

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051717\  
 Data File : BF095219.D  
 Acq On : 18 May 2017 11:20  
 Operator : SJ/MA  
 Sample : I3192-05MSD  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 18 12:57:24 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 03 17:24:51 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 86261    | 20.00 | ng    | 0.04     |
| 21) Naphthalene-d8        | 9.79  | 136  | 290385   | 20.00 | ng    | 0.04     |
| 38) Acenaphthene-d10      | 12.62 | 164  | 121704   | 20.00 | ng    | 0.04     |
| 63) Phenanthrene-d10      | 15.02 | 188  | 189182   | 20.00 | ng    | 0.04     |
| 75) Chrysene-d12          | 18.69 | 240  | 189765   | 20.00 | ng    | 0.04     |
| 86) Perylene-d12          | 20.37 | 264  | 138251   | 20.00 | ng    | 0.06     |

## System Monitoring Compounds

|                          |       |     |        |        |    |      |
|--------------------------|-------|-----|--------|--------|----|------|
| 5) 2-Fluorophenol        | 5.75  | 112 | 518742 | 100.26 | ng | 0.07 |
| 7) Phenol-d6             | 7.32  | 99  | 698987 | 112.60 | ng | 0.04 |
| 23) Nitrobenzene-d5      | 8.67  | 82  | 429030 | 93.17  | ng | 0.04 |
| 41) 2,4,6-Tribromophenol | 13.92 | 330 | 102962 | 103.30 | ng | 0.04 |
| 44) 2-Fluorobiphenyl     | 11.56 | 172 | 667846 | 78.98  | ng | 0.03 |
| 78) Terphenyl-d14        | 17.34 | 244 | 539093 | 62.57  | ng | 0.03 |

## Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.28  | 88  | 77521  | 30.55 | ng | 96     |
| 3) Pyridine                    | 2.98  | 79  | 107075 | 18.21 | ng | 98     |
| 4) n-Nitrosodimethylamine      | 2.91  | 42  | 60574  | 24.71 | ng | # 77   |
| 6) Aniline                     | 7.28  | 93  | 246079 | 31.40 | ng | 93     |
| 8) 2-Chlorophenol              | 7.47  | 128 | 207251 | 35.19 | ng | 96     |
| 9) Benzaldehyde                | 7.11  | 77  | 76159  | 20.09 | ng | 96     |
| 10) Phenol                     | 7.34  | 94  | 304327 | 46.52 | ng | 90     |
| 11) bis(2-Chloroethyl)ether    | 7.41  | 93  | 199417 | 36.93 | ng | 97     |
| 12) 1,3-Dichlorobenzene        | 7.68  | 146 | 235213 | 35.21 | ng | 98     |
| 13) 1,4-Dichlorobenzene        | 7.80  | 146 | 244243 | 36.05 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 8.03  | 146 | 230761 | 36.49 | ng | 96     |
| 15) Benzyl Alcohol             | 8.05  | 79  | 167687 | 42.00 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.26  | 45  | 267840 | 35.04 | ng | 54     |
| 17) 2-Methylphenol             | 8.27  | 107 | 181370 | 37.63 | ng | # 89   |
| 18) Hexachloroethane           | 8.55  | 117 | 70459  | 30.70 | ng | 88     |
| 19) n-Nitroso-di-n-propylamine | 8.47  | 70  | 151864 | 36.17 | ng | 95     |
| 20) 3+4-Methylphenols          | 8.53  | 107 | 233217 | 35.61 | ng | # 59   |
| 22) Acetophenone               | 8.44  | 105 | 313688 | 45.02 | ng | # 86   |
| 24) Nitrobenzene               | 8.70  | 77  | 212303 | 43.98 | ng | 91     |
| 25) Isophorone                 | 9.10  | 82  | 374130 | 45.50 | ng | # 94   |
| 26) 2-Nitrophenol              | 9.21  | 139 | 107728 | 41.36 | ng | 97     |
| 27) 2,4-Dimethylphenol         | 9.34  | 122 | 183964 | 43.69 | ng | 99     |
| 28) bis(2-Chloroethoxy)methane | 9.47  | 93  | 207365 | 36.45 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 9.64  | 162 | 146253 | 36.78 | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 9.71  | 180 | 153765 | 36.10 | ng | 98     |
| 31) Naphthalene                | 9.82  | 128 | 521302 | 35.72 | ng | 100    |
| 32) Benzoic acid               | 9.61  | 122 | 3691   | 6.28  | ng | 88     |
| 33) 4-Chloroaniline            | 9.98  | 127 | 64092  | 11.78 | ng | 93     |
| 34) Hexachlorobutadiene        | 10.04 | 225 | 77301  | 34.39 | ng | 98     |
| 35) Caprolactam                | 10.57 | 113 | 26259  | 21.99 | ng | # 77   |
| 36) 4-Chloro-3-methylphenol    | 10.82 | 107 | 145607 | 34.25 | ng | 93     |
| 37) 2-Methylnaphthalene        | 10.95 | 142 | 354654 | 37.03 | ng | 96     |
| 39) 1,2,4,5-Tetrachlorobenzene | 11.22 | 216 | 138700 | 37.06 | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 11.20 | 237 | 12218  | 13.23 | ng | 89     |

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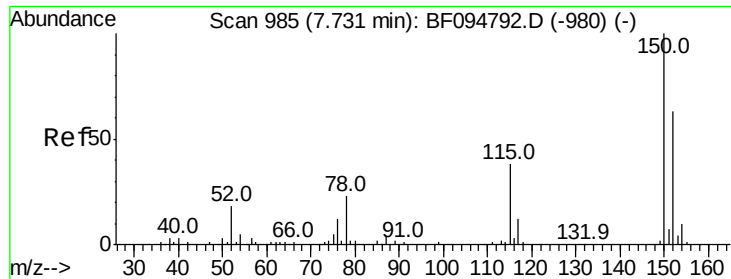
Instrument :  
 BNA\_F  
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Quant Time: May 18 12:57:24 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 11.45 | 196  | 94819    | 37.94  | nq    | 99       |
| 43) 2,4,5-Trichlorophenol      | 11.55 | 196  | 86641    | 32.26  | nq    | # 94     |
| 45) 1,1'-Biphenyl              | 11.71 | 154  | 397350   | 38.78  | nq    | 97       |
| 46) 2-Chloronaphthalene        | 11.73 | 162  | 306263   | 37.02  | nq    | 96       |
| 47) 2-Nitroaniline             | 11.95 | 65   | 81964    | 36.19  | nq    | # 84     |
| 48) Acenaphthylene             | 12.39 | 152  | 470872   | 36.33  | nq    | 99       |
| 49) Dimethylphthalate          | 12.26 | 163  | 494562   | 49.50  | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 12.35 | 165  | 73345    | 35.98  | nq    | 93       |
| 51) Acenaphthene               | 12.67 | 154  | 278766   | 36.01  | nq    | 99       |
| 52) 3-Nitroaniline             | 12.63 | 138  | 56092    | 25.64  | nq    | 88       |
| 53) 2,4-Dinitrophenol          | 12.88 | 184  | 7906     | 12.74  | nq    | # 73     |
| 54) Dibenzofuran               | 12.96 | 168  | 416229   | 38.86  | nq    | 97       |
| 55) 4-Nitrophenol              | 12.96 | 139  | 147796   | 112.48 | nq    | # 27     |
| 56) 2,4-Dinitrotoluene         | 13.02 | 165  | 91863    | 35.07  | nq    | 94       |
| 57) Fluorene                   | 13.51 | 166  | 324799   | 34.87  | nq    | 100      |
| 58) 2,3,4,6-Tetrachlorophenol  | 13.21 | 232  | 63983    | 37.85  | nq    | # 92     |
| 59) Diethylphthalate           | 13.41 | 149  | 338660   | 35.36  | nq    | 98       |
| 60) 4-Chlorophenyl-phenylether | 13.54 | 204  | 144965   | 35.41  | nq    | 90       |
| 61) 4-Nitroaniline             | 13.63 | 138  | 52114    | 25.95  | nq    | 97       |
| 62) Azobenzene                 | 13.79 | 77   | 291183   | 37.84  | nq    | 92       |
| 64) 4,6-Dinitro-2-methylphenol | 13.71 | 198  | 11561    | 9.12   | nq    | # 67     |
| 65) n-Nitrosodiphenylamine     | 13.74 | 169  | 279654   | 40.73  | nq    | 98       |
| 66) 4-Bromophenyl-phenylether  | 14.32 | 248  | 75947    | 38.00  | nq    | 99       |
| 67) Hexachlorobenzene          | 14.41 | 284  | 73722    | 35.99  | nq    | # 90     |
| 68) Atrazine                   | 14.66 | 200  | 75512    | 38.95  | nq    | 97       |
| 69) Pentachlorophenol          | 14.77 | 266  | 45560    | 51.45  | nq    | 96       |
| 70) Phenanthrene               | 15.06 | 178  | 407686   | 37.51  | nq    | 97       |
| 71) Anthracene                 | 15.14 | 178  | 422269   | 38.03  | nq    | 98       |
| 72) Carbazole                  | 15.42 | 167  | 377068   | 37.32  | nq    | 97       |
| 73) Di-n-butylphthalate        | 15.98 | 149  | 503013   | 39.93  | nq    | 99       |
| 74) Fluoranthene               | 16.80 | 202  | 458113   | 41.09  | nq    | 99       |
| 76) Benzidine                  | 17.03 | 184  | 297834   | 56.65  | nq    | # 90     |
| 77) Pyrene                     | 17.11 | 202  | 475404   | 33.50  | nq    | 99       |
| 79) Butylbenzylphthalate       | 18.00 | 149  | 227957   | 34.53  | nq    | 91       |
| 80) Benzo(a)anthracene         | 18.68 | 228  | 402353   | 36.43  | nq    | 98       |
| 81) 3,3'-Dichlorobenzidine     | 18.66 | 252  | 139087   | 36.46  | nq    | # 95     |
| 82) Chrysene                   | 18.73 | 228  | 391762   | 36.69  | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 18.75 | 149  | 327063   | 34.77  | nq    | # 98     |
| 84) Di-n-octyl phthalate       | 19.51 | 149  | 553667   | 35.90  | nq    | 96       |
| 85) Indeno(1,2,3-cd)pyrene     | 21.70 | 276  | 262798   | 30.30  | nq    | 99       |
| 87) Benzo(b)fluoranthene       | 19.96 | 252  | 314782   | 36.85  | nq    | 99       |
| 88) Benzo(k)fluoranthene       | 19.99 | 252  | 346281   | 42.02  | nq    | # 94     |
| 89) Benzo(a)pyrene             | 20.31 | 252  | 296545   | 37.62  | nq    | 100      |
| 90) Dibenzo(a,h)anthracene     | 21.70 | 278  | 214801   | 32.99  | nq    | 98       |
| 91) Benzo(g,h,i)perylene       | 22.09 | 276  | 218617   | 34.22  | nq    | 97       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.77 min Scan# 992

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

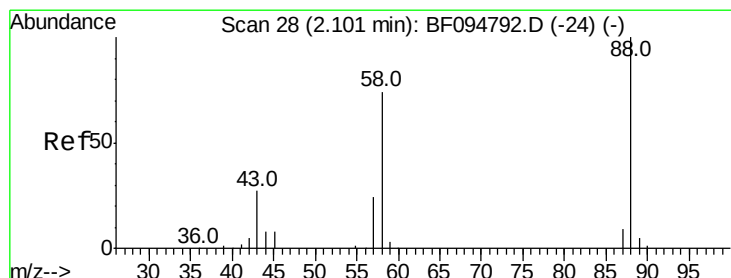
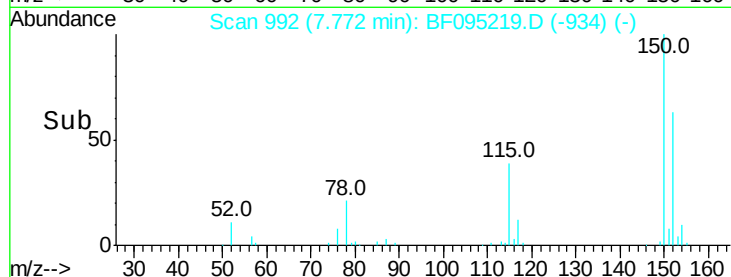
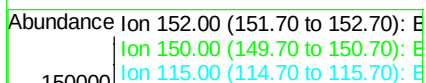
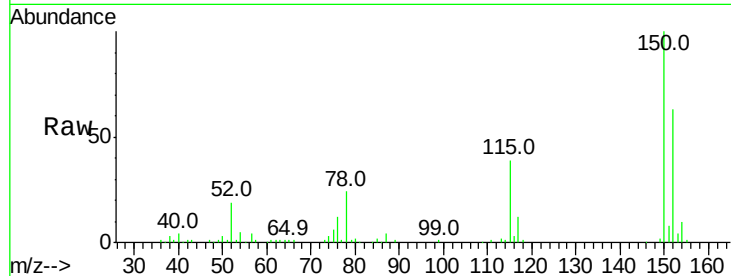
Tot Ion:152 Resp: 86261

Ion Ratio Lower Upper

152 100

150 159.5 126.2 189.2

115 62.8 52.2 78.2



#2

1,4-Dioxane

Concen: 30.55 ng

RT: 2.28 min Scan# 59

Delta R.T. 0.18 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

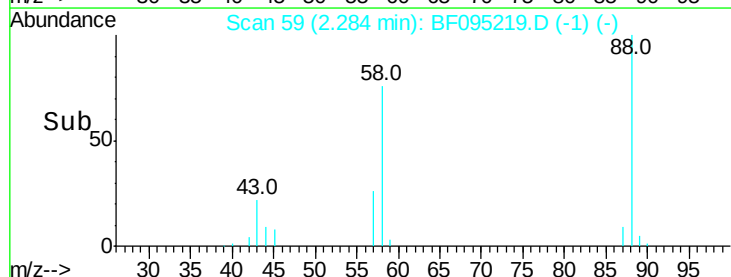
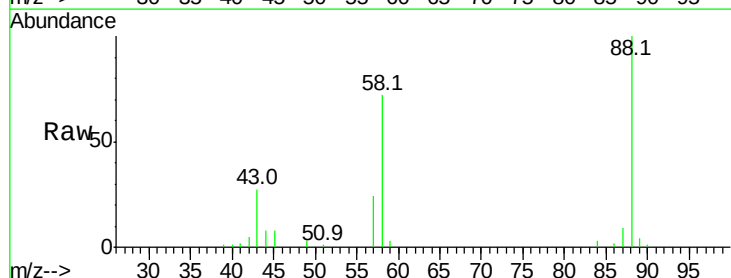
Tgt Ion: 88 Resp: 77521

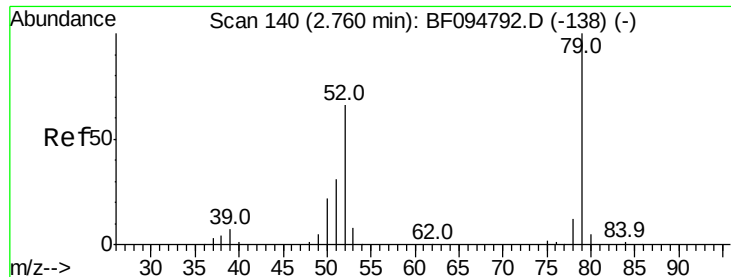
Ion Ratio Lower Upper

88 100

58 74.0 61.4 92.0

43 25.0 23.4 35.0





#3

Pvridine

Concen: 18.21 ng

RT: 2.98 min Scan# 178

Delta R.T. 0.22 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

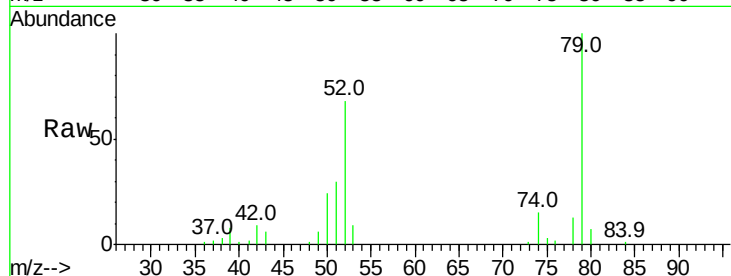
Tot Ion: 79 Resp: 107075

Ion Ratio Lower Upper

79 100

52 68.3 54.8 82.2

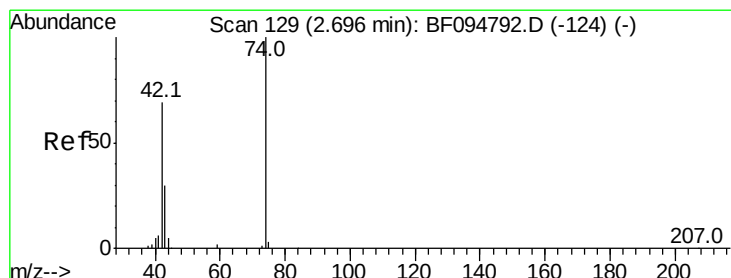
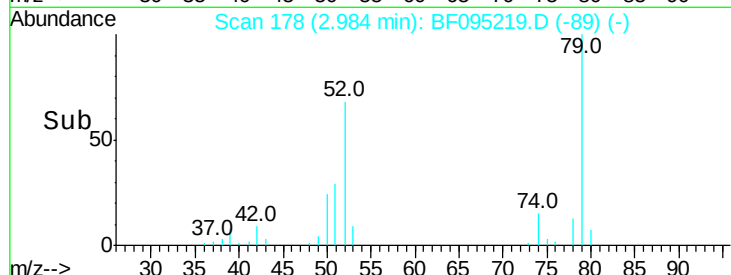
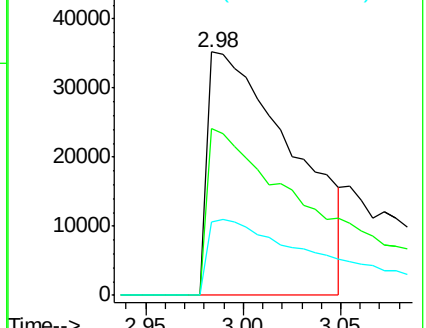
51 30.3 27.0 40.4



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 52.00 (51.70 to 52.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



#4

n-Nitrosodimethylamine

Concen: 24.71 ng

RT: 2.91 min Scan# 165

Delta R.T. 0.21 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

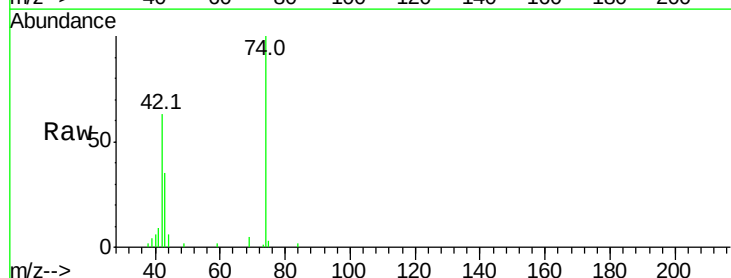
Tgt Ion: 42 Resp: 60574

Ion Ratio Lower Upper

42 100

74 157.7 103.9 155.9#

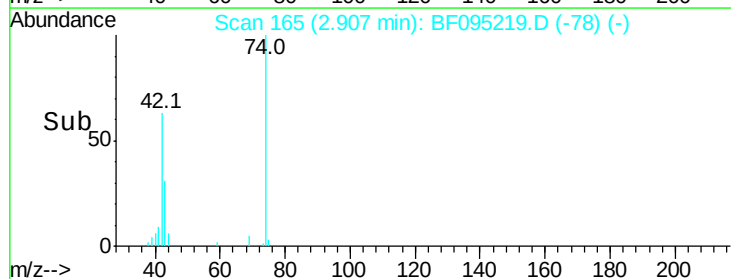
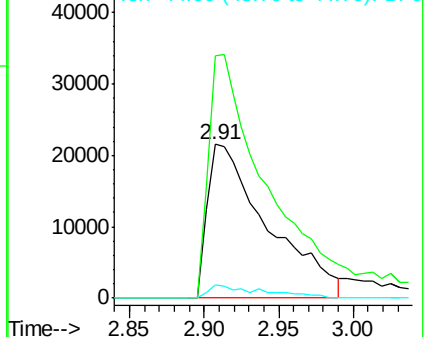
44 8.8 5.7 8.5#

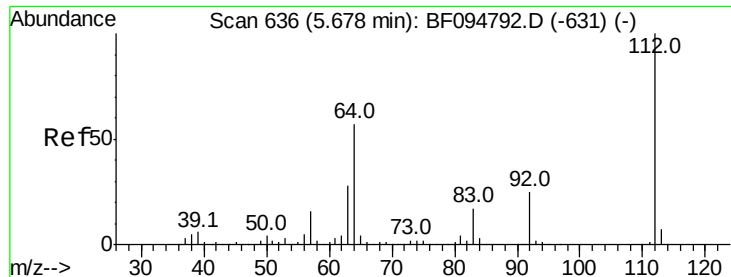


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0





#5

2-Fluorophenol

Concen: 100.26 ng

RT: 5.75 min Scan# 648

Delta R.T. 0.07 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

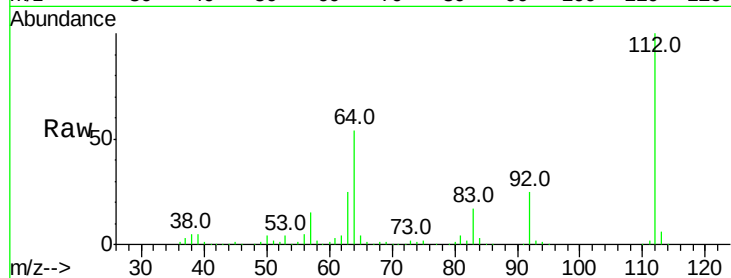
Tot Ion:112 Resp: 518742

Ion Ratio Lower Upper

112 100

64 53.8 46.0 69.0

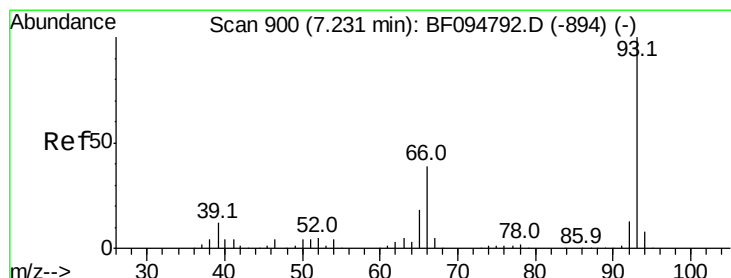
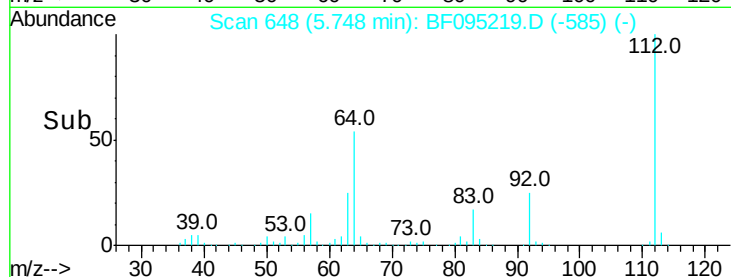
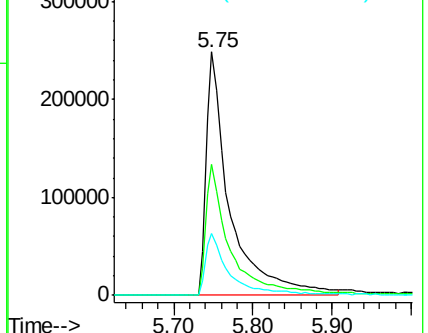
63 25.5 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 31.40 ng

RT: 7.28 min Scan# 909

Delta R.T. 0.05 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

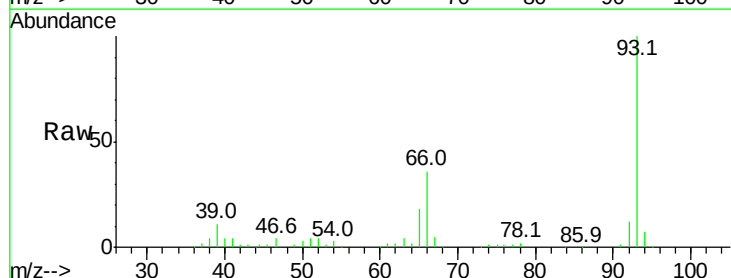
Tgt Ion: 93 Resp: 246079

Ion Ratio Lower Upper

93 100

66 35.7 32.9 49.3

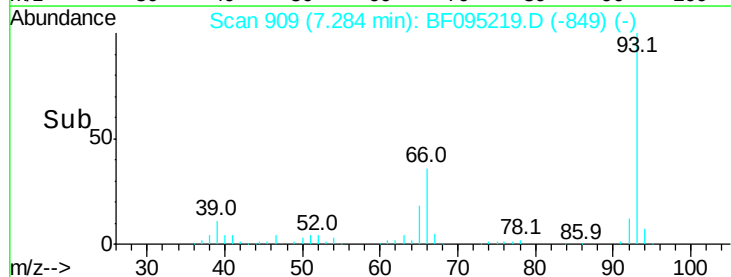
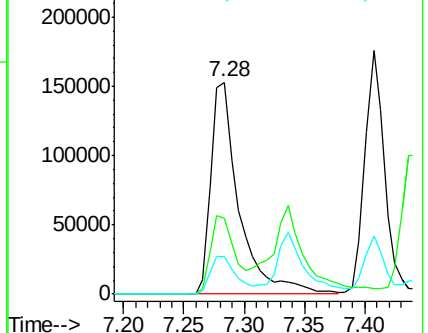
65 17.6 16.0 24.0

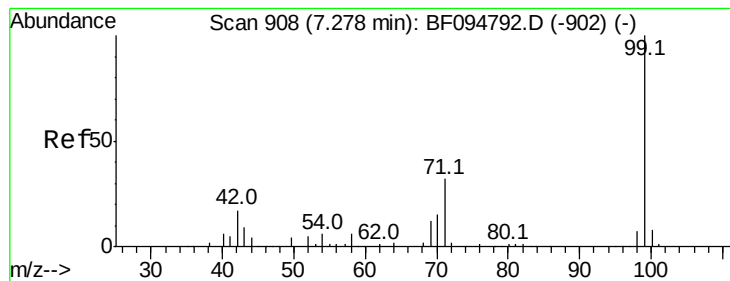


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 112.60 ng

RT: 7.32 min Scan# 915

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :  
BNA\_F  
ClientSampled :

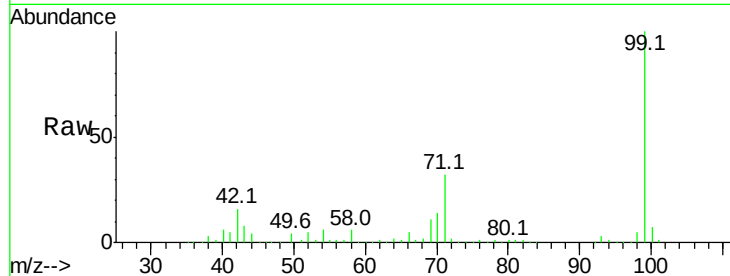
Tot Ion: 99 Resp: 698987

Ion Ratio Lower Upper

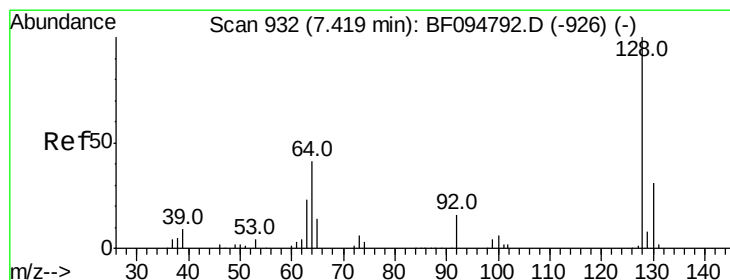
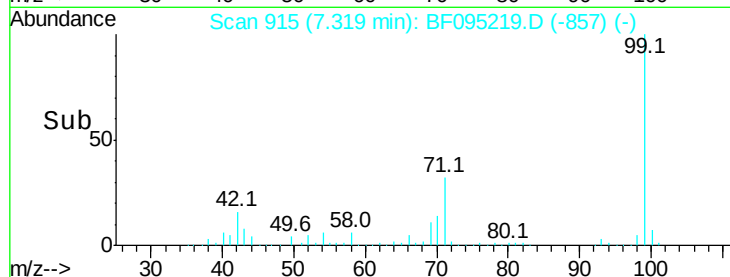
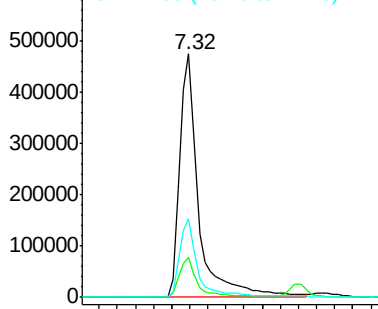
99 100

42 16.4 13.5 20.3

71 32.3 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 35.19 ng

RT: 7.47 min Scan# 940

Delta R.T. 0.05 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

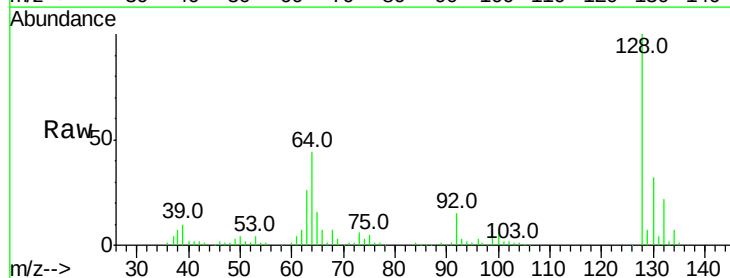
Tgt Ion: 128 Resp: 207251

Ion Ratio Lower Upper

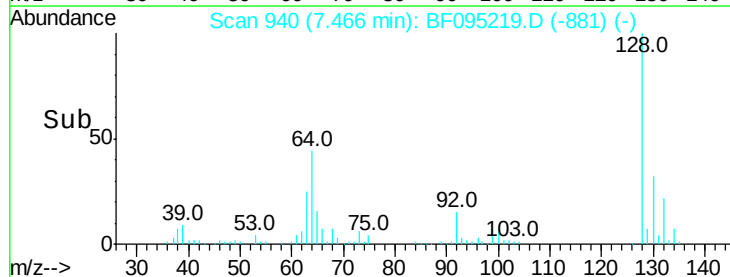
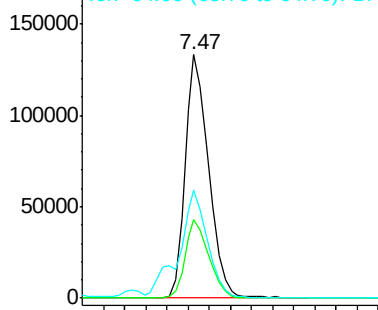
128 100

130 32.1 12.9 52.9

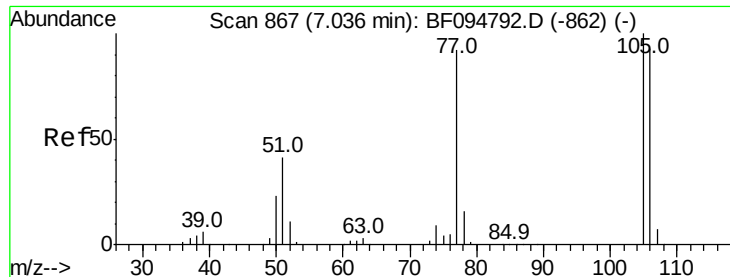
64 44.1 28.4 68.4



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 130.00 (129.70 to 130.70): E  
Ion 64.00 (63.70 to 64.70): BF0



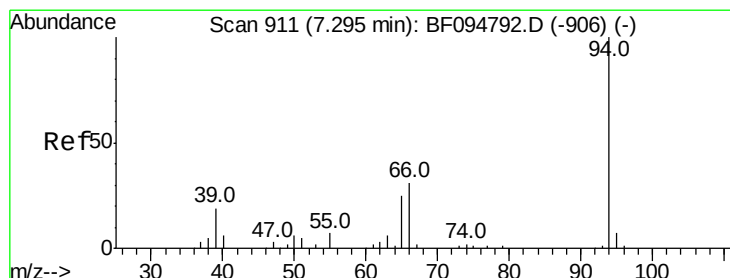
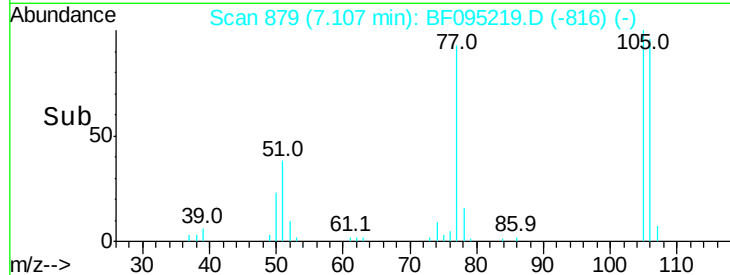
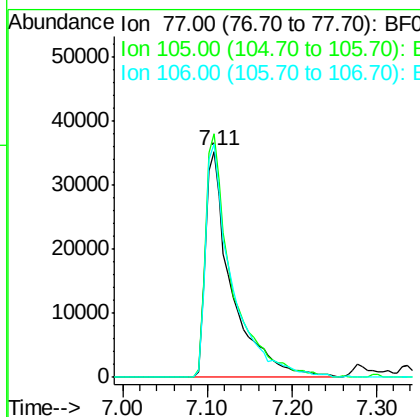
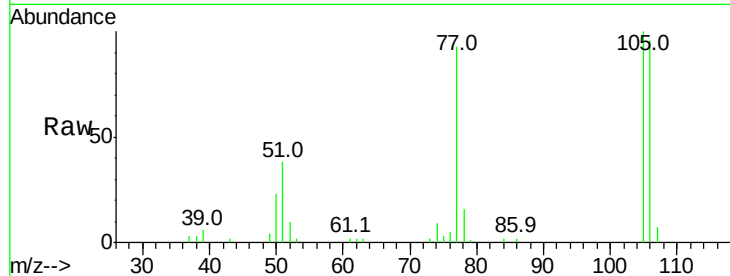




#9  
Benzaldehyde  
Concen: 20.09 ng  
RT: 7.11 min Scan# 879  
Delta R.T. 0.07 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

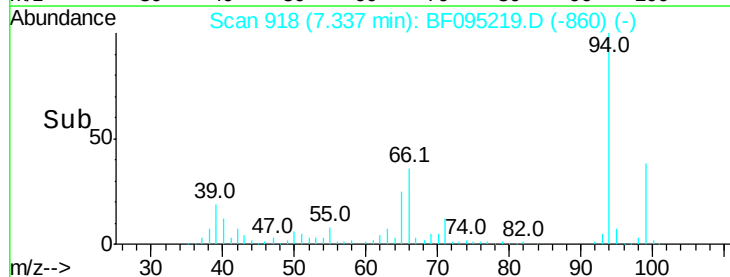
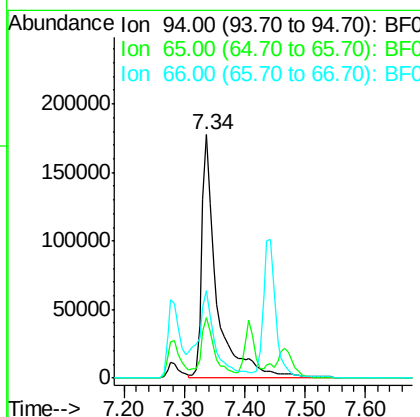
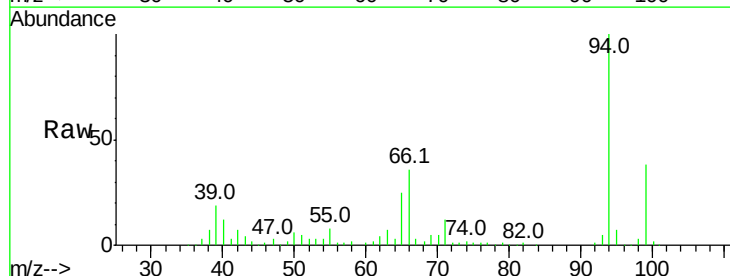
Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 77 Resp: 76159  
Ion Ratio Lower Upper  
77 100  
105 107.7 83.8 123.8  
106 103.0 79.1 119.1

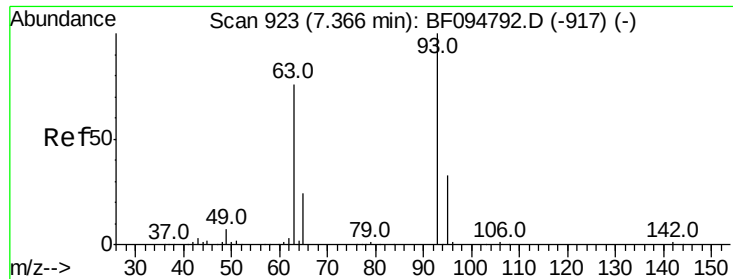


#10  
Phenol  
Concen: 46.52 ng  
RT: 7.34 min Scan# 918  
Delta R.T. 0.04 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion: 94 Resp: 304327  
Ion Ratio Lower Upper  
94 100  
65 24.9 9.9 49.9  
66 36.0 23.1 63.1



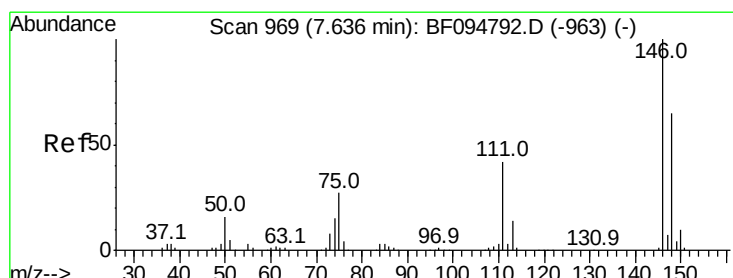
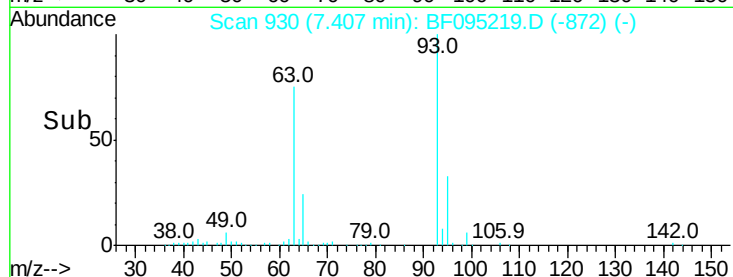
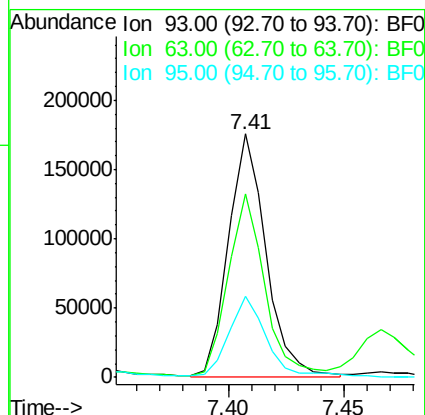
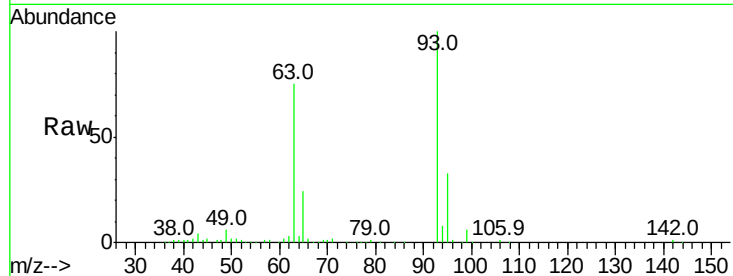




#11  
bis(2-Chloroethyl)ether  
Concen: 36.93 ng  
RT: 7.41 min Scan# 930  
Delta R.T. 0.04 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

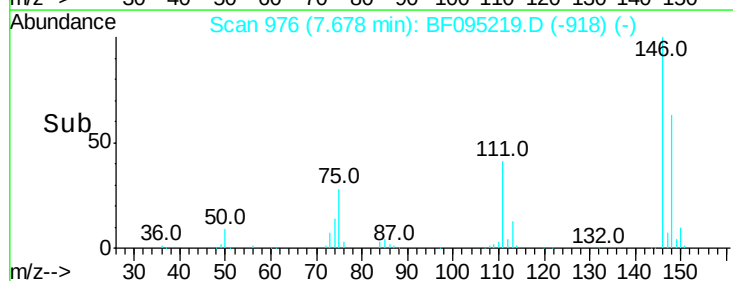
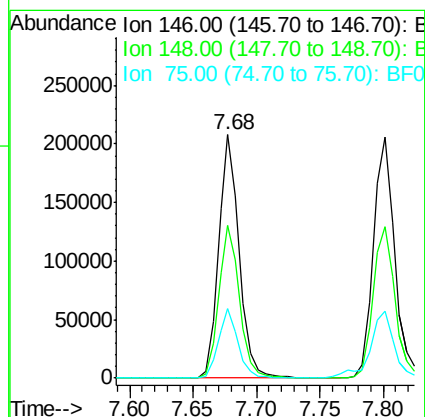
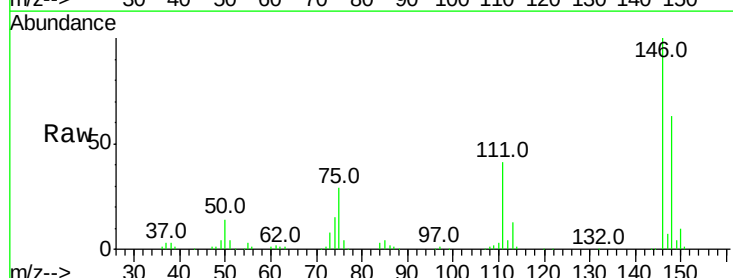
Instrument :  
BNA\_F  
ClientSampleId :

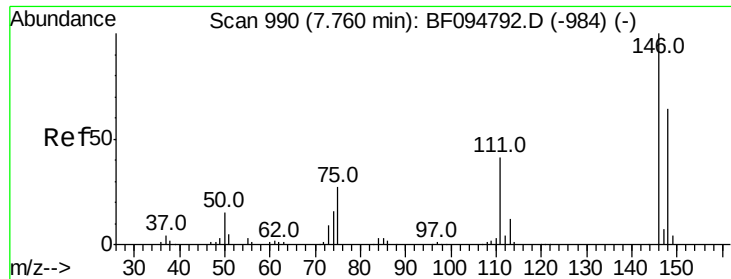
Tot Ion: 93 Resp: 199417  
Ion Ratio Lower Upper  
93 100  
63 75.3 59.2 99.2  
95 33.2 12.8 52.8



#12  
1,3-Dichlorobenzene  
Concen: 35.21 ng  
RT: 7.68 min Scan# 976  
Delta R.T. 0.04 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion: 146 Resp: 235213  
Ion Ratio Lower Upper  
146 100  
148 62.8 51.8 77.6  
75 28.5 23.1 34.7





#13

1,4-Dichlorobenzene

Concen: 36.05 ng

RT: 7.80 min Scan# 997

Delta R.T. 0.04 min

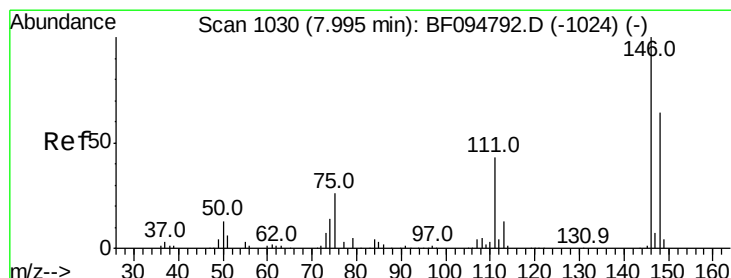
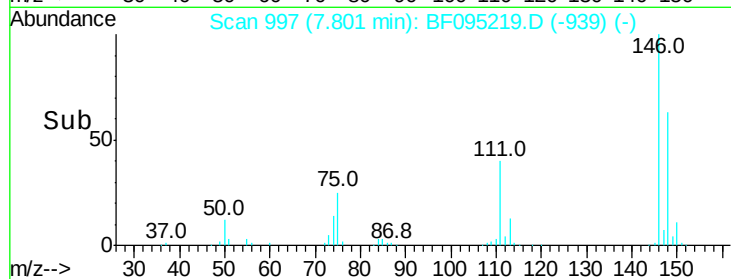
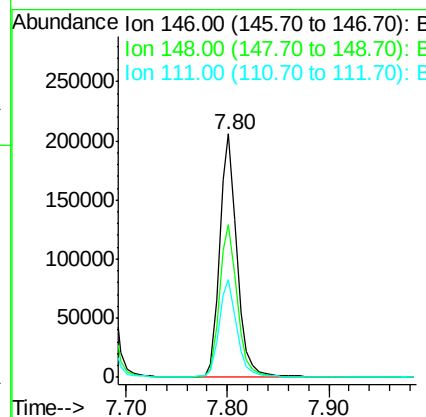
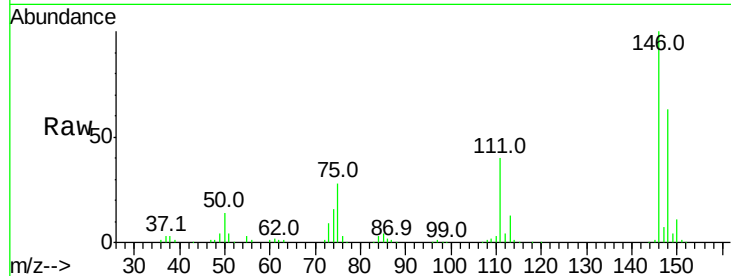
Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:146 Resp: 244243

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 148 | 62.9  | 52.2  | 78.2  |
| 111 | 40.1  | 30.3  | 45.5  |



#14

1,2-Dichlorobenzene

Concen: 36.49 ng

RT: 8.03 min Scan# 1036

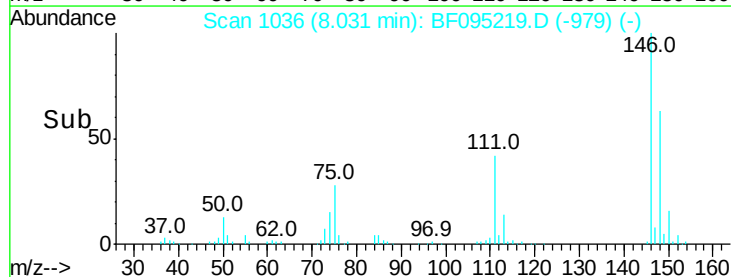
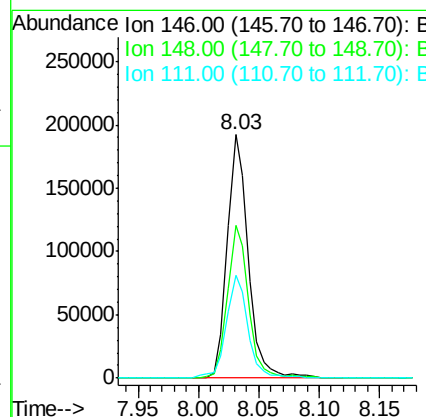
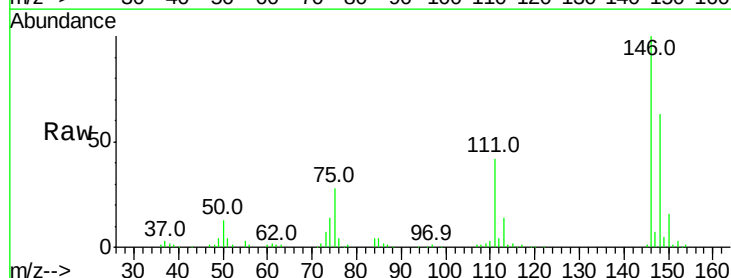
Delta R.T. 0.04 min

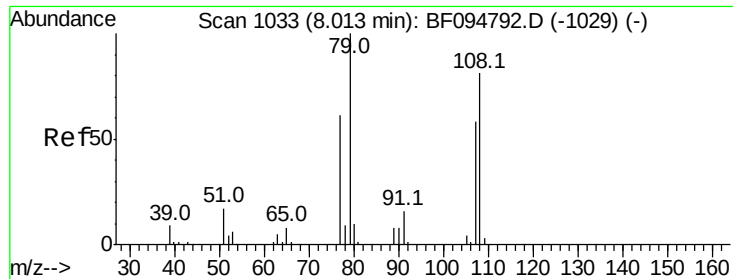
Lab File: BF095219.D

Acq: 18 May 2017 11:20

Tgt Ion:146 Resp: 230761

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 148 | 62.9  | 50.4  | 75.6  |
| 111 | 42.2  | 38.2  | 57.4  |

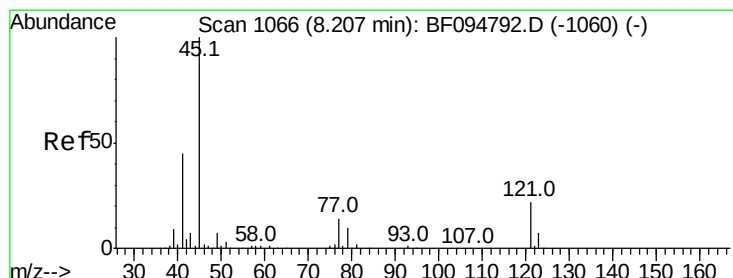
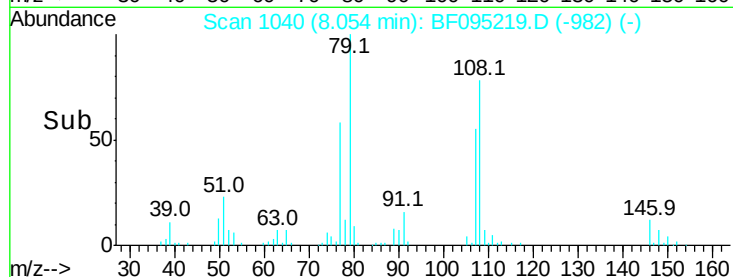
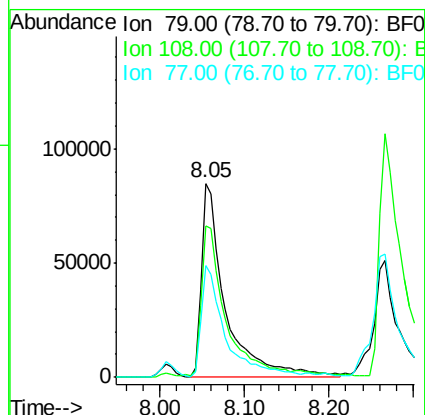
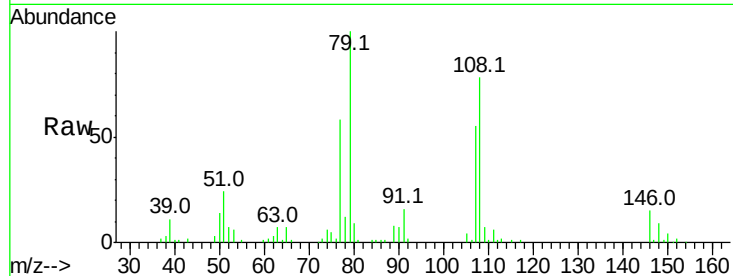




#15  
Benzyl Alcohol  
Concen: 42.00 ng  
RT: 8.05 min Scan# 1040  
Delta R.T. 0.04 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

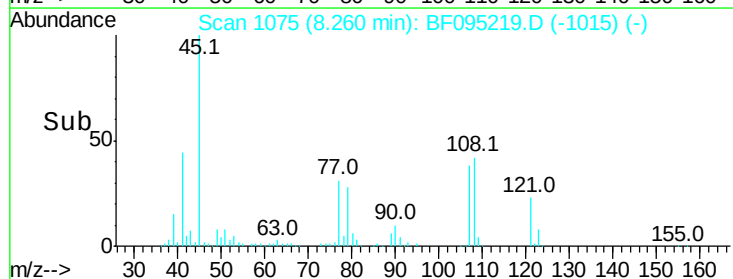
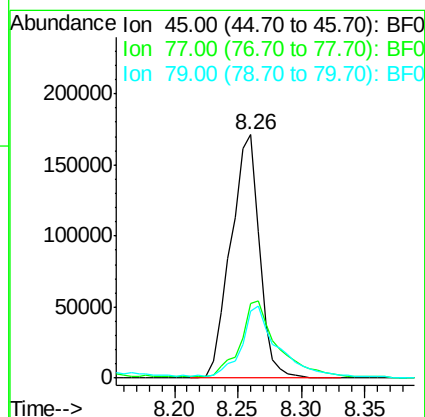
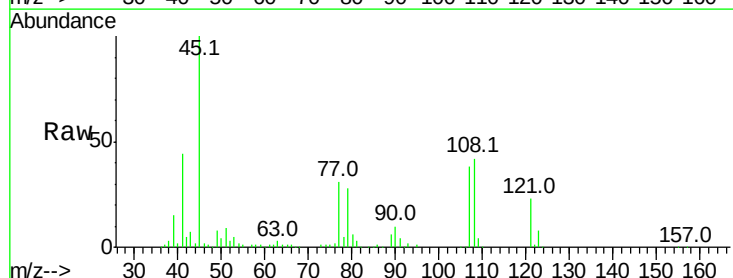
Instrument :  
BNA\_F  
ClientSampleId :

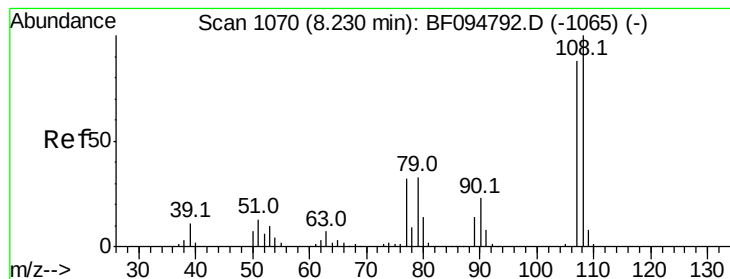
Tot Ion: 79 Resp: 167687  
Ion Ratio Lower Upper  
79 100  
108 78.1 63.4 95.0  
77 58.0 49.2 73.8



#16  
2,2'-oxybis(1-chloropropane)  
Concen: 35.04 ng  
RT: 8.26 min Scan# 1075  
Delta R.T. 0.05 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion: 45 Resp: 267840  
Ion Ratio Lower Upper  
45 100  
77 30.8 0.0 33.2  
79 27.5 0.0 30.0

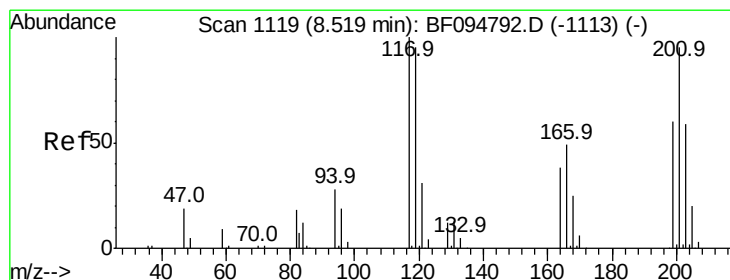
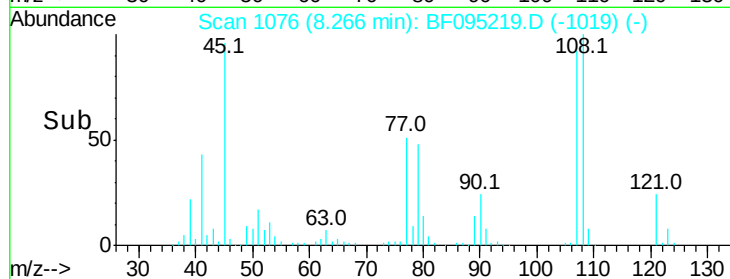
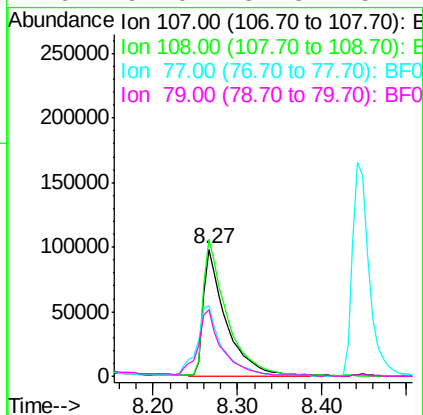
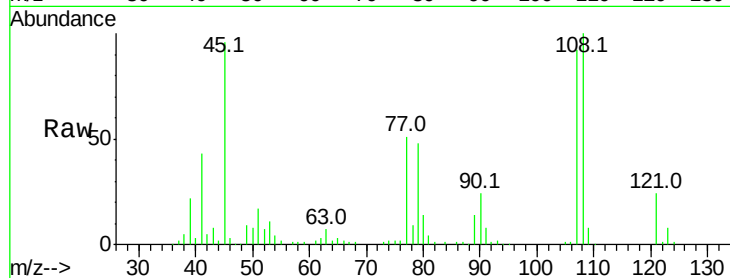




#17  
 2-Methylphenol  
 Concen: 37.63 ng  
 RT: 8.27 min Scan# 1076  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

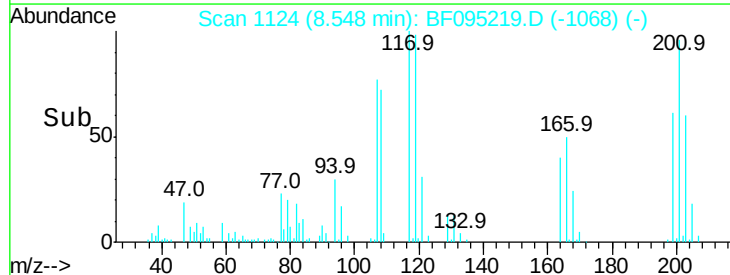
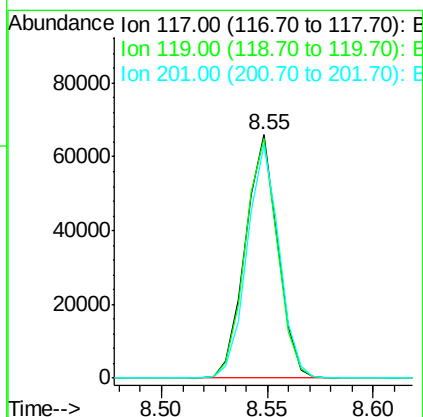
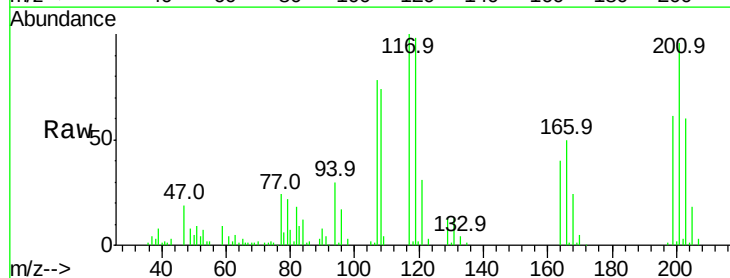
Instrument :  
 BNA\_F  
 ClientSampleId :

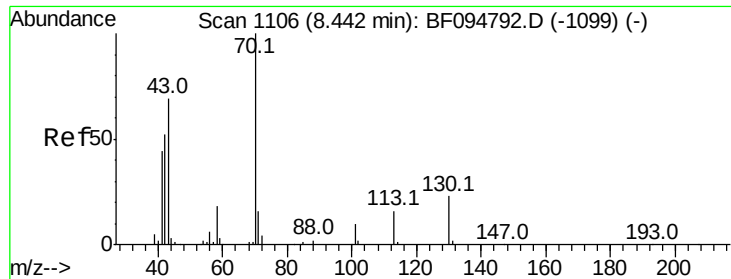
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 107   | Resp: | 181370 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 108.5 | 93.4  | 140.0  |
| 77       | 55.2  | 35.8  | 53.6#  |
| 79       | 52.0  | 34.8  | 52.2   |



#18  
 Hexachloroethane  
 Concen: 30.70 ng  
 RT: 8.55 min Scan# 1124  
 Delta R.T. 0.03 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 70459 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 98.2  | 77.4  | 116.0 |
| 201      | 95.7  | 94.6  | 141.8 |

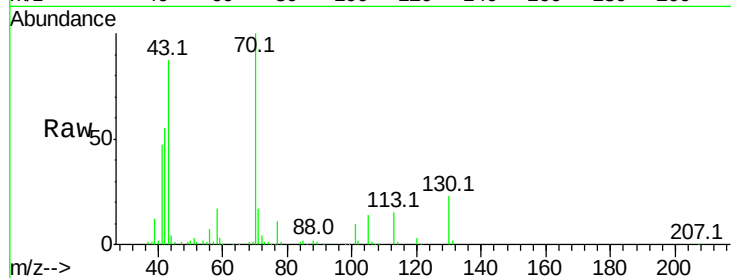




#19  
n-Nitroso-di-n-propylamine  
Concen: 36.17 ng  
RT: 8.47 min Scan# 1111  
Delta R.T. 0.03 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 70 Resp: 151864  
Ion Ratio Lower Upper  
70 100  
42 55.3 47.2 70.8  
101 10.5 7.2 10.8  
130 22.5 15.9 23.9



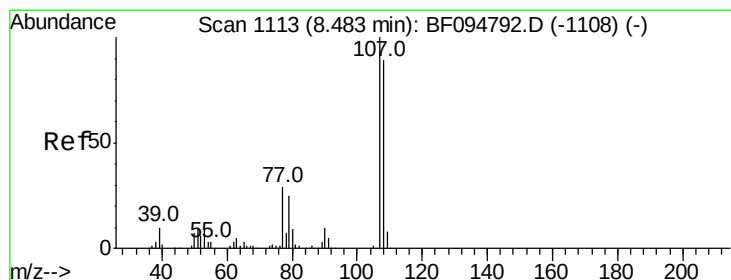
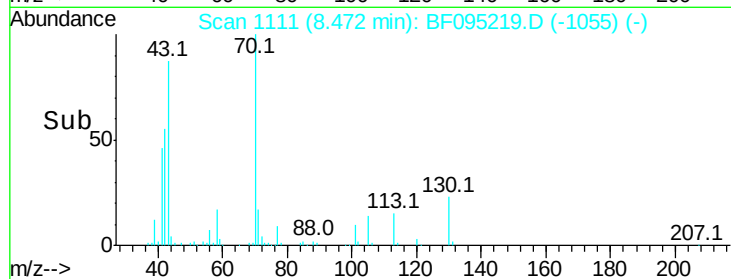
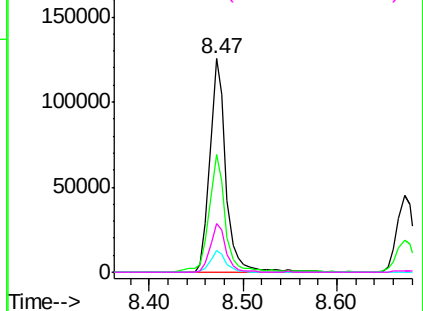
Abundance

Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

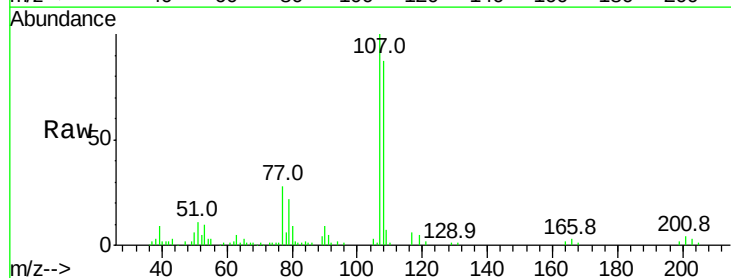
Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#20  
3+4-Methylphenols  
Concen: 35.61 ng  
RT: 8.53 min Scan# 1121  
Delta R.T. 0.05 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion:107 Resp: 233217  
Ion Ratio Lower Upper  
107 100  
108 86.7 71.0 111.0  
77 28.4 90.5 130.5#  
79 22.1 8.4 48.4



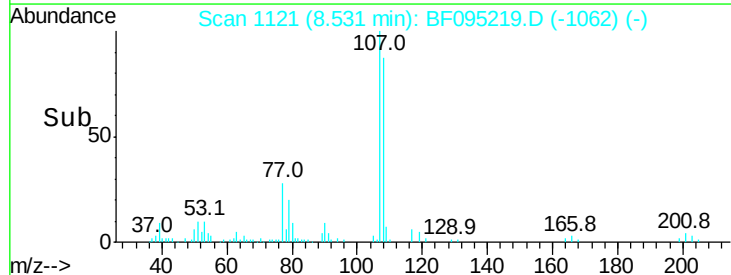
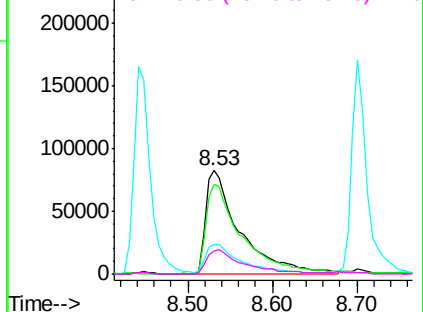
Abundance

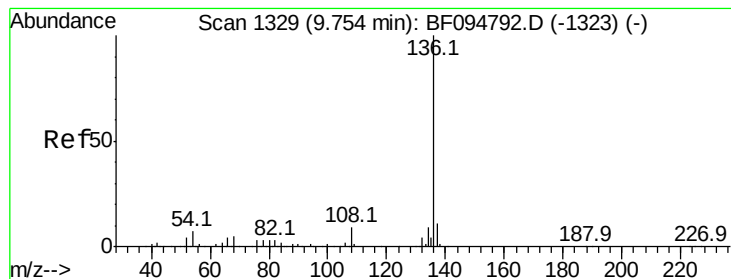
Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.79 min Scan# 1335

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 290385

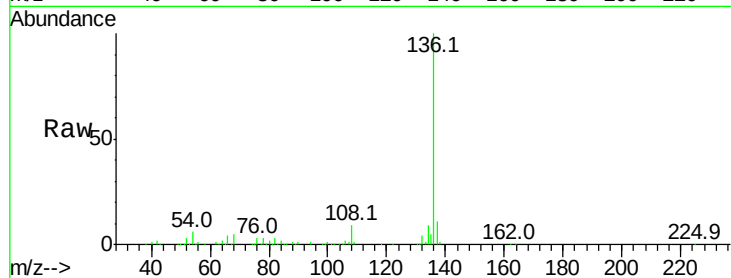
Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 6.4 4.9 7.3

68 5.2 4.1 6.1

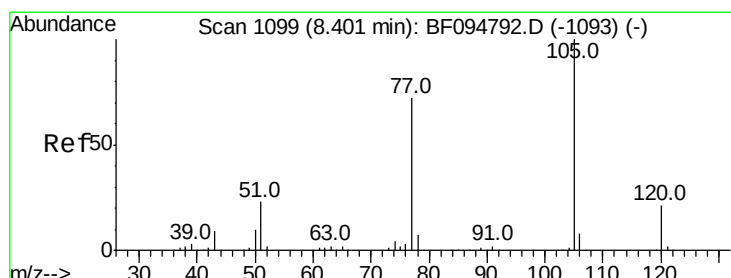
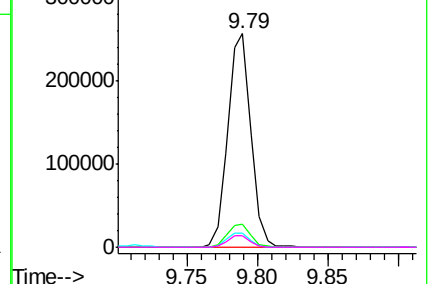
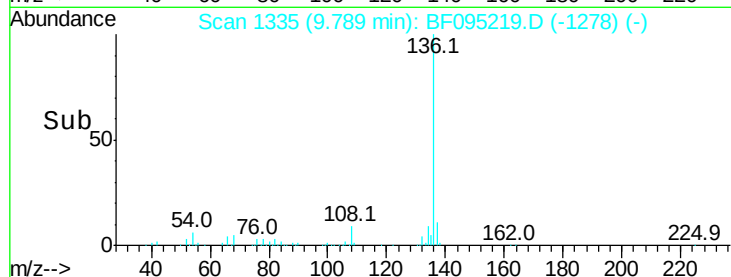


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 45.02 ng

RT: 8.44 min Scan# 1106

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Tgt Ion:105 Resp: 313688

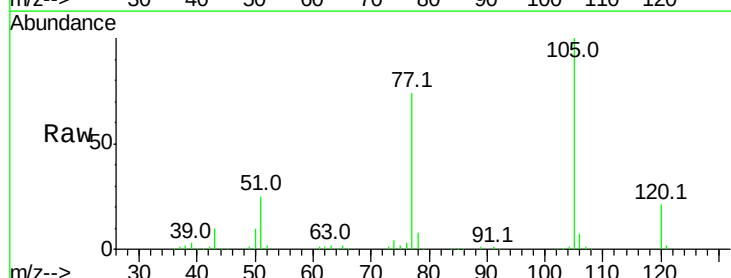
Ion Ratio Lower Upper

105 100

71 0.0 2.8 4.2#

51 24.7 30.7 46.1#

120 21.5 17.4 26.0

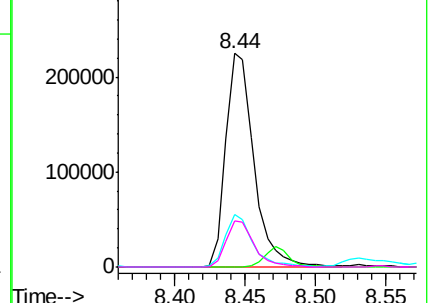
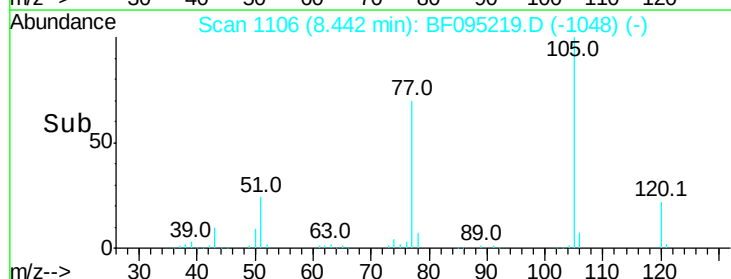


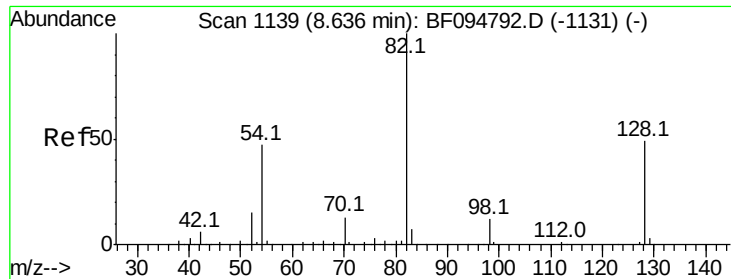
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E

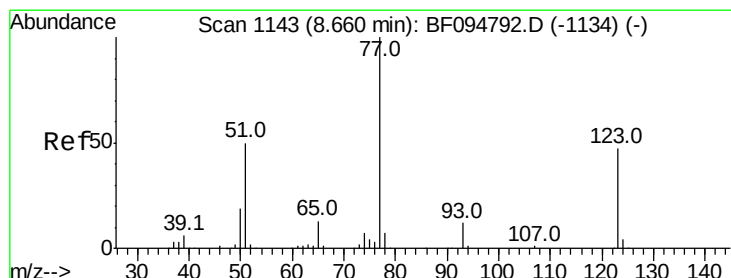
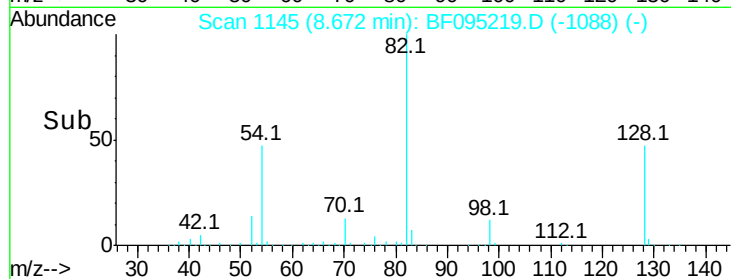
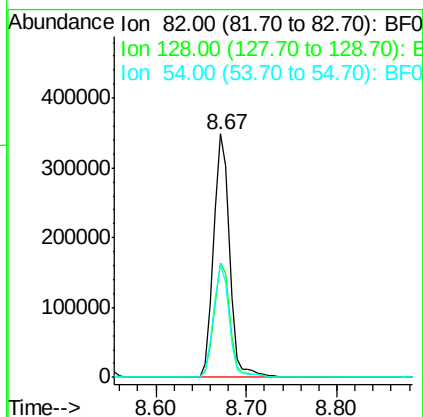
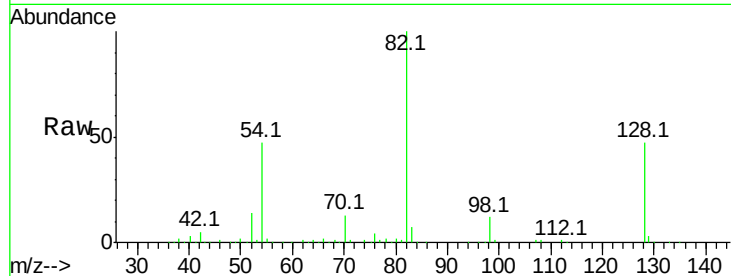




#23  
 Nitrobenzene-d5  
 Concen: 93.17 ng  
 RT: 8.67 min Scan# 1145  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

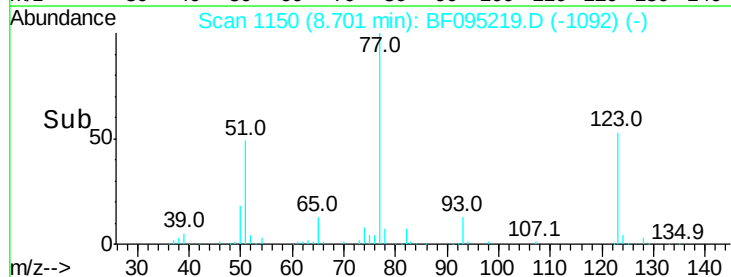
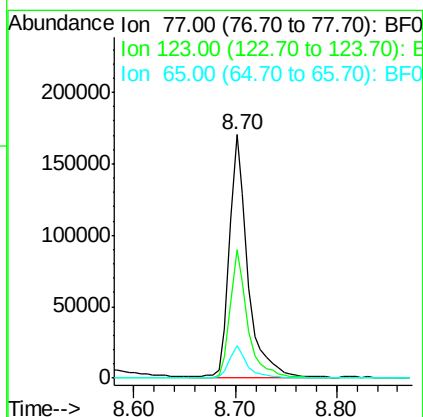
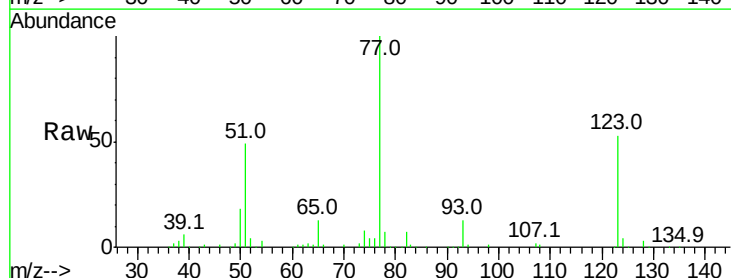
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion   | 82    | Resp  | 429030 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 47.1  | 34.0  | 51.0   |
| 54        | 46.6  | 42.2  | 63.2   |

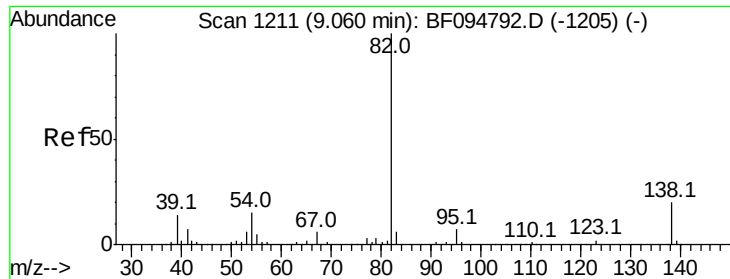


#24  
 Nitrobenzene  
 Concen: 43.98 ng  
 RT: 8.70 min Scan# 1150  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

| Tgt Ion   | 77    | Resp  | 212303 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 123       | 52.6  | 35.8  | 53.8   |
| 65        | 13.3  | 10.6  | 15.8   |







#25

Isophorone

Concen: 45.50 ng

RT: 9.10 min Scan# 1218

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

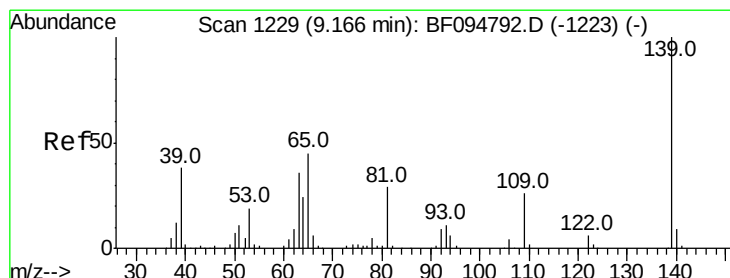
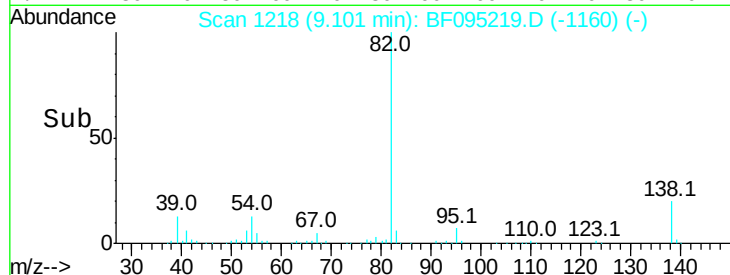
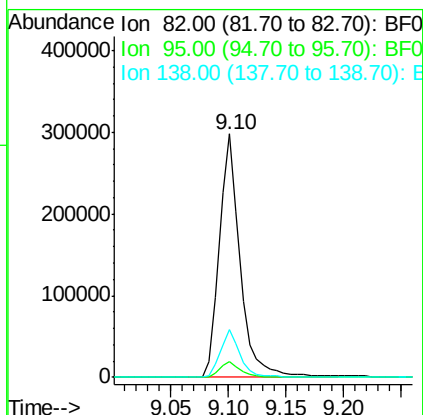
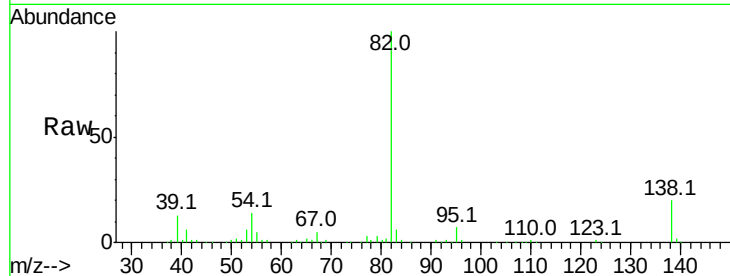
Tot Ion: 82 Resp: 374130

Ion Ratio Lower Upper

82 100

95 6.7 5.3 7.9

138 19.8 13.1 19.7#



#26

2-Nitrophenol

Concen: 41.36 ng

RT: 9.21 min Scan# 1236

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

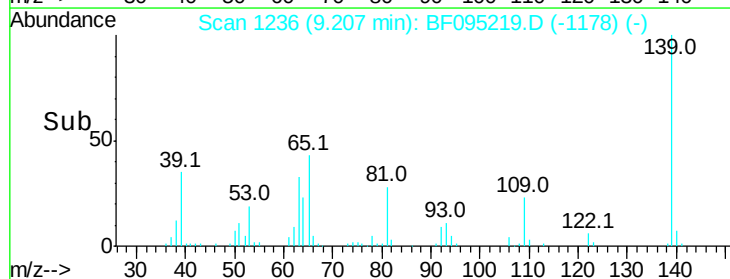
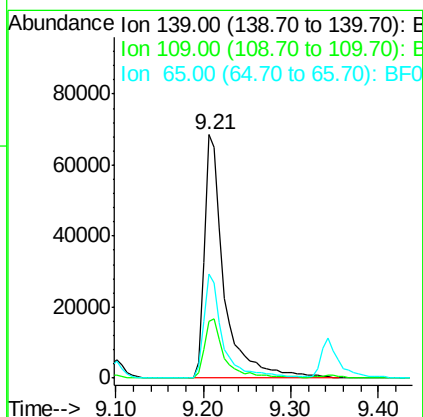
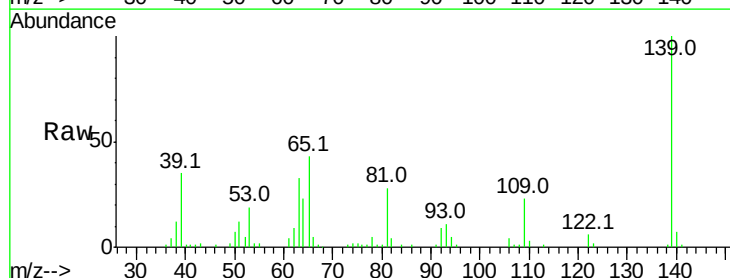
Tgt Ion: 139 Resp: 107728

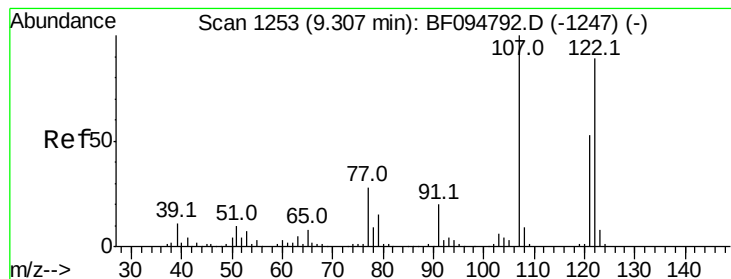
Ion Ratio Lower Upper

139 100

109 23.4 21.0 31.6

65 42.6 33.0 49.6





#27

2,4-Dimethylphenol

Concen: 43.69 ng

RT: 9.34 min Scan# 1259

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

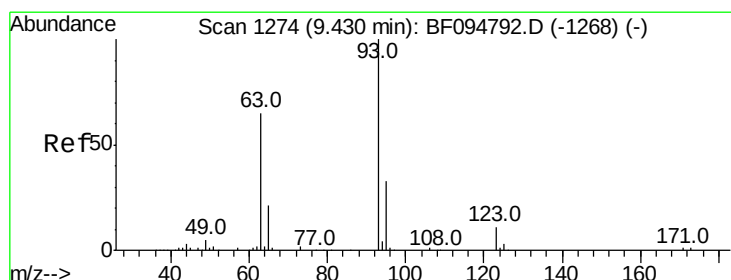
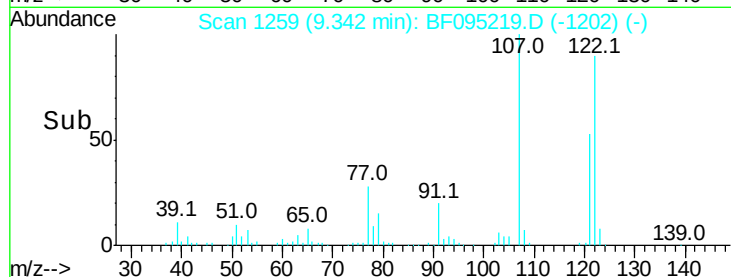
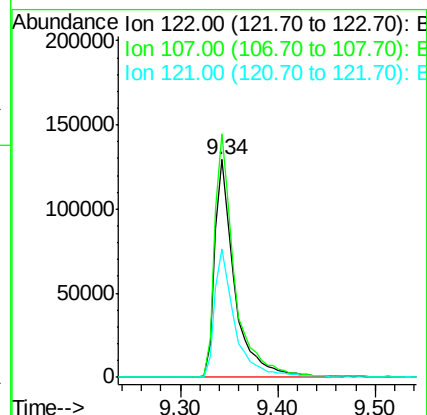
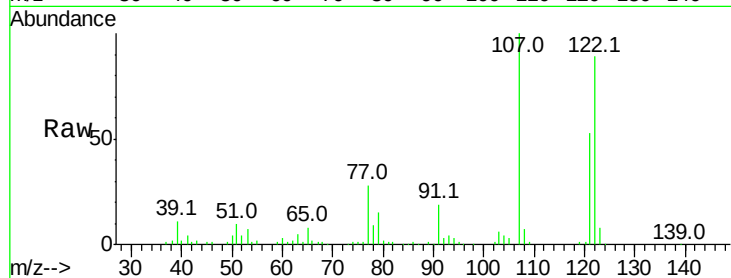
Tot Ion:122 Resp: 183964

Ion Ratio Lower Upper

122 100

107 111.8 89.2 133.8

121 59.1 45.2 67.8



#28

bis(2-Chloroethoxy)methane

Concen: 36.45 ng

RT: 9.47 min Scan# 1280

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

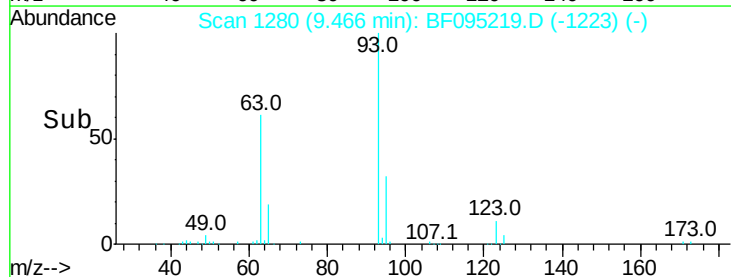
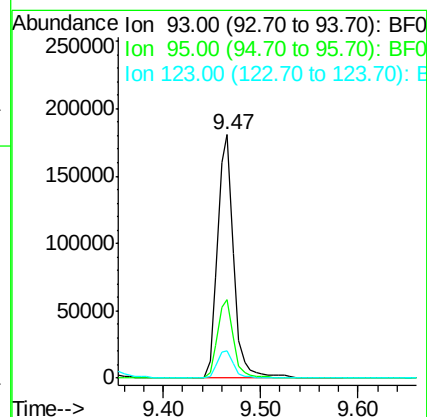
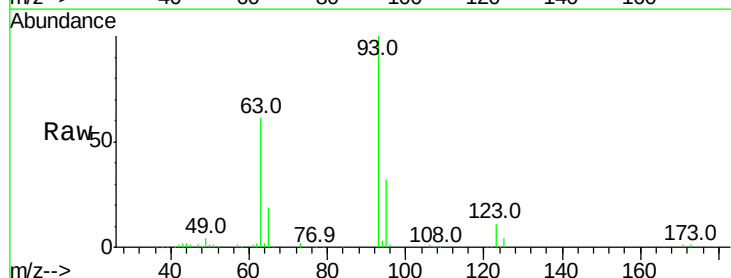
Tgt Ion: 93 Resp: 207365

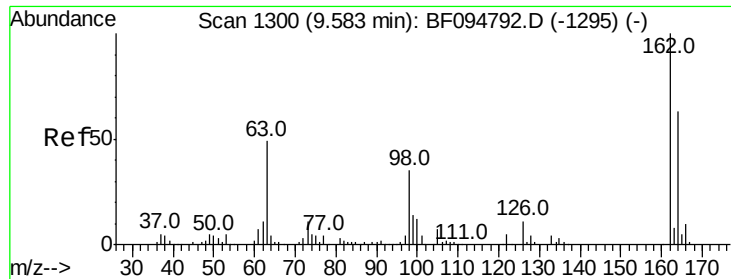
Ion Ratio Lower Upper

93 100

95 32.4 26.5 39.7

123 11.2 9.0 13.4

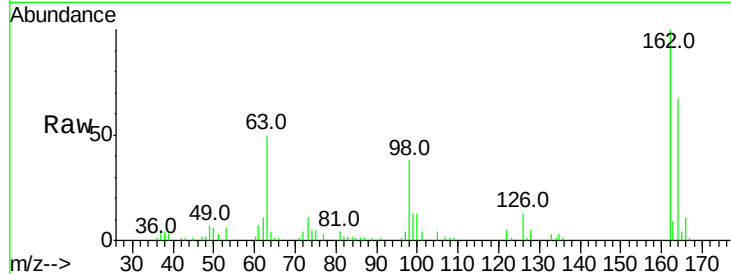




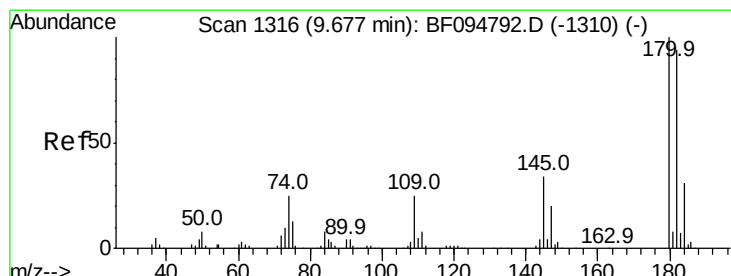
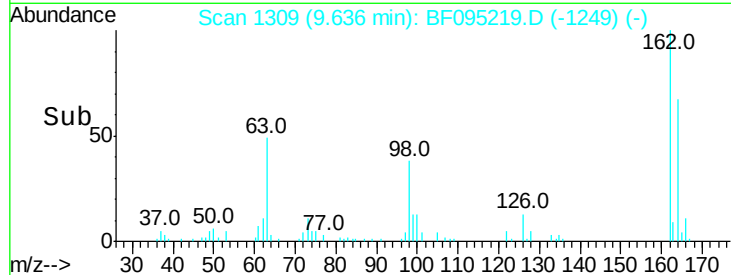
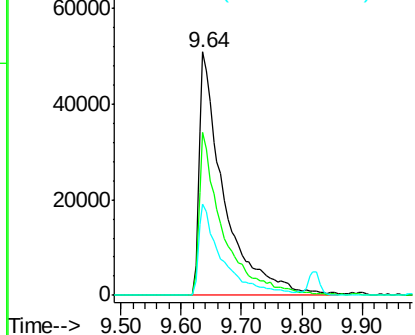
#29  
 2,4-Dichlorophenol  
 Concen: 36.78 ng  
 RT: 9.64 min Scan# 1309  
 Delta R.T. 0.05 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 66.8  | 44.6  | 84.6  |
| 98      | 37.7  | 14.8  | 54.8  |

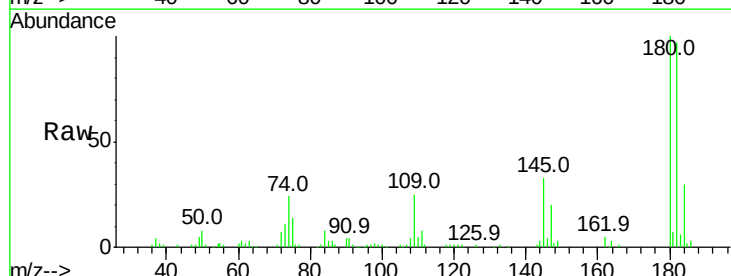


Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 164.00 (163.70 to 164.70): E  
 Ion 98.00 (97.70 to 98.70): BF0

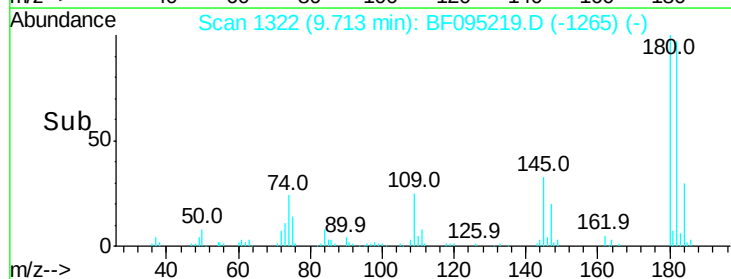
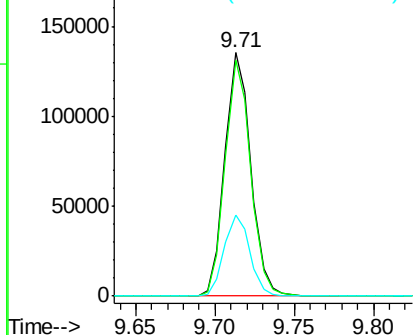


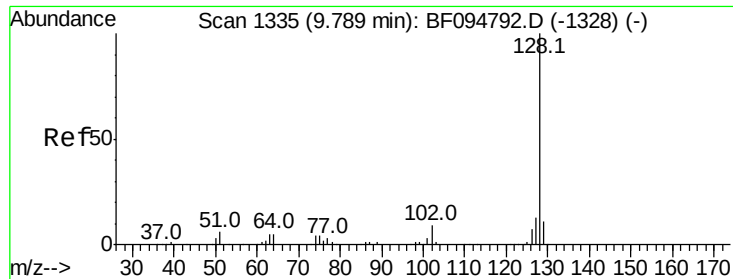
#30  
 1,2,4-Trichlorobenzene  
 Concen: 36.10 ng  
 RT: 9.71 min Scan# 1322  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.7  | 75.8  | 113.6 |
| 145     | 33.4  | 25.3  | 37.9  |



Abundance Ion 180.00 (179.70 to 180.70): E  
 Ion 182.00 (181.70 to 182.70): E  
 Ion 145.00 (144.70 to 145.70): E

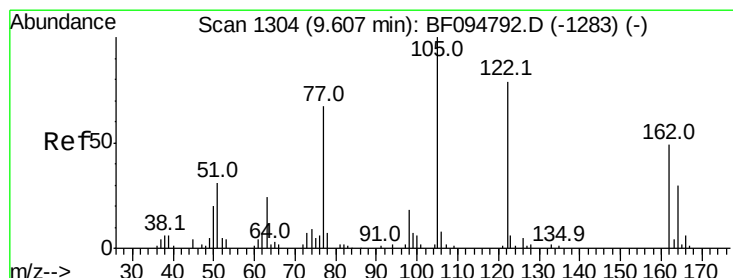
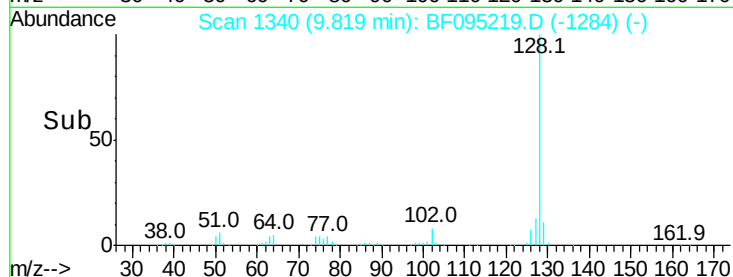
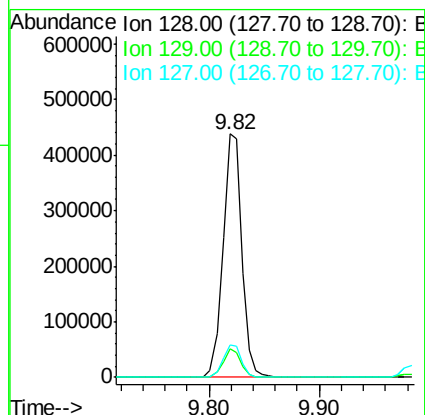
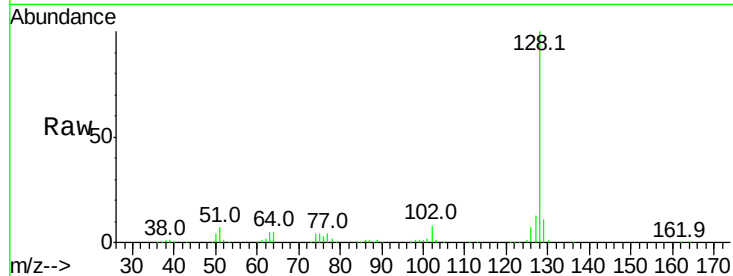




#31  
Naphthalene  
Concen: 35.72 ng  
RT: 9.82 min Scan# 1340  
Delta R.T. 0.03 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

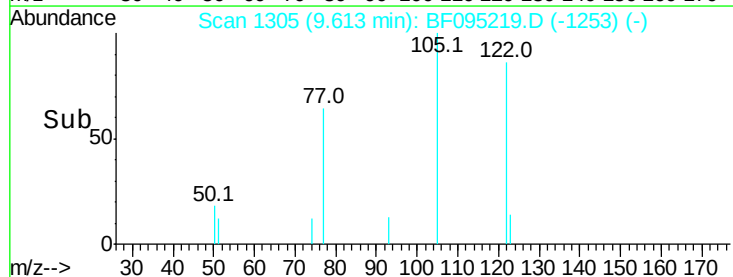
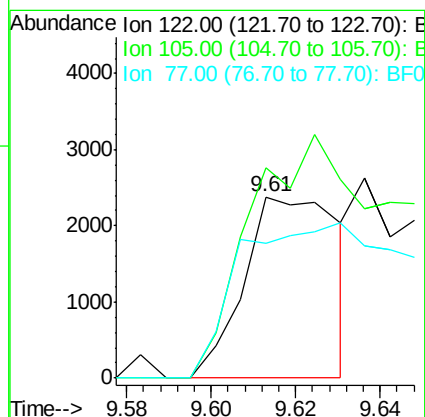
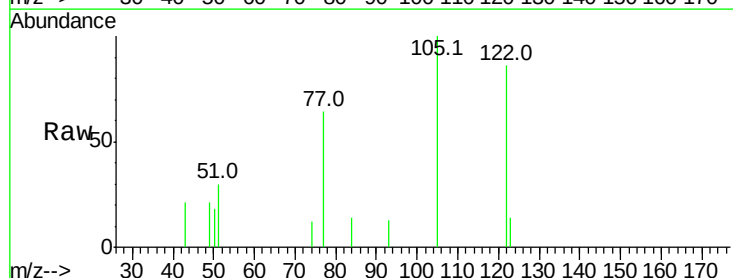
Instrument :  
BNA\_F  
ClientSampled :

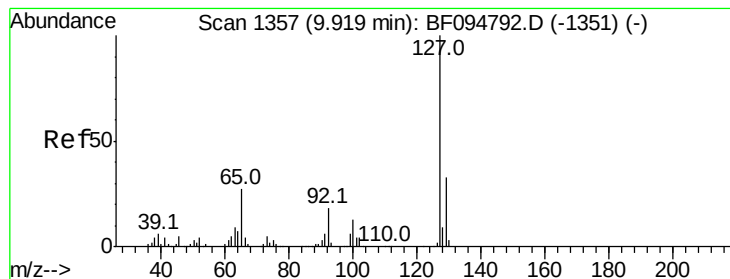
Tot Ion:128 Resp: 521302  
Ion Ratio Lower Upper  
128 100  
129 11.5 9.0 13.6  
127 13.3 10.8 16.2



#32  
Benzoic acid  
Concen: 6.28 ng  
RT: 9.61 min Scan# 1305  
Delta R.T. 0.01 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion:122 Resp: 3691  
Ion Ratio Lower Upper  
122 100  
105 115.8 103.3 143.3  
77 74.7 73.7 113.7





#33

4-Chloroaniline

Concen: 11.78 ng

RT: 9.98 min Scan# 1368

Delta R.T. 0.06 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:127 Resp: 64092

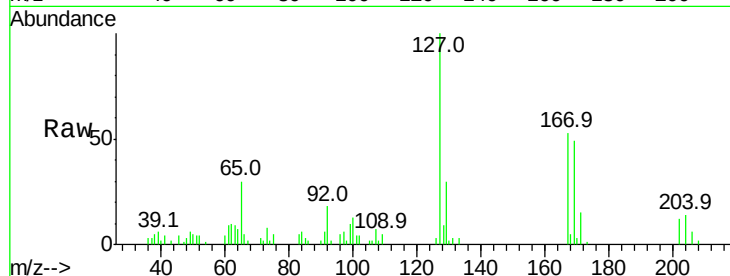
Ion Ratio Lower Upper

127 100

129 30.2 26.2 39.2

65 29.8 27.8 41.8

92 17.7 16.8 25.2

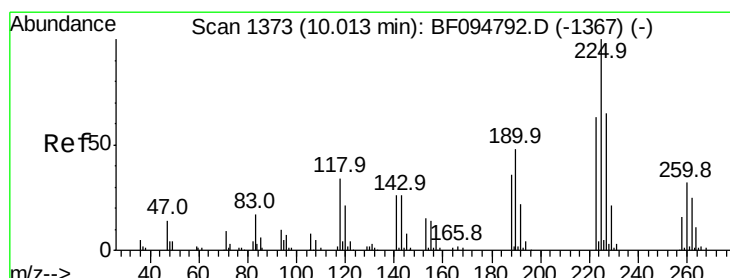
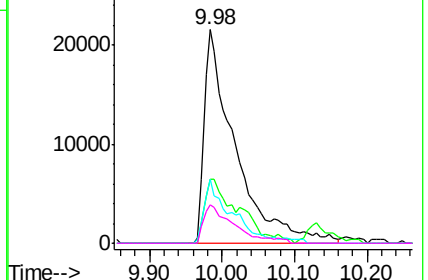
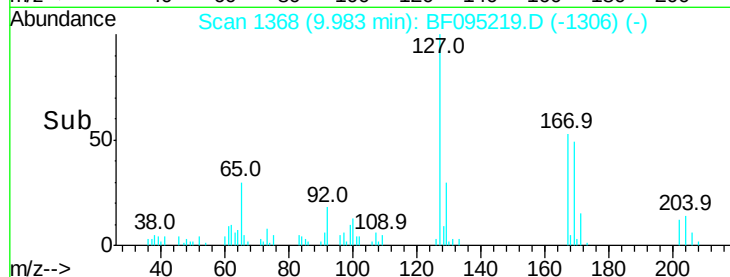


Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0



#34

Hexachlorobutadiene

Concen: 34.39 ng

RT: 10.04 min Scan# 1377

Delta R.T. 0.02 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

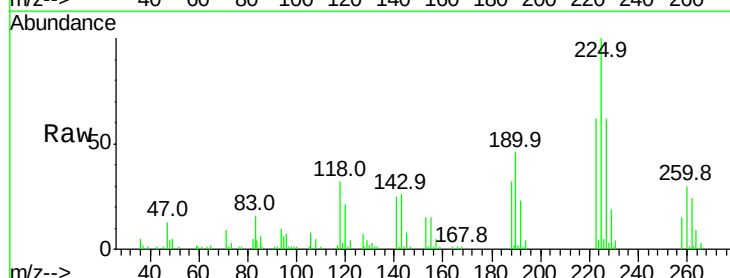
Tgt Ion:225 Resp: 77301

Ion Ratio Lower Upper

225 100

223 61.7 48.8 73.2

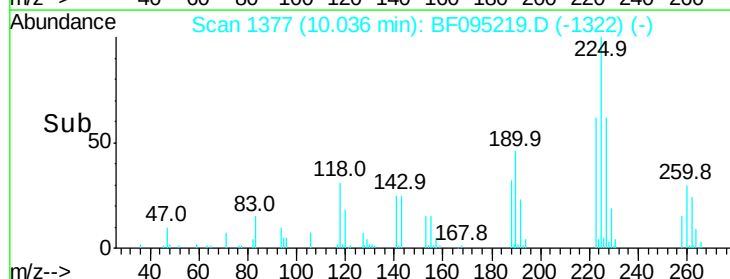
227 62.0 51.1 76.7



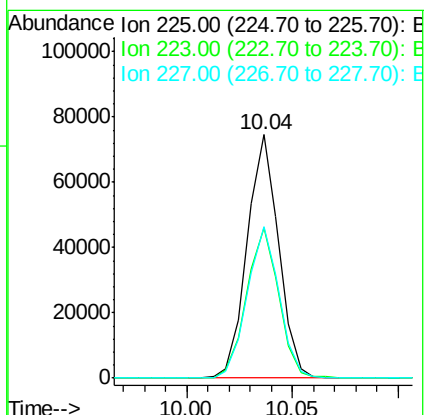
Abundance Ion 225.00 (224.70 to 225.70): E

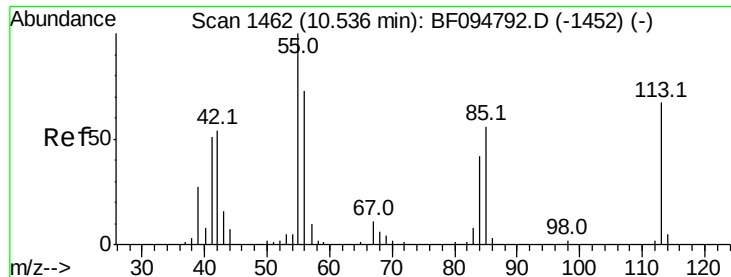
Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



Time-->





#35

Caprolactam

Concen: 21.99 ng

RT: 10.57 min Scan# 1467

Delta R.T. 0.03 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

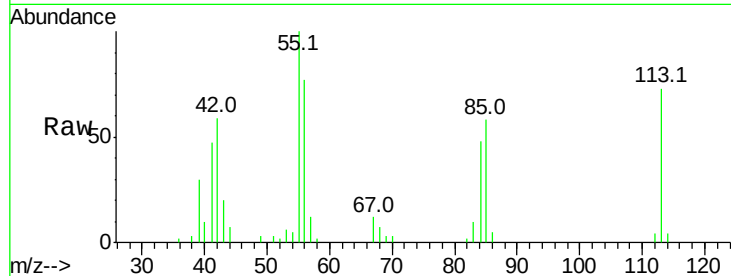
Tot Ion:113 Resp: 26259

Ion Ratio Lower Upper

113 100

55 136.3 150.2 190.2#

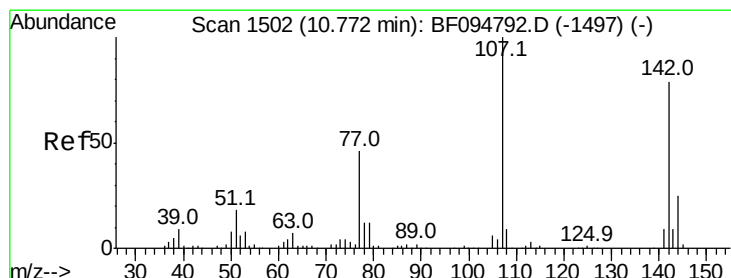
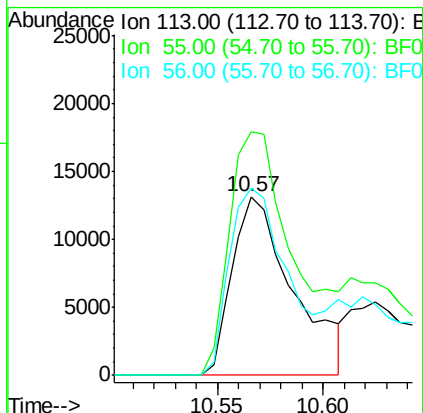
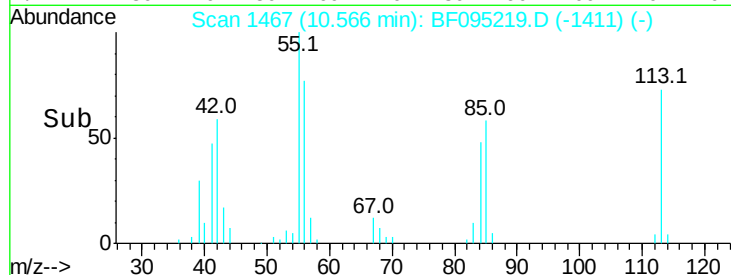
56 105.1 107.8 147.8#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#36

4-Chloro-3-methylphenol

Concen: 34.25 ng

RT: 10.82 min Scan# 1510

Delta R.T. 0.05 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

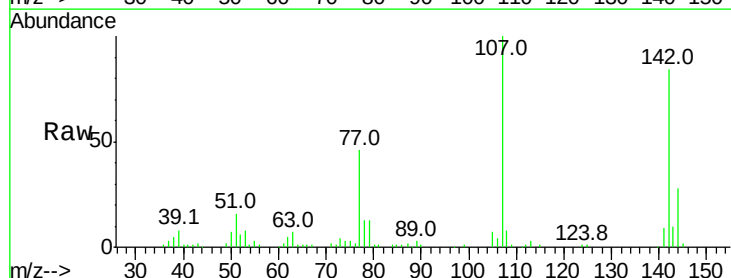
Tgt Ion:107 Resp: 145607

Ion Ratio Lower Upper

107 100

144 28.0 24.2 36.4

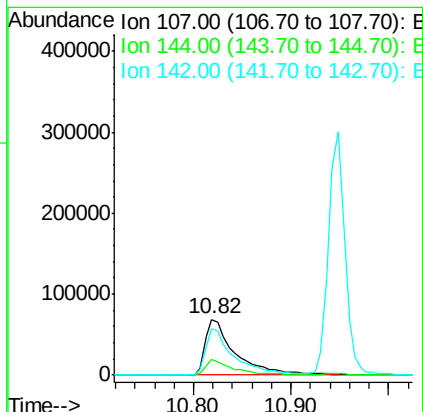
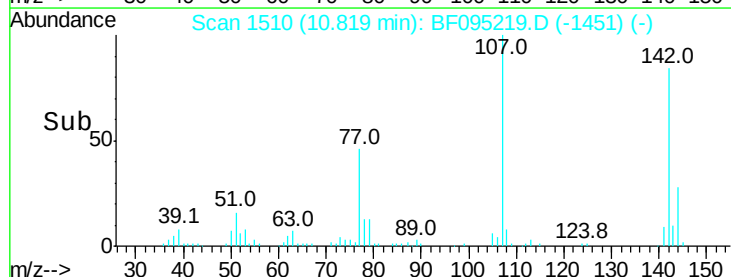
142 84.1 73.4 110.0

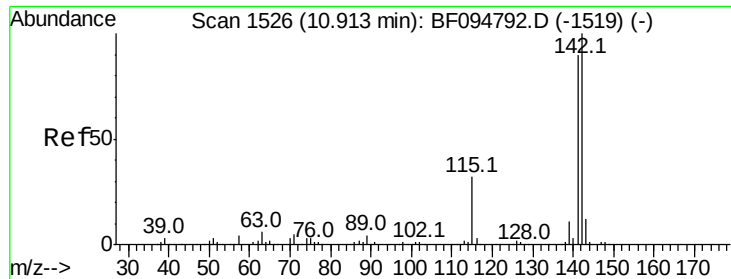


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

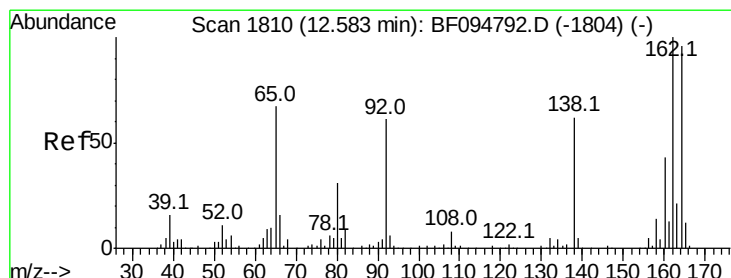
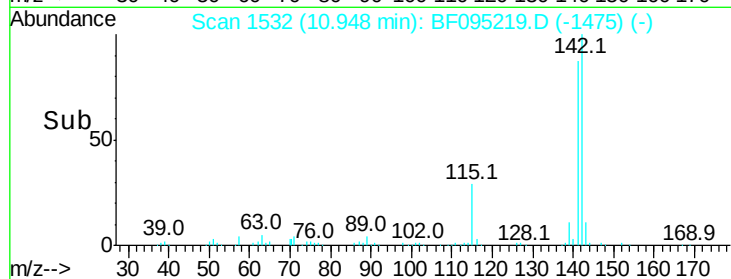
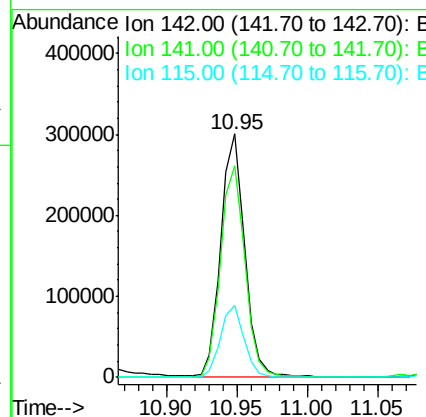
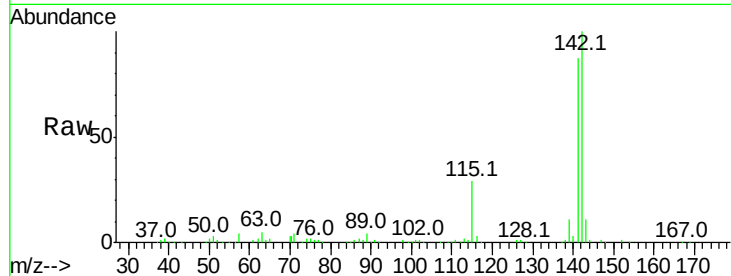




#37  
2-Methylnaphthalene  
Concen: 37.03 ng  
RT: 10.95 min Scan# 1532  
Delta R.T. 0.04 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

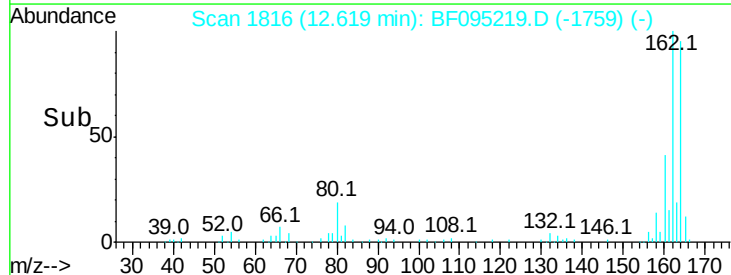
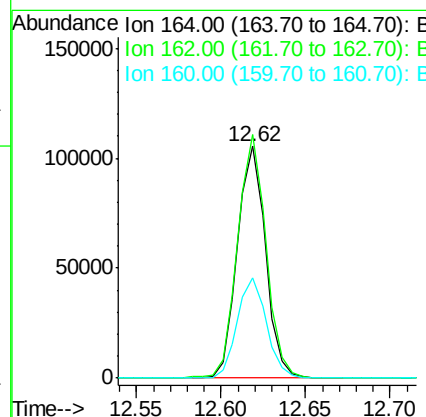
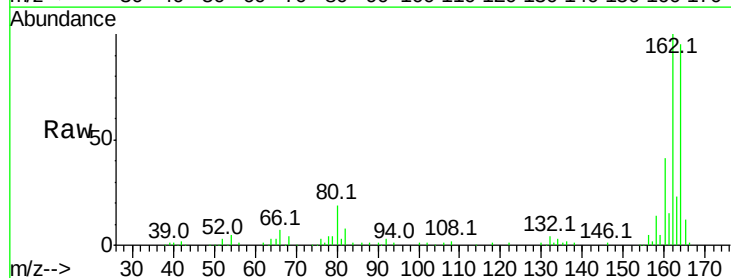
Instrument :  
BNA\_F  
ClientSampleId :

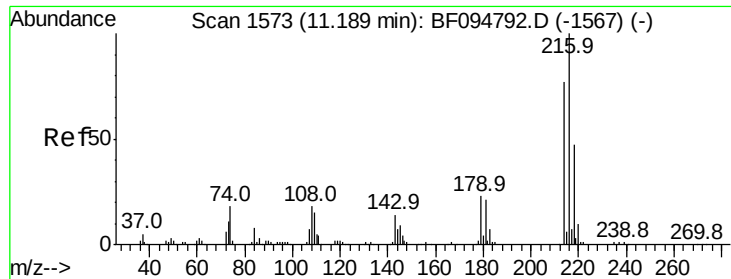
Tot Ion:142 Resp: 354654  
Ion Ratio Lower Upper  
142 100  
141 86.9 71.3 106.9  
115 29.5 27.1 40.7



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 12.62 min Scan# 1816  
Delta R.T. 0.04 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion:164 Resp: 121704  
Ion Ratio Lower Upper  
164 100  
162 105.1 82.6 123.8  
160 43.3 36.2 54.2





#39

1,2,4,5-Tetrachlorobenzene

Concen: 37.06 ng

RT: 11.22 min Scan# 1579

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:216 Resp: 138700

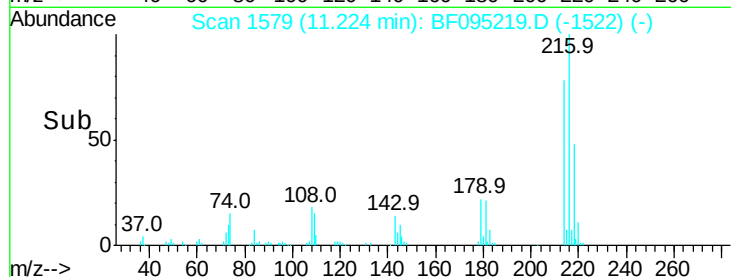
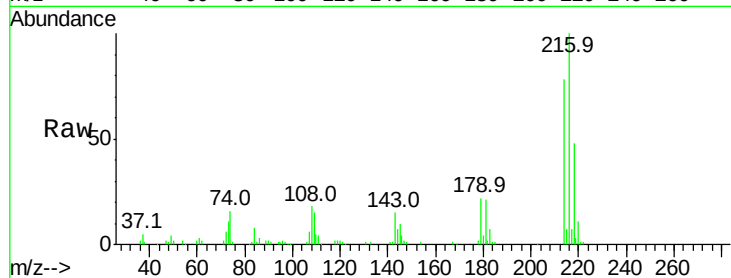
Ion Ratio Lower Upper

216 100

214 79.7 63.4 95.2

179 21.9 17.9 26.9

108 17.8 16.5 24.7

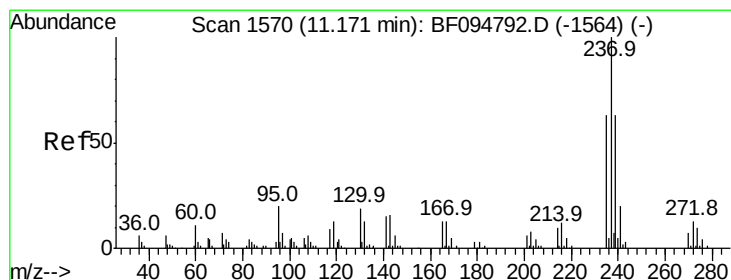
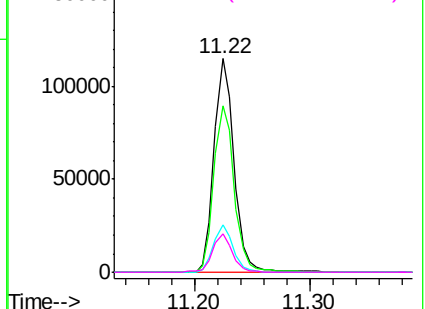


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 13.23 ng

RT: 11.20 min Scan# 1574

Delta R.T. 0.02 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

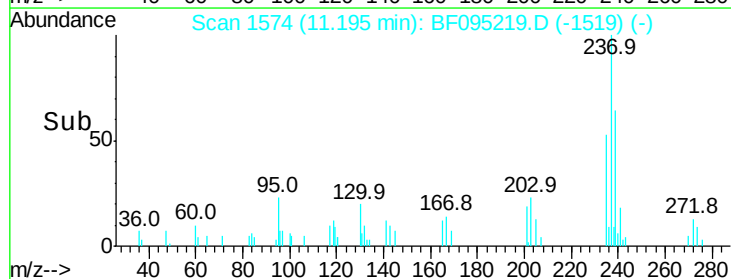
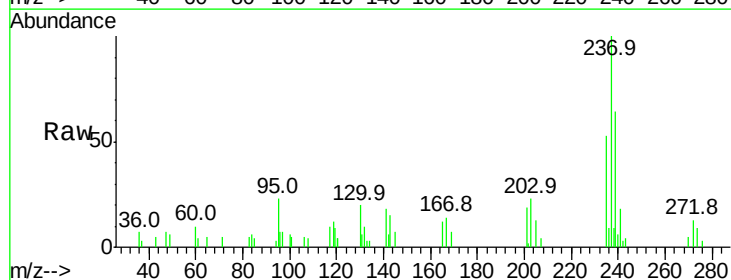
Tgt Ion:237 Resp: 12218

Ion Ratio Lower Upper

237 100

235 53.0 42.6 82.6

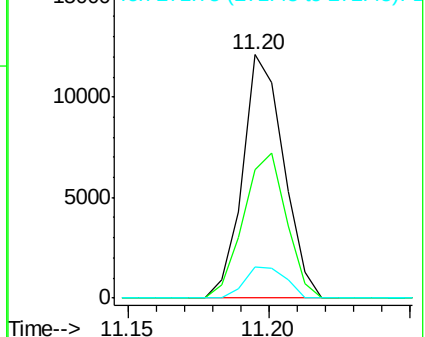
272 12.8 0.0 31.9



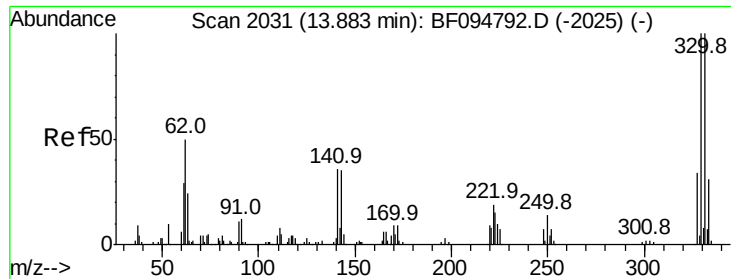
Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E



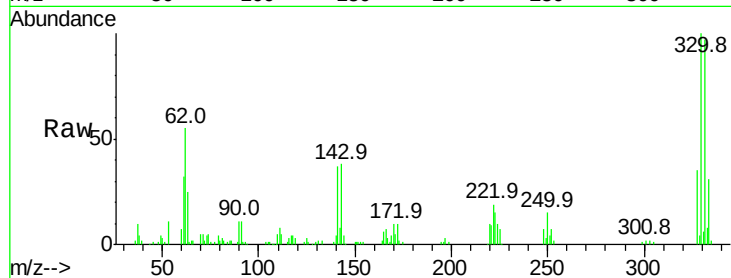




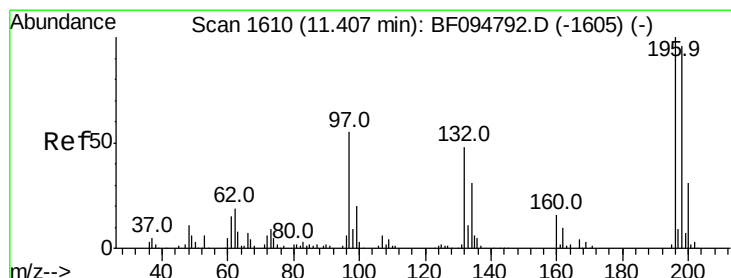
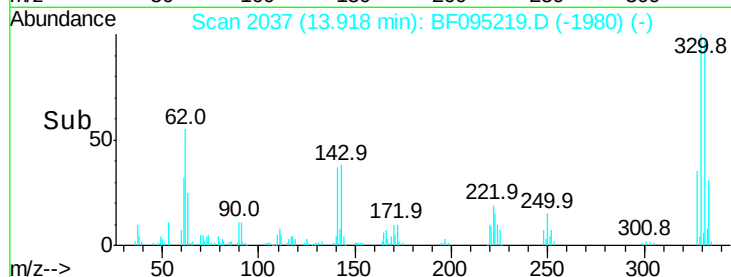
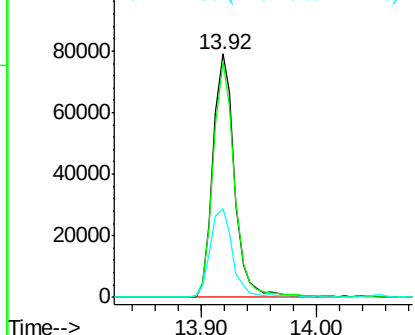
#41  
 2,4,6-Tribromophenol  
 Concen: 103.30 ng  
 RT: 13.92 min Scan# 2037  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 102962  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 76.6 115.0  
 141 38.2 31.4 47.2

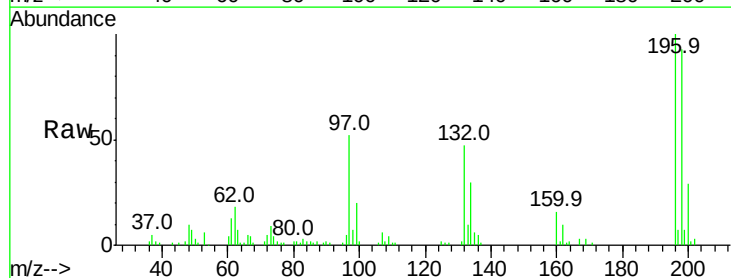


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

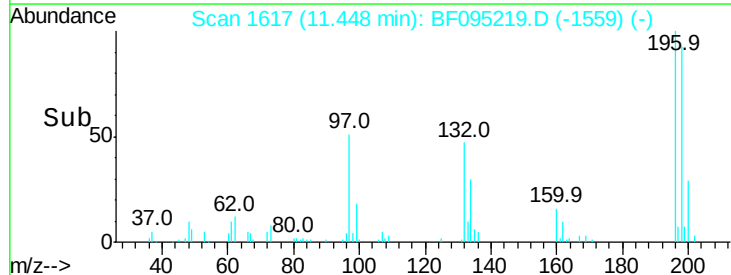
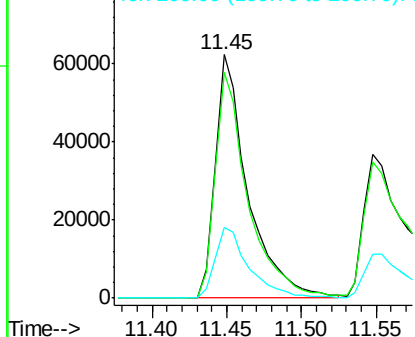


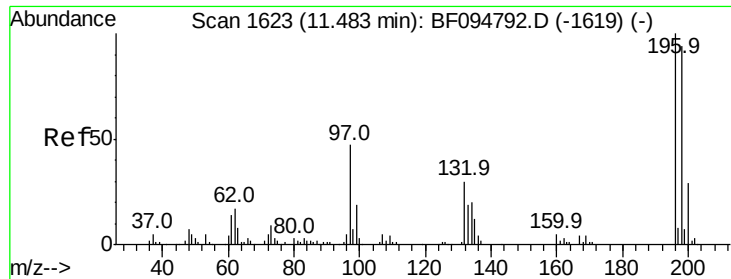
#42  
 2,4,6-Trichlorophenol  
 Concen: 37.94 ng  
 RT: 11.45 min Scan# 1617  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Tgt Ion:196 Resp: 94819  
 Ion Ratio Lower Upper  
 196 100  
 198 92.7 74.2 111.4  
 200 29.0 24.0 36.0



Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E

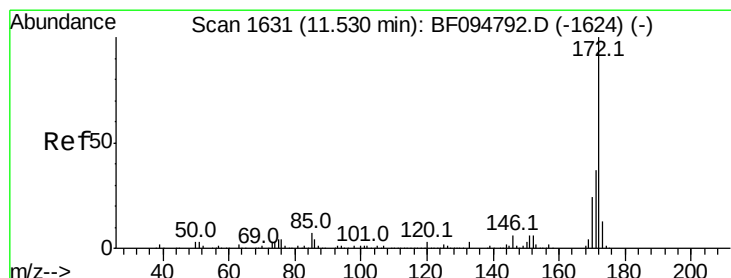
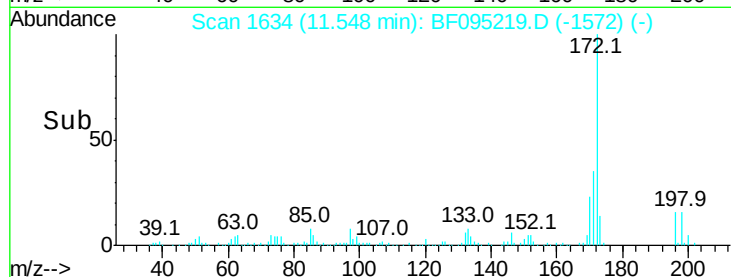
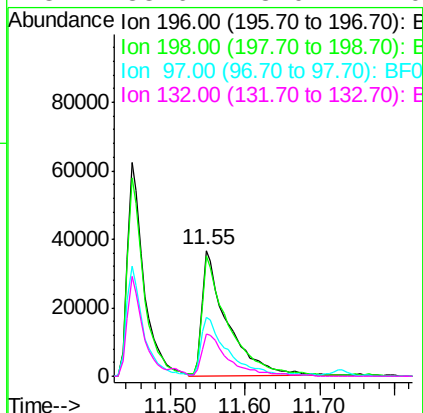
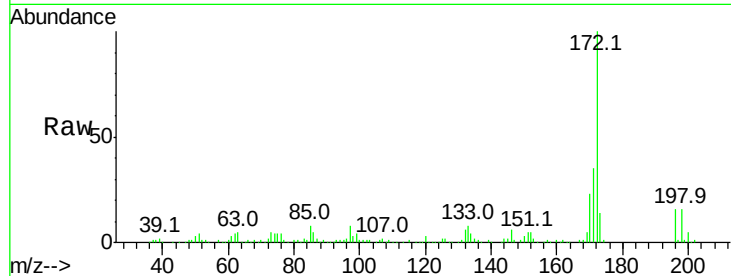




#43  
 2,4,5-Trichlorophenol  
 Concen: 32.26 ng  
 RT: 11.55 min Scan# 1634  
 Delta R.T. 0.06 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

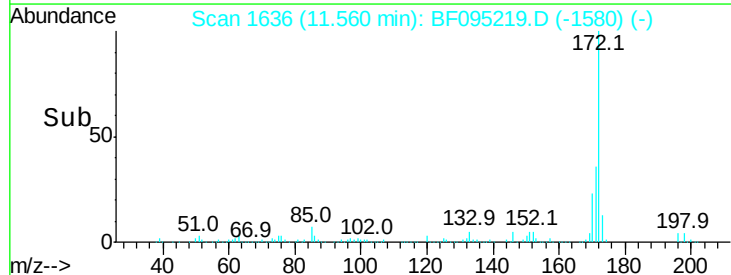
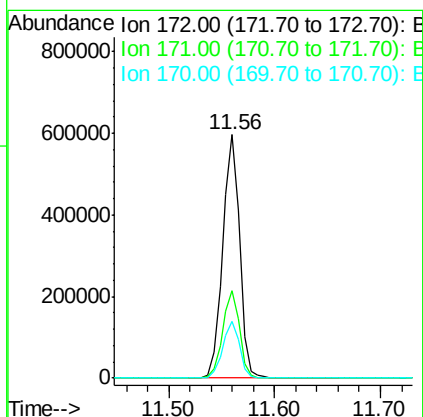
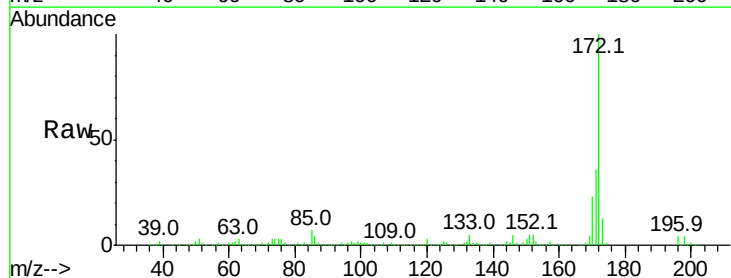
Instrument :  
 BNA\_F  
 ClientSampleId :

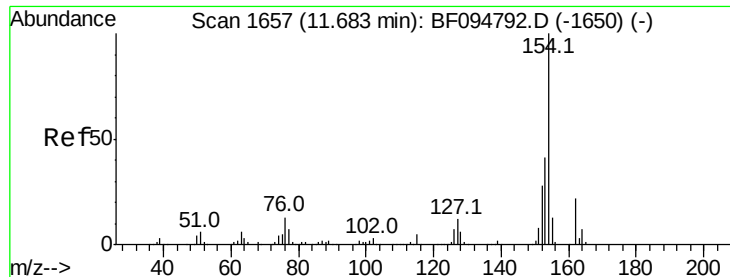
Tot Ion:196 Resp: 86641  
 Ion Ratio Lower Upper  
 196 100  
 198 95.0 75.7 113.5  
 97 46.7 47.7 71.5#  
 132 33.6 28.0 42.0



#44  
 2-Fluorobiphenyl  
 Concen: 78.98 ng  
 RT: 11.56 min Scan# 1636  
 Delta R.T. 0.03 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Tgt Ion:172 Resp: 667846  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.6 44.4  
 170 23.4 19.8 29.8





#45

1,1'-Biphenyl

Concen: 38.78 ng

RT: 11.71 min Scan# 1662

Delta R.T. 0.03 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

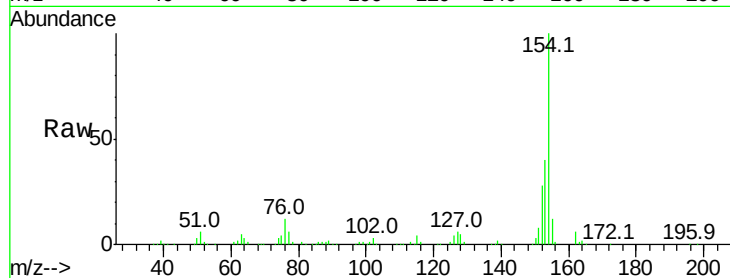
Tot Ion:154 Resp: 397350

Ion Ratio Lower Upper

154 100

153 40.0 21.2 61.2

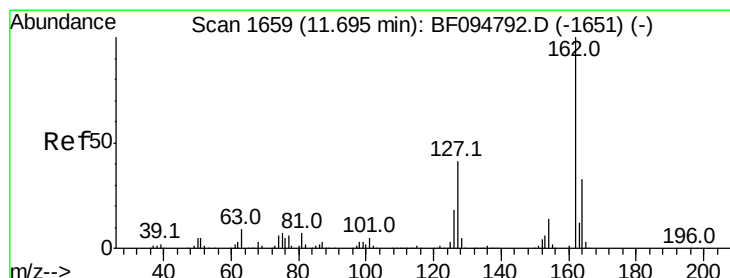
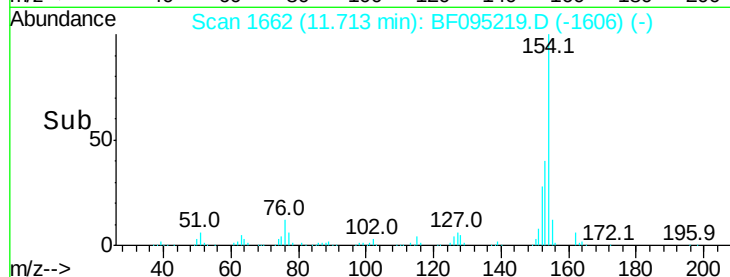
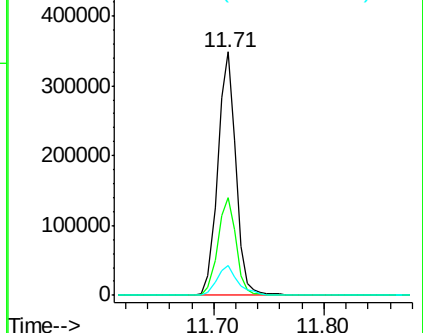
76 12.2 0.0 29.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#46

2-Chloronaphthalene

Concen: 37.02 ng

RT: 11.73 min Scan# 1665

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

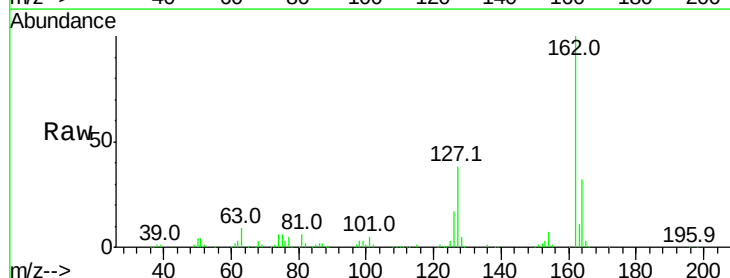
Tgt Ion:162 Resp: 306263

Ion Ratio Lower Upper

162 100

127 38.5 28.3 42.5

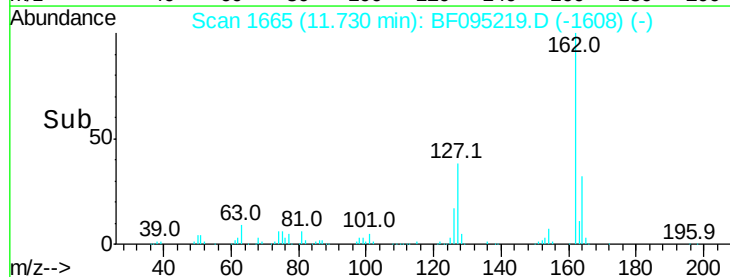
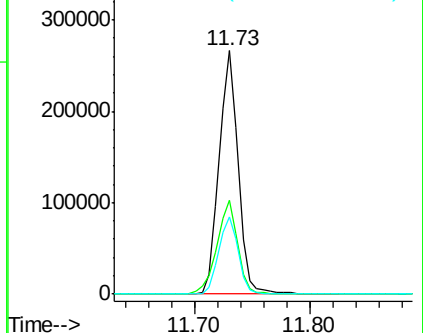
164 31.9 27.0 40.4

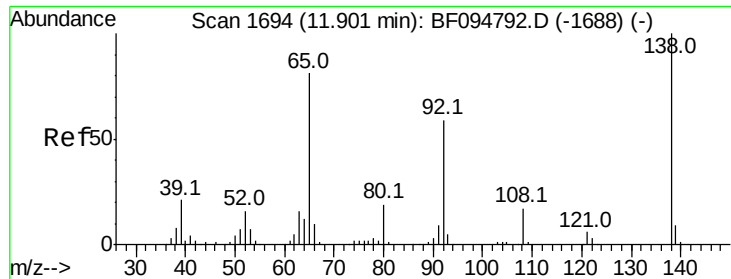


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E

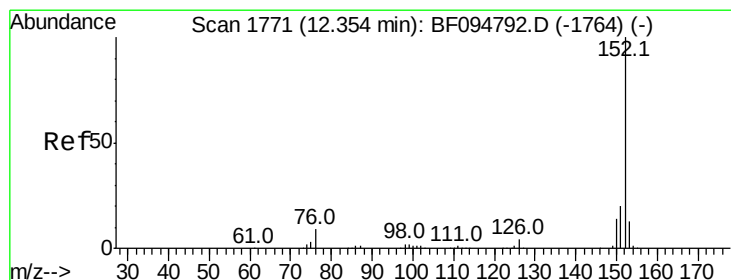
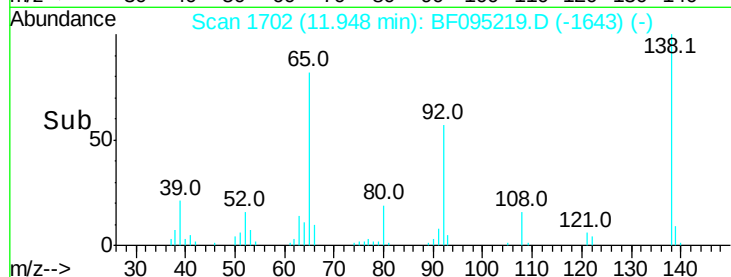
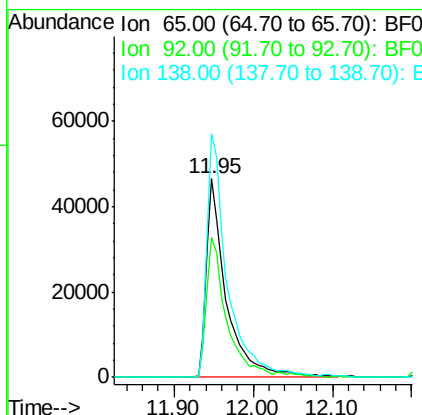
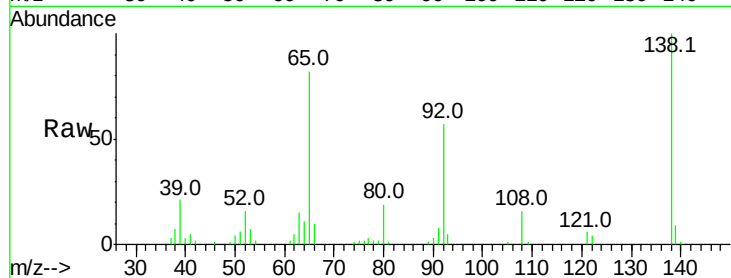




#47  
 2-Nitroaniline  
 Concen: 36.19 ng  
 RT: 11.95 min Scan# 1702  
 Delta R.T. 0.05 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

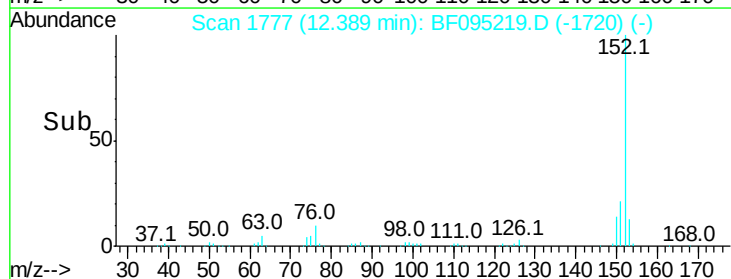
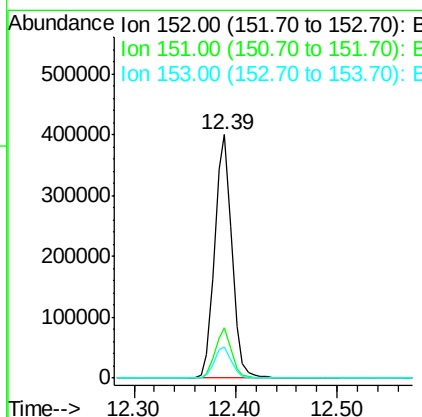
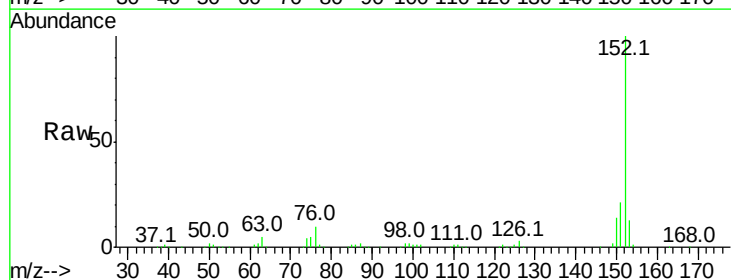
Instrument :  
 BNA\_F  
 ClientSampled :

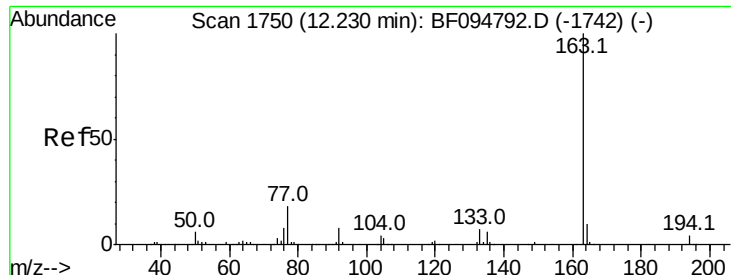
Tot Ion: 65 Resp: 81964  
 Ion Ratio Lower Upper  
 65 100  
 92 70.3 53.9 80.9  
 138 122.5 78.8 118.2#



#48  
 Acenaphthylene  
 Concen: 36.33 ng  
 RT: 12.39 min Scan# 1777  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Tgt Ion: 152 Resp: 470872  
 Ion Ratio Lower Upper  
 152 100  
 151 20.8 16.8 25.2  
 153 12.7 10.8 16.2





#49

Dimethylphthalate

Concen: 49.50 ng

RT: 12.26 min Scan# 1755

Delta R.T. 0.03 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampled :

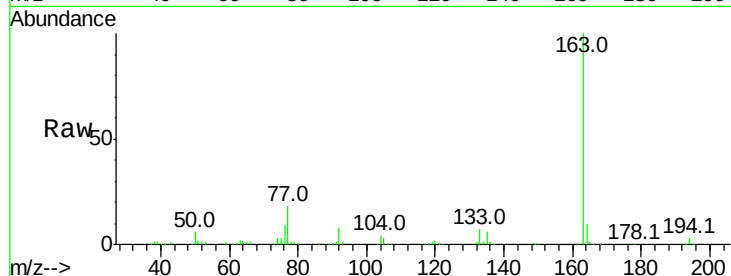
Tot Ion:163 Resp: 494562

Ion Ratio Lower Upper

163 100

194 3.5 2.6 4.0

164 10.1 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

12.26

400000

300000

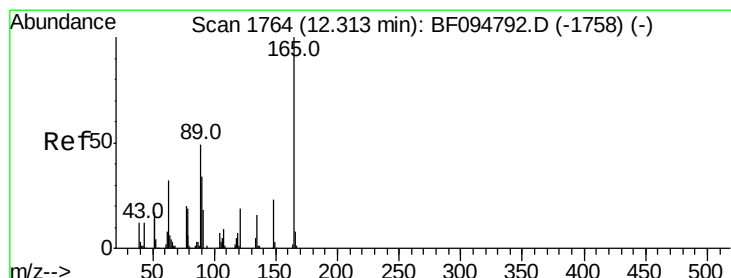
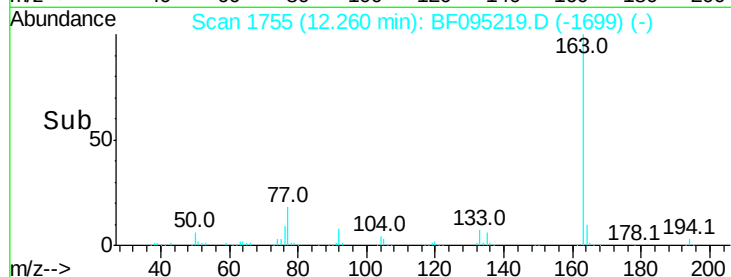
200000

100000

0

Time-->

12.20 12.30 12.40



#50

2,6-Dinitrotoluene

Concen: 35.98 ng

RT: 12.35 min Scan# 1771

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

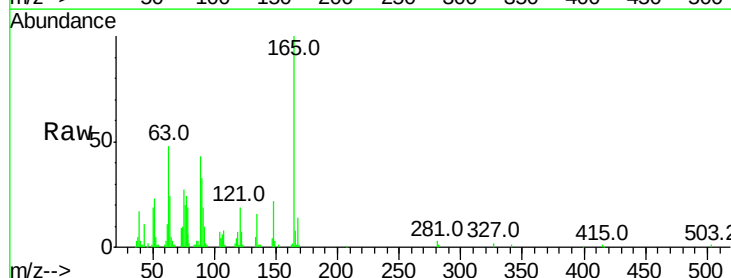
Tgt Ion:165 Resp: 73345

Ion Ratio Lower Upper

165 100

63 48.2 34.3 51.5

89 42.6 37.1 55.7



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

12.35

100000

80000

60000

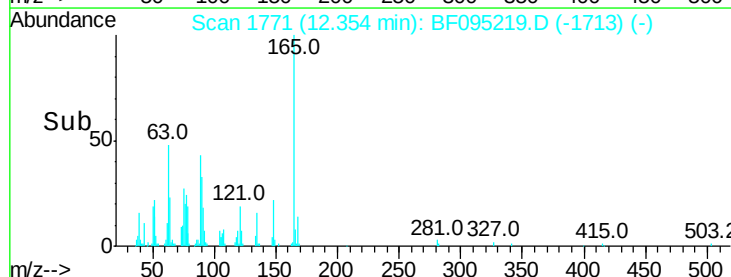
40000

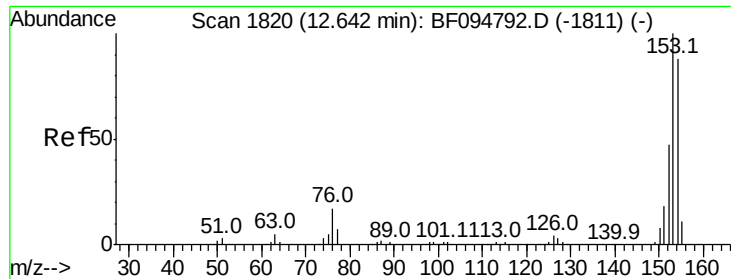
20000

0

Time-->

12.30 12.35 12.40





#51

Acenaphthene

Concen: 36.01 ng

RT: 12.67 min Scan# 1825

Delta R.T. 0.03 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

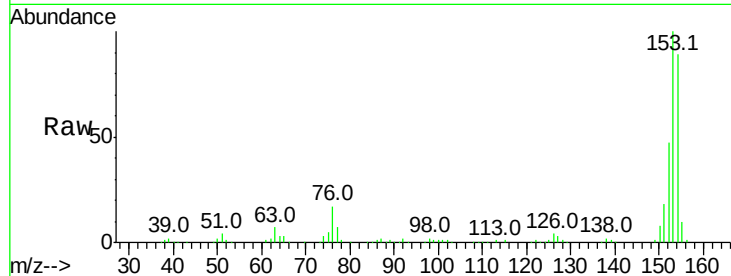
Tot Ion:154 Resp: 278766

Ion Ratio Lower Upper

154 100

153 112.4 90.5 135.7

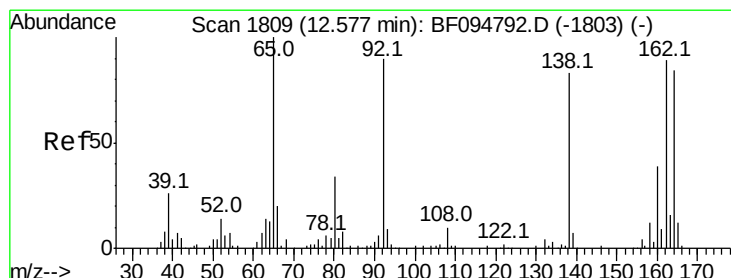
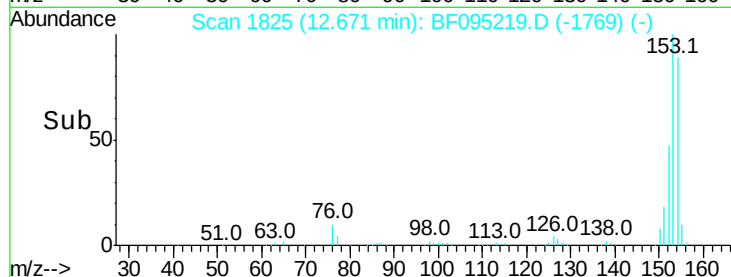
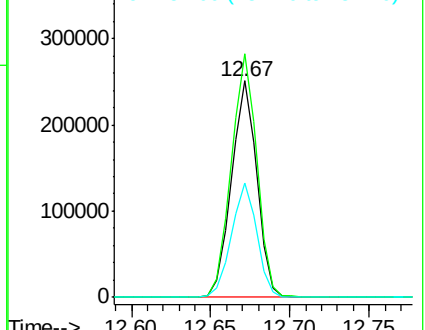
152 53.1 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 25.64 ng

RT: 12.63 min Scan# 1818

Delta R.T. 0.05 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

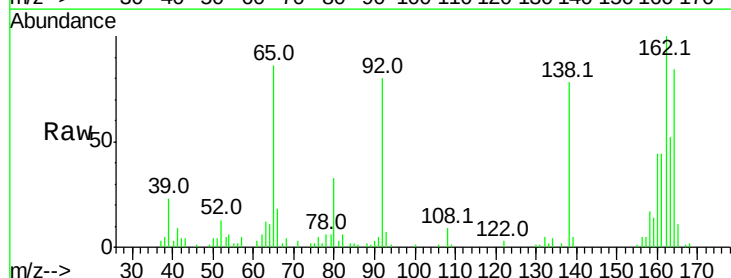
Tgt Ion:138 Resp: 56092

Ion Ratio Lower Upper

138 100

108 12.2 9.1 13.7

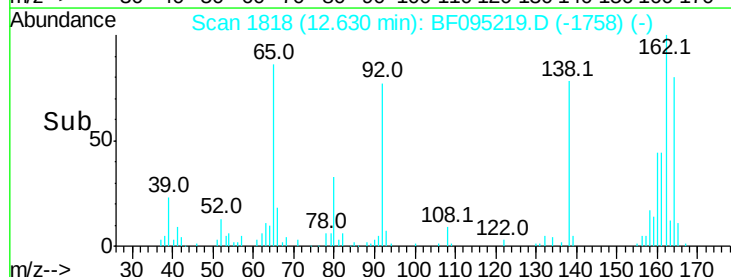
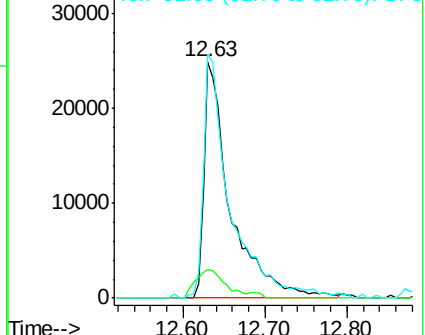
92 103.1 93.8 140.6

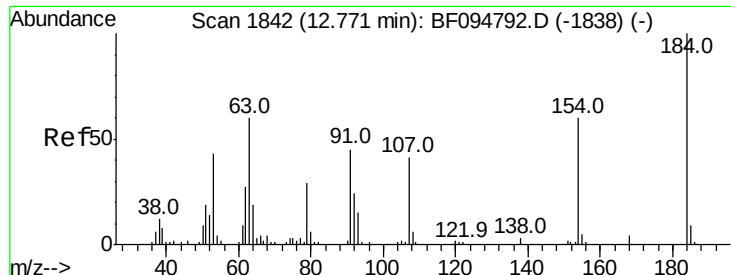


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0

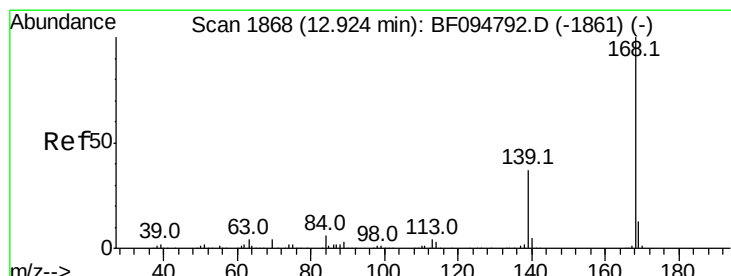
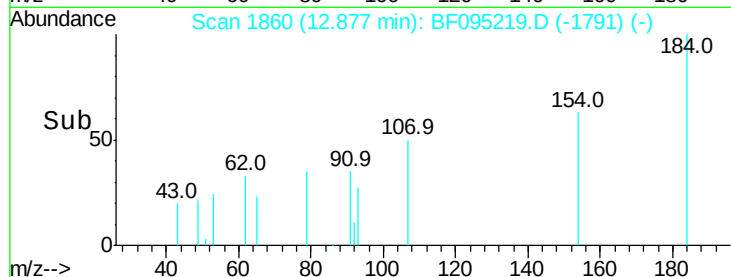
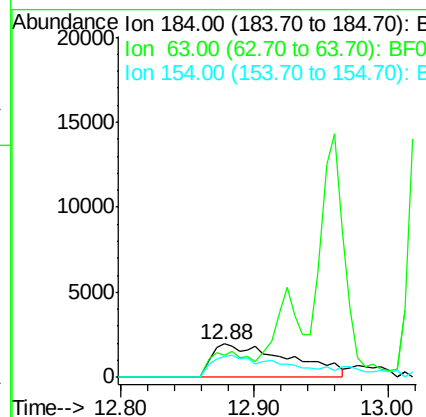
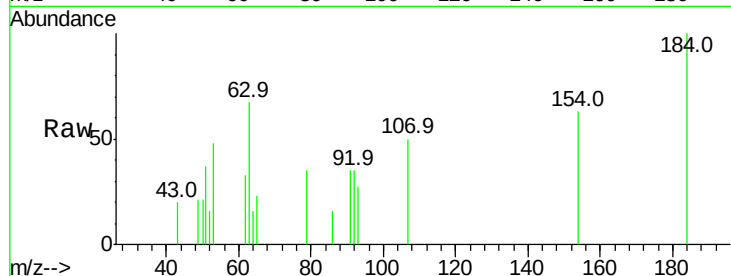




#53  
 2,4-Dinitrophenol  
 Concen: 12.74 ng  
 RT: 12.88 min Scan# 1860  
 Delta R.T. 0.11 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

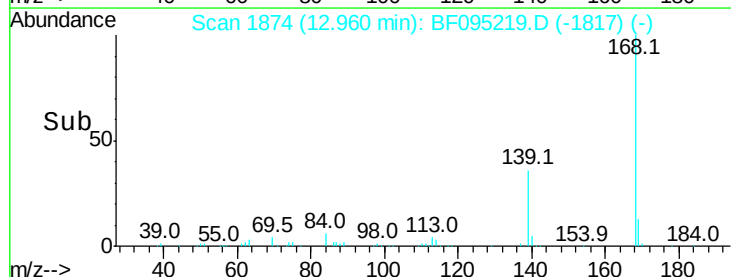
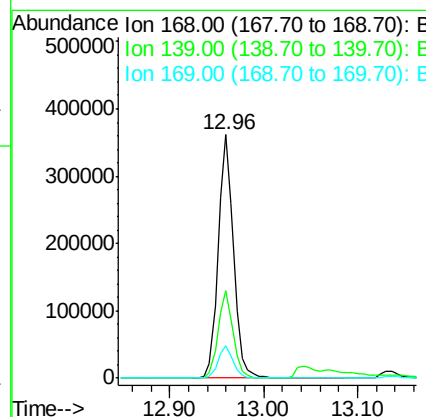
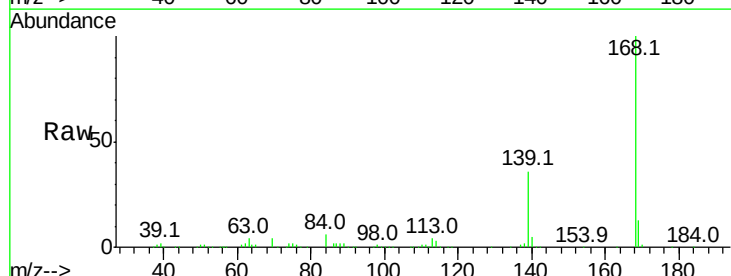
Instrument :  
 BNA\_F  
 ClientSampled :

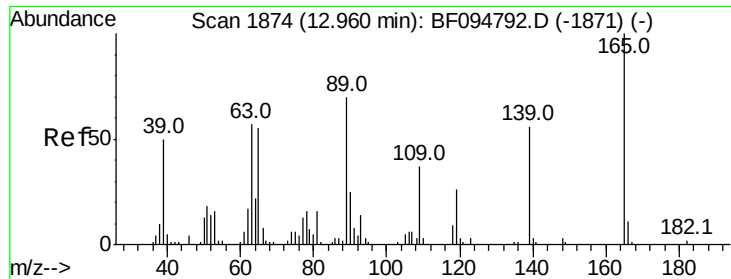
Tot Ion:184 Resp: 7906  
 Ion Ratio Lower Upper  
 184 100  
 63 67.3 62.7 94.1  
 154 63.0 81.1 121.7#



#54  
 Dibenzofuran  
 Concen: 38.86 ng  
 RT: 12.96 min Scan# 1874  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Tgt Ion:168 Resp: 416229  
 Ion Ratio Lower Upper  
 168 100  
 139 35.9 30.6 45.8  
 169 13.4 10.8 16.2

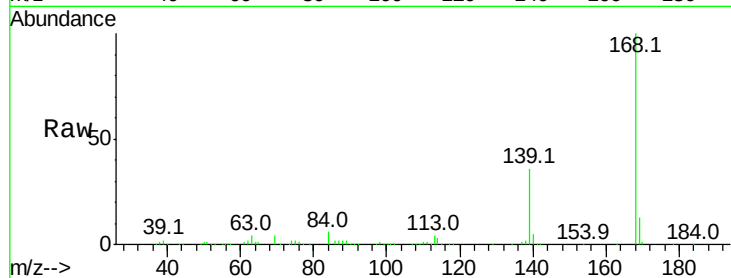




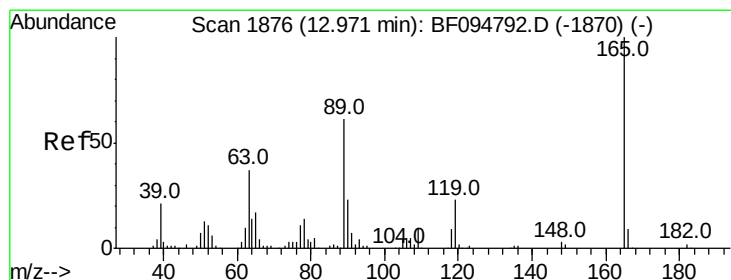
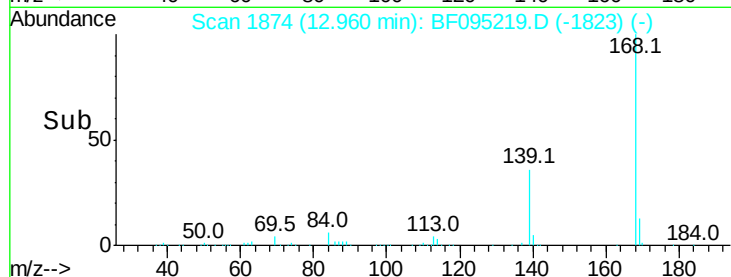
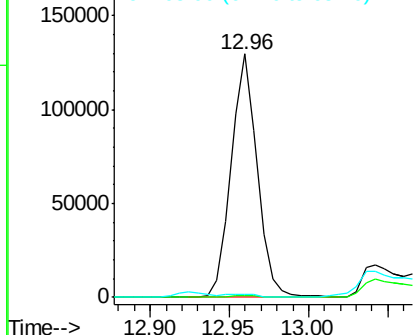
#55  
4-Nitrophenol  
Concen: 112.48 ng  
RT: 12.96 min Scan# 1874  
Delta R.T. 0.00 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:139 Resp: 147796  
Ion Ratio Lower Upper  
139 100  
109 0.6 34.1 74.1#  
65 1.5 31.4 71.4#

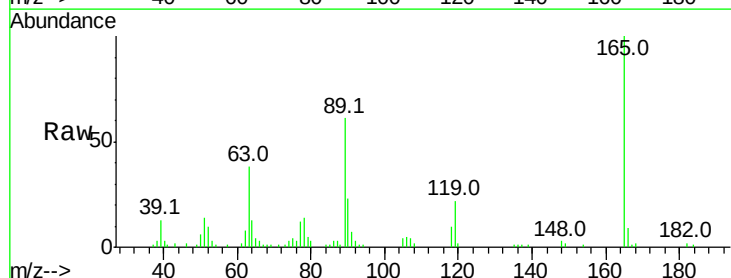


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF0

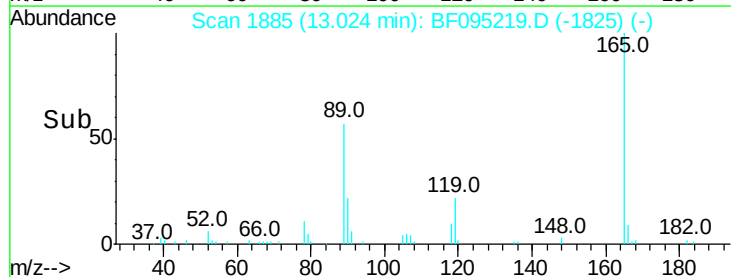
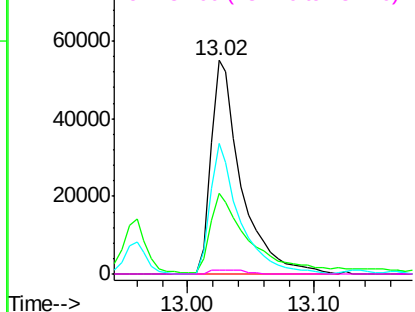


#56  
2,4-Dinitrotoluene  
Concen: 35.07 ng  
RT: 13.02 min Scan# 1885  
Delta R.T. 0.05 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

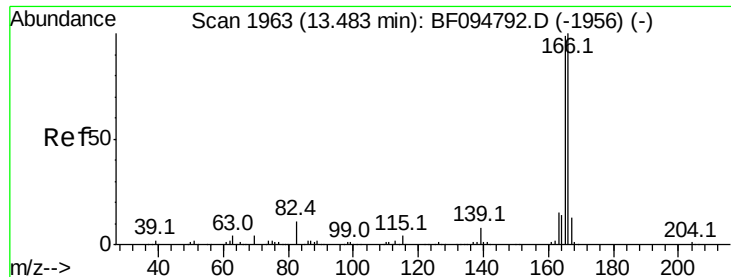
Tgt Ion:165 Resp: 91863  
Ion Ratio Lower Upper  
165 100  
63 37.6 25.4 38.0  
89 61.1 46.4 69.6  
182 2.1 1.8 2.6



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0  
Ion 182.00 (181.70 to 182.70): E



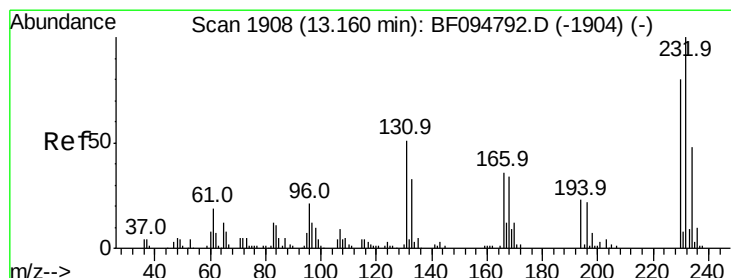
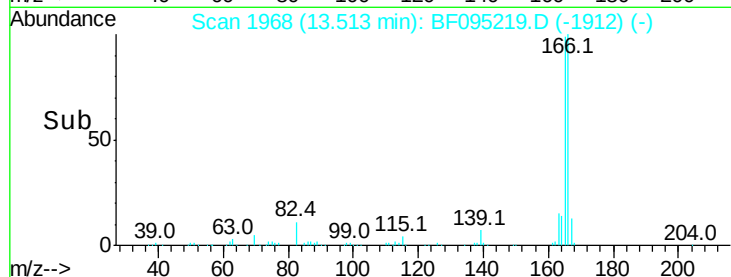
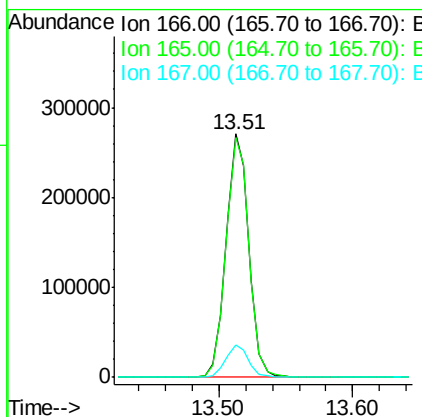
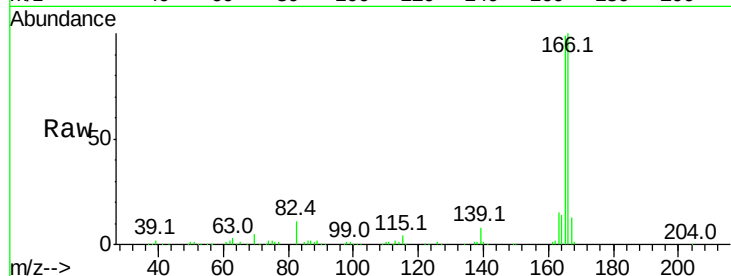




#57  
 Fluorene  
 Concen: 34.87 ng  
 RT: 13.51 min Scan# 1968  
 Delta R.T. 0.03 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

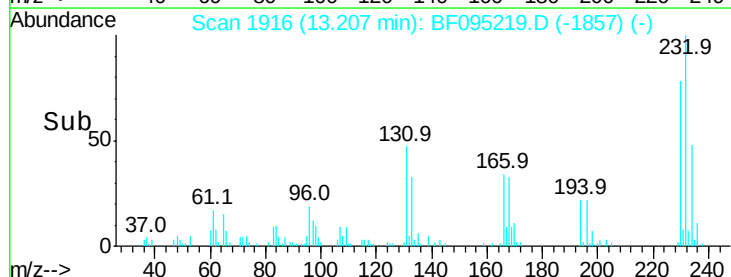
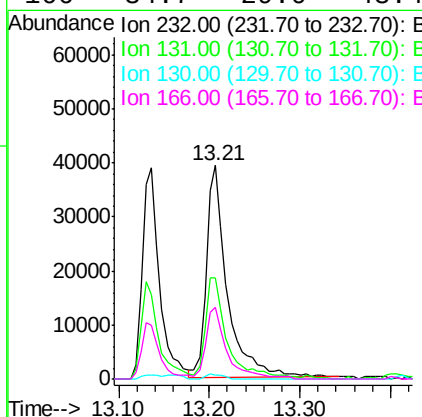
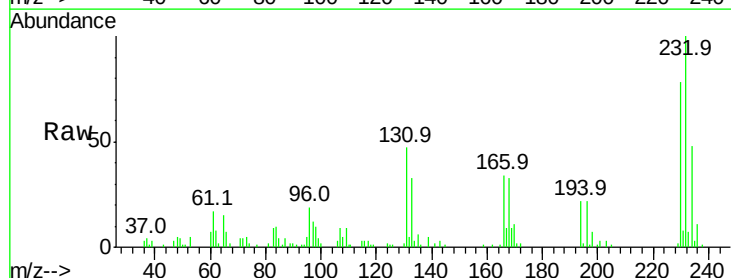
Instrument :  
 BNA\_F  
 ClientSampleId :

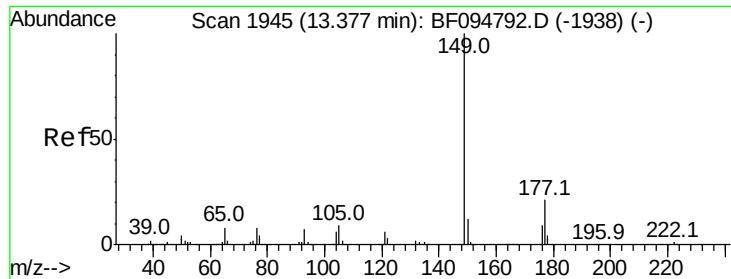
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.7  | 78.8  | 118.2 |
| 167     | 13.1  | 10.6  | 16.0  |



#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 37.85 ng  
 RT: 13.21 min Scan# 1916  
 Delta R.T. 0.05 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 47.6  | 44.8  | 67.2  |
| 130     | 1.8   | 2.3   | 3.5   |
| 166     | 34.7  | 29.0  | 43.4  |

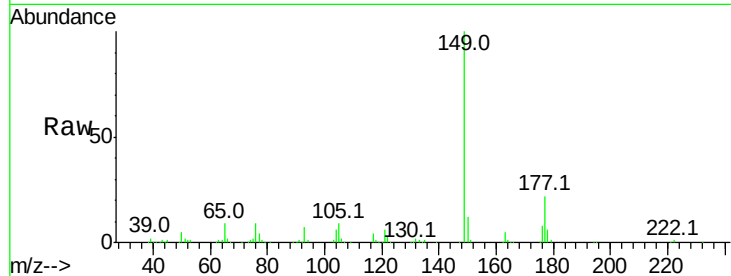




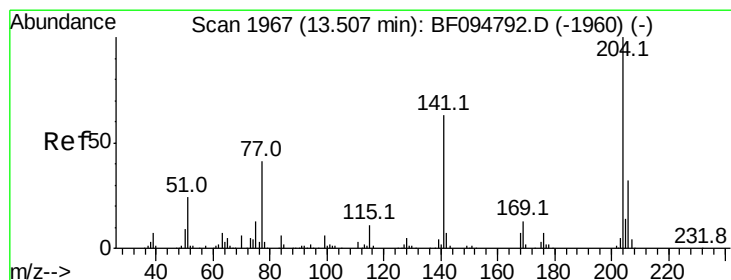
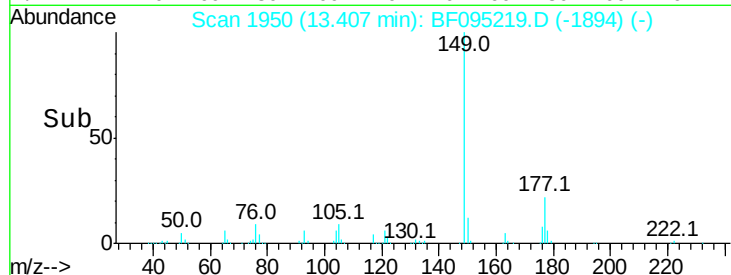
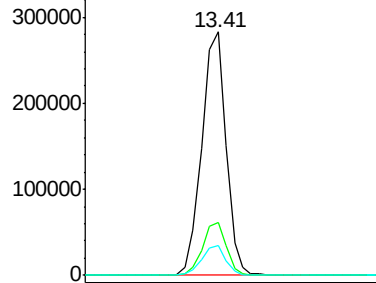
#59  
Diethylphthalate  
Concen: 35.36 ng  
RT: 13.41 min Scan# 1950  
Delta R.T. 0.03 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:149 Resp: 338660  
Ion Ratio Lower Upper  
149 100  
177 21.7 16.7 25.1  
150 12.1 10.2 15.2

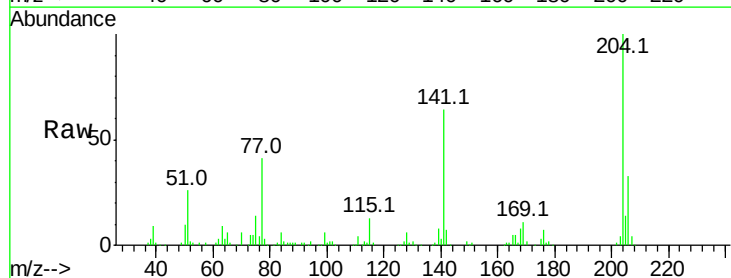


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

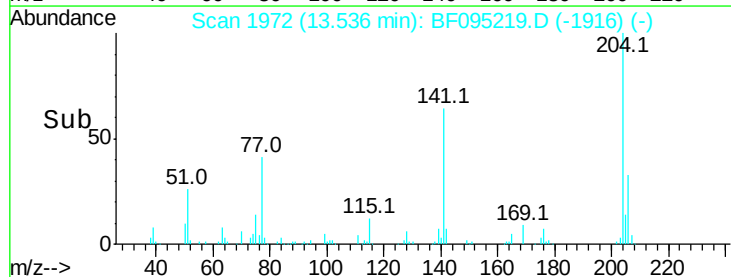
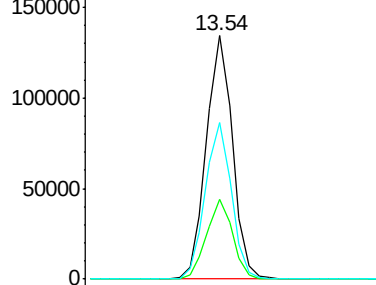


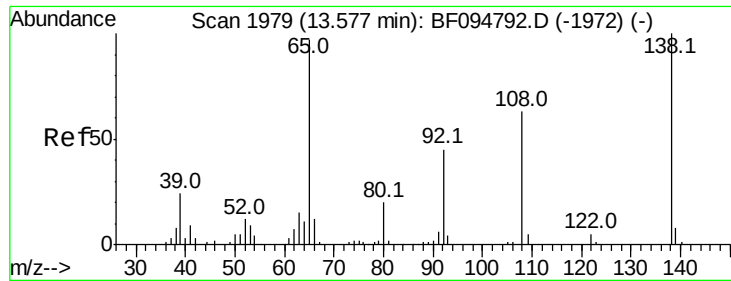
#60  
4-Chlorophenyl-phenylether  
Concen: 35.41 ng  
RT: 13.54 min Scan# 1972  
Delta R.T. 0.03 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion:204 Resp: 144965  
Ion Ratio Lower Upper  
204 100  
206 32.8 26.2 39.2  
141 64.4 60.8 91.2



Abundance Ion 204.00 (203.70 to 204.70): E  
Ion 206.00 (205.70 to 206.70): E  
Ion 141.00 (140.70 to 141.70): E

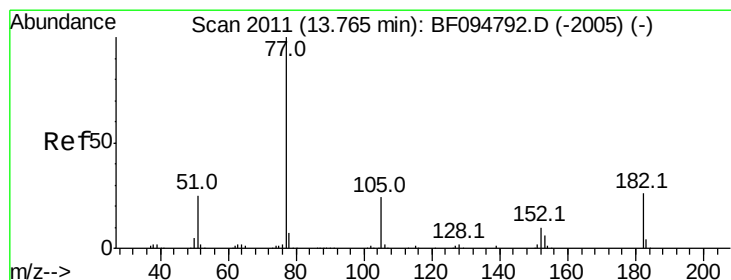
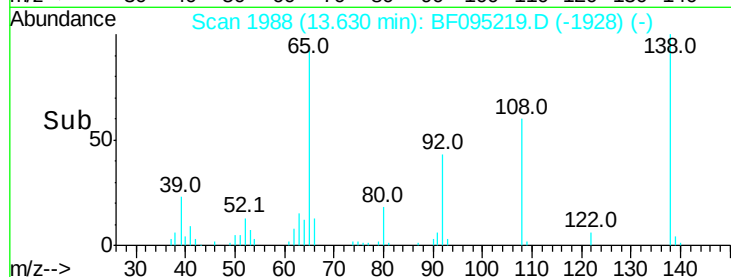
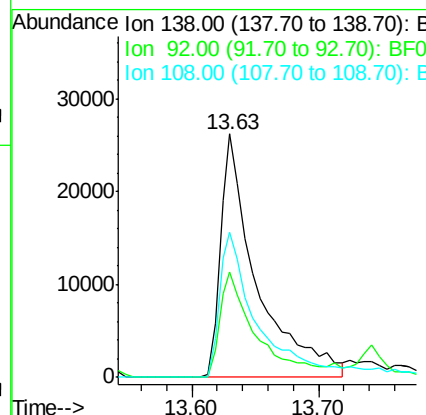
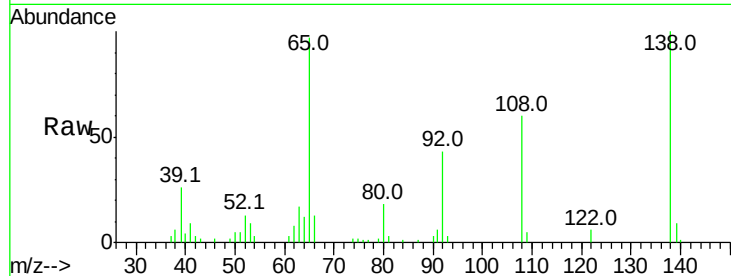




#61  
4-Nitroaniline  
Concen: 25.95 ng  
RT: 13.63 min Scan# 1988  
Delta R.T. 0.05 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

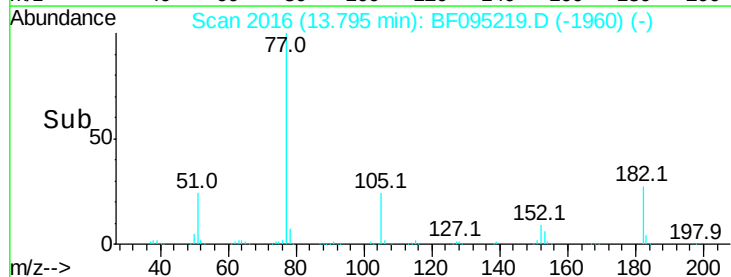
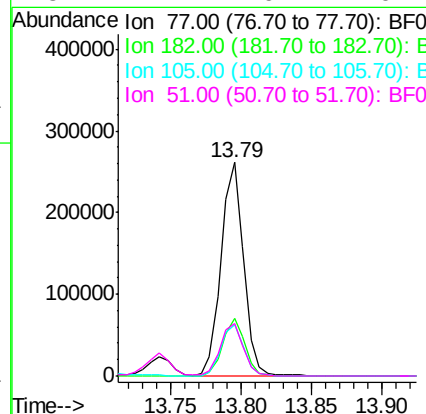
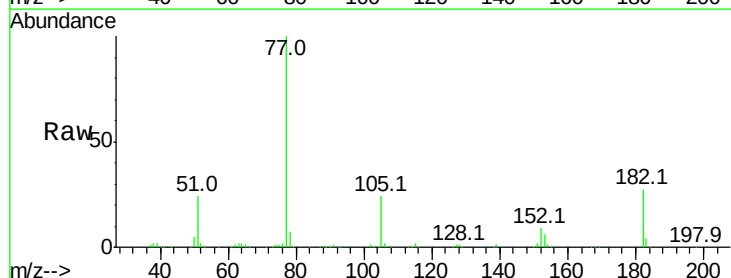
Instrument :  
BNA\_F  
ClientSampleId :

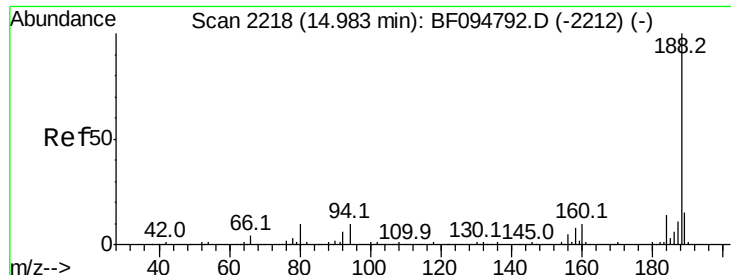
Tot Ion:138 Resp: 52114  
Ion Ratio Lower Upper  
138 100  
92 43.4 21.8 61.8  
108 59.6 42.3 82.3



#62  
Azobenzene  
Concen: 37.84 ng  
RT: 13.79 min Scan# 2016  
Delta R.T. 0.03 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion: 77 Resp: 291183  
Ion Ratio Lower Upper  
77 100  
182 27.0 0.1 40.1  
105 24.3 3.6 43.6  
51 24.4 9.4 49.4

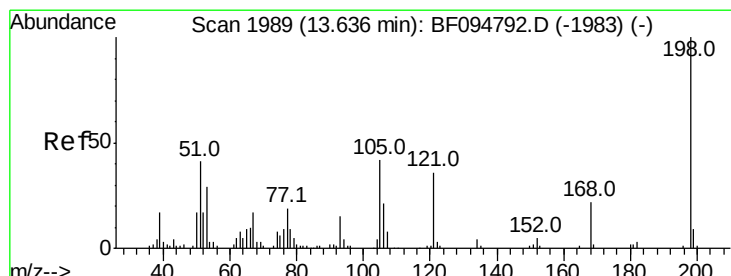
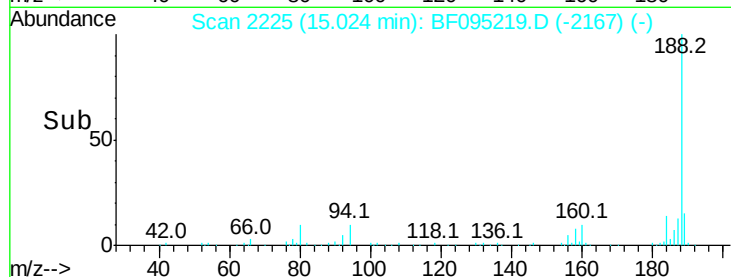
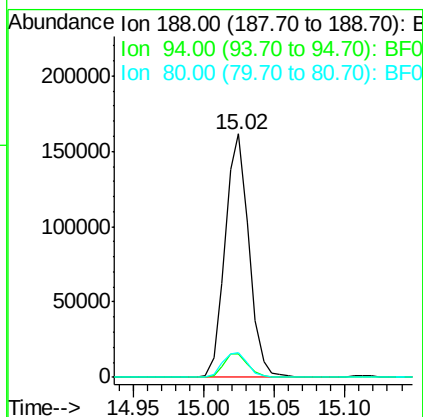
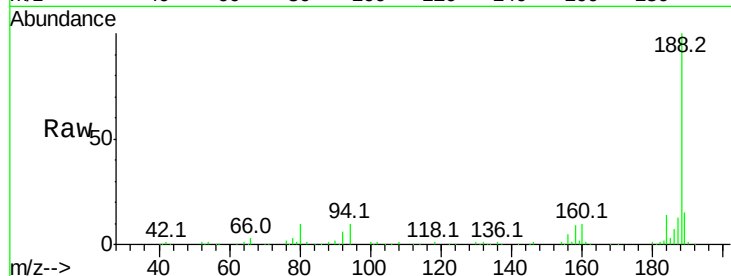




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 15.02 min Scan# 2225  
Delta R.T. 0.04 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

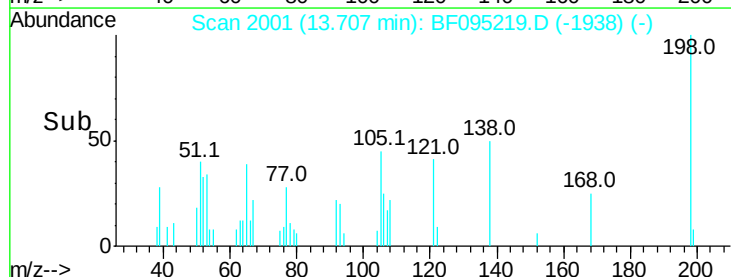
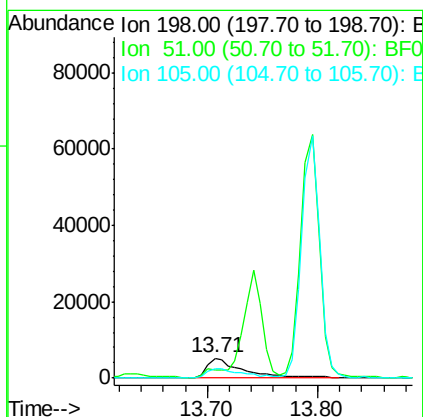
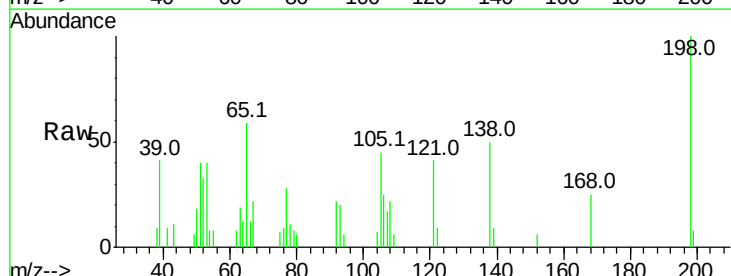
Instrument :  
BNA\_F  
ClientSampleId :

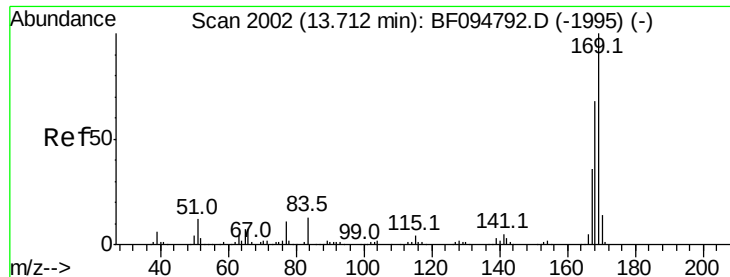
Tot Ion:188 Resp: 189182  
Ion Ratio Lower Upper  
188 100  
94 9.9 9.4 14.2  
80 10.3 10.2 15.2



#64  
4,6-Dinitro-2-methylphenol  
Concen: 9.12 ng  
RT: 13.71 min Scan# 2001  
Delta R.T. 0.07 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion:198 Resp: 11561  
Ion Ratio Lower Upper  
198 100  
51 39.7 53.2 93.2#  
105 45.1 45.8 85.8#





#65

n-Nitrosodiphenylamine

Concen: 40.73 ng

RT: 13.74 min Scan# 2007

Delta R.T. 0.03 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

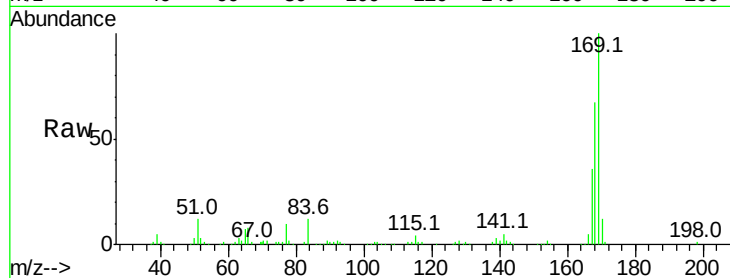
Tot Ion:169 Resp: 279654

Ion Ratio Lower Upper

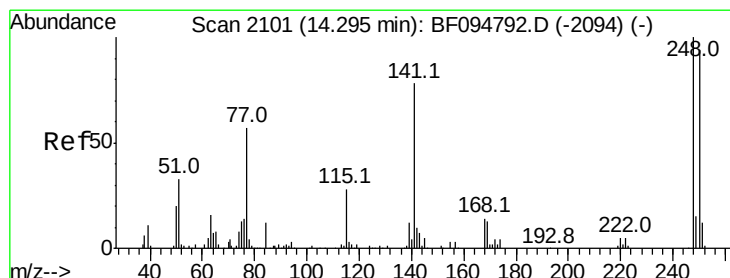
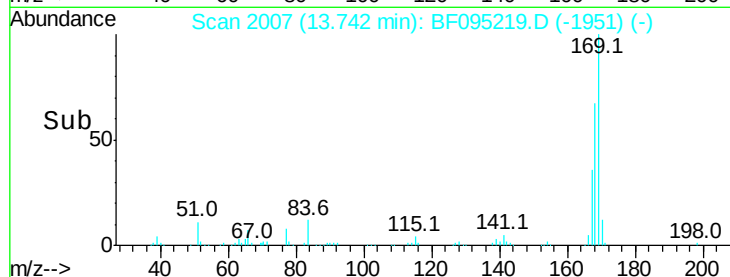
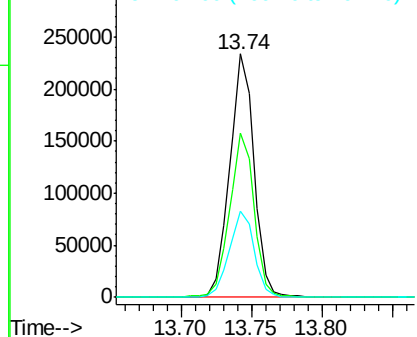
169 100

168 67.5 53.2 79.8

167 35.7 29.5 44.3



Abundance Ion 169.00 (168.70 to 169.70): E  
Ion 168.00 (167.70 to 168.70): E  
Ion 167.00 (166.70 to 167.70): E



#66

4-Bromophenyl-phenylether

Concen: 38.00 ng

RT: 14.32 min Scan# 2106

Delta R.T. 0.03 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

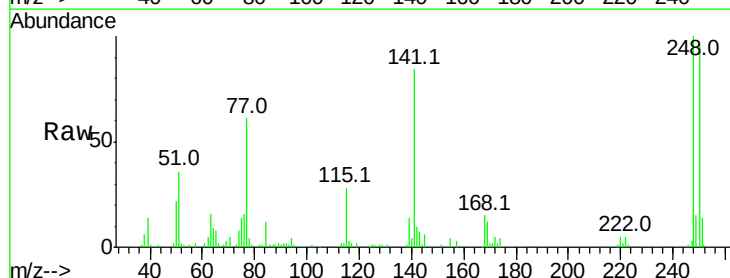
Tgt Ion:248 Resp: 75947

Ion Ratio Lower Upper

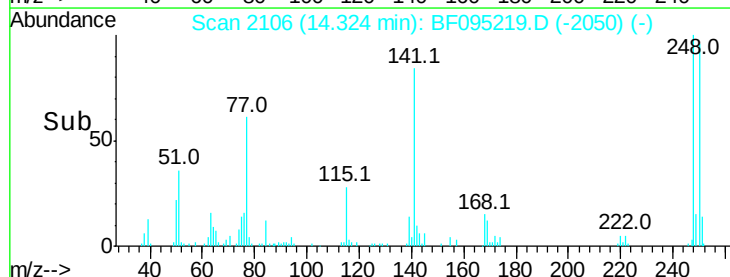
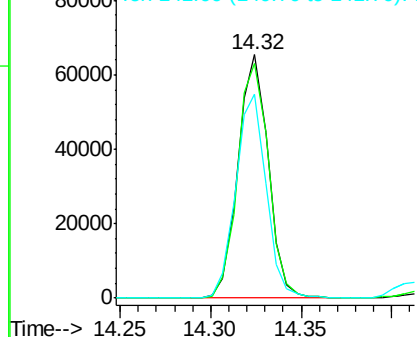
248 100

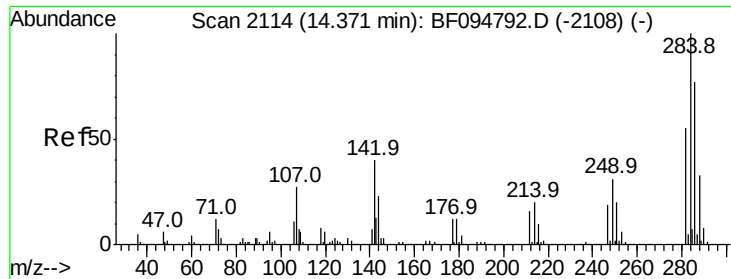
250 96.2 76.8 115.2

141 83.9 68.6 103.0



Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E





#67

Hexachlorobenzene

Concen: 35.99 ng

RT: 14.41 min Scan# 2121

Delta R.T. 0.04 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

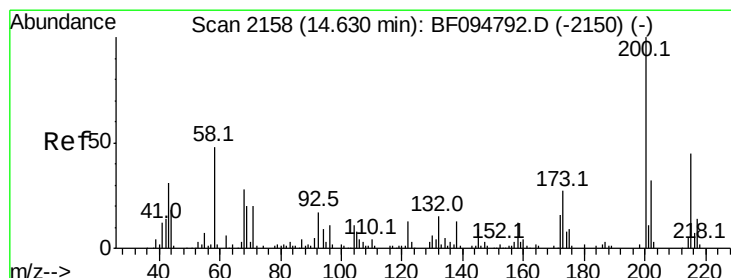
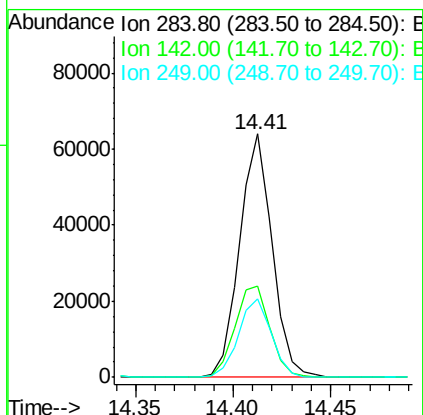
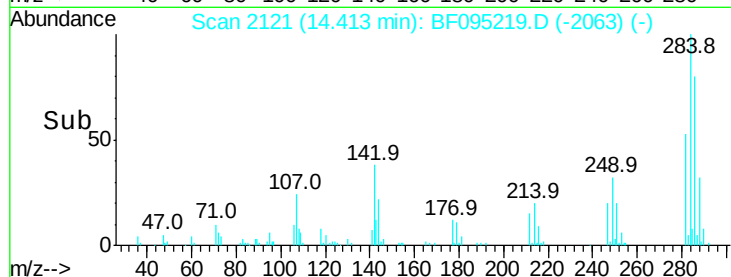
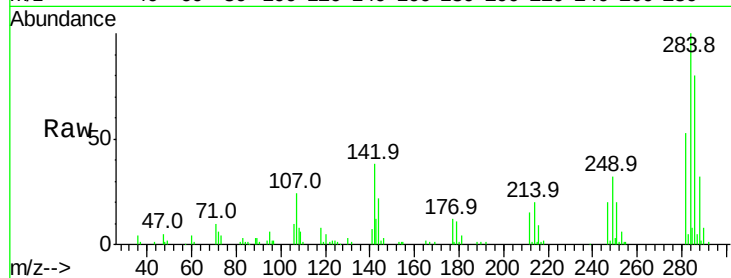
Tot Ion:284 Resp: 73722

Ion Ratio Lower Upper

284 100

142 37.6 22.8 34.2#

249 32.0 24.0 36.0



#68

Atrazine

Concen: 38.95 ng

RT: 14.66 min Scan# 2163

Delta R.T. 0.03 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

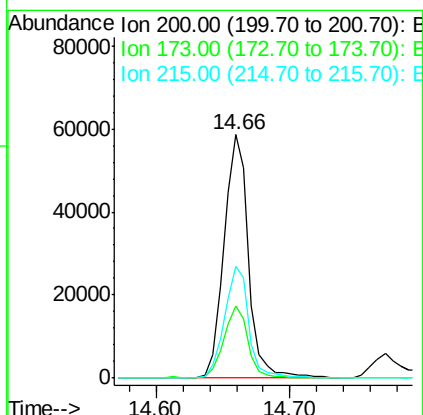
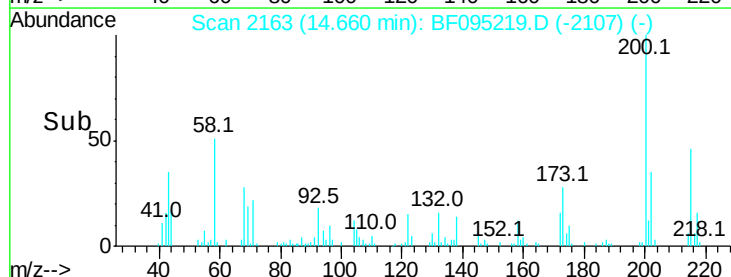
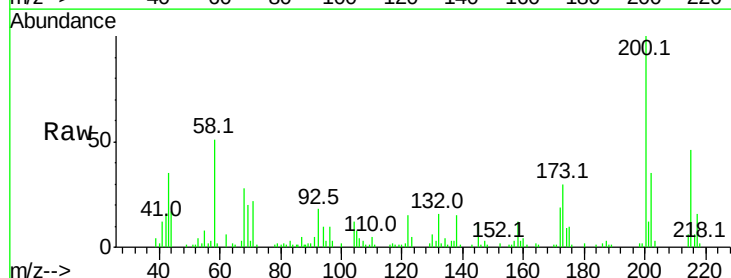
Tgt Ion:200 Resp: 75512

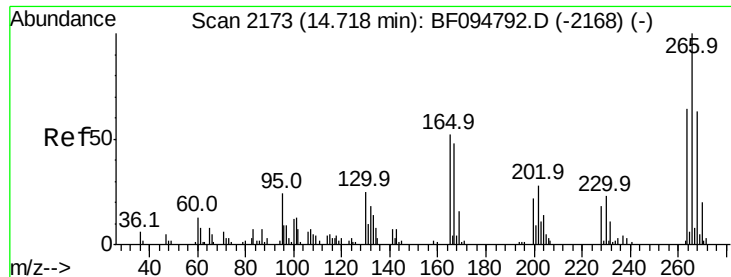
Ion Ratio Lower Upper

200 100

173 29.7 6.3 46.3

215 46.1 27.2 67.2

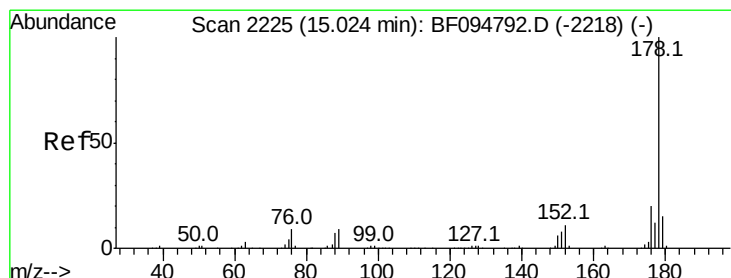
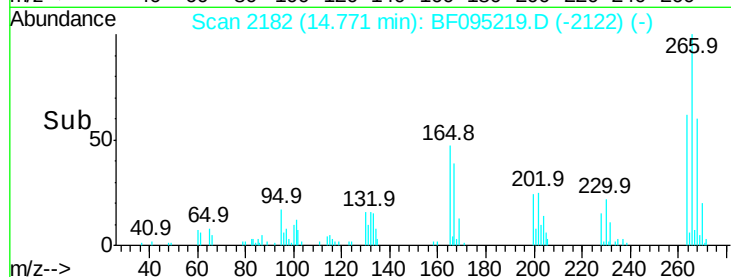
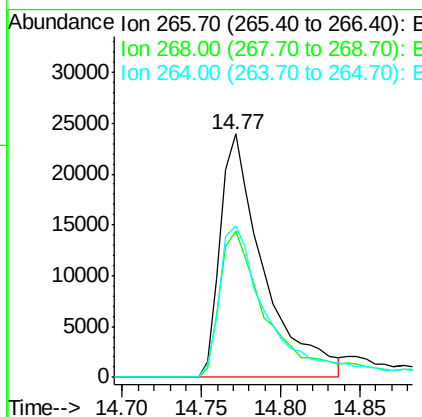
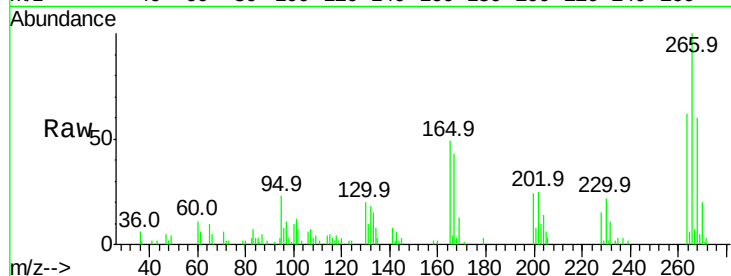




#69  
 Pentachlorophenol  
 Concen: 51.45 ng  
 RT: 14.77 min Scan# 2182  
 Delta R.T. 0.05 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

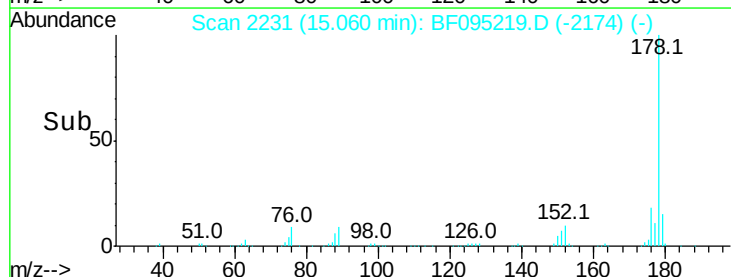
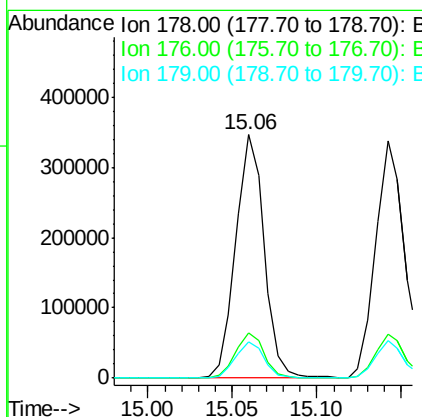
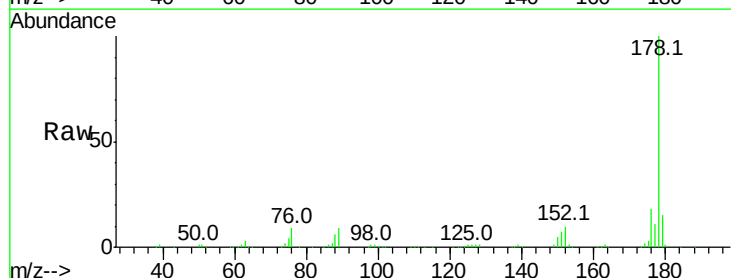
Instrument :  
 BNA\_F  
 ClientSampleId :

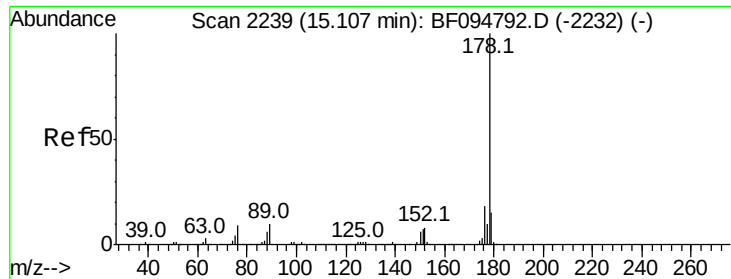
Tot Ion:266 Resp: 45560  
 Ion Ratio Lower Upper  
 266 100  
 268 60.0 51.1 76.7  
 264 62.0 51.7 77.5



#70  
 Phenanthrene  
 Concen: 37.51 ng  
 RT: 15.06 min Scan# 2231  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Tgt Ion:178 Resp: 407686  
 Ion Ratio Lower Upper  
 178 100  
 176 18.3 16.2 24.4  
 179 15.1 12.6 19.0

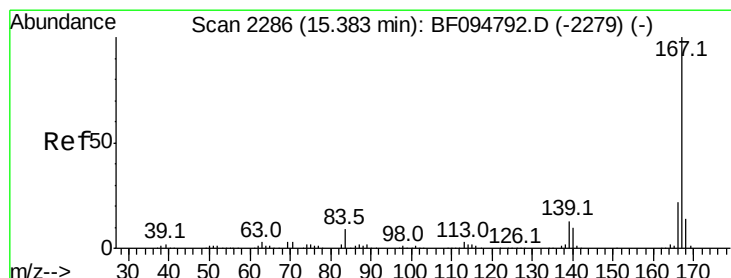
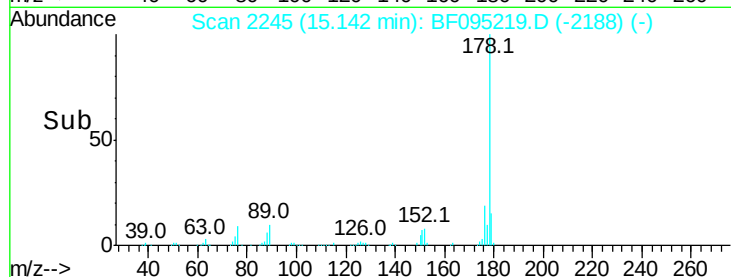
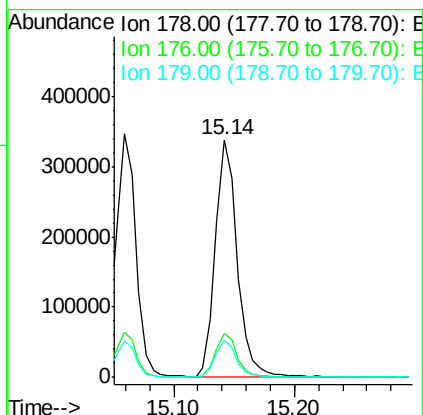
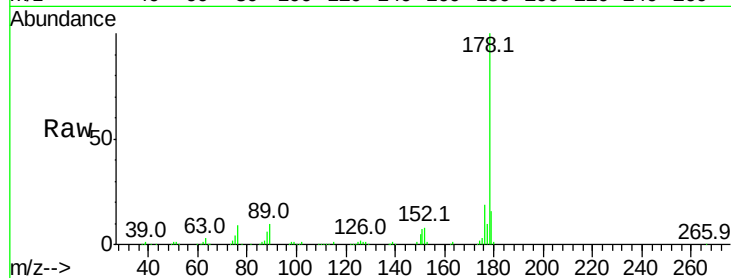




#71  
 Anthracene  
 Concen: 38.03 ng  
 RT: 15.14 min Scan# 2245  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

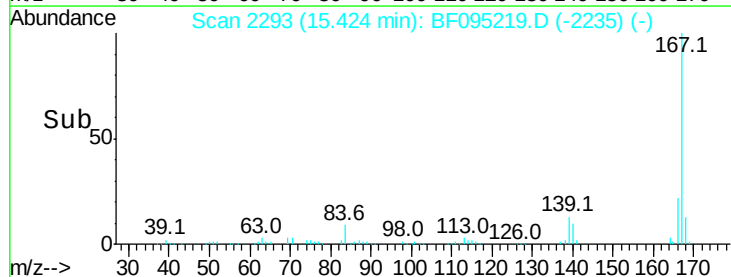
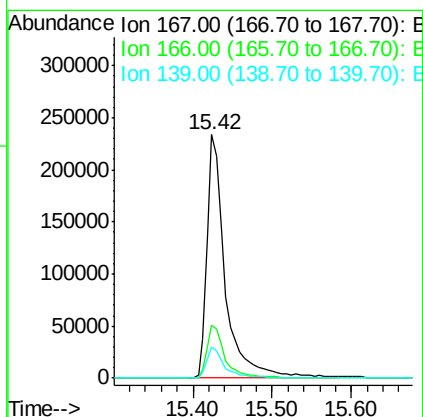
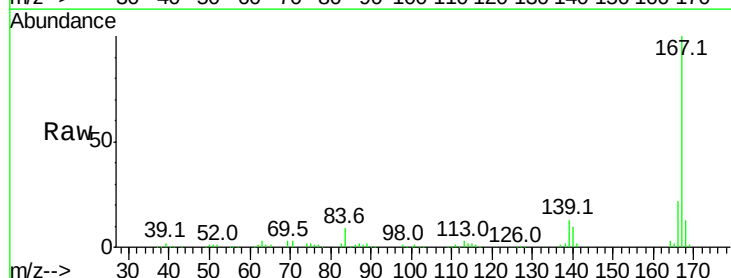
Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:178 Resp: 422269  
 Ion Ratio Lower Upper  
 178 100  
 176 18.6 15.8 23.8  
 179 15.6 12.7 19.1

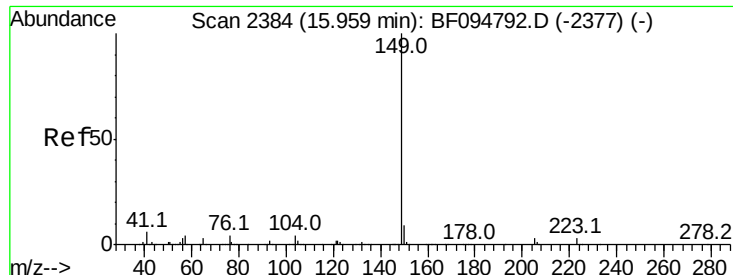


#72  
 Carbazole  
 Concen: 37.32 ng  
 RT: 15.42 min Scan# 2293  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Tgt Ion:167 Resp: 377068  
 Ion Ratio Lower Upper  
 167 100  
 166 21.8 18.1 27.1  
 139 12.9 11.7 17.5



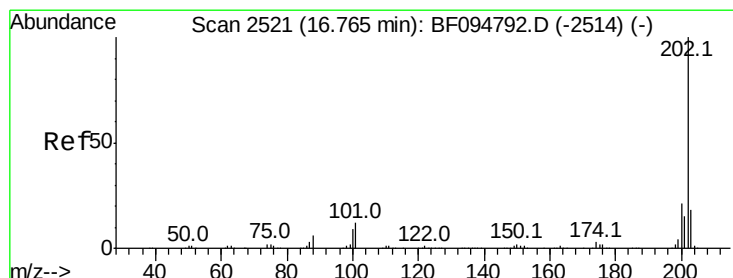
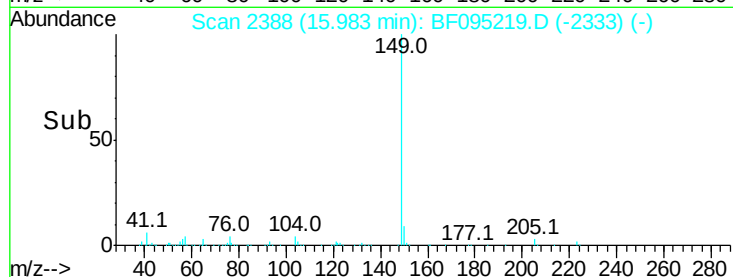
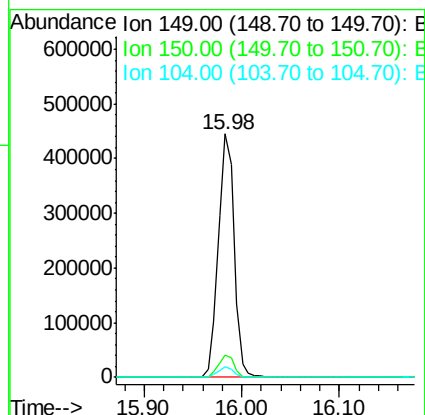
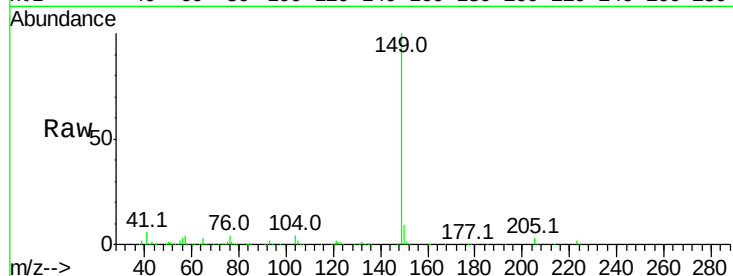




#73  
Di-n-butylphthalate  
Concen: 39.93 ng  
RT: 15.98 min Scan# 2388  
Delta R.T. 0.02 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

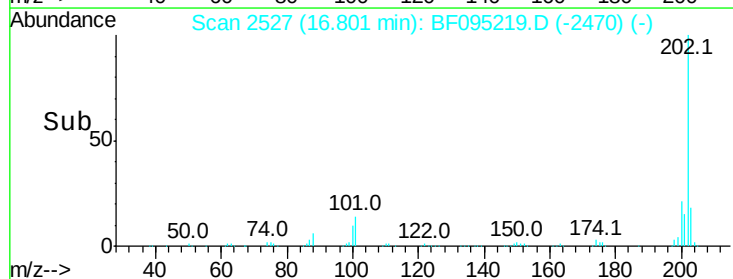
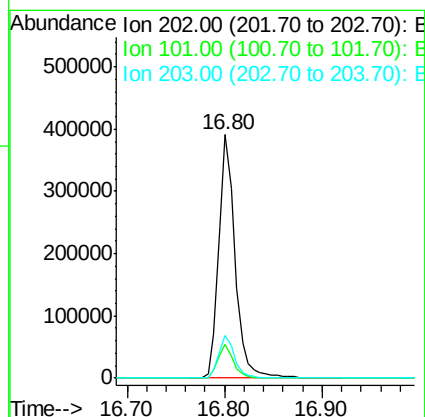
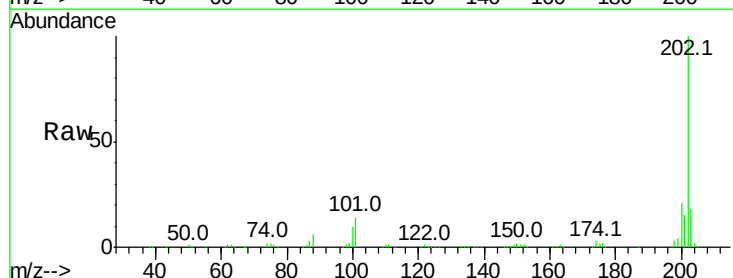
Instrument :  
BNA\_F  
ClientSampleId :

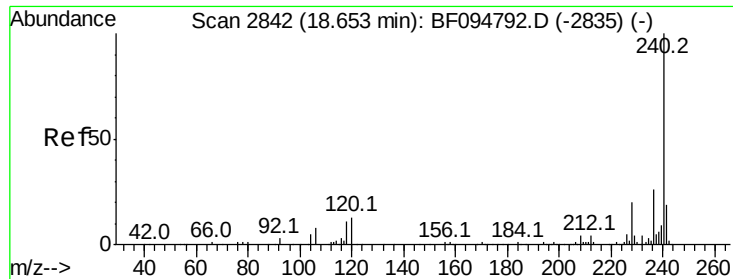
Tot Ion:149 Resp: 503013  
Ion Ratio Lower Upper  
149 100  
150 9.1 7.7 11.5  
104 4.5 4.0 6.0



#74  
Fluoranthene  
Concen: 41.09 ng  
RT: 16.80 min Scan# 2527  
Delta R.T. 0.04 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion:202 Resp: 458113  
Ion Ratio Lower Upper  
202 100  
101 13.8 0.0 33.2  
203 17.8 0.0 38.1

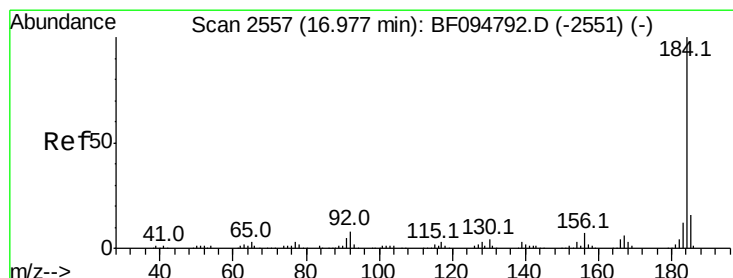
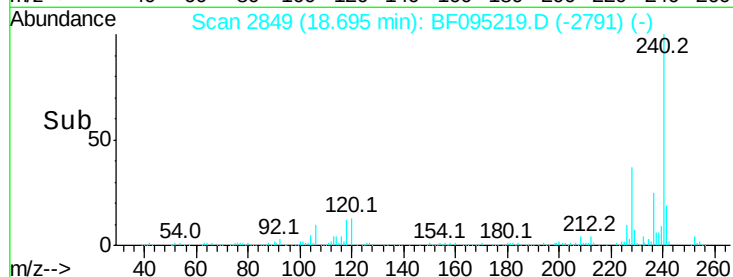
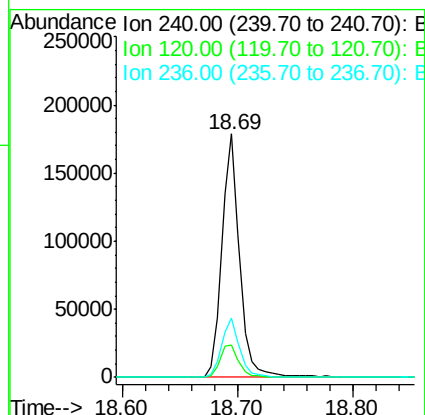
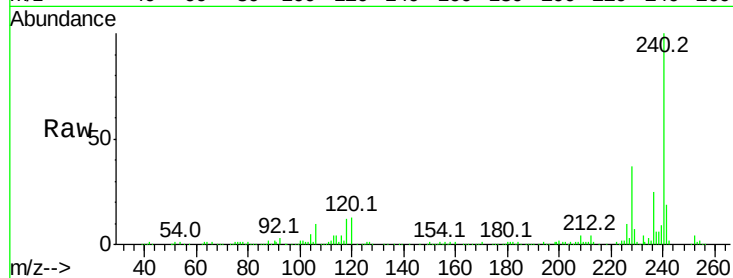




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 18.69 min Scan# 2849  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

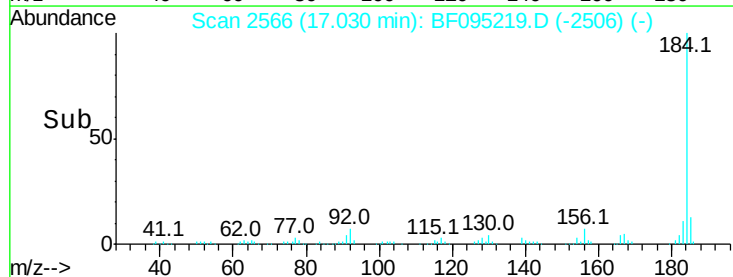
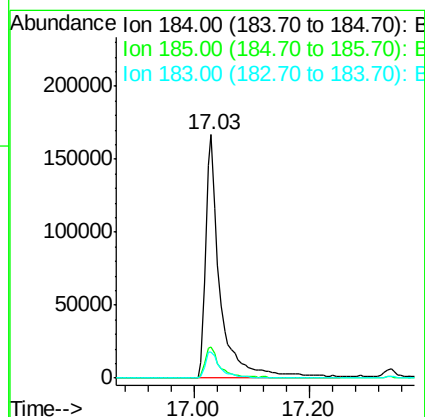
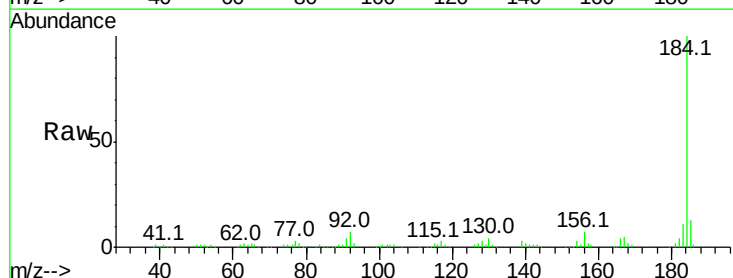
Instrument :  
 BNA\_F  
 ClientSampled :

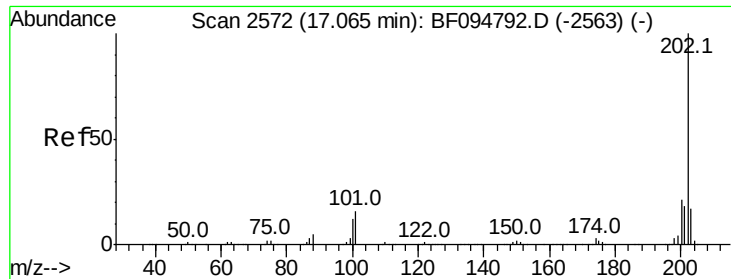
Tot Ion:240 Resp: 189765  
 Ion Ratio Lower Upper  
 240 100  
 120 13.4 5.8 8.8#  
 236 24.6 20.5 30.7



#76  
 Benzidine  
 Concen: 56.65 ng  
 RT: 17.03 min Scan# 2566  
 Delta R.T. 0.05 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Tgt Ion:184 Resp: 297834  
 Ion Ratio Lower Upper  
 184 100  
 185 12.9 15.5 23.3#  
 183 10.9 9.8 14.6

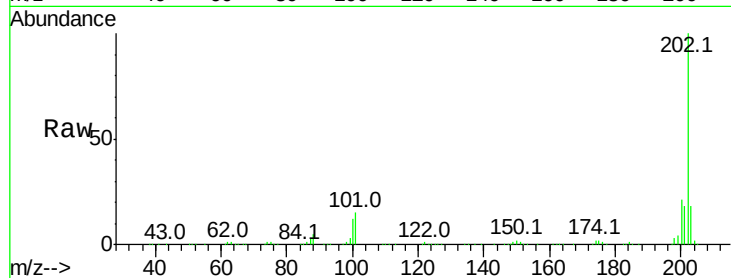




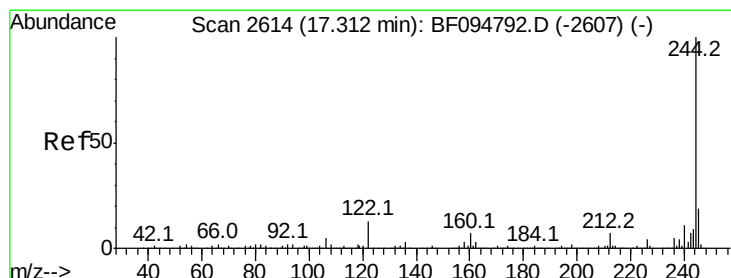
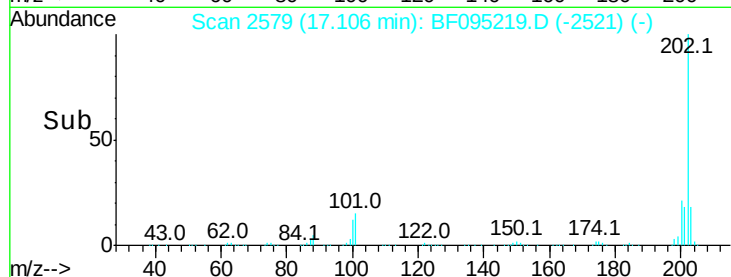
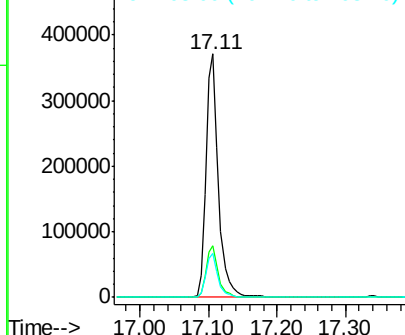
#77  
Pvrene  
Concen: 33.50 ng  
RT: 17.11 min Scan# 2579  
Delta R.T. 0.04 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:202 Resp: 475404  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.6 26.4  
203 17.8 14.4 21.6

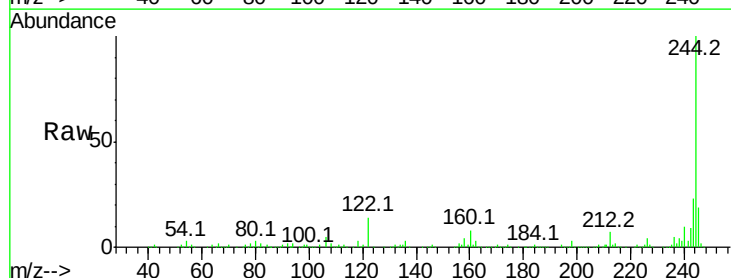


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

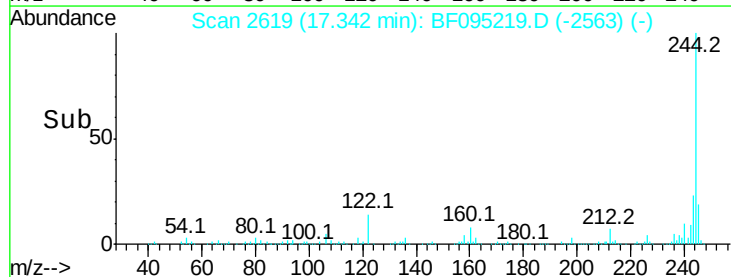
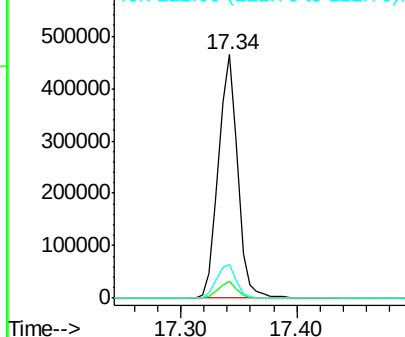


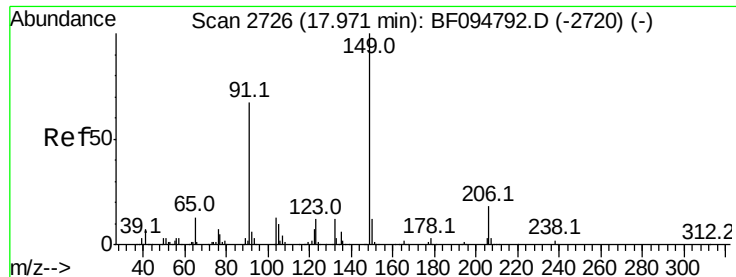
#78  
Terphenyl-d14  
Concen: 62.57 ng  
RT: 17.34 min Scan# 2619  
Delta R.T. 0.03 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

Tgt Ion:244 Resp: 539093  
Ion Ratio Lower Upper  
244 100  
212 6.7 6.0 9.0  
122 14.1 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E

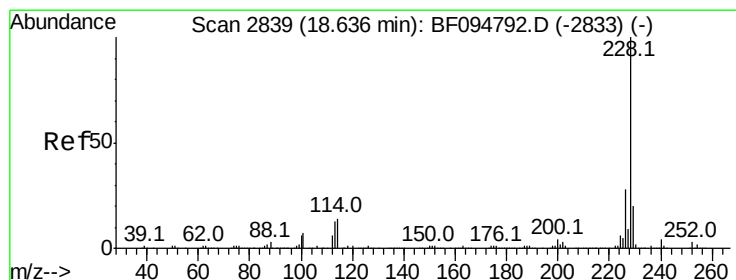
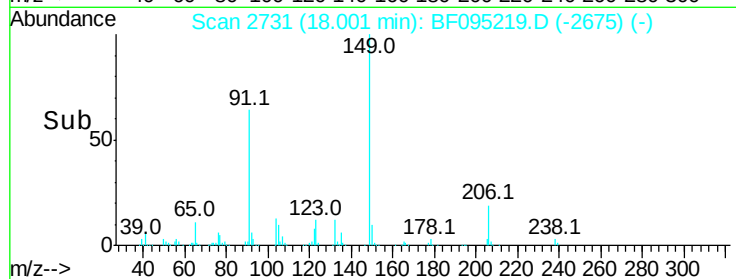
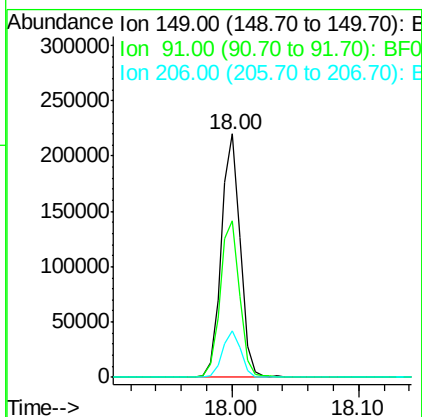
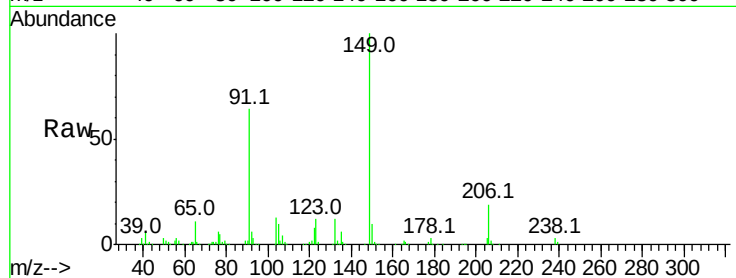




#79  
Butylbenzylphthalate  
Concen: 34.53 ng  
RT: 18.00 min Scan# 2731  
Delta R.T. 0.03 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

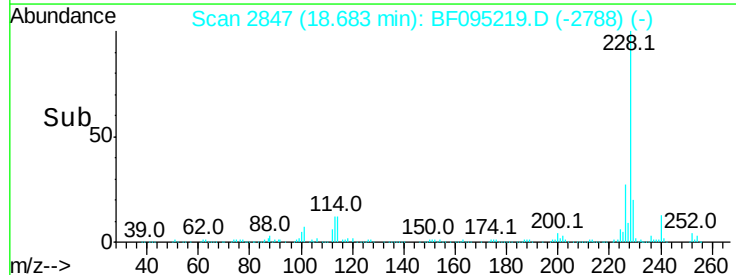
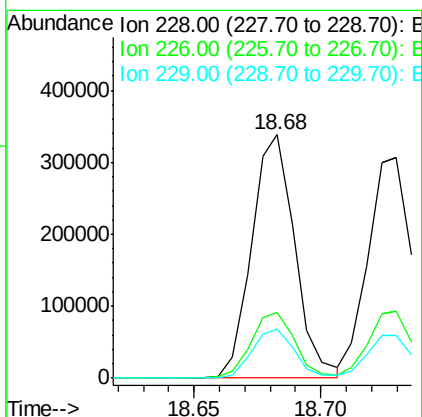
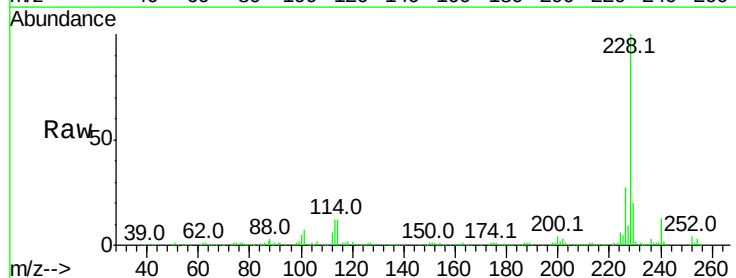
Instrument :  
BNA\_F  
ClientSampled :

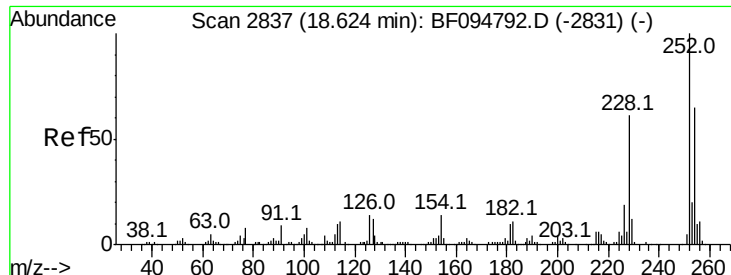
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 64.3  | 45.0  | 67.4  |
| 206     | 19.2  | 17.0  | 25.6  |



#80  
Benzo(a)anthracene  
Concen: 36.43 ng  
RT: 18.68 min Scan# 2847  
Delta R.T. 0.05 min  
Lab File: BF095219.D  
Acq: 18 May 2017 11:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.1  | 22.6  | 33.8  |
| 229     | 19.9  | 16.3  | 24.5  |

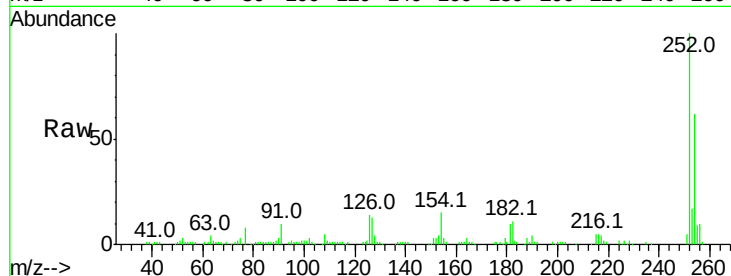




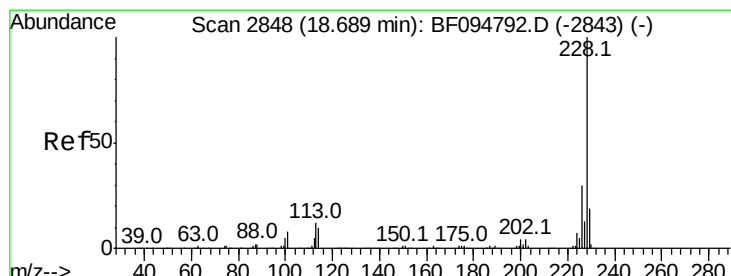
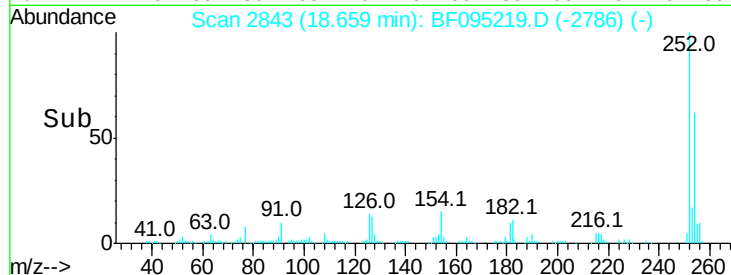
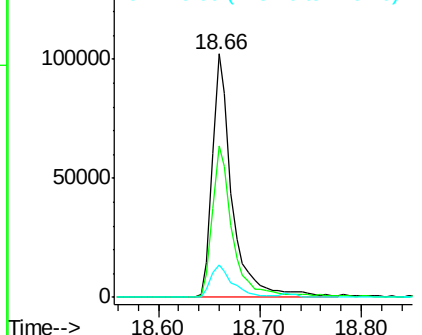
#81  
 3,3'-Dichlorobenzidine  
 Concen: 36.46 ng  
 RT: 18.66 min Scan# 2843  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:252 Resp: 139087  
 Ion Ratio Lower Upper  
 252 100  
 254 62.3 51.5 77.3  
 126 13.6 15.8 23.8#

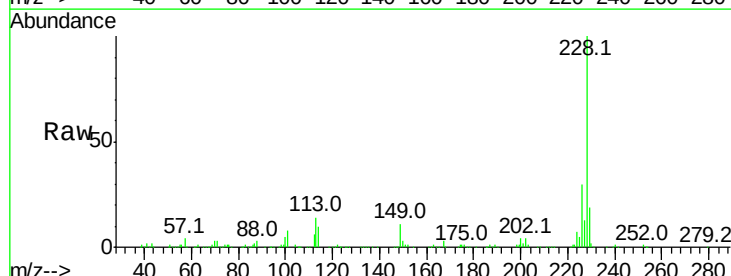


Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

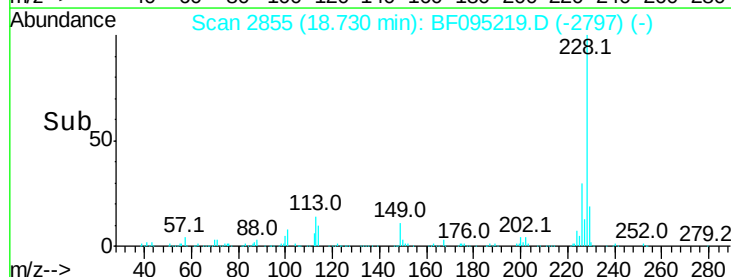
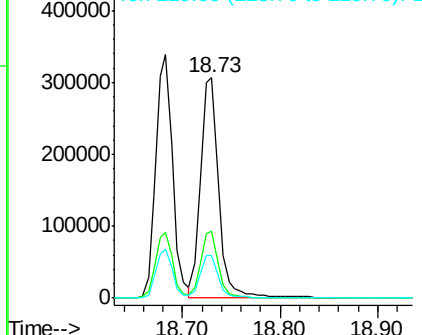


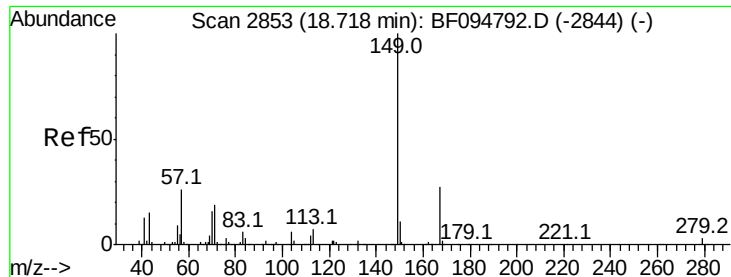
#82  
 Chrysene  
 Concen: 36.69 ng  
 RT: 18.73 min Scan# 2855  
 Delta R.T. 0.04 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

Tgt Ion:228 Resp: 391762  
 Ion Ratio Lower Upper  
 228 100  
 226 30.4 24.9 37.3  
 229 19.3 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 34.77 ng

RT: 18.75 min Scan# 2858

Delta R.T. 0.03 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

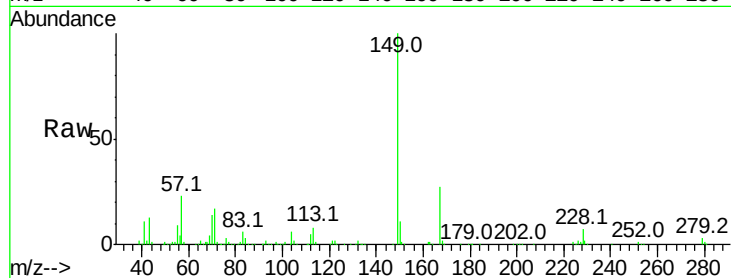
Tot Ion:149 Resp: 327063

Ion Ratio Lower Upper

149 100

167 27.2 21.0 31.4

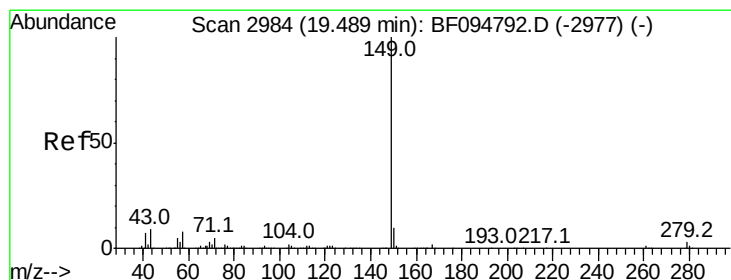
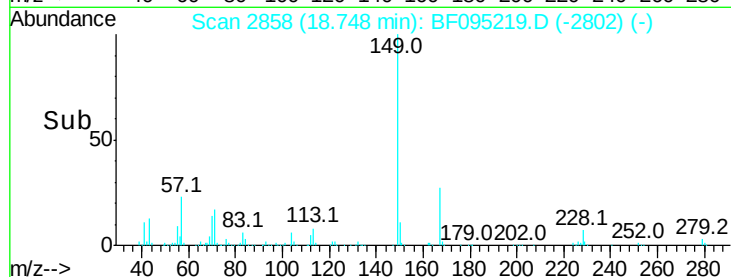
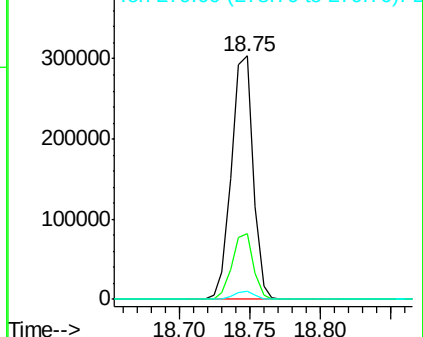
279 3.5 1.9 2.9#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 35.90 ng

RT: 19.51 min Scan# 2988

Delta R.T. 0.02 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

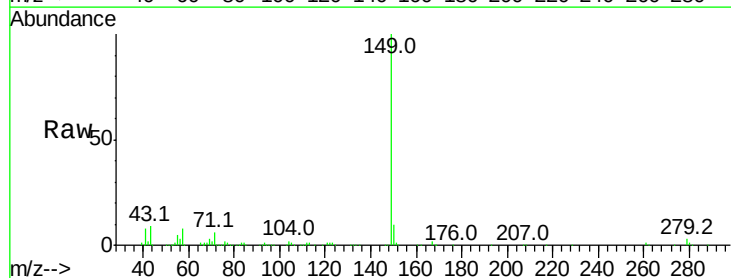
Tgt Ion:149 Resp: 553667

Ion Ratio Lower Upper

149 100

167 1.5 1.2 1.8

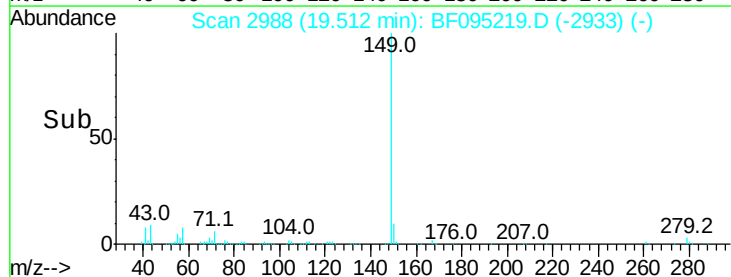
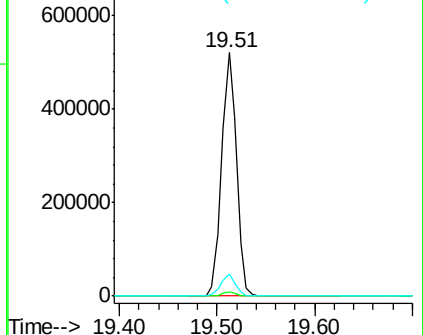
43 8.8 8.5 12.7

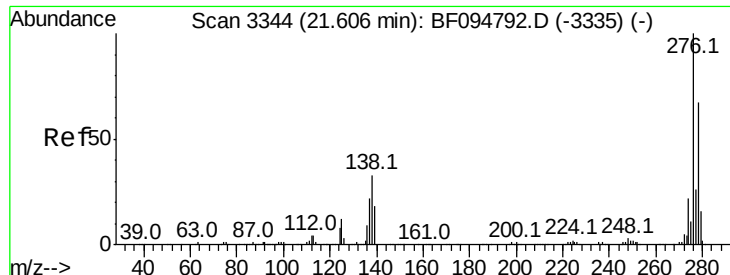


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0

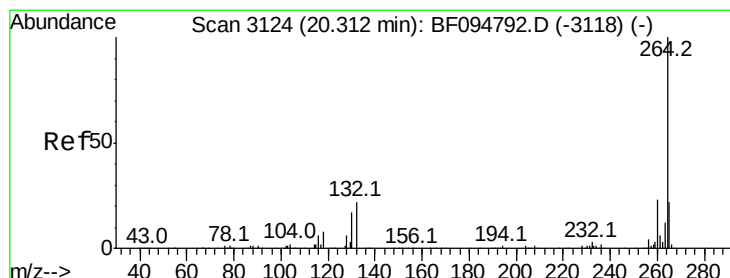
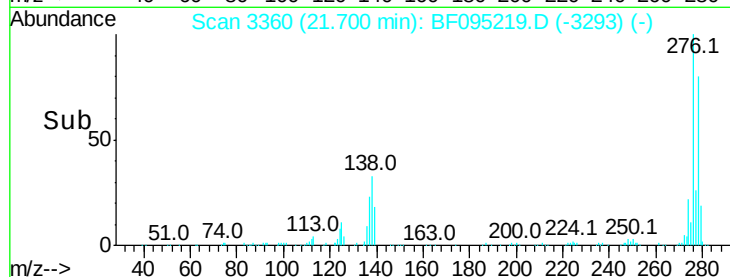
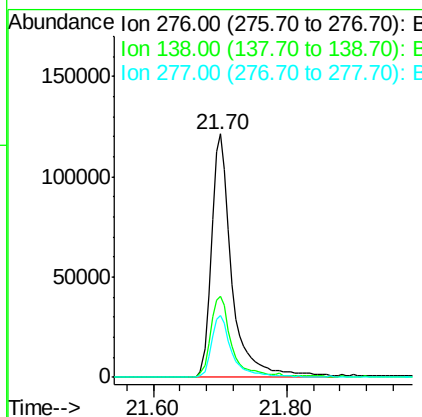
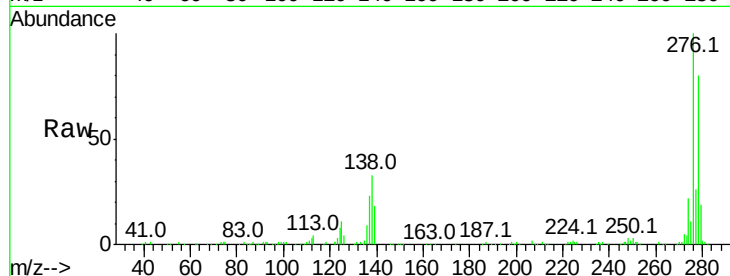




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 30.30 ng  
 RT: 21.70 min Scan# 3360  
 Delta R.T. 0.09 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

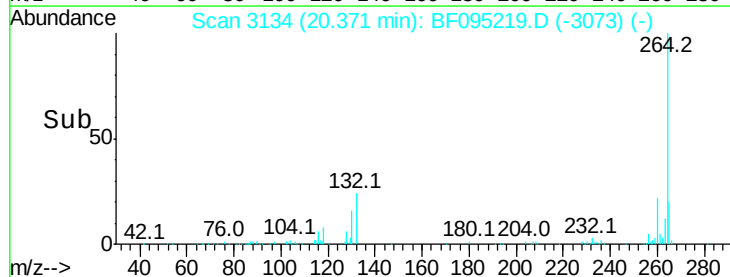
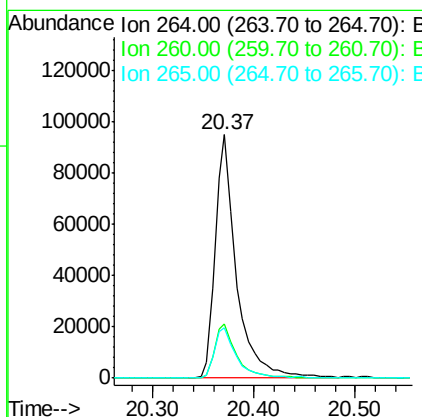
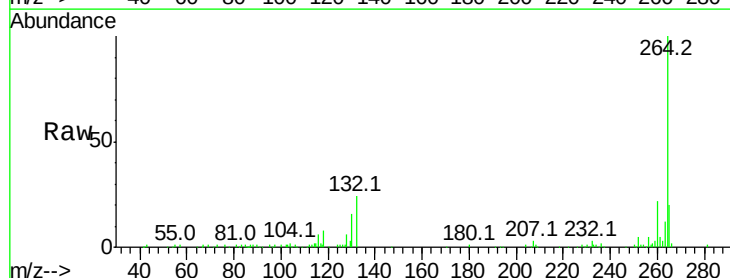
Instrument :  
 BNA\_F  
 ClientSampleId :

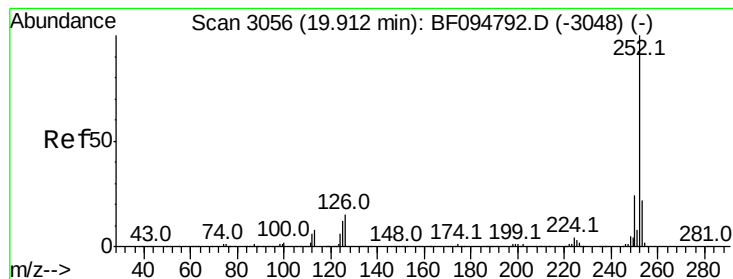
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 33.4  | 27.8  | 41.6  |
| 277     | 25.5  | 20.2  | 30.4  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 20.37 min Scan# 3134  
 Delta R.T. 0.06 min  
 Lab File: BF095219.D  
 Acq: 18 May 2017 11:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.2  | 19.5  | 29.3  |
| 265     | 20.4  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 36.85 ng

RT: 19.96 min Scan# 3064

Delta R.T. 0.05 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

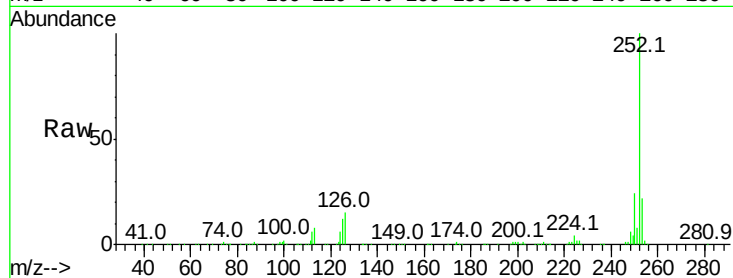
Tot Ion:252 Resp: 314782

Ion Ratio Lower Upper

252 100

253 21.9 18.1 27.1

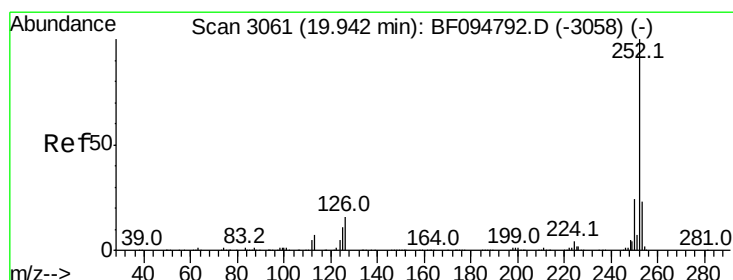
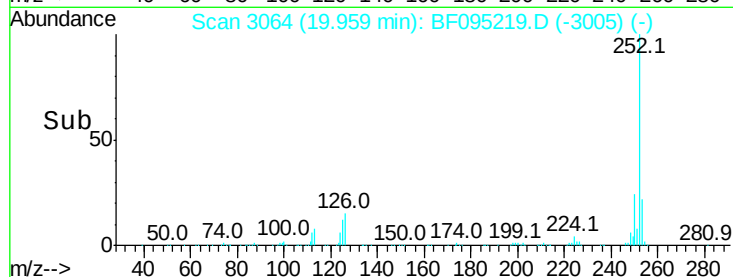
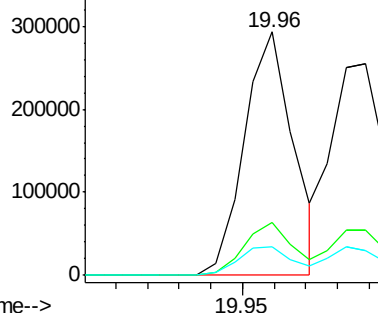
125 11.8 9.8 14.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 42.02 ng

RT: 19.99 min Scan# 3069

Delta R.T. 0.05 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

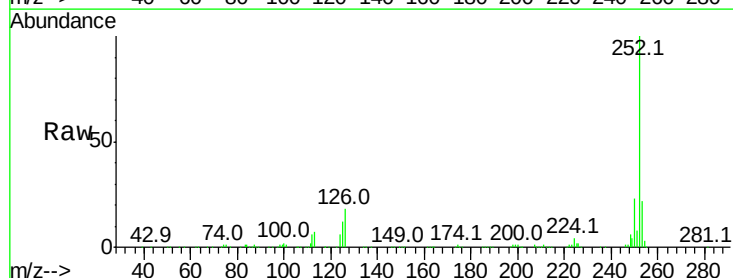
Tgt Ion:252 Resp: 346281

Ion Ratio Lower Upper

252 100

253 21.6 18.4 27.6

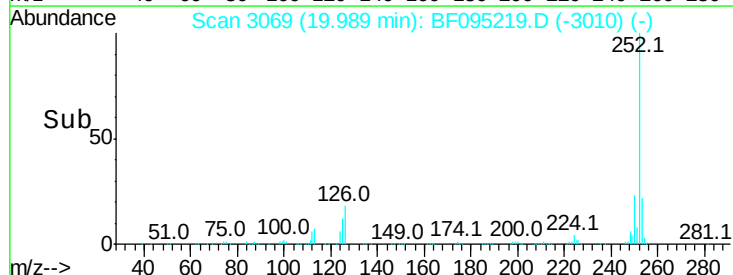
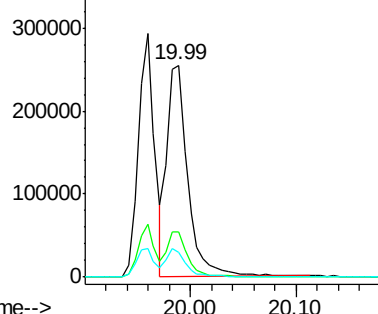
125 11.9 13.1 19.7#



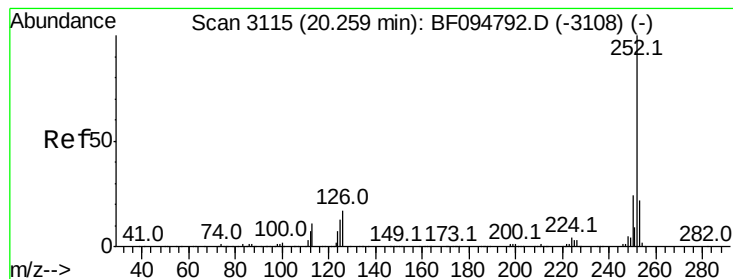
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#89

Benzo(a)pyrene

Concen: 37.62 ng

RT: 20.31 min Scan# 3124

Delta R.T. 0.05 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampled :

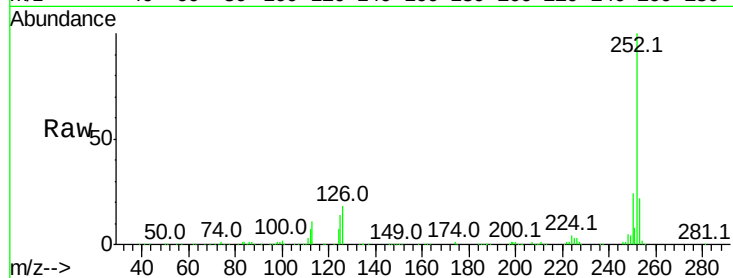
Tot Ion:252 Resp: 296545

Ion Ratio Lower Upper

252 100

253 21.9 17.5 26.3

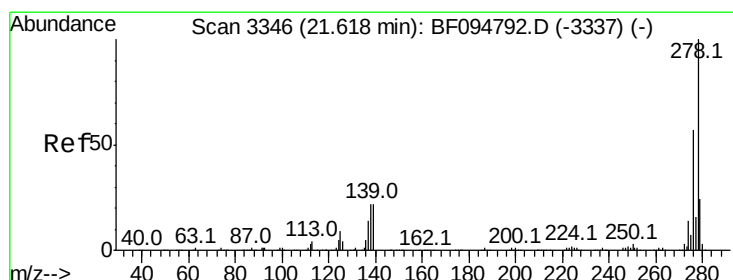
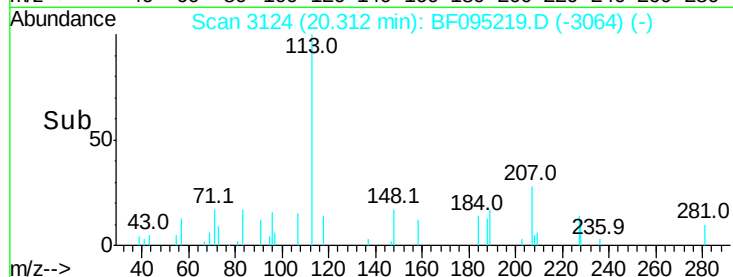
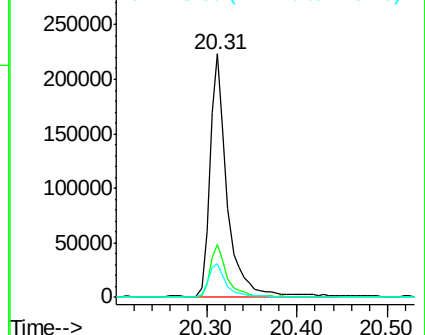
125 14.1 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 32.99 ng

RT: 21.70 min Scan# 3360

Delta R.T. 0.08 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

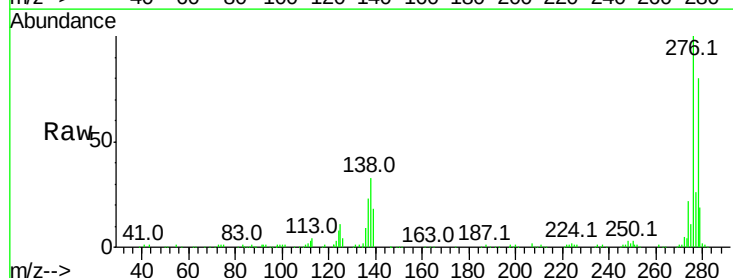
Tgt Ion:278 Resp: 214801

Ion Ratio Lower Upper

278 100

139 22.3 16.6 24.8

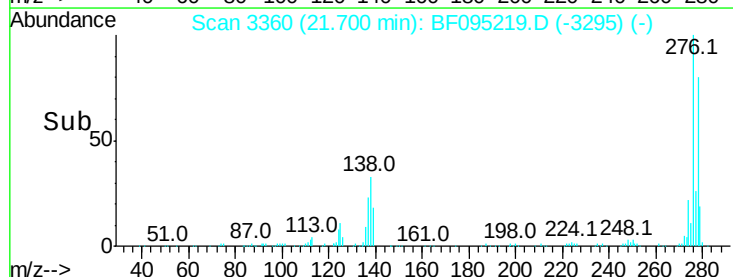
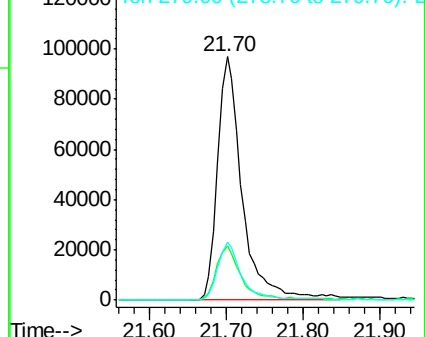
279 23.9 19.3 28.9

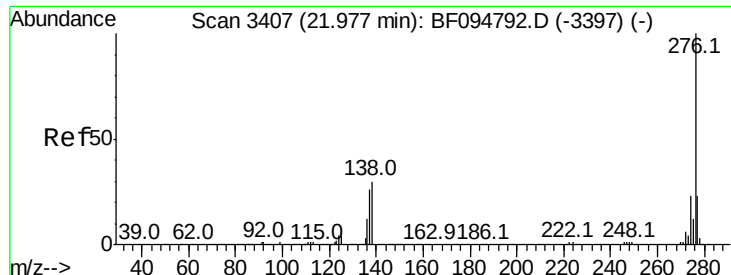


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 34.22 ng

RT: 22.09 min Scan# 3426

Delta R.T. 0.11 min

Lab File: BF095219.D

Acq: 18 May 2017 11:20

Instrument :

BNA\_F

ClientSampleId :

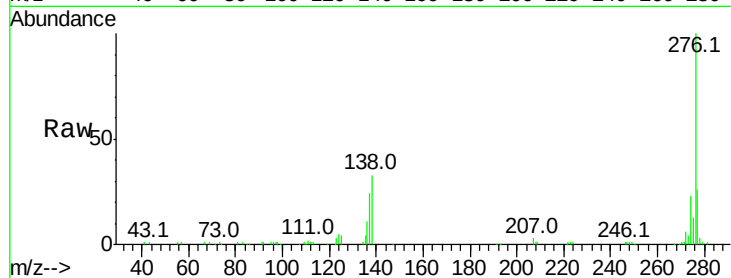
Tot Ion: 276 Resp: 218617

Ion Ratio Lower Upper

276 100

277 25.6 18.6 28.0

138 33.1 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

