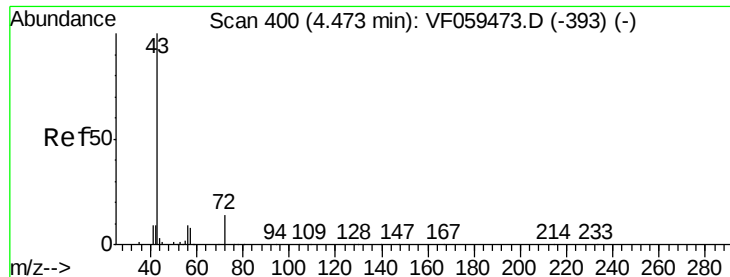
Ion Ratio Lower Upper

63 100

98 3.6 1.8 5.5

100 2.8 1.1 3.3





#25

2-Butanone

Concen: 260.031 ug/l

RT: 4.47 min Scan# 400

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

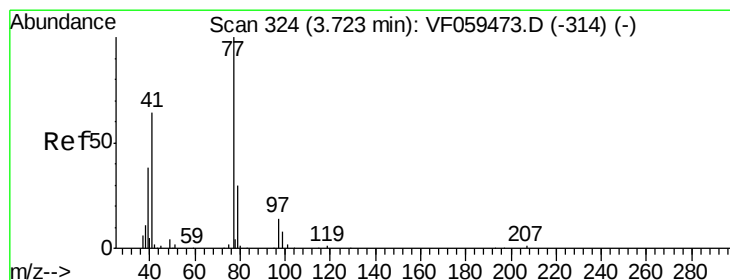
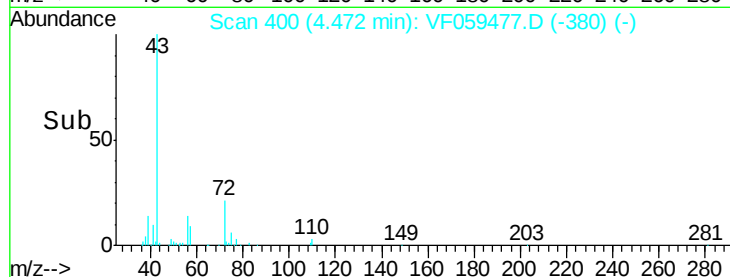
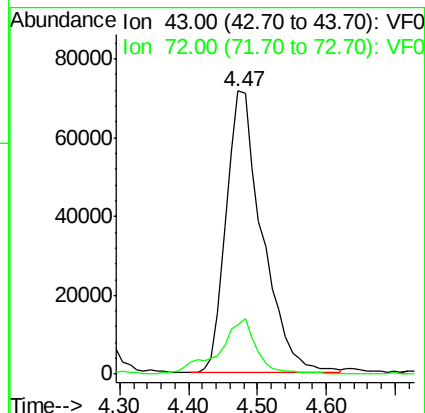
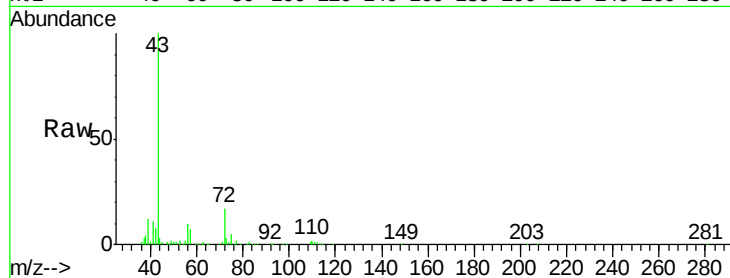
ICVVF070718

Tgt Ion: 43 Resp: 261512

Ion Ratio Lower Upper

43 100

72 17.5 13.8 20.8



#26

2,2-Dichloropropane

Concen: 43.691 ug/l

RT: 3.72 min Scan# 324

Delta R.T. -0.00 min

Lab File: VF059477.D

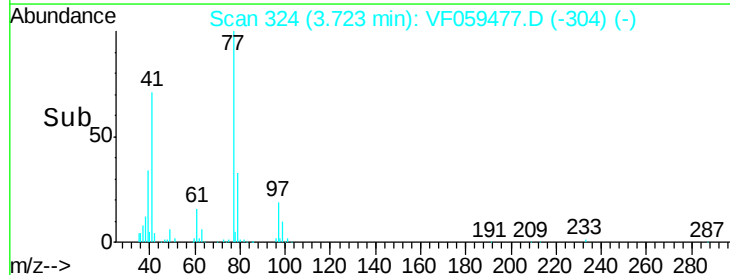
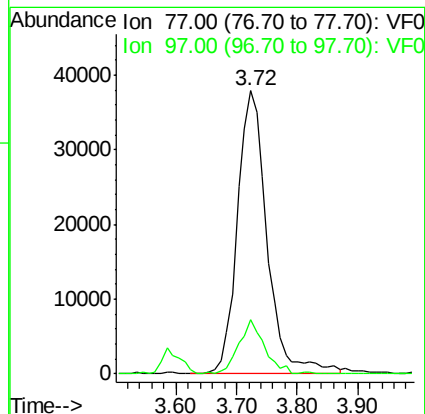
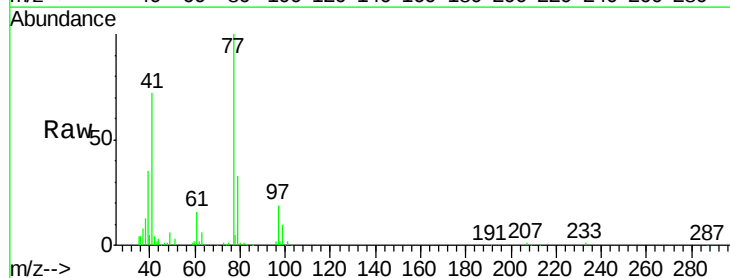
Acq: 7 Jul 2018 5:44

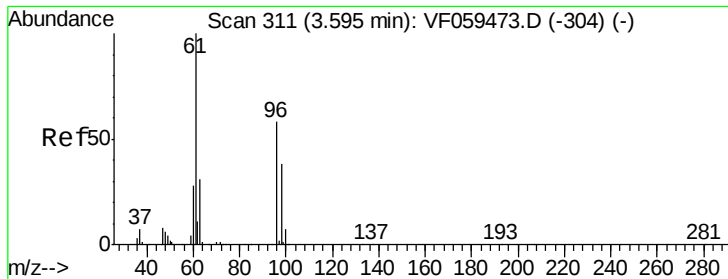
Tgt Ion: 77 Resp: 129887

Ion Ratio Lower Upper

77 100

97 19.2 7.7 23.1



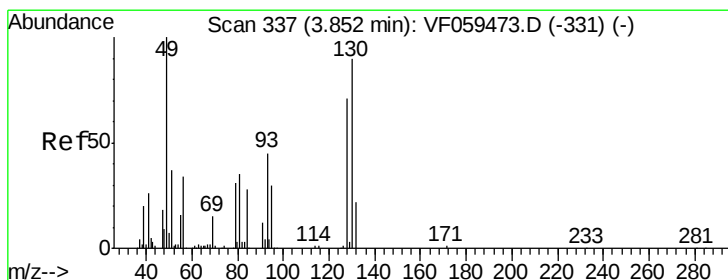
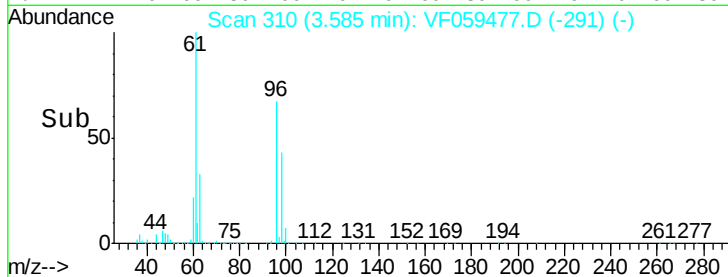
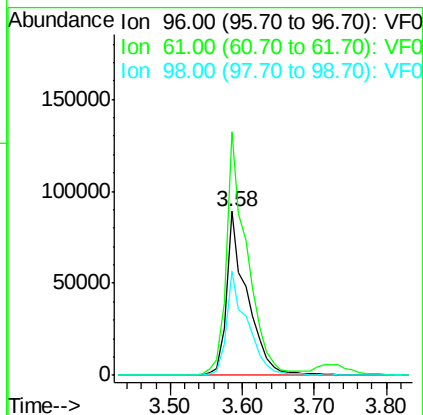
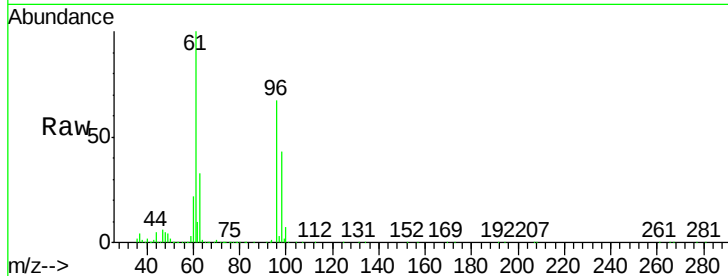


#27

cis-1,2-Dichloroethene  
 Concen: 62.916 ug/l  
 RT: 3.58 min Scan# 310  
 Delta R.T. -0.01 min  
 Lab File: VF059477.D  
 Acq: 7 Jul 2018 5:44

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVF070718

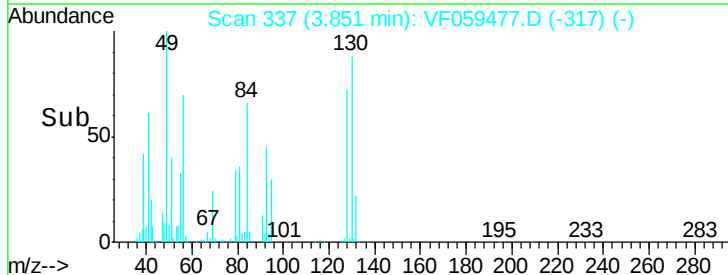
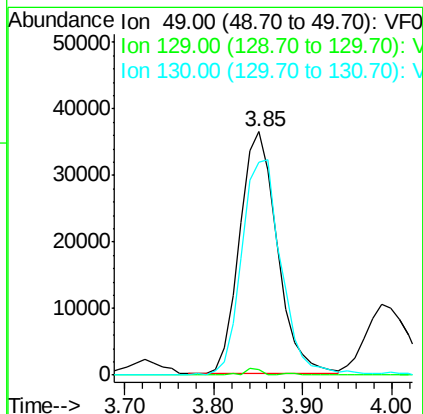
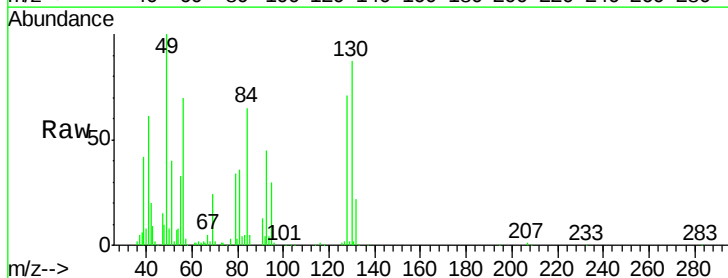
Tgt Ion: 96 Resp: 176444  
 Ion Ratio Lower Upper  
 96 100  
 61 148.5 0.0 342.0  
 98 63.8 0.0 130.0

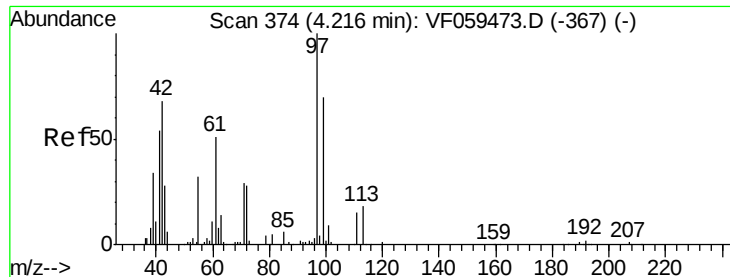


#28

Bromochloromethane  
 Concen: 49.923 ug/l  
 RT: 3.85 min Scan# 337  
 Delta R.T. -0.00 min  
 Lab File: VF059477.D  
 Acq: 7 Jul 2018 5:44

Tgt Ion: 49 Resp: 106860  
 Ion Ratio Lower Upper  
 49 100  
 129 2.3 0.0 6.2  
 130 87.4 71.4 107.0





#29

Tetrahydrofuran

Concen: 249.346 ug/l

RT: 4.22 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

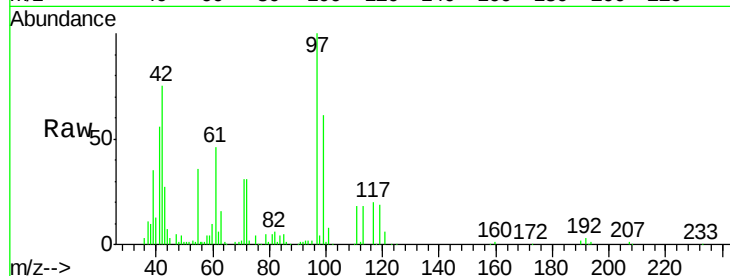
Tgt Ion: 42 Resp: 117547

Ion Ratio Lower Upper

42 100

72 38.7 29.2 43.8

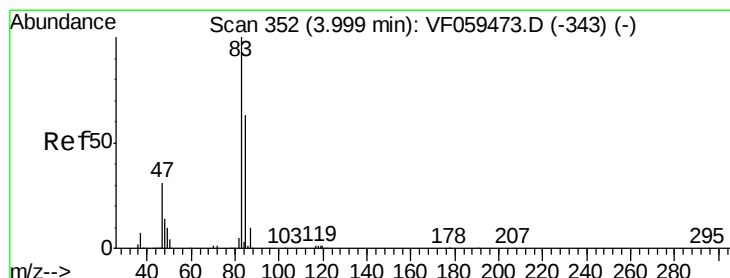
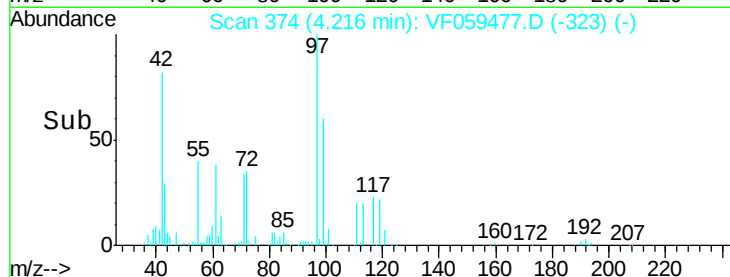
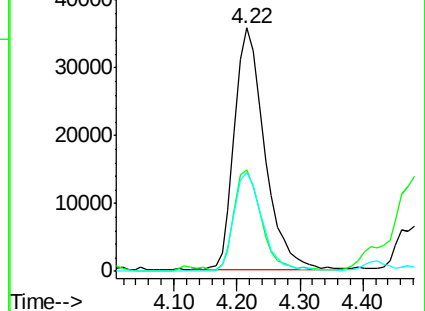
71 39.1 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 45.121 ug/l

RT: 4.00 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF059477.D

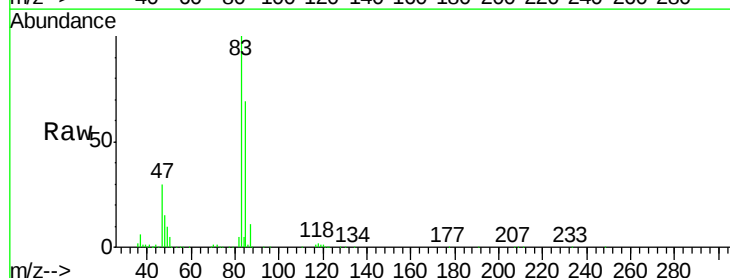
Acq: 7 Jul 2018 5:44

Tgt Ion: 83 Resp: 329282

Ion Ratio Lower Upper

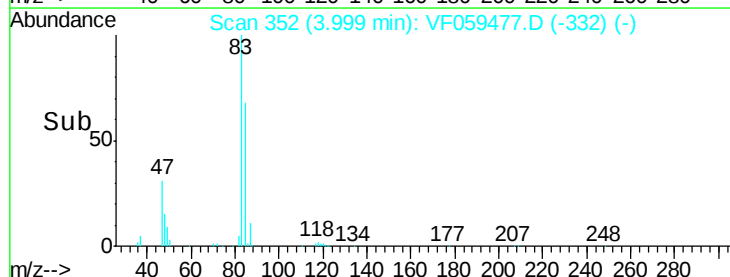
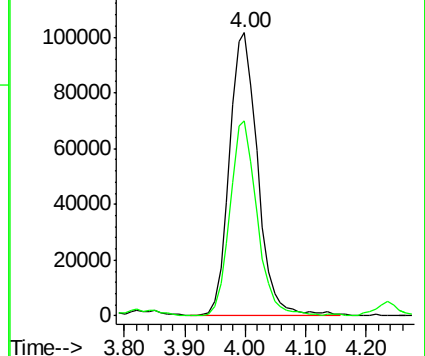
83 100

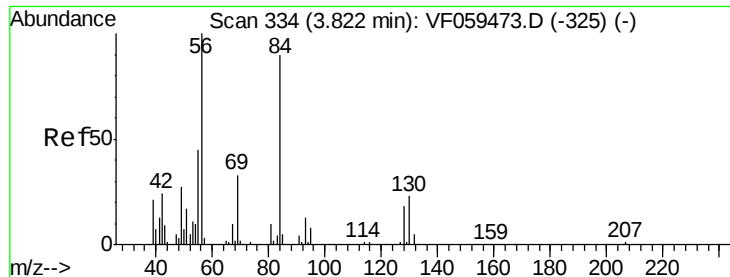
85 68.7 50.3 75.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

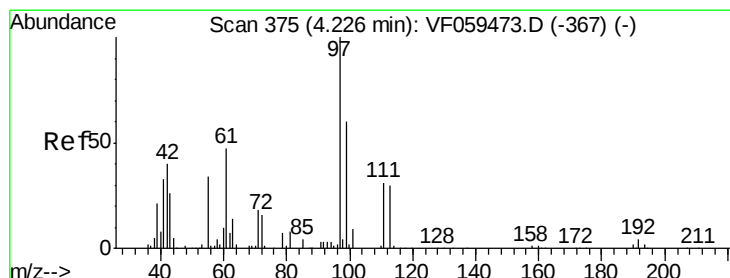
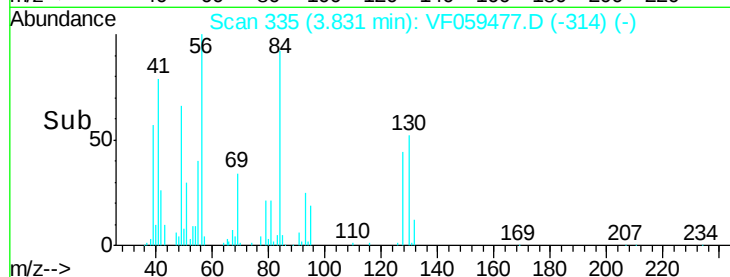
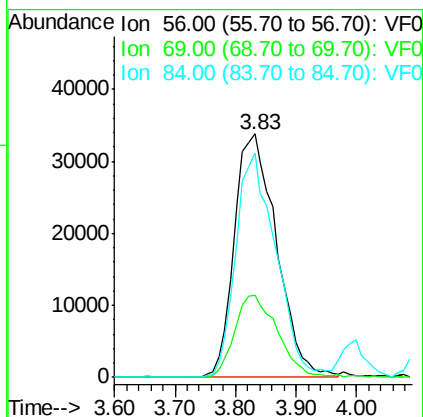
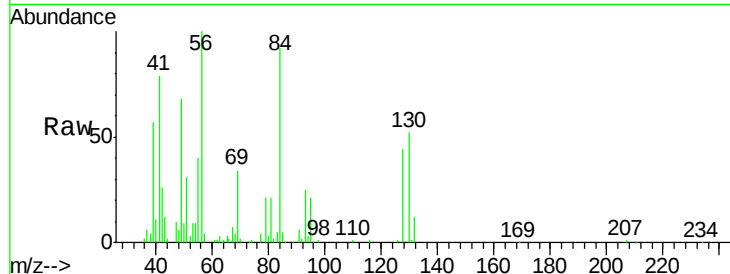




#31  
Cyclohexane  
Concen: 54.701 ug/l  
RT: 3.83 min Scan# 335  
Delta R.T. 0.01 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

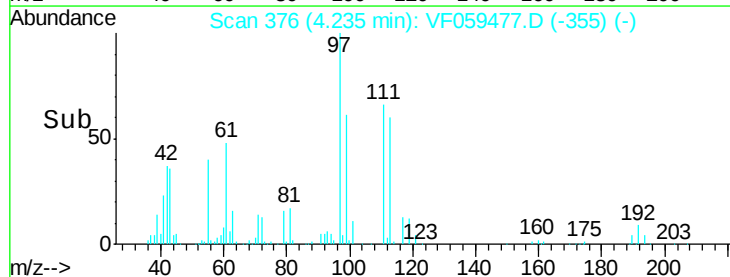
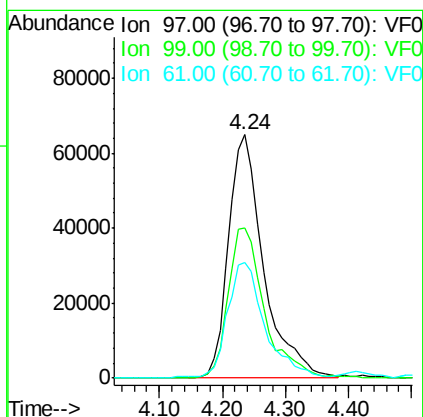
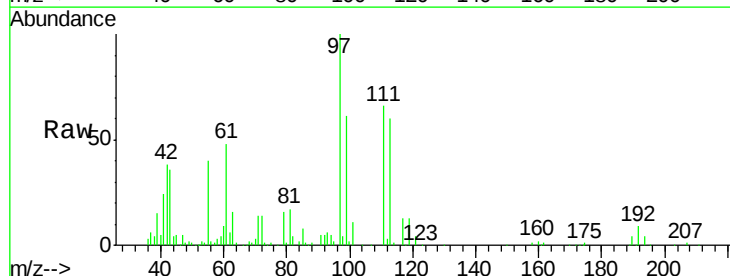
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

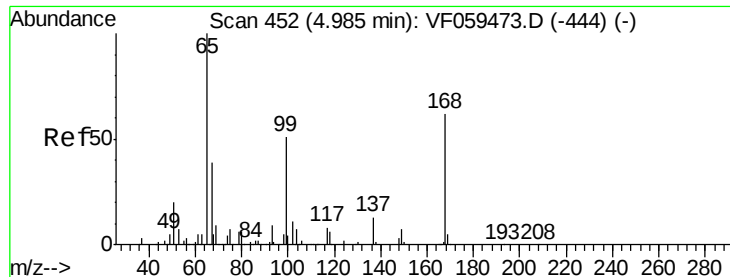
Tgt Ion: 56 Resp: 163600  
Ion Ratio Lower Upper  
56 100  
69 33.8 26.2 39.2  
84 92.3 72.3 108.5



#32  
1,1,1-Trichloroethane  
Concen: 44.627 ug/l  
RT: 4.24 min Scan# 376  
Delta R.T. 0.01 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Tgt Ion: 97 Resp: 250469  
Ion Ratio Lower Upper  
97 100  
99 61.4 47.8 71.6  
61 47.5 37.9 56.9





#33

1,2-Dichloroethane-d4

Concen: 45.712 ug/l

RT: 4.98 min Scan# 452

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

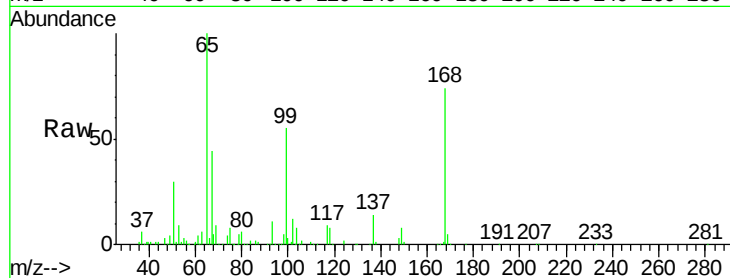
ICVVF070718

Tgt Ion: 65 Resp: 225568

Ion Ratio Lower Upper

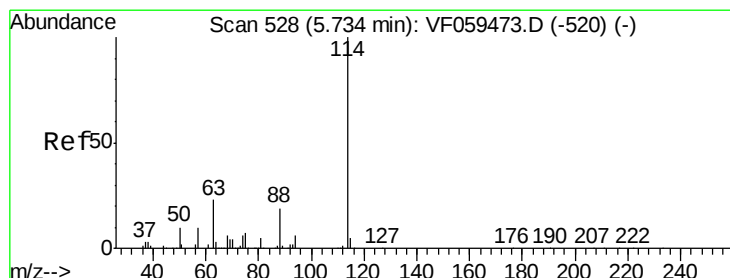
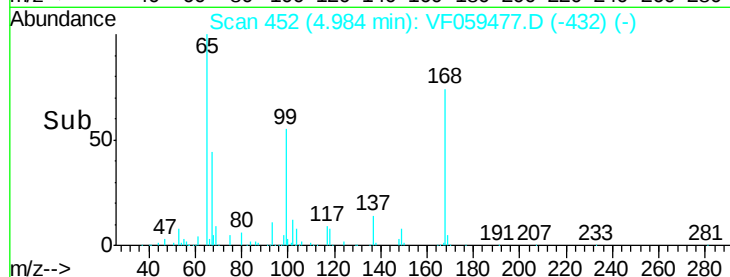
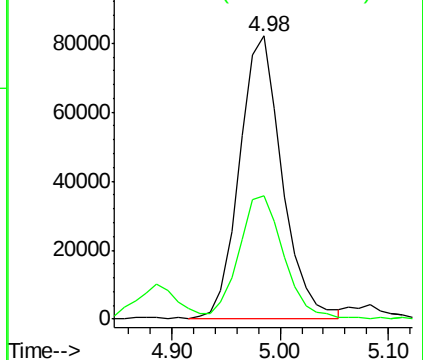
65 100

67 43.8 0.0 88.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.72 min Scan# 527

Delta R.T. -0.01 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

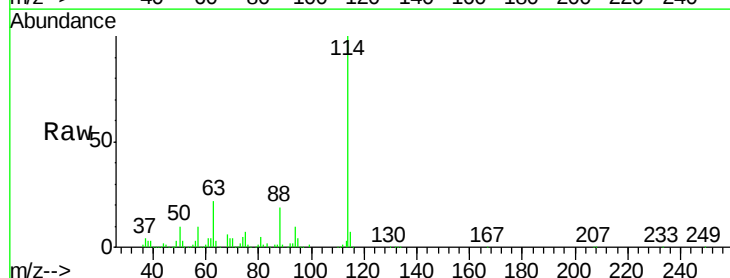
Tgt Ion: 114 Resp: 409004

Ion Ratio Lower Upper

114 100

63 21.8 0.0 47.2

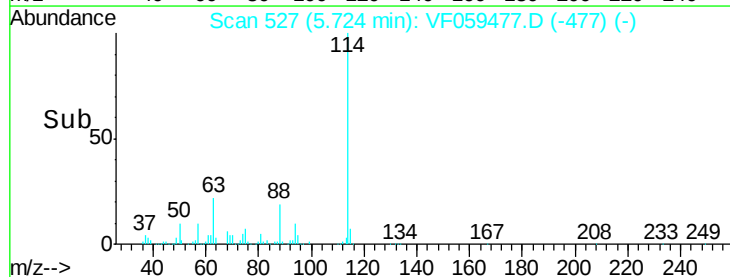
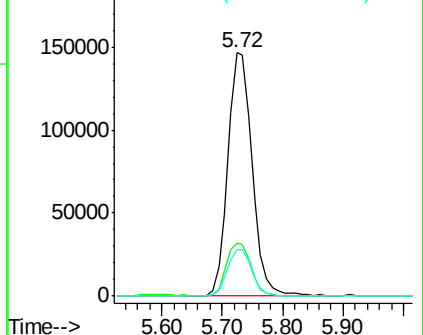
88 19.1 0.0 38.0

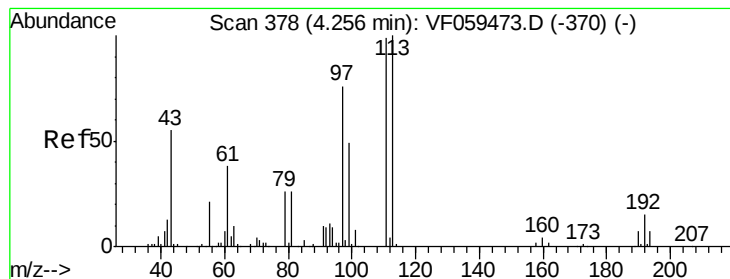


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 47.633 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

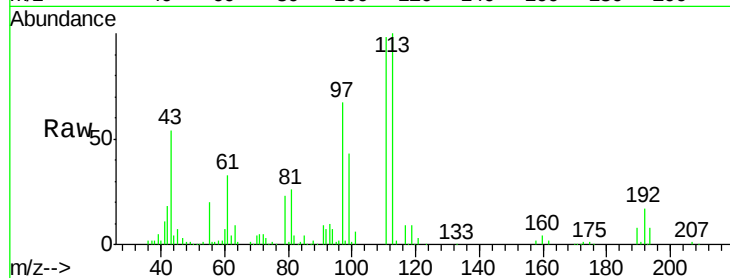
Tgt Ion: 113 Resp: 186932

Ion Ratio Lower Upper

113 100

111 98.4 79.3 118.9

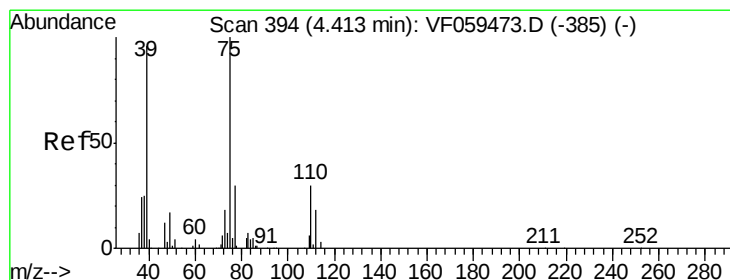
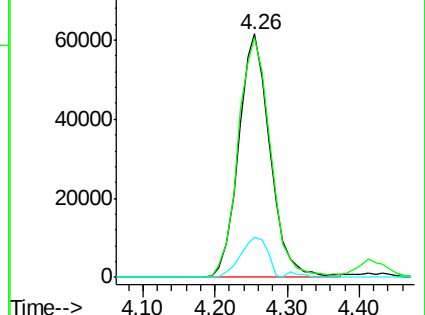
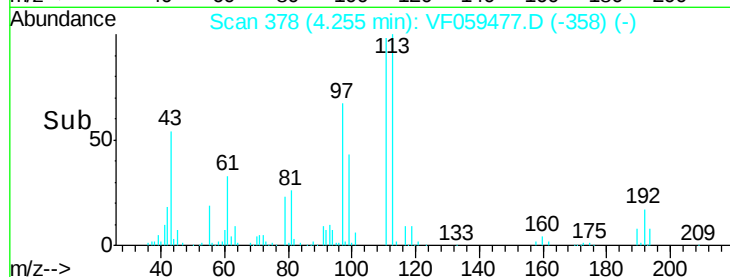
192 16.7 12.0 18.0



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: 50.120 ug/l

RT: 4.42 min Scan# 395

Delta R.T. 0.01 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

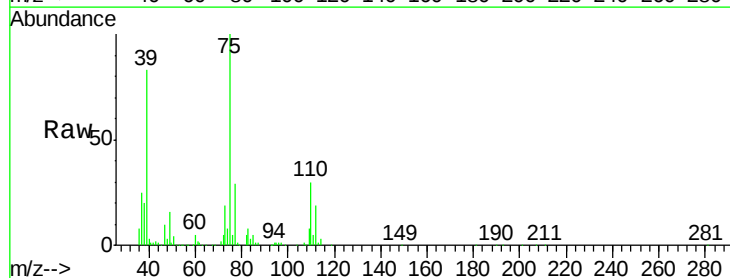
Tgt Ion: 75 Resp: 216514

Ion Ratio Lower Upper

75 100

110 29.9 15.2 45.5

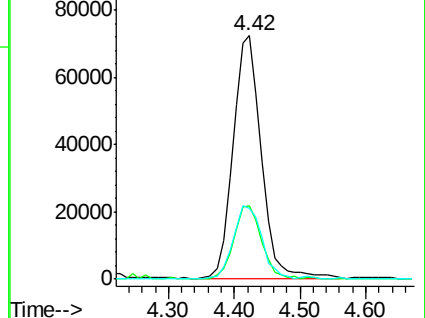
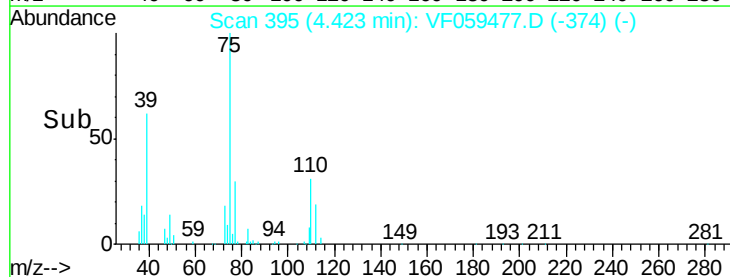
77 29.0 24.2 36.2

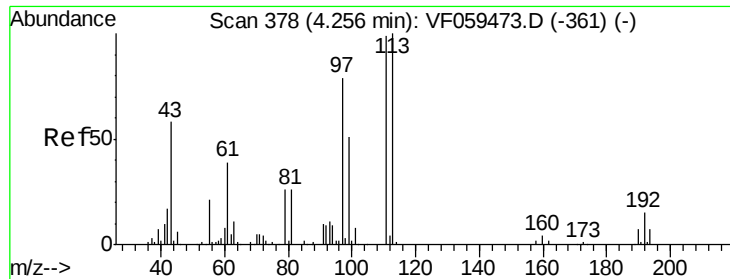


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

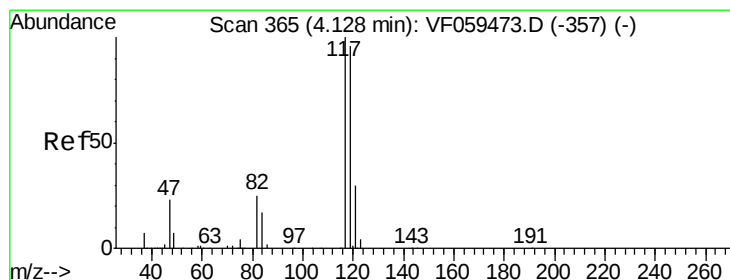
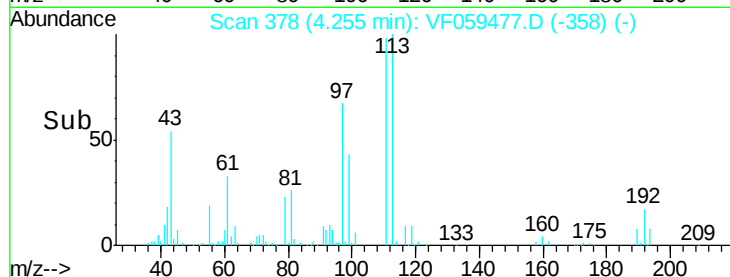
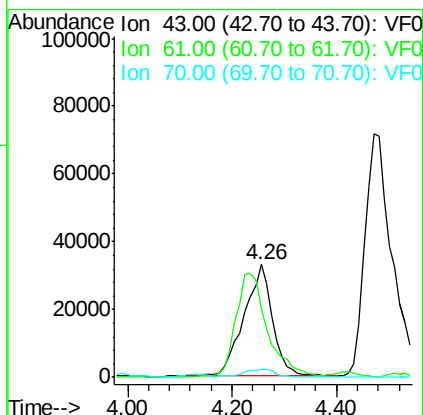
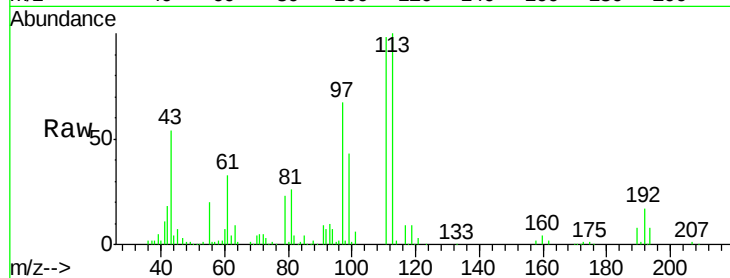




#37  
Ethyl Acetate  
Concen: 48.436 ug/l  
RT: 4.26 min Scan# 378  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

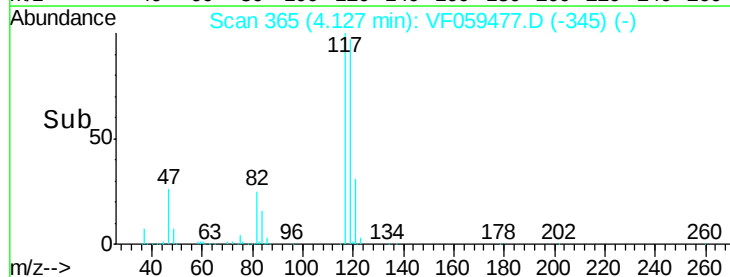
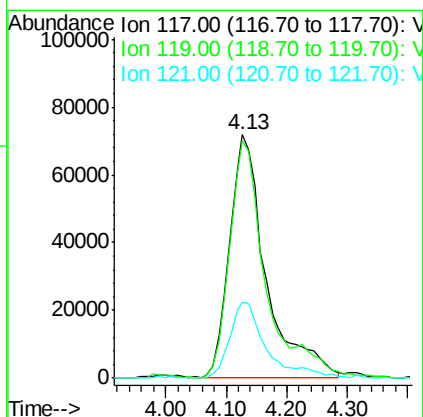
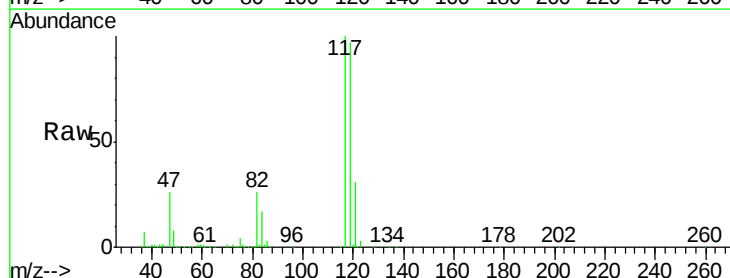
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

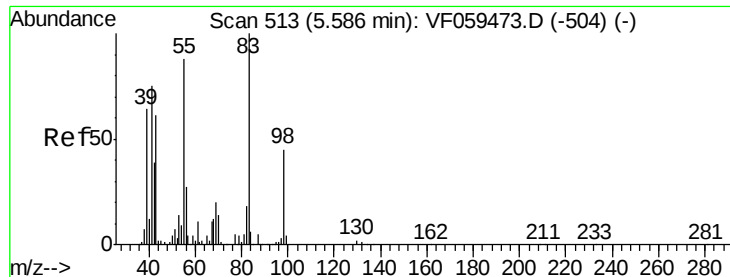
Tgt Ion: 43 Resp: 122789  
Ion Ratio Lower Upper  
43 100  
61 60.9 54.2 81.4  
70 7.5 7.0 10.6



#38  
Carbon Tetrachloride  
Concen: 48.725 ug/l  
RT: 4.13 min Scan# 365  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Tgt Ion: 117 Resp: 300816  
Ion Ratio Lower Upper  
117 100  
119 97.5 76.5 114.7  
121 31.2 23.6 35.4

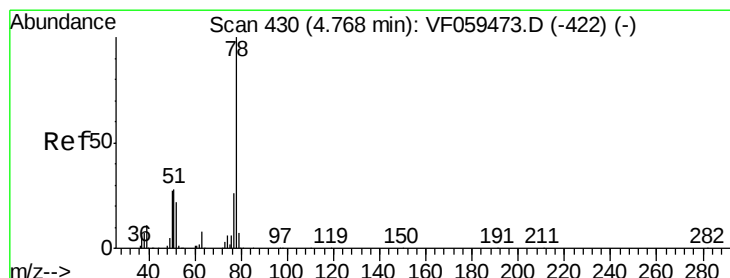
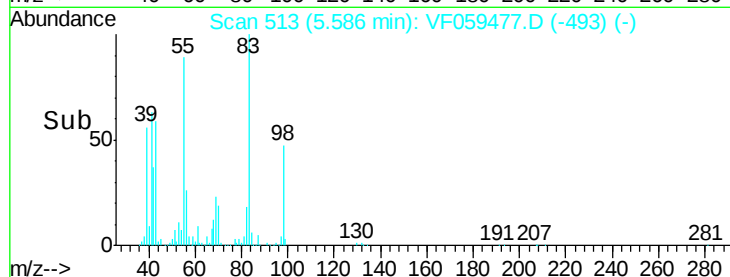
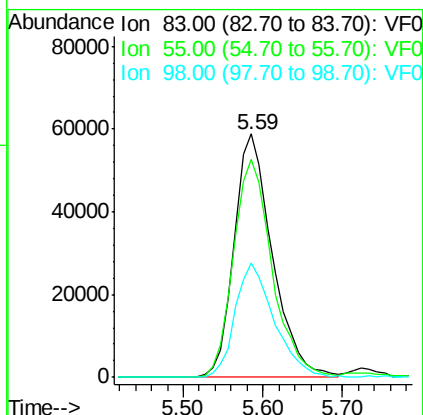
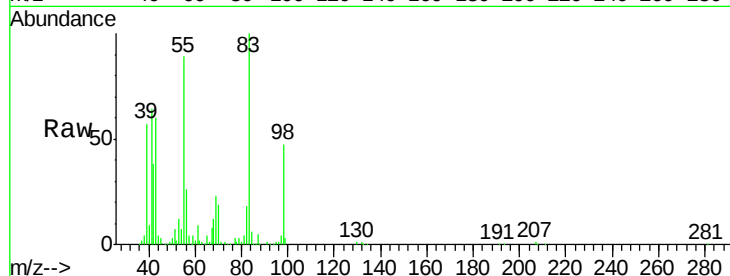




#39  
Methylcyclohexane  
Concen: 54.084 ug/l  
RT: 5.59 min Scan# 513  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

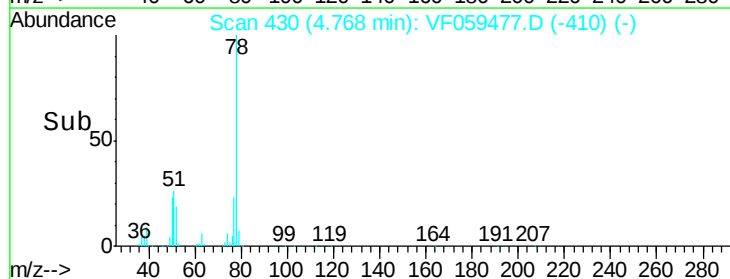
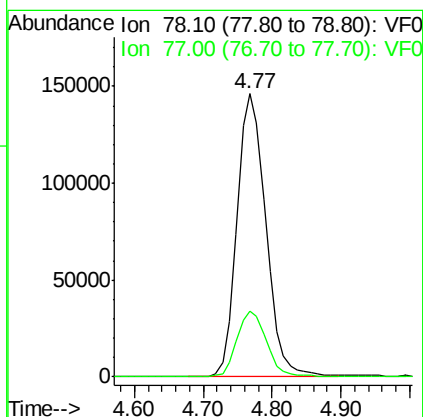
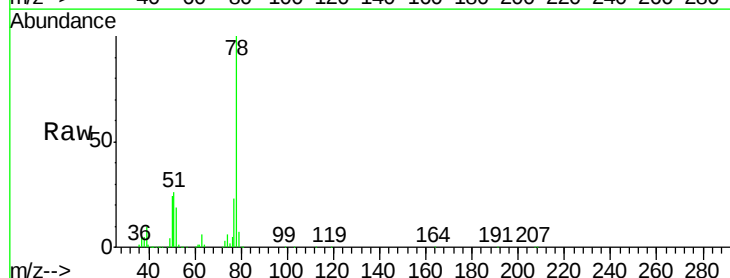
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

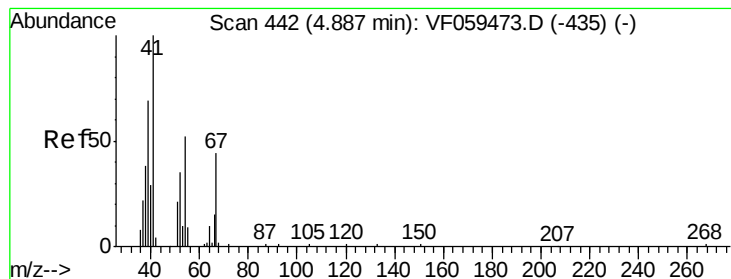
Tgt Ion: 83 Resp: 196232  
Ion Ratio Lower Upper  
83 100  
55 89.4 70.6 105.8  
98 47.0 36.3 54.5



#40  
Benzene  
Concen: 50.153 ug/l  
RT: 4.77 min Scan# 430  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Tgt Ion: 78 Resp: 424574  
Ion Ratio Lower Upper  
78 100  
77 23.4 20.8 31.2





#41

Methacrylonitrile

Concen: 53.314 ug/l

RT: 4.89 min Scan# 442

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

Tgt Ion: 41 Resp: 62086

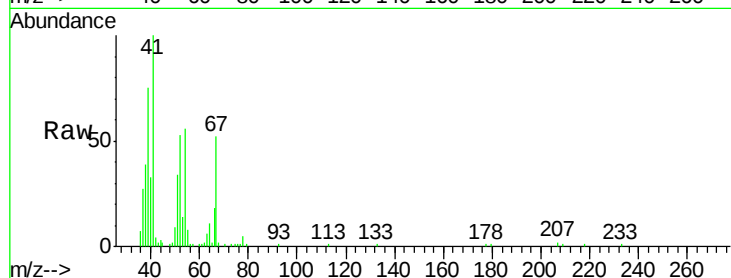
Ion Ratio Lower Upper

41 100

39 74.8 61.7 92.5

67 52.0 35.4 53.2

52 52.9 37.4 56.2

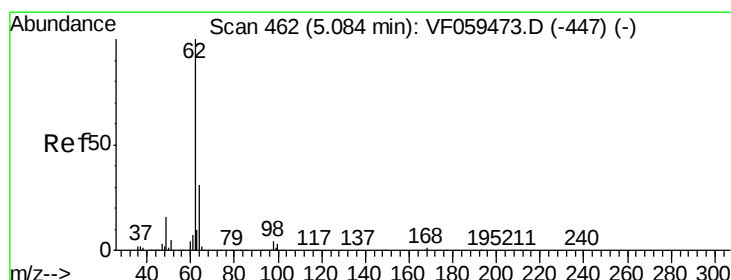
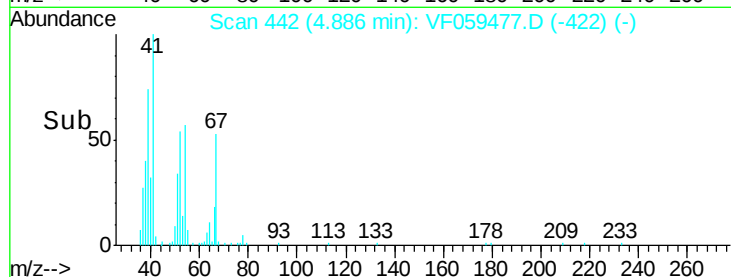
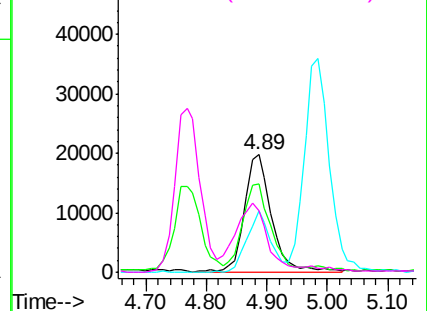


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 43.366 ug/l

RT: 5.07 min Scan# 461

Delta R.T. -0.01 min

Lab File: VF059477.D

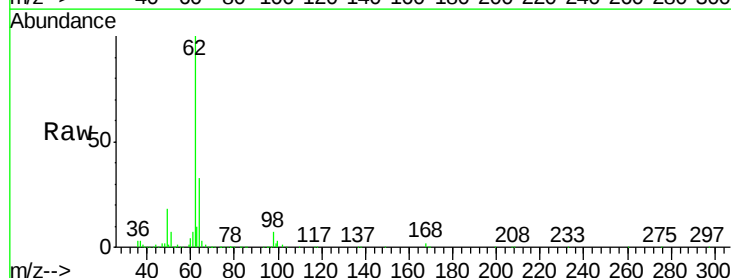
Acq: 7 Jul 2018 5:44

Tgt Ion: 62 Resp: 265998

Ion Ratio Lower Upper

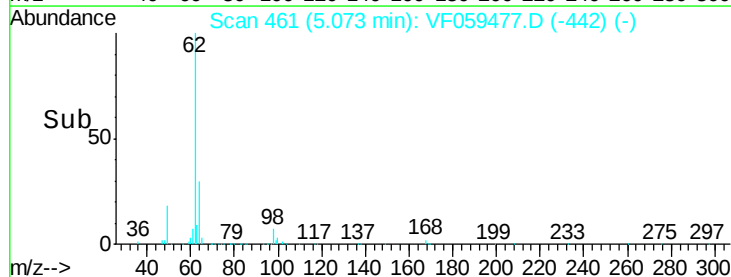
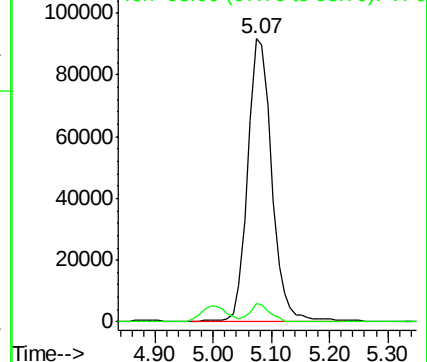
62 100

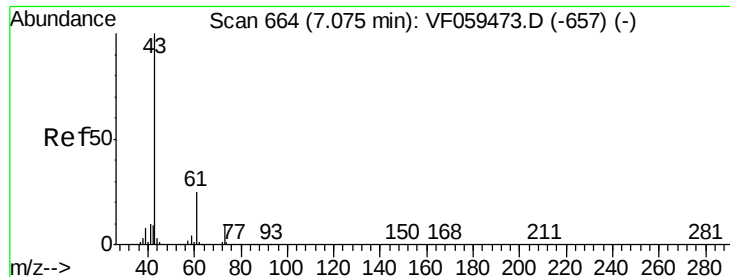
98 6.6 0.0 7.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 54.273 ug/l

RT: 7.07 min Scan# 664

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

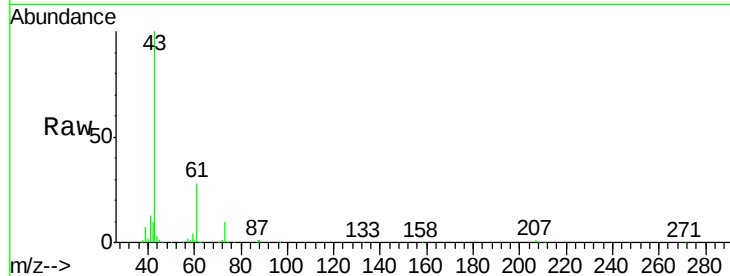
Tgt Ion: 43 Resp: 157508

Ion Ratio Lower Upper

43 100

61 27.7 20.3 30.5

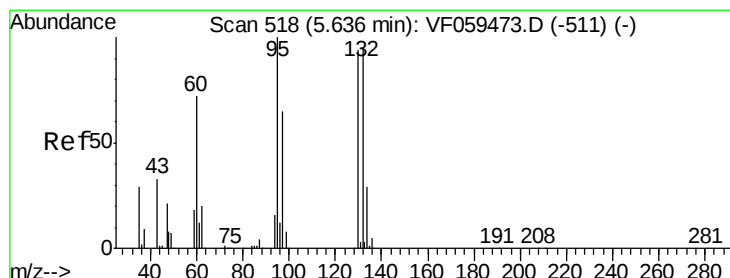
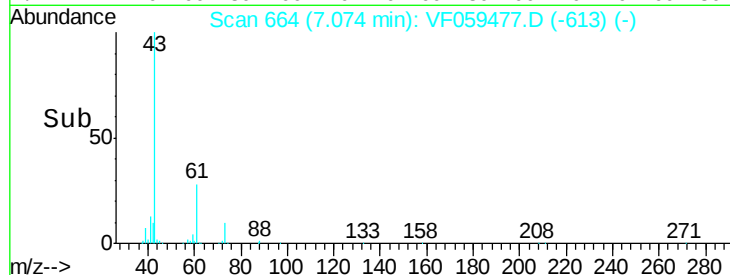
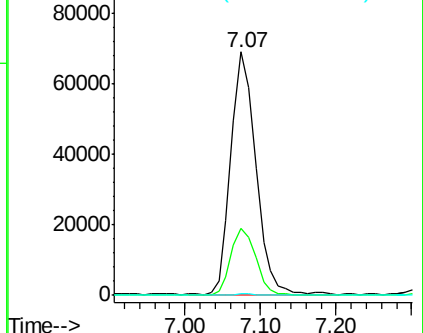
87 0.7 0.3 0.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 47.664 ug/l

RT: 5.64 min Scan# 518

Delta R.T. -0.00 min

Lab File: VF059477.D

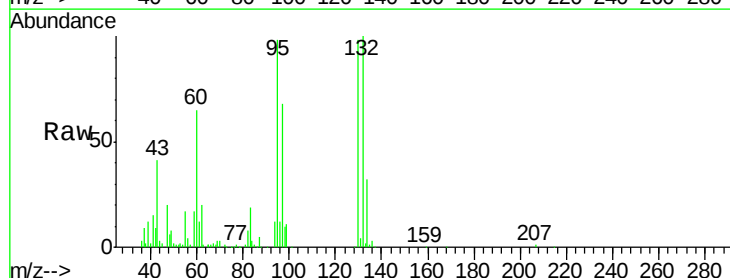
Acq: 7 Jul 2018 5:44

Tgt Ion:130 Resp: 148845

Ion Ratio Lower Upper

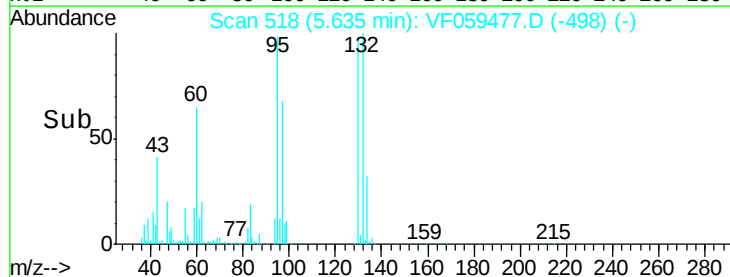
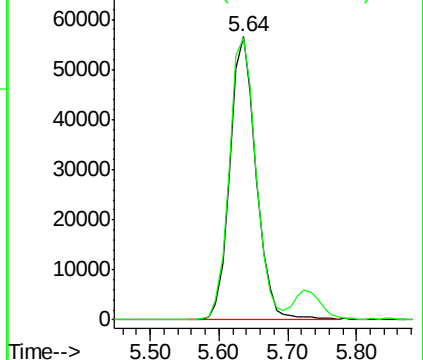
130 100

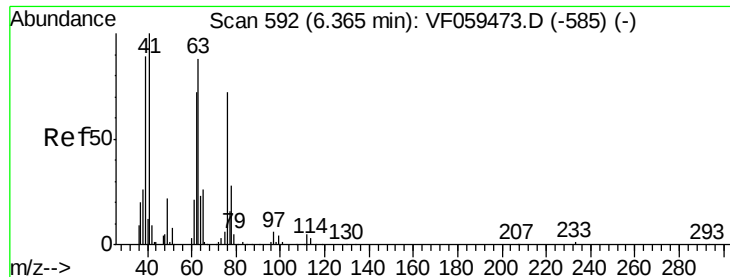
95 99.7 0.0 214.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 48.498 ug/l

RT: 6.36 min Scan# 592

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

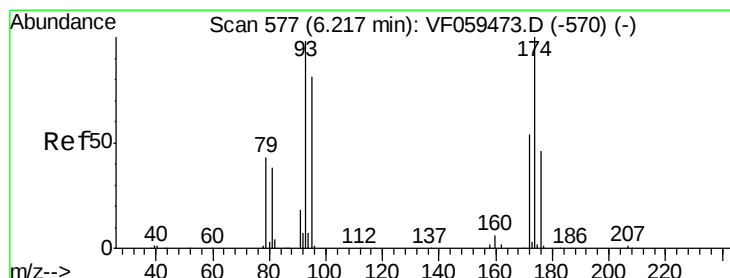
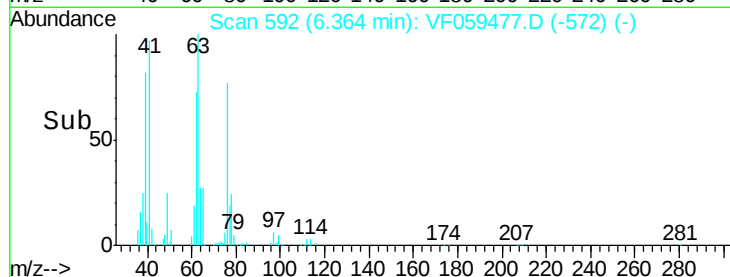
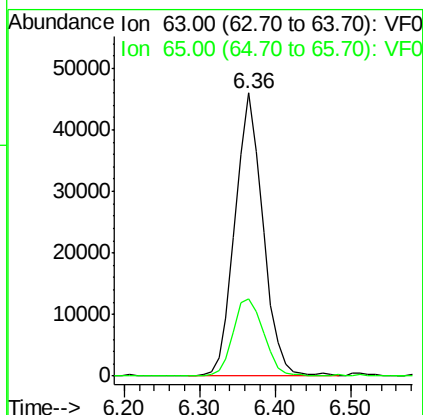
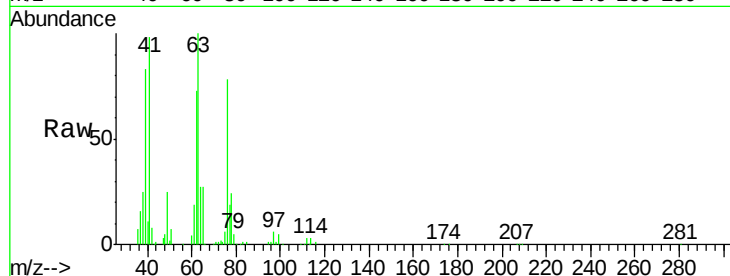
ICVVF070718

Tgt Ion: 63 Resp: 117882

Ion Ratio Lower Upper

63 100

65 27.4 23.5 35.3



#46

Dibromomethane

Concen: 48.308 ug/l

RT: 6.22 min Scan# 577

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

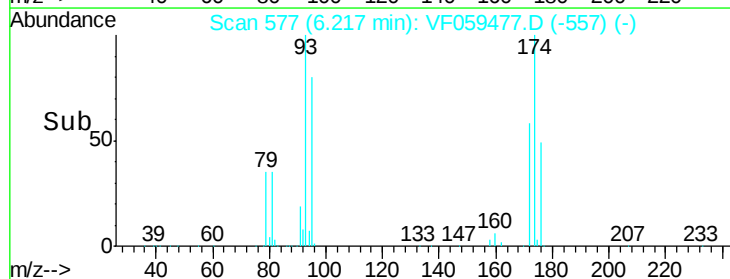
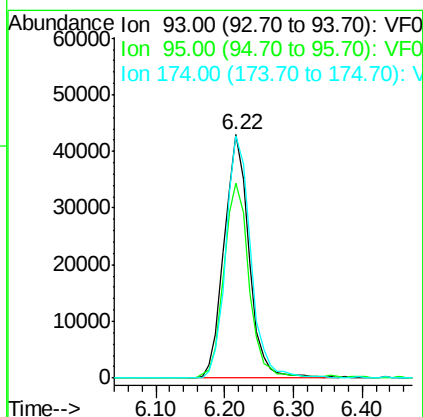
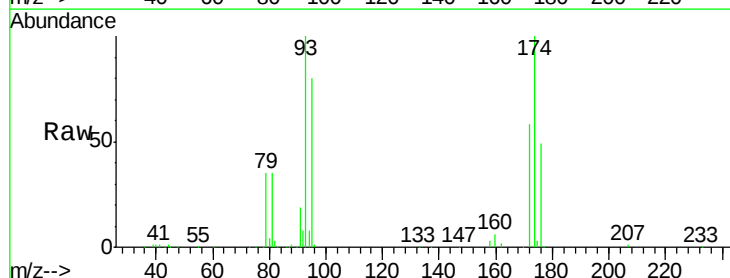
Tgt Ion: 93 Resp: 107641

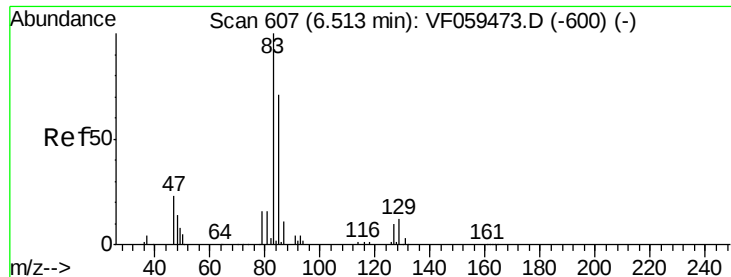
Ion Ratio Lower Upper

93 100

95 80.0 65.9 98.9

174 99.6 83.2 124.8





#47

Bromodichloromethane

Concen: 47.274 ug/l

RT: 6.51 min Scan# 607

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

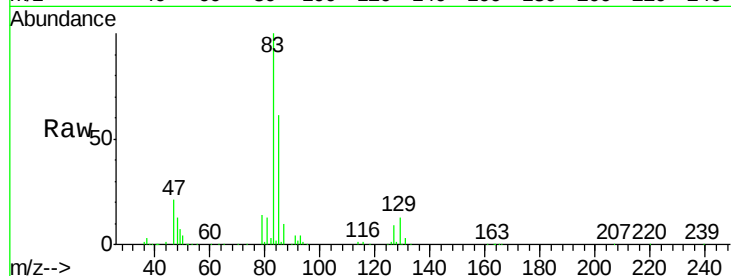
Tgt Ion: 83 Resp: 268034

Ion Ratio Lower Upper

83 100

85 61.2 56.6 84.8

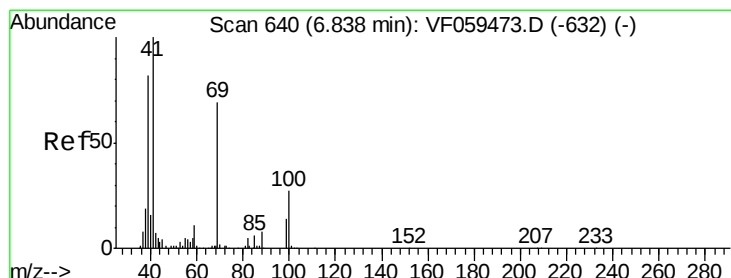
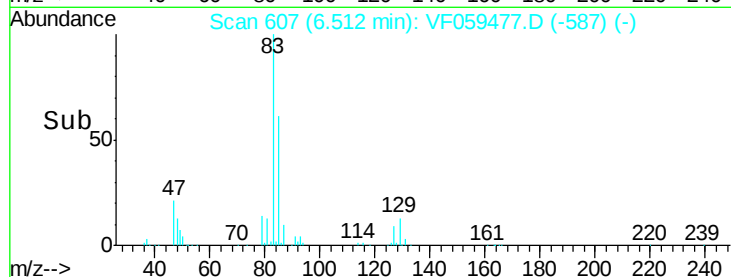
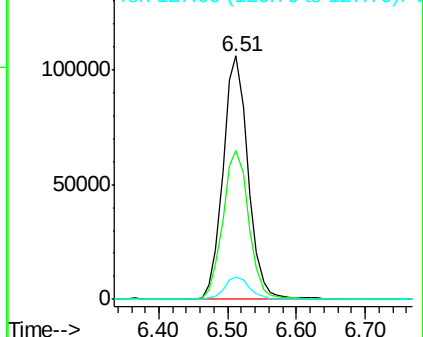
127 9.0 8.1 12.1



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: 52.090 ug/l

RT: 6.84 min Scan# 640

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

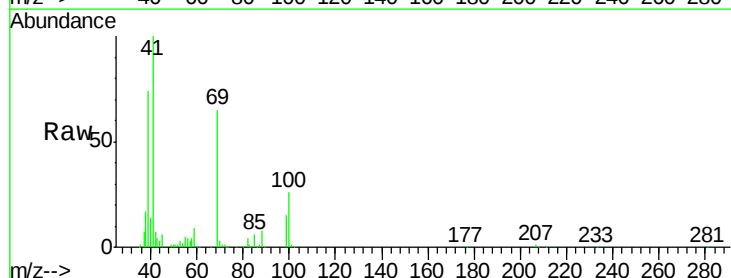
Tgt Ion: 41 Resp: 107873

Ion Ratio Lower Upper

41 100

69 65.1 55.6 83.4

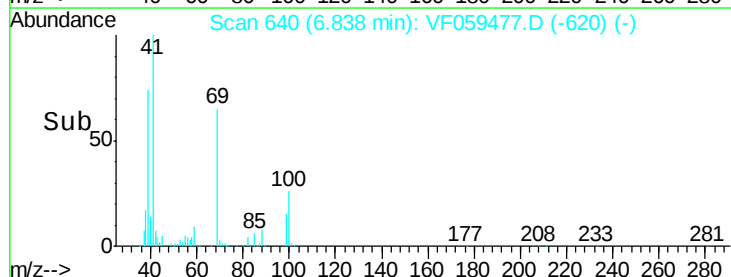
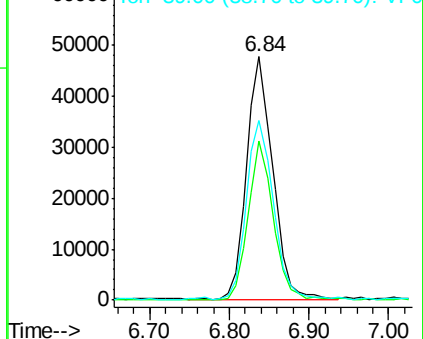
39 73.8 66.0 99.0

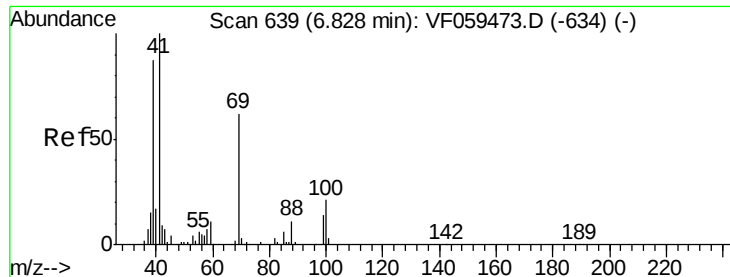


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 1278.226 ug/l

RT: 6.83 min Scan# 639

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

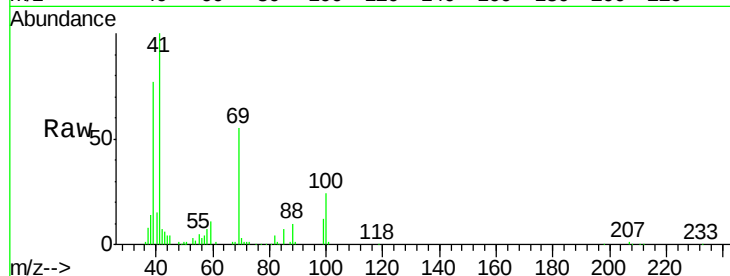
Tgt Ion: 88 Resp: 12014

Ion Ratio Lower Upper

88 100

43 61.4 57.3 85.9

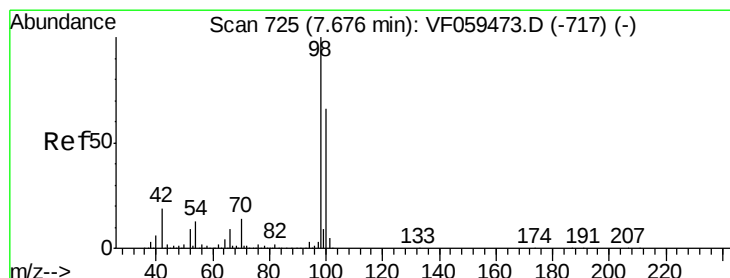
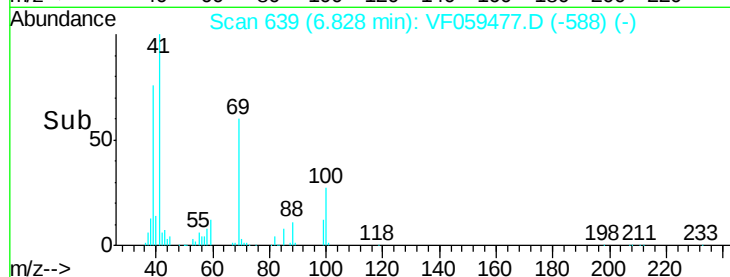
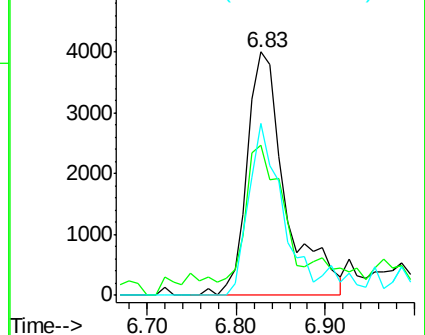
58 70.4 54.6 81.8



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 51.241 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.00 min

Lab File: VF059477.D

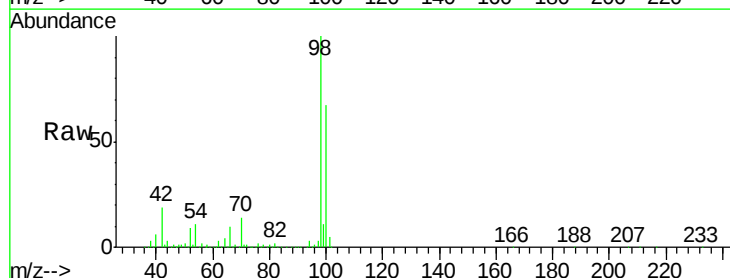
Acq: 7 Jul 2018 5:44

Tgt Ion: 98 Resp: 473053

Ion Ratio Lower Upper

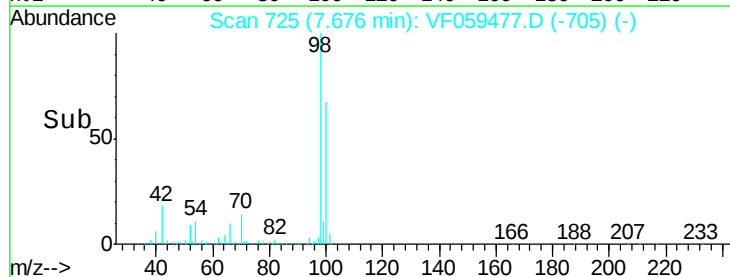
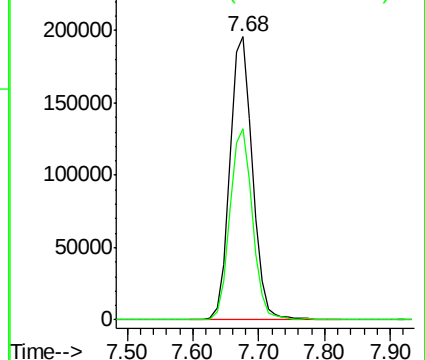
98 100

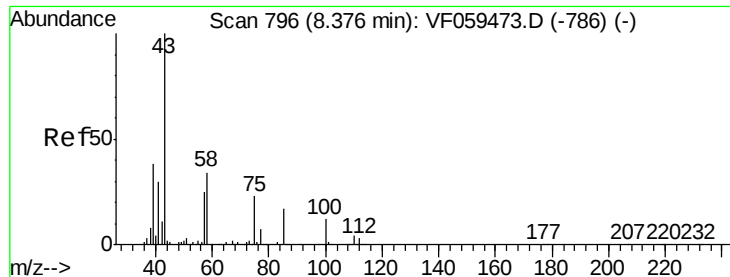
100 67.4 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

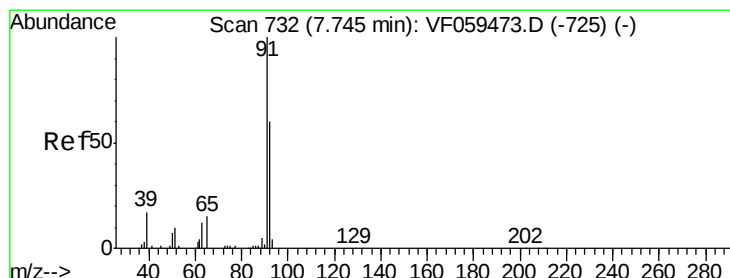
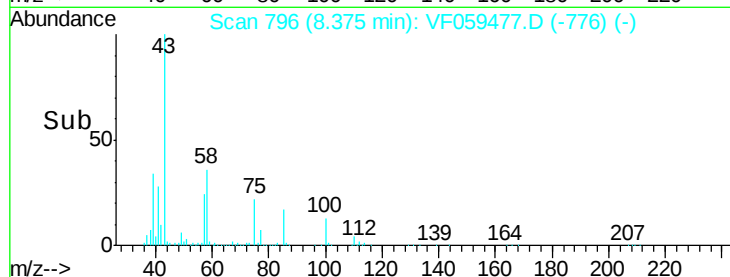
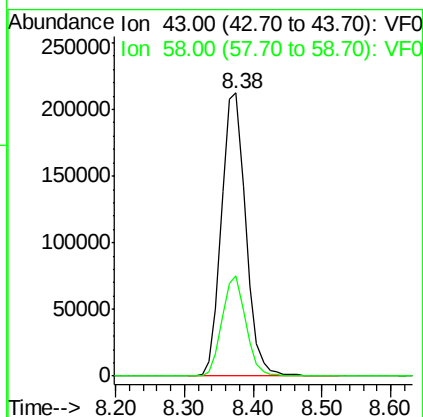
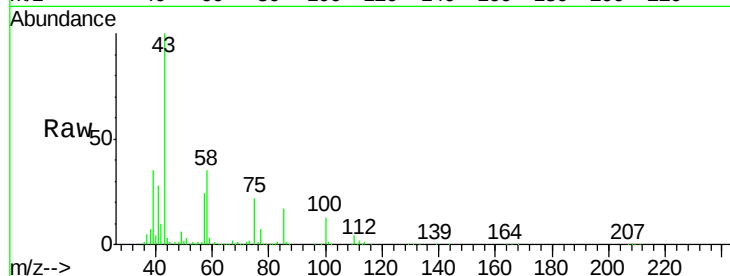




#51  
 4-Methyl-2-Pentanone  
 Concen: 240.865 ug/l  
 RT: 8.38 min Scan# 796  
 Delta R.T. -0.00 min  
 Lab File: VF059477.D  
 Acq: 7 Jul 2018 5:44

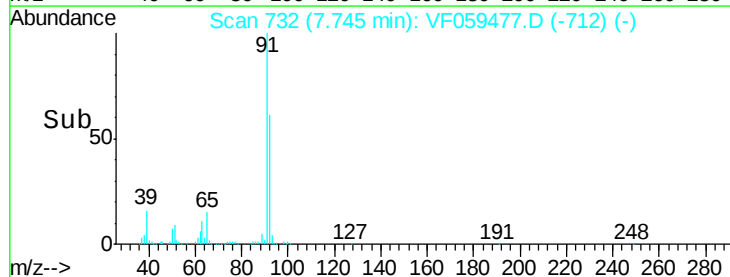
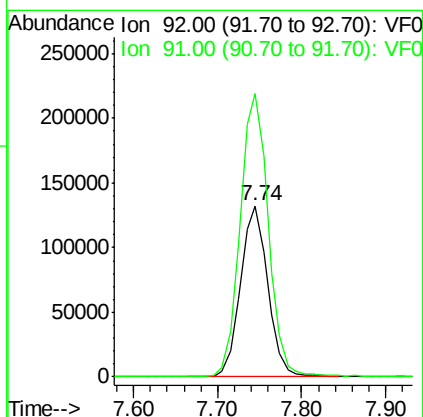
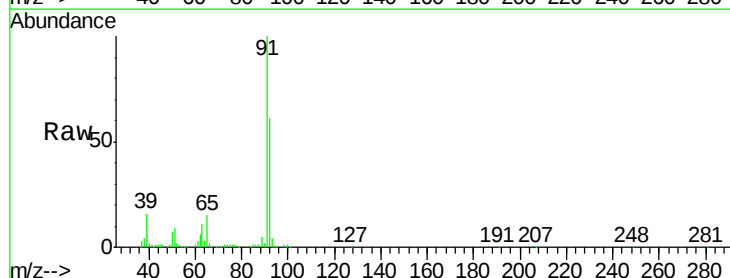
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVF070718

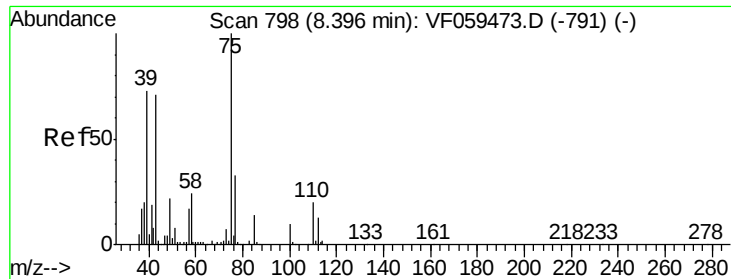
Tgt Ion: 43 Resp: 520848  
 Ion Ratio Lower Upper  
 43 100  
 58 35.5 27.4 41.2



#52  
 Toluene  
 Concen: 47.181 ug/l  
 RT: 7.74 min Scan# 732  
 Delta R.T. -0.00 min  
 Lab File: VF059477.D  
 Acq: 7 Jul 2018 5:44

Tgt Ion: 92 Resp: 298302  
 Ion Ratio Lower Upper  
 92 100  
 91 165.2 134.3 201.5





#53

t-1,3-Dichloropropene

Concen: 43.826 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

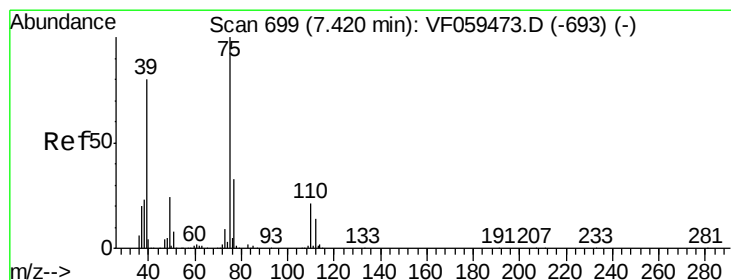
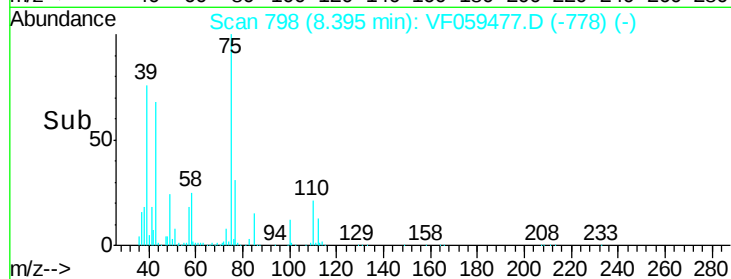
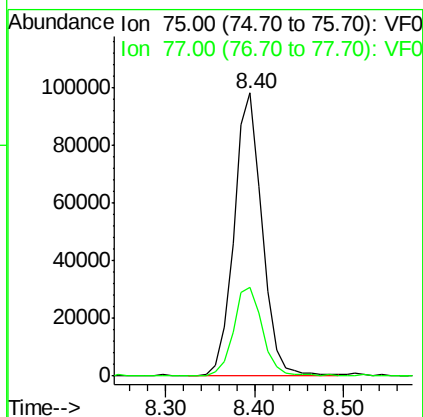
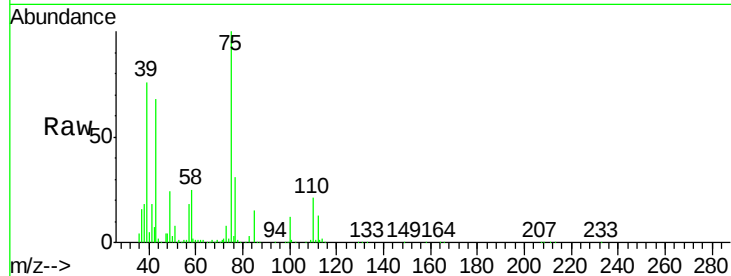
ICVVF070718

Tgt Ion: 75 Resp: 215149

Ion Ratio Lower Upper

75 100

77 31.2 26.4 39.6



#54

cis-1,3-Dichloropropene

Concen: 48.687 ug/l

RT: 7.42 min Scan# 699

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

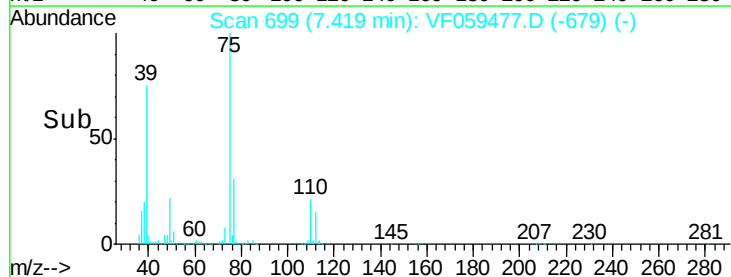
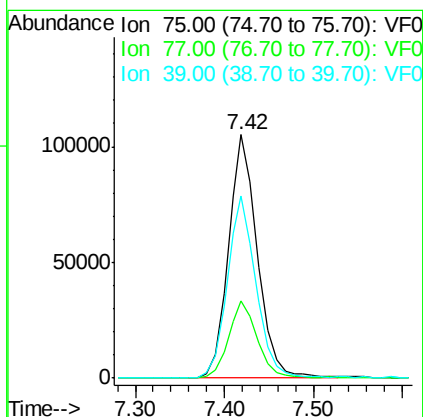
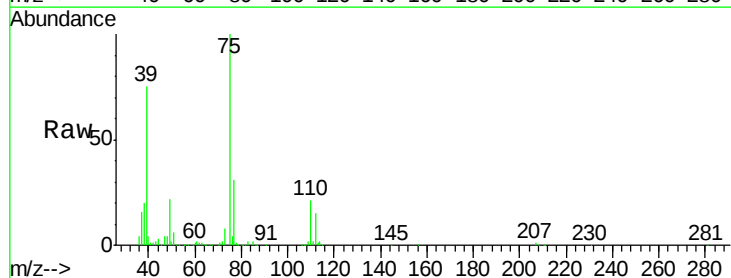
Tgt Ion: 75 Resp: 238580

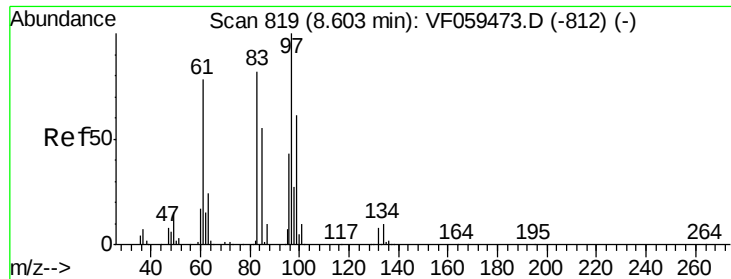
Ion Ratio Lower Upper

75 100

77 31.5 26.2 39.4

39 74.9 64.5 96.7





#55

1,1,2-Trichloroethane

Concen: 46.448 ug/l

RT: 8.60 min Scan# 819

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

Tgt Ion: 97 Resp: 114571

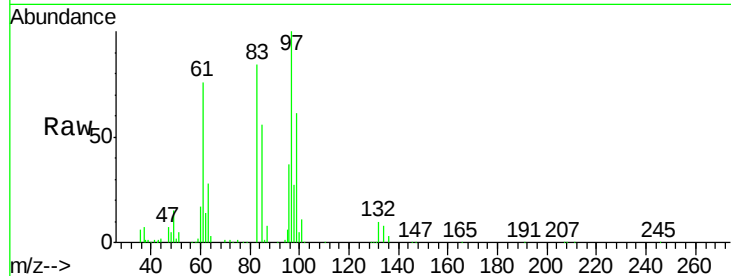
Ion Ratio Lower Upper

97 100

83 83.5 65.7 98.5

85 55.7 43.8 65.6

99 60.9 48.5 72.7

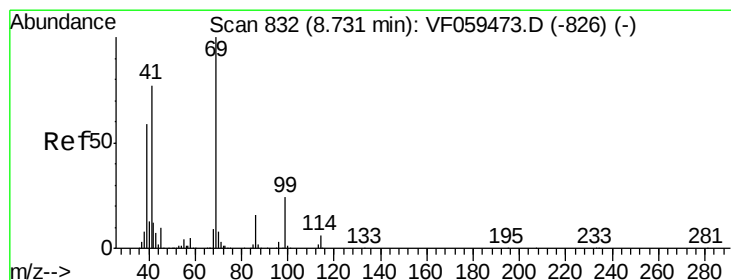
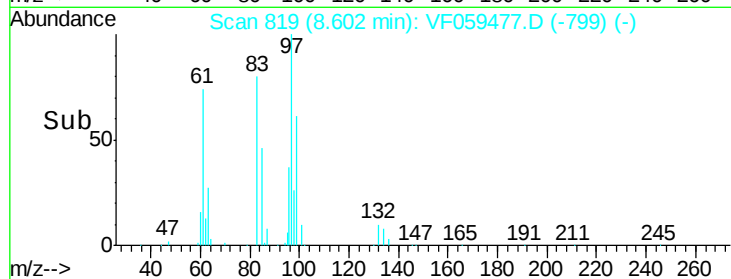
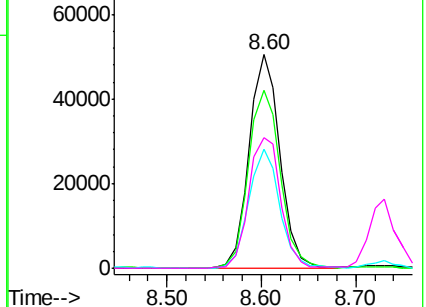


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 52.219 ug/l

RT: 8.73 min Scan# 832

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

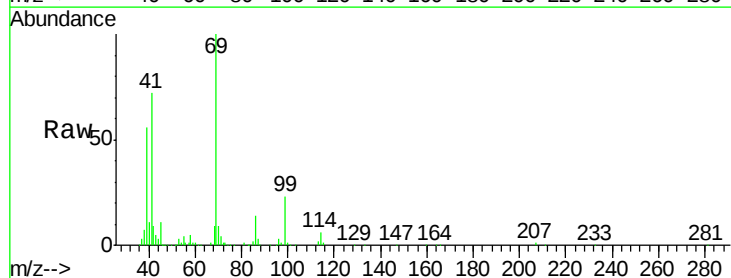
Tgt Ion: 69 Resp: 145714

Ion Ratio Lower Upper

69 100

41 72.1 62.2 93.4

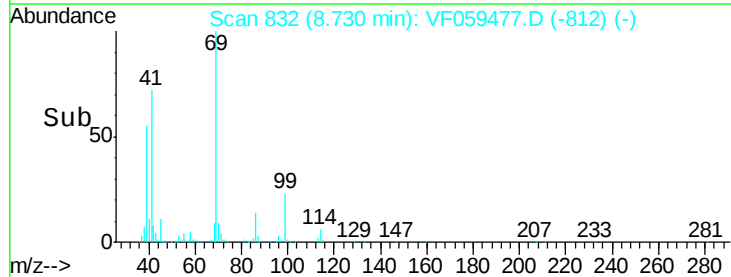
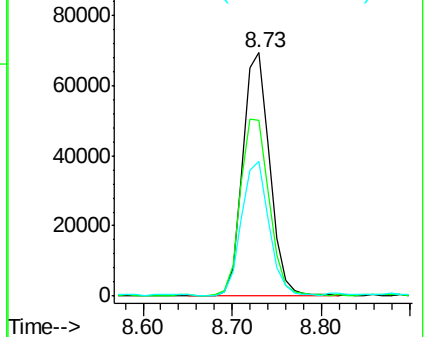
39 55.5 47.7 71.5

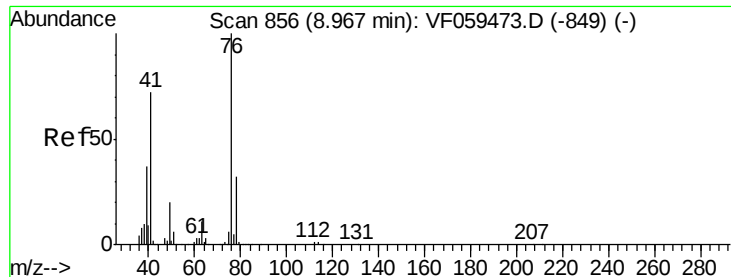


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

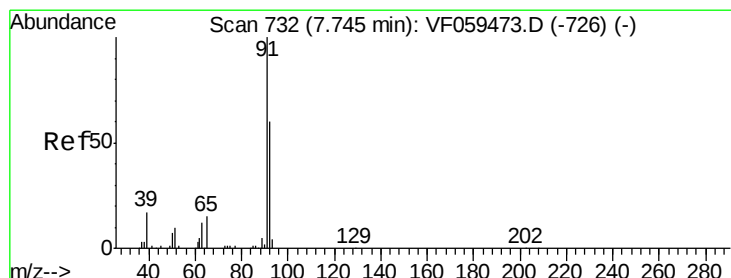
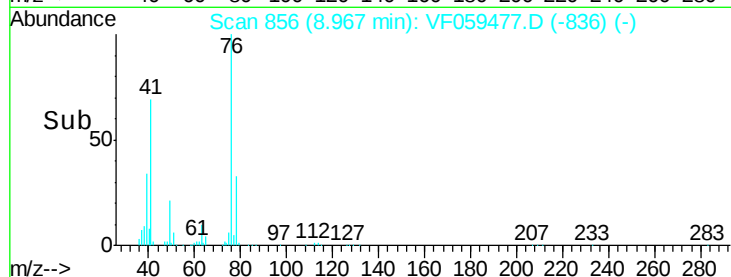
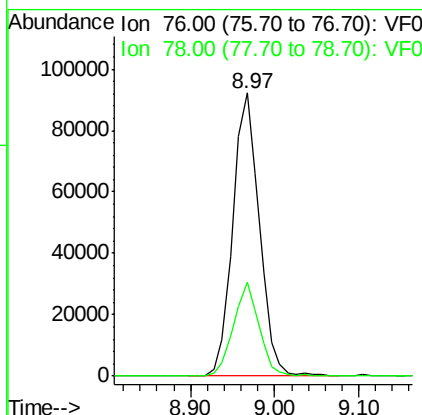
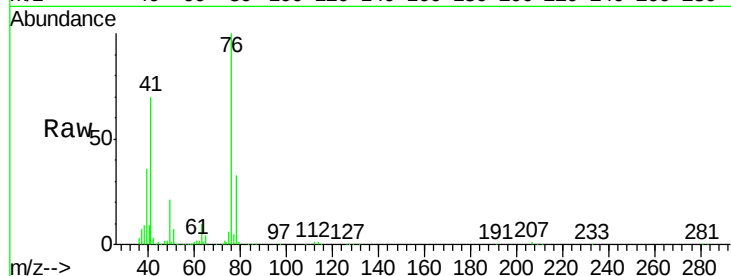




#57  
 1,3-Dichloropropane  
 Concen: 48.008 ug/l  
 RT: 8.97 min Scan# 856  
 Delta R.T. -0.00 min  
 Lab File: VF059477.D  
 Acq: 7 Jul 2018 5:44

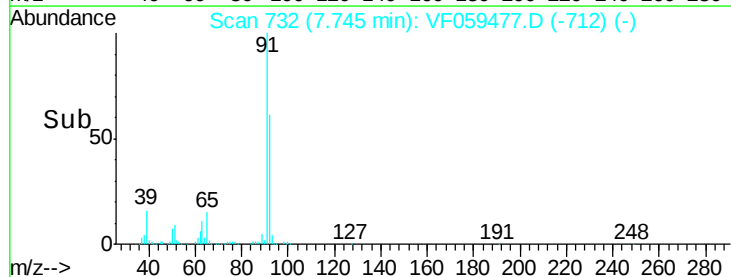
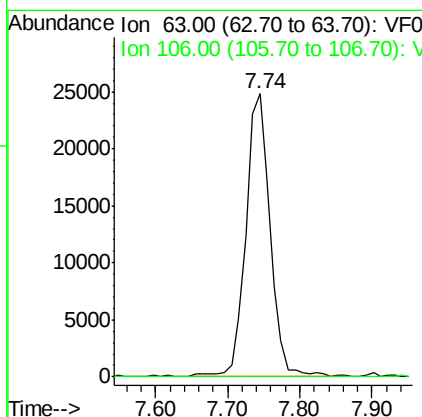
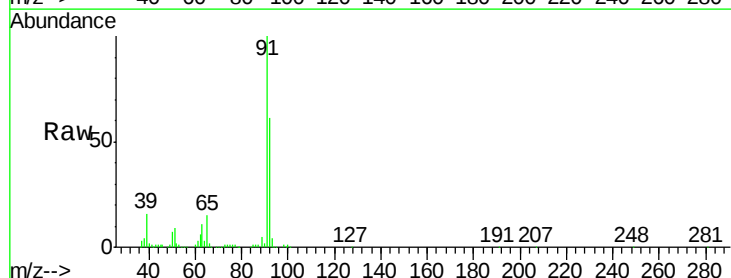
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVF070718

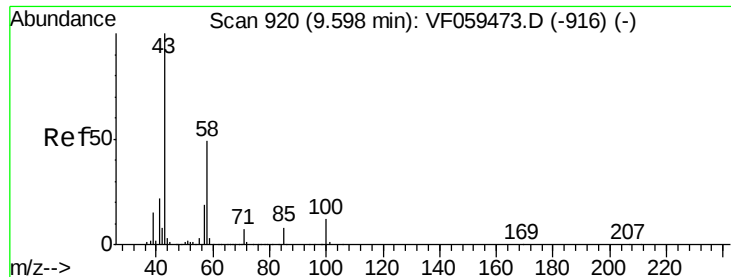
Tgt Ion: 76 Resp: 202283  
 Ion Ratio Lower Upper  
 76 100  
 78 33.3 25.2 37.8



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 220.183 ug/l  
 RT: 7.74 min Scan# 732  
 Delta R.T. -0.00 min  
 Lab File: VF059477.D  
 Acq: 7 Jul 2018 5:44

Tgt Ion: 63 Resp: 58841  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 0.0 0.0

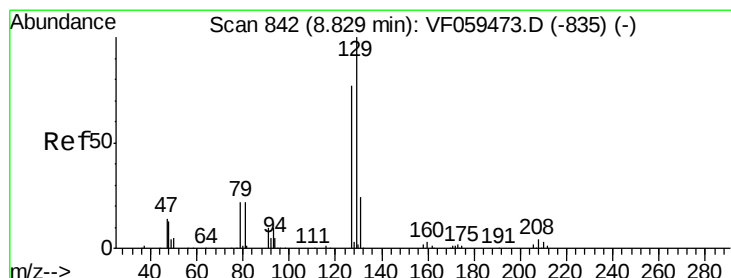
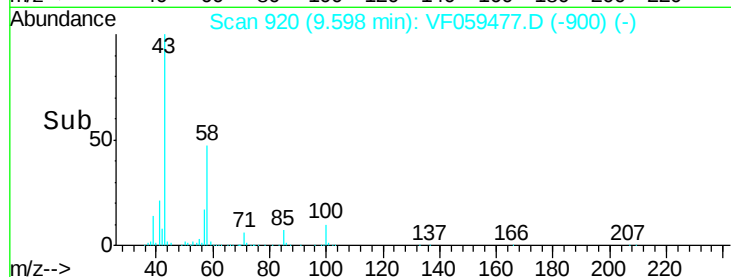
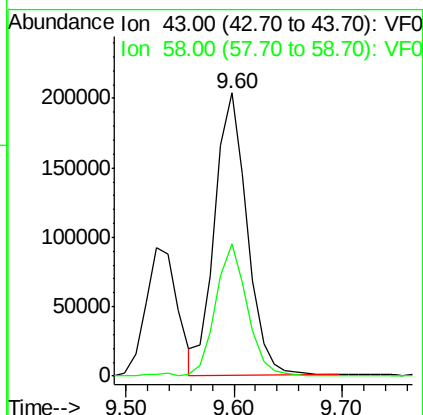
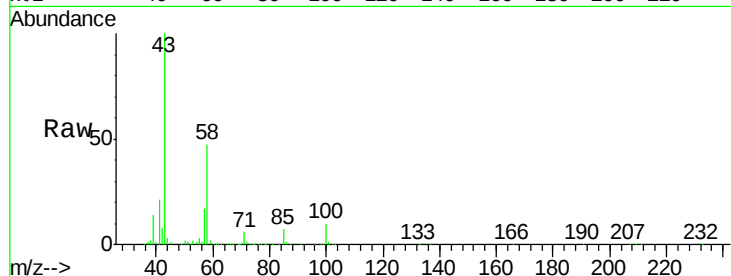




#59  
2-Hexanone  
Concen: 262.983 ug/l  
RT: 9.60 min Scan# 920  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

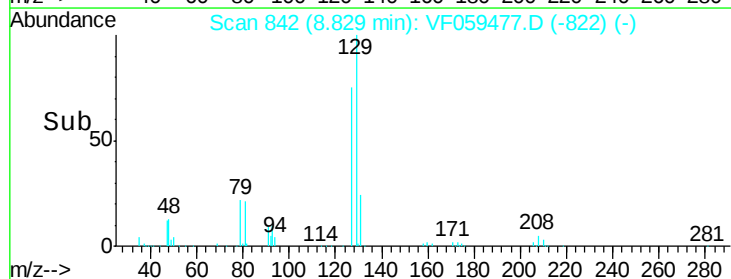
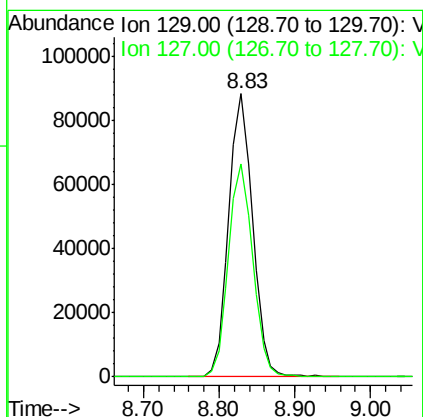
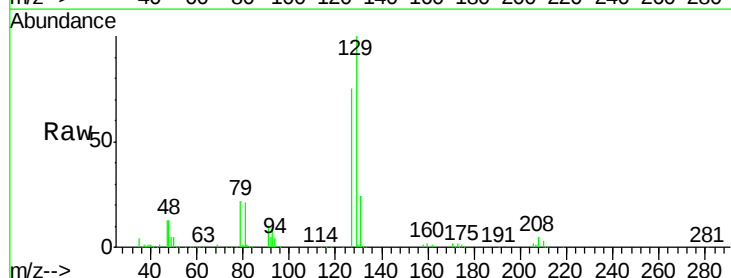
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

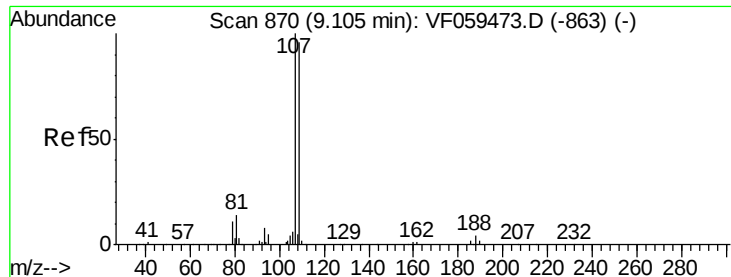
Tgt Ion: 43 Resp: 422678  
Ion Ratio Lower Upper  
43 100  
58 46.6 22.4 67.2



#60  
Dibromochloromethane  
Concen: 47.152 ug/l  
RT: 8.83 min Scan# 842  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Tgt Ion: 129 Resp: 193785  
Ion Ratio Lower Upper  
129 100  
127 75.1 38.8 116.3





#61

1,2-Dibromoethane

Concen: 47.065 ug/l

RT: 9.09 min Scan# 869

Delta R.T. -0.01 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

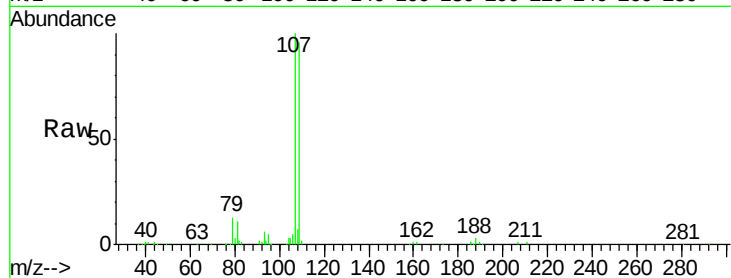
ICVVF070718

Tgt Ion: 107 Resp: 142650

Ion Ratio Lower Upper

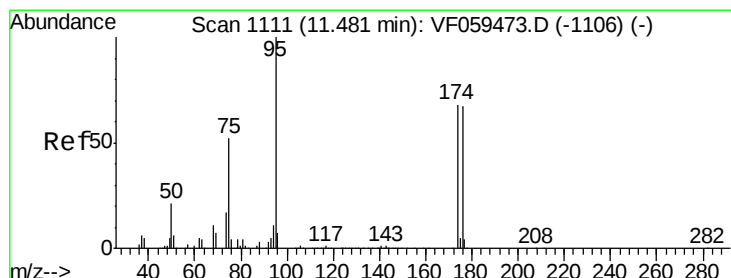
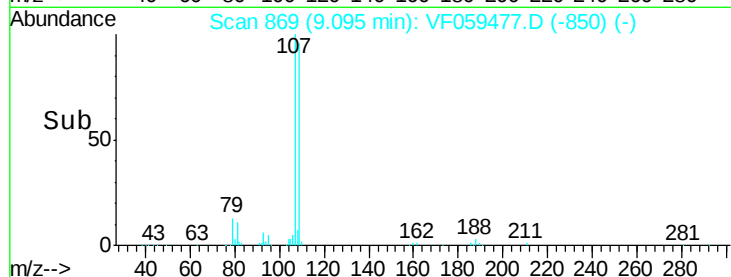
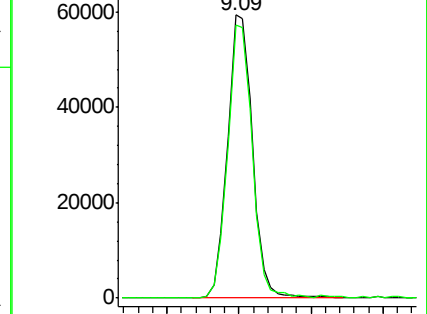
107 100

109 96.3 76.7 115.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 46.176 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

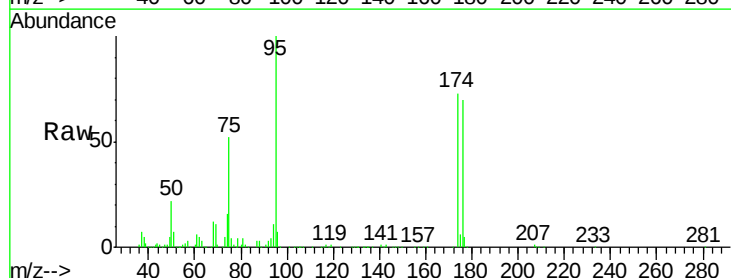
Tgt Ion: 95 Resp: 237804

Ion Ratio Lower Upper

95 100

174 73.5 0.0 137.0

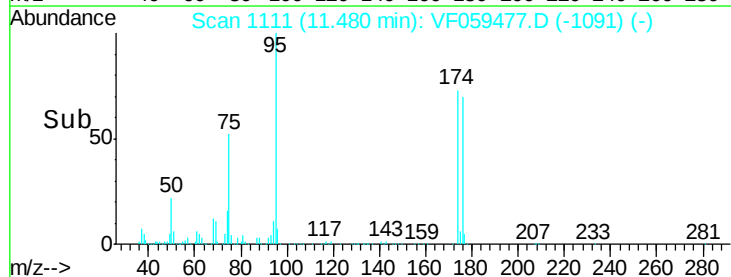
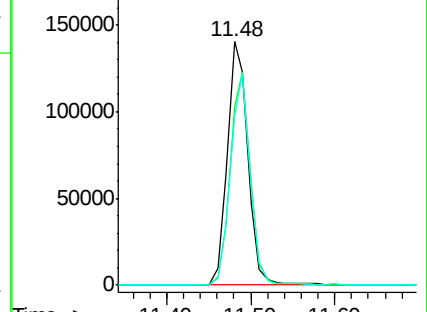
176 69.6 0.0 133.8

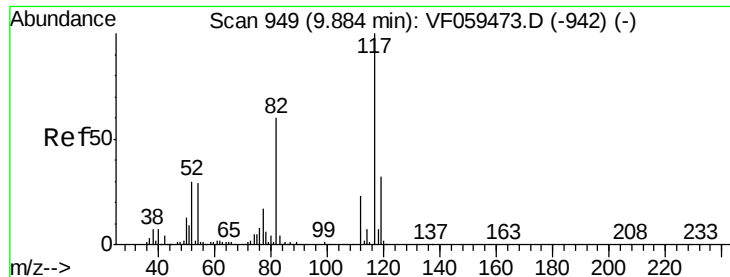


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

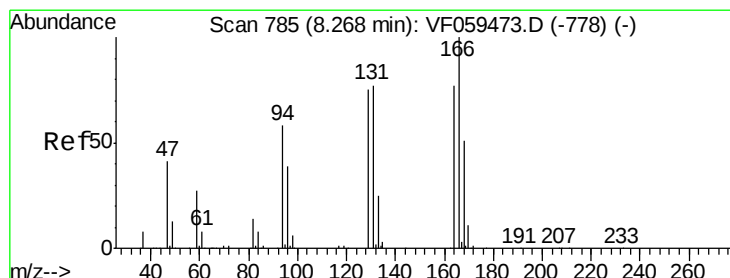
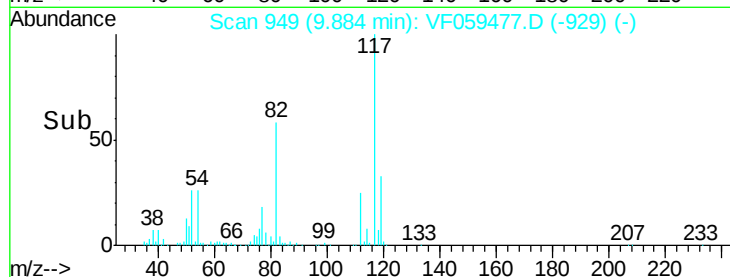
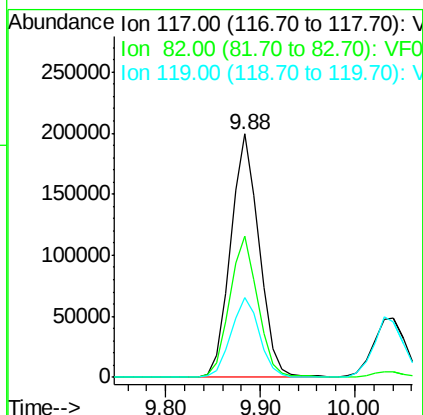
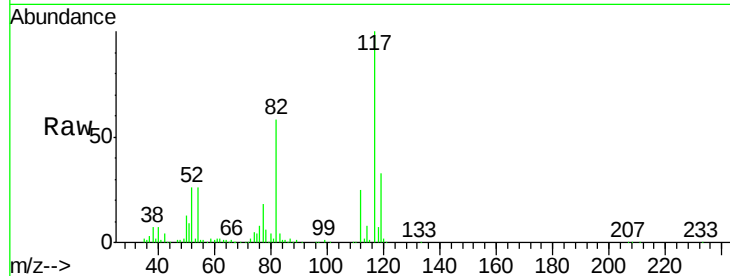




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.88 min Scan# 949  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

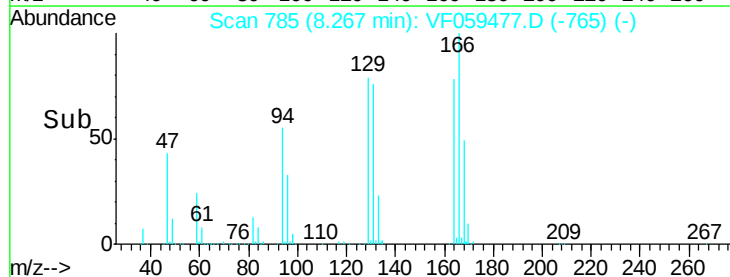
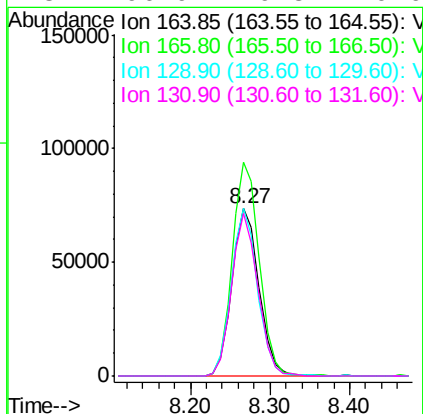
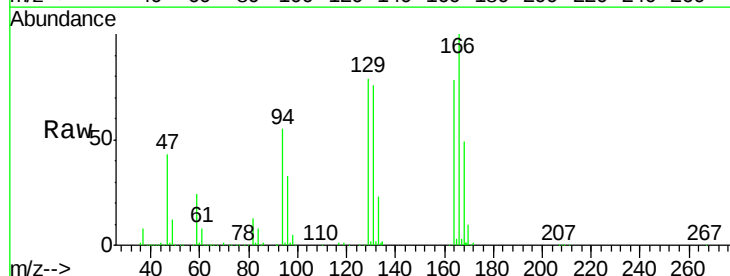
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

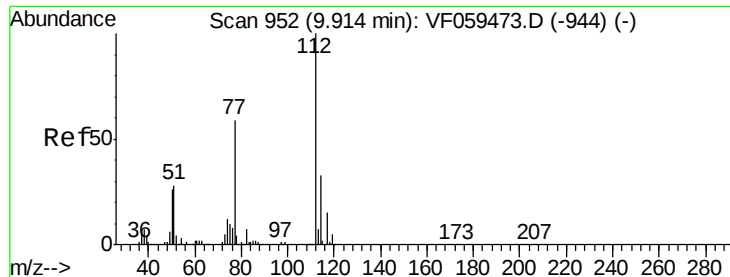
Tgt Ion:117 Resp: 416353  
Ion Ratio Lower Upper  
117 100  
82 57.9 48.2 72.4  
119 32.5 25.7 38.5



#64  
Tetrachloroethene  
Concen: 50.202 ug/l  
RT: 8.27 min Scan# 785  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Tgt Ion:164 Resp: 175068  
Ion Ratio Lower Upper  
164 100  
166 127.6 103.5 155.3  
129 100.5 77.6 116.4  
131 96.9 79.8 119.6

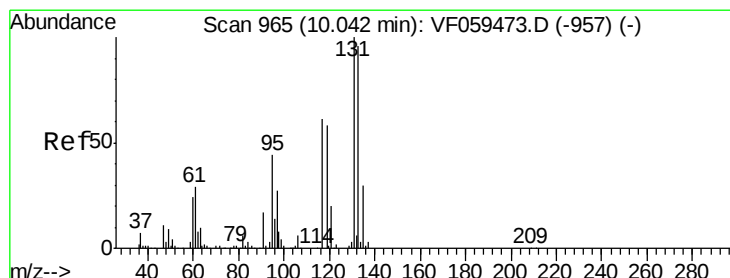
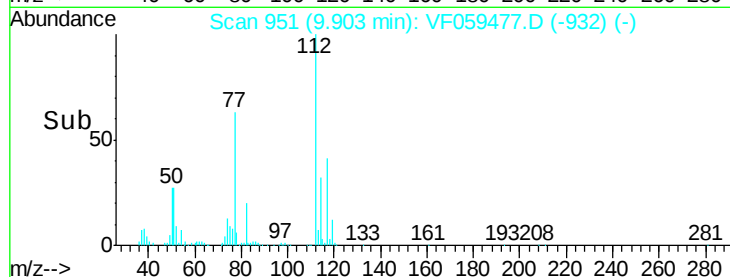
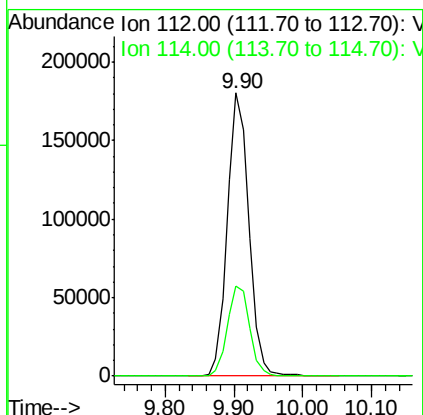
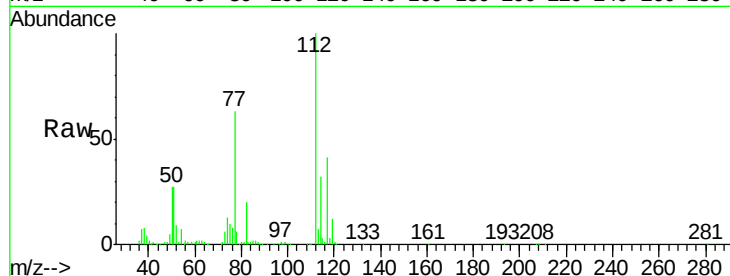




#65  
Chlorobenzene  
Concen: 48.345 ug/l  
RT: 9.90 min Scan# 951  
Delta R.T. -0.01 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

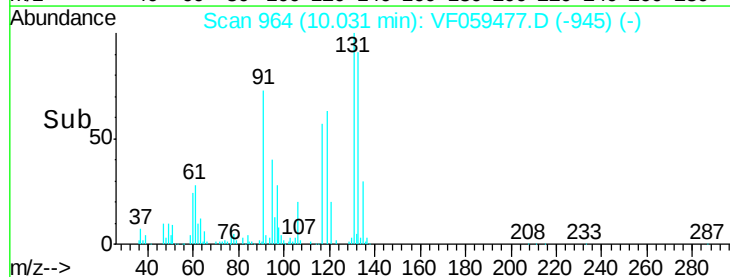
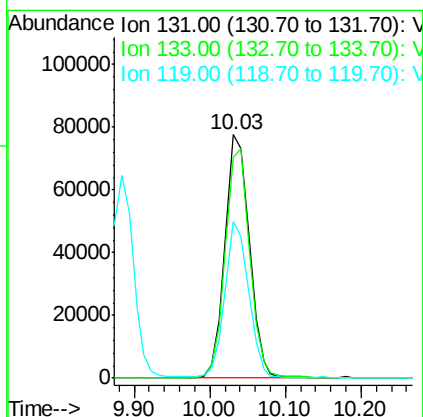
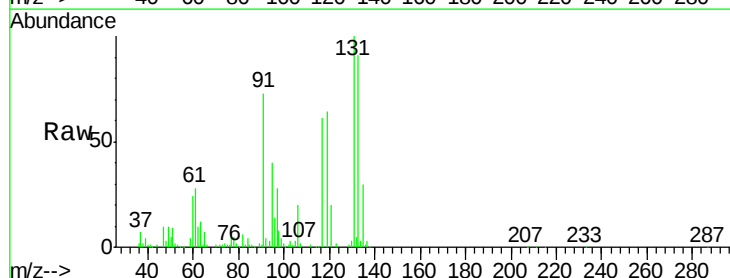
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

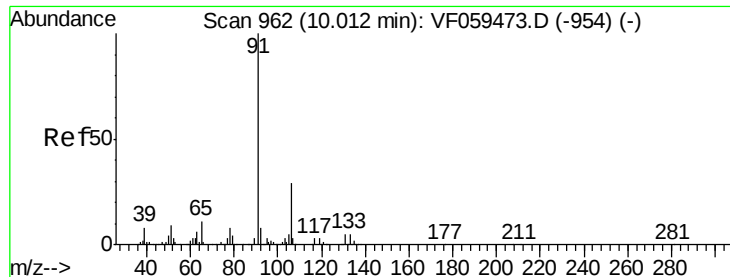
Tgt Ion:112 Resp: 392251  
Ion Ratio Lower Upper  
112 100  
114 32.0 26.2 39.2



#66  
1,1,1,2-Tetrachloroethane  
Concen: 46.687 ug/l  
RT: 10.03 min Scan# 964  
Delta R.T. -0.01 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Tgt Ion:131 Resp: 174516  
Ion Ratio Lower Upper  
131 100  
133 90.9 48.1 144.3  
119 64.3 29.3 87.8





#67

Ethyl Benzene

Concen: 49.067 ug/l

RT: 10.00 min Scan# 961

Delta R.T. -0.01 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

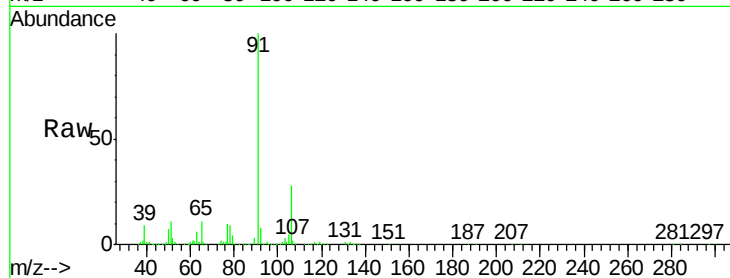
ICVVF070718

Tgt Ion: 91 Resp: 692200

Ion Ratio Lower Upper

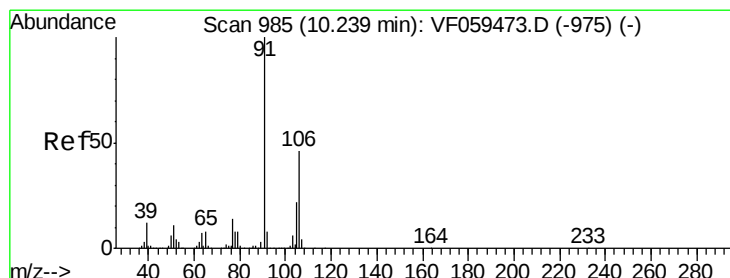
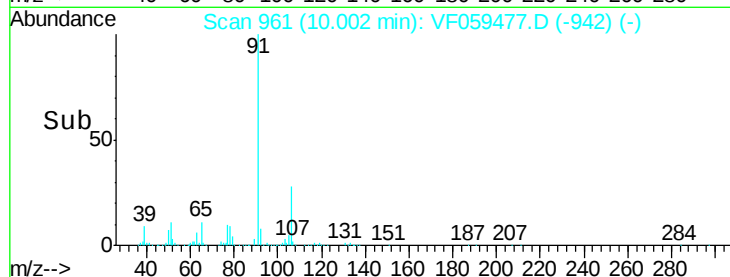
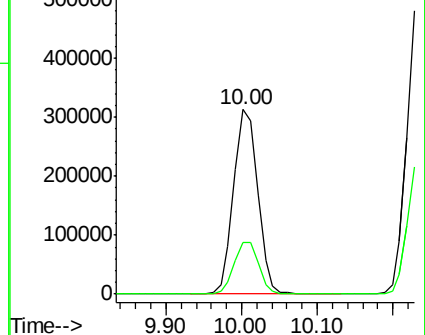
91 100

106 28.2 23.0 34.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 98.845 ug/l

RT: 10.24 min Scan# 985

Delta R.T. -0.00 min

Lab File: VF059477.D

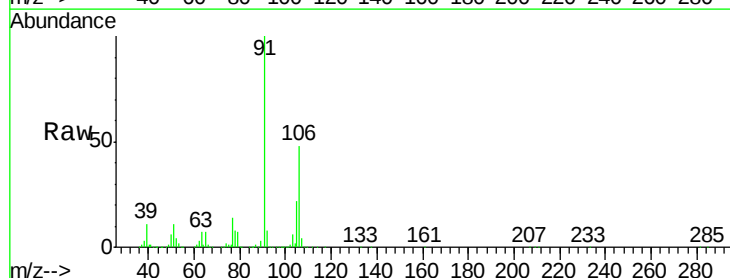
Acq: 7 Jul 2018 5:44

Tgt Ion: 106 Resp: 491412

Ion Ratio Lower Upper

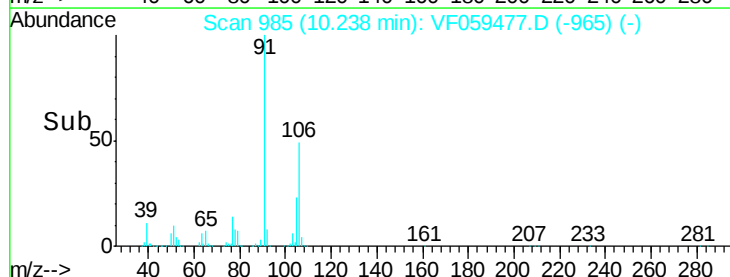
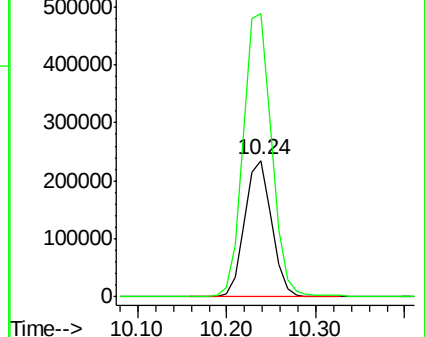
106 100

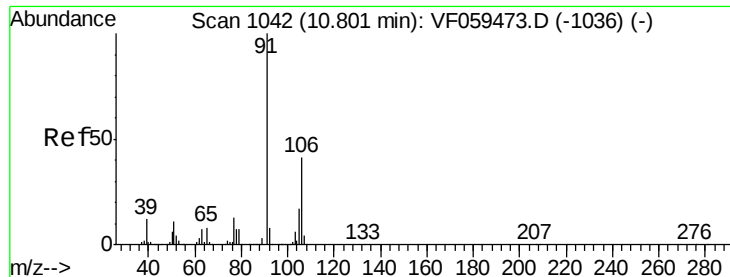
91 207.0 173.5 260.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

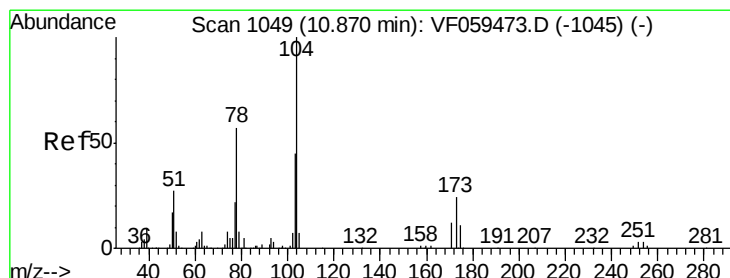
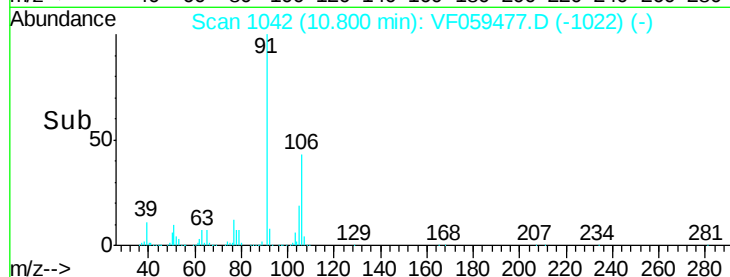
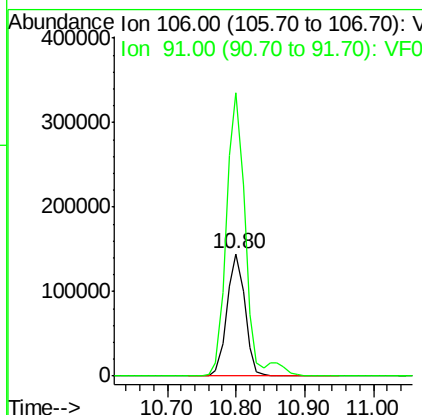
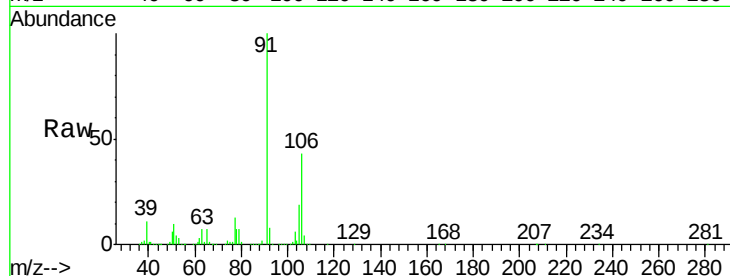




#69  
o-Xylene  
Concen: 49.397 ug/l  
RT: 10.80 min Scan# 1042  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

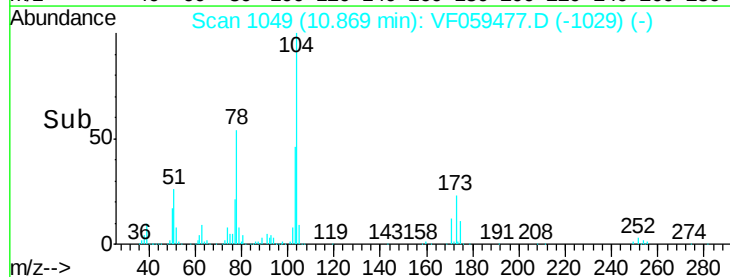
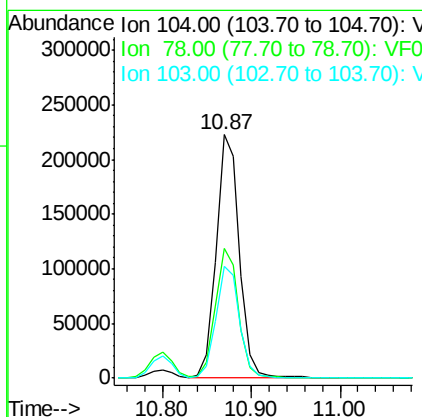
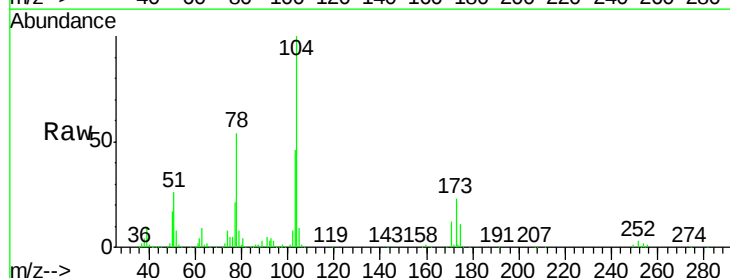
Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

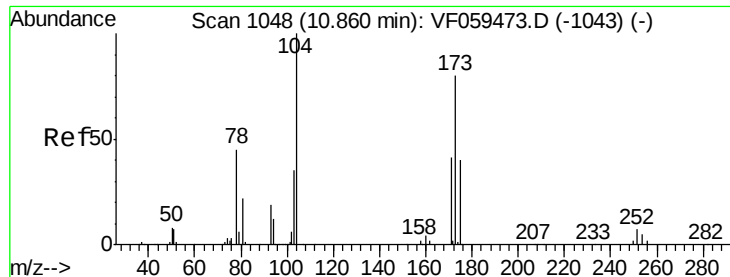
Tgt Ion:106 Resp: 264334  
Ion Ratio Lower Upper  
106 100  
91 230.7 121.8 365.3



#70  
Styrene  
Concen: 48.311 ug/l  
RT: 10.87 min Scan# 1049  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Tgt Ion:104 Resp: 402886  
Ion Ratio Lower Upper  
104 100  
78 53.5 46.2 69.2  
103 46.1 36.8 55.2





#71

Bromoform

Concen: 47.367 ug/l

RT: 10.86 min Scan# 1048

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

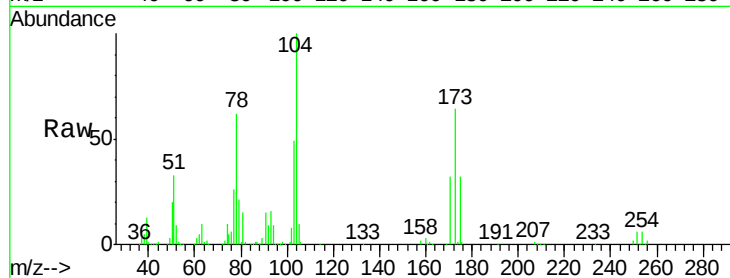
Tgt Ion:173 Resp: 121956

Ion Ratio Lower Upper

173 100

175 48.9 24.9 74.8

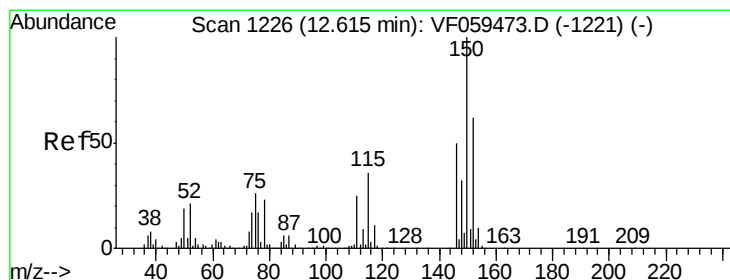
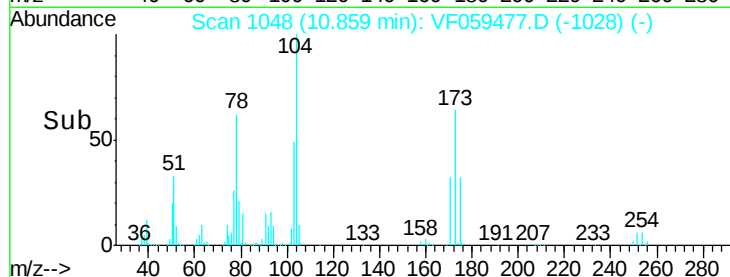
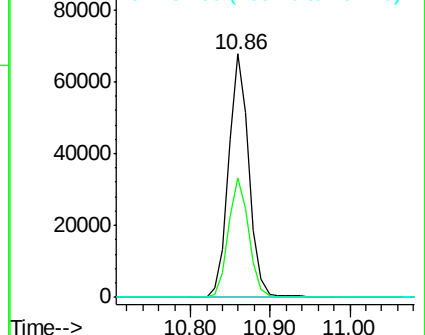
254 0.2 0.0 0.0#



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: 12.61 min Scan# 1226

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

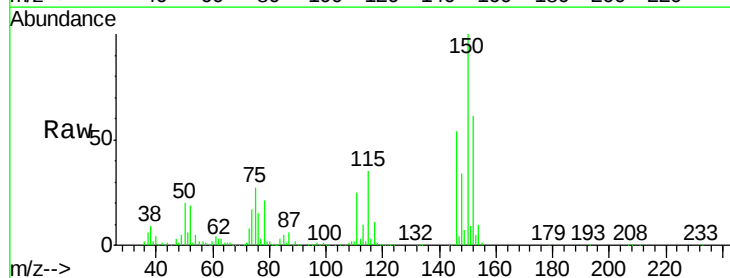
Tgt Ion:152 Resp: 236733

Ion Ratio Lower Upper

152 100

115 57.1 28.7 86.3

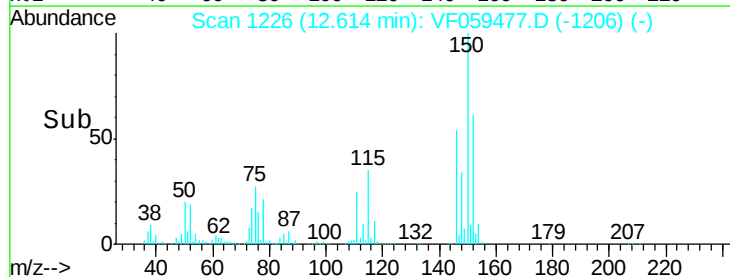
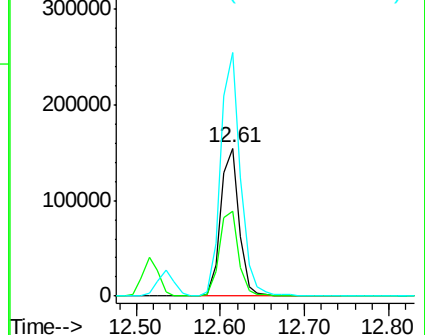
150 164.9 0.0 323.8

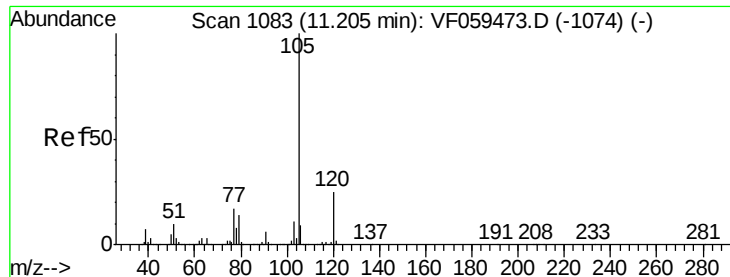


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 53.658 ug/l

RT: 11.20 min Scan# 1083

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

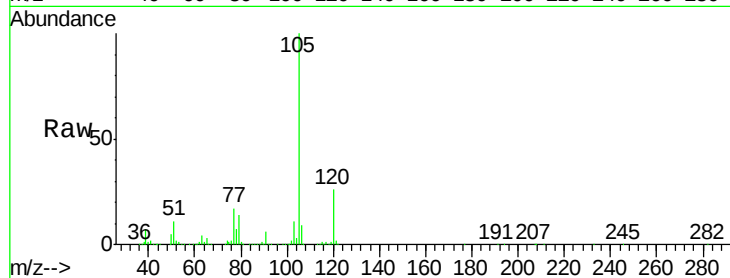
ICVVF070718

Tgt Ion: 105 Resp: 772127

Ion Ratio Lower Upper

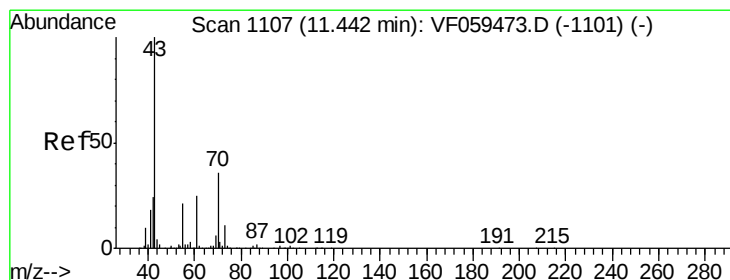
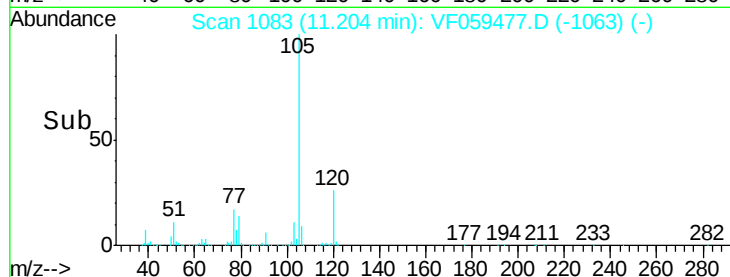
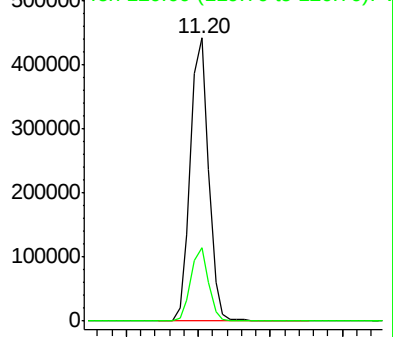
105 100

120 25.8 12.4 37.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 60.306 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Tgt Ion: 43 Resp: 264907

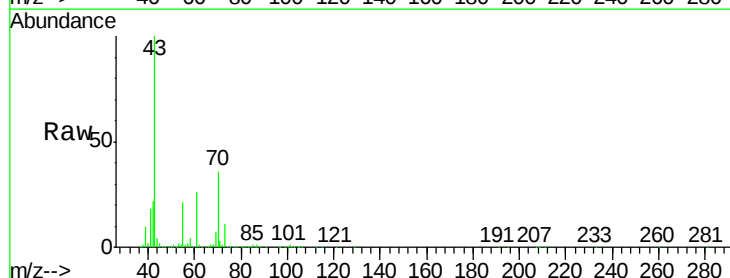
Ion Ratio Lower Upper

43 100

70 36.2 28.7 43.1

55 21.1 16.6 24.8

61 25.9 20.1 30.1

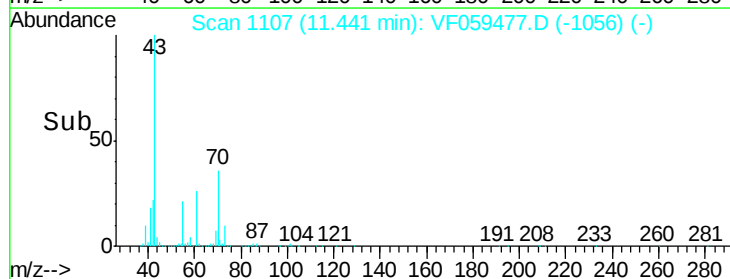
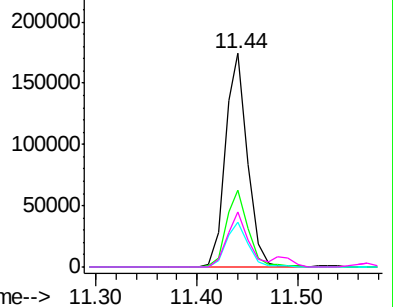


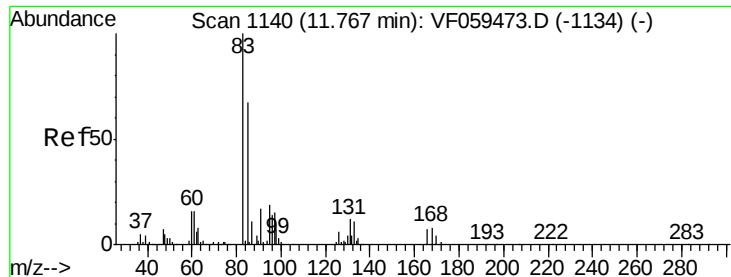
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 51.304 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

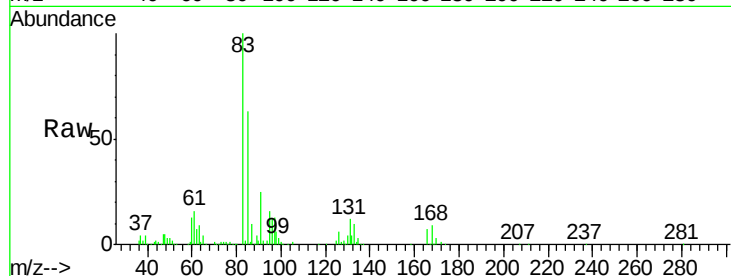
Tgt Ion: 83 Resp: 167802

Ion Ratio Lower Upper

83 100

131 12.1 6.0 18.0

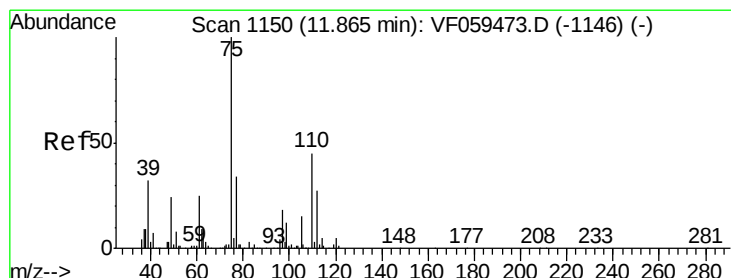
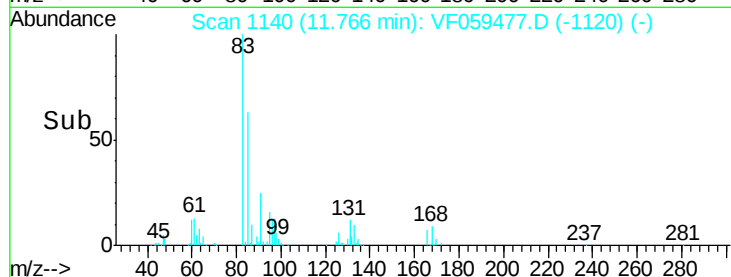
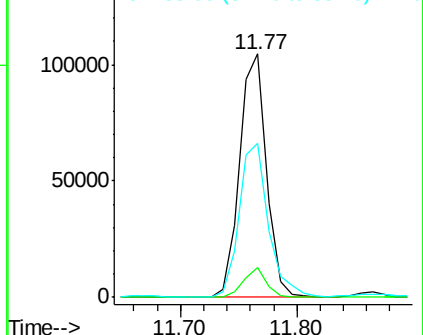
85 63.1 33.7 101.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 50.279 ug/l

RT: 11.86 min Scan# 1150

Delta R.T. -0.00 min

Lab File: VF059477.D

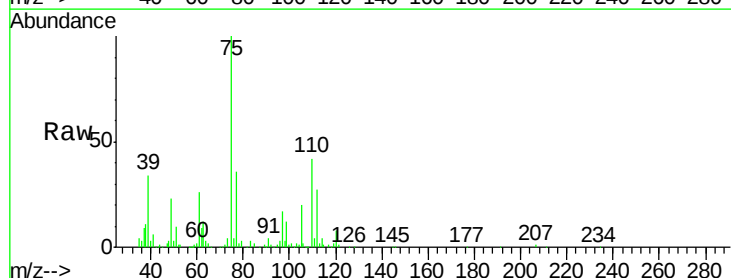
Acq: 7 Jul 2018 5:44

Tgt Ion: 75 Resp: 133892

Ion Ratio Lower Upper

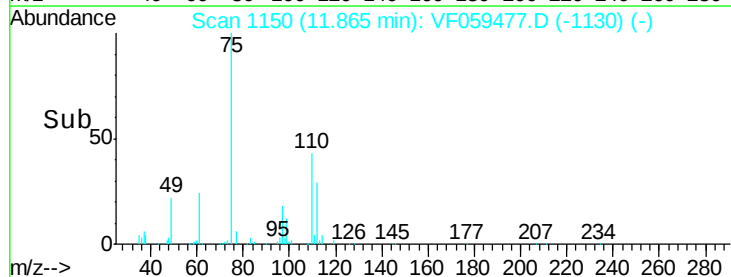
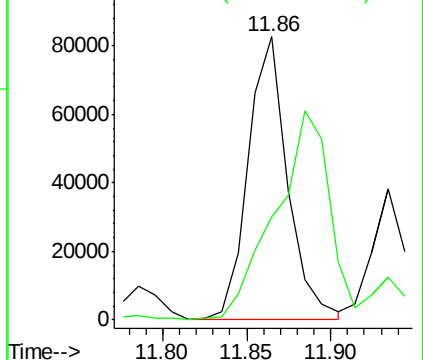
75 100

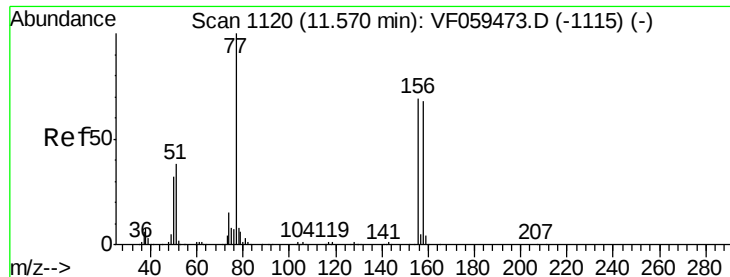
77 36.3 16.9 50.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 50.692 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

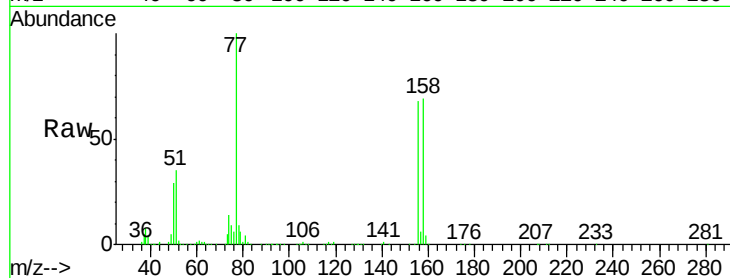
Tgt Ion: 156 Resp: 201830

Ion Ratio Lower Upper

156 100

77 146.2 72.4 217.2

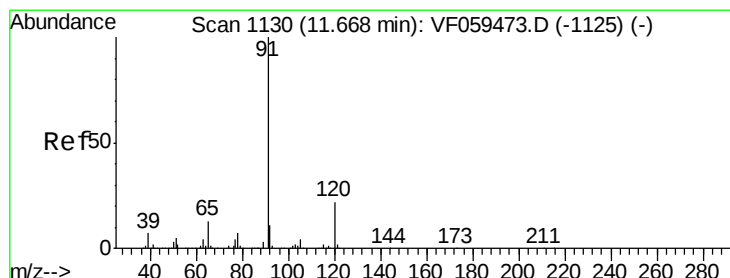
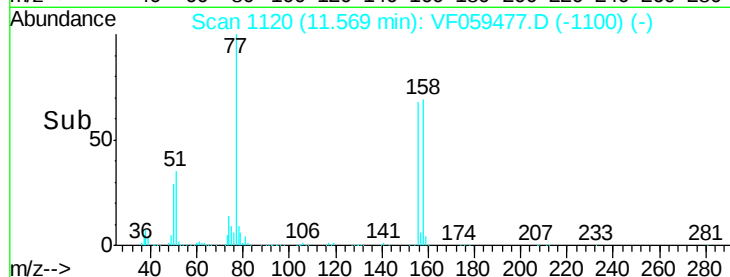
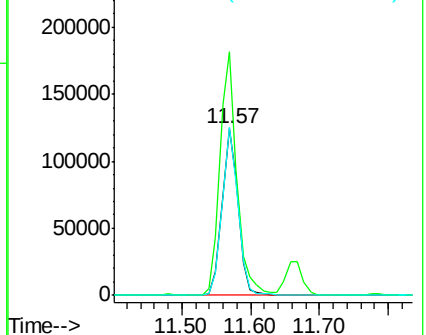
158 101.1 49.5 148.3



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 50.886 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VF059477.D

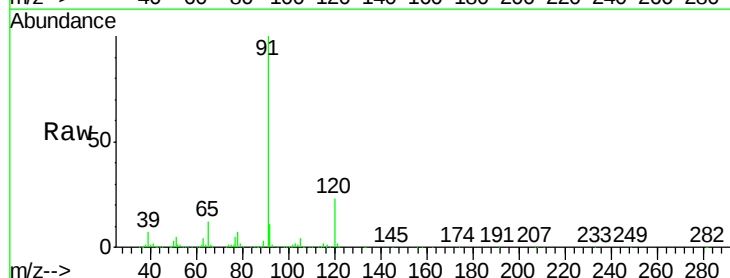
Acq: 7 Jul 2018 5:44

Tgt Ion: 91 Resp: 879279

Ion Ratio Lower Upper

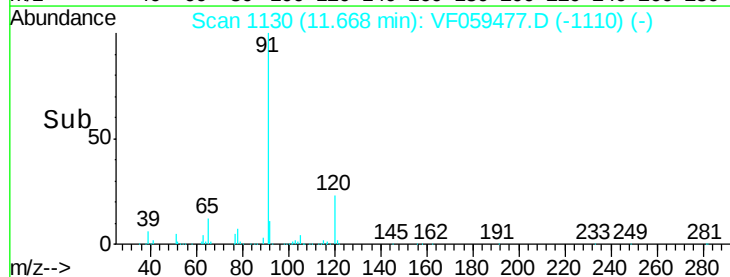
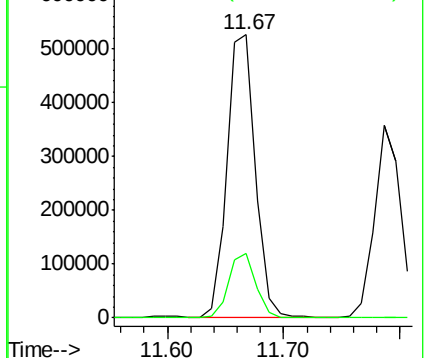
91 100

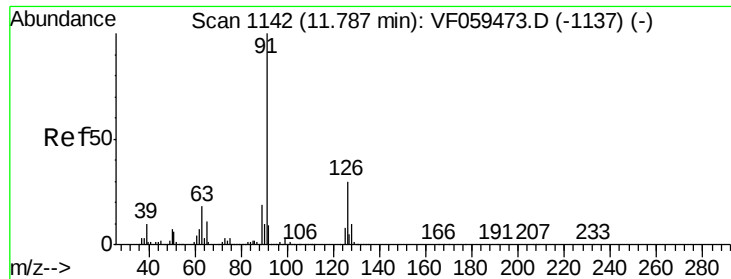
120 22.9 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 51.662 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

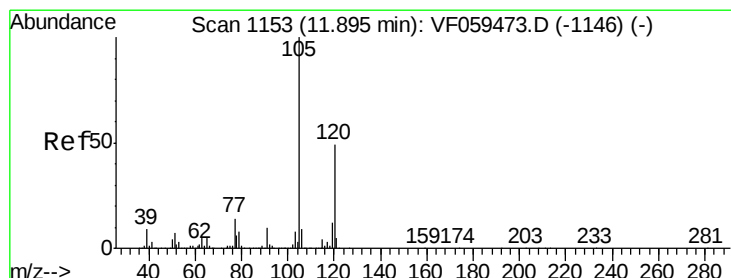
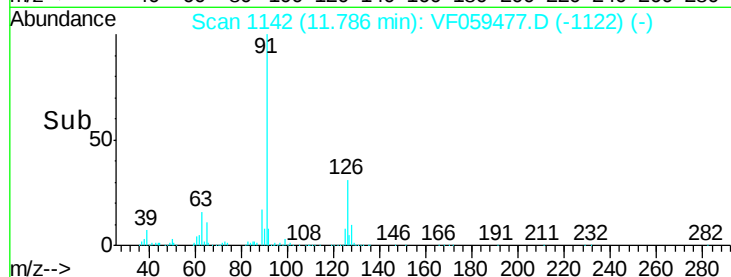
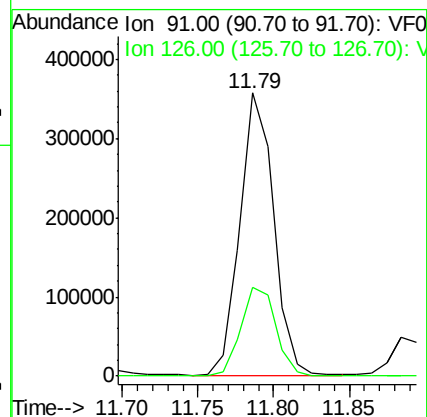
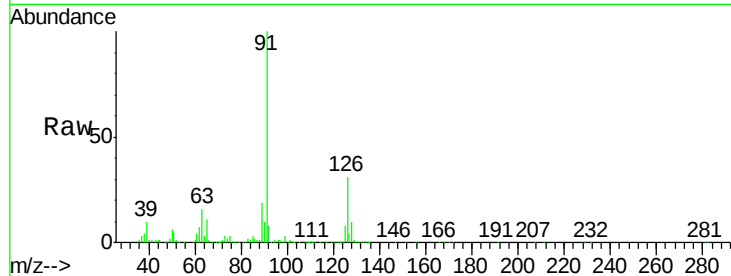
ICVVF070718

Tgt Ion: 91 Resp: 552324

Ion Ratio Lower Upper

91 100

126 31.3 15.2 45.5



#80

1,3,5-Trimethylbenzene

Concen: 53.794 ug/l

RT: 11.88 min Scan# 1152

Delta R.T. -0.01 min

Lab File: VF059477.D

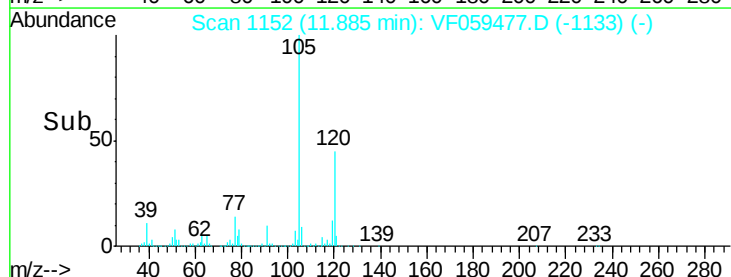
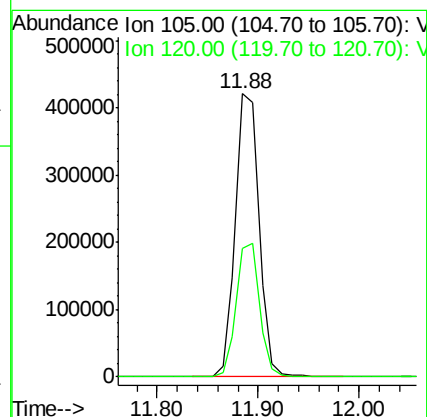
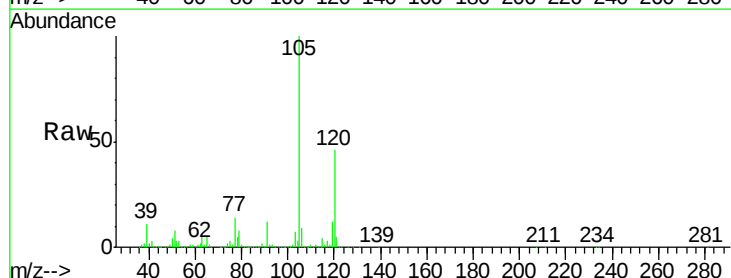
Acq: 7 Jul 2018 5:44

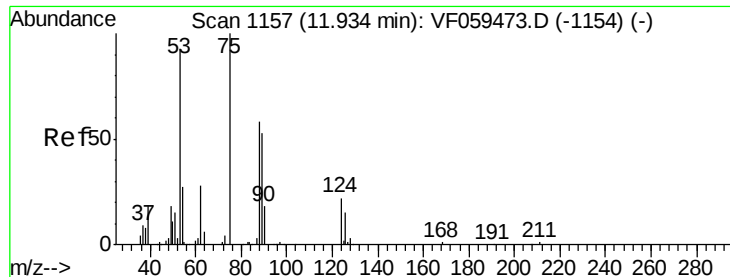
Tgt Ion: 105 Resp: 685945

Ion Ratio Lower Upper

105 100

120 45.6 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 51.371 ug/l

RT: 11.93 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

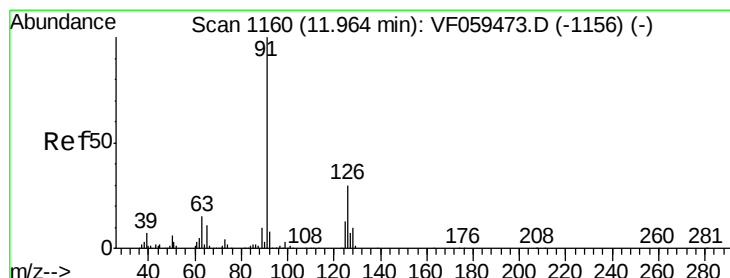
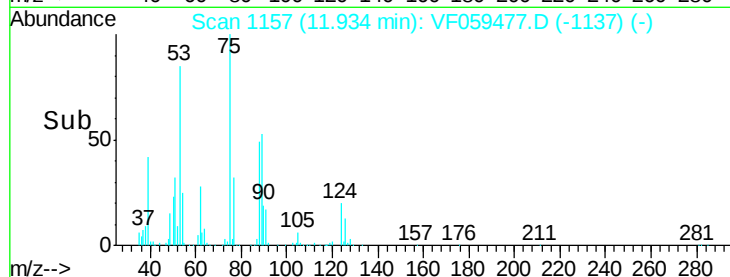
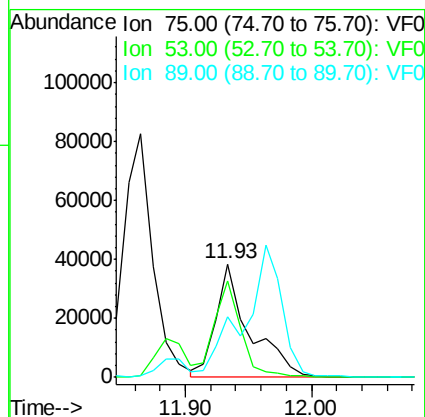
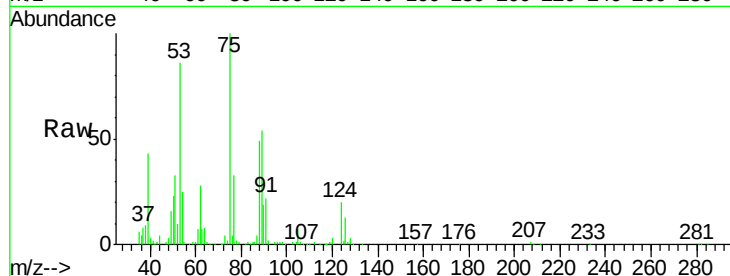
Tgt Ion: 75 Resp: 70966

Ion Ratio Lower Upper

75 100

53 85.7 79.0 118.6

89 54.0 45.9 68.9



#82

4-Chlorotoluene

Concen: 50.825 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. -0.00 min

Lab File: VF059477.D

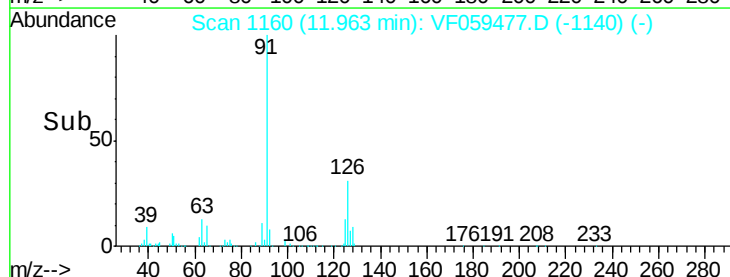
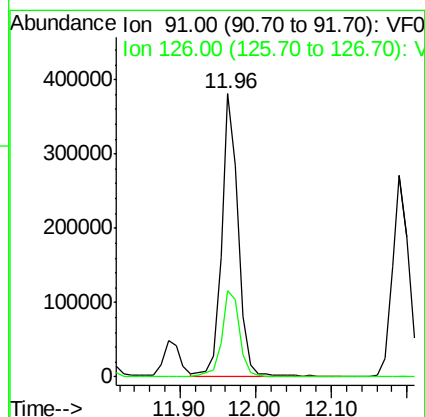
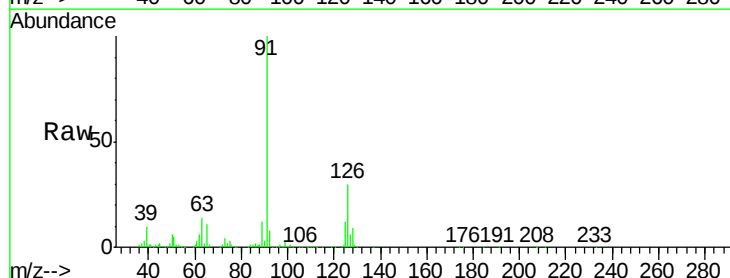
Acq: 7 Jul 2018 5:44

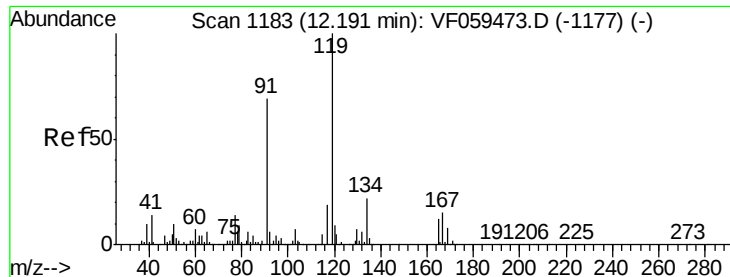
Tgt Ion: 91 Resp: 575883

Ion Ratio Lower Upper

91 100

126 30.5 14.9 44.5

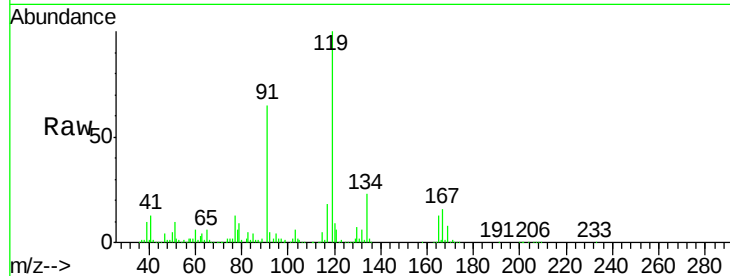




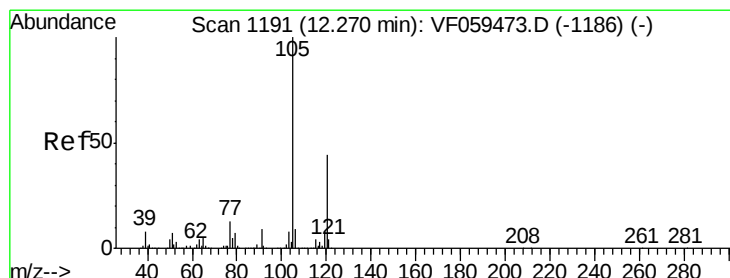
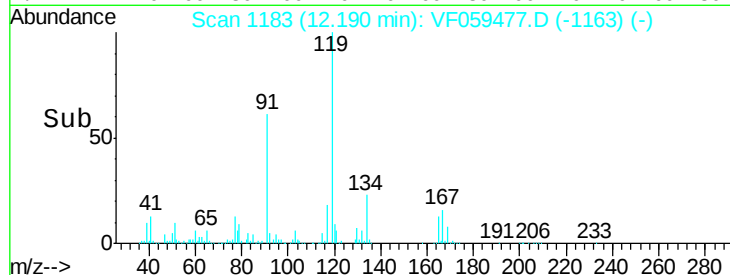
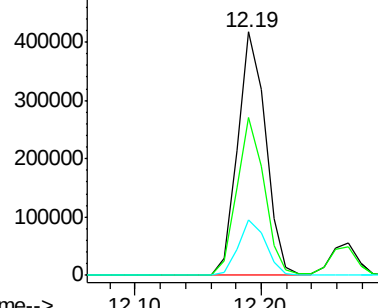
#83  
tert-Butylbenzene  
Concen: 52.438 ug/l  
RT: 12.19 min Scan# 1183  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

Tgt Ion:119 Resp: 650314  
Ion Ratio Lower Upper  
119 100  
91 65.1 34.4 103.3  
134 22.7 10.8 32.4

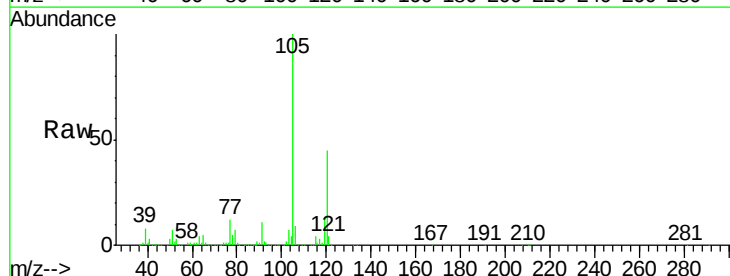


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): VF0  
Ion 134.00 (133.70 to 134.70): V

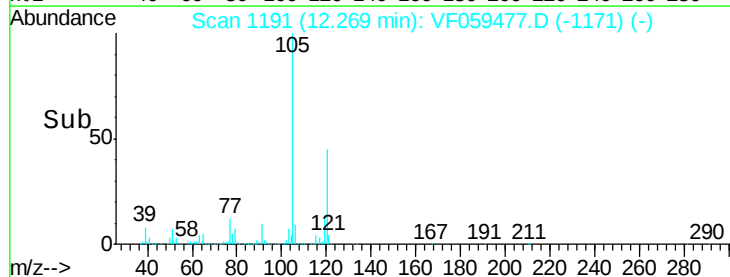
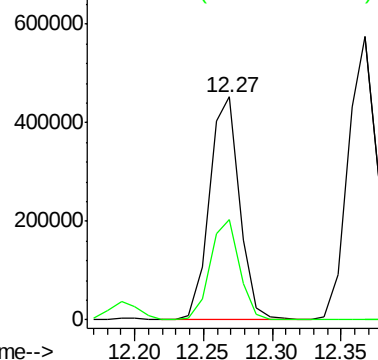


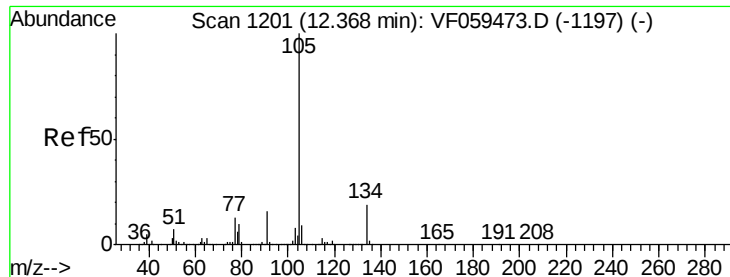
#84  
1,2,4-Trimethylbenzene  
Concen: 51.490 ug/l  
RT: 12.27 min Scan# 1191  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Tgt Ion:105 Resp: 690434  
Ion Ratio Lower Upper  
105 100  
120 45.2 22.1 66.1



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V

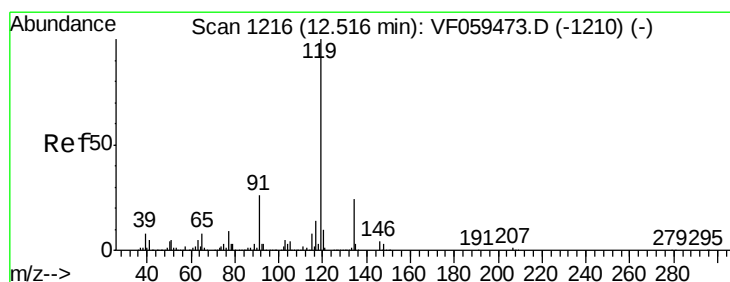
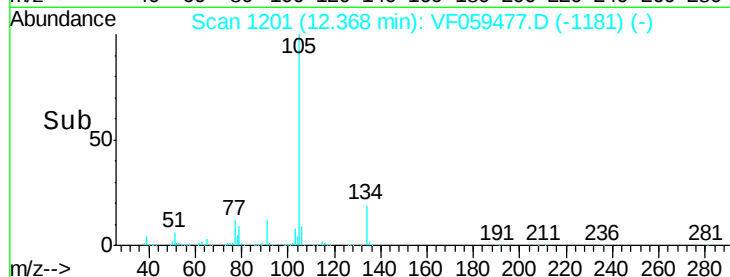
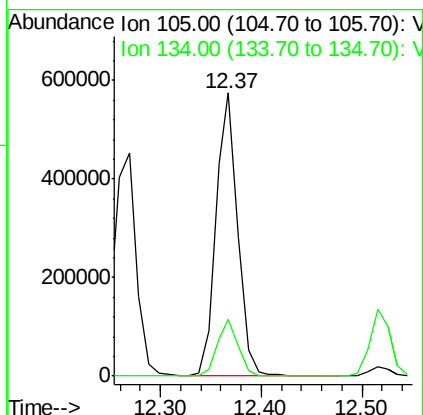
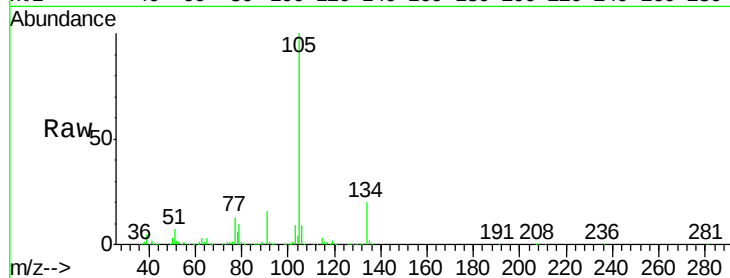




#85  
 sec-Butylbenzene  
 Concen: 51.221 ug/l  
 RT: 12.37 min Scan# 1201  
 Delta R.T. -0.00 min  
 Lab File: VF059477.D  
 Acq: 7 Jul 2018 5:44

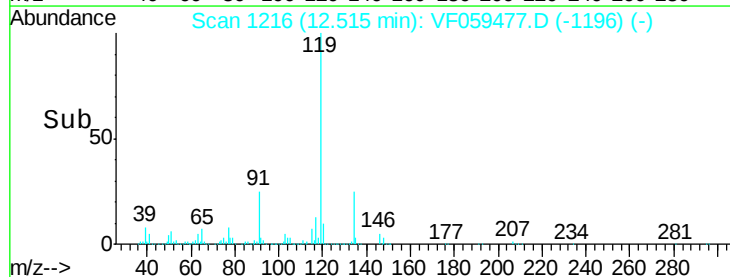
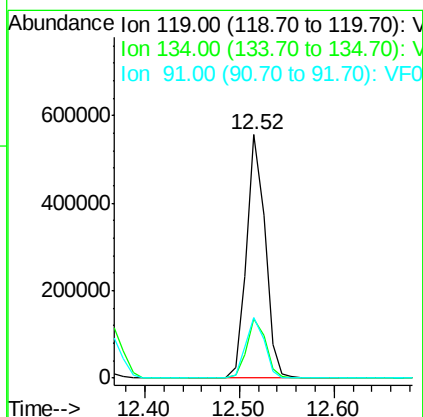
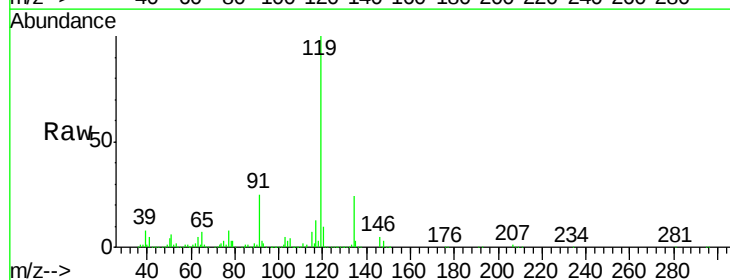
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVF070718

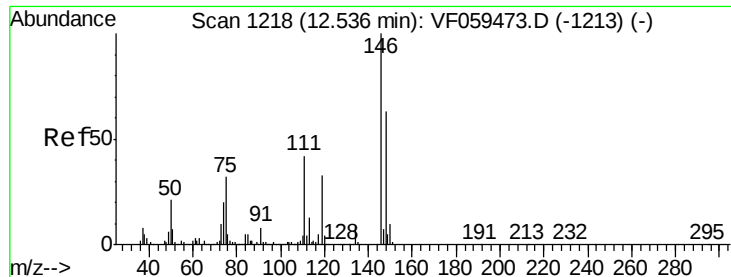
Tgt Ion:105 Resp: 857320  
 Ion Ratio Lower Upper  
 105 100  
 134 20.0 9.6 28.6



#86  
 p-Isopropyltoluene  
 Concen: 53.095 ug/l  
 RT: 12.52 min Scan# 1216  
 Delta R.T. -0.00 min  
 Lab File: VF059477.D  
 Acq: 7 Jul 2018 5:44

Tgt Ion:119 Resp: 760061  
 Ion Ratio Lower Upper  
 119 100  
 134 24.5 12.2 36.4  
 91 24.9 13.1 39.3





#87

1,3-Dichlorobenzene

Concen: 48.309 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

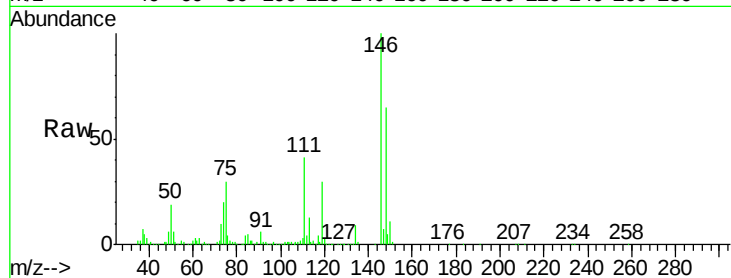
Tgt Ion:146 Resp: 364391

Ion Ratio Lower Upper

146 100

111 40.7 21.0 63.0

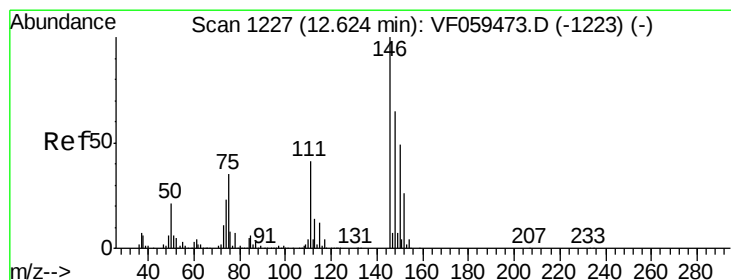
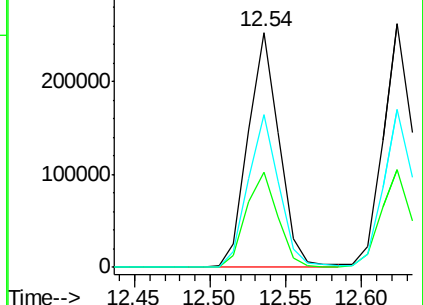
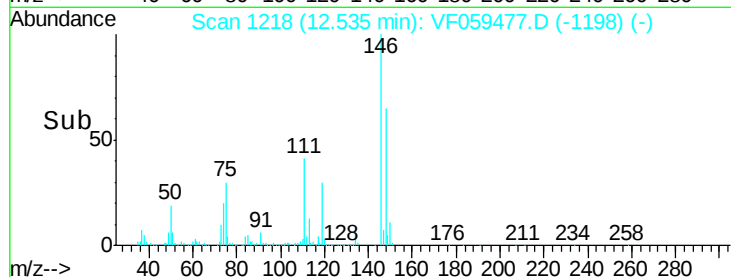
148 65.0 31.6 94.8



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: 49.296 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

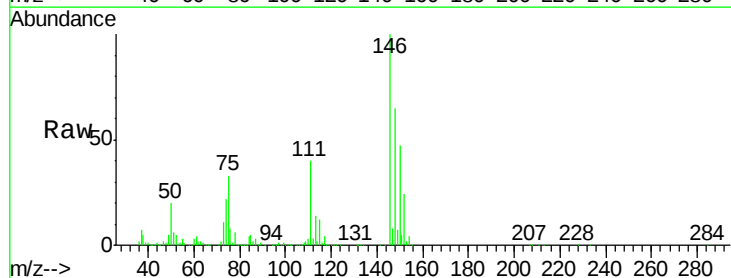
Tgt Ion:146 Resp: 362063

Ion Ratio Lower Upper

146 100

111 40.2 20.8 62.2

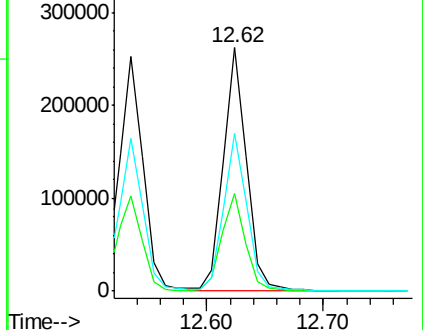
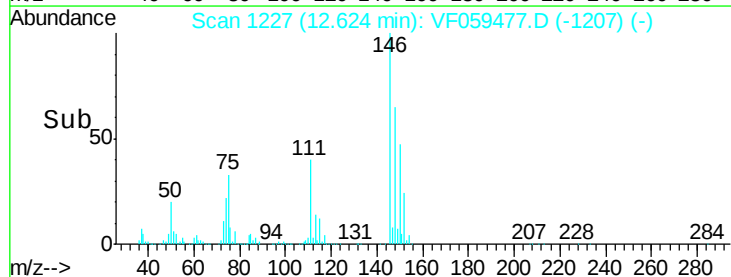
148 64.6 32.6 97.8

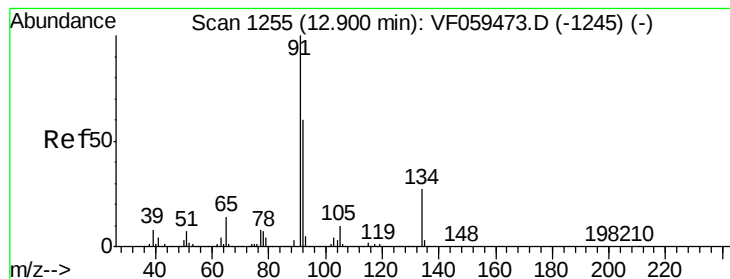


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 51.304 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

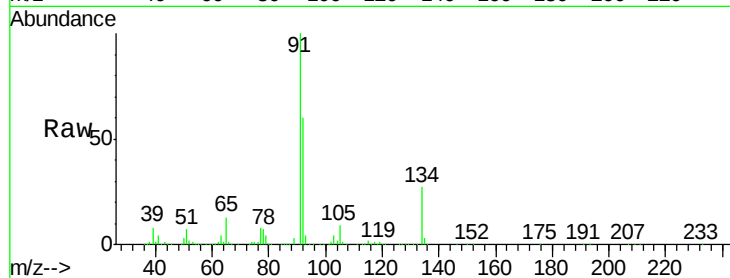
Tgt Ion: 91 Resp: 715517

Ion Ratio Lower Upper

91 100

92 60.5 30.0 90.1

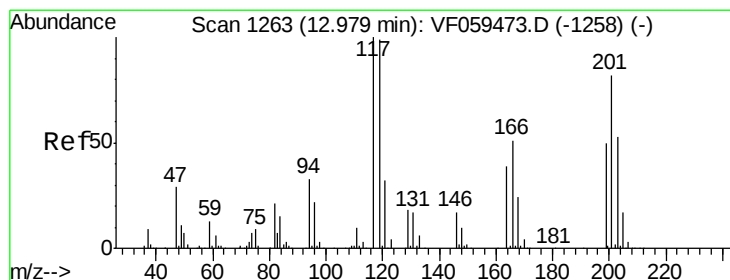
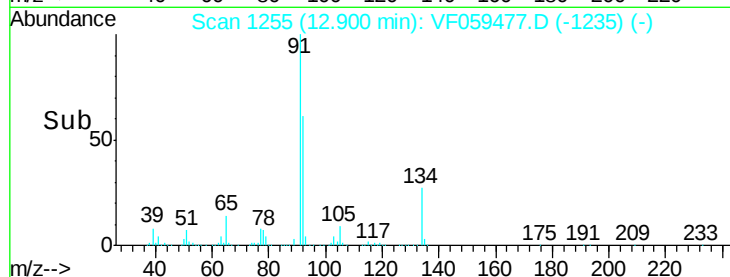
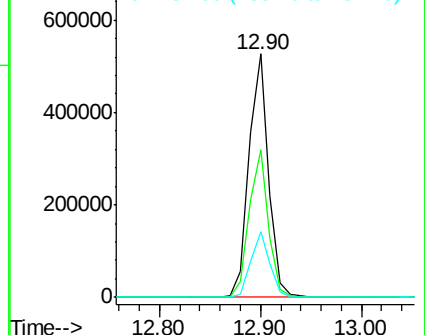
134 27.1 13.3 39.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 49.364 ug/l

RT: 12.98 min Scan# 1263

Delta R.T. -0.00 min

Lab File: VF059477.D

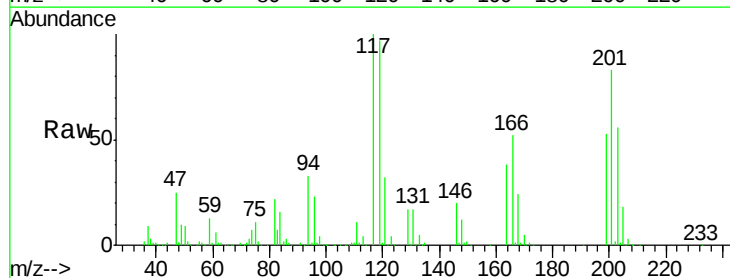
Acq: 7 Jul 2018 5:44

Tgt Ion: 117 Resp: 183608

Ion Ratio Lower Upper

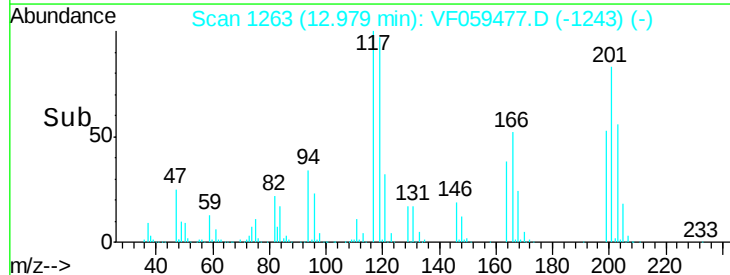
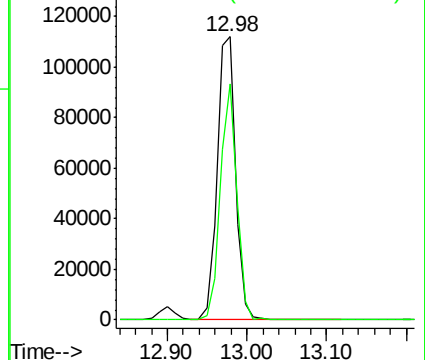
117 100

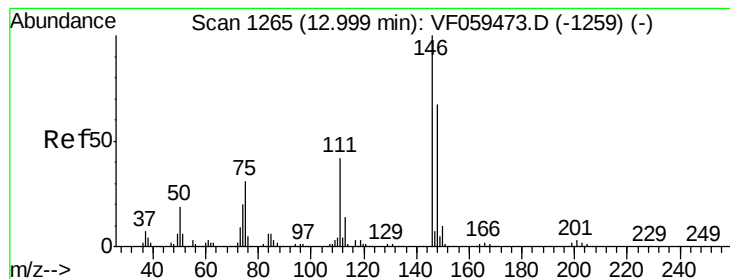
201 83.2 40.6 121.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 49.123 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

Instrument :

MSVOA\_F

ClientSampleId :

ICVVF070718

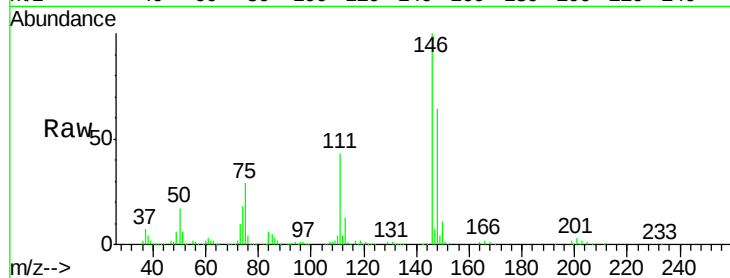
Tgt Ion:146 Resp: 367416

Ion Ratio Lower Upper

146 100

111 42.7 21.2 63.6

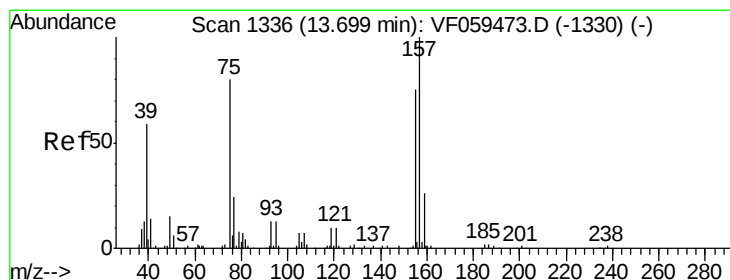
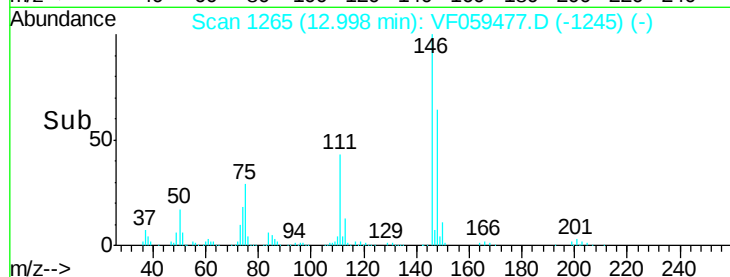
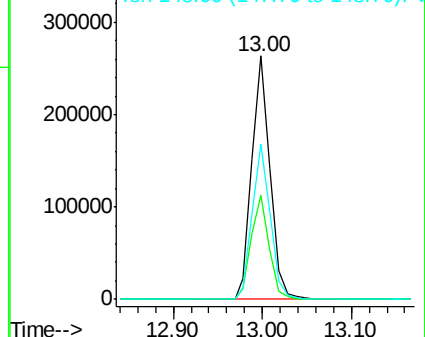
148 63.6 33.3 99.9



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: 50.929 ug/l

RT: 13.70 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VF059477.D

Acq: 7 Jul 2018 5:44

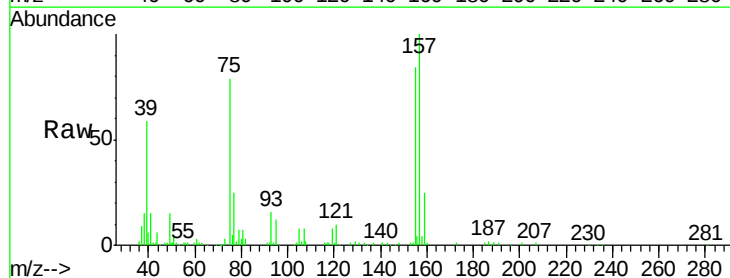
Tgt Ion: 75 Resp: 41709

Ion Ratio Lower Upper

75 100

155 107.0 47.3 141.8

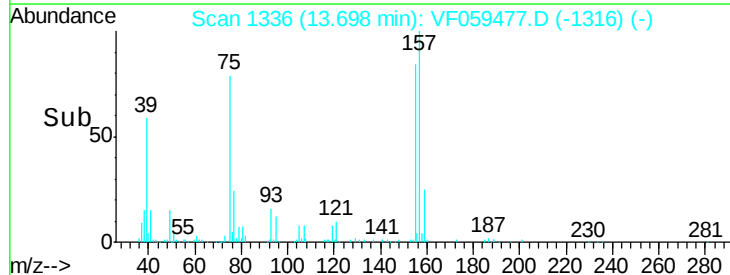
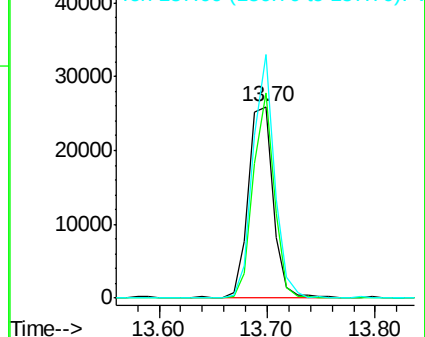
157 127.2 62.6 187.8

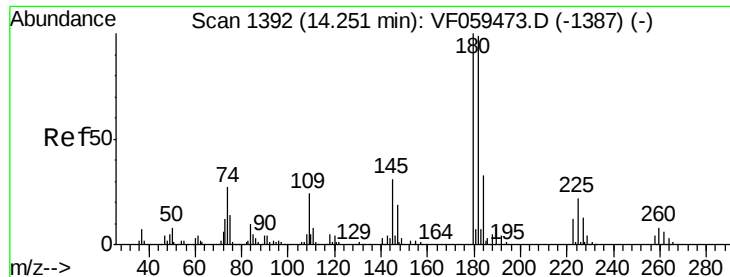


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

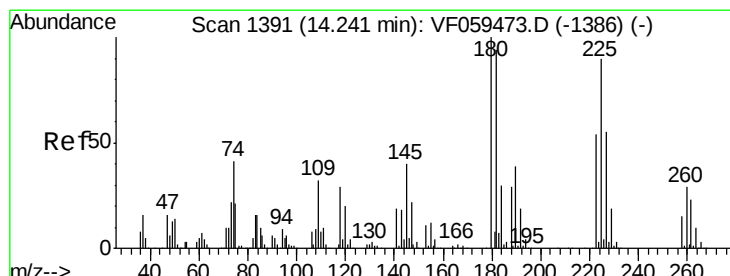
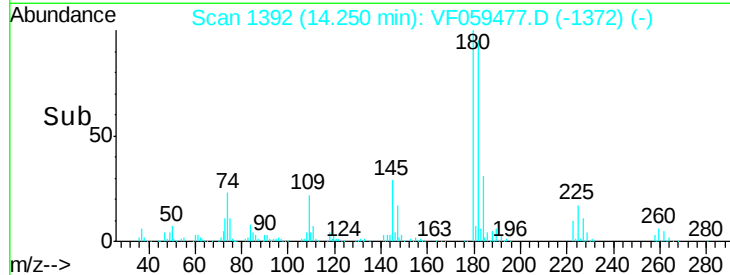
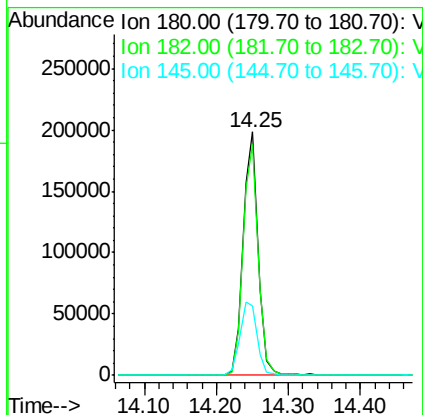
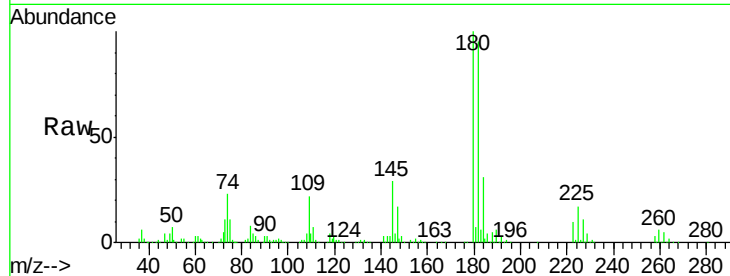




#93  
 1,2,4-Trichlorobenzene  
 Concen: 52.191 ug/l  
 RT: 14.25 min Scan# 1392  
 Delta R.T. -0.00 min  
 Lab File: VF059477.D  
 Acq: 7 Jul 2018 5:44

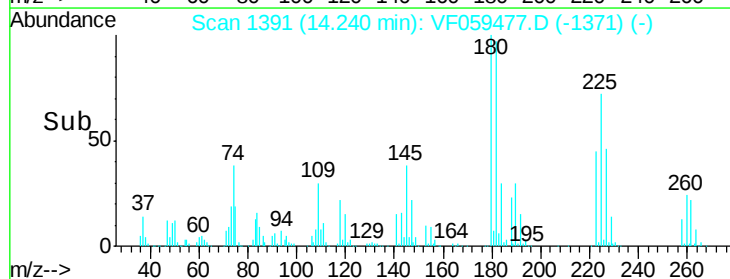
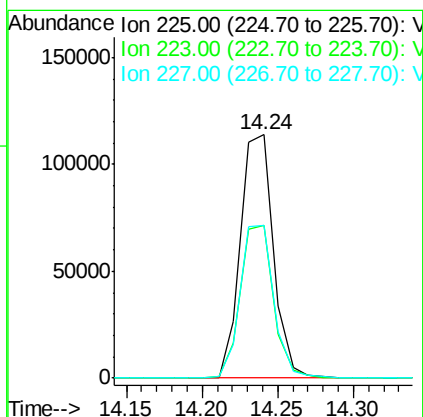
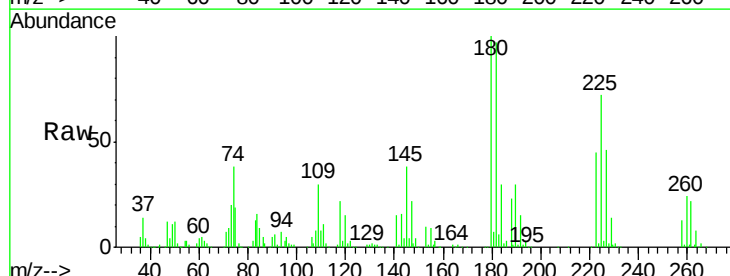
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 ICVVF070718

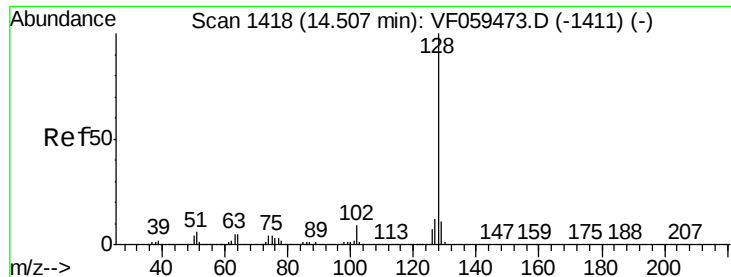
Tgt Ion:180 Resp: 289989  
 Ion Ratio Lower Upper  
 180 100  
 182 94.5 49.5 148.7  
 145 28.6 15.4 46.2



#94  
 Hexachlorobutadiene  
 Concen: 51.287 ug/l  
 RT: 14.24 min Scan# 1391  
 Delta R.T. -0.00 min  
 Lab File: VF059477.D  
 Acq: 7 Jul 2018 5:44

Tgt Ion:225 Resp: 172650  
 Ion Ratio Lower Upper  
 225 100  
 223 62.7 30.1 90.5  
 227 62.9 30.8 92.4

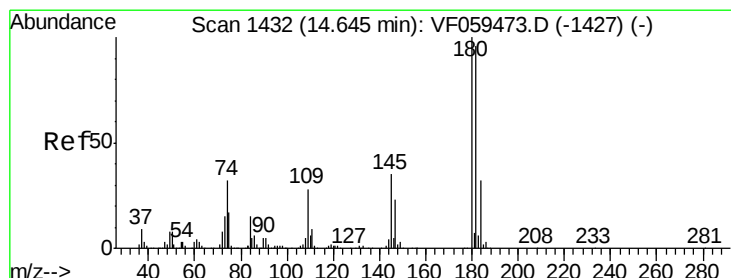
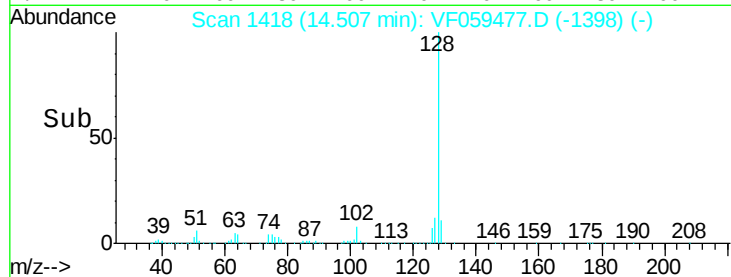
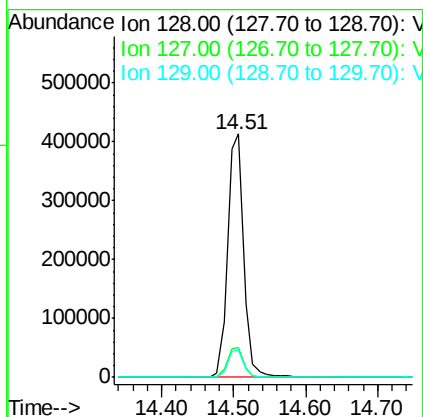
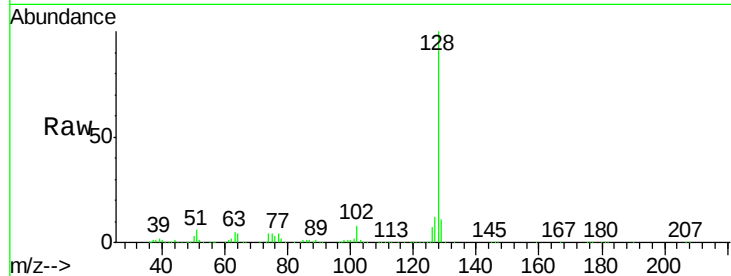




#95  
Naphthalene  
Concen: 57.787 ug/l  
RT: 14.51 min Scan# 1418  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

Instrument :  
MSVOA\_F  
ClientSampleId :  
ICVVF070718

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.3  | 9.9   | 14.9  |
| 129     | 11.1  | 9.0   | 13.6  |



#96  
1,2,3-Trichlorobenzene  
Concen: 53.158 ug/l  
RT: 14.64 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VF059477.D  
Acq: 7 Jul 2018 5:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 101.1 | 47.9  | 143.7 |
| 145     | 34.3  | 17.5  | 52.5  |

