

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020516\  
 Data File : BF084889.D  
 Acq On : 6 Feb 2016 4:50  
 Operator : SJ/IZ  
 Sample : H1329-06  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

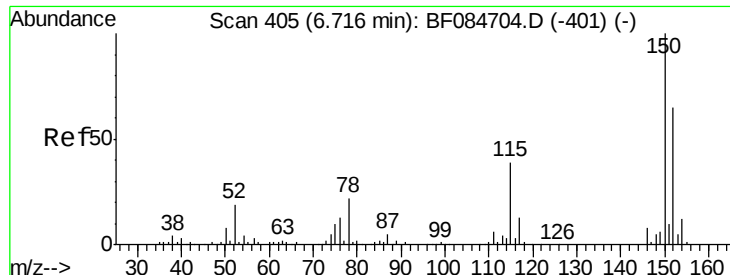
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B006(21.5-23.5)

Quant Time: Feb 07 23:55:43 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 03 14:16:01 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.66  | 152  | 175106   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.95  | 136  | 689723   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.70  | 164  | 298787   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.17 | 188  | 510664   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12               | 13.80 | 240  | 364378   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 15.17 | 264  | 319645   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.25  | 112  | 1297905  | 115.45 | ng    | -0.02    |
| 7) Phenol-d6                   | 6.32  | 99   | 1493231  | 107.14 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.23  | 82   | 933247   | 76.22  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.49 | 330  | 391595   | 125.65 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 9.02  | 172  | 1422424  | 77.97  | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.76 | 244  | 1136666  | 70.69  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.23  | 70   | 125815   | 14.40  | ng    | # 71     |
| 49) Dimethylphthalate          | 9.42  | 163  | 235787   | 10.36  | ng    | # 91     |
| 56) 2,4-Dinitrotoluene         | 9.70  | 165  | 38447    | 6.06   | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.49 | 248  | 26345    | 4.67   | ng    | # 1      |
| 70) Phenanthrene               | 11.20 | 178  | 83581    | 2.95   | ng    | 98       |
| 74) Fluoranthene               | 12.38 | 202  | 184441   | 6.43   | ng    | 91       |
| 77) Pyrene                     | 12.60 | 202  | 172344   | 6.18   | ng    | 98       |
| 80) Benzo(a)anthracene         | 13.79 | 228  | 108658   | 4.80   | ng    | 95       |
| 82) Chrysene                   | 13.83 | 228  | 72203    | 3.29   | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.44 | 276  | 41171    | 2.39   | ng    | # 93     |
| 87) Benzo(b)fluoranthene       | 14.80 | 252  | 134139   | 6.25   | ng    | # 95     |
| 88) Benzo(k)fluoranthene       | 14.80 | 252  | 134139   | 7.55   | ng    | 99       |
| 89) Benzo(a)pyrene             | 15.12 | 252  | 74399    | 4.07   | ng    | # 94     |
| 91) Benzo(g,h,i)perylene       | 16.82 | 276  | 46310    | 2.98   | ng    | 98       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 400

Delta R.T. -0.02 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

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BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

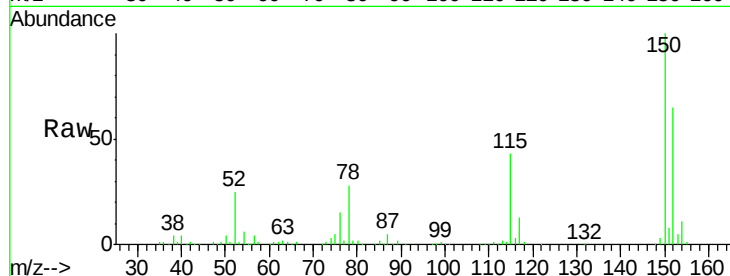
Tgt Ion:152 Resp: 175106

Ion Ratio Lower Upper

152 100

150 153.4 123.0 184.4

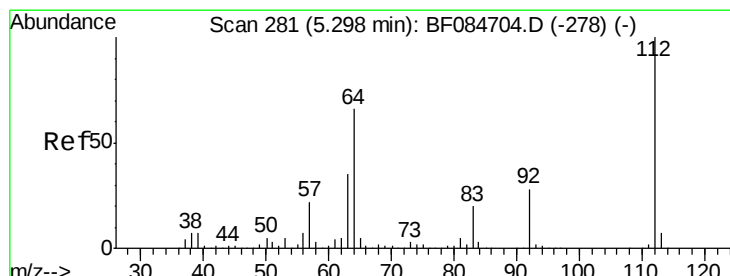
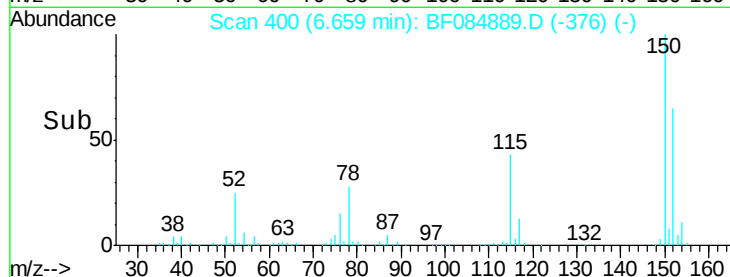
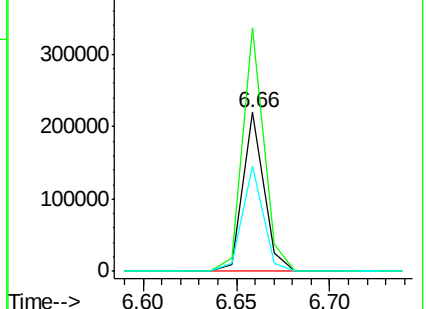
115 66.4 51.4 77.2



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: 115.45 ng

RT: 5.25 min Scan# 277

Delta R.T. -0.02 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

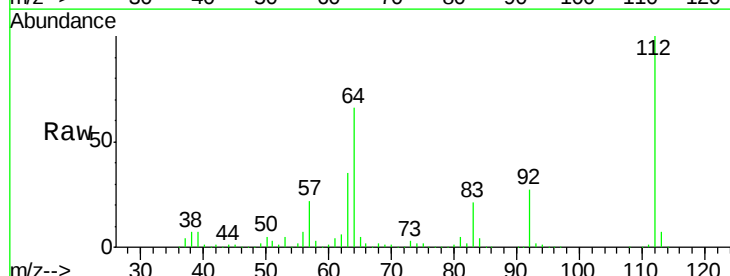
Tgt Ion:112 Resp: 1297905

Ion Ratio Lower Upper

112 100

64 66.4 36.6 55.0#

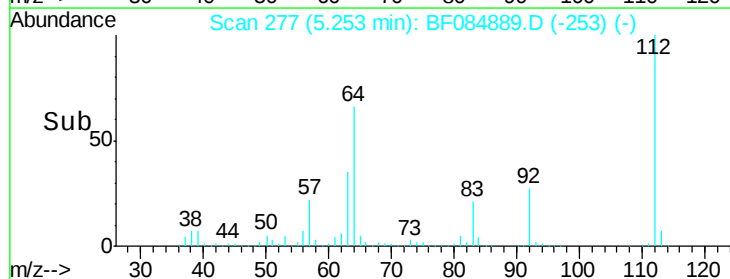
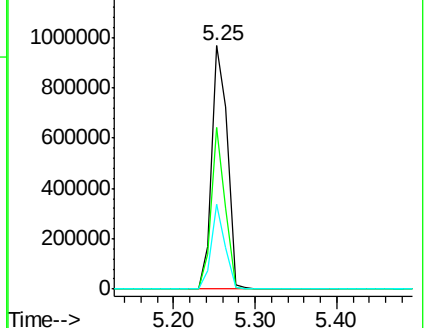
63 34.9 19.4 29.0#

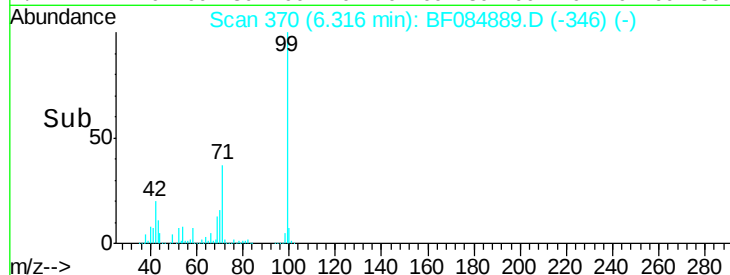
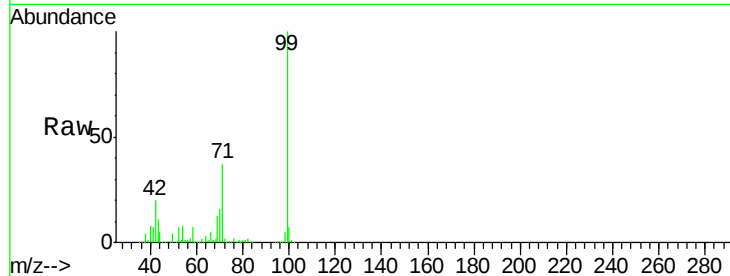
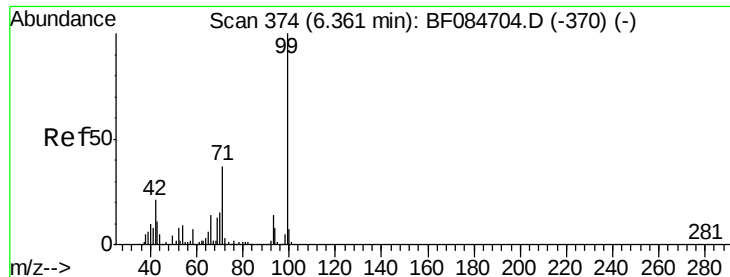


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 107.14 ng

RT: 6.32 min Scan# 370

Delta R.T. -0.02 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

Instrument :

BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

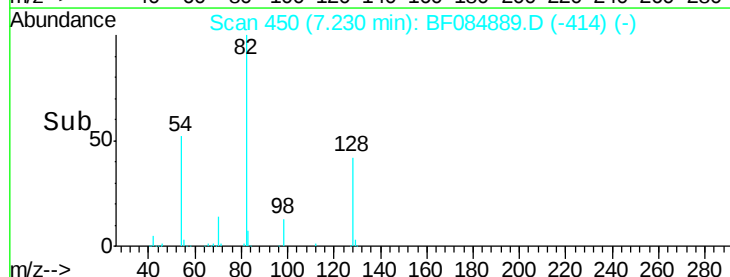
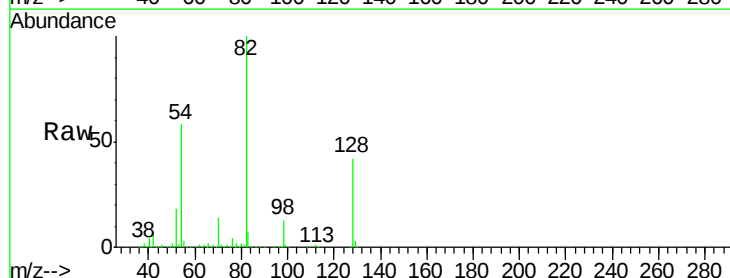
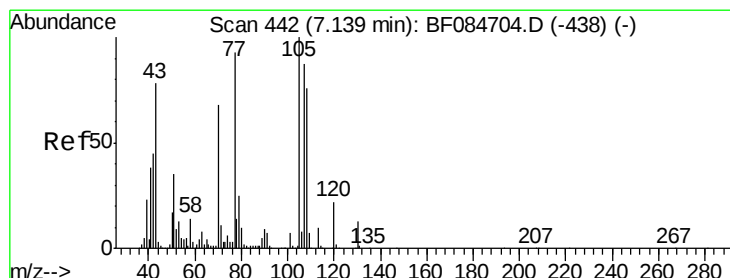
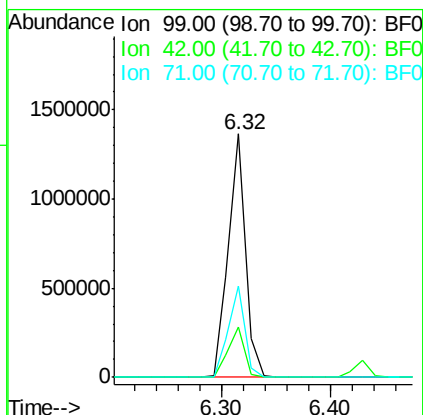
Tgt Ion: 99 Resp: 1493231

Ion Ratio Lower Upper

99 100

42 20.4 12.8 19.2#

71 37.3 30.9 46.3



#19

n-Nitroso-di-n-propylamine

Concen: 14.40 ng

RT: 7.23 min Scan# 450

Delta R.T. 0.11 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

Tgt Ion: 70 Resp: 125815

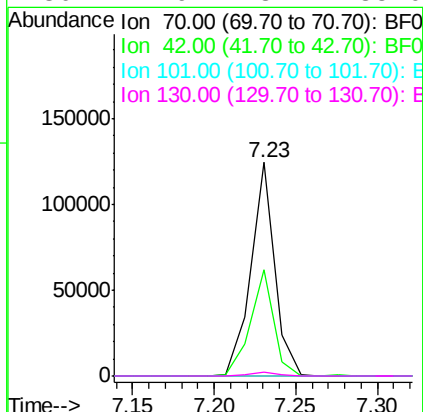
Ion Ratio Lower Upper

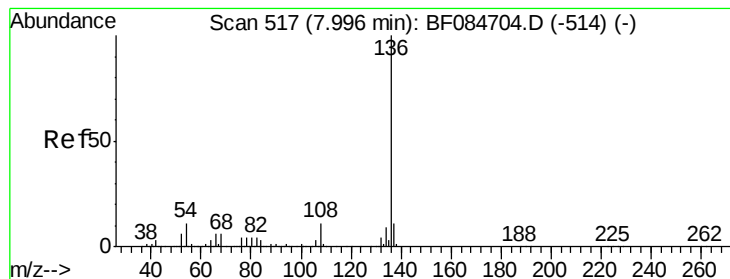
70 100

42 49.6 33.3 49.9

101 0.0 9.3 13.9#

130 1.9 23.4 35.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 513

Delta R.T. -0.02 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

Instrument :

BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

Tgt Ion: 136 Resp: 689723

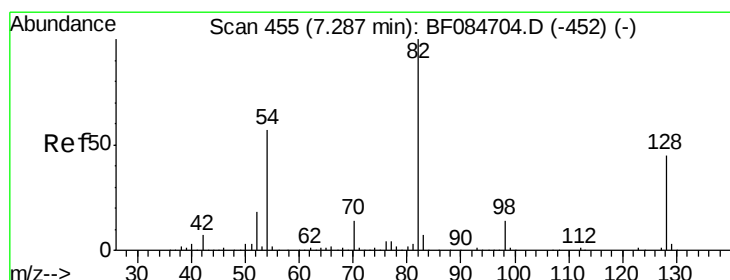
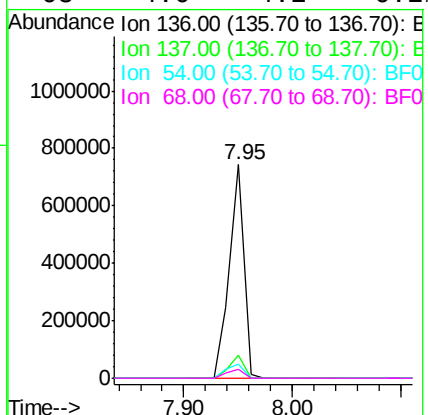
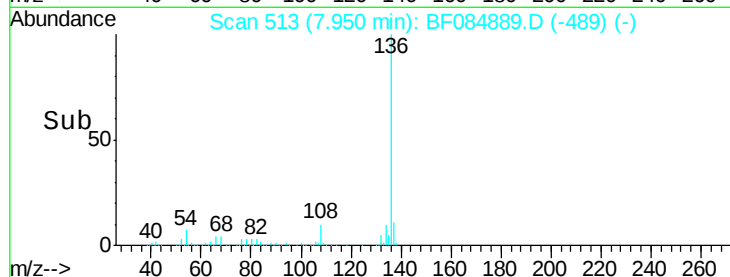
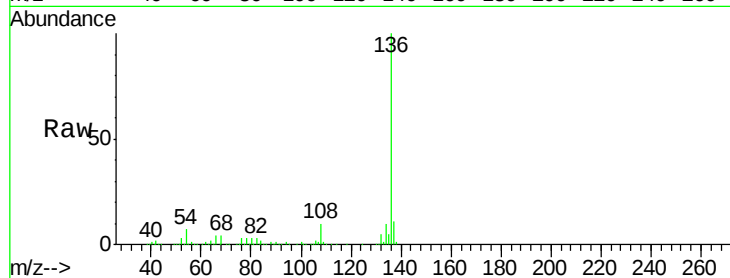
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 6.8 5.8 8.8

68 4.0 4.2 6.2#



#23

Nitrobenzene-d5

Concen: 76.22 ng

RT: 7.23 min Scan# 450

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

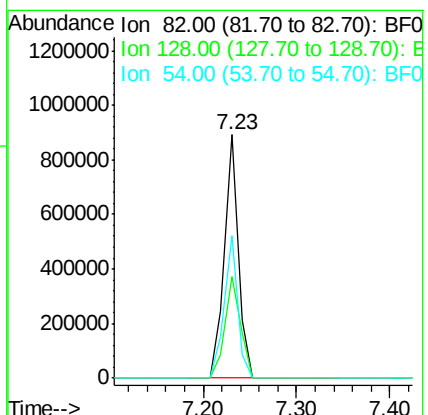
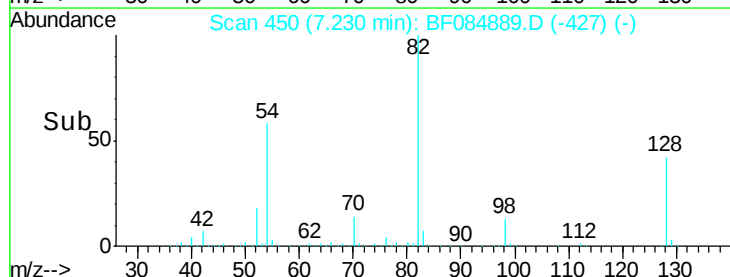
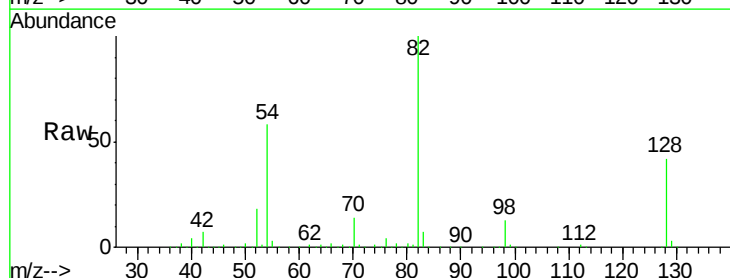
Tgt Ion: 82 Resp: 933247

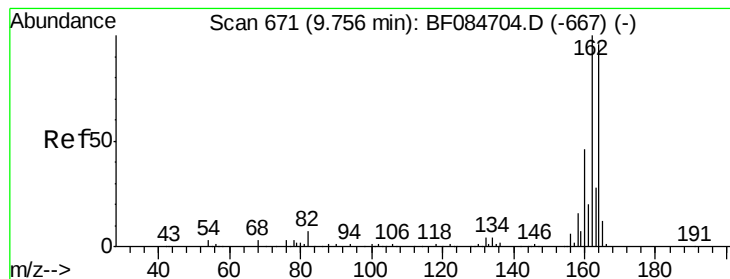
Ion Ratio Lower Upper

82 100

128 41.8 34.6 51.8

54 58.3 38.4 57.6#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.70 min Scan# 666

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

Instrument :

BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

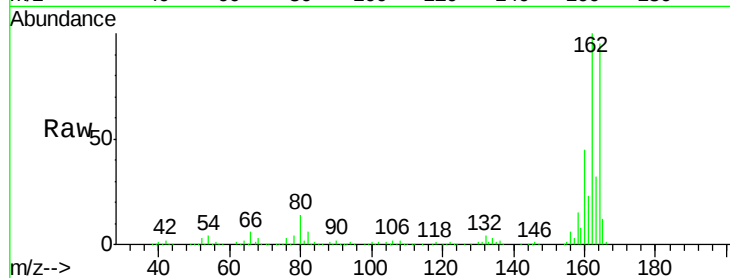
Tgt Ion:164 Resp: 298787

Ion Ratio Lower Upper

164 100

162 105.8 85.1 127.7

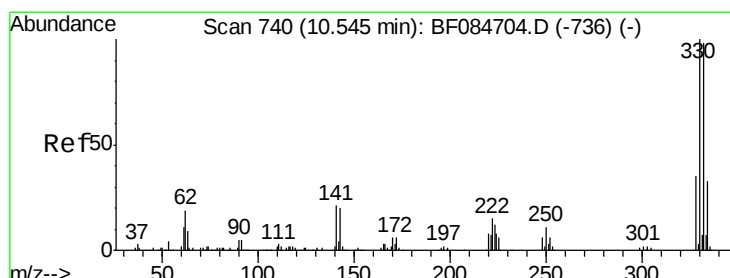
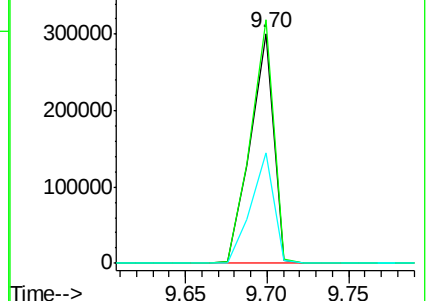
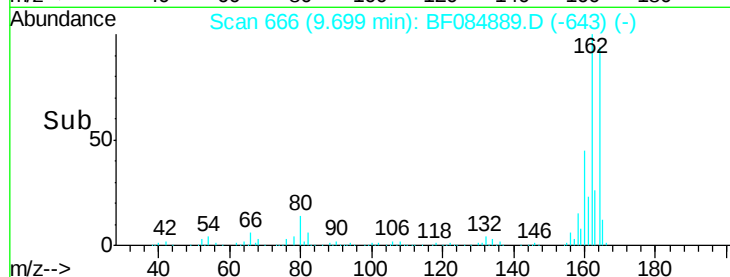
160 47.7 37.5 56.3



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: 125.65 ng

RT: 10.49 min Scan# 735

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

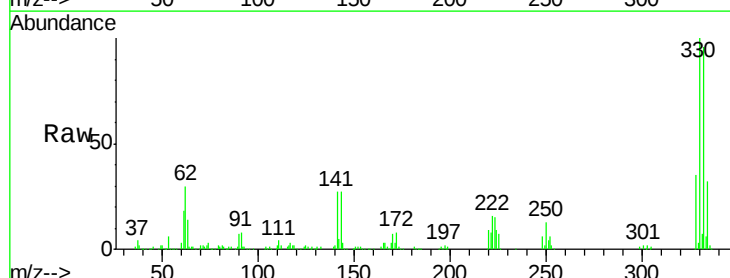
Tgt Ion:330 Resp: 391595

Ion Ratio Lower Upper

330 100

332 96.4 76.6 114.8

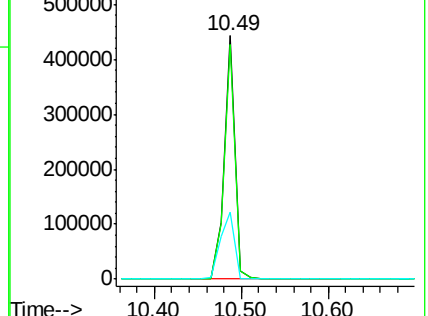
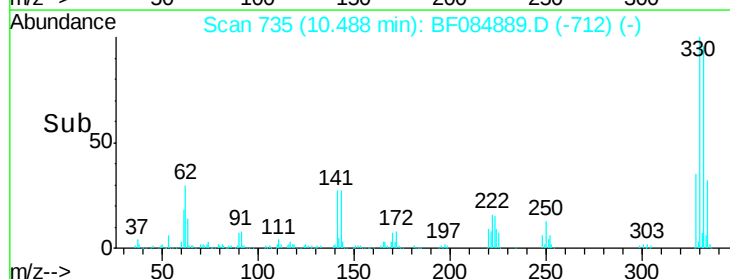
141 35.9 27.8 41.6

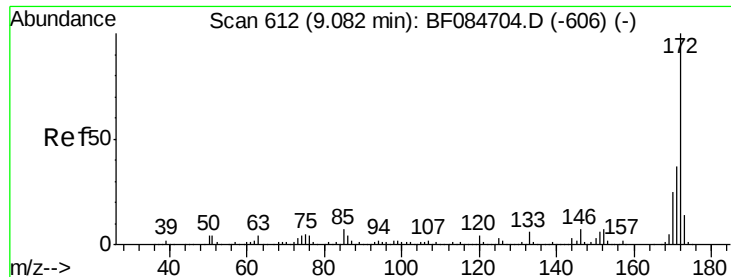


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

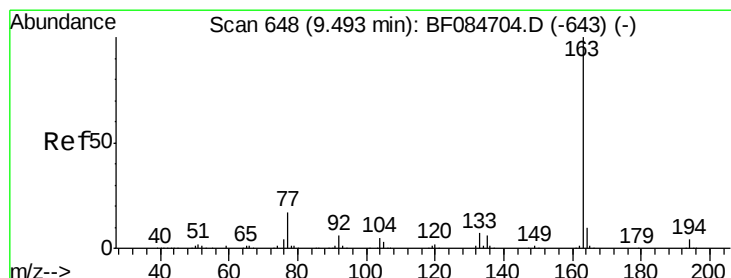
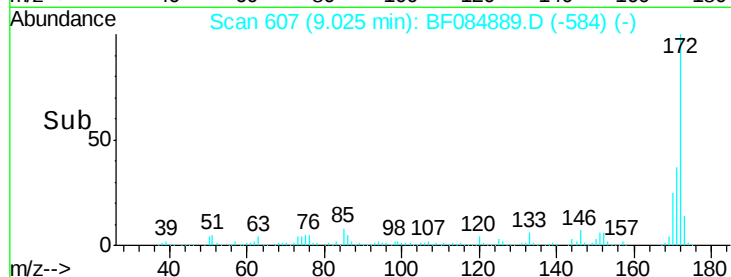
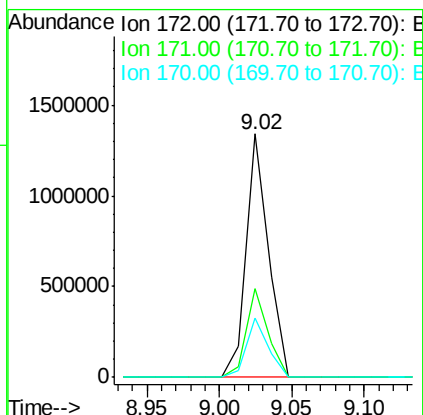
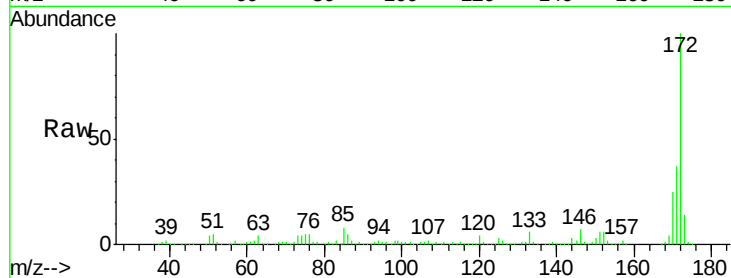




#44  
2-Fluorobiphenyl  
Concen: 77.97 ng  
RT: 9.02 min Scan# 607  
Delta R.T. -0.03 min  
Lab File: BF084889.D  
Acq: 6 Feb 2016 4:50

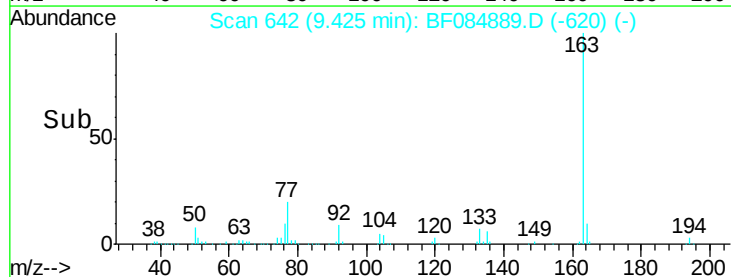
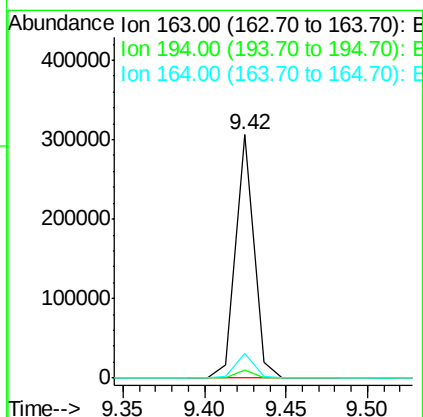
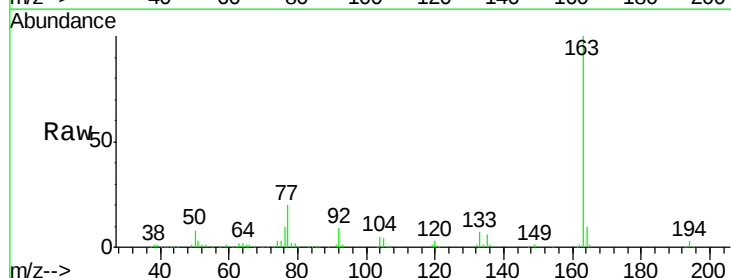
Instrument :  
BNA\_F  
ClientSampleId :  
S4-B006(21.5-23.5)

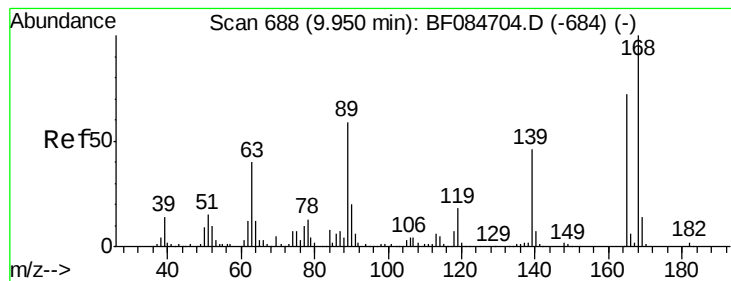
Tgt Ion:172 Resp: 1422424  
Ion Ratio Lower Upper  
172 100  
171 36.6 28.9 43.3  
170 24.6 18.6 27.8



#49  
Dimethylphthalate  
Concen: 10.36 ng  
RT: 9.42 min Scan# 642  
Delta R.T. -0.05 min  
Lab File: BF084889.D  
Acq: 6 Feb 2016 4:50

Tgt Ion:163 Resp: 235787  
Ion Ratio Lower Upper  
163 100  
194 3.2 8.0 12.0#  
164 10.0 8.0 12.0





#56

2,4-Dinitrotoluene

Concen: 6.06 ng

RT: 9.70 min Scan# 666

Delta R.T. -0.23 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

Instrument :

BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

Tgt Ion:165 Resp: 38447

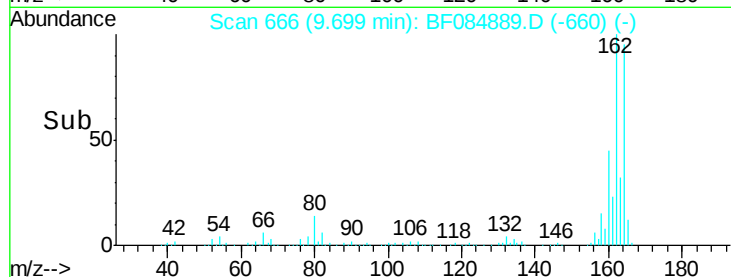
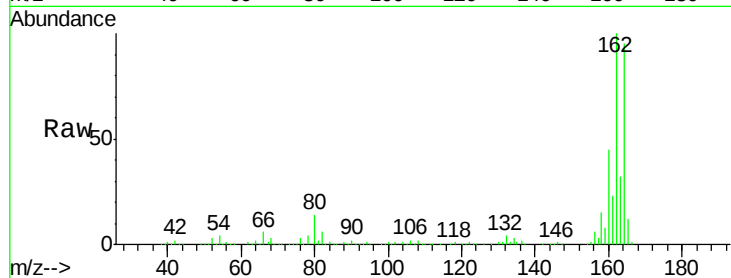
Ion Ratio Lower Upper

165 100

63 1.6 36.7 55.1#

89 1.3 61.9 92.9#

182 0.0 2.0 3.0#

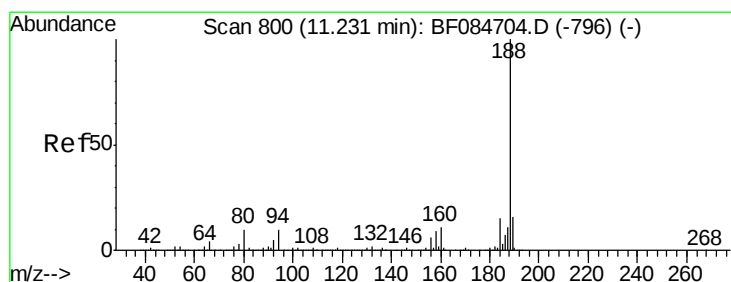
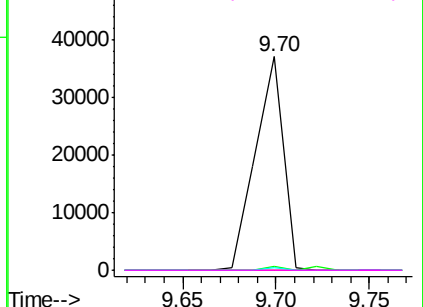


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.17 min Scan# 795

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

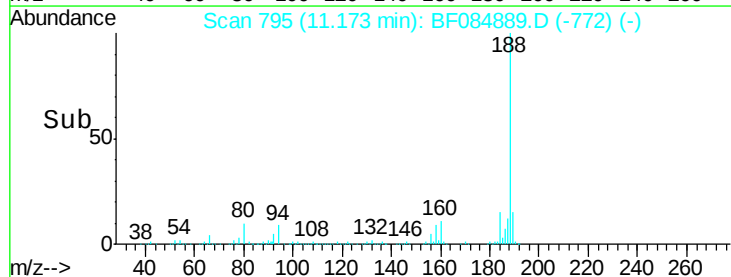
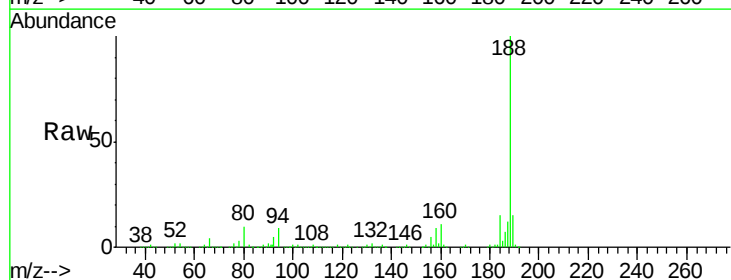
Tgt Ion:188 Resp: 510664

Ion Ratio Lower Upper

188 100

94 9.2 9.0 13.4

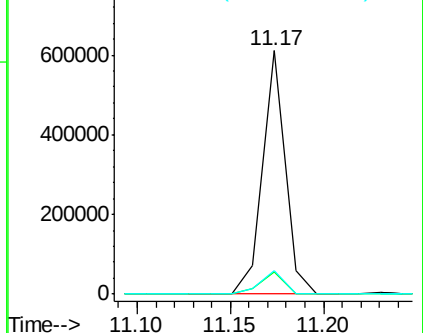
80 9.9 9.6 14.4

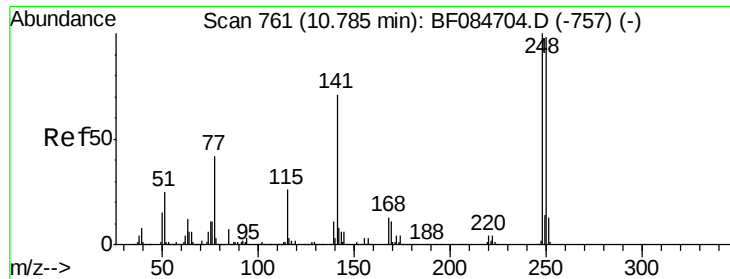


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

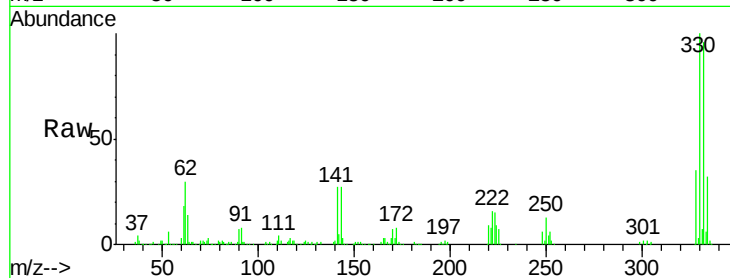




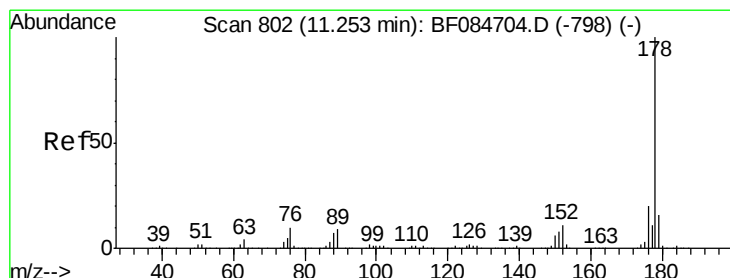
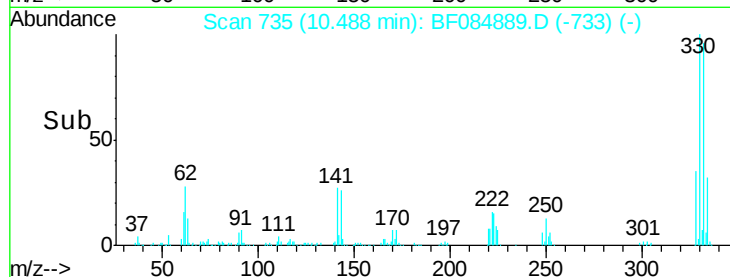
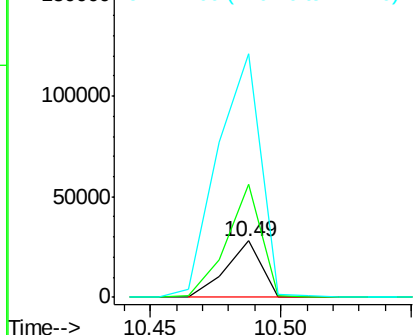
#66  
4-Bromophenyl-phenylether  
Concen: 4.67 ng  
RT: 10.49 min Scan# 735  
Delta R.T. -0.27 min  
Lab File: BF084889.D  
Acq: 6 Feb 2016 4:50

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B006(21.5-23.5)

Tgt Ion:248 Resp: 26345  
Ion Ratio Lower Upper  
248 100  
250 201.4 78.4 117.6#  
141 433.3 44.0 66.0#

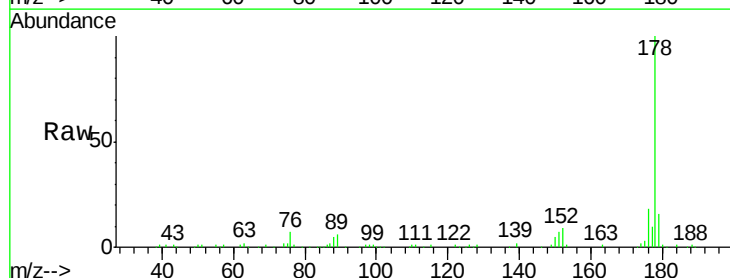


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

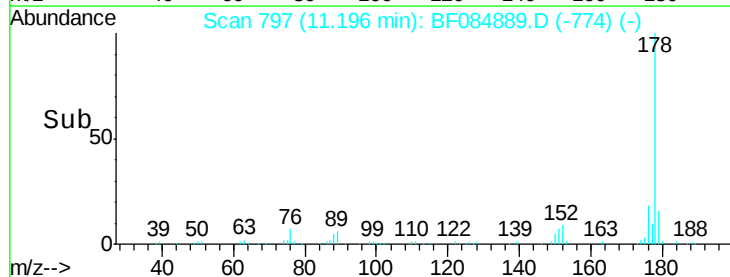
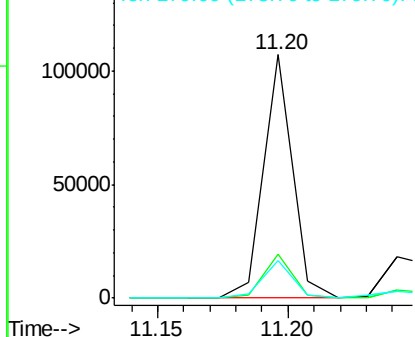


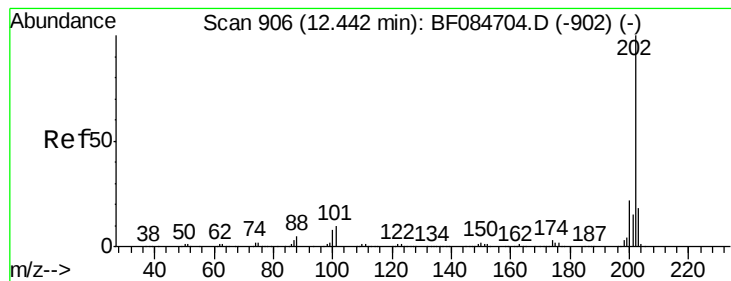
#70  
Phenanthrene  
Concen: 2.95 ng  
RT: 11.20 min Scan# 797  
Delta R.T. -0.03 min  
Lab File: BF084889.D  
Acq: 6 Feb 2016 4:50

Tgt Ion:178 Resp: 83581  
Ion Ratio Lower Upper  
178 100  
176 18.2 15.3 22.9  
179 15.6 12.0 18.0



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: 6.43 ng

RT: 12.38 min Scan# 901

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

Instrument :

BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

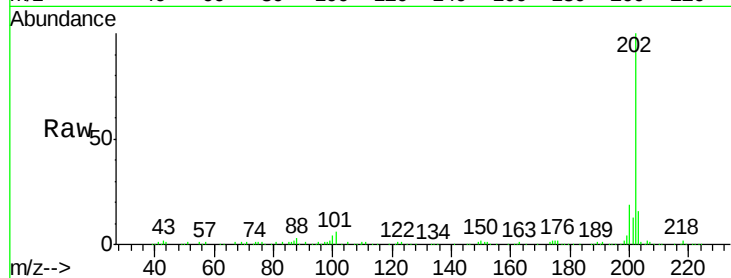
Tgt Ion:202 Resp: 184441

Ion Ratio Lower Upper

202 100

101 6.4 0.0 32.8

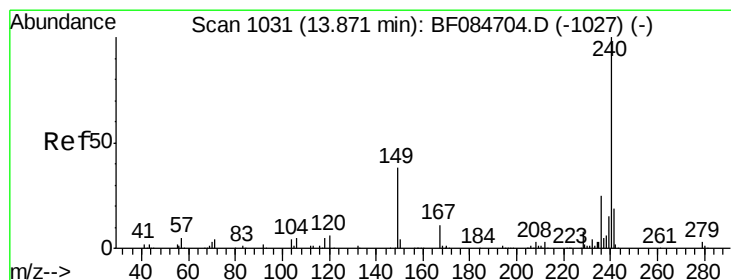
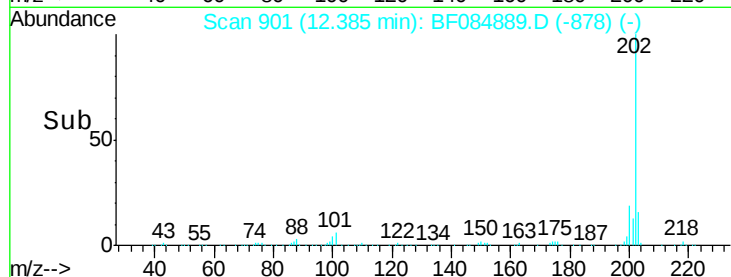
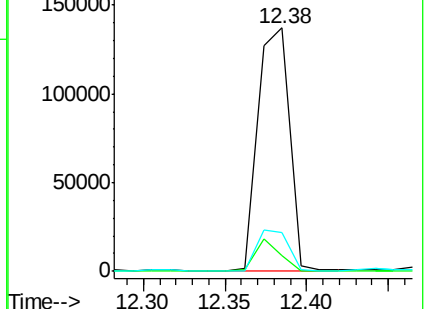
203 15.9 0.0 37.9



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: 13.80 min Scan# 1025

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

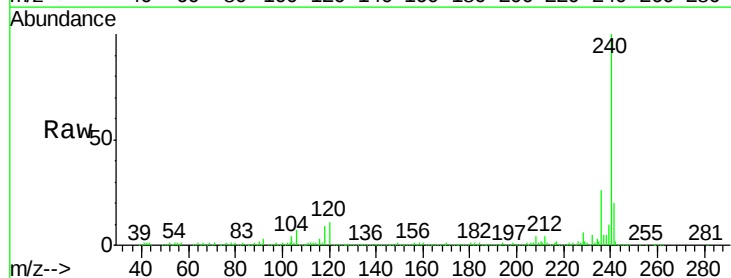
Tgt Ion:240 Resp: 364378

Ion Ratio Lower Upper

240 100

120 10.9 9.5 14.3

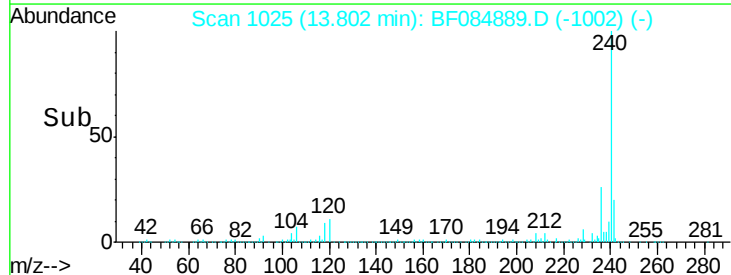
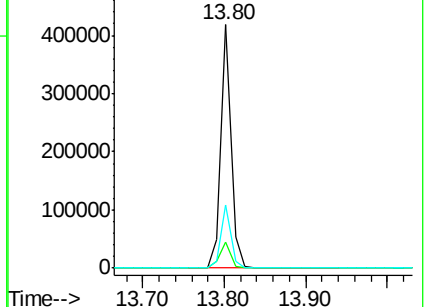
236 25.9 20.6 31.0

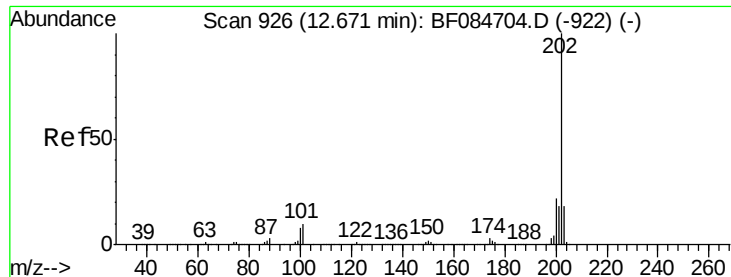


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 6.18 ng

RT: 12.60 min Scan# 920

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

Instrument :

BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

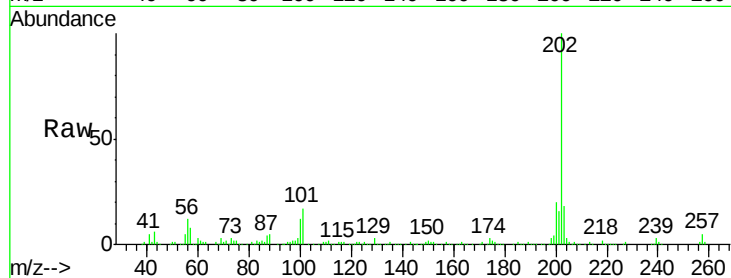
Tgt Ion:202 Resp: 172344

Ion Ratio Lower Upper

202 100

200 19.8 17.2 25.8

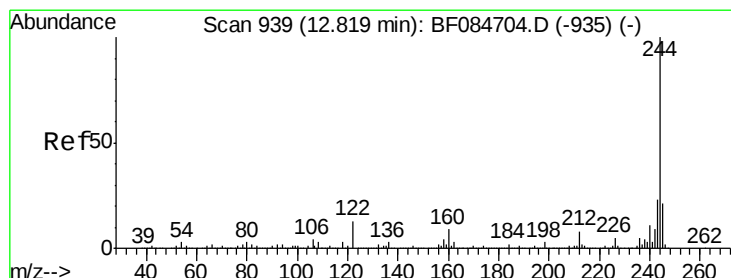
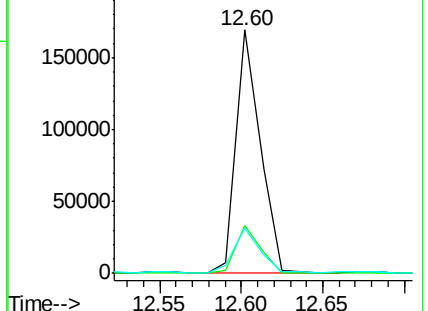
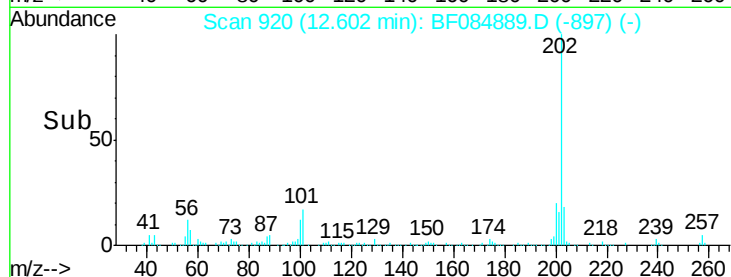
203 18.3 14.3 21.5



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: 70.69 ng

RT: 12.76 min Scan# 934

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

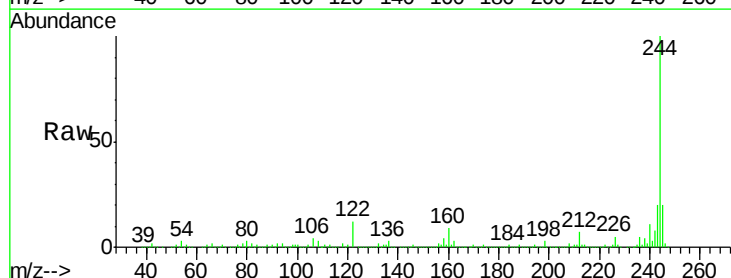
Tgt Ion:244 Resp: 1136666

Ion Ratio Lower Upper

244 100

212 7.4 5.7 8.5

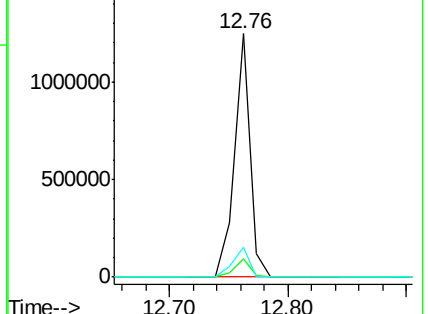
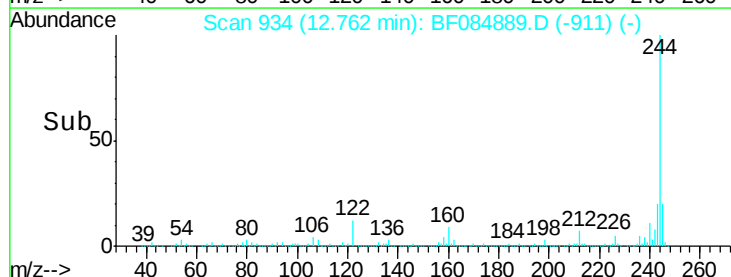
122 12.4 7.4 11.0#

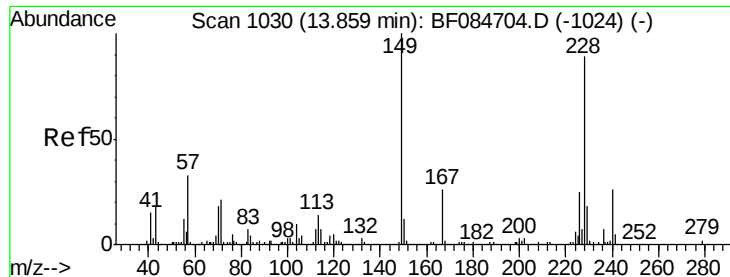


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 4.80 ng

RT: 13.79 min Scan# 1024

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

Instrument :

BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

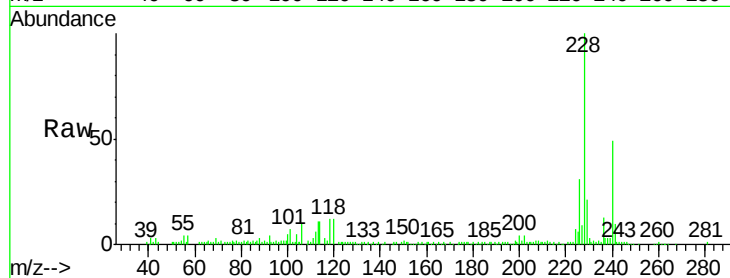
Tgt Ion:228 Resp: 108658

Ion Ratio Lower Upper

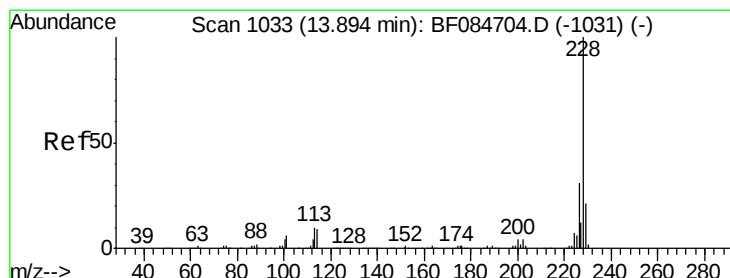
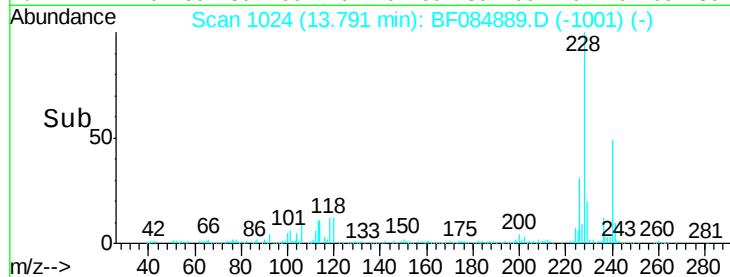
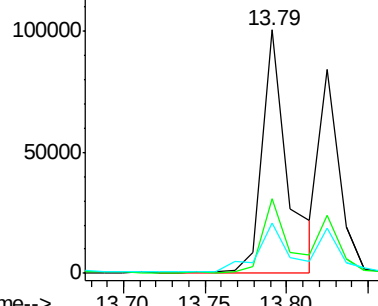
228 100

226 30.7 21.8 32.6

229 20.6 15.8 23.8



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: 3.29 ng

RT: 13.83 min Scan# 1027

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

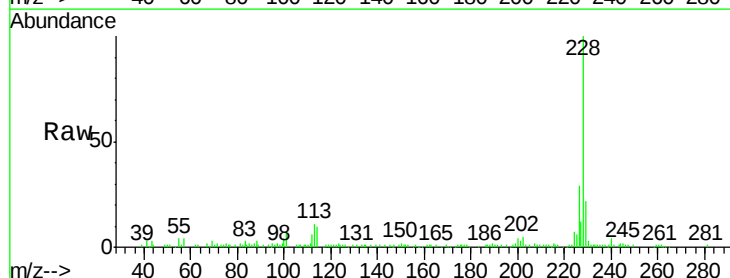
Tgt Ion:228 Resp: 72203

Ion Ratio Lower Upper

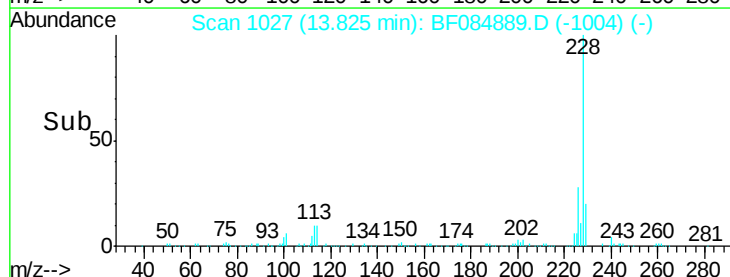
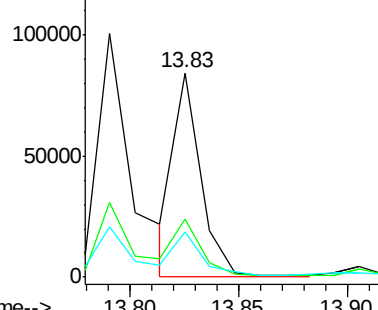
228 100

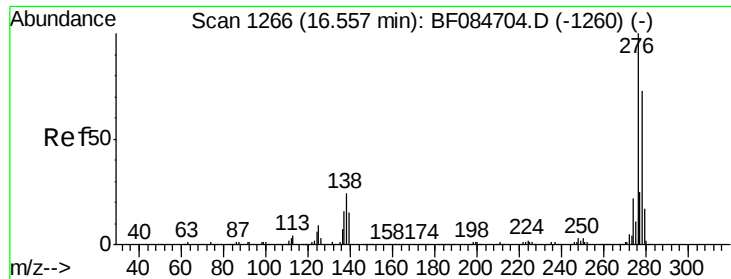
226 28.7 24.3 36.5

229 22.2 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





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.39 ng

RT: 16.44 min Scan# 1256

Delta R.T. -0.06 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

Instrument :

BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

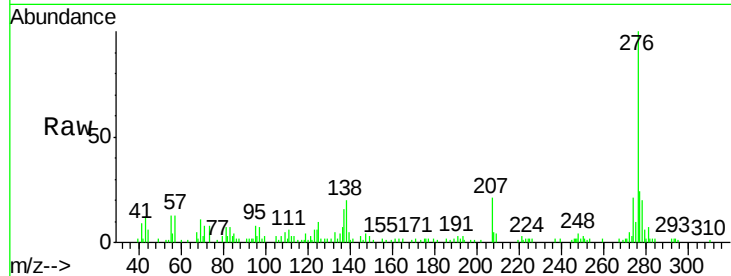
Tgt Ion:276 Resp: 41171

Ion Ratio Lower Upper

276 100

138 24.2 20.6 30.8

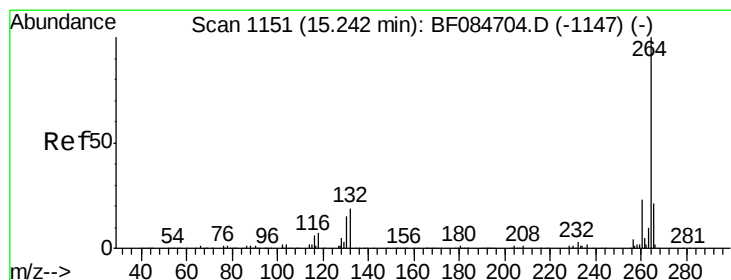
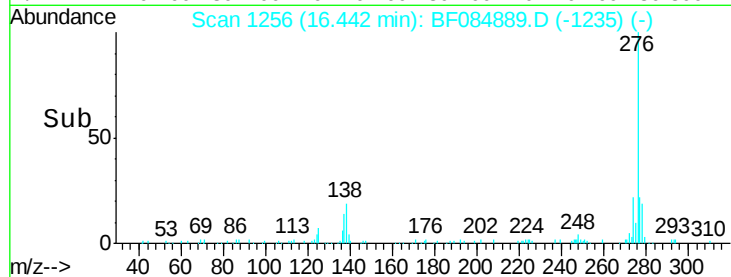
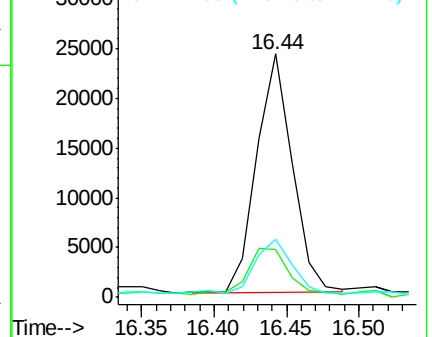
277 30.8 20.1 30.1#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.17 min Scan# 1145

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

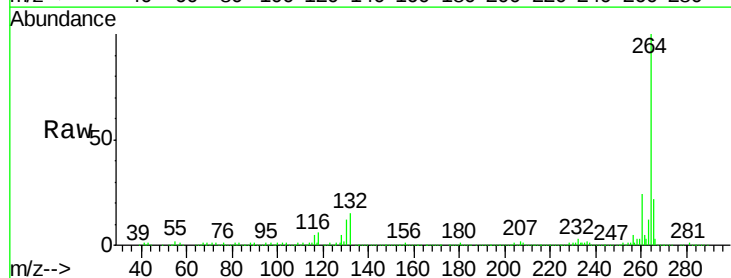
Tgt Ion:264 Resp: 319645

Ion Ratio Lower Upper

264 100

260 23.6 19.4 29.2

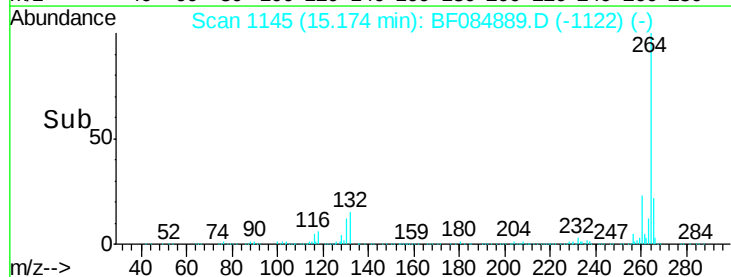
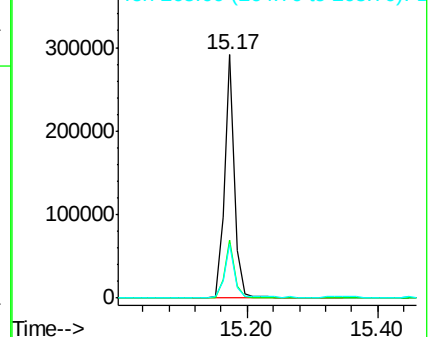
265 22.3 17.8 26.6

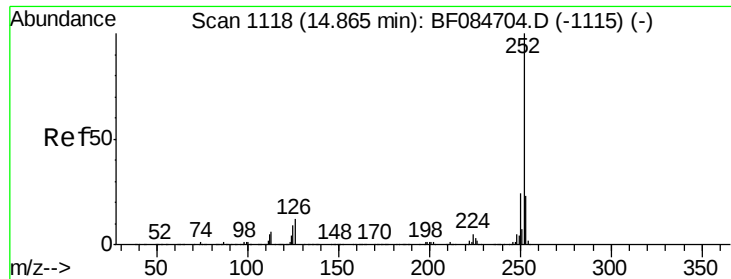


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 6.25 ng

RT: 14.80 min Scan# 1112

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

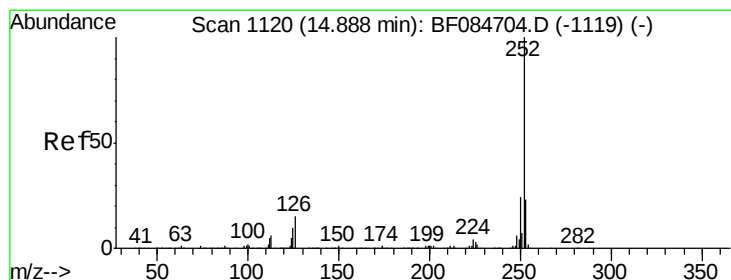
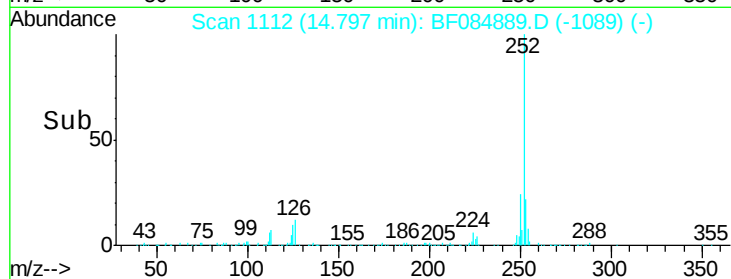
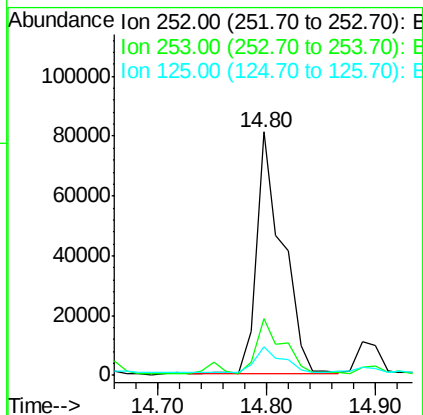
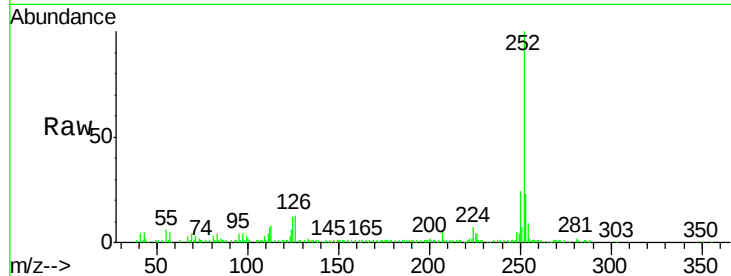
Instrument :

BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 134139 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 23.1  | 17.3  | 25.9   |
| 125      | 11.8  | 6.5   | 9.7#   |



#88

Benzo(k)fluoranthene

Concen: 7.55 ng

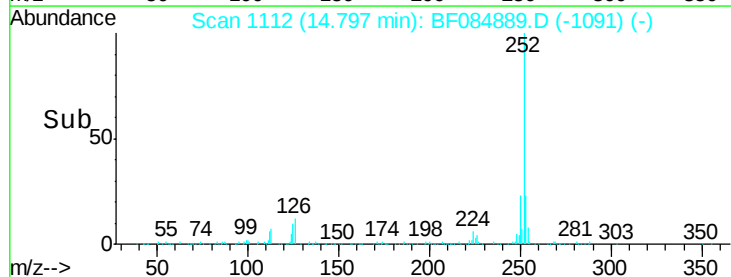
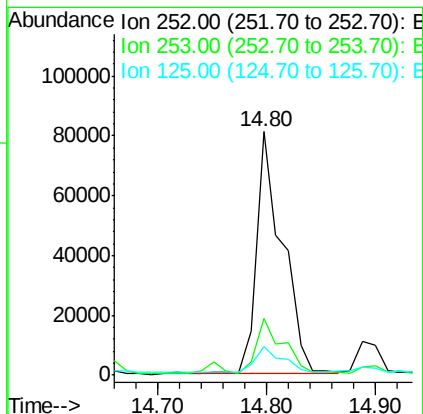
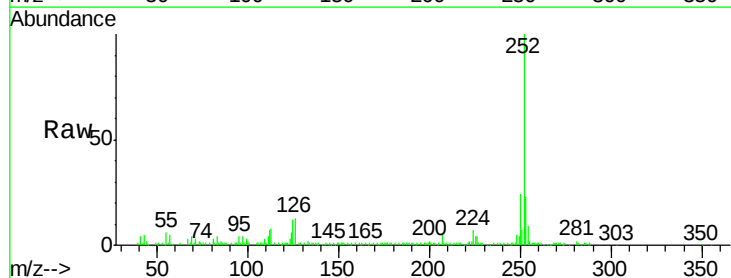
RT: 14.80 min Scan# 1112

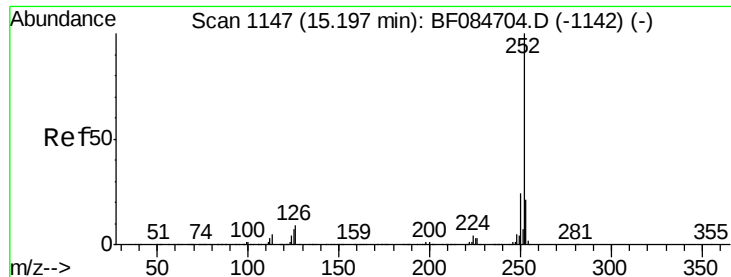
Delta R.T. -0.06 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 134139 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 23.1  | 18.1  | 27.1   |
| 125      | 11.8  | 9.0   | 13.6   |





#89

Benzo(a)pyrene

Concen: 4.07 ng

RT: 15.12 min Scan# 1140

Delta R.T. -0.03 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

Instrument :

BNA\_F

ClientSampleId :

S4-B006(21.5-23.5)

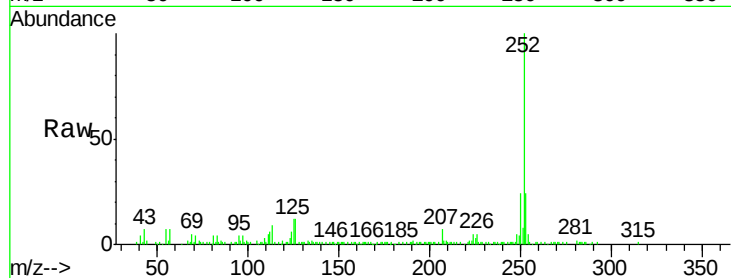
Tgt Ion:252 Resp: 74399

Ion Ratio Lower Upper

252 100

253 23.6 17.3 25.9

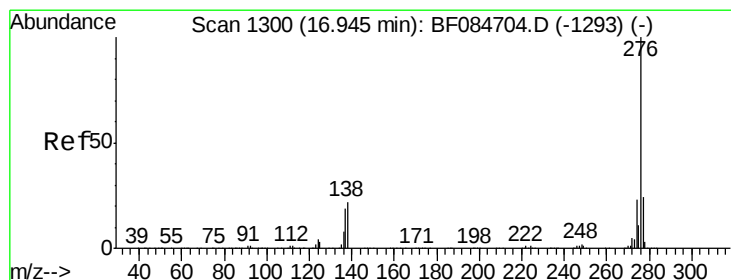
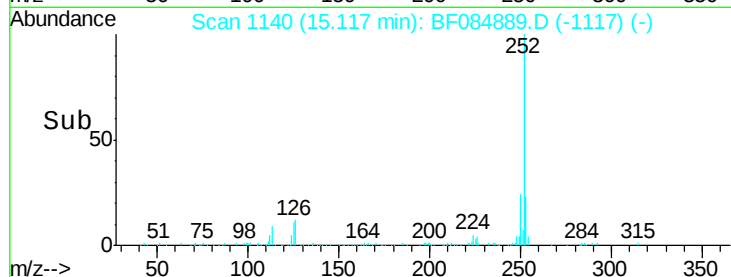
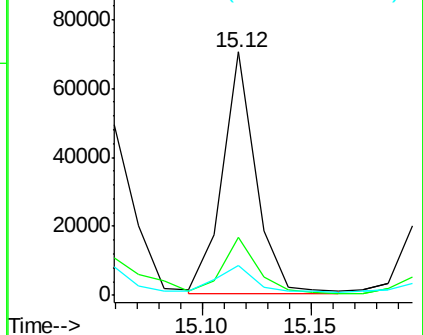
125 12.5 7.0 10.4#



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



#91

Benzo(g,h,i)perylene

Concen: 2.98 ng

RT: 16.82 min Scan# 1289

Delta R.T. -0.07 min

Lab File: BF084889.D

Acq: 6 Feb 2016 4:50

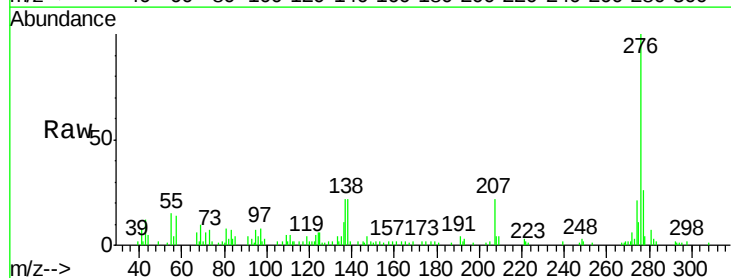
Tgt Ion:276 Resp: 46310

Ion Ratio Lower Upper

276 100

277 25.6 18.8 28.2

138 22.1 17.8 26.6



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

