

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030918\  
 Data File : BF103559.D  
 Acq On : 9 Mar 2018 16:12  
 Operator : SJ/JU  
 Sample : J1855-13  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 09 16:48:53 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 09 11:47:13 2018  
 Response via : Initial Calibration

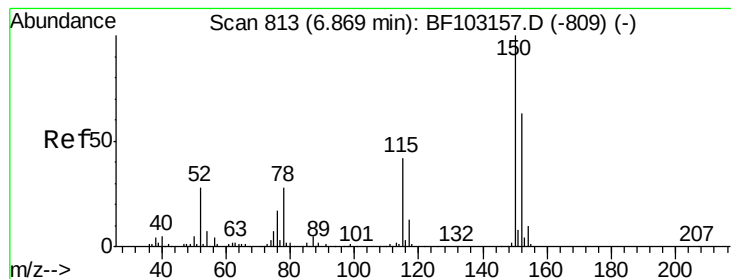
| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 141324   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 590517   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.91  | 164  | 241744   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 356345   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 220811   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.57 | 264  | 195123   | 20.00 | ng    | 0.00     |

|                             |       |     |         |        |    |      |
|-----------------------------|-------|-----|---------|--------|----|------|
| System Monitoring Compounds |       |     |         |        |    |      |
| 5) 2-Fluorophenol           | 5.49  | 112 | 1063946 | 113.86 | ng | 0.00 |
| 7) Phenol-d6                | 6.50  | 99  | 1277446 | 111.72 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.43  | 82  | 852443  | 82.44  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330 | 173685  | 84.88  | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.22  | 172 | 1133235 | 79.51  | ng | 0.00 |
| 78) Terphenyl-d14           | 12.99 | 244 | 674057  | 73.38  | ng | 0.00 |

|                                |       |     |        |           |    |    |
|--------------------------------|-------|-----|--------|-----------|----|----|
| Target Compounds               |       |     |        | Qvalue    |    |    |
| 9) Benzaldehyde                | 6.51  | 77  | 3400   | Below Cal | #  | 25 |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70  | 108349 | 15.226    | ng | 85 |
| 25) Isophorone                 | 7.43  | 82  | 852437 | 41.857    | ng | 64 |
| 49) Dimethylphthalate          | 9.62  | 163 | 94795  | 4.888     | ng | 99 |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165 | 31335  | 7.700     | ng | 26 |
| 51) Acenaphthene               | 9.94  | 154 | 31993  | 2.225     | ng | 99 |
| 55) 4-Nitrophenol              | 10.12 | 139 | 7295   | 2.280     | ng | 9  |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165 | 31641  | 6.147     | ng | 24 |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198 | 286    | 5.064     | ng | 1  |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248 | 12493  | 3.366     | ng | 1  |
| 70) Phenanthrene               | 11.43 | 178 | 339310 | 17.302    | ng | 99 |
| 71) Anthracene                 | 11.49 | 178 | 82684  | 4.112     | ng | 98 |
| 72) Carbazole                  | 11.65 | 167 | 52117  | 2.602     | ng | 96 |
| 74) Fluoranthene               | 12.62 | 202 | 410208 | 20.816    | ng | 98 |
| 77) Pyrene                     | 12.86 | 202 | 332233 | 19.298    | ng | 99 |
| 80) Benzo(a)anthracene         | 14.04 | 228 | 127722 | 8.915     | ng | 96 |
| 82) Chrysene                   | 14.09 | 228 | 123334 | 8.866     | ng | 99 |
| 85) Indeno(1,2,3-cd)pyrene     | 17.12 | 276 | 54298  | 4.930     | ng | 96 |
| 87) Benzo(b)fluoranthene       | 15.13 | 252 | 196071 | 15.283    | ng | 95 |
| 88) Benzo(k)fluoranthene       | 15.13 | 252 | 196071 | 16.230    | ng | 98 |
| 89) Benzo(a)pyrene             | 15.51 | 252 | 100595 | 8.781     | ng | 92 |
| 91) Benzo(g,h,i)perylene       | 17.60 | 276 | 50048  | 5.785     | ng | 87 |

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



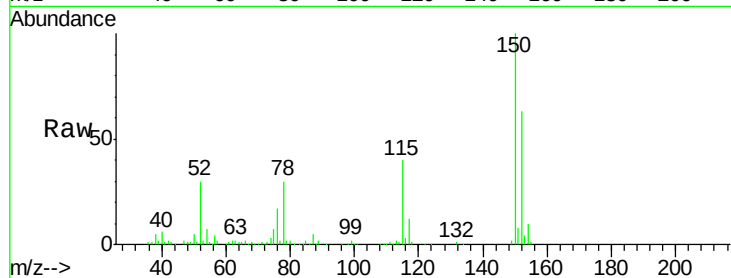


#1

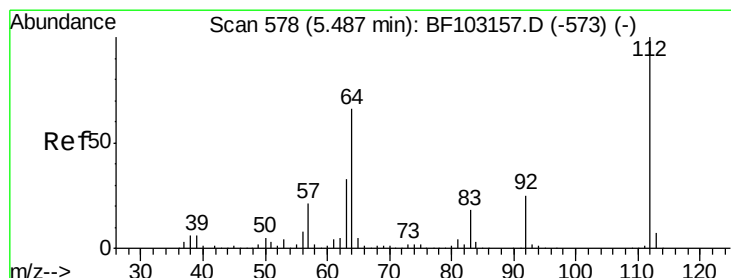
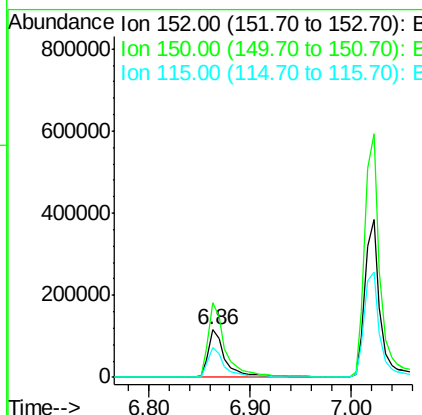
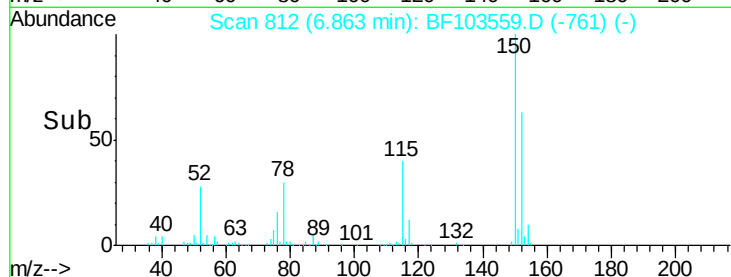
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. 0.00 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.1 | 124.6 | 186.8 |
| 115     | 63.5  | 50.1  | 75.1  |



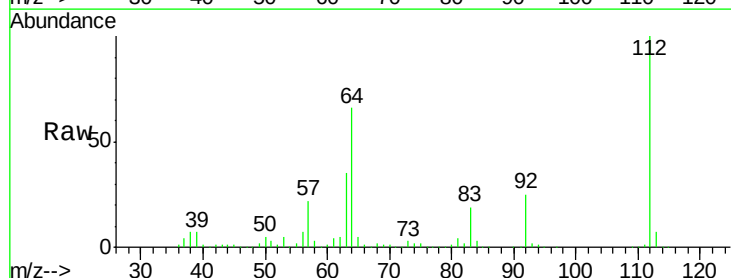
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



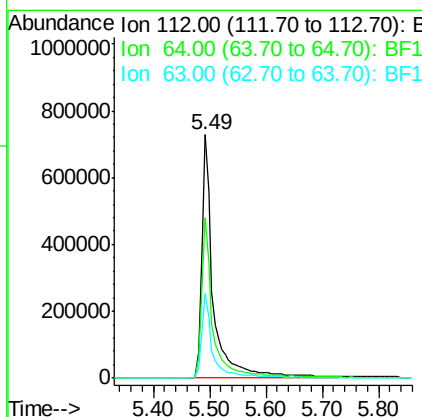
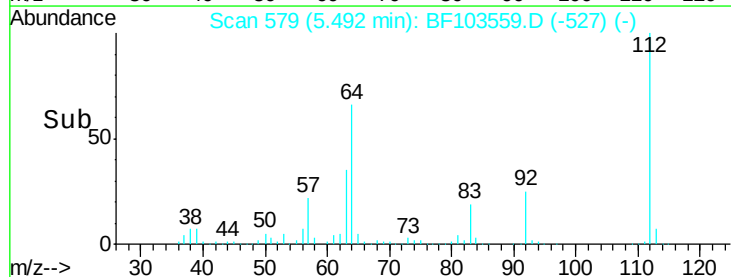
#5

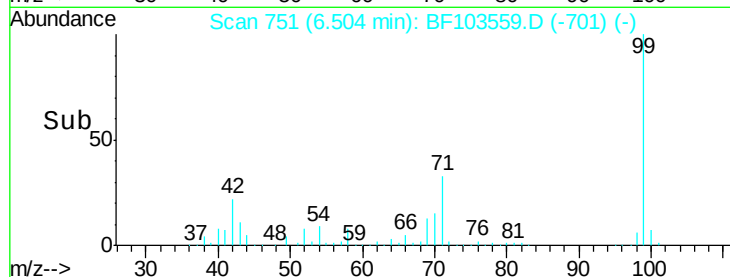
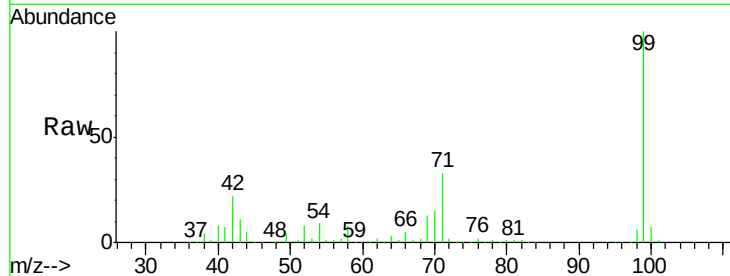
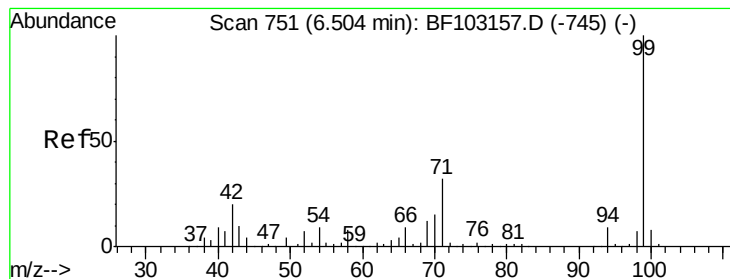
2-Fluorophenol  
Concen: 113.862 ng  
RT: 5.49 min Scan# 579  
Delta R.T. 0.01 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.1  | 47.9  | 71.9  |
| 63      | 35.0  | 23.7  | 35.5  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 111.723 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

Instrument :

BNA\_F

ClientSampled :

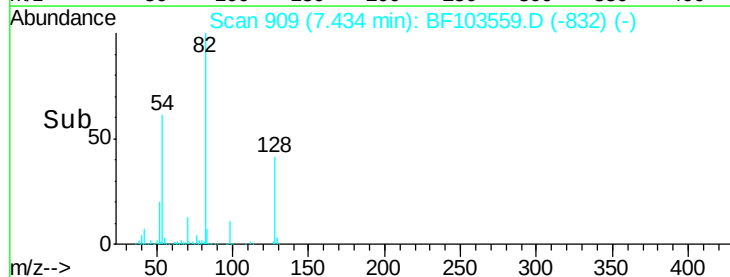
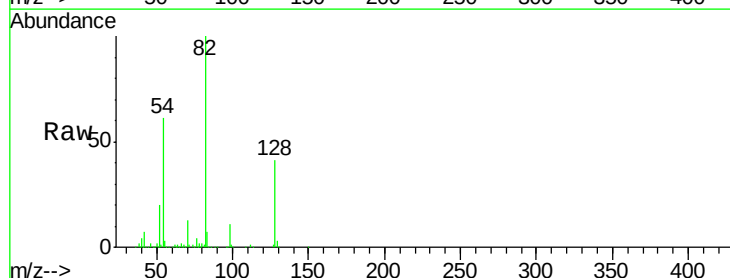
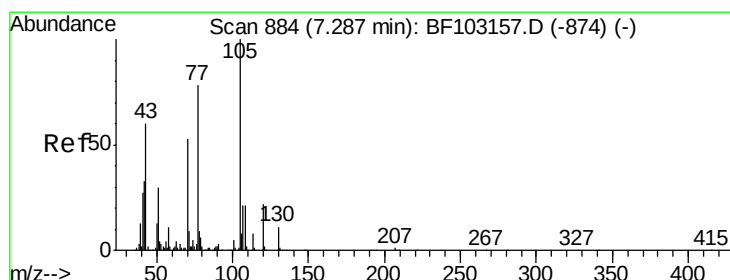
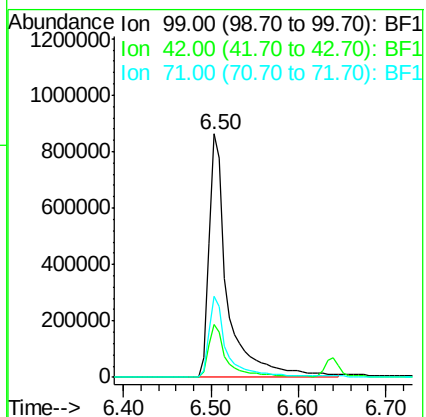
Tot Ion: 99 Resp: 1277446

Ion Ratio Lower Upper

99 100

42 21.6 14.5 21.7

71 33.1 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.226 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.15 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

Tgt Ion: 70 Resp: 108349

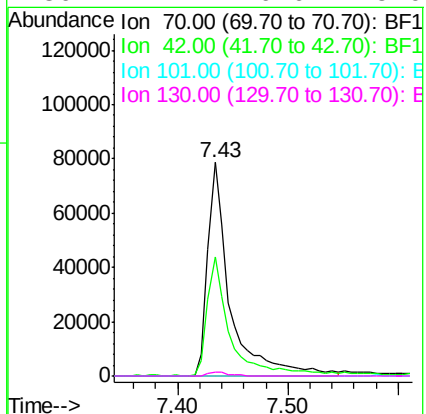
Ion Ratio Lower Upper

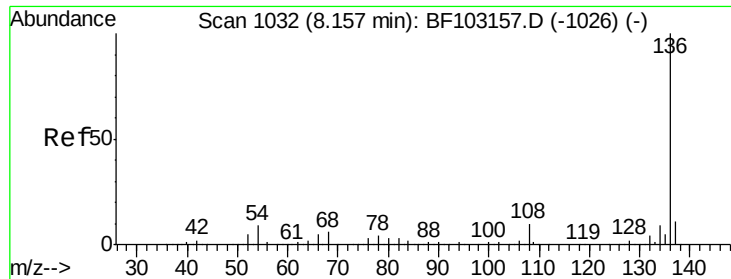
70 100

42 55.5 47.5 71.3

101 0.0 7.4 11.2#

130 2.1 16.6 25.0#

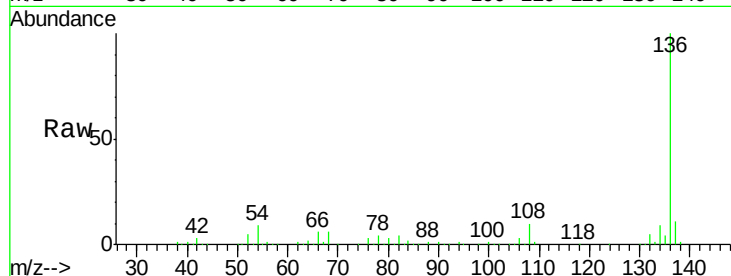




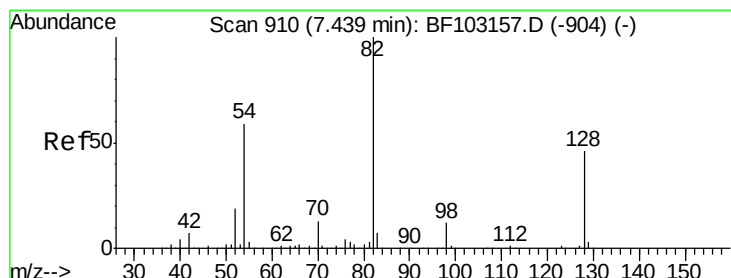
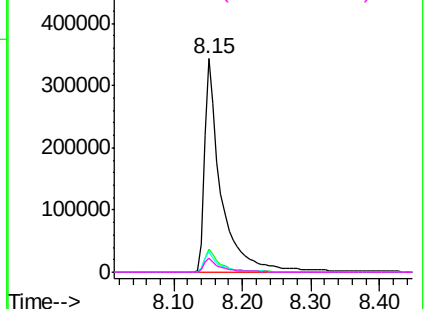
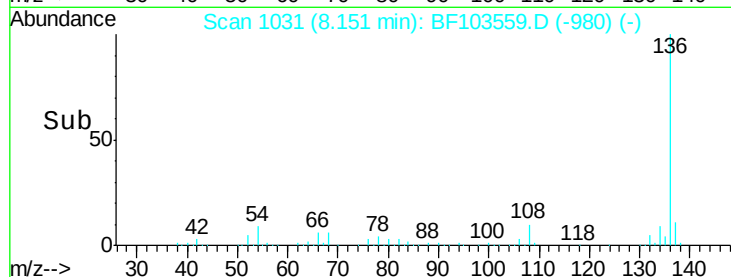
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 590517   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.1  | 8.9 13.3 |
| 54          | 9.3   | 6.6 9.8  |
| 68          | 6.5   | 5.0 7.4  |

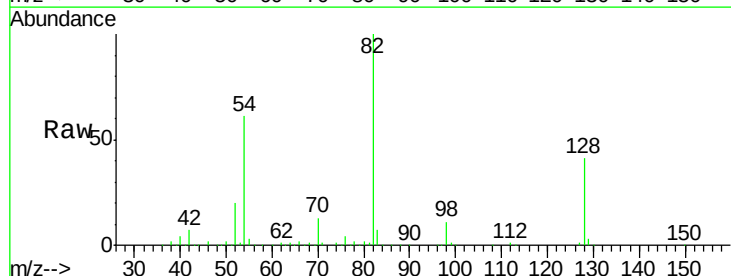


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

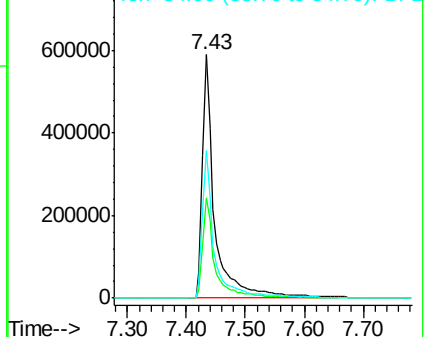
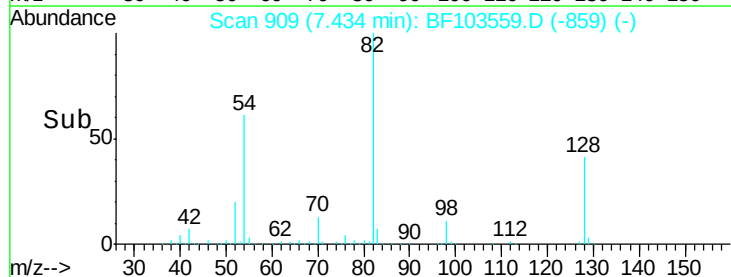


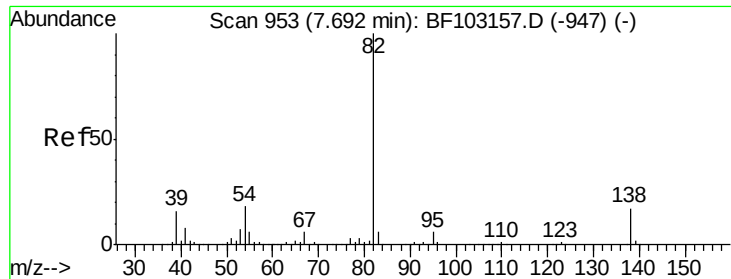
#23  
Nitrobenzene-d5  
Concen: 82.439 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 852443    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 41.3  | 36.1 54.1 |
| 54          | 60.8  | 41.4 62.2 |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 41.857 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.26 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

Instrument :

BNA\_F

ClientSampleId :

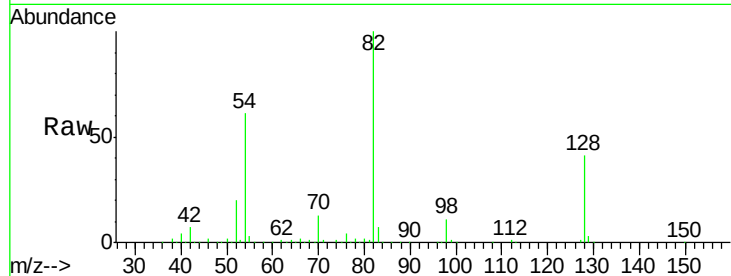
Tot Ion: 82 Resp: 852437

Ion Ratio Lower Upper

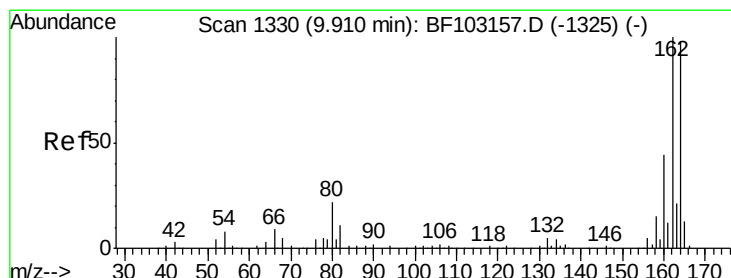
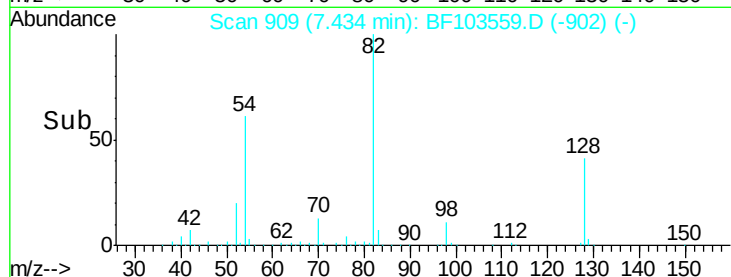
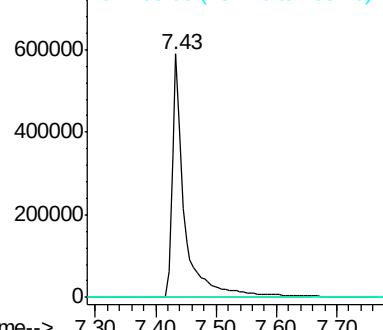
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.91 min Scan# 1330

Delta R.T. 0.00 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

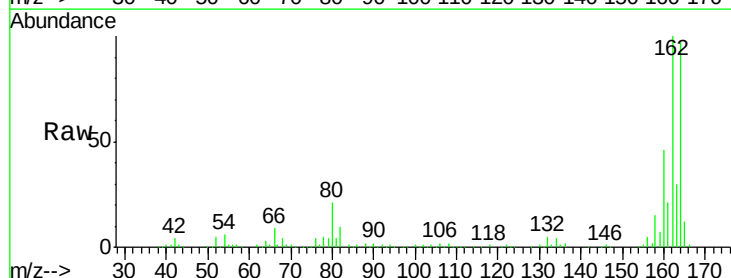
Tgt Ion:164 Resp: 241744

Ion Ratio Lower Upper

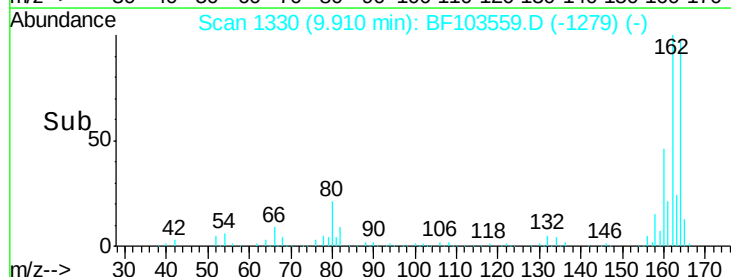
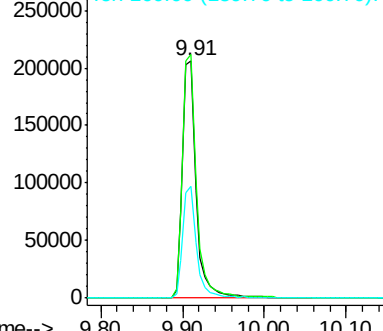
164 100

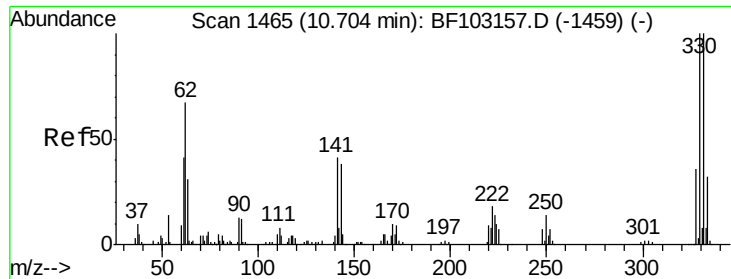
162 102.6 86.1 129.1

160 47.2 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

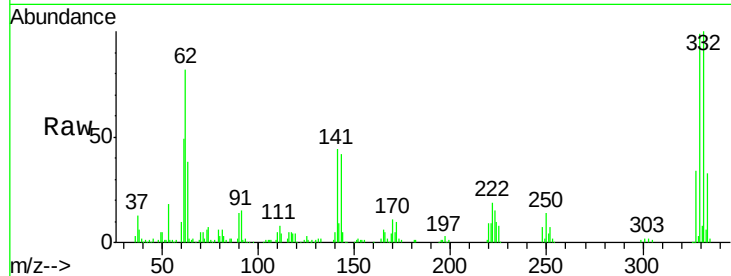




#41  
 2,4,6-Tribromophenol  
 Concen: 84.880 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. 0.00 min  
 Lab File: BF103559.D  
 Acq: 9 Mar 2018 16:12

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 103.3 | 77.0  | 115.6 |
| 141     | 50.0  | 29.9  | 44.9# |

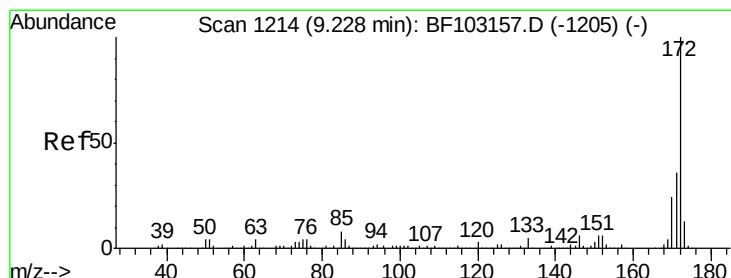
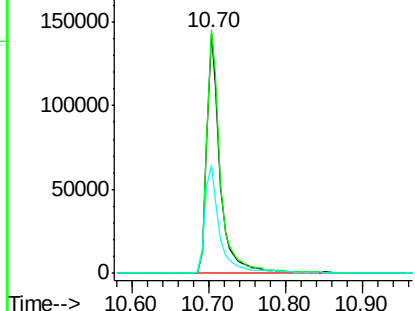
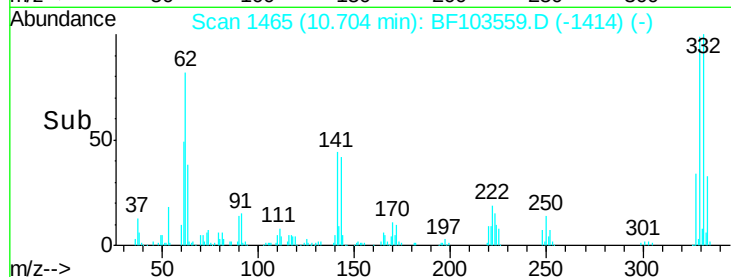


Abundance

Ion 329.80 (329.50 to 330.50): E

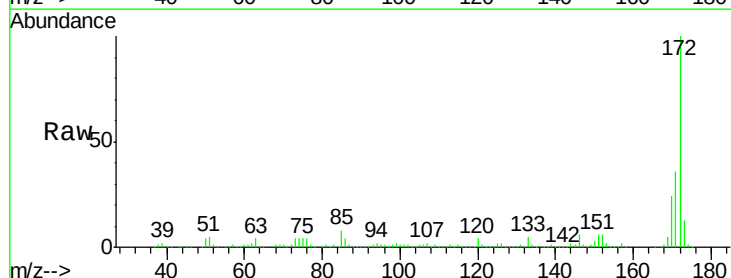
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 79.510 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. 0.00 min  
 Lab File: BF103559.D  
 Acq: 9 Mar 2018 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 29.7  | 44.5  |
| 170     | 24.4  | 19.6  | 29.4  |

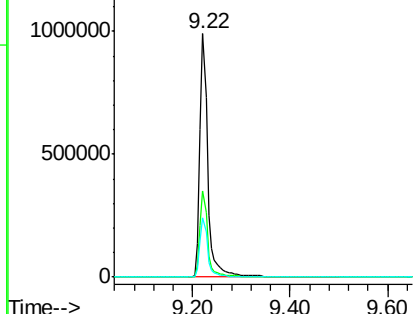
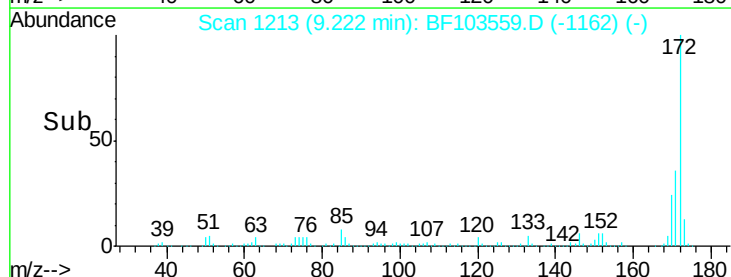


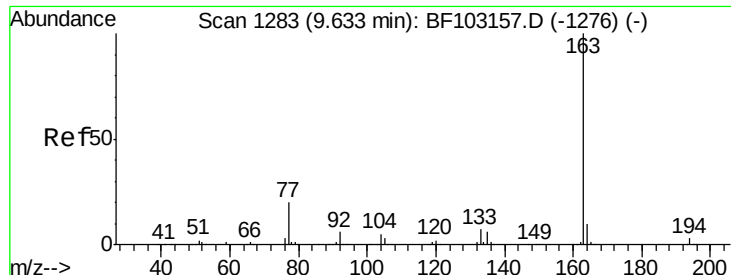
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

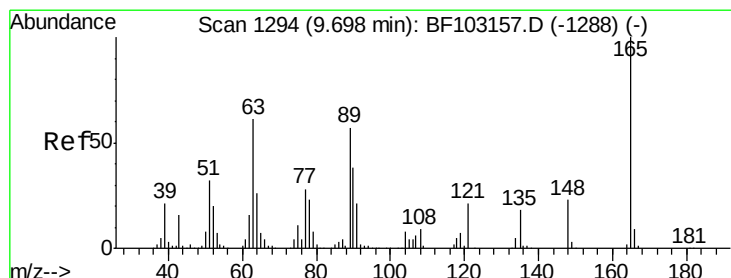
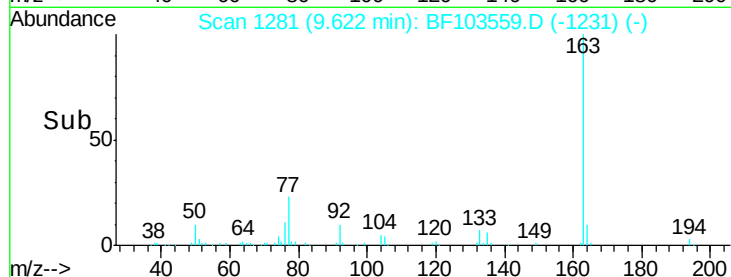
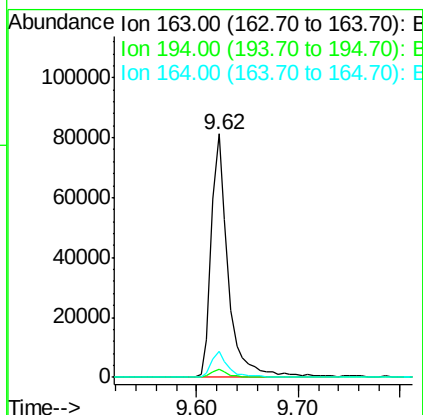
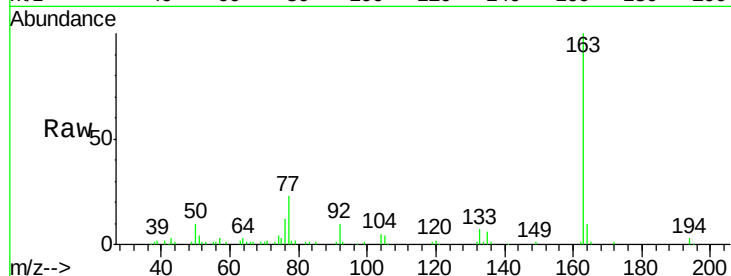




#49  
Dimethylphthalate  
Concen: 4.888 ng  
RT: 9.62 min Scan# 1281  
Delta R.T. -0.01 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

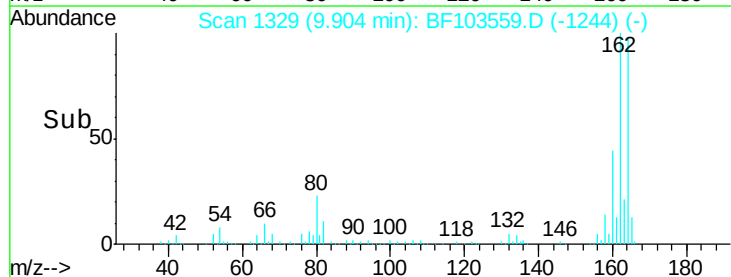
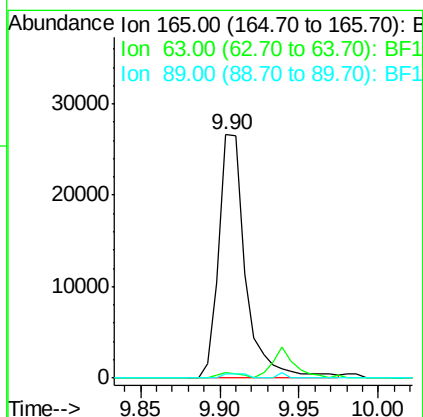
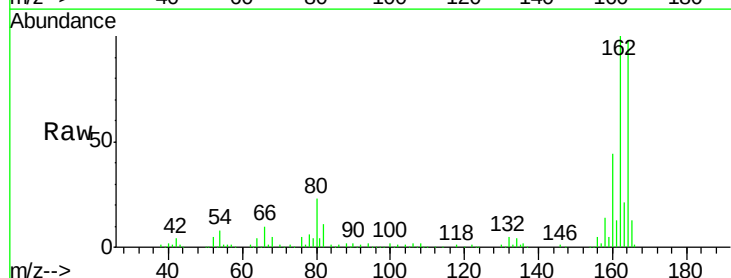
Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:163 Resp: 94795  
Ion Ratio Lower Upper  
163 100  
194 3.1 2.7 4.1  
164 10.5 8.2 12.2

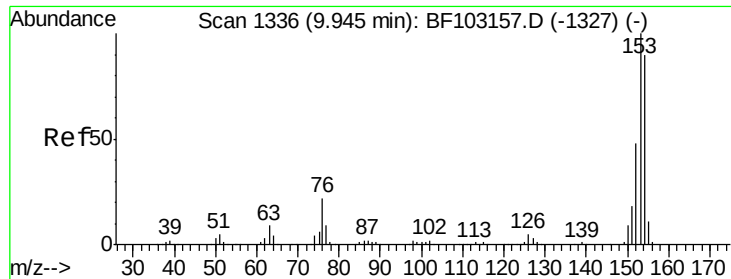


#50  
2,6-Dinitrotoluene  
Concen: 7.700 ng  
RT: 9.90 min Scan# 1329  
Delta R.T. 0.20 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

Tgt Ion:165 Resp: 31335  
Ion Ratio Lower Upper  
165 100  
63 2.1 44.7 67.1#  
89 1.6 44.0 66.0#







#51

Acenaphthene

Concen: 2.225 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

Instrument :

BNA\_F

ClientSampleId :

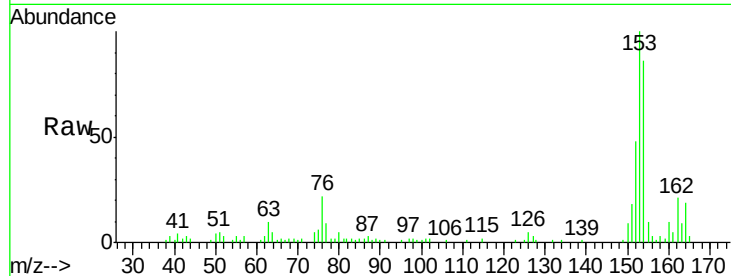
Tot Ion:154 Resp: 31993

Ion Ratio Lower Upper

154 100

153 115.8 91.2 136.8

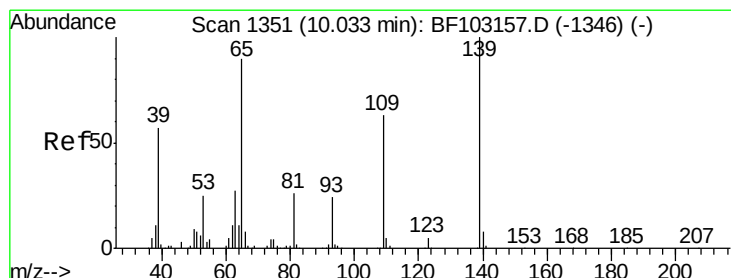
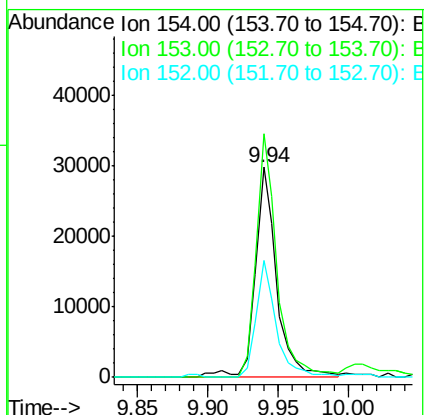
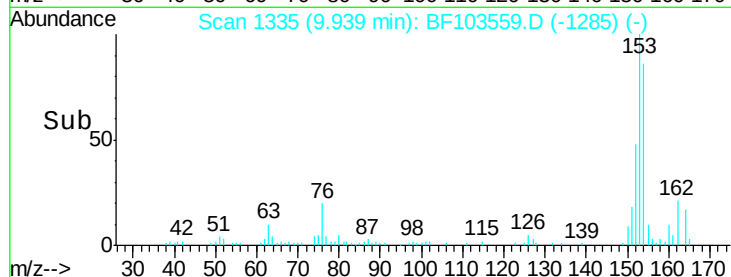
152 55.6 43.8 65.8



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



#55

4-Nitrophenol

Concen: 2.280 ng

RT: 10.12 min Scan# 1366

Delta R.T. 0.06 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

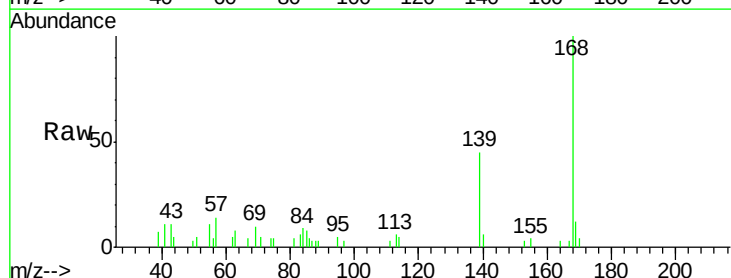
Tgt Ion:139 Resp: 7295

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

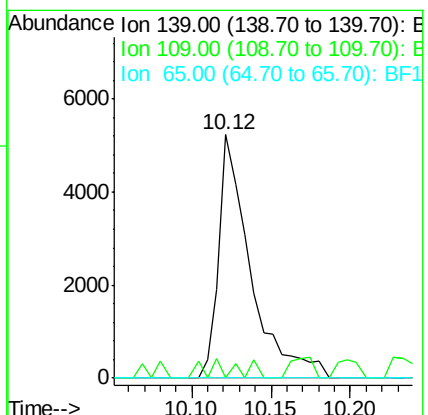
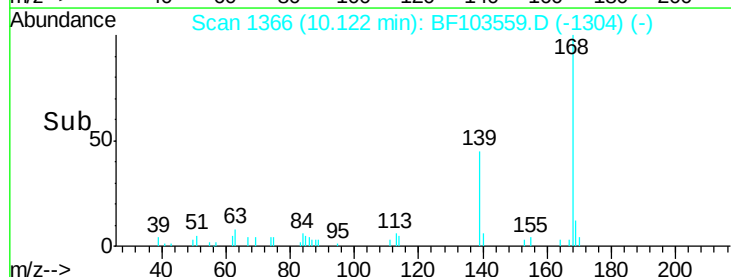
65 0.0 72.6 112.6#

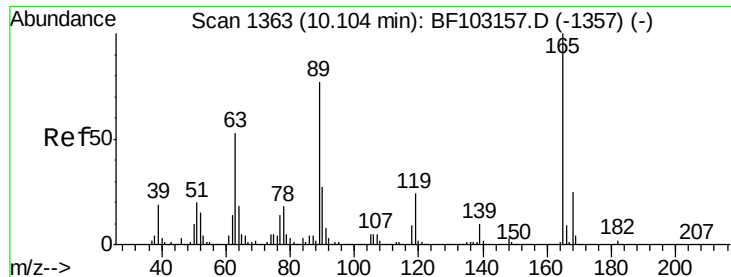


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

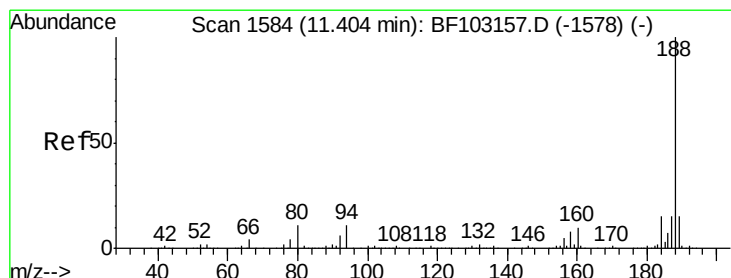
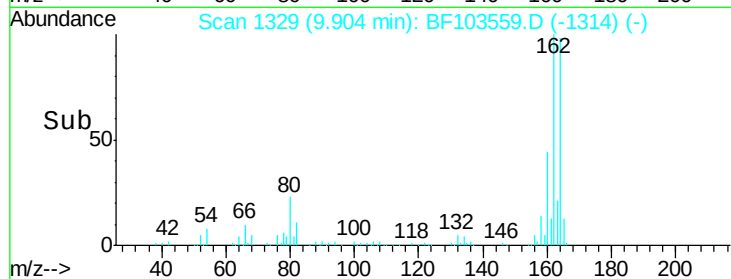
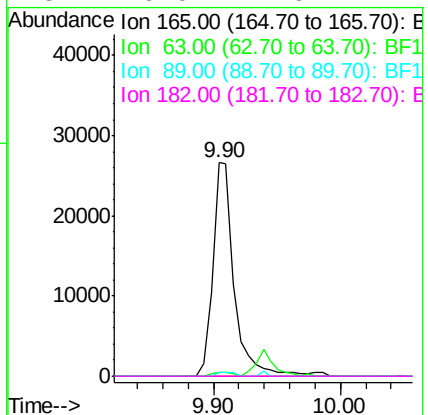
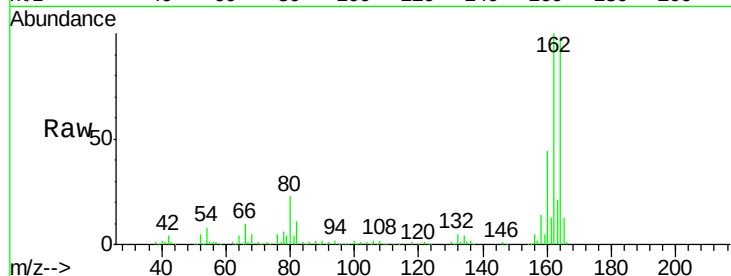




#56  
 2,4-Dinitrotoluene  
 Concen: 6.147 ng  
 RT: 9.90 min Scan# 1329  
 Delta R.T. -0.21 min  
 Lab File: BF103559.D  
 Acq: 9 Mar 2018 16:12

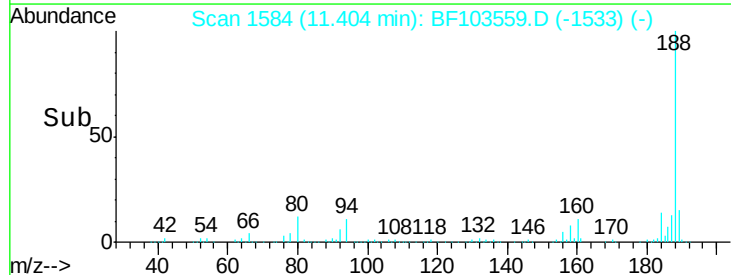
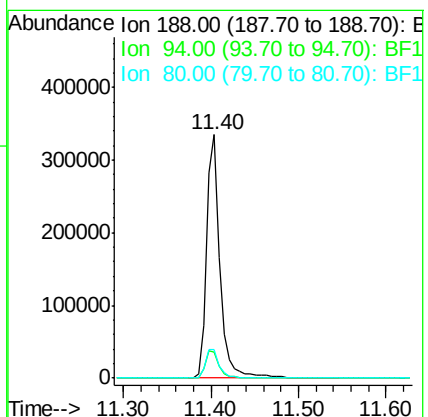
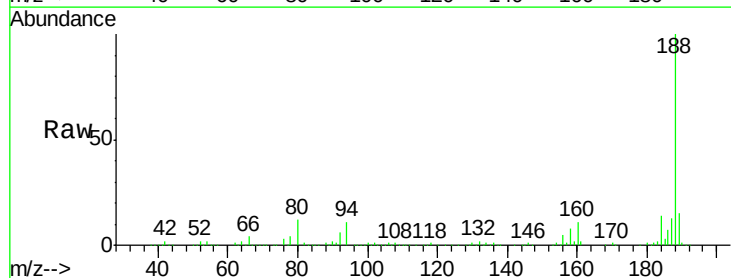
Instrument :  
 BNA\_F  
 ClientSampleId :

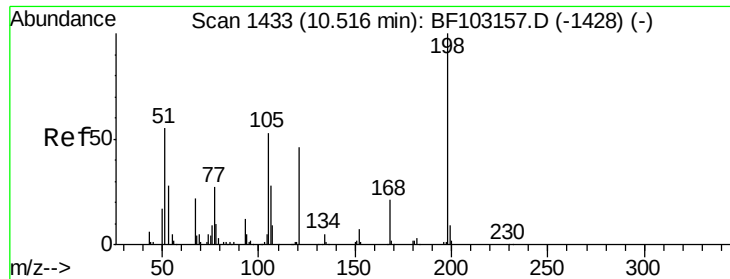
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 31641 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 2.1   | 36.4  | 54.6# |
| 89       | 1.6   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. 0.00 min  
 Lab File: BF103559.D  
 Acq: 9 Mar 2018 16:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 356345 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 10.7  | 8.5   | 12.7   |
| 80       | 11.6  | 9.2   | 13.8   |





#64

4,6-Dinitro-2-methylphenol

Concen: 5.064 ng

RT: 10.70 min Scan# 1465

Delta R.T. 0.17 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

Instrument :

BNA\_F

ClientSampled :

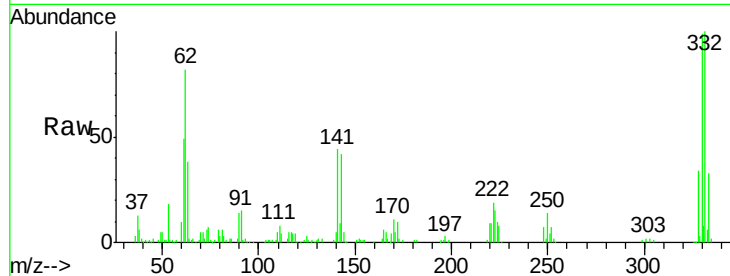
Tot Ion:198 Resp: 286

Ion Ratio Lower Upper

198 100

51 216.5 37.7 77.7#

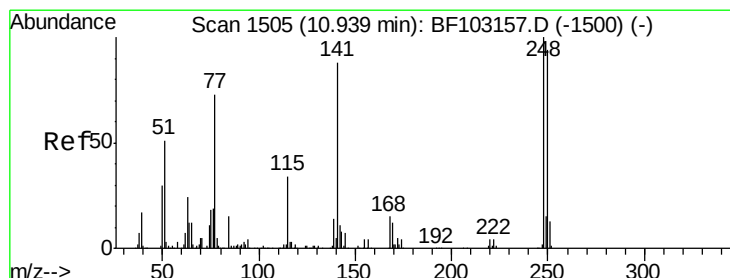
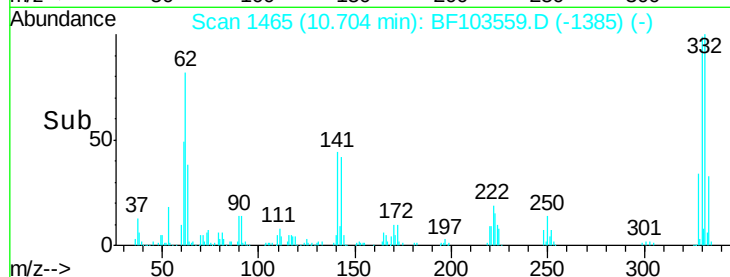
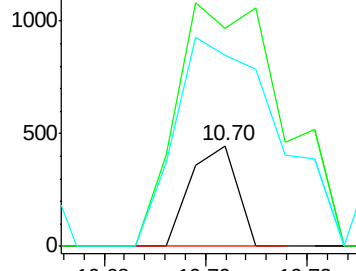
105 188.8 36.3 76.3#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.366 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.24 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

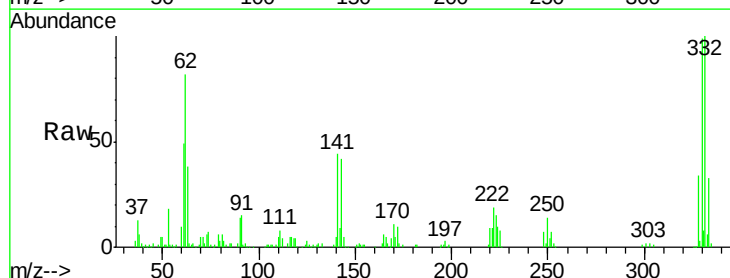
Tgt Ion:248 Resp: 12493

Ion Ratio Lower Upper

248 100

250 192.2 76.9 115.3#

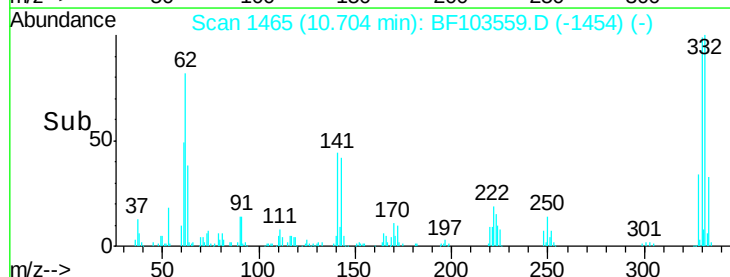
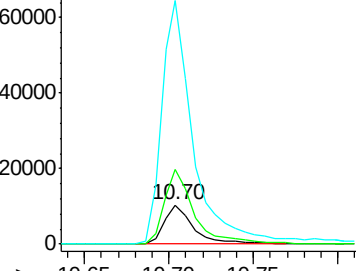
141 626.4 74.4 111.6#

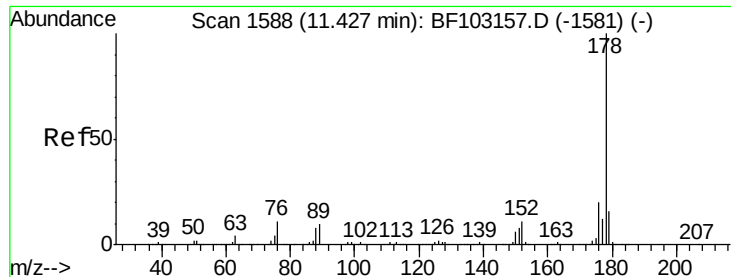


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 17.302 ng

RT: 11.43 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

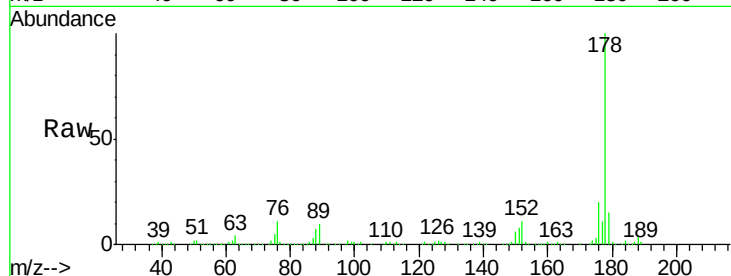
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:178 Resp: 339310

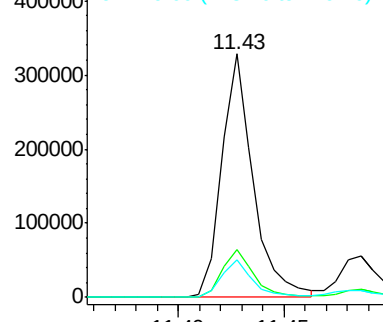
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.7  | 15.8  | 23.8  |
| 179 | 15.5  | 13.0  | 19.6  |



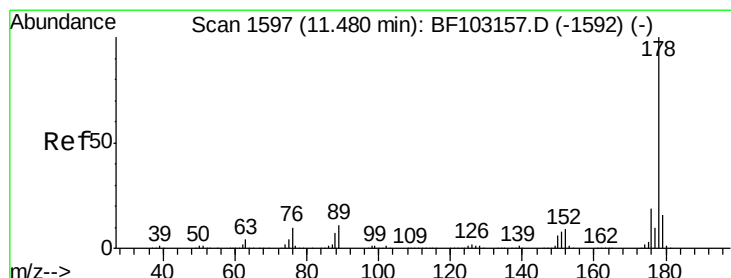
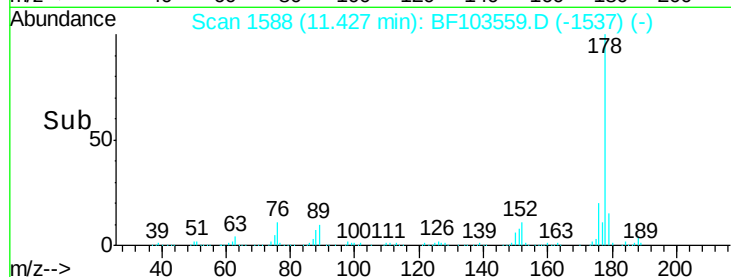
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#71

Anthracene

Concen: 4.112 ng

RT: 11.49 min Scan# 1598

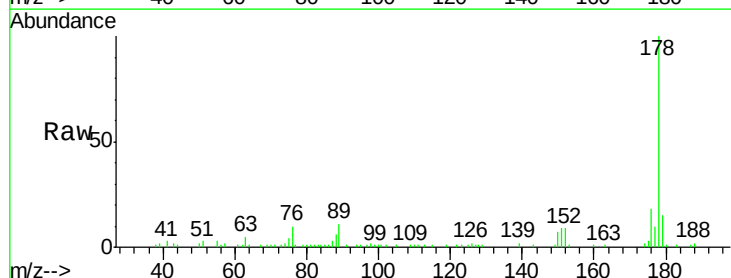
Delta R.T. 0.01 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

Tgt Ion:178 Resp: 82684

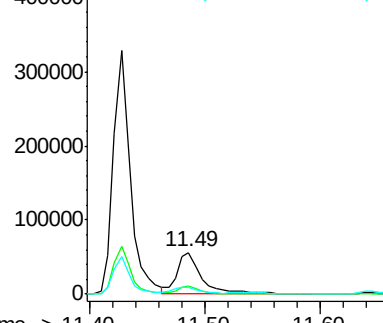
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.4  | 15.4  | 23.2  |
| 179 | 15.3  | 12.6  | 19.0  |



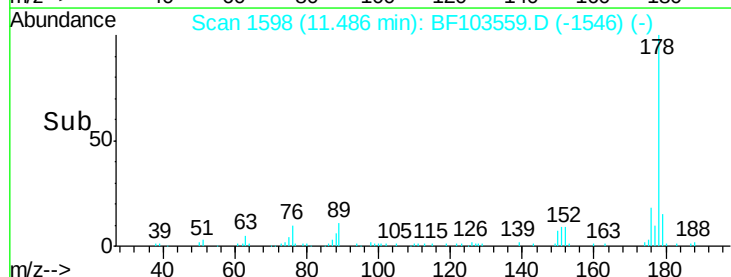
Abundance Ion 178.00 (177.70 to 178.70): E

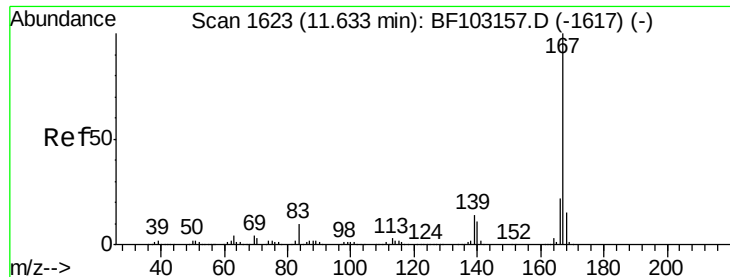
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->

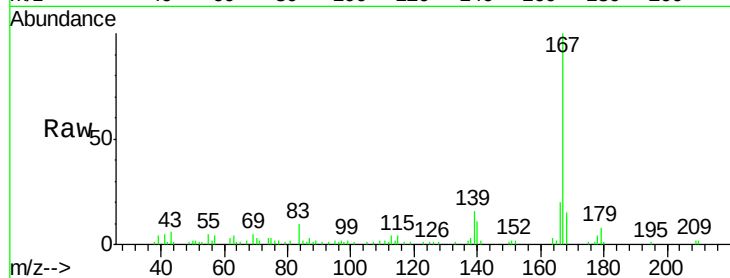




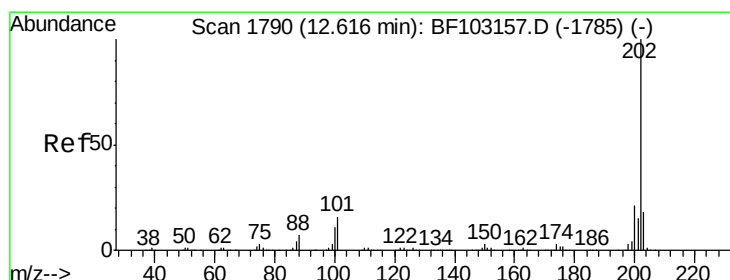
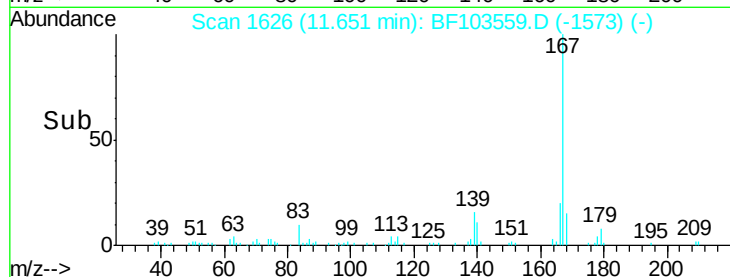
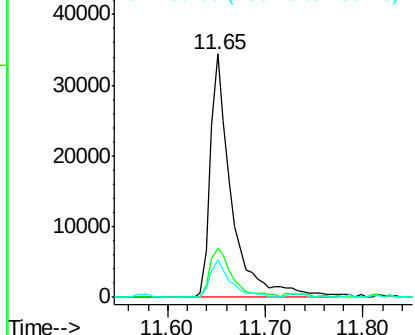
#72  
 Carbazole  
 Concen: 2.602 ng  
 RT: 11.65 min Scan# 1626  
 Delta R.T. 0.01 min  
 Lab File: BF103559.D  
 Acq: 9 Mar 2018 16:12

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:167 Resp: 52117  
 Ion Ratio Lower Upper  
 167 100  
 166 20.2 17.6 26.4  
 139 15.6 10.9 16.3

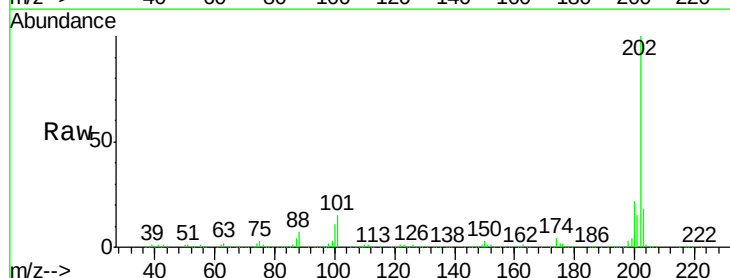


Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E

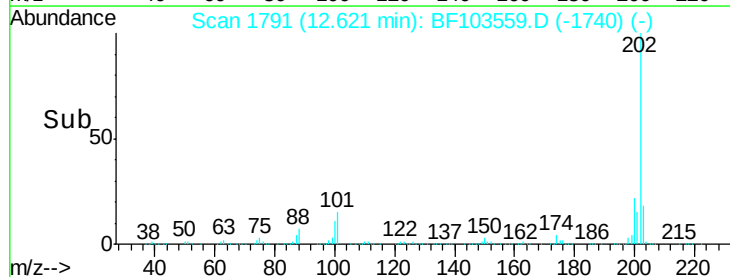
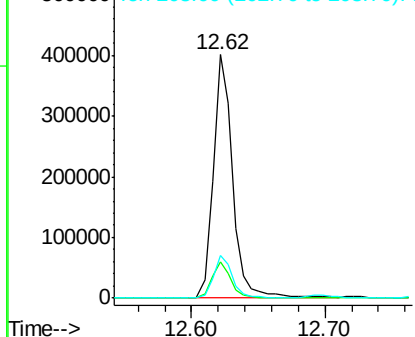


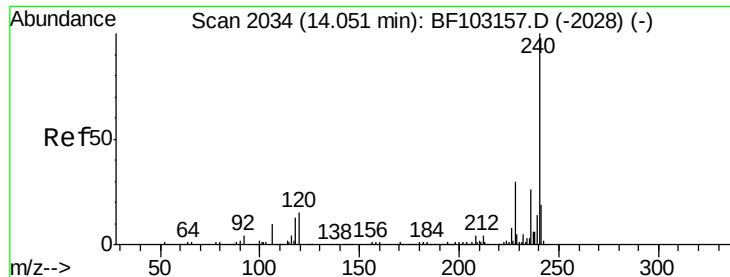
#74  
 Fluoranthene  
 Concen: 20.816 ng  
 RT: 12.62 min Scan# 1791  
 Delta R.T. 0.00 min  
 Lab File: BF103559.D  
 Acq: 9 Mar 2018 16:12

Tgt Ion:202 Resp: 410208  
 Ion Ratio Lower Upper  
 202 100  
 101 14.8 0.0 34.1  
 203 17.5 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

Instrument :

BNA\_F

ClientSampled :

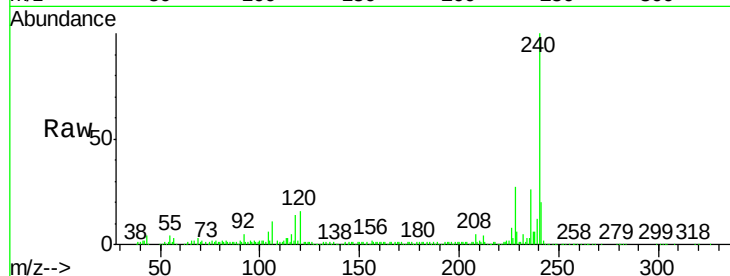
Tot Ion:240 Resp: 220811

Ion Ratio Lower Upper

240 100

120 16.1 9.5 14.3#

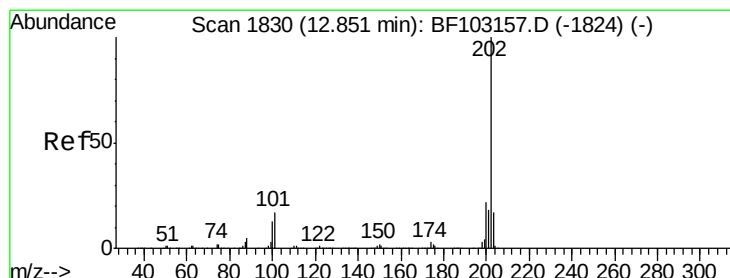
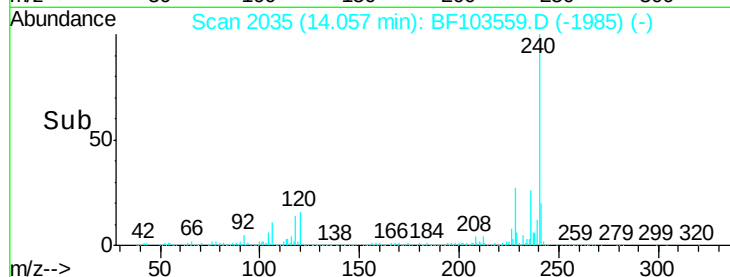
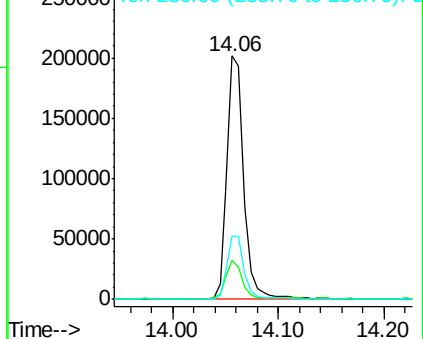
236 26.1 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 19.298 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.00 min

Lab File: BF103559.D

Acq: 9 Mar 2018 16:12

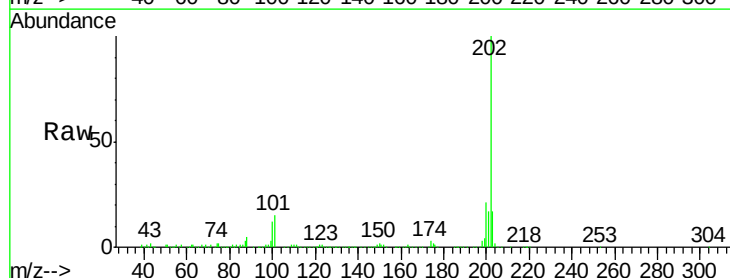
Tgt Ion:202 Resp: 332233

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

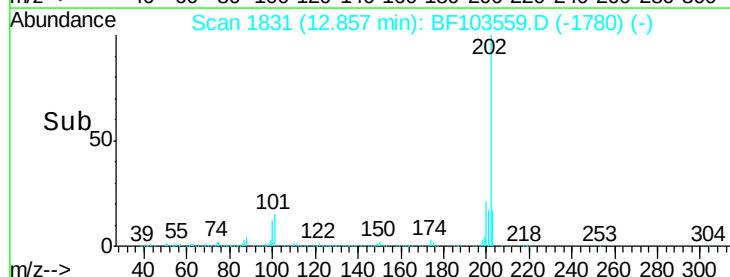
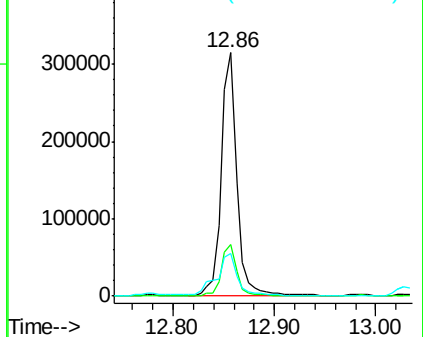
203 17.3 14.3 21.5

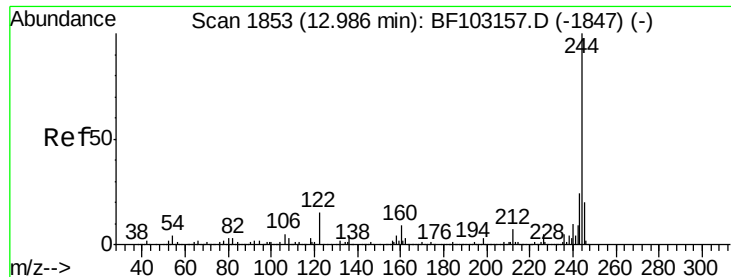


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

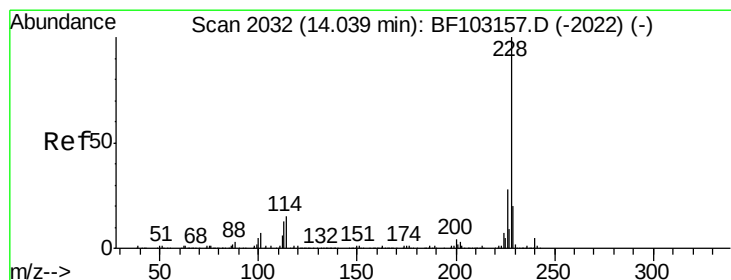
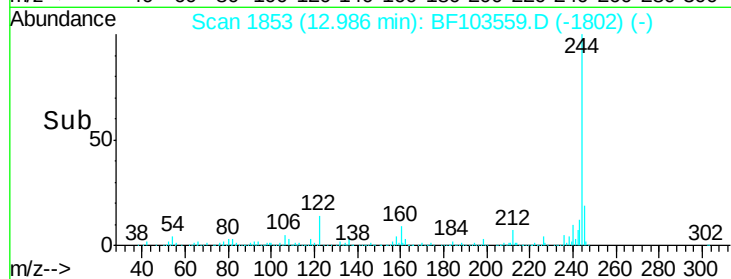
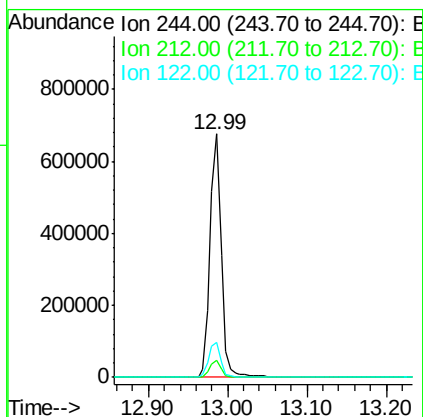
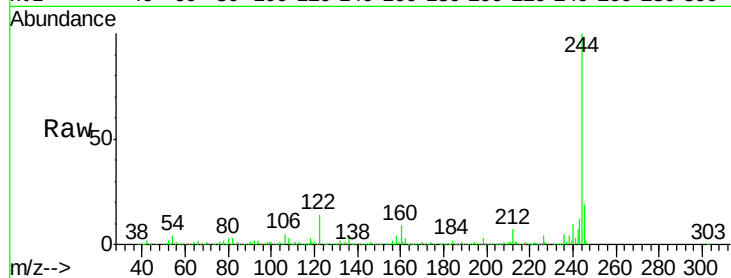




#78  
 Terphenyl-d14  
 Concen: 73.381 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. 0.00 min  
 Lab File: BF103559.D  
 Acq: 9 Mar 2018 16:12

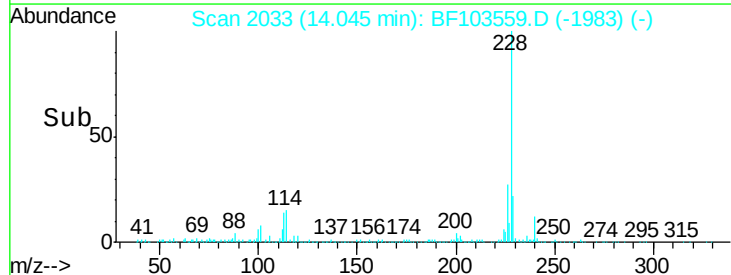
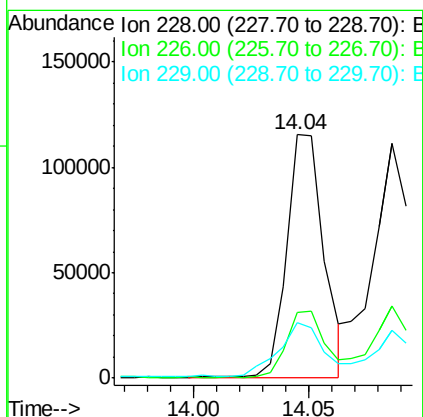
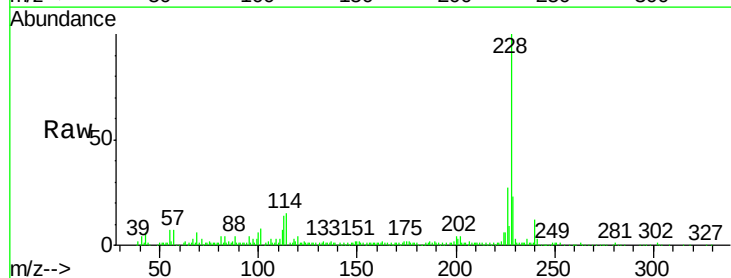
Instrument :  
 BNA\_F  
 ClientSampleId :

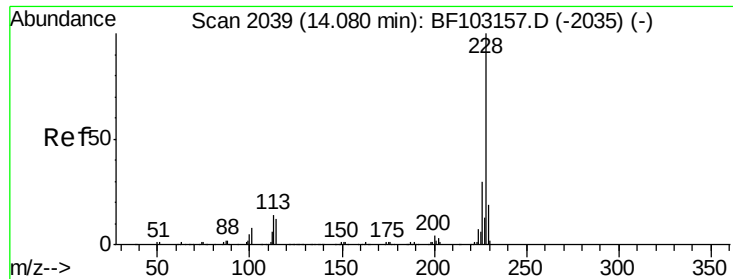
Tot Ion:244 Resp: 674057  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.4 8.0  
 122 14.5 11.0 16.4



#80  
 Benzo(a)anthracene  
 Concen: 8.915 ng  
 RT: 14.04 min Scan# 2033  
 Delta R.T. -0.01 min  
 Lab File: BF103559.D  
 Acq: 9 Mar 2018 16:12

Tgt Ion:228 Resp: 127722  
 Ion Ratio Lower Upper  
 228 100  
 226 27.1 22.6 33.8  
 229 22.7 15.8 23.6

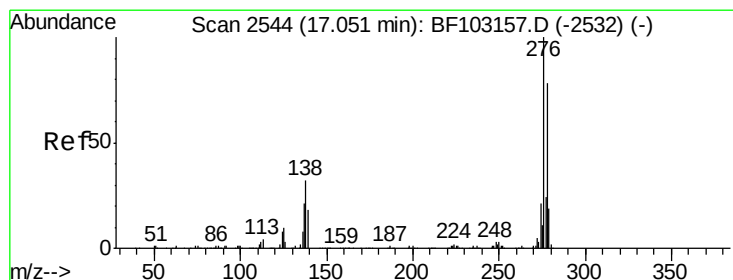
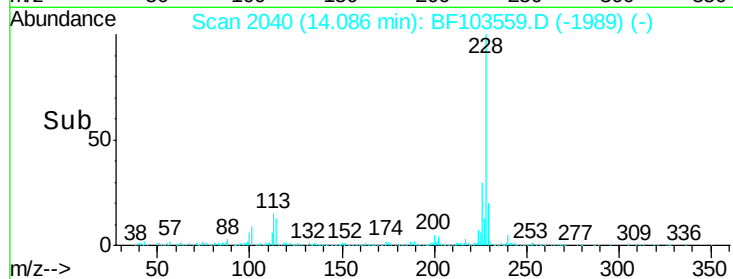
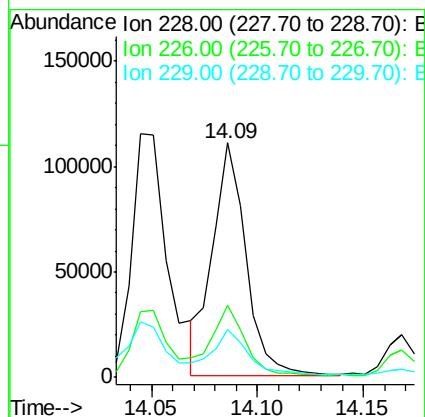
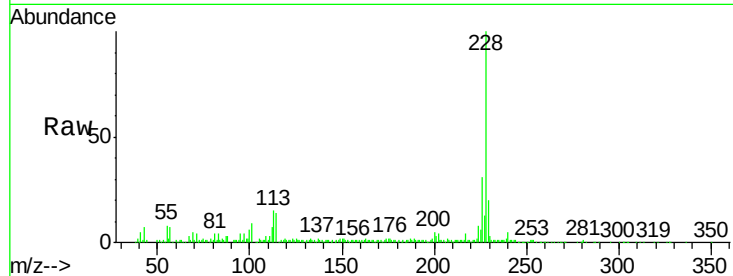




#82  
Chrysene  
Concen: 8.866 ng  
RT: 14.09 min Scan# 2040  
Delta R.T. 0.00 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

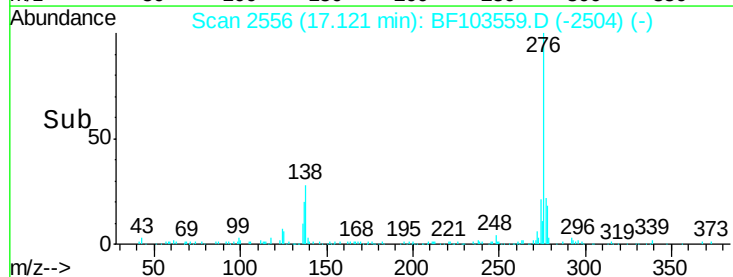
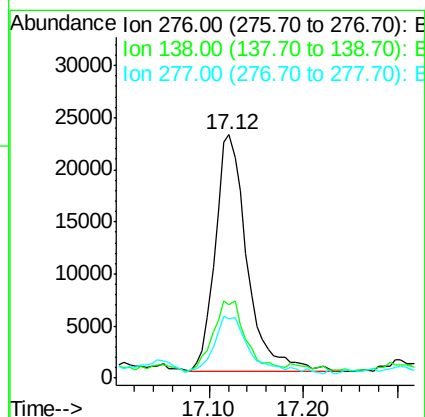
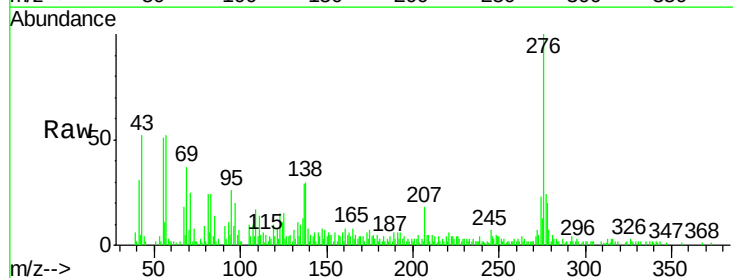
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:228 Resp: 123334  
Ion Ratio Lower Upper  
228 100  
226 30.9 25.0 37.6  
229 20.3 16.2 24.4

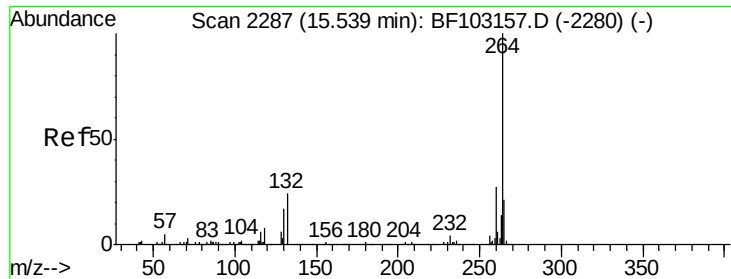


#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.930 ng  
RT: 17.12 min Scan# 2556  
Delta R.T. 0.01 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

Tgt Ion:276 Resp: 54298  
Ion Ratio Lower Upper  
276 100  
138 29.8 25.0 37.6  
277 27.7 20.1 30.1



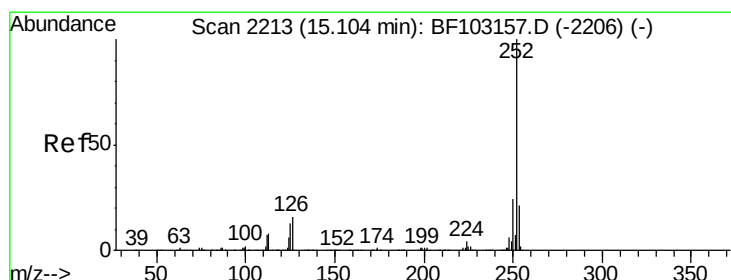
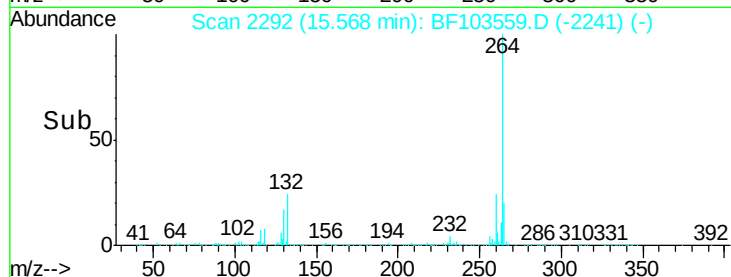
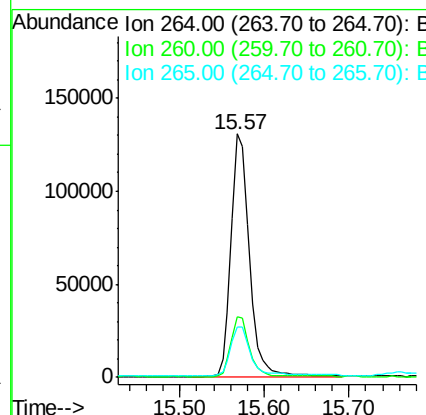
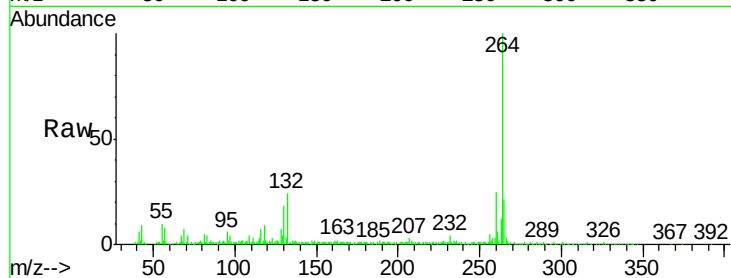




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.57 min Scan# 2292  
Delta R.T. 0.00 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

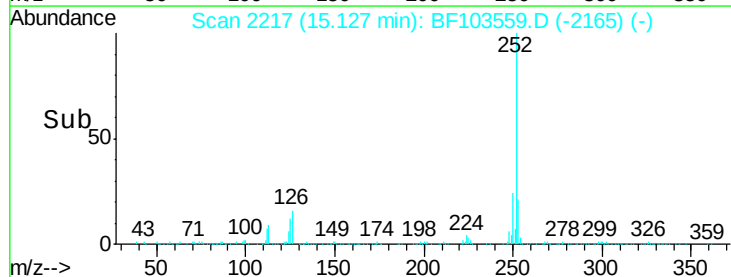
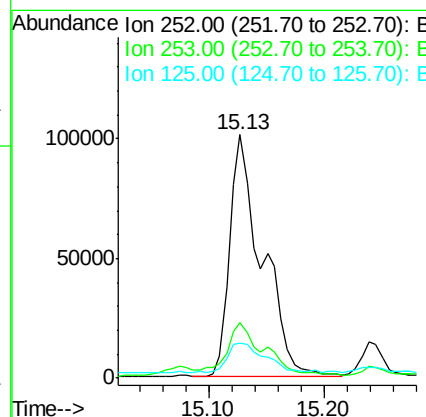
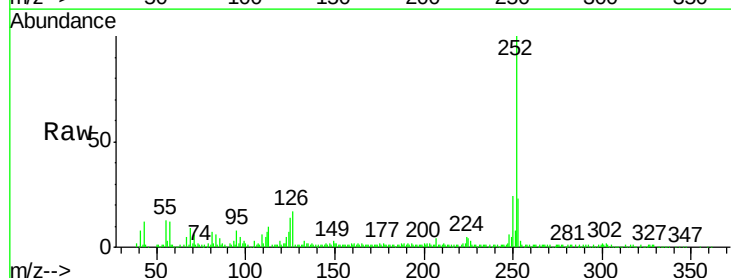
Instrument :  
BNA\_F  
ClientSampleId :

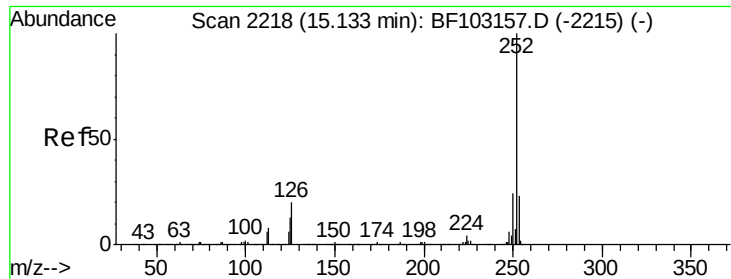
Tot Ion:264 Resp: 195123  
Ion Ratio Lower Upper  
264 100  
260 24.8 19.2 28.8  
265 20.9 17.5 26.3



#87  
Benzo(b)fluoranthene  
Concen: 15.283 ng  
RT: 15.13 min Scan# 2217  
Delta R.T. 0.01 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

Tgt Ion:252 Resp: 196071  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.0 25.6  
125 14.4 9.0 13.6#

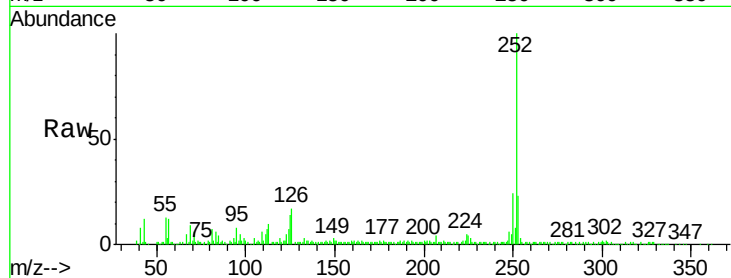




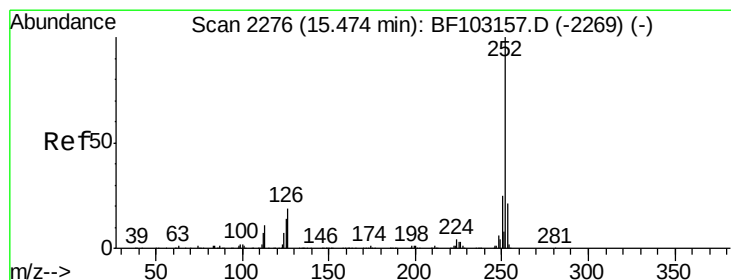
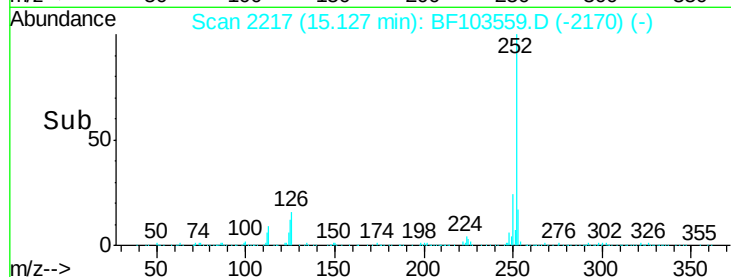
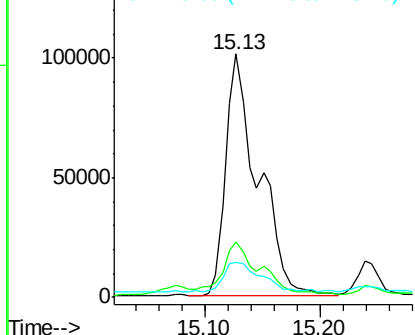
#88  
Benzo(k)fluoranthene  
Concen: 16.230 ng  
RT: 15.13 min Scan# 2217  
Delta R.T. -0.02 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 196071  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.9 26.9  
125 14.4 10.2 15.2

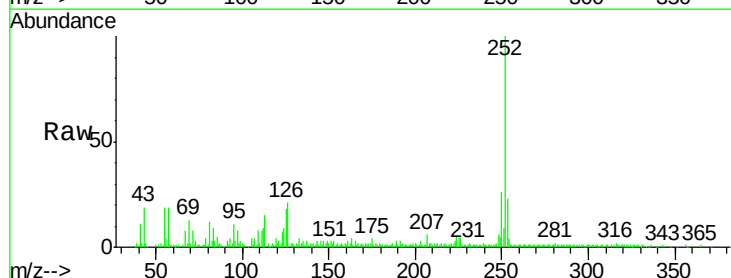


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

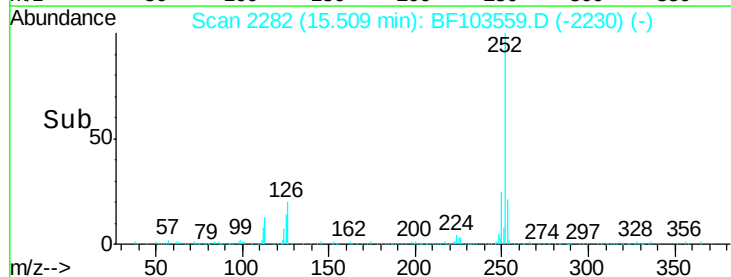
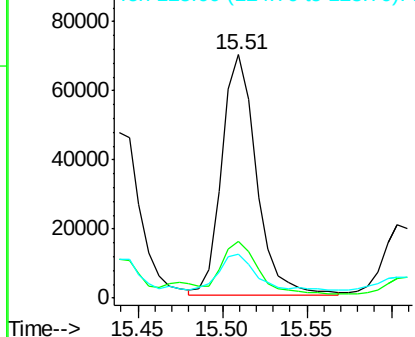


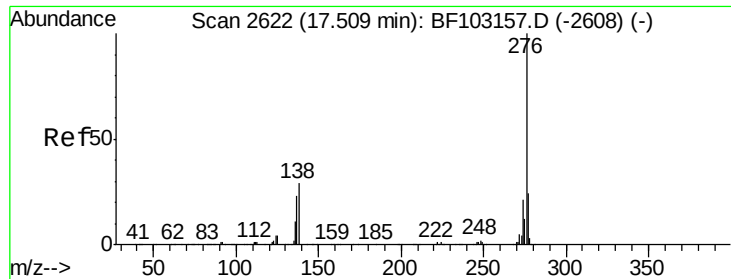
#89  
Benzo(a)pyrene  
Concen: 8.781 ng  
RT: 15.51 min Scan# 2282  
Delta R.T. 0.01 min  
Lab File: BF103559.D  
Acq: 9 Mar 2018 16:12

Tgt Ion:252 Resp: 100595  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.1 25.7  
125 18.0 9.8 14.6#



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

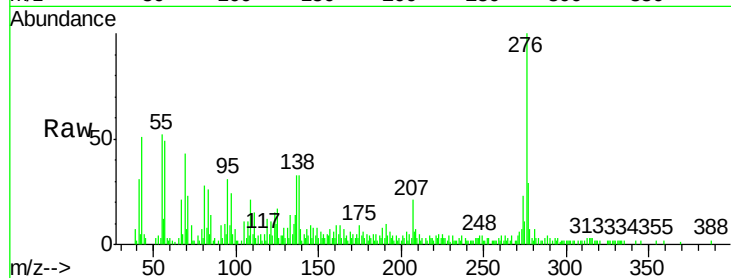




#91  
 Benzo(a,h,i)perylene  
 Concen: 5.785 ng  
 RT: 17.60 min Scan# 2637  
 Delta R.T. 0.01 min  
 Lab File: BF103559.D  
 Acq: 9 Mar 2018 16:12

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 29.4  | 17.9  | 26.9  |
| 138     | 33.1  | 21.8  | 32.8  |



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

