

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020316\  
 Data File : BF084790.D  
 Acq On : 3 Feb 2016 17:49  
 Operator : SJ/IZ  
 Sample : PB88149BL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB88149BL

Quant Time: Feb 04 00:27:14 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

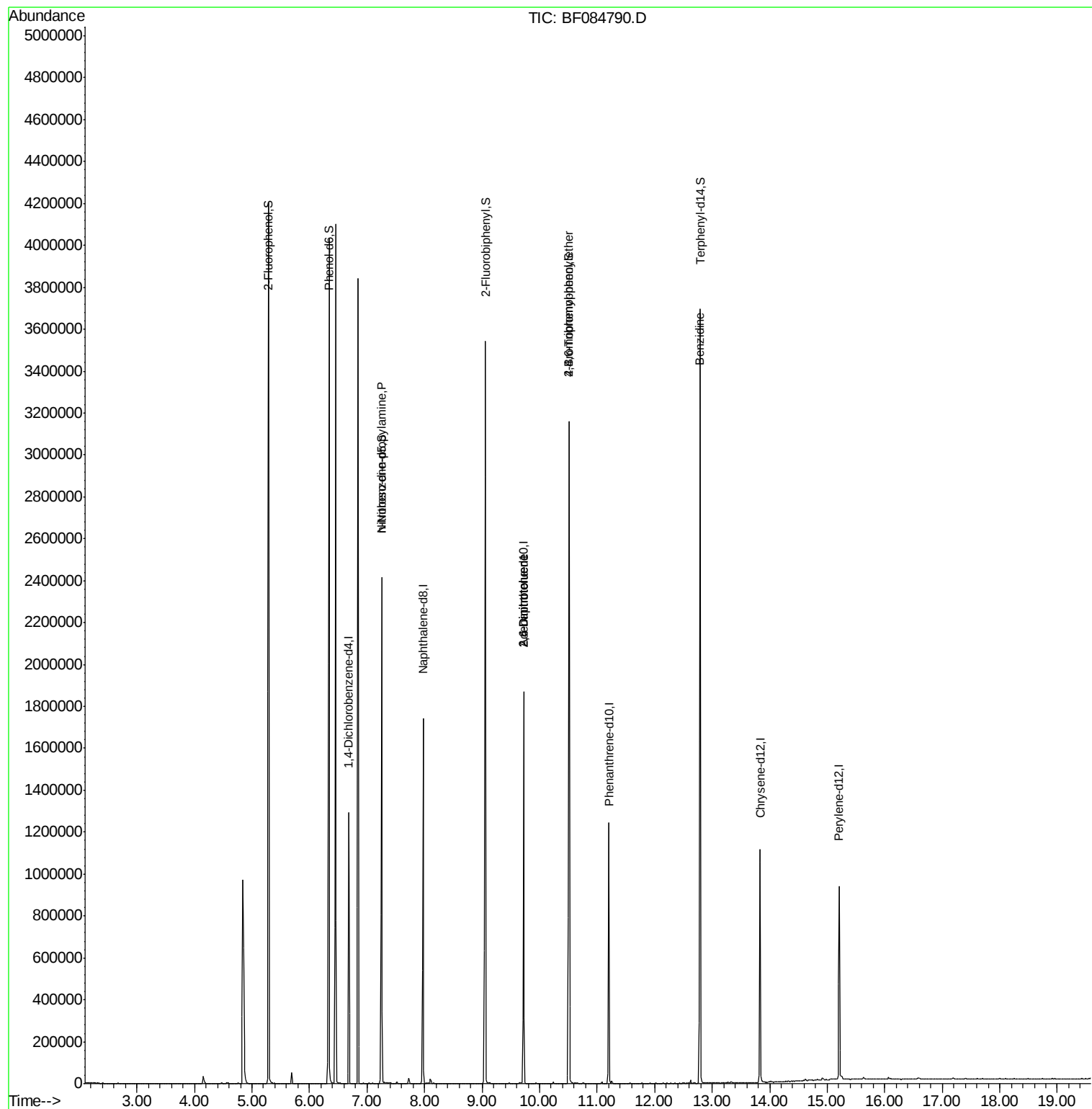
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.68  | 152  | 182747   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.97  | 136  | 809063   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.72  | 164  | 367207   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.21 | 188  | 666278   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.84 | 240  | 587719   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.21 | 264  | 402355   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.29  | 112  | 1198688  | 102.17 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.34  | 99   | 1468983  | 101.00 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.25  | 82   | 828109   | 57.66  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.51 | 330  | 347662   | 90.77  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.06  | 172  | 1670994  | 73.15  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.80 | 244  | 1679124  | 64.74  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.25  | 70   | 111183   | 12.19  | ng    | # 70     |
| 50) 2,6-Dinitrotoluene         | 9.72  | 165  | 47376    | 7.75   | ng    | # 37     |
| 56) 2,4-Dinitrotoluene         | 9.72  | 165  | 47376    | 6.08   | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.51 | 248  | 22870    | 3.11   | ng    | # 1      |
| 76) Benzidine                  | 12.79 | 184  | 21888    | 7.59   | ng    | 98       |

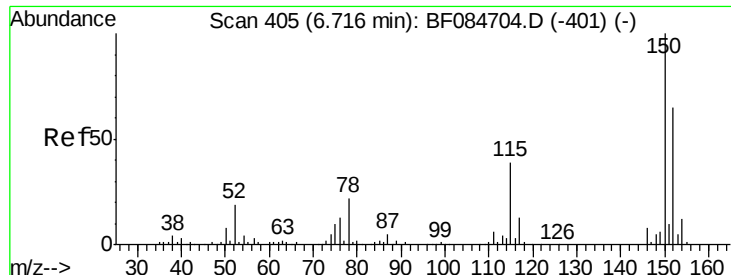
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 03 14:16:01 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 402

Delta R.T. 0.00 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

Instrument :

BNA\_F

ClientSampleId :

PB88149BL

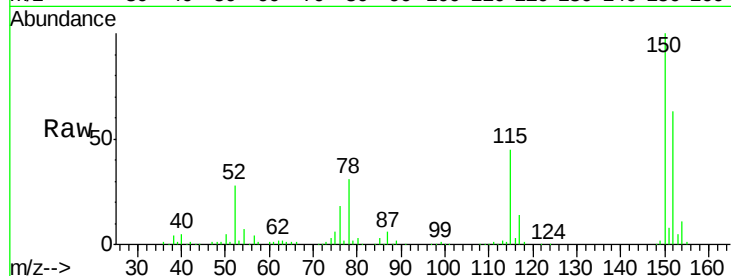
Tgt Ion:152 Resp: 182747

Ion Ratio Lower Upper

152 100

150 159.8 123.0 184.4

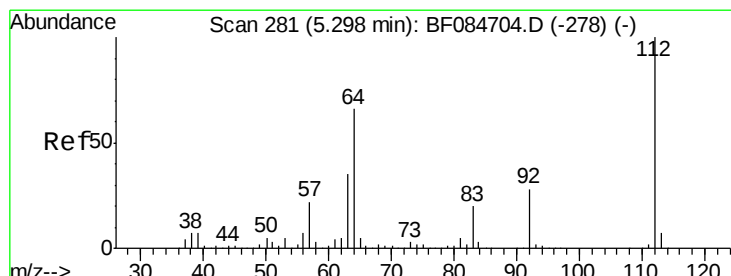
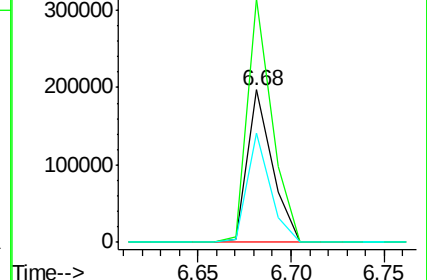
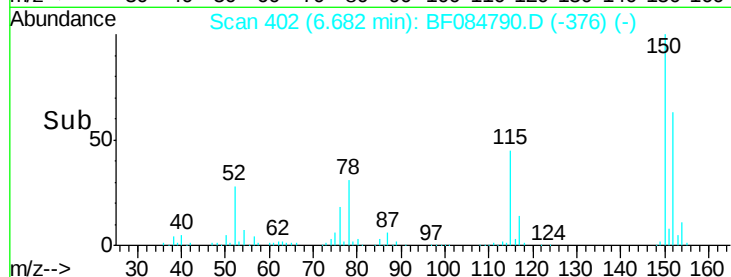
115 72.0 51.4 77.2



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: 102.17 ng

RT: 5.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

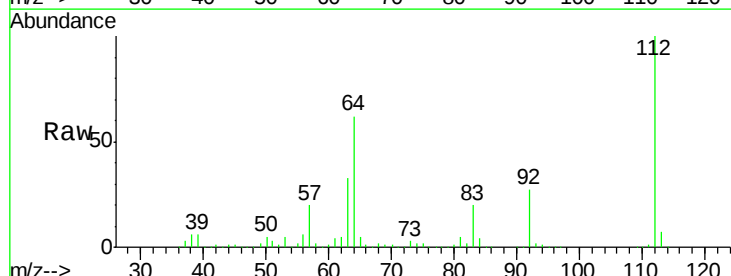
Tgt Ion:112 Resp: 1198688

Ion Ratio Lower Upper

112 100

64 61.8 36.6 55.0#

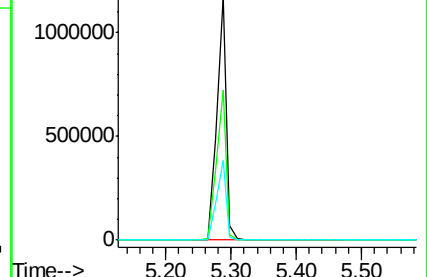
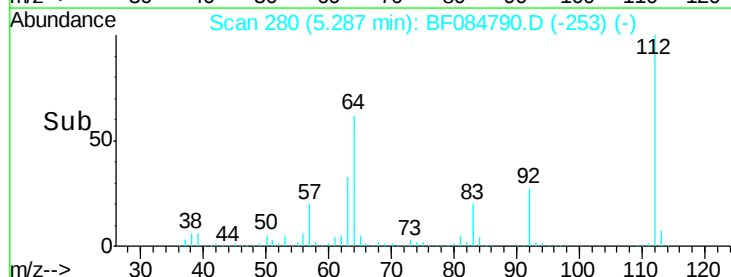
63 32.7 19.4 29.0#

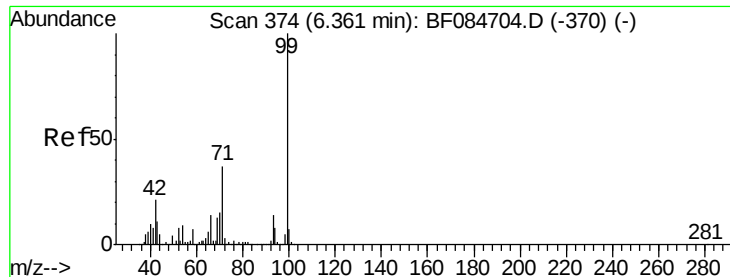


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 101.00 ng

RT: 6.34 min Scan# 372

Delta R.T. 0.00 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

Instrument :

BNA\_F

ClientSampleId :

PB88149BL

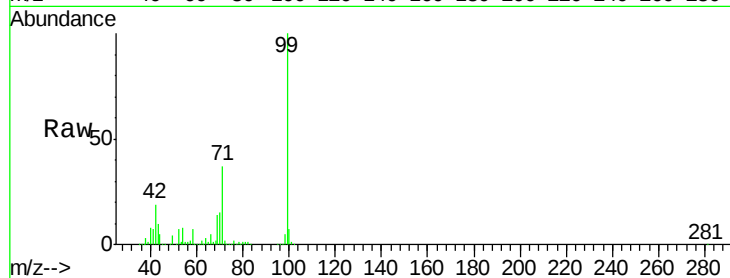
Tgt Ion: 99 Resp: 1468983

Ion Ratio Lower Upper

99 100

42 19.4 12.8 19.2#

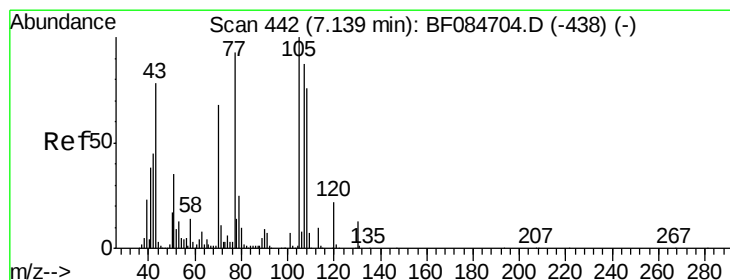
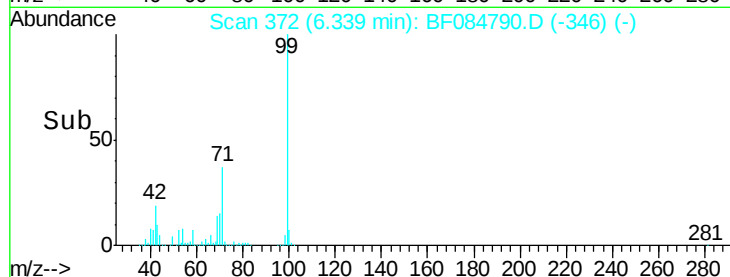
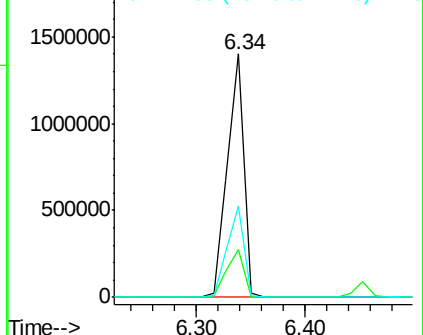
71 37.3 30.9 46.3



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: 12.19 ng

RT: 7.25 min Scan# 452

Delta R.T. 0.14 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

Tgt Ion: 70 Resp: 111183

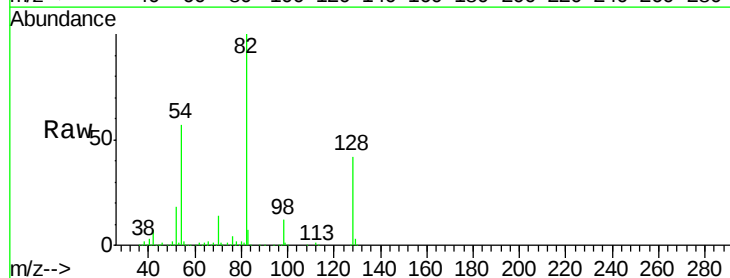
Ion Ratio Lower Upper

70 100

42 51.1 33.3 49.9#

101 0.0 9.3 13.9#

130 2.0 23.4 35.0#

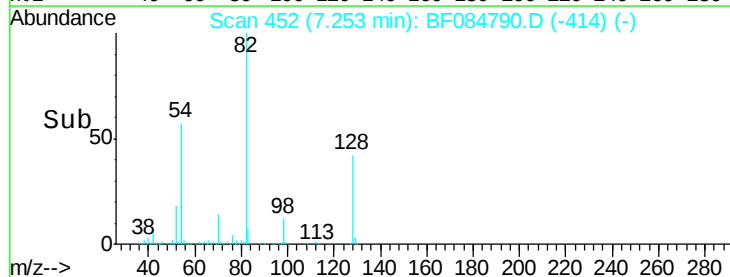
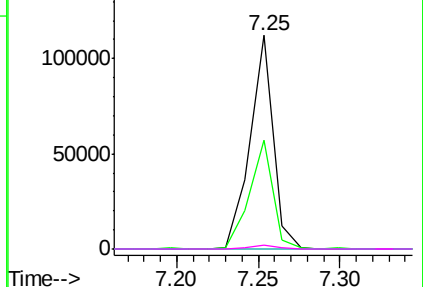


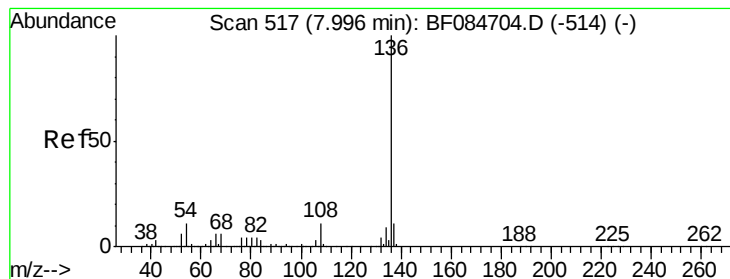
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.97 min Scan# 515

Delta R.T. 0.00 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

Instrument :

BNA\_F

ClientSampleId :

PB88149BL

Tgt Ion: 136 Resp: 809063

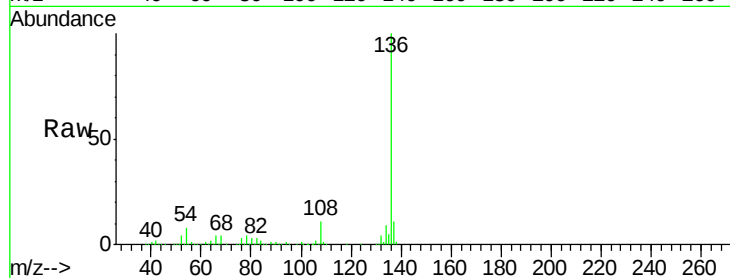
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 7.8 5.8 8.8

68 4.3 4.2 6.2

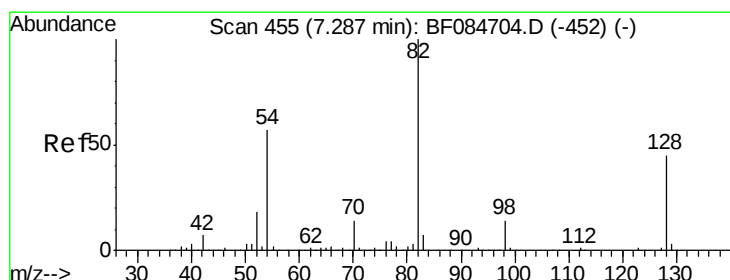
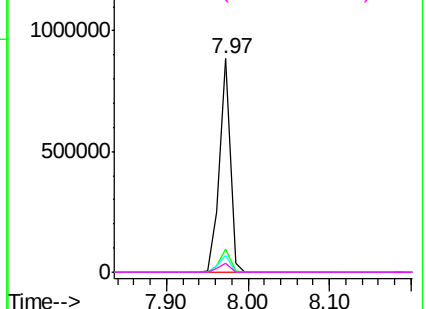
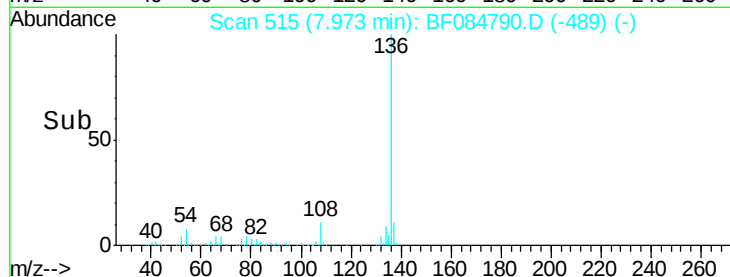


Abundance Ion 136.00 (135.70 to 136.70): E

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: 57.66 ng

RT: 7.25 min Scan# 452

Delta R.T. -0.01 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

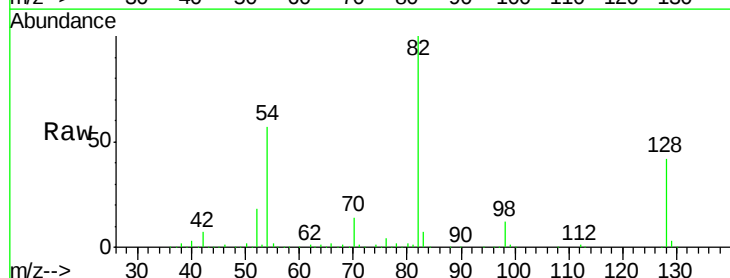
Tgt Ion: 82 Resp: 828109

Ion Ratio Lower Upper

82 100

128 41.8 34.6 51.8

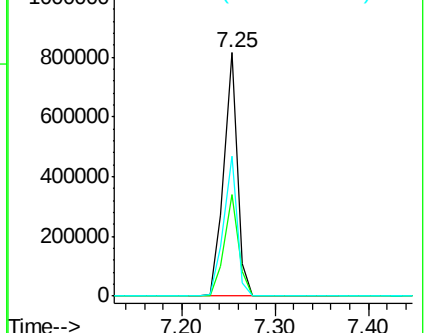
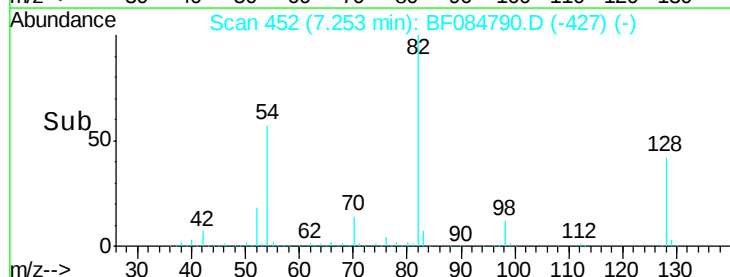
54 57.4 38.4 57.6

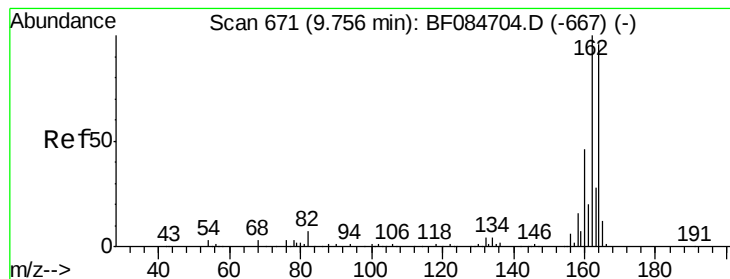


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.72 min Scan# 668

Delta R.T. -0.01 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

Instrument :

BNA\_F

ClientSampleId :

PB88149BL

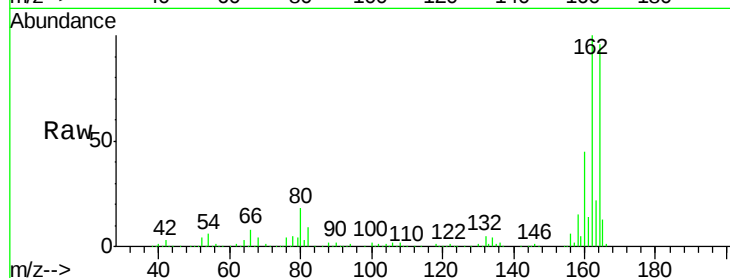
Tgt Ion:164 Resp: 367207

Ion Ratio Lower Upper

164 100

162 104.1 85.1 127.7

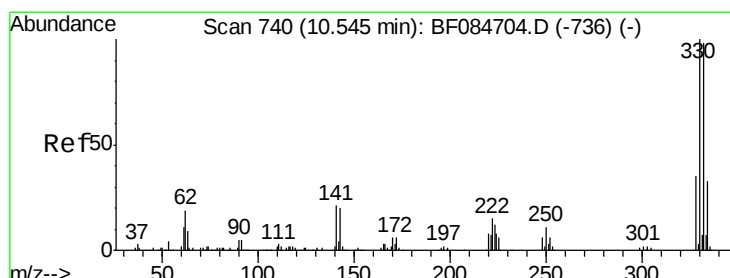
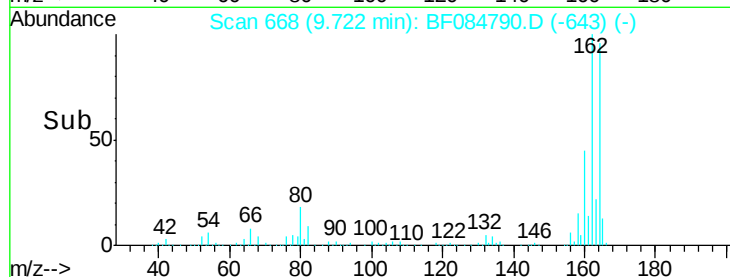
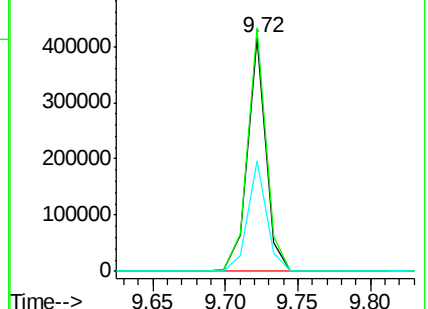
160 47.2 37.5 56.3



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: 90.77 ng

RT: 10.51 min Scan# 737

Delta R.T. -0.01 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

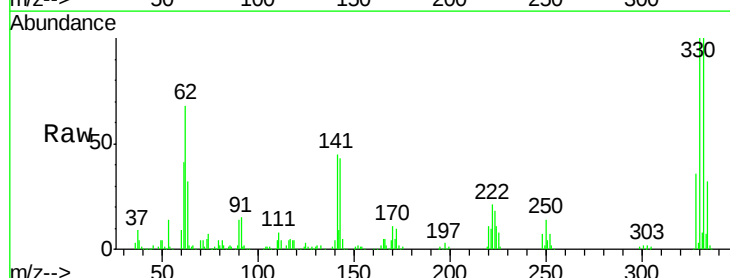
Tgt Ion:330 Resp: 347662

Ion Ratio Lower Upper

330 100

332 99.1 76.6 114.8

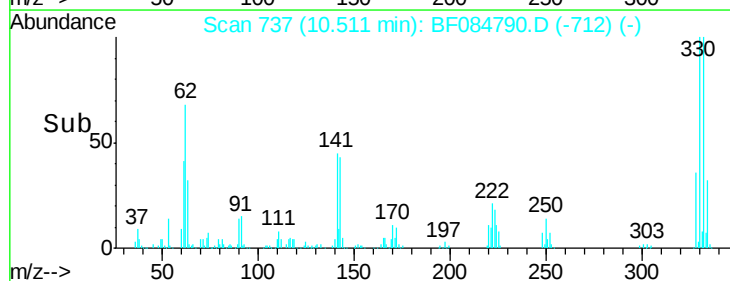
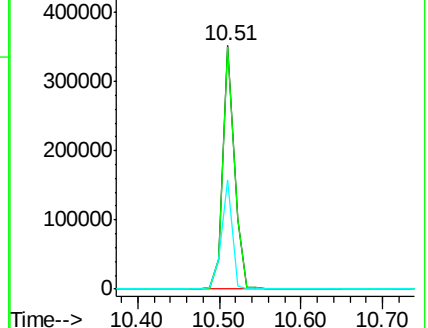
141 41.6 27.8 41.6

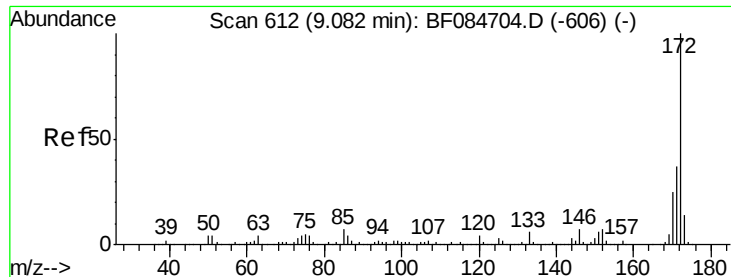


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

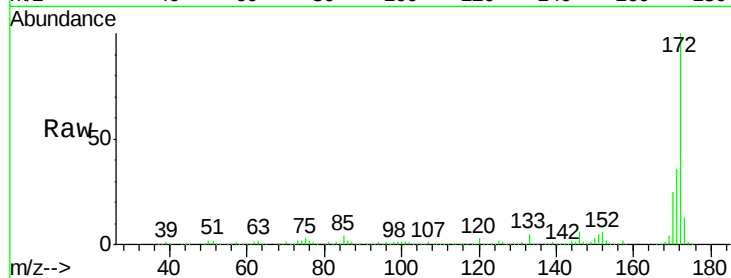




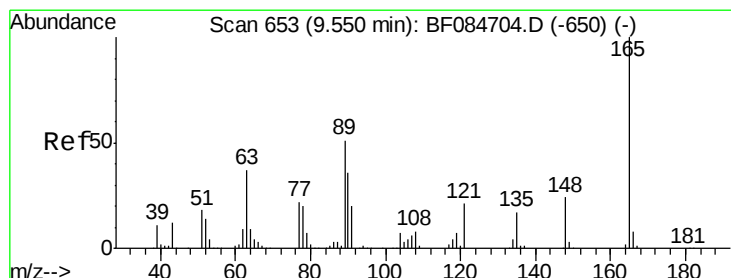
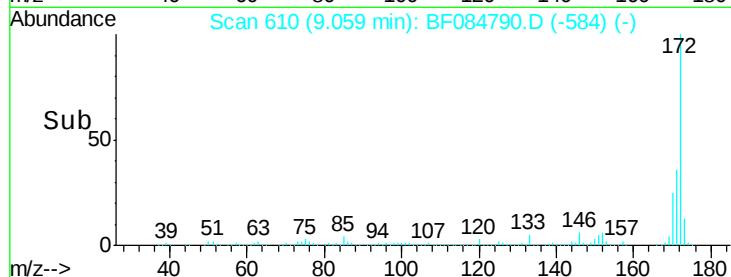
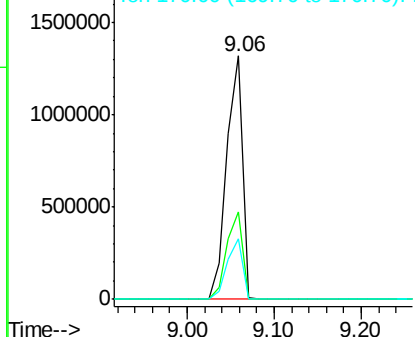
#44  
 2-Fluorobiphenyl  
 Concen: 73.15 ng  
 RT: 9.06 min Scan# 610  
 Delta R.T. 0.00 min  
 Lab File: BF084790.D  
 Acq: 3 Feb 2016 17:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB88149BL

Tgt Ion:172 Resp: 1670994  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 28.9 43.3  
 170 24.8 18.6 27.8

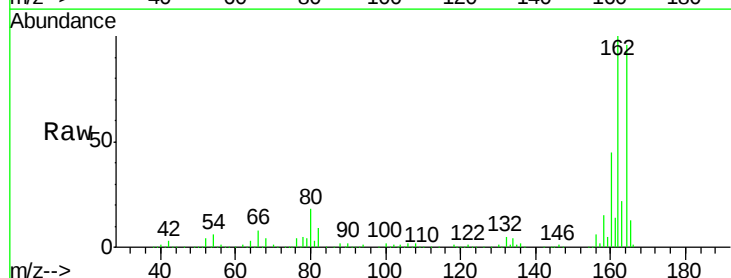


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

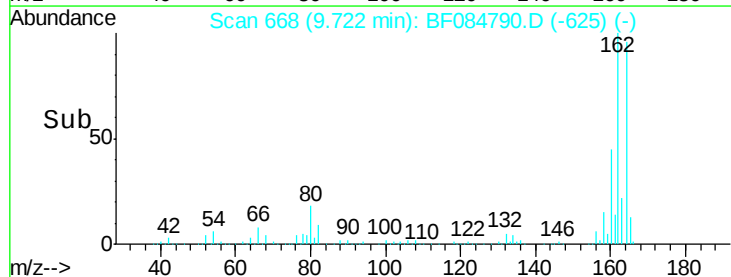
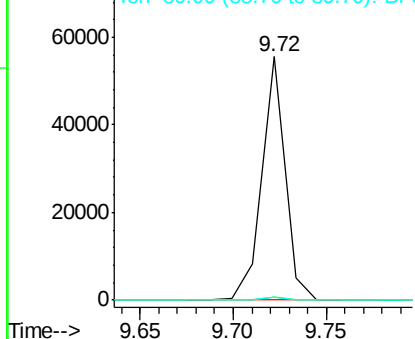


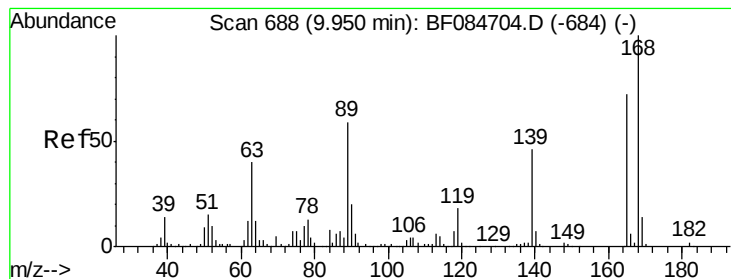
#50  
 2,6-Dinitrotoluene  
 Concen: 7.75 ng  
 RT: 9.72 min Scan# 668  
 Delta R.T. 0.19 min  
 Lab File: BF084790.D  
 Acq: 3 Feb 2016 17:49

Tgt Ion:165 Resp: 47376  
 Ion Ratio Lower Upper  
 165 100  
 63 1.2 28.8 43.2#  
 89 1.2 35.1 52.7#



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





#56

2,4-Dinitrotoluene

Concen: 6.08 ng

RT: 9.72 min Scan# 668

Delta R.T. -0.21 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

Instrument :

BNA\_F

ClientSampleId :

PB88149BL

Tgt Ion:165 Resp: 47376

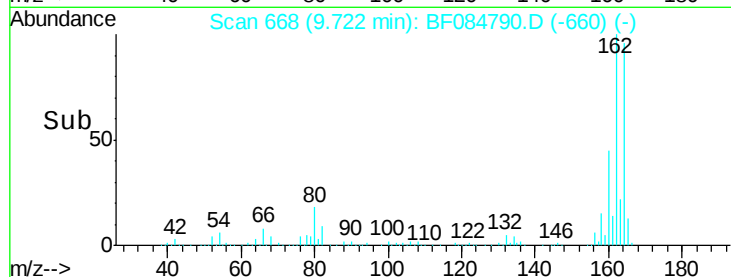
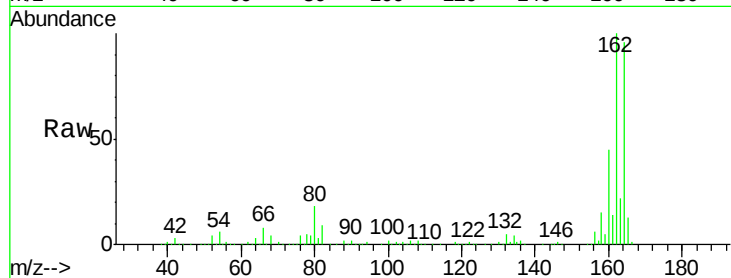
Ion Ratio Lower Upper

165 100

63 1.2 36.7 55.1#

89 1.2 61.9 92.9#

182 0.0 2.0 3.0#

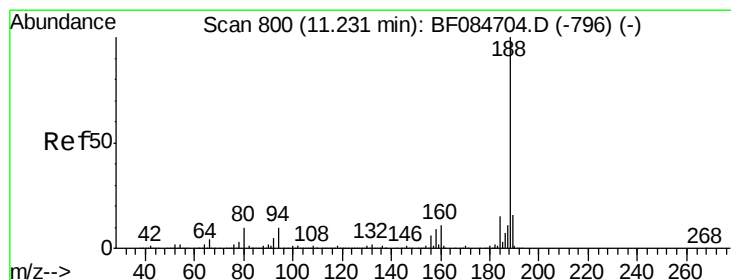
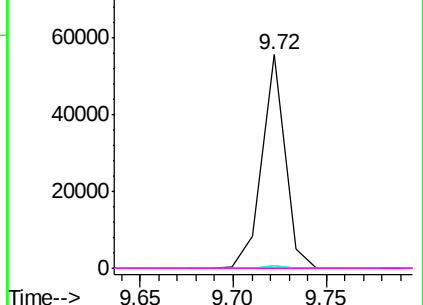


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.21 min Scan# 798

Delta R.T. 0.00 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

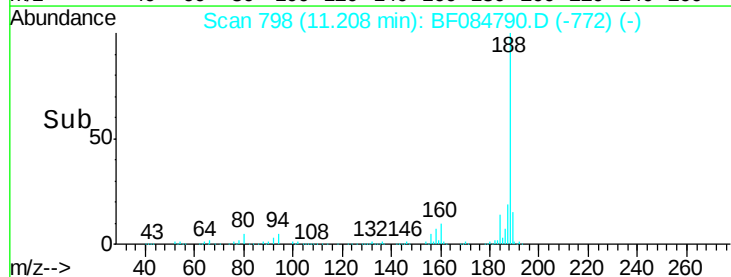
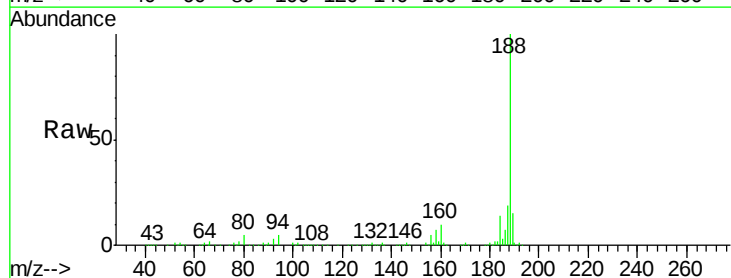
Tgt Ion:188 Resp: 666278

Ion Ratio Lower Upper

188 100

94 4.9 9.0 13.4#

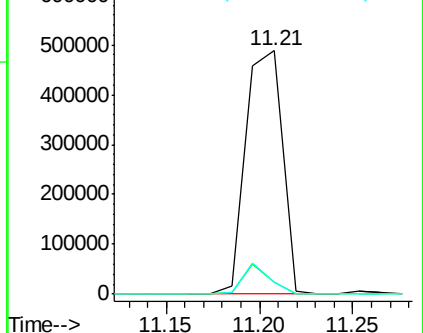
80 5.0 9.6 14.4#

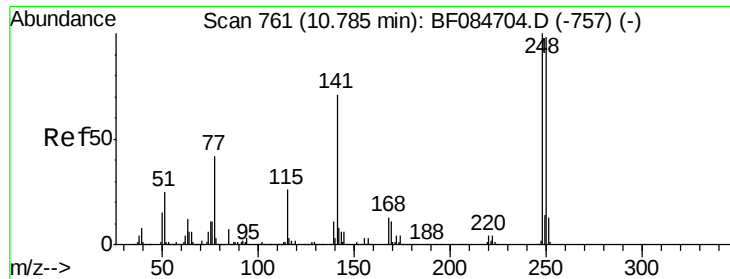


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

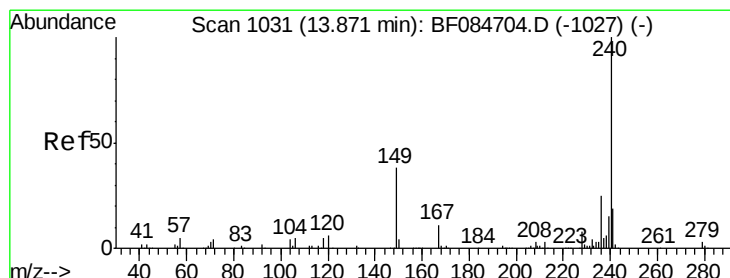
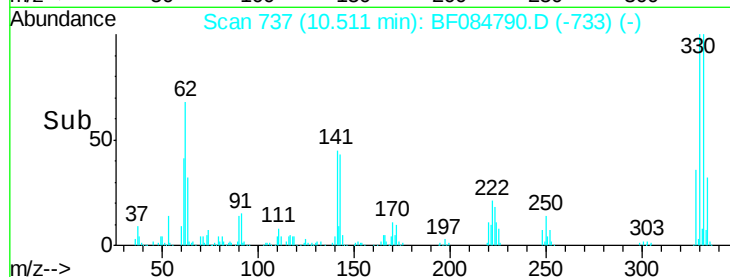
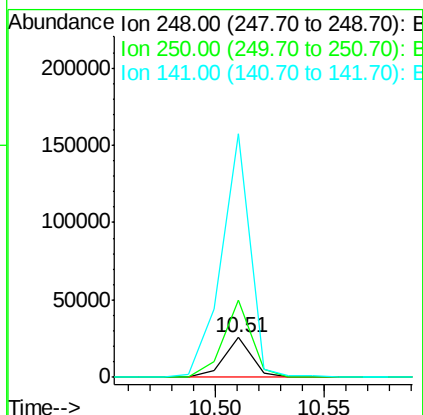
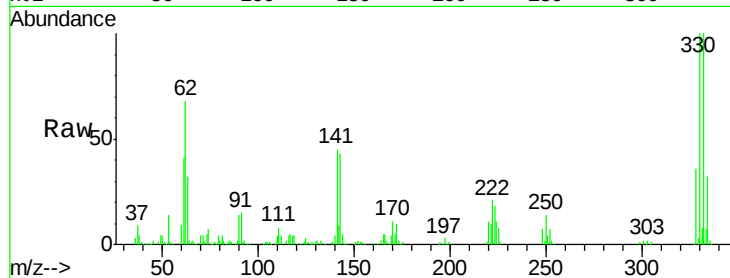




#66  
 4-Bromophenyl-phenylether  
 Concen: 3.11 ng  
 RT: 10.51 min Scan# 737  
 Delta R.T. -0.25 min  
 Lab File: BF084790.D  
 Acq: 3 Feb 2016 17:49

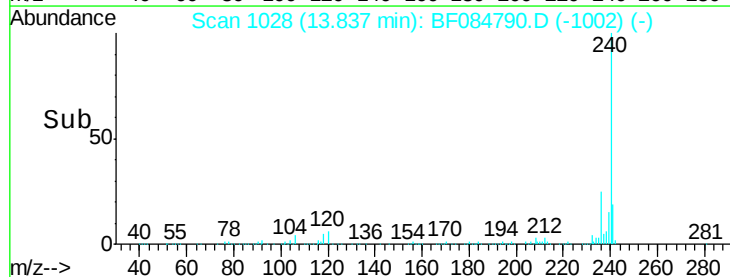
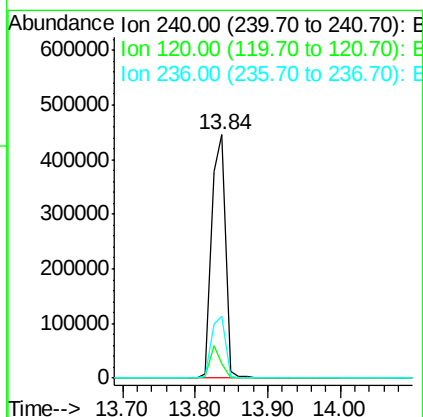
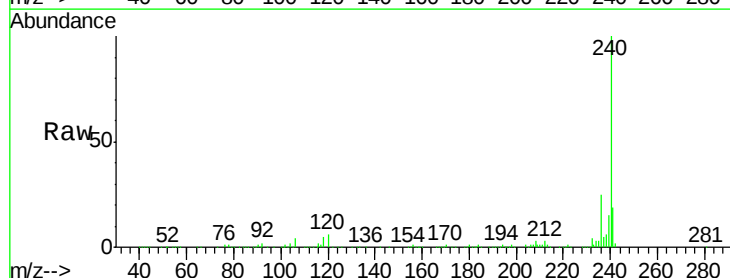
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB88149BL

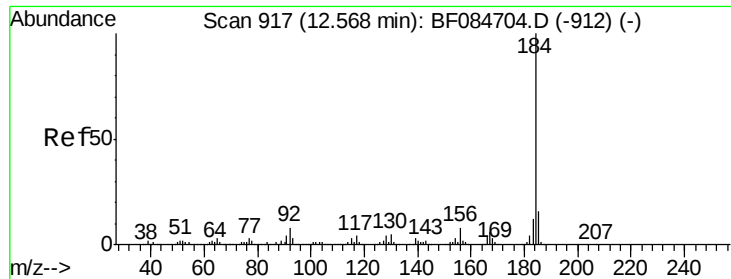
Tgt Ion:248 Resp: 22870  
 Ion Ratio Lower Upper  
 248 100  
 250 193.5 78.4 117.6#  
 141 610.9 44.0 66.0#



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.84 min Scan# 1028  
 Delta R.T. 0.00 min  
 Lab File: BF084790.D  
 Acq: 3 Feb 2016 17:49

Tgt Ion:240 Resp: 587719  
 Ion Ratio Lower Upper  
 240 100  
 120 5.8 9.5 14.3#  
 236 25.4 20.6 31.0





#76

Benzidine

Concen: 7.59 ng

RT: 12.79 min Scan# 936

Delta R.T. 0.24 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

Instrument :

BNA\_F

ClientSampleId :

PB88149BL

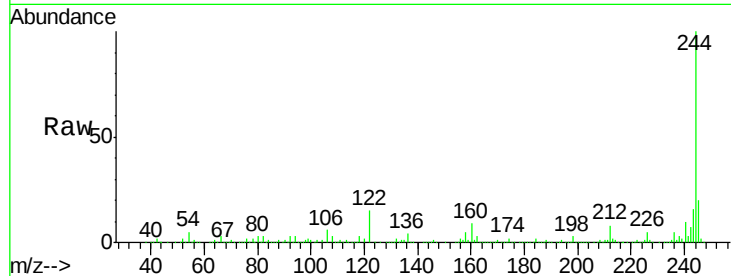
Tgt Ion:184 Resp: 21888

Ion Ratio Lower Upper

184 100

185 15.8 12.2 18.2

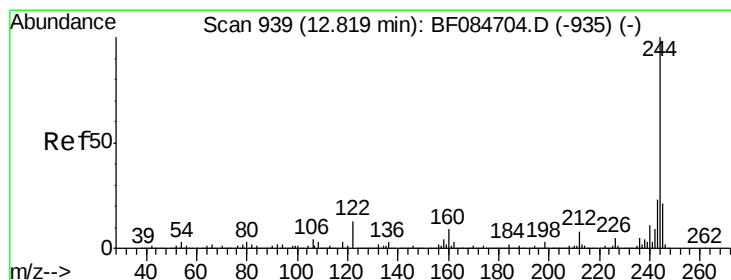
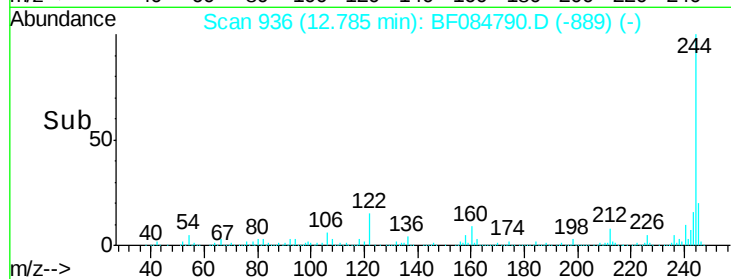
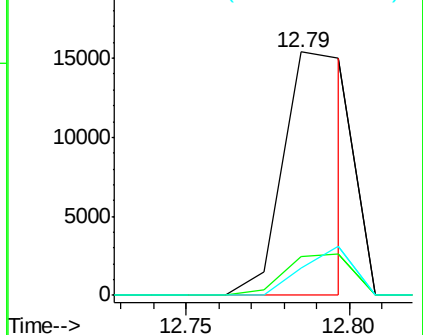
183 11.4 9.8 14.8



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 64.74 ng

RT: 12.80 min Scan# 937

Delta R.T. 0.00 min

Lab File: BF084790.D

Acq: 3 Feb 2016 17:49

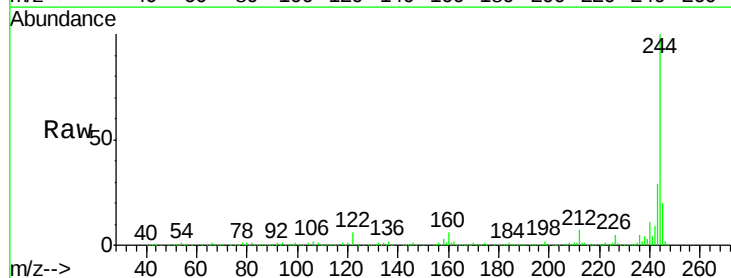
Tgt Ion:244 Resp: 1679124

Ion Ratio Lower Upper

244 100

212 6.7 5.7 8.5

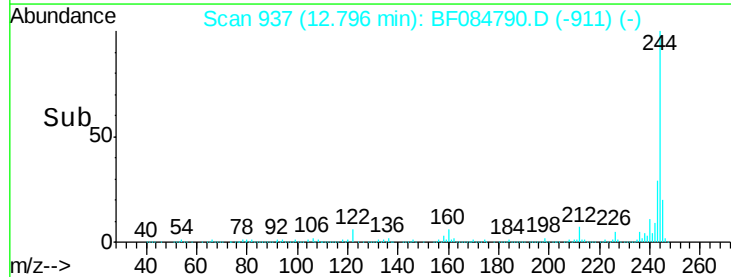
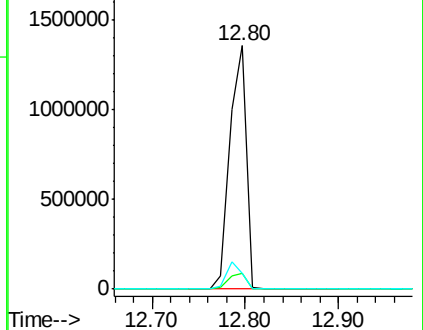
122 6.5 7.4 11.0#

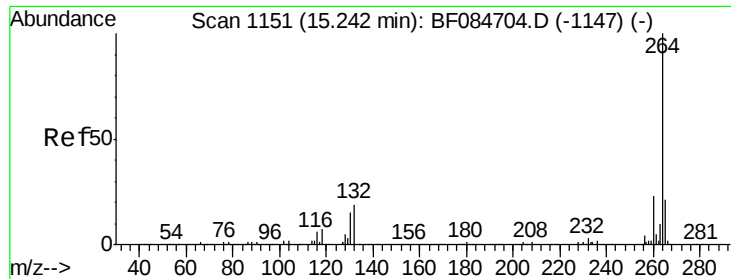


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

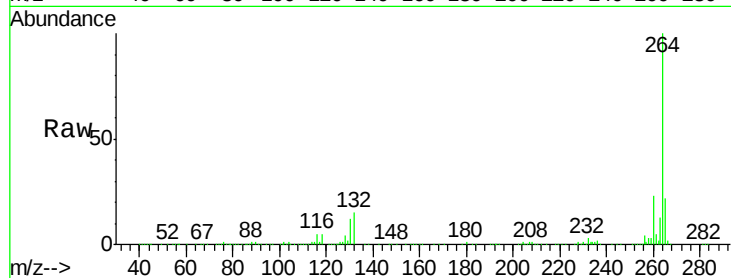




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.21 min Scan# 1148  
Delta R.T. 0.00 min  
Lab File: BF084790.D  
Acq: 3 Feb 2016 17:49

Instrument :  
BNA\_F  
ClientSampleId :  
PB88149BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.4  | 29.2  |
| 265     | 22.2  | 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

