

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052016\  
 Data File : BF087231.D  
 Acq On : 20 May 2016 18:28  
 Operator : UM/SJ  
 Sample : PB90736BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB90736BL

Quant Time: May 20 23:23:16 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF051716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 17 16:55:01 2016  
 Response via : Initial Calibration

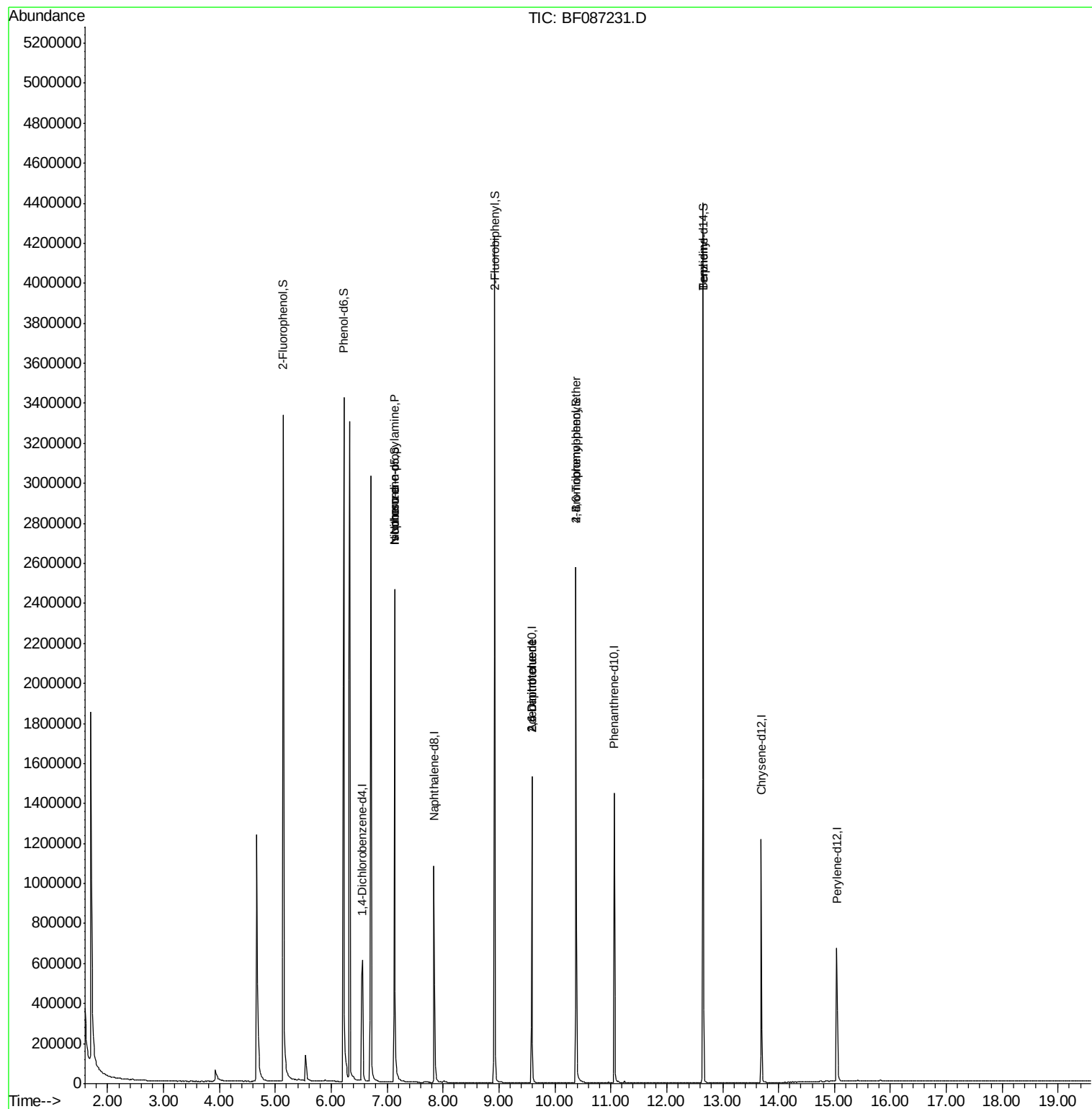
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.56  | 152  | 127536   | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 7.84  | 136  | 549711   | 20.00  | ng    | -0.06    |
| 38) Acenaphthene-d10           | 9.59  | 164  | 286150   | 20.00  | ng    | -0.06    |
| 63) Phenanthrene-d10           | 11.06 | 188  | 532721   | 20.00  | ng    | -0.06    |
| 75) Chrysene-d12               | 13.69 | 240  | 418332   | 20.00  | ng    | -0.07    |
| 86) Perylene-d12               | 15.04 | 264  | 299620   | 20.00  | ng    | -0.07    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.14  | 112  | 885478   | 116.70 | ng    | -0.06    |
| 7) Phenol-d6                   | 6.23  | 99   | 1304125  | 128.15 | ng    | -0.06    |
| 23) Nitrobenzene-d5            | 7.13  | 82   | 769286   | 69.75  | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol       | 10.38 | 330  | 293464   | 92.81  | ng    | -0.07    |
| 44) 2-Fluorobiphenyl           | 8.92  | 172  | 1450946  | 83.98  | ng    | -0.06    |
| 78) Terphenyl-d14              | 12.65 | 244  | 1350684  | 73.04  | ng    | -0.06    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.13  | 70   | 110150   | 14.24  | ng    | # 74     |
| 25) Isophorone                 | 7.13  | 82   | 696358   | 34.49  | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 9.59  | 165  | 36570    | 7.72   | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 9.59  | 165  | 36570    | 6.02   | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 10.38 | 248  | 18939    | 3.46   | ng    | # 1      |
| 76) Benzidine                  | 12.65 | 184  | 20672    | 2.28   | ng    | 96       |

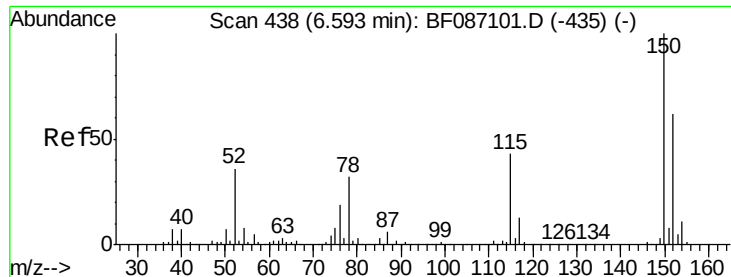
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.56 min Scan# 435

Delta R.T. -0.05 min

Lab File: BF087231.D

Acq: 20 May 2016 18:28

Instrument :

BNA\_F

ClientSampleId :

PB90736BL

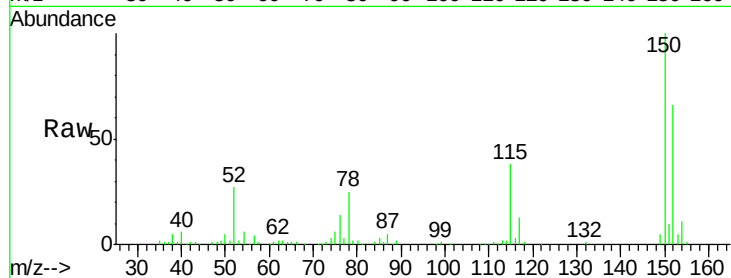
Tgt Ion:152 Resp: 127536

Ion Ratio Lower Upper

152 100

150 151.7 125.8 188.6

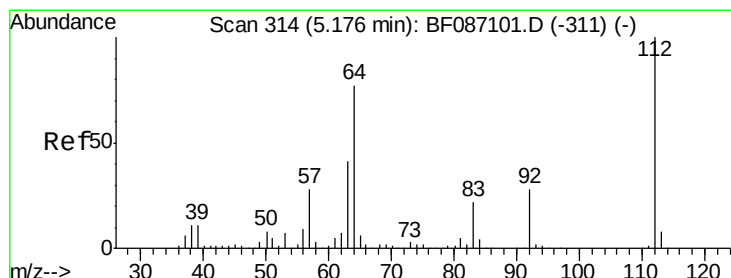
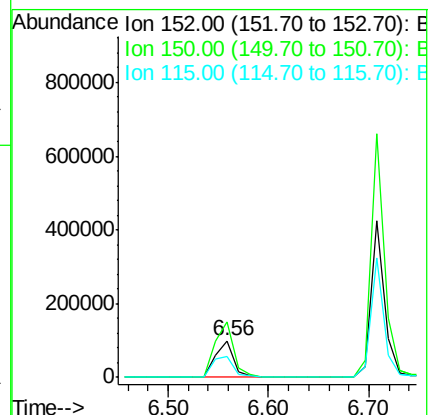
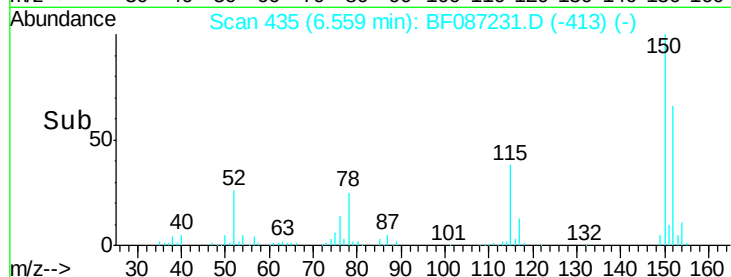
115 57.6 51.5 77.3



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: 116.70 ng

RT: 5.14 min Scan# 311

Delta R.T. -0.06 min

Lab File: BF087231.D

Acq: 20 May 2016 18:28

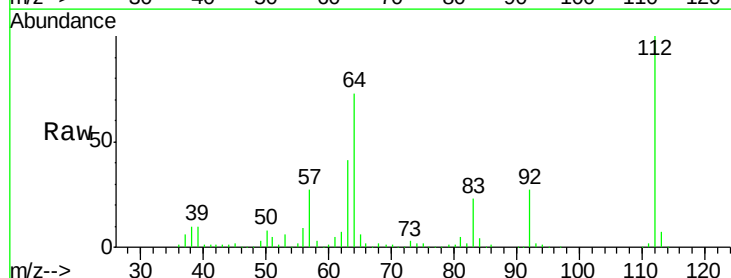
Tgt Ion:112 Resp: 885478

Ion Ratio Lower Upper

112 100

64 73.2 52.1 78.1

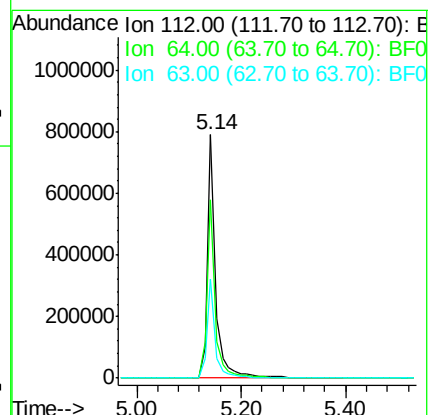
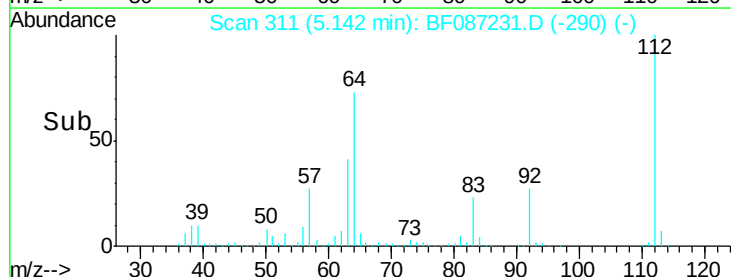
63 40.6 25.7 38.5#

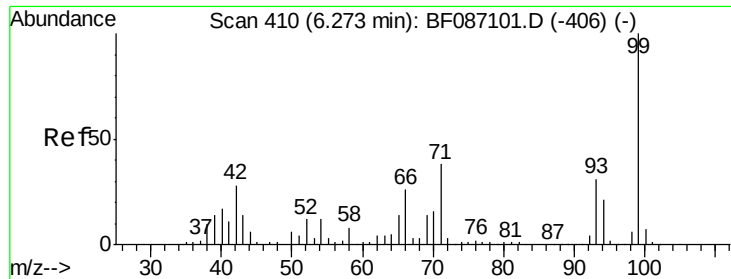


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 128.15 ng

RT: 6.23 min Scan# 406

Delta R.T. -0.06 min

Lab File: BF087231.D

Acq: 20 May 2016 18:28

Instrument :

BNA\_F

ClientSampleId :

PB90736BL

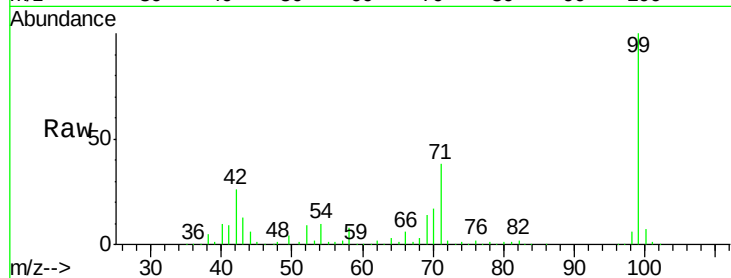
Tgt Ion: 99 Resp: 1304125

Ion Ratio Lower Upper

99 100

42 26.0 13.6 20.4#

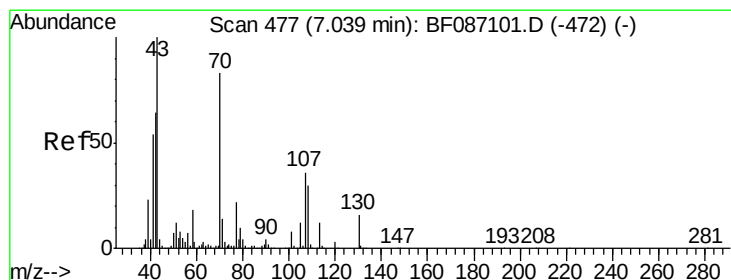
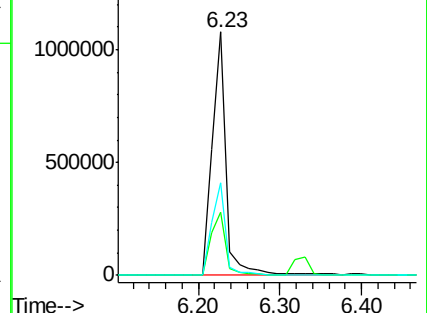
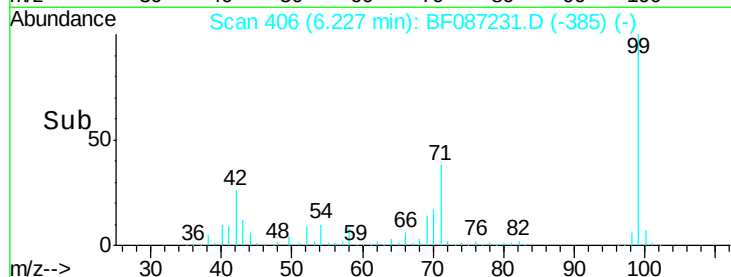
71 37.9 24.6 36.8#



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: 14.24 ng

RT: 7.13 min Scan# 485

Delta R.T. 0.08 min

Lab File: BF087231.D

Acq: 20 May 2016 18:28

Tgt Ion: 70 Resp: 110150

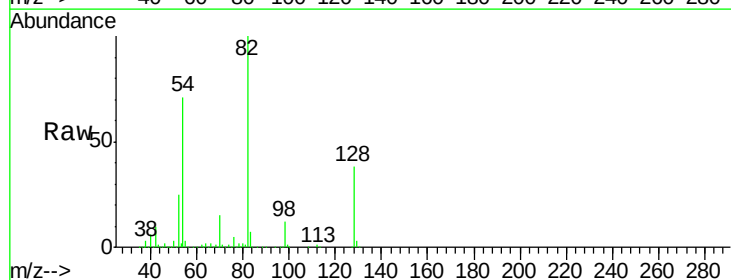
Ion Ratio Lower Upper

70 100

42 67.3 43.1 64.7#

101 0.0 8.1 12.1#

130 1.8 18.6 28.0#

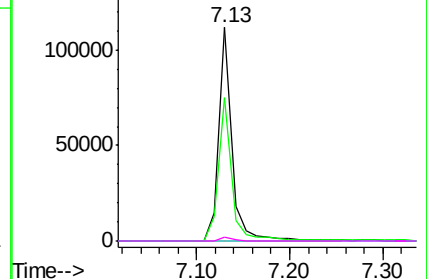
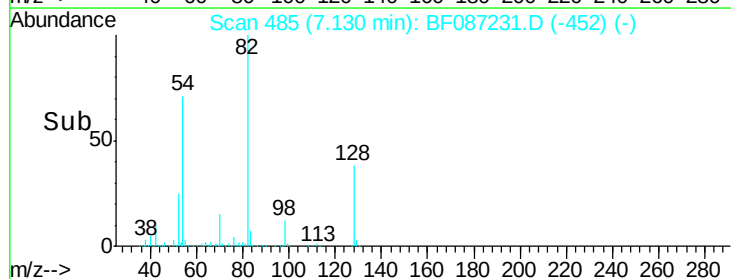


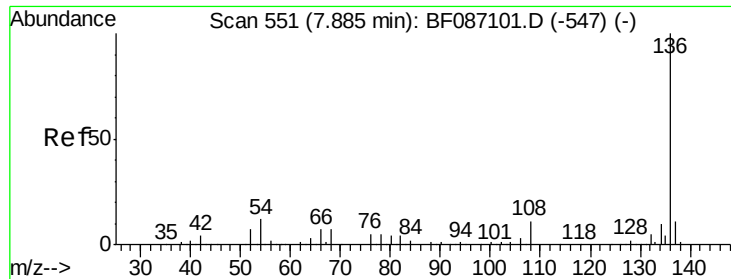
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

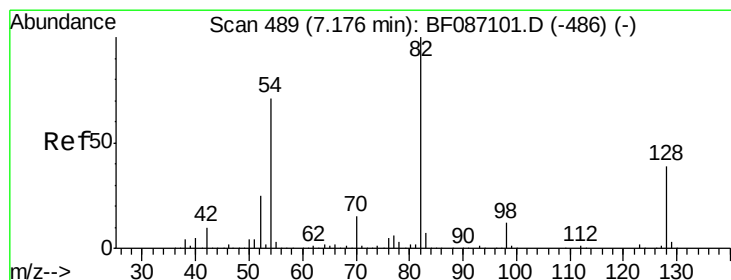
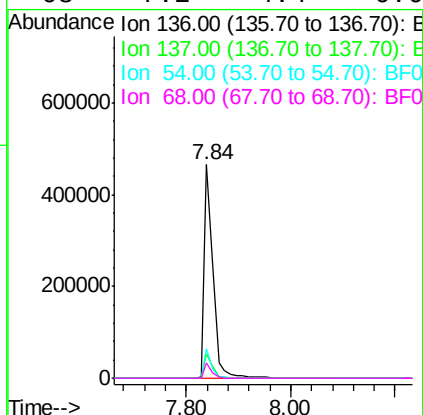
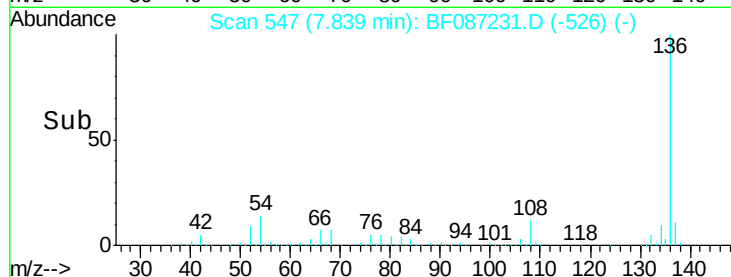
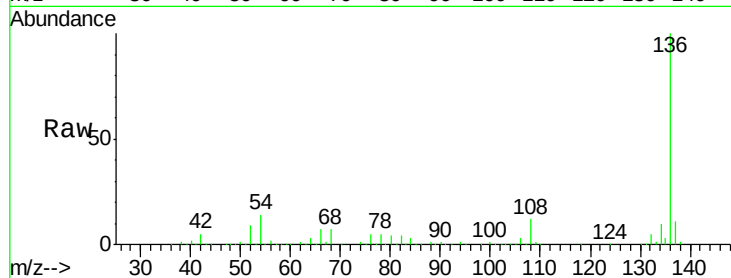




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.84 min Scan# 547  
Delta R.T. -0.06 min  
Lab File: BF087231.D  
Acq: 20 May 2016 18:28

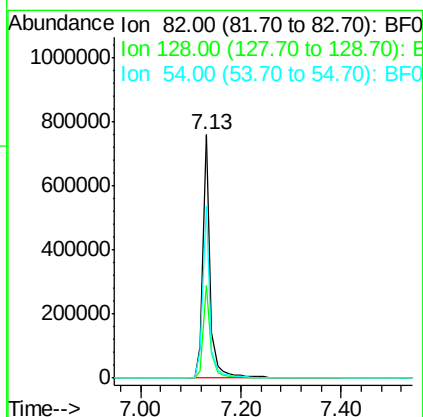
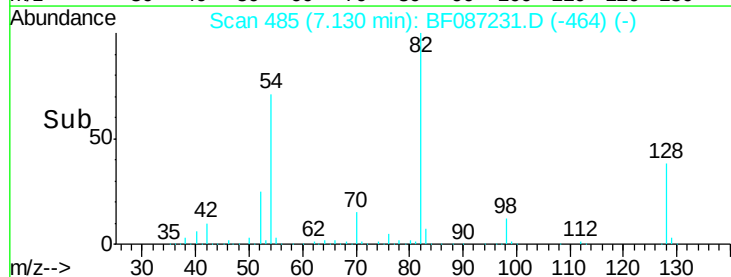
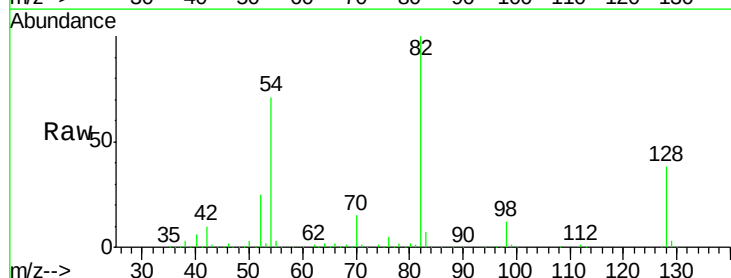
Instrument :  
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PB90736BL

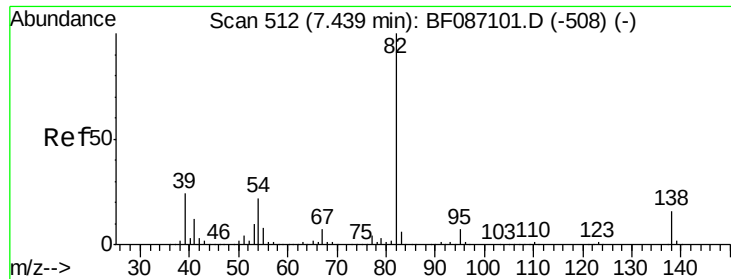
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 549711 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.8   | 13.2   |
| 54       | 13.9  | 5.0   | 7.4#   |
| 68       | 7.2   | 4.4   | 6.6#   |



#23  
Nitrobenzene-d5  
Concen: 69.75 ng  
RT: 7.13 min Scan# 485  
Delta R.T. -0.06 min  
Lab File: BF087231.D  
Acq: 20 May 2016 18:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 769286 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 38.0  | 40.6  | 61.0#  |
| 54       | 70.8  | 38.1  | 57.1#  |





#25

Isophorone

Concen: 34.49 ng

RT: 7.13 min Scan# 485

Delta R.T. -0.32 min

Lab File: BF087231.D

Acq: 20 May 2016 18:28

Instrument :

BNA\_F

ClientSampleId :

PB90736BL

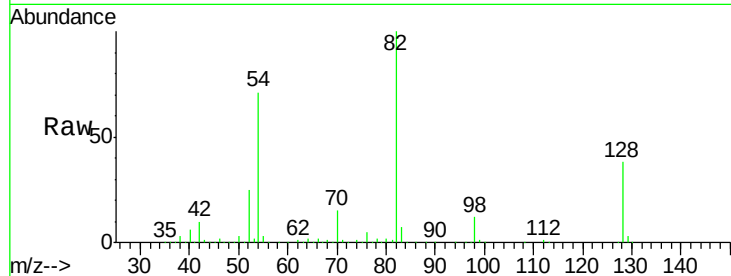
Tgt Ion: 82 Resp: 696358

Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

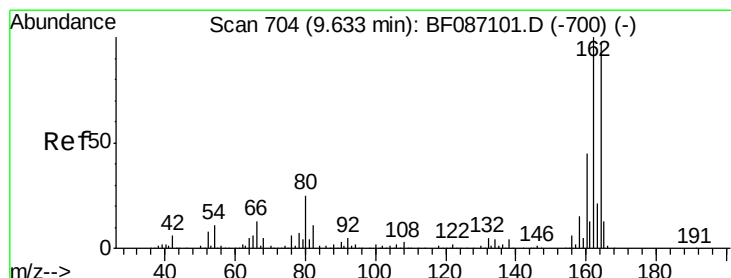
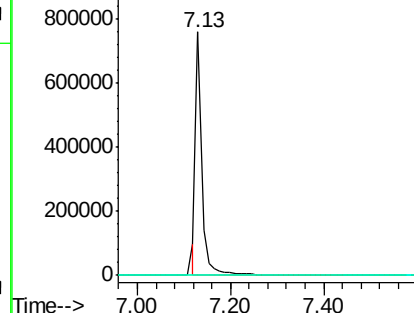
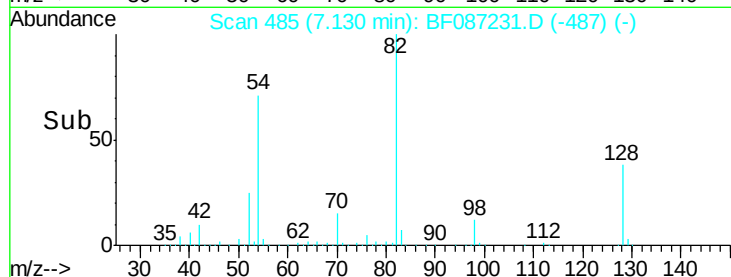
138 0.0 12.4 18.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.06 min

Lab File: BF087231.D

Acq: 20 May 2016 18:28

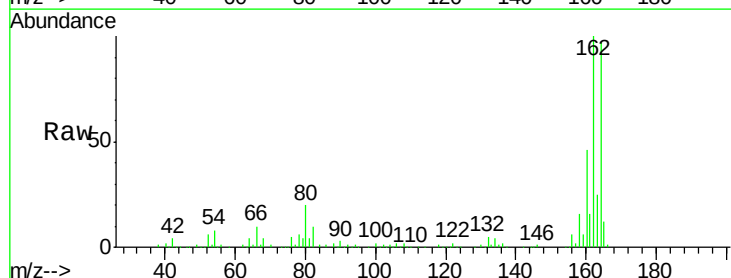
Tgt Ion: 164 Resp: 286150

Ion Ratio Lower Upper

164 100

162 103.5 82.8 124.2

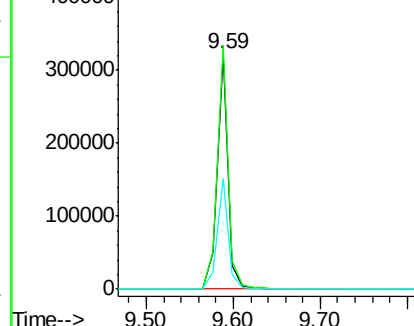
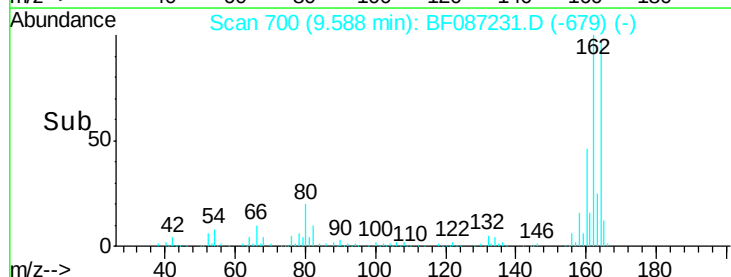
160 47.2 36.9 55.3

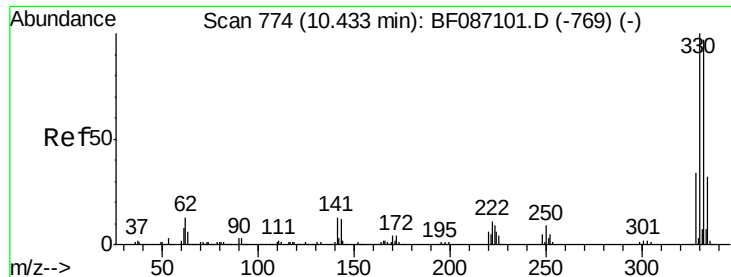


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

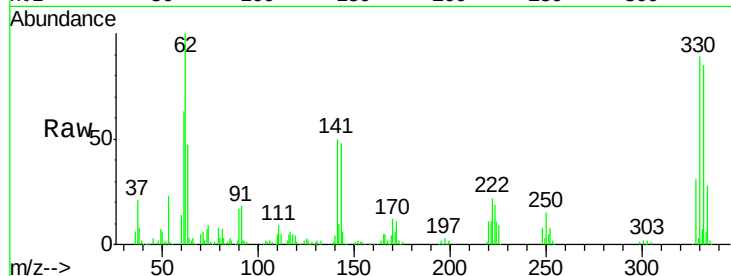




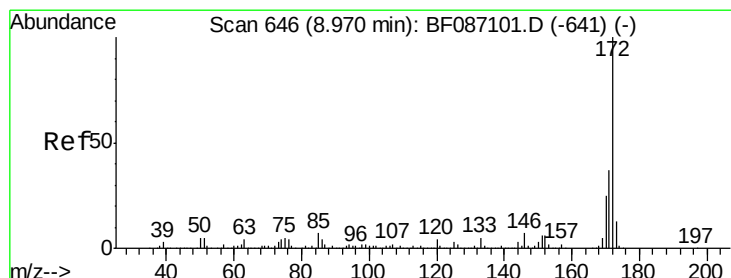
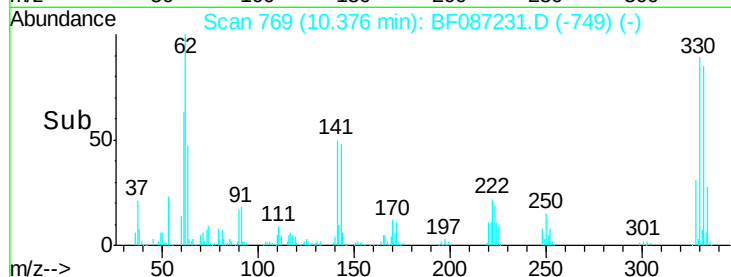
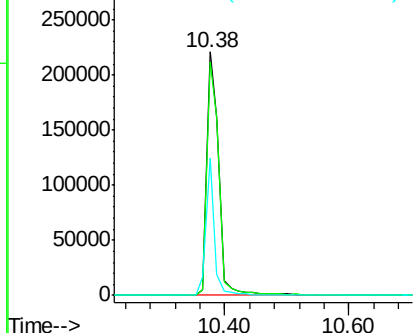
#41  
 2,4,6-Tribromophenol  
 Concen: 92.81 ng  
 RT: 10.38 min Scan# 769  
 Delta R.T. -0.07 min  
 Lab File: BF087231.D  
 Acq: 20 May 2016 18:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB90736BL

Tgt Ion: 330 Resp: 293464  
 Ion Ratio Lower Upper  
 330 100  
 332 97.6 79.0 118.4  
 141 40.6 31.2 46.8

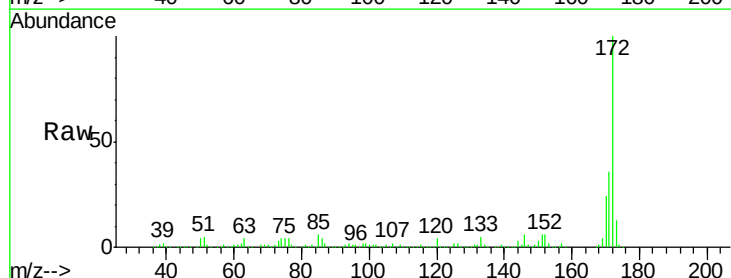


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

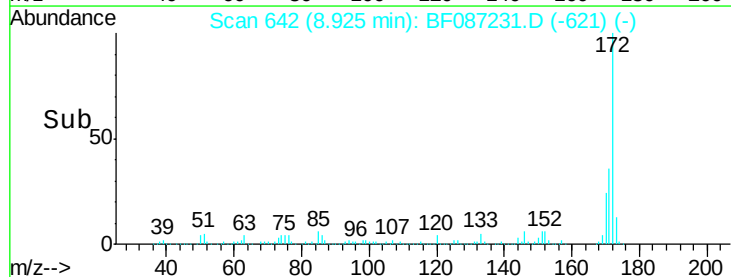
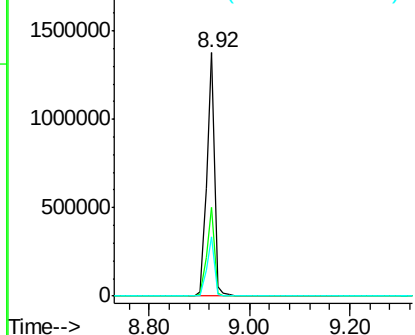


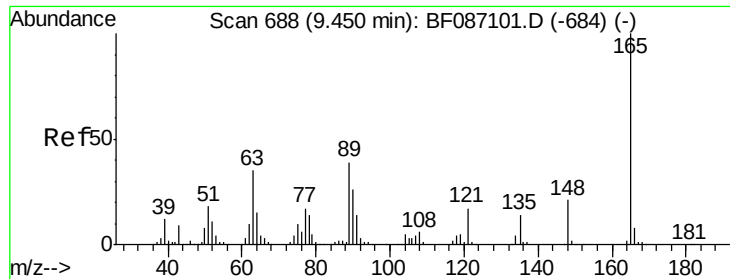
#44  
 2-Fluorobiphenyl  
 Concen: 83.98 ng  
 RT: 8.92 min Scan# 642  
 Delta R.T. -0.06 min  
 Lab File: BF087231.D  
 Acq: 20 May 2016 18:28

Tgt Ion: 172 Resp: 1450946  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 29.0 43.6  
 170 24.5 19.8 29.8



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

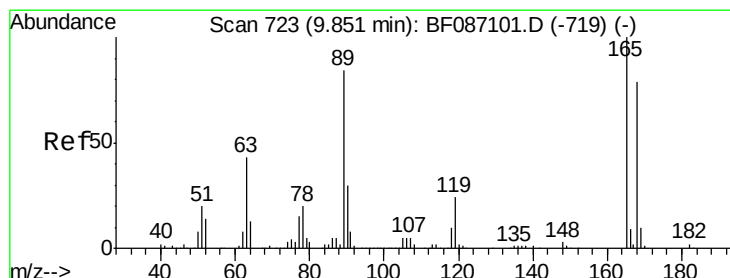
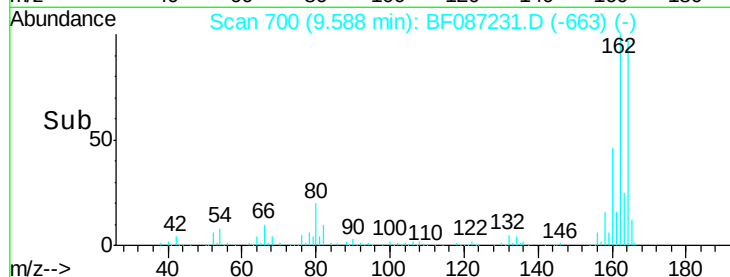
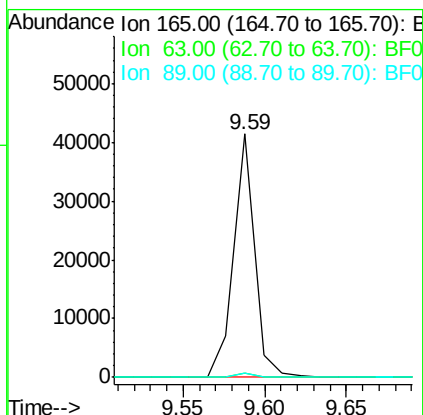
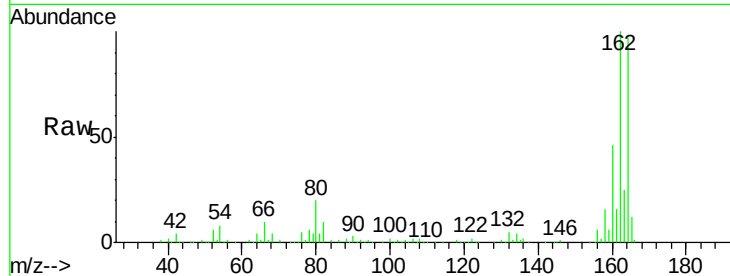




#50  
 2,6-Dinitrotoluene  
 Concen: 7.72 ng  
 RT: 9.59 min Scan# 700  
 Delta R.T. 0.13 min  
 Lab File: BF087231.D  
 Acq: 20 May 2016 18:28

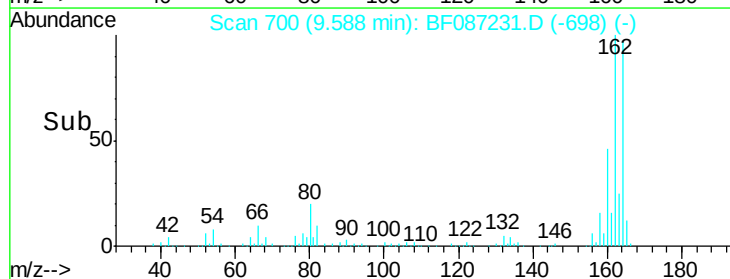
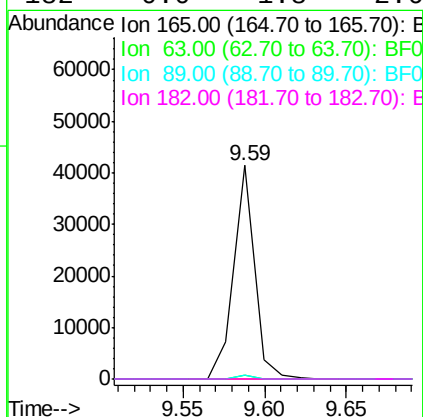
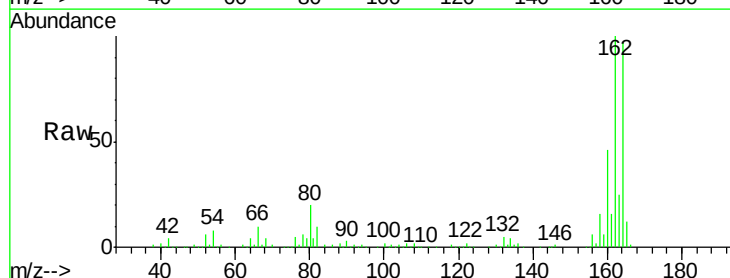
Instrument :  
 BNA\_F  
 ClientSampled :  
 PB90736BL

Tgt Ion:165 Resp: 36570  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 51.8 77.8#  
 89 1.8 50.7 76.1#

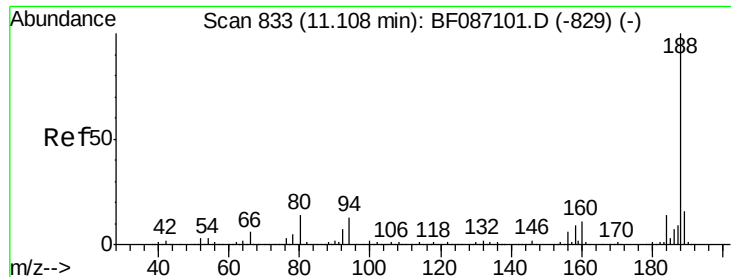


#56  
 2,4-Dinitrotoluene  
 Concen: 6.02 ng  
 RT: 9.59 min Scan# 700  
 Delta R.T. -0.27 min  
 Lab File: BF087231.D  
 Acq: 20 May 2016 18:28

Tgt Ion:165 Resp: 36570  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 44.3 66.5#  
 89 1.8 70.0 105.0#  
 182 0.0 1.8 2.6#



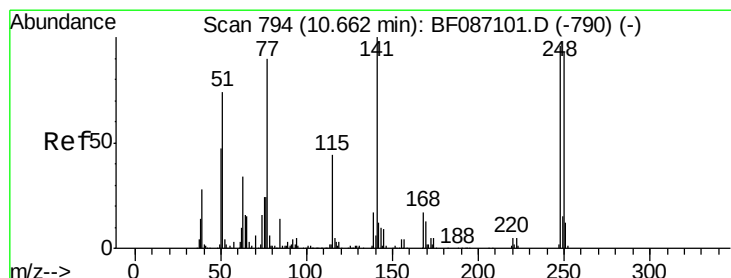
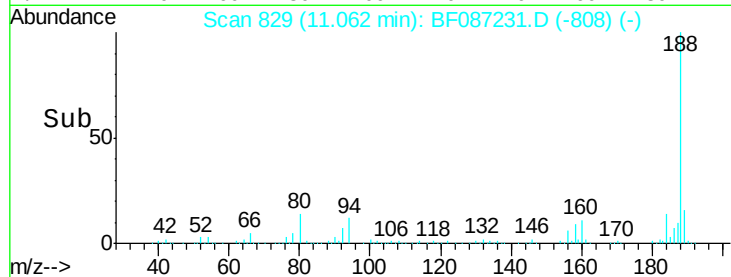
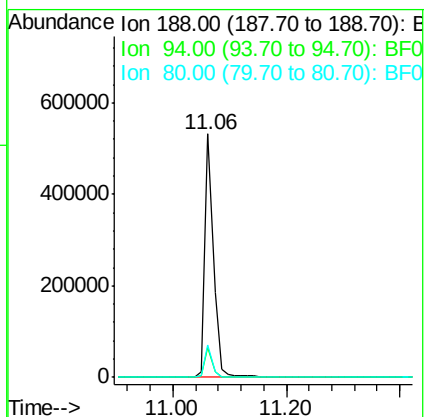
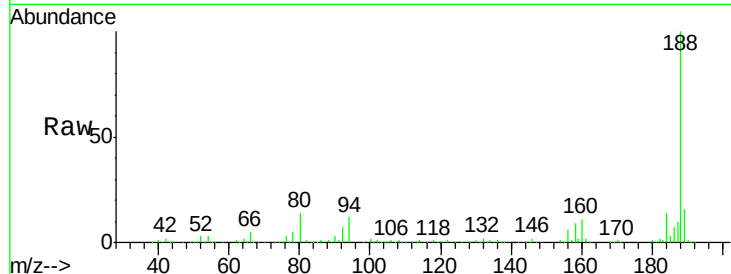




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.06 min Scan# 829  
Delta R.T. -0.06 min  
Lab File: BF087231.D  
Acq: 20 May 2016 18:28

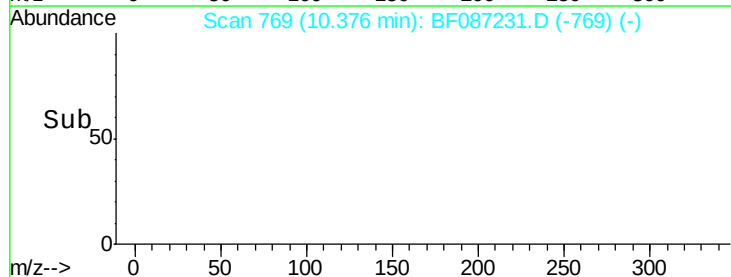
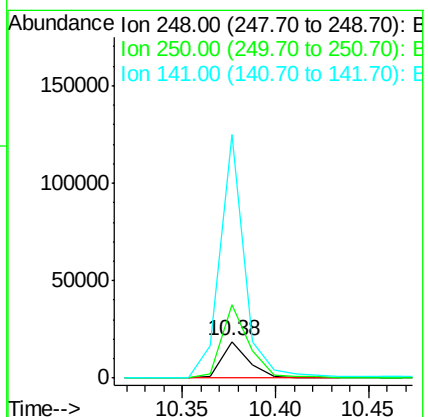
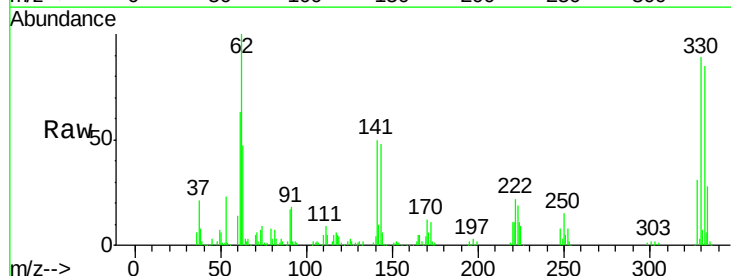
Instrument :  
BNA\_F  
ClientSampleId :  
PB90736BL

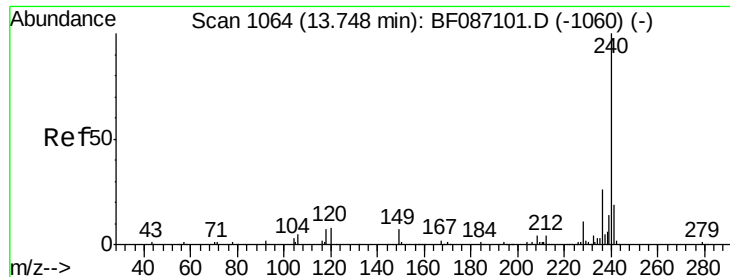
Tgt Ion:188 Resp: 532721  
Ion Ratio Lower Upper  
188 100  
94 12.1 6.8 10.2#  
80 13.5 7.1 10.7#



#66  
4-Bromophenyl-phenylether  
Concen: 3.46 ng  
RT: 10.38 min Scan# 769  
Delta R.T. -0.30 min  
Lab File: BF087231.D  
Acq: 20 May 2016 18:28

Tgt Ion:248 Resp: 18939  
Ion Ratio Lower Upper  
248 100  
250 203.0 78.6 117.8#  
141 668.5 76.0 114.0#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.69 min Scan# 1059

Delta R.T. -0.07 min

Lab File: BF087231.D

Acq: 20 May 2016 18:28

Instrument :

BNA\_F

ClientSampleId :

PB90736BL

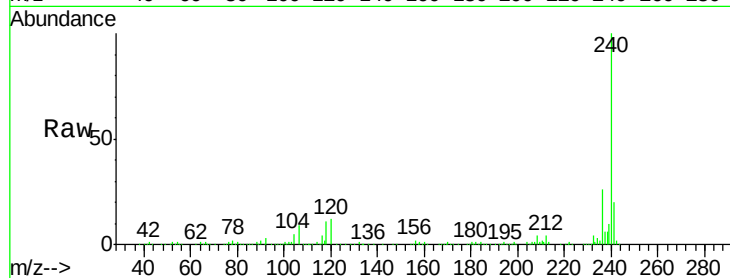
Tgt Ion:240 Resp: 418332

Ion Ratio Lower Upper

240 100

120 12.2 11.2 16.8

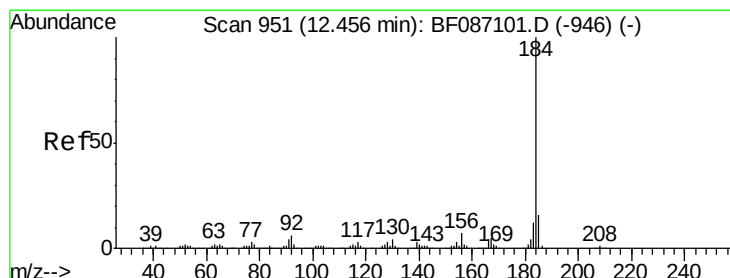
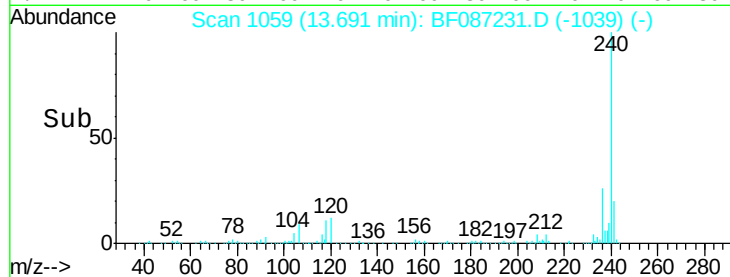
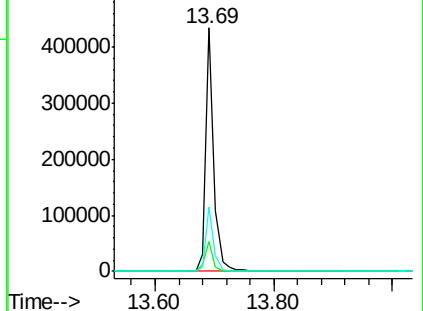
236 26.3 21.2 31.8



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



#76

Benzidine

Concen: 2.28 ng

RT: 12.65 min Scan# 968

Delta R.T. 0.18 min

Lab File: BF087231.D

Acq: 20 May 2016 18:28

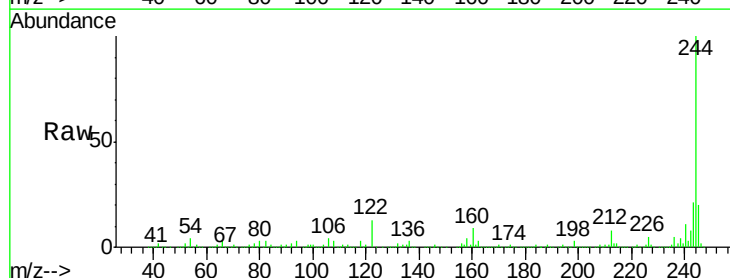
Tgt Ion:184 Resp: 20672

Ion Ratio Lower Upper

184 100

185 18.0 13.6 20.4

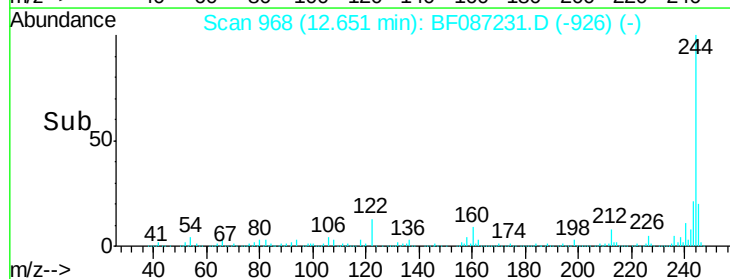
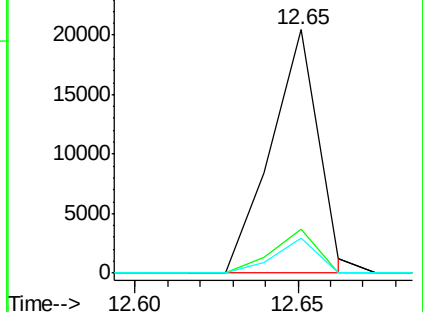
183 14.3 9.8 14.6

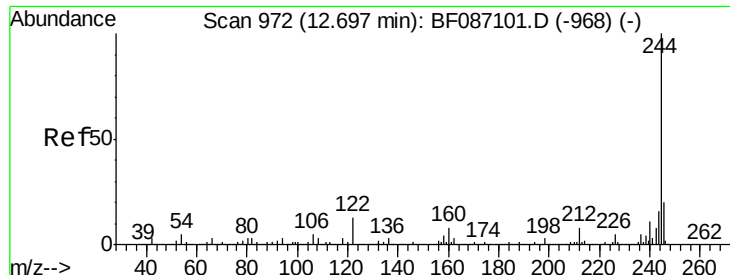


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

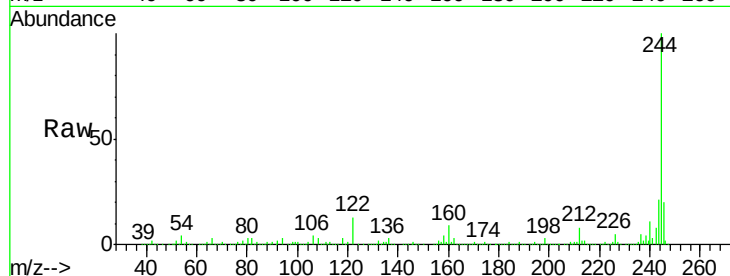




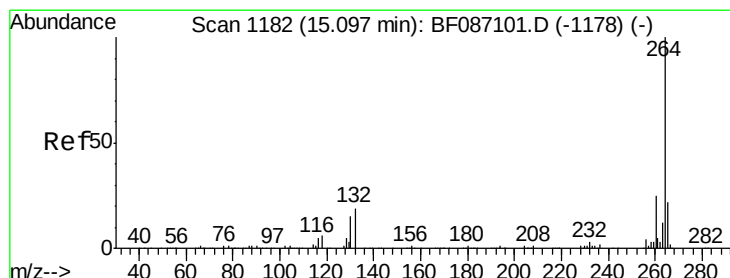
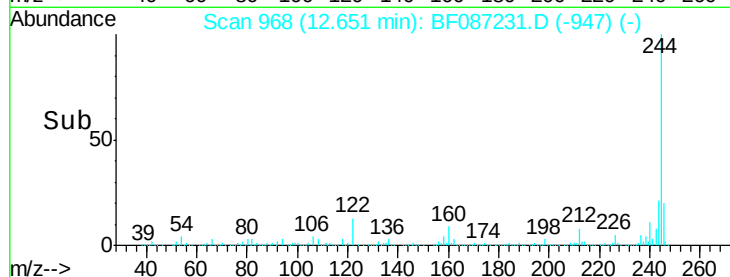
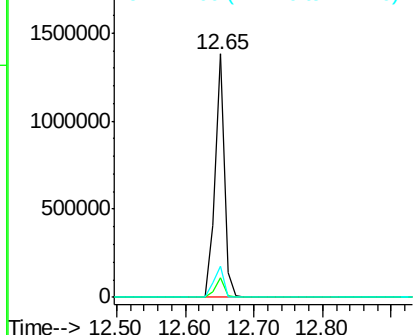
#78  
 Terphenyl-d14  
 Concen: 73.04 ng  
 RT: 12.65 min Scan# 968  
 Delta R.T. -0.06 min  
 Lab File: BF087231.D  
 Acq: 20 May 2016 18:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB90736BL

Tgt Ion:244 Resp: 1350684  
 Ion Ratio Lower Upper  
 244 100  
 212 7.9 6.2 9.2  
 122 12.7 12.0 18.0

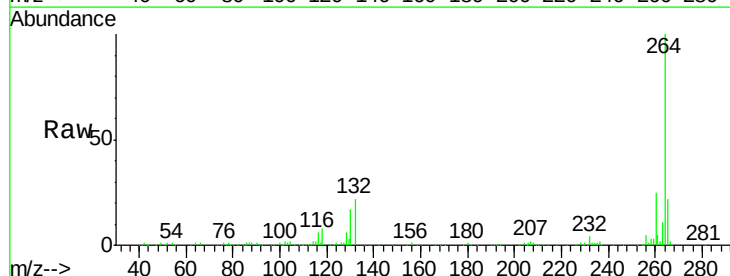


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.04 min Scan# 1177  
 Delta R.T. -0.07 min  
 Lab File: BF087231.D  
 Acq: 20 May 2016 18:28

Tgt Ion:264 Resp: 299620  
 Ion Ratio Lower Upper  
 264 100  
 260 24.7 19.5 29.3  
 265 21.8 17.3 25.9



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

