

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080315\  
 Data File : BF080835.D  
 Acq On : 4 Aug 2015 10:46  
 Operator : TP  
 Sample : G3145-03  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-SF-03-003-B

Quant Time: Aug 04 12:11:08 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF080315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 04 01:58:34 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.83  | 152  | 166788   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.11  | 136  | 551115   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.87  | 164  | 220240   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.34 | 188  | 348738   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.97 | 240  | 360946   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.39 | 264  | 331333   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.45  | 112  | 1387631  | 138.71 | ng    | 0.01     |
| 7) Phenol-d6                | 6.46  | 99   | 1747630  | 129.87 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 1287018  | 115.24 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 292984   | 138.82 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 1654909  | 113.58 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.93 | 244  | 1094273  | 60.42  | ng    | 0.00     |

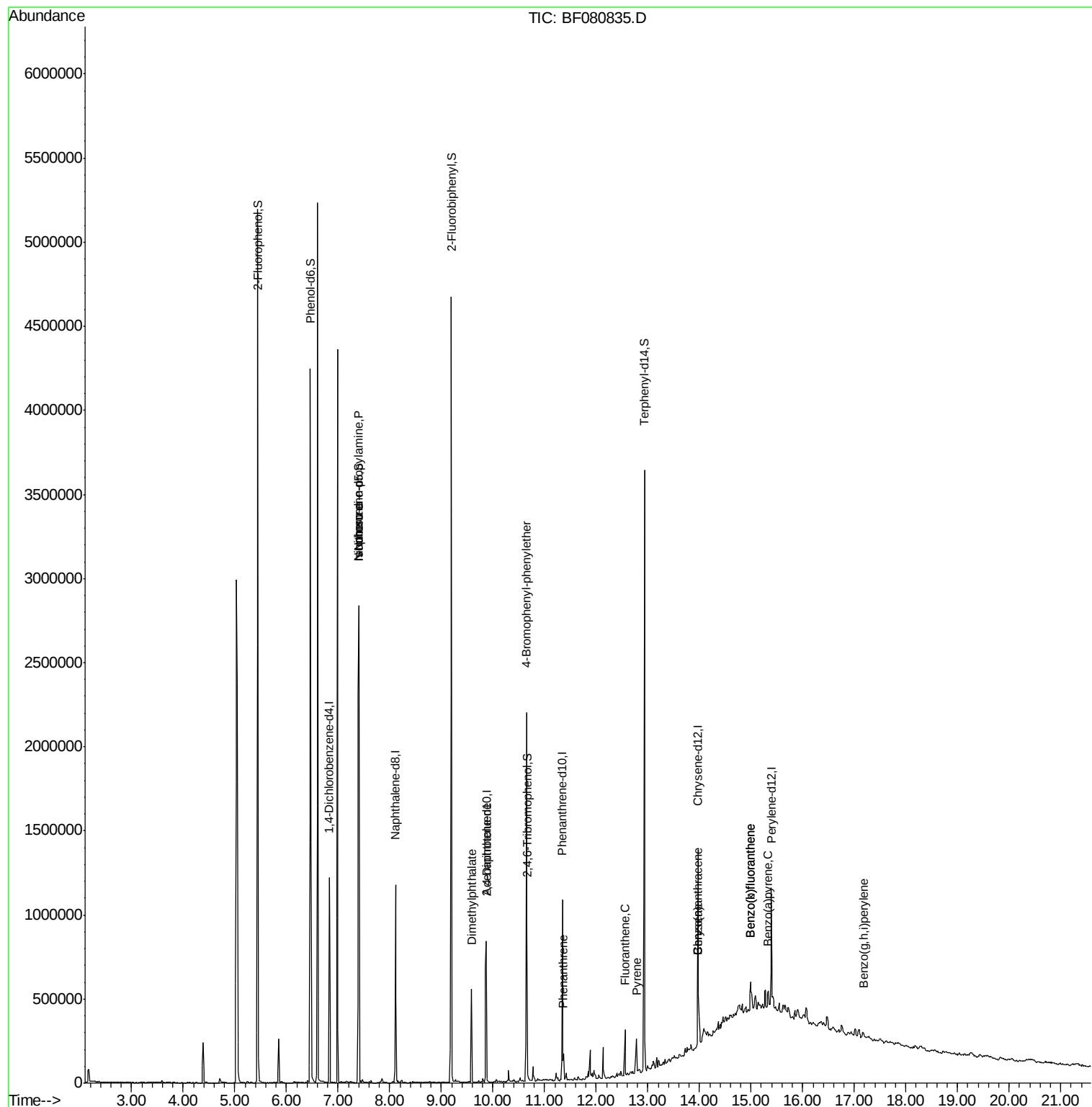
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.46  | 77   | 2718     | Below Cal | #     | 2      |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 171156   | 19.66     | ng    | 68     |
| 25) Isophorone                 | 7.40  | 82   | 1177864  | 58.97     | ng    | 66     |
| 49) Dimethylphthalate          | 9.58  | 163  | 195133   | 13.26     | ng    | 99     |
| 56) 2,4-Dinitrotoluene         | 9.87  | 165  | 28661    | 7.15      | ng    | 12     |
| 66) 4-Bromophenyl-phenylether  | 10.65 | 248  | 17888    | 4.67      | ng    | 1      |
| 70) Phenanthrene               | 11.37 | 178  | 53029    | 2.92      | ng    | 97     |
| 74) Fluoranthene               | 12.56 | 202  | 123225   | 7.09      | ng    | 94     |
| 77) Pyrene                     | 12.79 | 202  | 125975   | 4.71      | ng    | 96     |
| 80) Benzo(a)anthracene         | 13.96 | 228  | 89232    | 4.33      | ng    | 95     |
| 82) Chrysene                   | 13.96 | 228  | 89232    | 4.46      | ng    | 97     |
| 87) Benzo(b)fluoranthene       | 14.99 | 252  | 114931   | 5.93      | ng    | 90     |
| 88) Benzo(k)fluoranthene       | 14.99 | 252  | 114931   | 6.80      | ng    | 92     |
| 89) Benzo(a)pyrene             | 15.33 | 252  | 59300    | 3.59      | ng    | 92     |
| 91) Benzo(a,h,i)perylene       | 17.17 | 276  | 33621    | 2.01      | ng    | 91     |

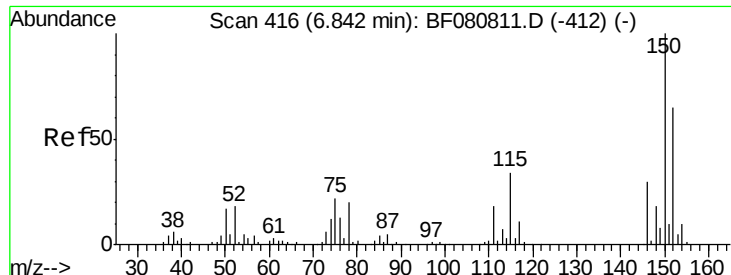
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080315\  
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Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-B

Quant Time: Aug 04 12:11:08 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF080315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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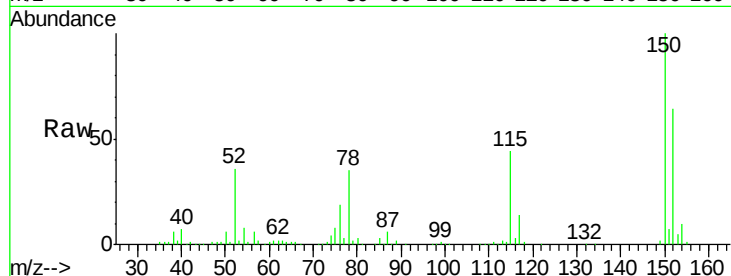




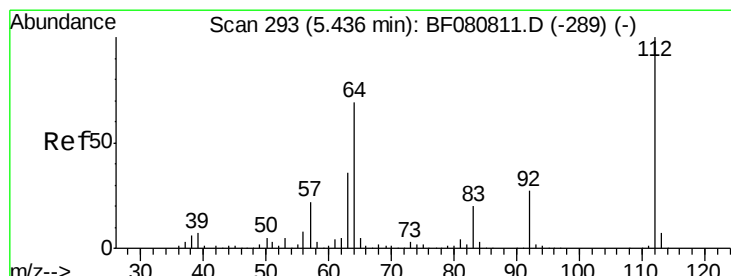
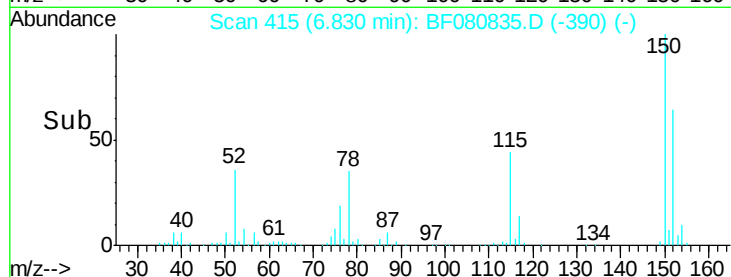
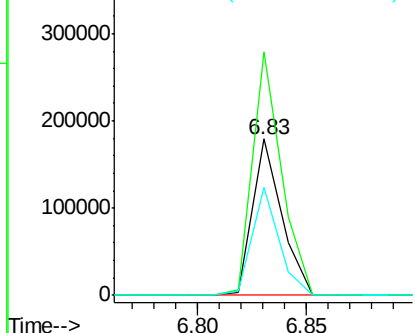
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.83 min Scan# 415  
 Delta R.T. -0.01 min  
 Lab File: BF080835.D  
 Acq: 4 Aug 2015 10:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-SF-03-003-B

Tot Ion:152 Resp: 166788  
 Ion Ratio Lower Upper  
 152 100  
 150 155.6 122.9 184.3  
 115 68.8 42.0 63.0#

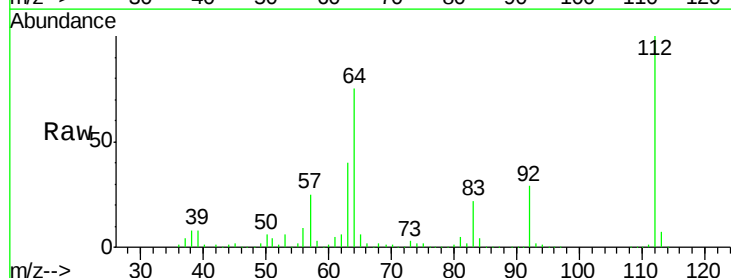


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

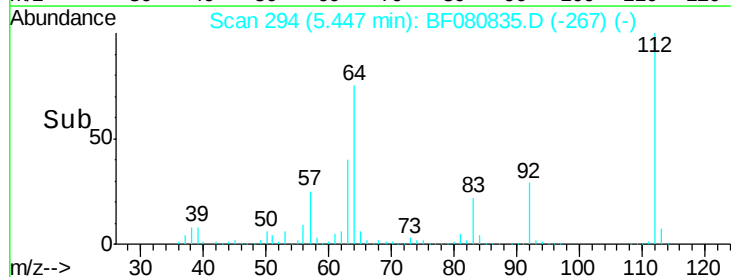
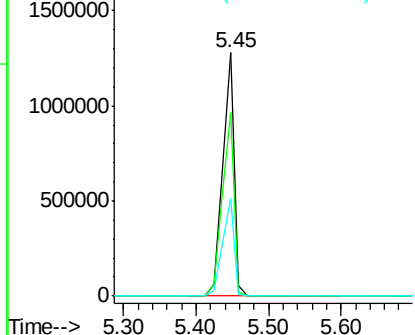


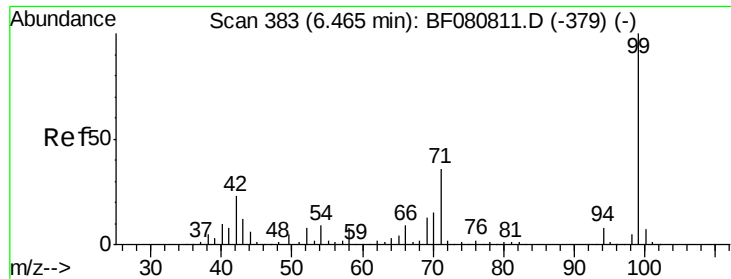
#5  
 2-Fluorophenol  
 Concen: 138.71 ng  
 RT: 5.45 min Scan# 294  
 Delta R.T. 0.01 min  
 Lab File: BF080835.D  
 Acq: 4 Aug 2015 10:46

Tgt Ion:112 Resp: 1387631  
 Ion Ratio Lower Upper  
 112 100  
 64 75.5 55.0 82.4  
 63 40.2 28.6 42.8



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





#7

Phenol-d6

Concen: 129.87 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.00 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

Instrument :

BNA\_F

ClientSampleId :

FK-SF-03-003-B

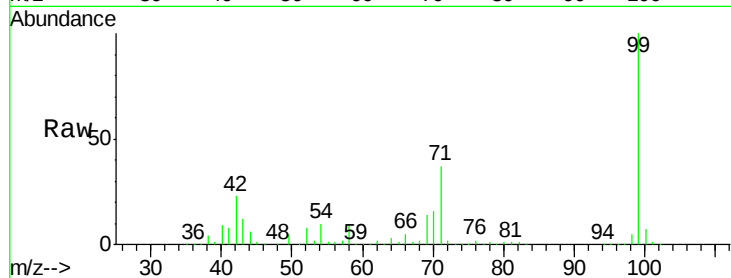
Tot Ion: 99 Resp: 1747630

Ion Ratio Lower Upper

99 100

42 22.9 18.4 27.6

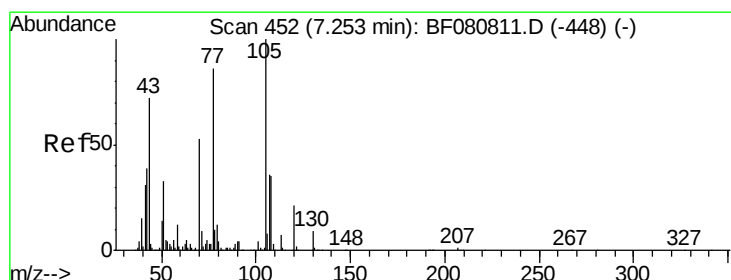
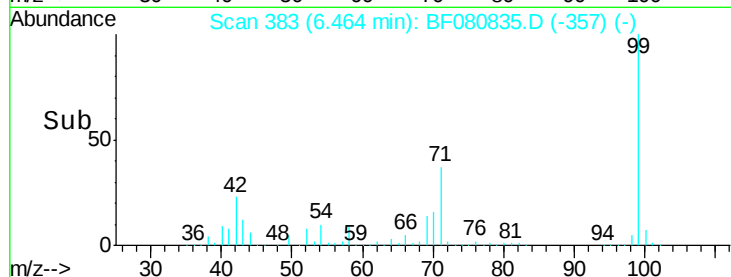
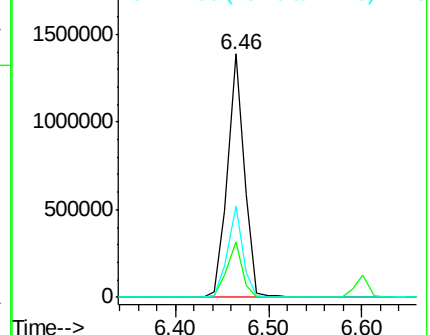
71 37.3 28.7 43.1



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



#19

n-Nitroso-di-n-propylamine

Concen: 19.66 ng

RT: 7.40 min Scan# 465

Delta R.T. 0.15 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

Tgt Ion: 70 Resp: 171156

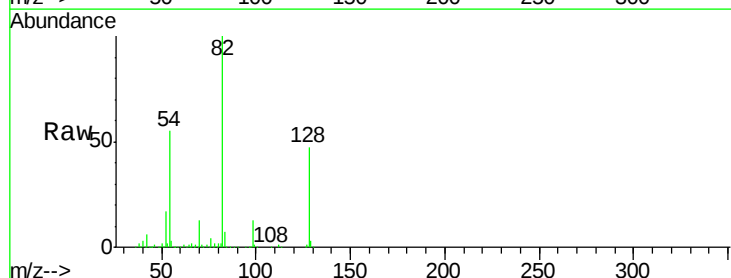
Ion Ratio Lower Upper

70 100

42 46.4 59.1 88.7#

101 0.0 6.6 10.0#

130 2.4 12.9 19.3#

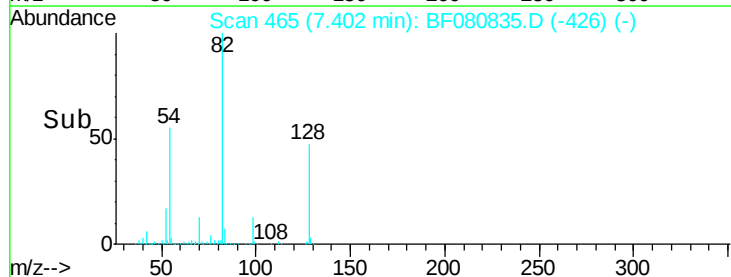
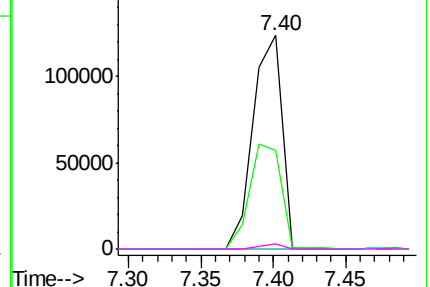


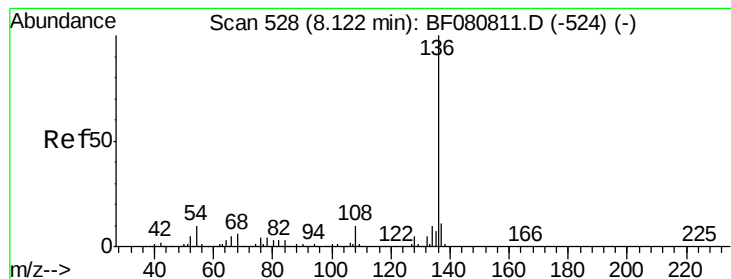
Abundance Ion 70.00 (69.70 to 70.70): BF0

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





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.11 min Scan# 527

Delta R.T. -0.01 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

Instrument :

BNA\_F

ClientSampleId :

FK-SF-03-003-B

Tot Ion:136 Resp: 551115

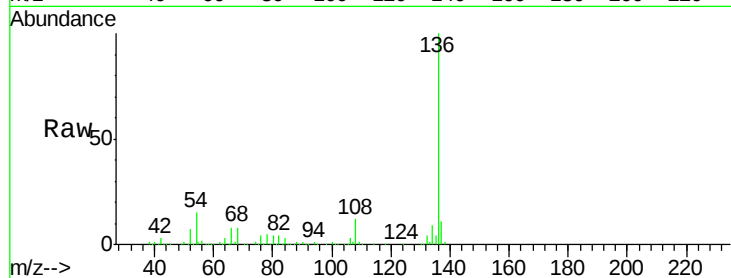
Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

54 14.8 7.9 11.9#

68 8.0 4.4 6.6#

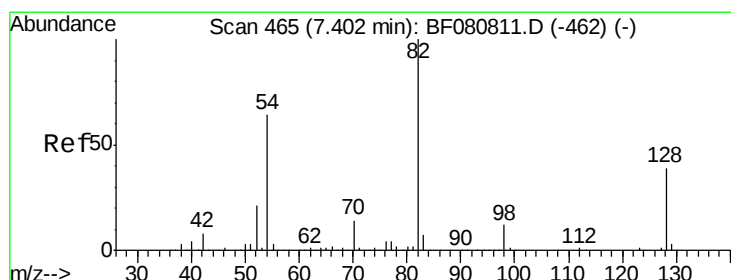
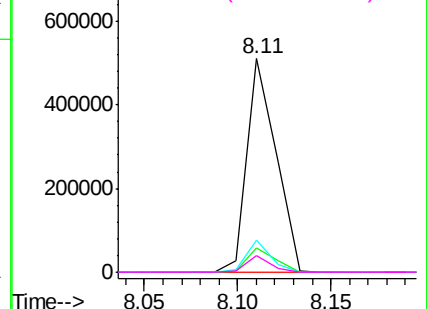
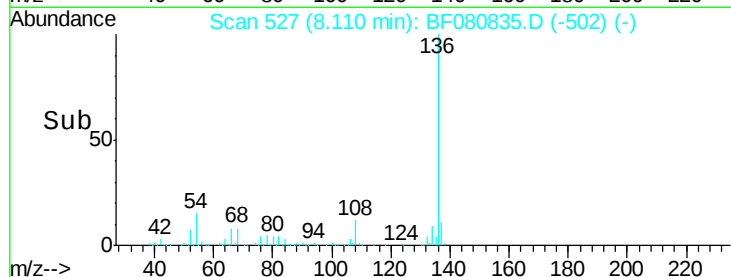


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 115.24 ng

RT: 7.40 min Scan# 465

Delta R.T. -0.00 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

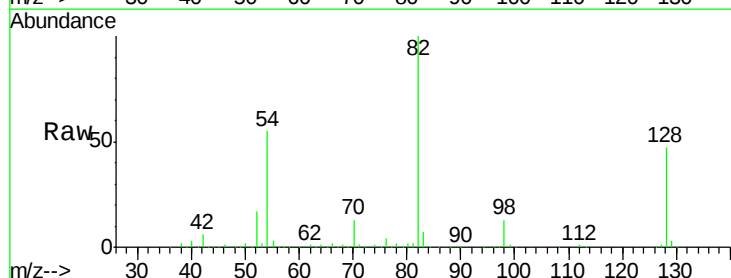
Tgt Ion: 82 Resp: 1287018

Ion Ratio Lower Upper

82 100

128 46.8 31.4 47.0

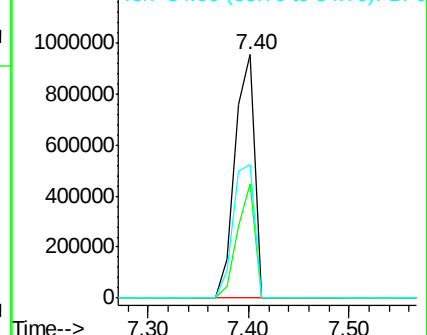
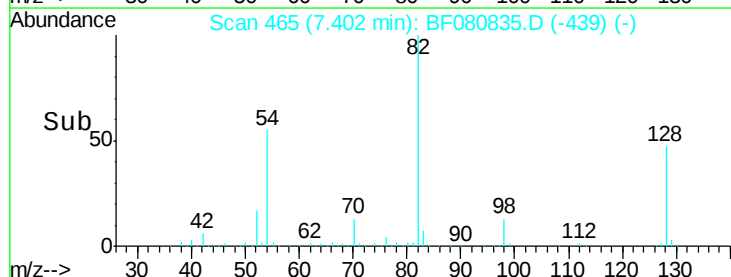
54 54.7 51.0 76.4

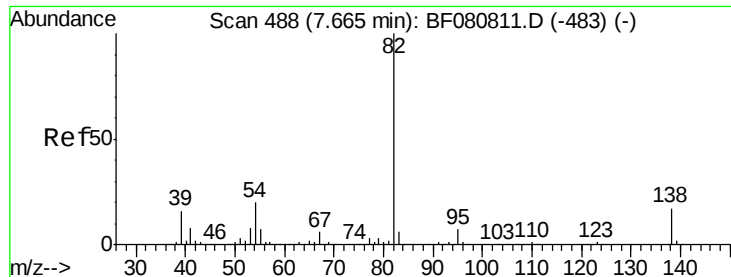


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 58.97 ng

RT: 7.40 min Scan# 465

Delta R.T. -0.26 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

Instrument :

BNA\_F

ClientSampleId :

FK-SF-03-003-B

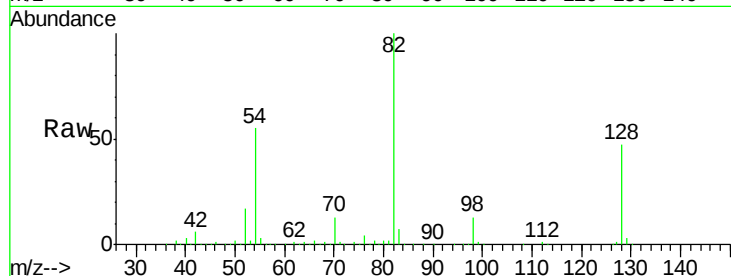
Tot Ion: 82 Resp: 1177864

Ion Ratio Lower Upper

82 100

95 0.0 5.9 8.9#

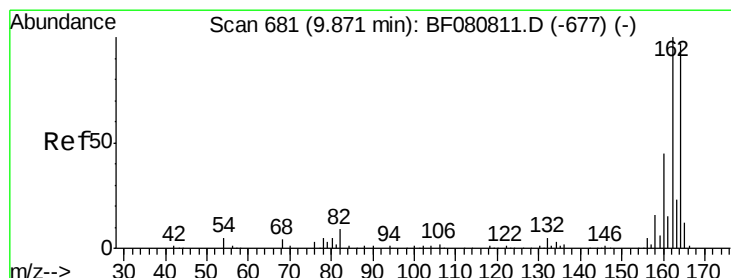
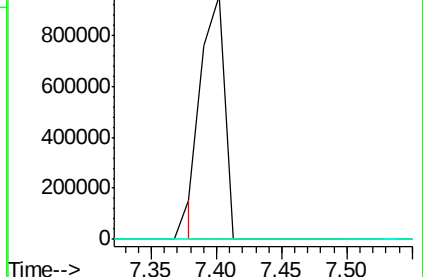
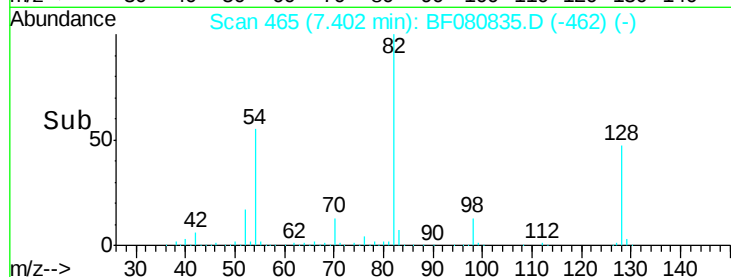
138 0.0 13.4 20.2#



Abundance Ion 82.00 (81.70 to 82.70): BF080835.D (-462) (-)

Ion 95.00 (94.70 to 95.70): BF080835.D (-462) (-)

Ion 138.00 (137.70 to 138.70): BF080835.D (-462) (-)



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 681

Delta R.T. -0.00 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

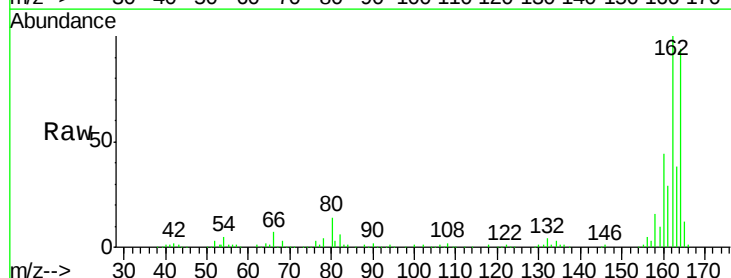
Tgt Ion: 164 Resp: 220240

Ion Ratio Lower Upper

164 100

162 106.0 82.3 123.5

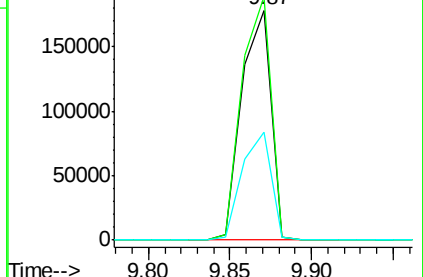
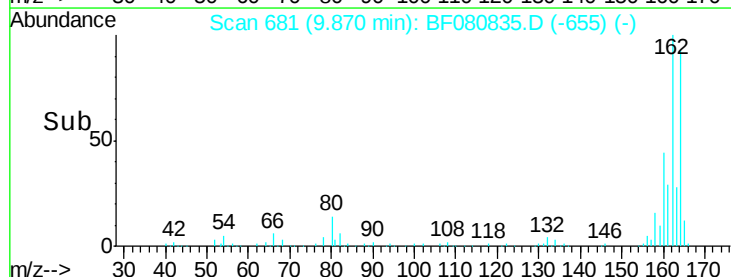
160 47.1 37.3 55.9

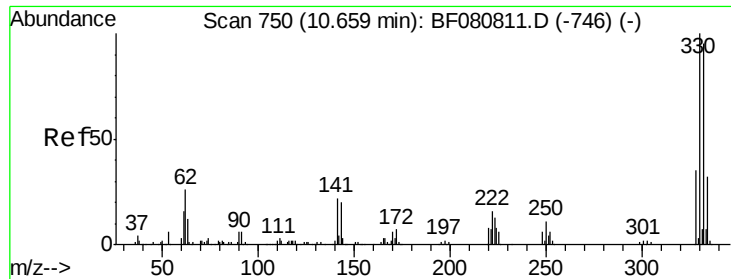


Abundance Ion 164.00 (163.70 to 164.70): BF080835.D (-655) (-)

Ion 162.00 (161.70 to 162.70): BF080835.D (-655) (-)

Ion 160.00 (159.70 to 160.70): BF080835.D (-655) (-)

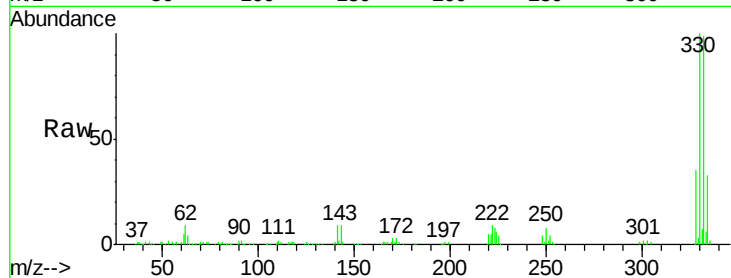




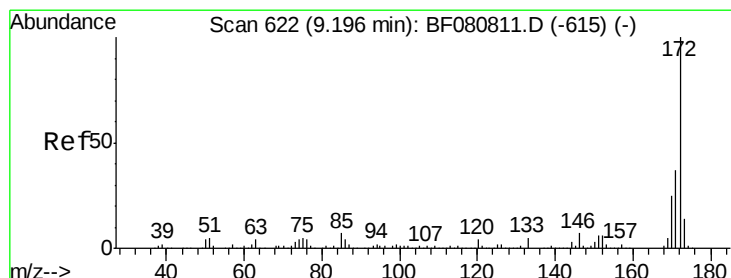
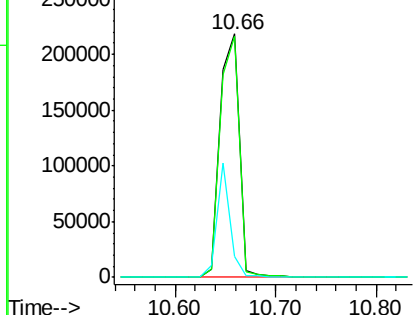
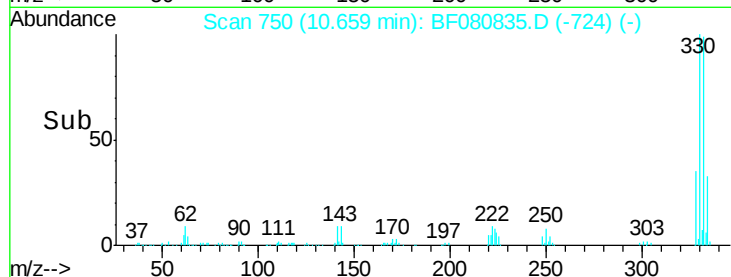
#41  
 2,4,6-Tribromophenol  
 Concen: 138.82 ng  
 RT: 10.66 min Scan# 750  
 Delta R.T. -0.00 min  
 Lab File: BF080835.D  
 Acq: 4 Aug 2015 10:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-SF-03-003-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.2  | 76.2  | 114.4 |
| 141     | 32.2  | 25.4  | 38.0  |

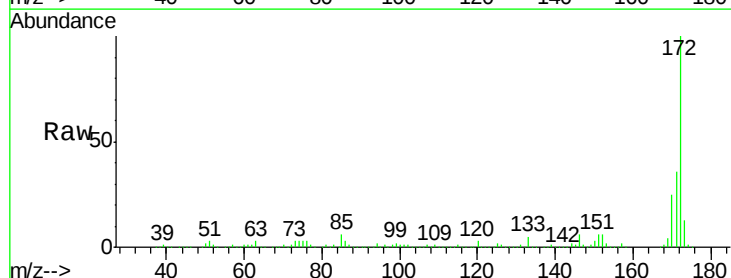


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

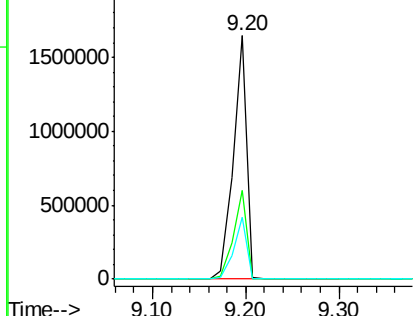
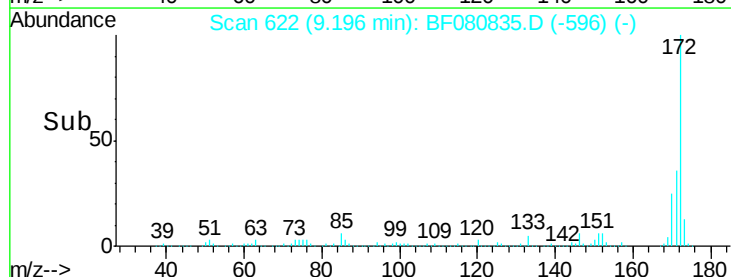


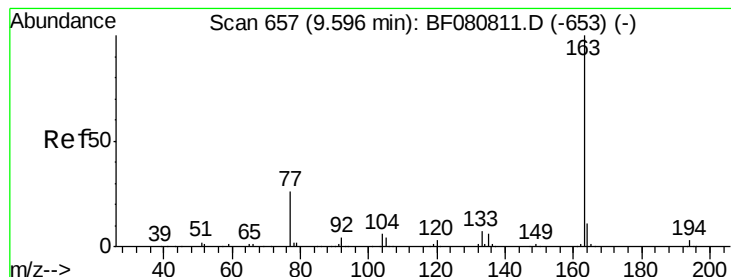
#44  
 2-Fluorobiphenyl  
 Concen: 113.58 ng  
 RT: 9.20 min Scan# 622  
 Delta R.T. -0.00 min  
 Lab File: BF080835.D  
 Acq: 4 Aug 2015 10:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 30.0  | 45.0  |
| 170     | 25.2  | 20.2  | 30.4  |



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: 13.26 ng

RT: 9.58 min Scan# 656

Delta R.T. -0.01 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

Instrument :

BNA\_F

ClientSampleId :

FK-SF-03-003-B

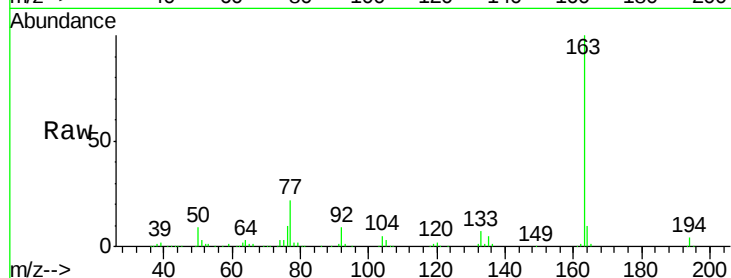
Tot Ion:163 Resp: 195133

Ion Ratio Lower Upper

163 100

194 3.6 2.7 4.1

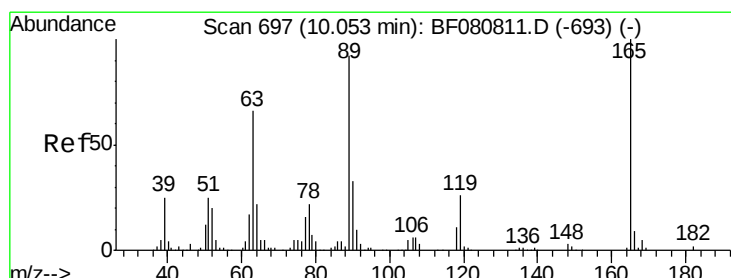
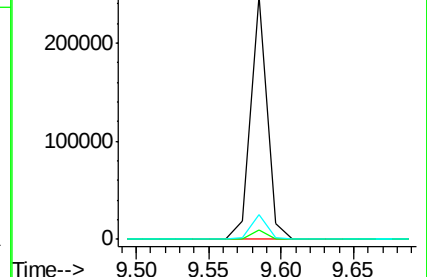
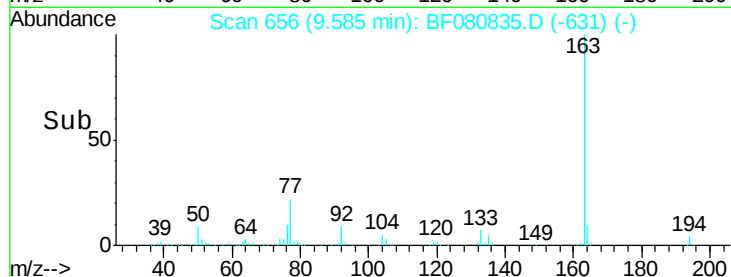
164 10.0 8.5 12.7



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



#56

2,4-Dinitrotoluene

Concen: 7.15 ng

RT: 9.87 min Scan# 681

Delta R.T. -0.18 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

Tgt Ion:165 Resp: 28661

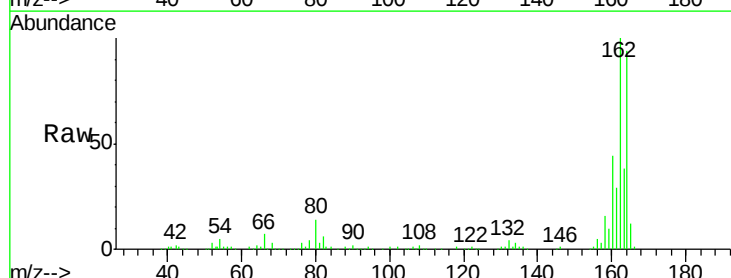
Ion Ratio Lower Upper

165 100

63 1.7 53.3 79.9#

89 1.6 73.5 110.3#

182 0.0 1.7 2.5#

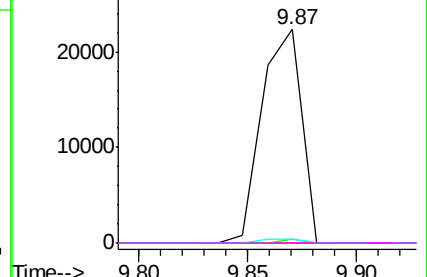
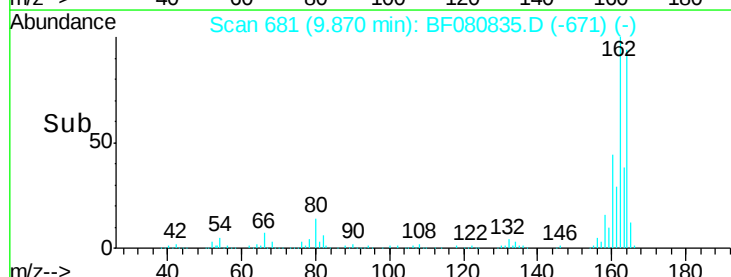


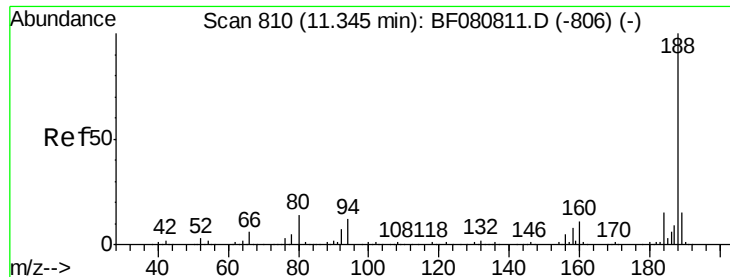
Abundance Ion 165.00 (164.70 to 165.70): E

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

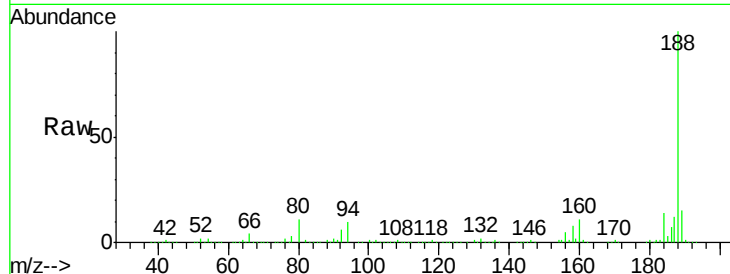




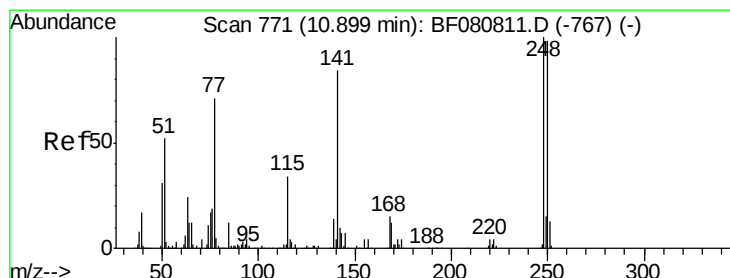
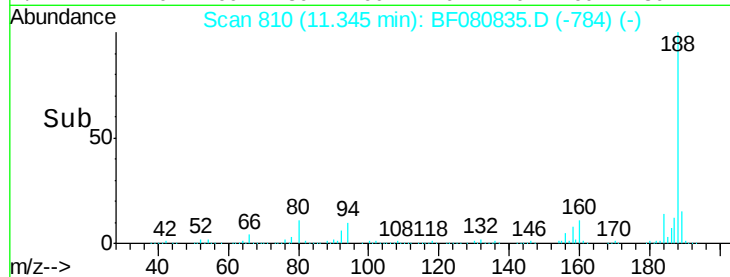
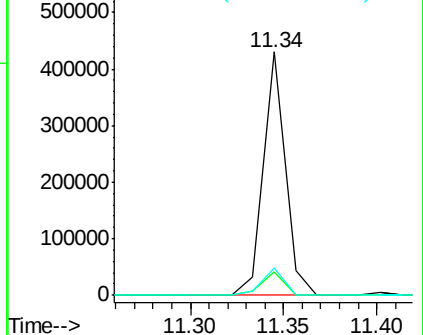
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.34 min Scan# 810  
 Delta R.T. -0.00 min  
 Lab File: BF080835.D  
 Acq: 4 Aug 2015 10:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-SF-03-003-B

Tot Ion:188 Resp: 348738  
 Ion Ratio Lower Upper  
 188 100  
 94 9.7 9.7 14.5  
 80 11.1 11.2 16.8#

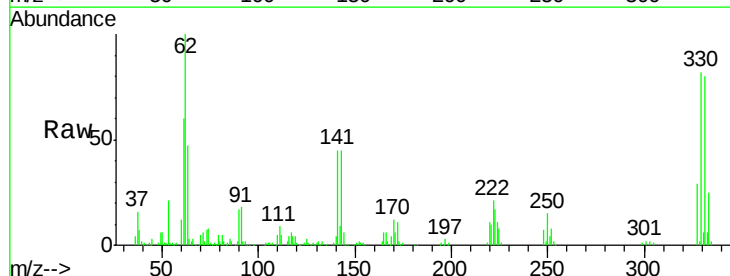


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

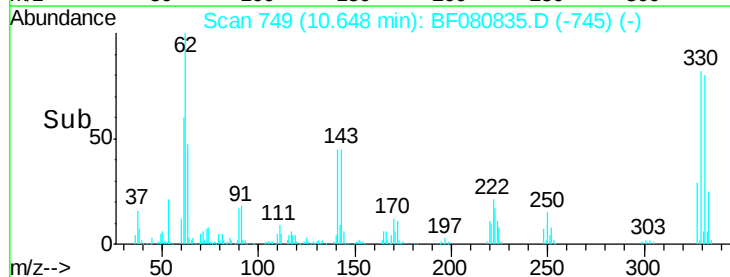
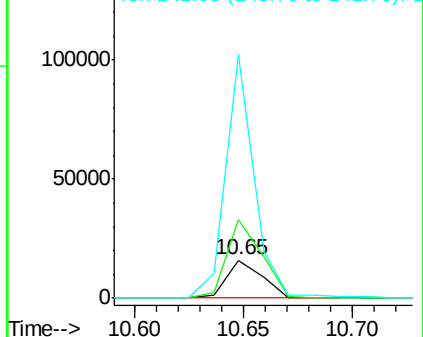


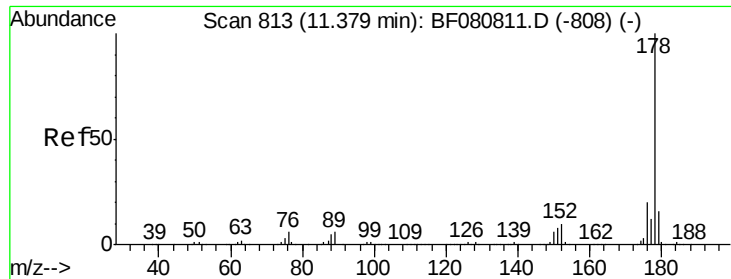
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.67 ng  
 RT: 10.65 min Scan# 749  
 Delta R.T. -0.25 min  
 Lab File: BF080835.D  
 Acq: 4 Aug 2015 10:46

Tgt Ion:248 Resp: 17888  
 Ion Ratio Lower Upper  
 248 100  
 250 206.3 78.4 117.6#  
 141 642.8 67.3 100.9#



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

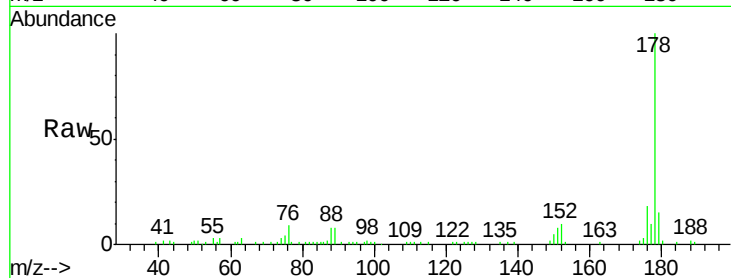




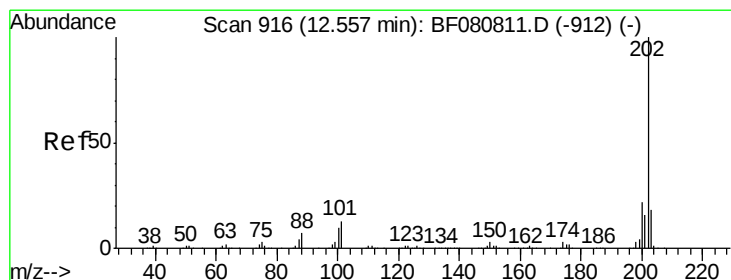
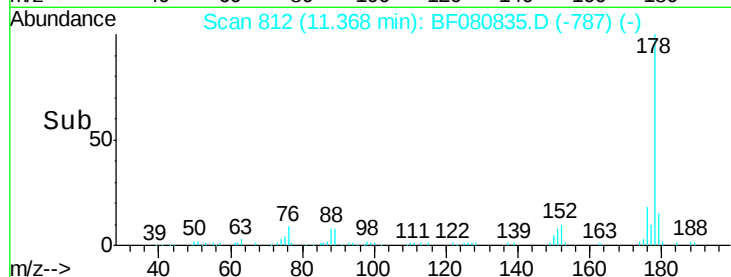
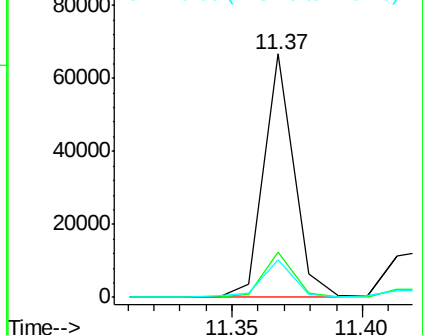
#70  
Phenanthrene  
Concen: 2.92 ng  
RT: 11.37 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF080835.D  
Acq: 4 Aug 2015 10:46

Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-B

Tot Ion:178 Resp: 53029  
Ion Ratio Lower Upper  
178 100  
176 18.3 16.3 24.5  
179 15.2 12.6 19.0

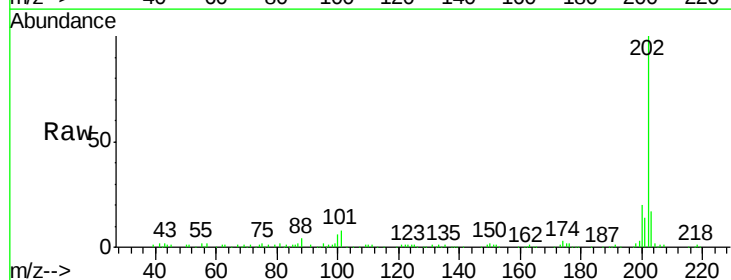


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

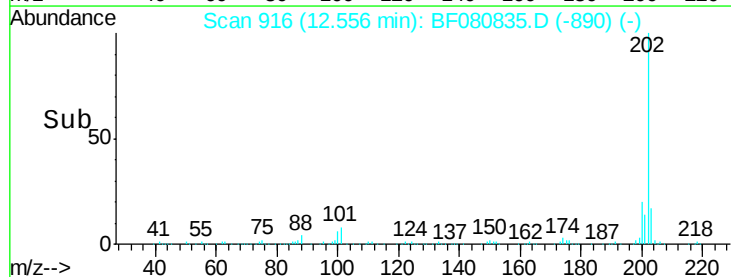
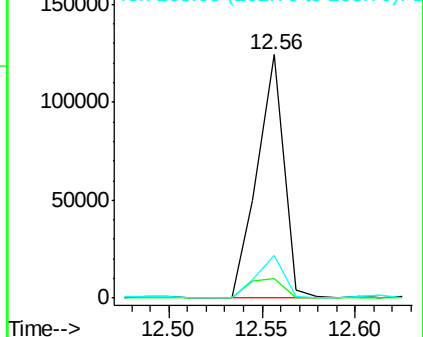


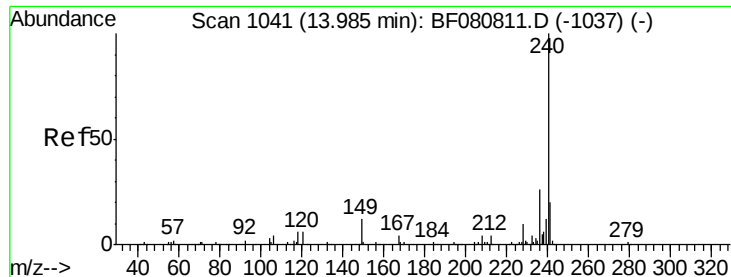
#74  
Fluoranthene  
Concen: 7.09 ng  
RT: 12.56 min Scan# 916  
Delta R.T. -0.00 min  
Lab File: BF080835.D  
Acq: 4 Aug 2015 10:46

Tgt Ion:202 Resp: 123225  
Ion Ratio Lower Upper  
202 100  
101 8.3 0.0 33.0  
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: 20.00 ng

RT: 13.97 min Scan# 1040

Delta R.T. -0.01 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

Instrument :

BNA\_F

ClientSampleId :

FK-SF-03-003-B

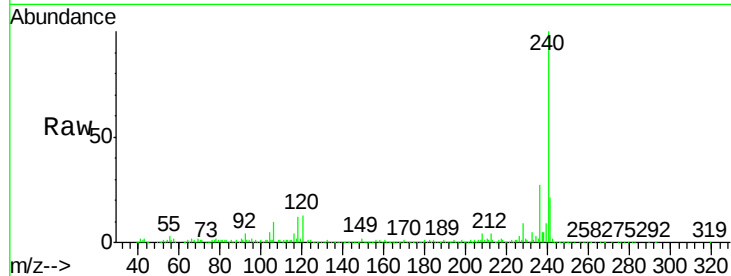
Tot Ion:240 Resp: 360946

Ion Ratio Lower Upper

240 100

120 13.5 5.0 7.4#

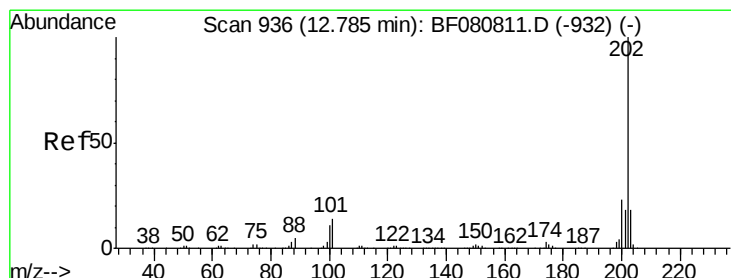
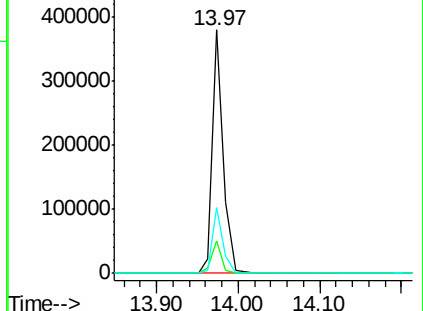
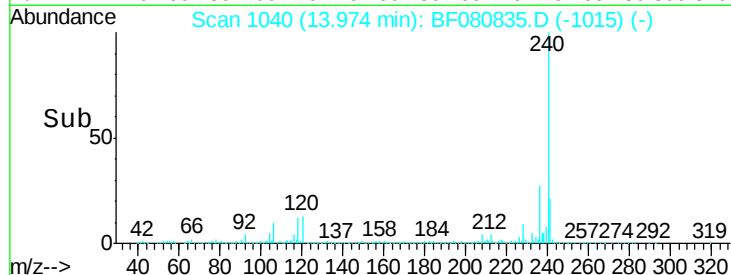
236 26.8 20.8 31.2



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: 4.71 ng

RT: 12.79 min Scan# 936

Delta R.T. -0.00 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

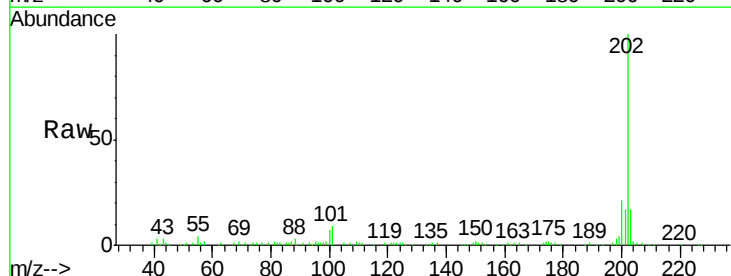
Tgt Ion:202 Resp: 125975

Ion Ratio Lower Upper

202 100

200 20.5 18.2 27.4

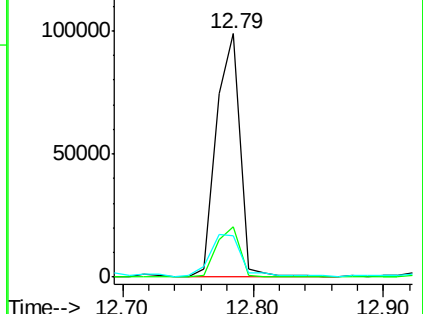
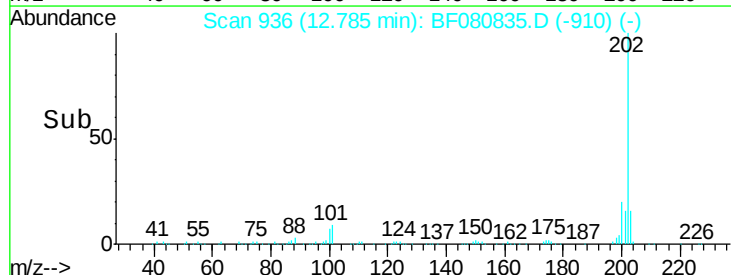
203 17.2 14.8 22.2

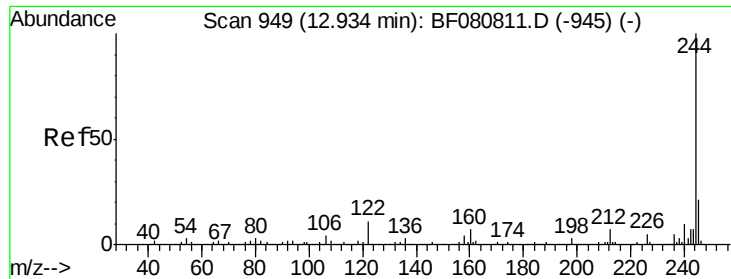


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 60.42 ng

RT: 12.93 min Scan# 949

Delta R.T. -0.00 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

Instrument :

BNA\_F

ClientSampleId :

FK-SF-03-003-B

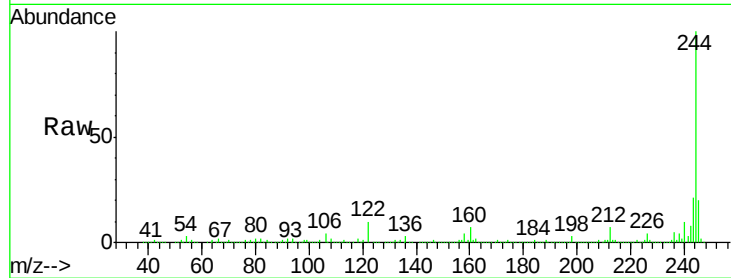
Tot Ion:244 Resp: 1094273

Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.8

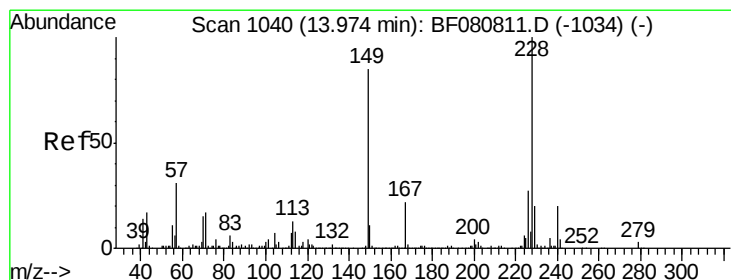
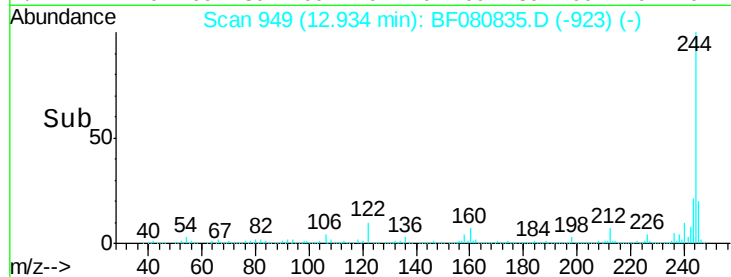
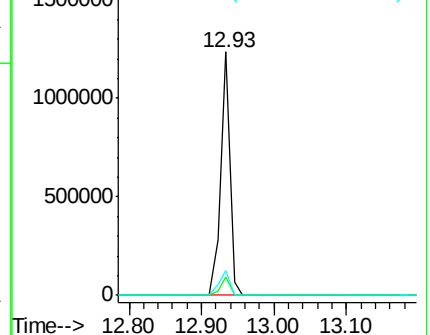
122 10.1 9.1 13.7



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



#80

Benzo(a)anthracene

Concen: 4.33 ng

RT: 13.96 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

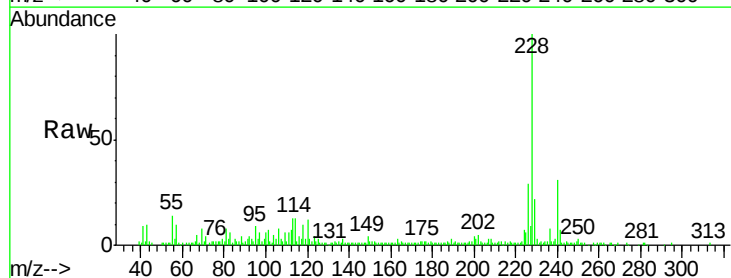
Tgt Ion:228 Resp: 89232

Ion Ratio Lower Upper

228 100

226 29.5 21.6 32.4

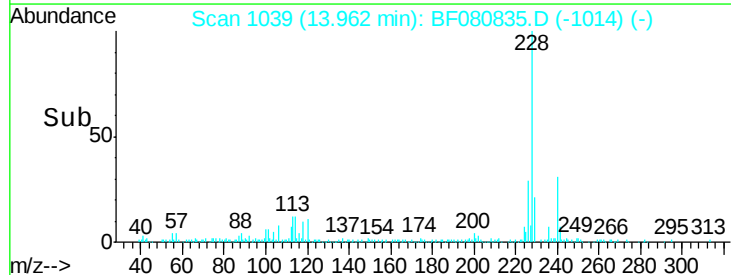
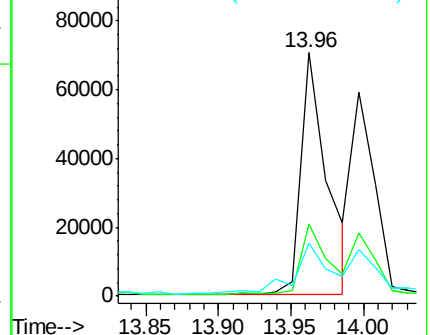
229 21.6 15.7 23.5

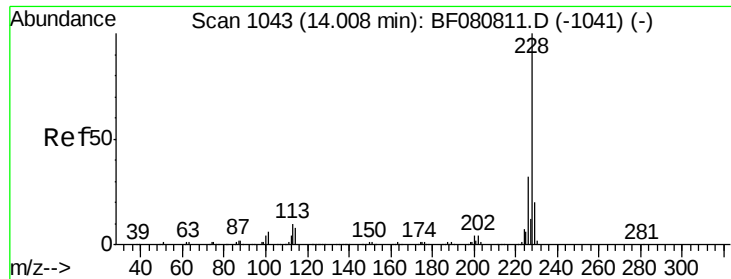


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.46 ng

RT: 13.96 min Scan# 1039

Delta R.T. -0.05 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

Instrument :

BNA\_F

ClientSampleId :

FK-SF-03-003-B

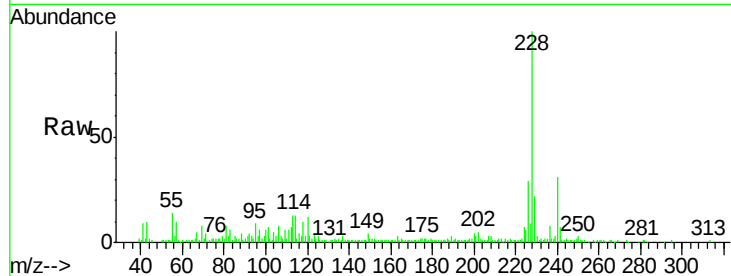
Tot Ion:228 Resp: 89232

Ion Ratio Lower Upper

228 100

226 29.5 25.0 37.6

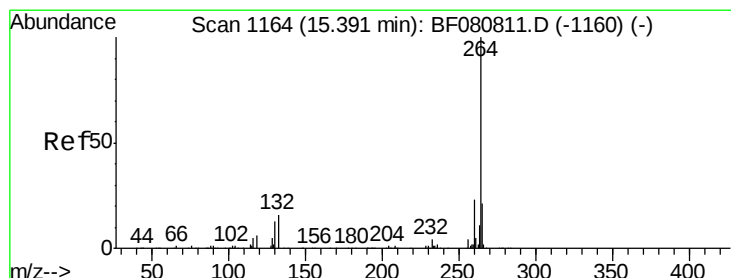
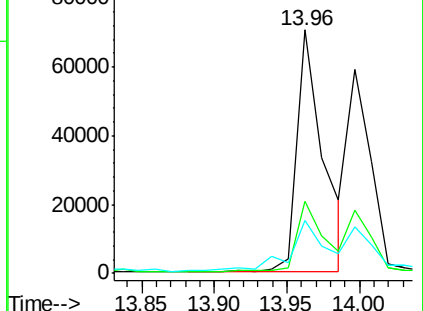
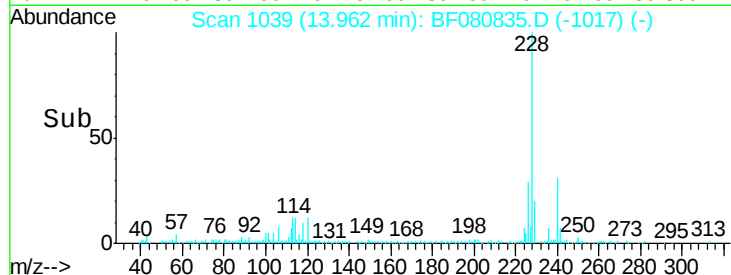
229 21.6 16.1 24.1



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.39 min Scan# 1164

Delta R.T. -0.00 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

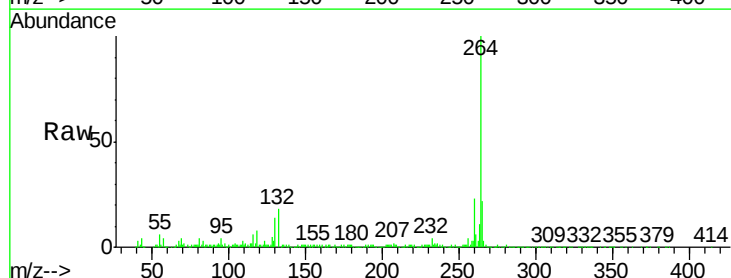
Tgt Ion:264 Resp: 331333

Ion Ratio Lower Upper

264 100

260 23.0 18.3 27.5

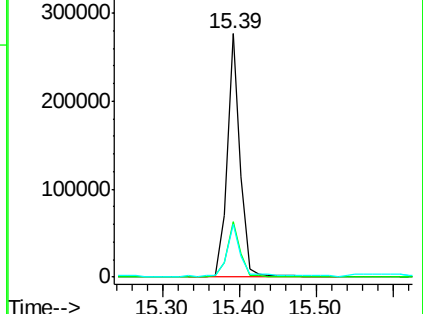
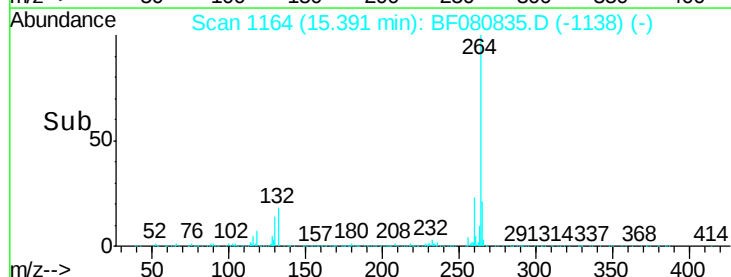
265 21.8 17.0 25.6

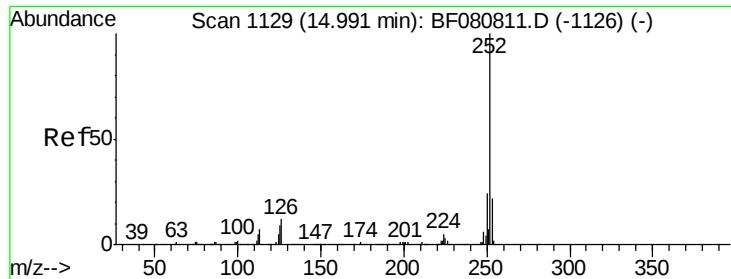


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

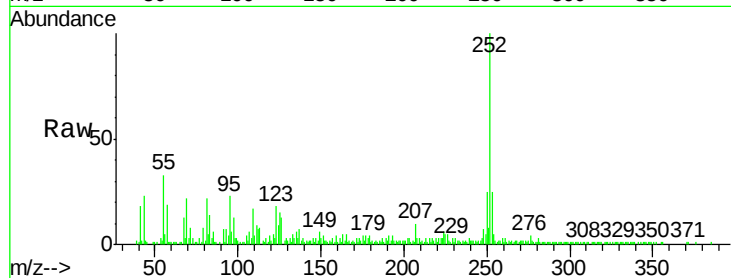




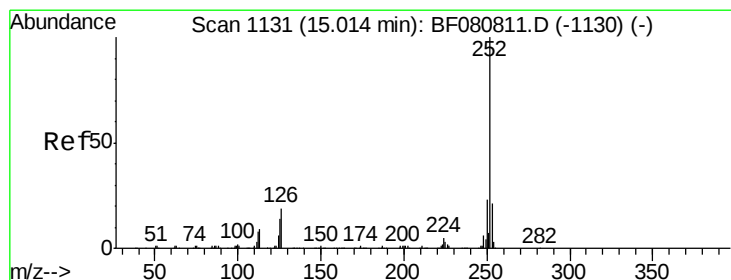
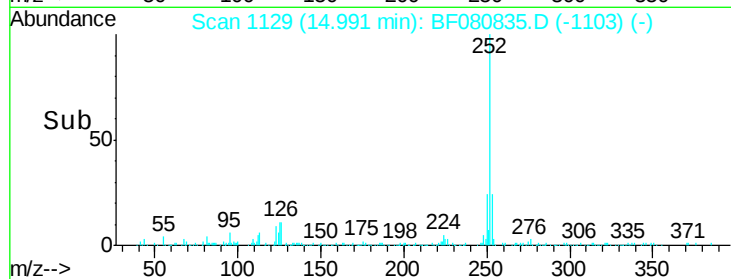
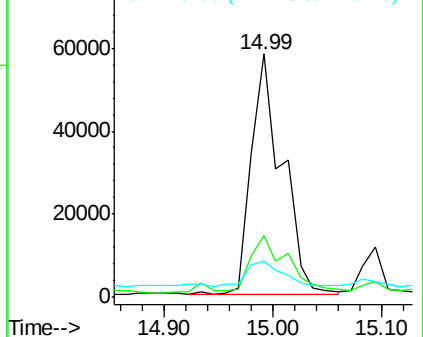
#87  
Benzo(b)fluoranthene  
Concen: 5.93 ng  
RT: 14.99 min Scan# 1129  
Delta R.T. -0.00 min  
Lab File: BF080835.D  
Acq: 4 Aug 2015 10:46

Instrument :  
BNA\_F  
ClientSampleId :  
FK-SF-03-003-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.5  | 17.5  | 26.3  |
| 125     | 15.1  | 7.4   | 11.0  |

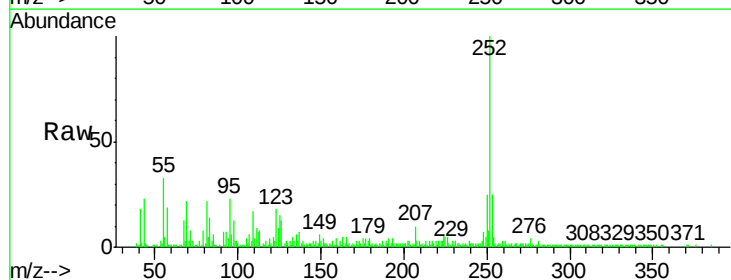


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

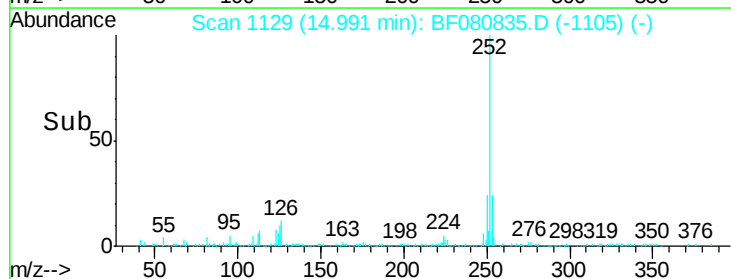
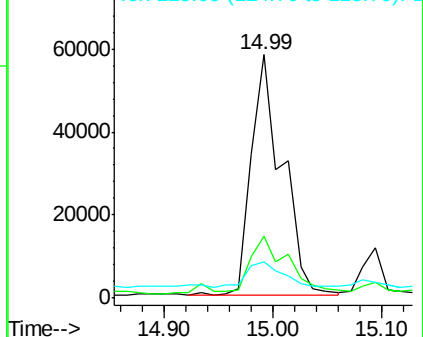


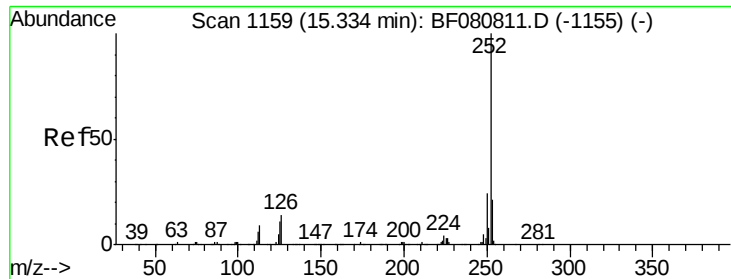
#88  
Benzo(k)fluoranthene  
Concen: 6.80 ng  
RT: 14.99 min Scan# 1129  
Delta R.T. -0.02 min  
Lab File: BF080835.D  
Acq: 4 Aug 2015 10:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.5  | 17.4  | 26.0  |
| 125     | 15.1  | 9.9   | 14.9  |



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: 3.59 ng

RT: 15.33 min Scan# 1159

Delta R.T. -0.00 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

Instrument :

BNA\_F

ClientSampleId :

FK-SF-03-003-B

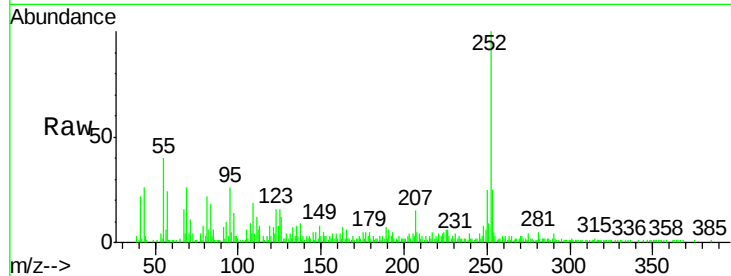
Tot Ion:252 Resp: 59300

Ion Ratio Lower Upper

252 100

253 24.5 17.2 25.8

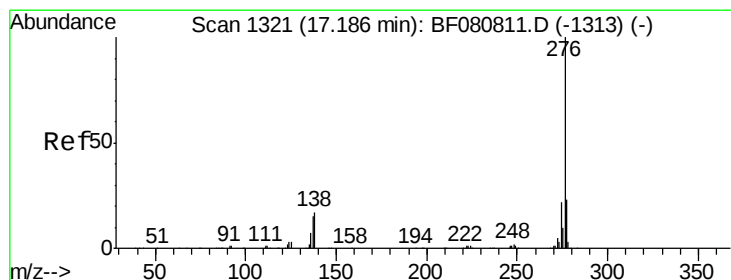
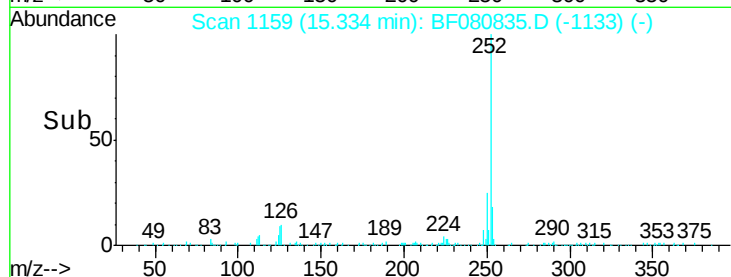
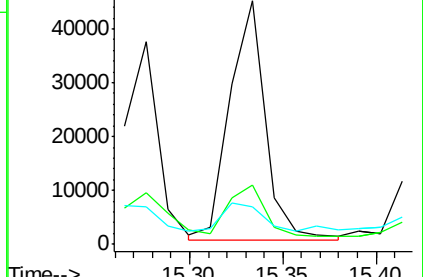
125 15.5 8.9 13.3#



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(g,h,i)perylene

Concen: 2.01 ng

RT: 17.17 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF080835.D

Acq: 4 Aug 2015 10:46

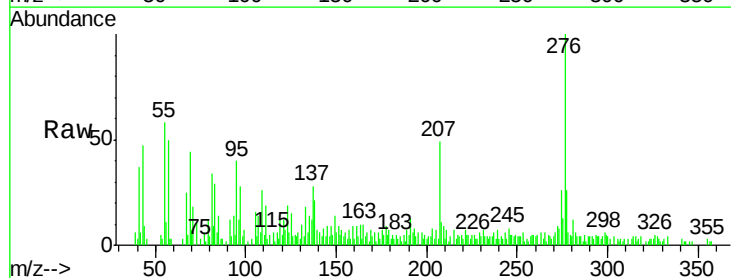
Tgt Ion:276 Resp: 33621

Ion Ratio Lower Upper

276 100

277 26.4 18.6 27.8

138 21.5 13.3 19.9#



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

