

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071916\  
 Data File : BF089111.D  
 Acq On : 19 Jul 2016 11:46  
 Operator : UM/SJ  
 Sample : H4018-10  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 19 15:24:55 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 11 18:13:32 2016  
 Response via : Initial Calibration

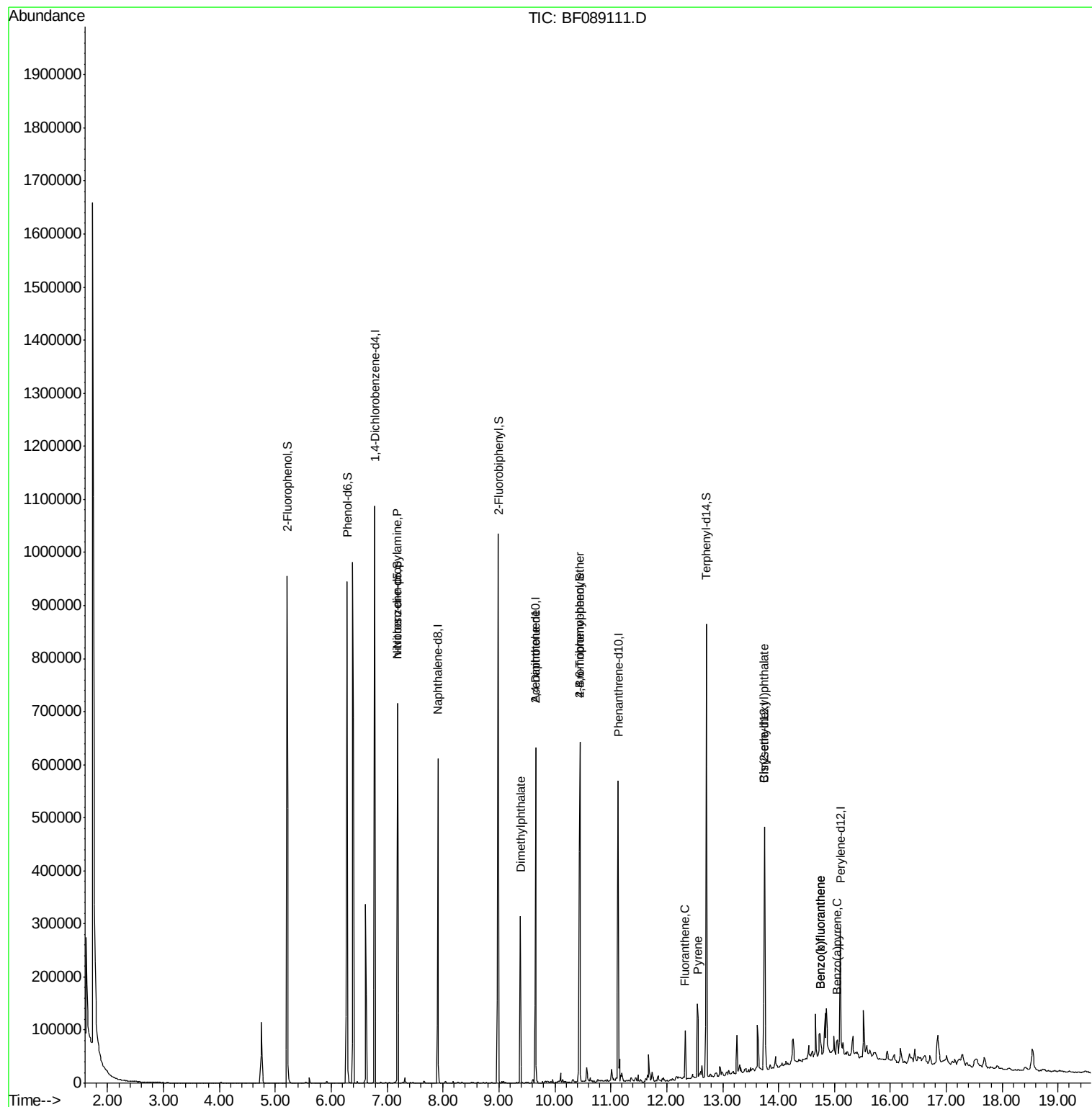
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.78  | 152  | 149226   | 20.00 | ng    | 0.07     |
| 21) Naphthalene-d8             | 7.91  | 136  | 254205   | 20.00 | ng    | -0.09    |
| 38) Acenaphthene-d10           | 9.66  | 164  | 118738   | 20.00 | ng    | -0.09    |
| 63) Phenanthrene-d10           | 11.13 | 188  | 202094   | 20.00 | ng    | -0.09    |
| 75) Chrysene-d12               | 13.75 | 240  | 118146   | 20.00 | ng    | -0.10    |
| 86) Perylene-d12               | 15.11 | 264  | 112188   | 20.00 | ng    | -0.10    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.21  | 112  | 317668   | 31.90 | ng    | -0.08    |
| 7) Phenol-d6                   | 6.28  | 99   | 481280   | 37.41 | ng    | -0.07    |
| 23) Nitrobenzene-d5            | 7.19  | 82   | 253396   | 52.24 | ng    | -0.09    |
| 41) 2,4,6-Tribromophenol       | 10.44 | 330  | 84060    | 76.24 | ng    | -0.09    |
| 44) 2-Fluorobiphenyl           | 8.99  | 172  | 514444   | 68.44 | ng    | -0.08    |
| 78) Terphenyl-d14              | 12.71 | 244  | 337658   | 63.66 | ng    | -0.09    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.19  | 70   | 34294    | 3.97  | ng    | # 74     |
| 49) Dimethylphthalate          | 9.38  | 163  | 111276   | 13.15 | ng    | 100      |
| 56) 2,4-Dinitrotoluene         | 9.66  | 165  | 15326    | 6.25  | ng    | # 39     |
| 66) 4-Bromophenyl-phenylether  | 10.44 | 248  | 6962     | 3.42  | ng    | # 1      |
| 74) Fluoranthene               | 12.33 | 202  | 32444    | 2.90  | ng    | 96       |
| 77) Pyrene                     | 12.56 | 202  | 32140    | 3.21  | ng    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 13.75 | 149  | 16270    | 3.19  | ng    | # 98     |
| 87) Benzo(b)fluoranthene       | 14.74 | 252  | 26467    | 3.76  | ng    | # 90     |
| 88) Benzo(k)fluoranthene       | 14.74 | 252  | 26467    | 4.32  | ng    | 95       |
| 89) Benzo(a)pyrene             | 15.05 | 252  | 14060    | 2.36  | ng    | 97       |

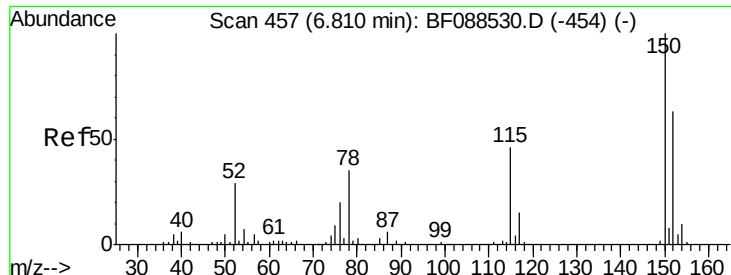
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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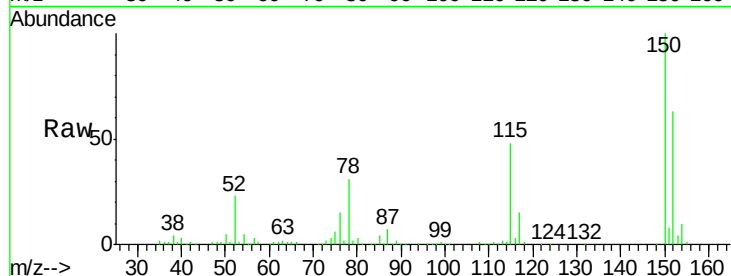


#1

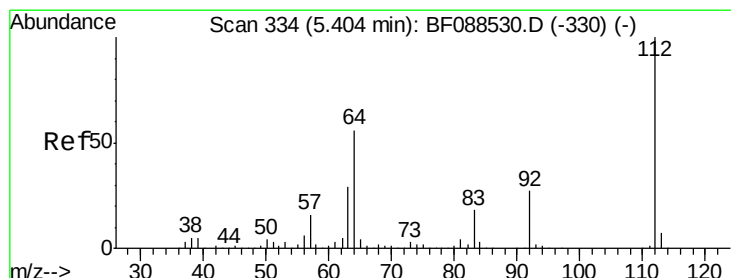
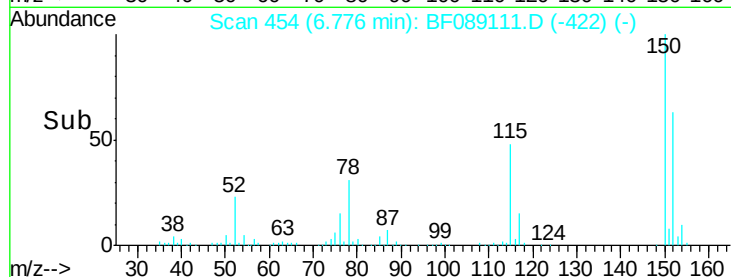
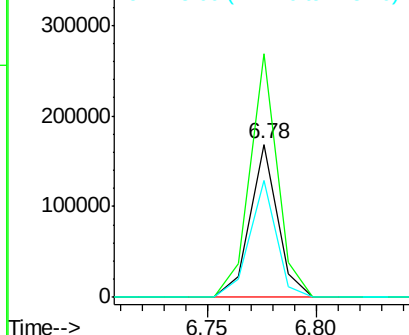
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.78 min Scan# 454  
Delta R.T. 0.07 min  
Lab File: BF089111.D  
Acq: 19 Jul 2016 11:46

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 149226  
Ion Ratio Lower Upper  
152 100  
150 158.7 123.8 185.6  
115 76.2 39.6 59.4#



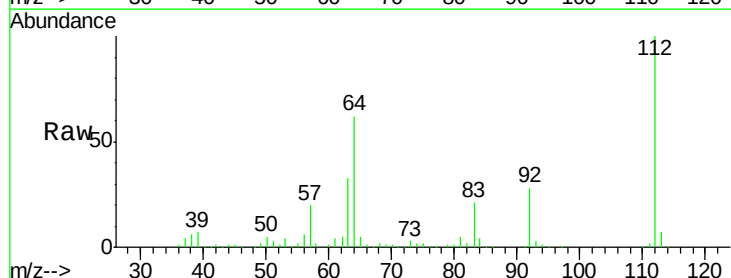
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



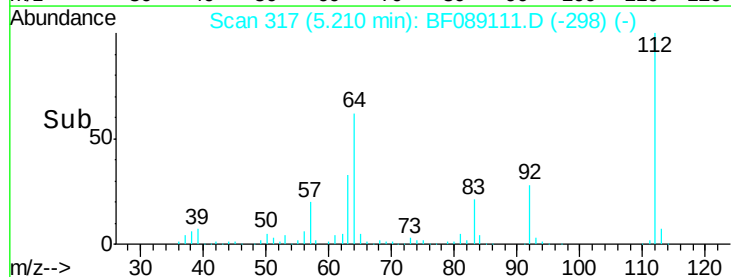
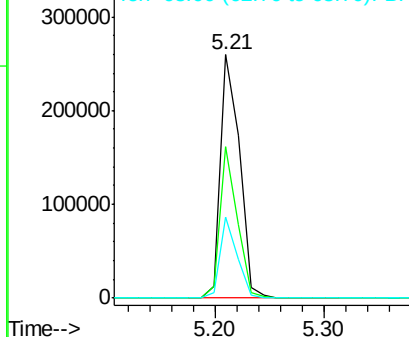
#5

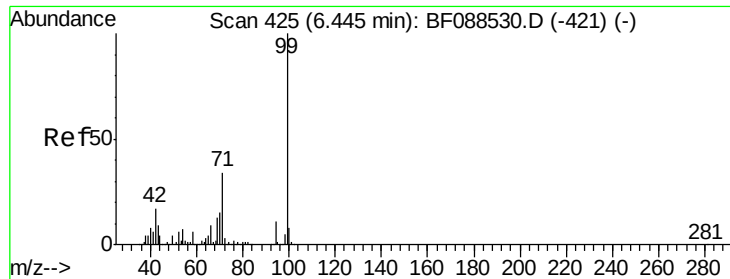
2-Fluorophenol  
Concen: 31.90 ng  
RT: 5.21 min Scan# 317  
Delta R.T. -0.08 min  
Lab File: BF089111.D  
Acq: 19 Jul 2016 11:46

Tgt Ion:112 Resp: 317668  
Ion Ratio Lower Upper  
112 100  
64 62.3 42.2 63.2  
63 33.5 21.8 32.8#



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: 37.41 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.07 min

Lab File: BF089111.D

Acq: 19 Jul 2016 11:46

Instrument :

BNA\_F

ClientSampled :

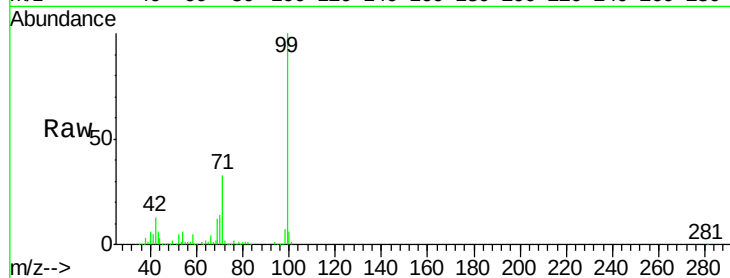
Tot Ion: 99 Resp: 481280

Ion Ratio Lower Upper

99 100

42 13.4 12.2 18.2

71 33.0 23.4 35.0



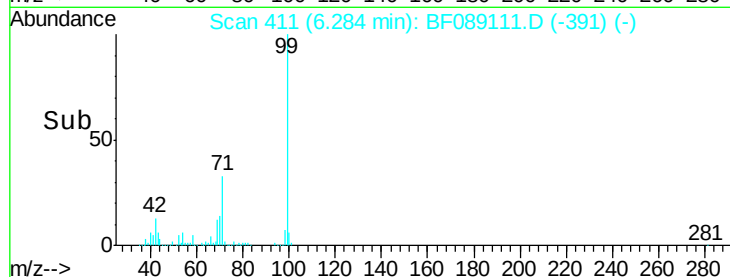
Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

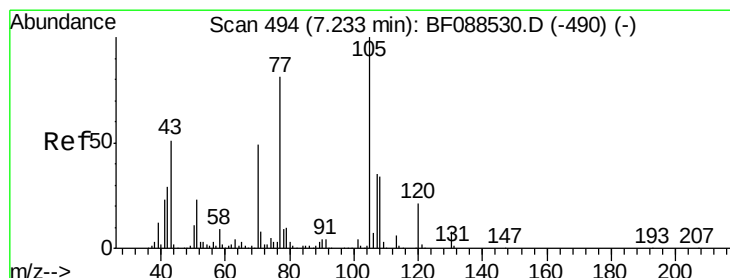
Ion 71.00 (70.70 to 71.70): BF0

6.28

Time-->



Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 3.97 ng

RT: 7.19 min Scan# 490

Delta R.T. 0.05 min

Lab File: BF089111.D

Acq: 19 Jul 2016 11:46

Tgt Ion: 70 Resp: 34294

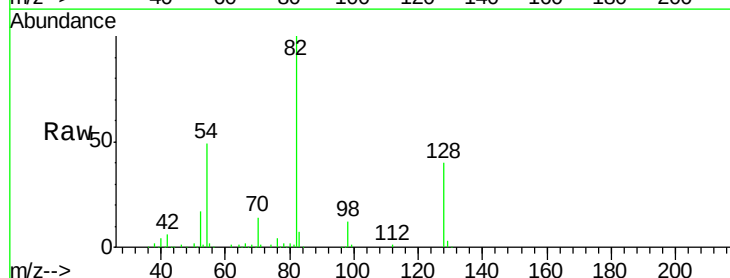
Ion Ratio Lower Upper

70 100

42 45.3 49.6 74.4#

101 0.0 7.1 10.7#

130 2.0 15.4 23.2#



Abundance Ion 70.00 (69.70 to 70.70): BF0

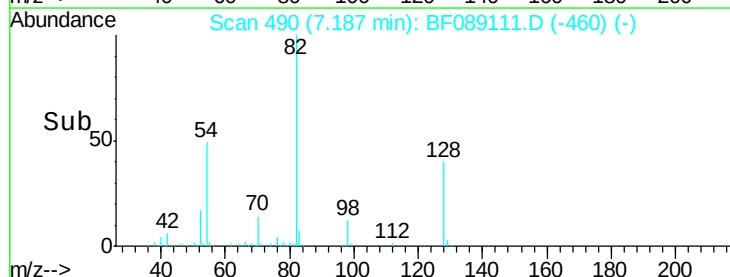
Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

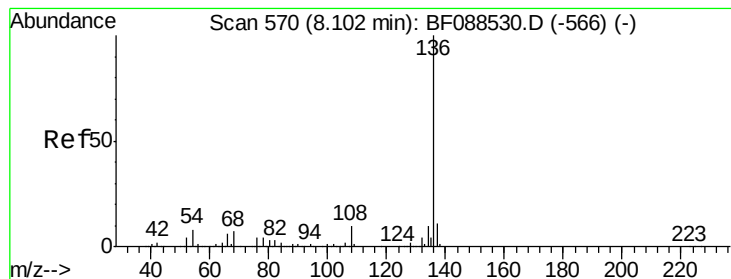
Ion 130.00 (129.70 to 130.70): BF0

7.19

Time-->



Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 553

Delta R.T. -0.09 min

Lab File: BF089111.D

Acq: 19 Jul 2016 11:46

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 254205

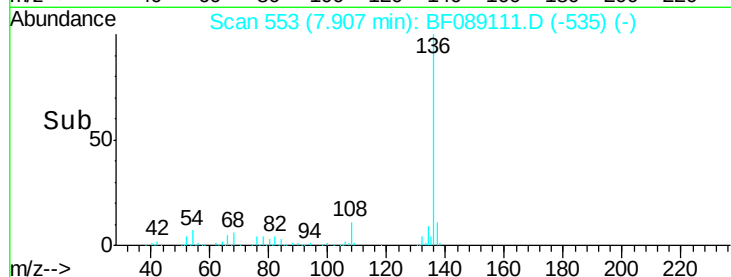
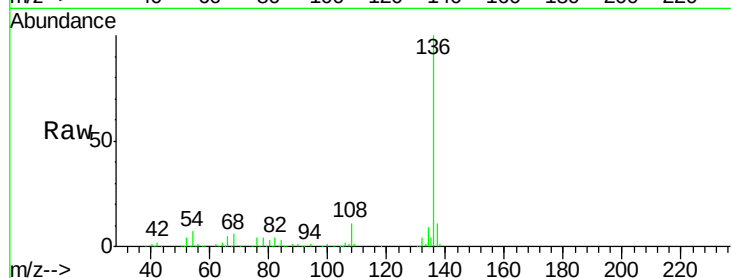
Ion Ratio Lower Upper

136 100

137 10.8 9.1 13.7

54 7.1 6.6 10.0

68 5.8 5.1 7.7

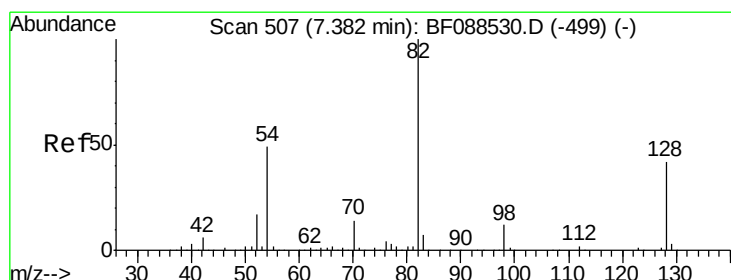
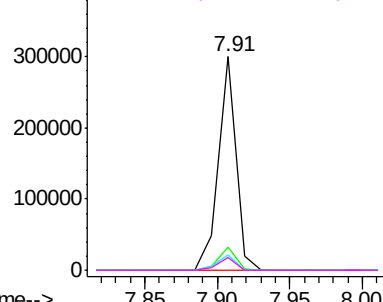


Abundance Ion 136.00 (135.70 to 136.70): E

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: 52.24 ng

RT: 7.19 min Scan# 490

Delta R.T. -0.09 min

Lab File: BF089111.D

Acq: 19 Jul 2016 11:46

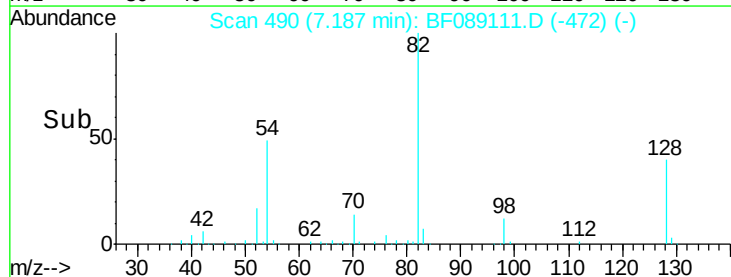
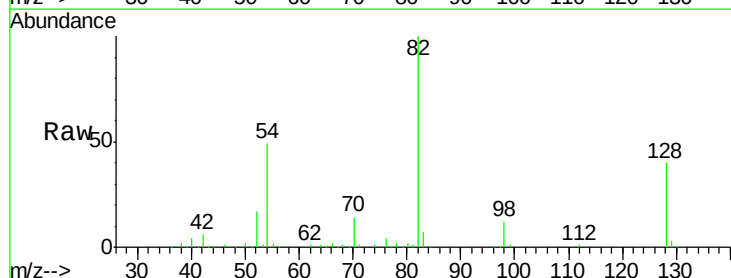
Tgt Ion: 82 Resp: 253396

Ion Ratio Lower Upper

82 100

128 39.7 35.9 53.9

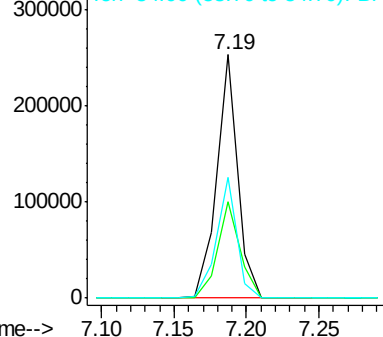
54 49.4 40.9 61.3

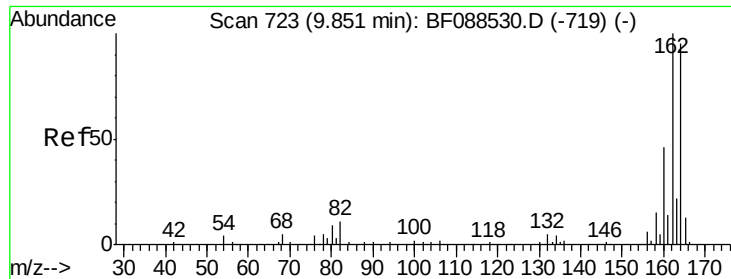


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

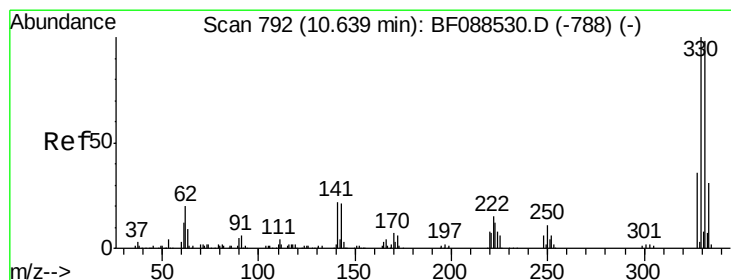
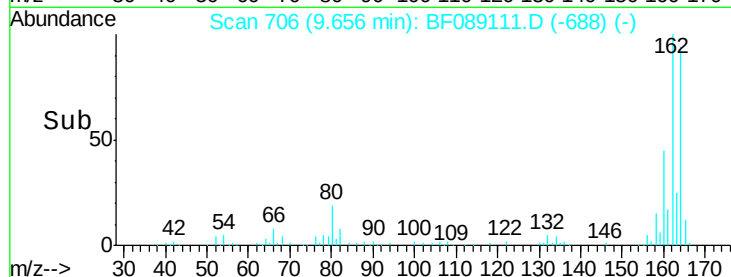
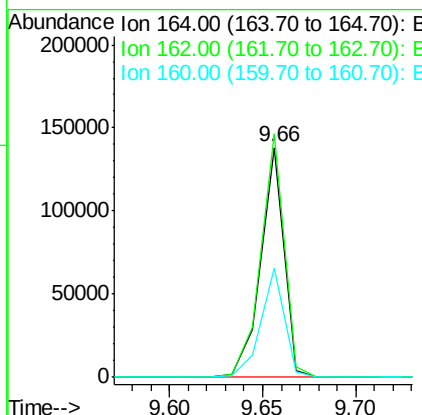
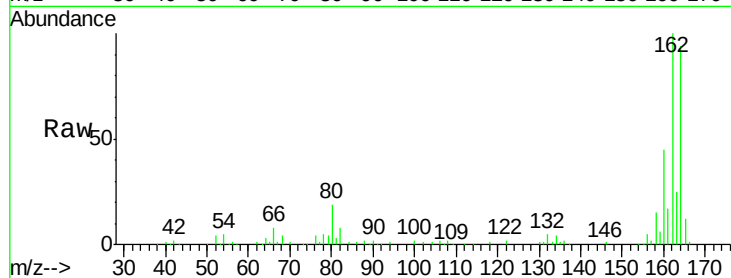




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.66 min Scan# 706  
Delta R.T. -0.09 min  
Lab File: BF089111.D  
Acq: 19 Jul 2016 11:46

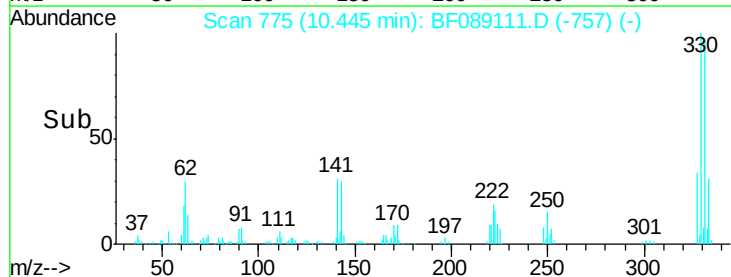
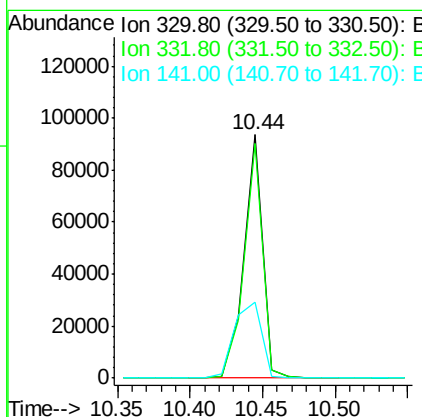
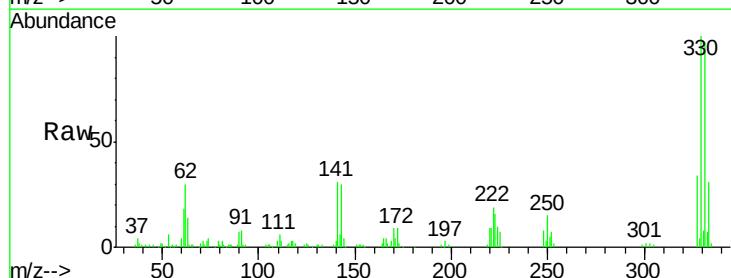
Instrument :  
BNA\_F  
ClientSampleId :

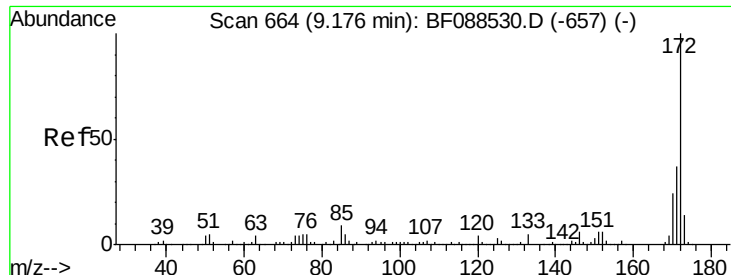
Tot Ion:164 Resp: 118738  
Ion Ratio Lower Upper  
164 100  
162 105.9 85.4 128.2  
160 47.5 39.5 59.3



#41  
2,4,6-Tribromophenol  
Concen: 76.24 ng  
RT: 10.44 min Scan# 775  
Delta R.T. -0.09 min  
Lab File: BF089111.D  
Acq: 19 Jul 2016 11:46

Tgt Ion:330 Resp: 84060  
Ion Ratio Lower Upper  
330 100  
332 96.1 0.0 0.0#  
141 45.1 0.0 0.0#

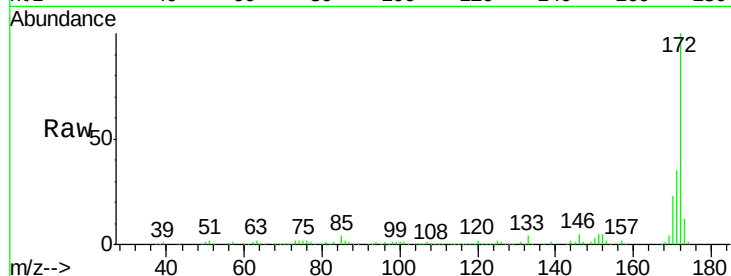




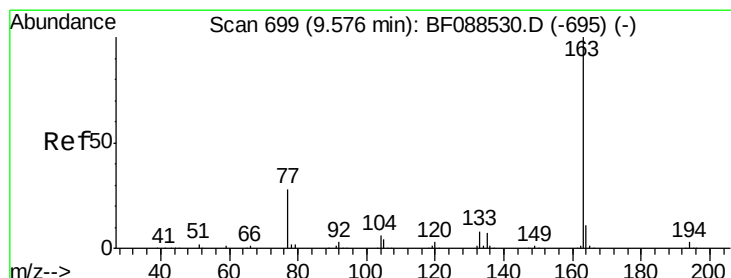
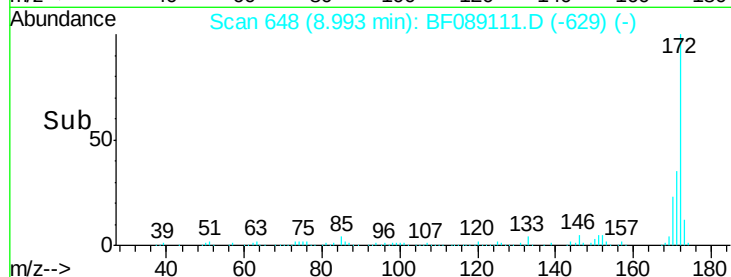
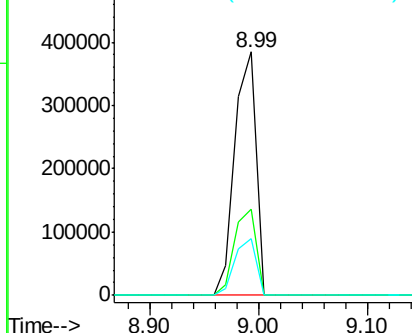
#44  
2-Fluorobiphenyl  
Concen: 68.44 ng  
RT: 8.99 min Scan# 648  
Delta R.T. -0.08 min  
Lab File: BF089111.D  
Acq: 19 Jul 2016 11:46

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 514444  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.6 43.0  
170 23.5 19.2 28.8

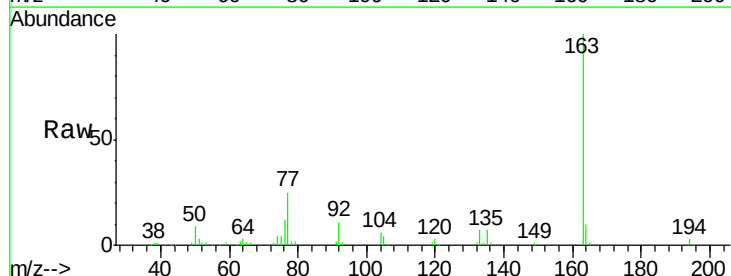


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

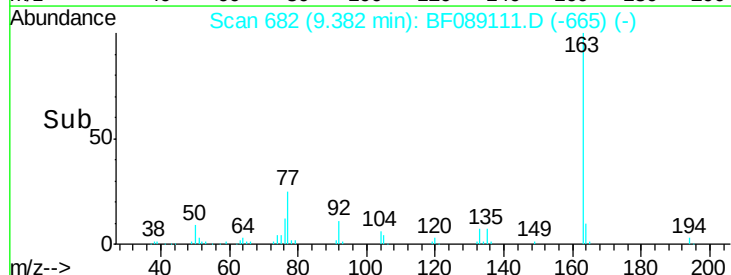
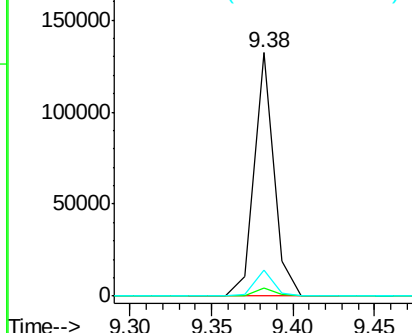


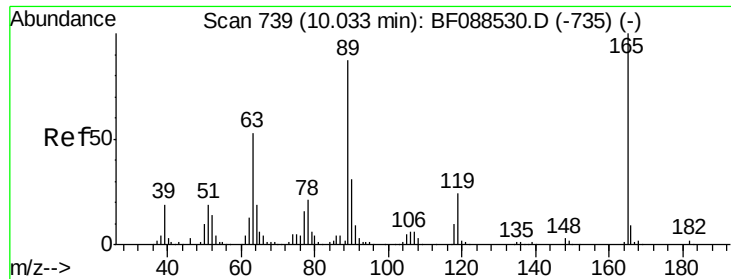
#49  
Dimethylphthalate  
Concen: 13.15 ng  
RT: 9.38 min Scan# 682  
Delta R.T. -0.10 min  
Lab File: BF089111.D  
Acq: 19 Jul 2016 11:46

Tgt Ion:163 Resp: 111276  
Ion Ratio Lower Upper  
163 100  
194 3.1 2.8 4.2  
164 10.5 8.3 12.5



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

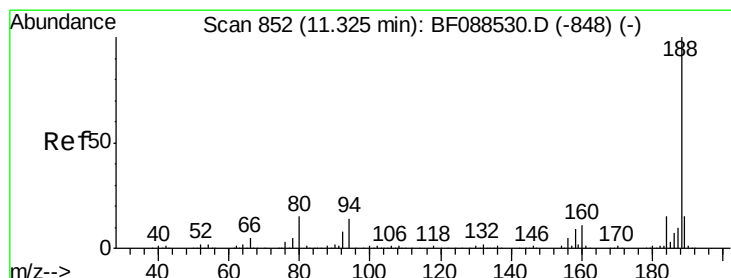
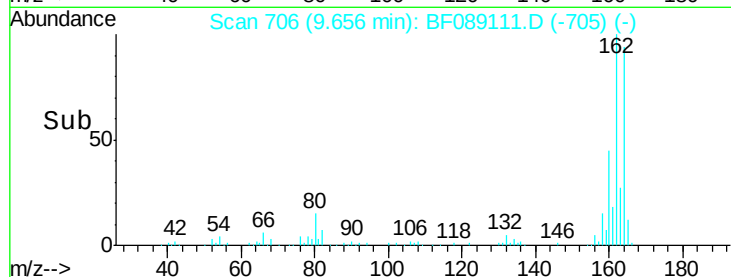
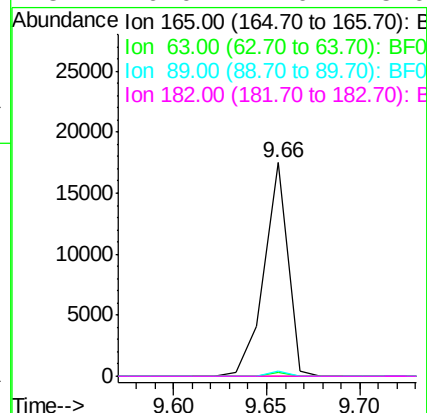
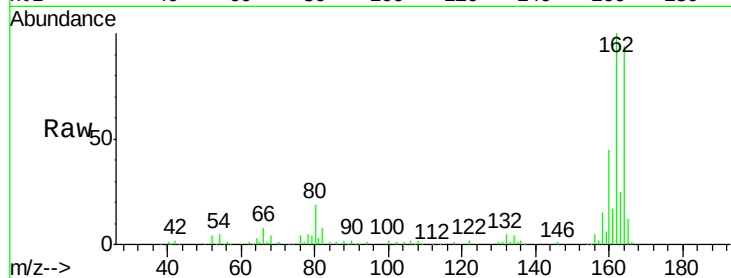




#56  
 2,4-Dinitrotoluene  
 Concen: 6.25 ng  
 RT: 9.66 min Scan# 706  
 Delta R.T. -0.29 min  
 Lab File: BF089111.D  
 Acq: 19 Jul 2016 11:46

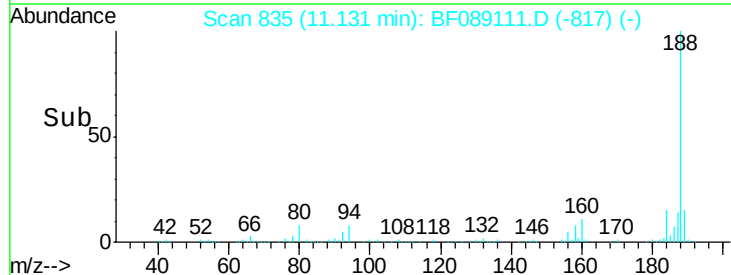
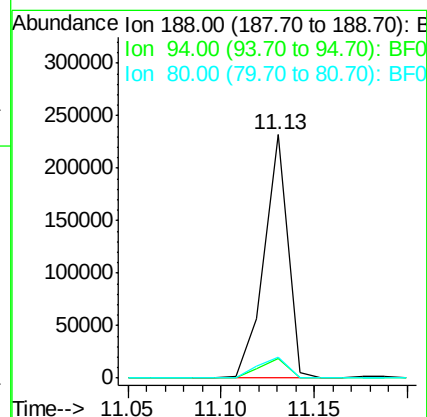
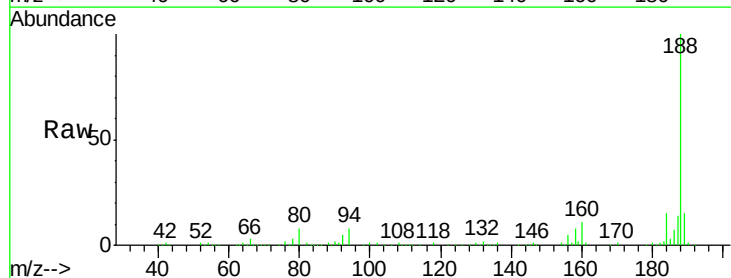
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.9   | 22.0  | 33.0# |
| 89      | 2.1   | 41.1  | 61.7# |
| 182     | 0.0   | 2.0   | 3.0#  |

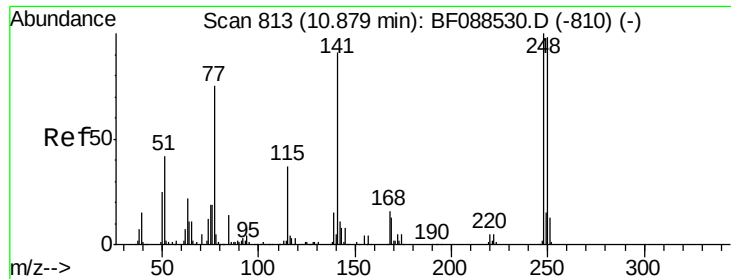


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.13 min Scan# 835  
 Delta R.T. -0.09 min  
 Lab File: BF089111.D  
 Acq: 19 Jul 2016 11:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.0   | 9.0   | 13.6# |
| 80      | 8.5   | 10.0  | 15.0# |







#66

4-Bromophenyl-phenylether

Concen: 3.42 ng

RT: 10.44 min Scan# 775

Delta R.T. -0.33 min

Lab File: BF089111.D

Acq: 19 Jul 2016 11:46

Instrument :

BNA\_F

ClientSampleId :

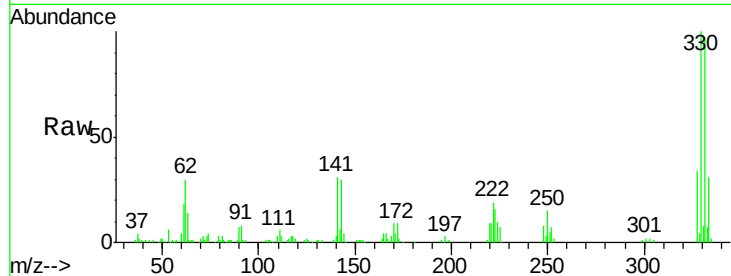
Tot Ion:248 Resp: 6962

Ion Ratio Lower Upper

248 100

250 194.2 77.1 115.7#

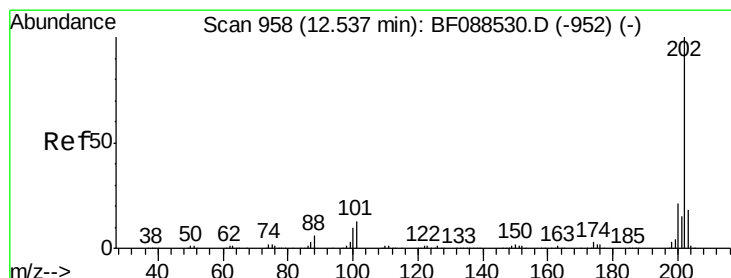
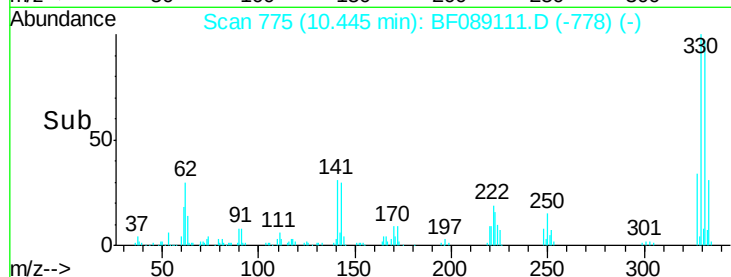
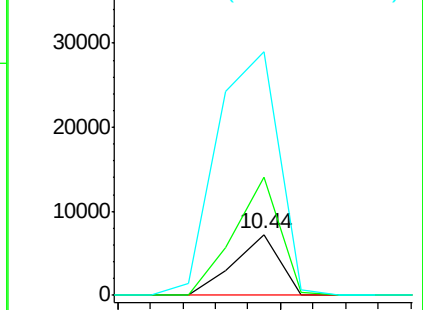
141 399.5 50.6 76.0#



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



#74

Fluoranthene

Concen: 2.90 ng

RT: 12.33 min Scan# 940

Delta R.T. -0.09 min

Lab File: BF089111.D

Acq: 19 Jul 2016 11:46

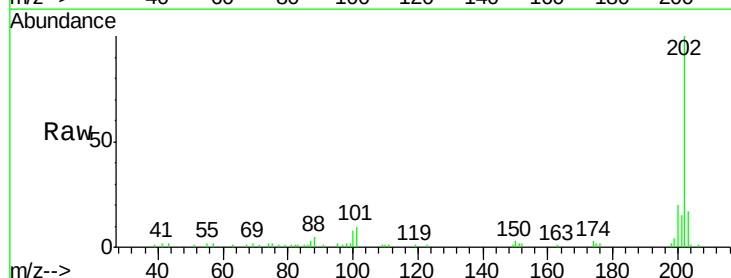
Tgt Ion:202 Resp: 32444

Ion Ratio Lower Upper

202 100

101 10.4 0.0 33.1

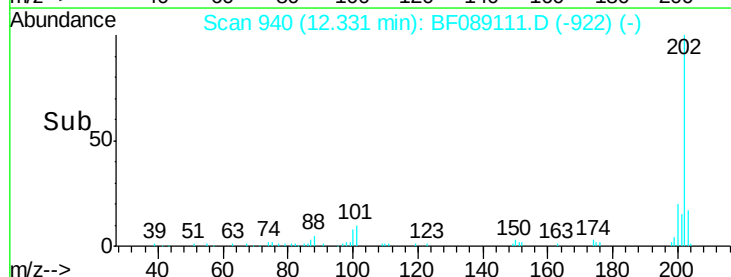
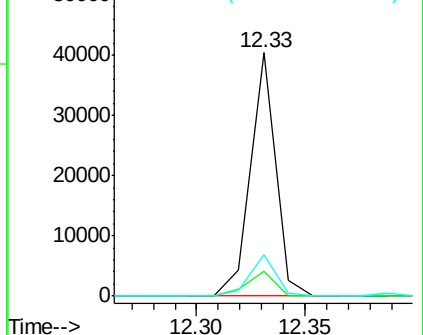
203 17.1 0.0 38.1

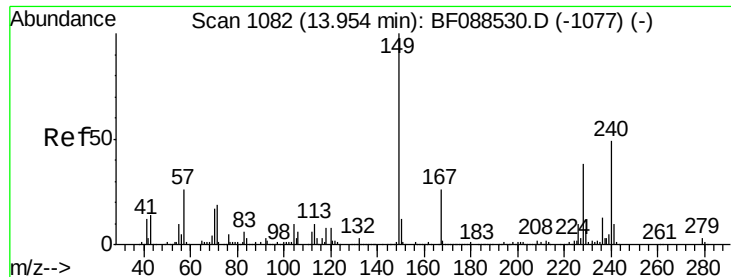


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.75 min Scan# 1064

Delta R.T. -0.10 min

Lab File: BF089111.D

Acq: 19 Jul 2016 11:46

Instrument :

BNA\_F

ClientSampleId :

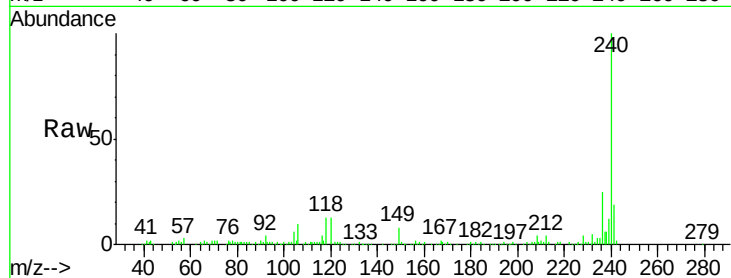
Tot Ion:240 Resp: 118146

Ion Ratio Lower Upper

240 100

120 12.7 6.8 10.2#

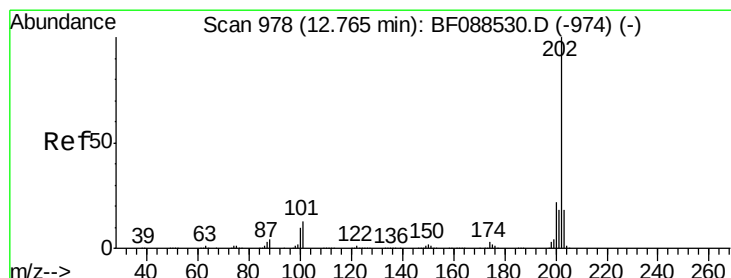
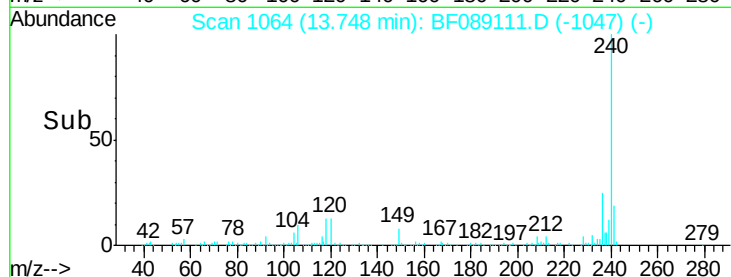
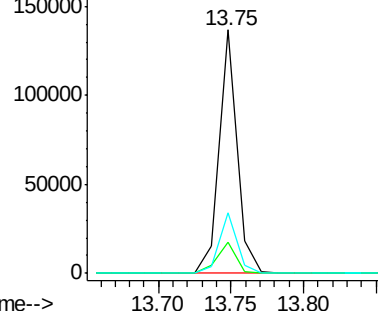
236 25.1 20.2 30.2



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: 3.21 ng

RT: 12.56 min Scan# 960

Delta R.T. -0.09 min

Lab File: BF089111.D

Acq: 19 Jul 2016 11:46

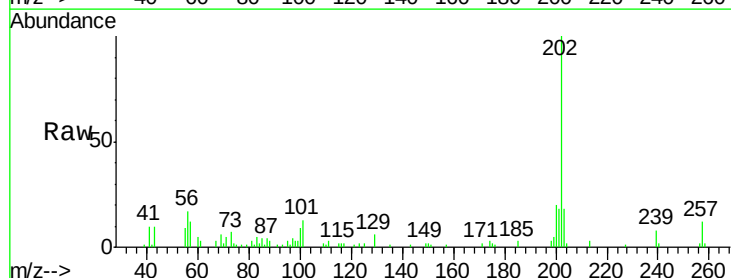
Tgt Ion:202 Resp: 32140

Ion Ratio Lower Upper

202 100

200 20.3 17.4 26.2

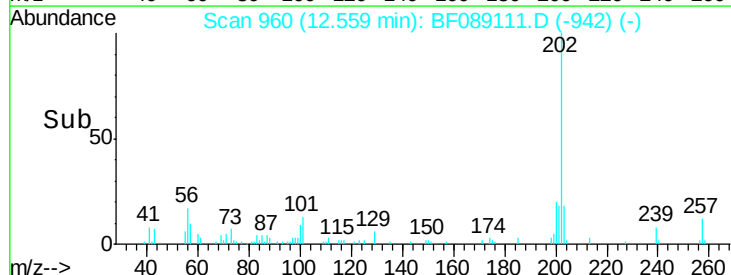
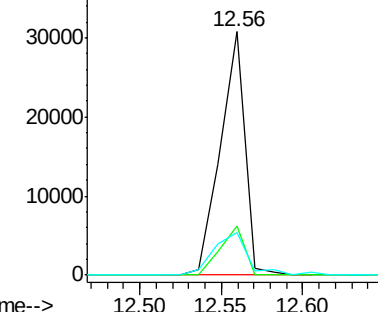
203 17.6 14.5 21.7

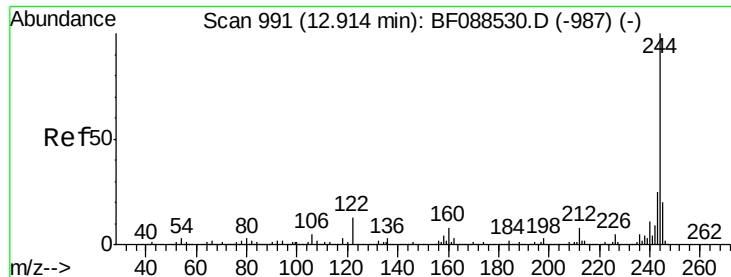


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

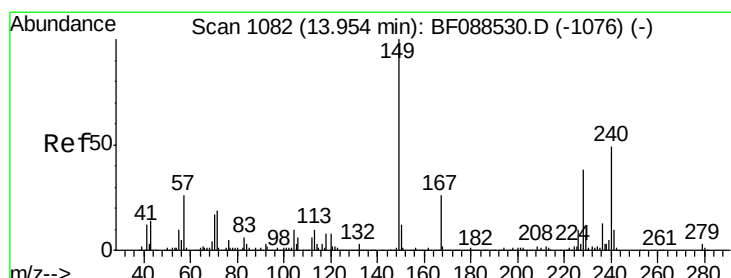
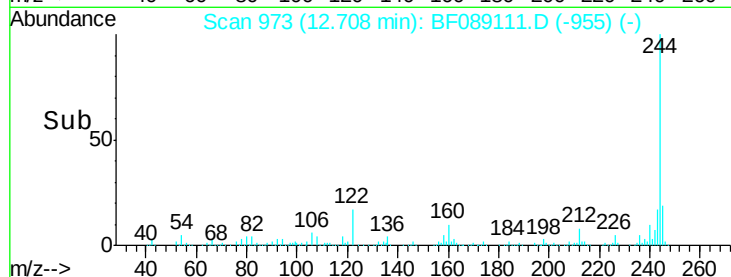
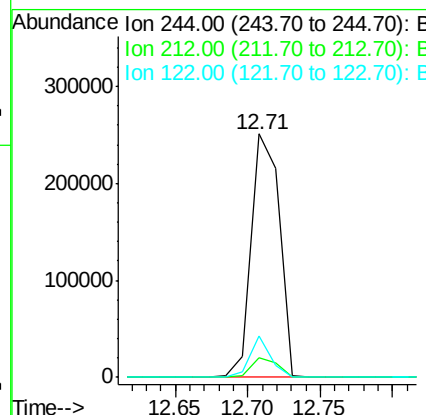
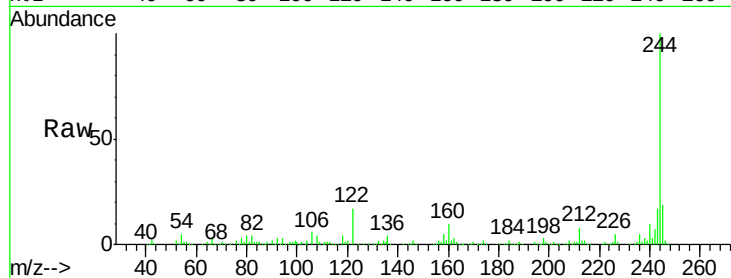




#78  
 Terphenyl-d14  
 Concen: 63.66 ng  
 RT: 12.71 min Scan# 973  
 Delta R.T. -0.09 min  
 Lab File: BF089111.D  
 Acq: 19 Jul 2016 11:46

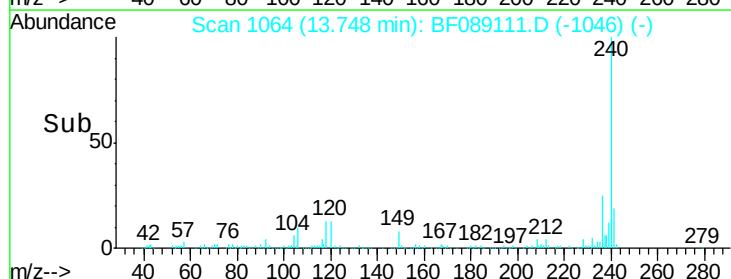
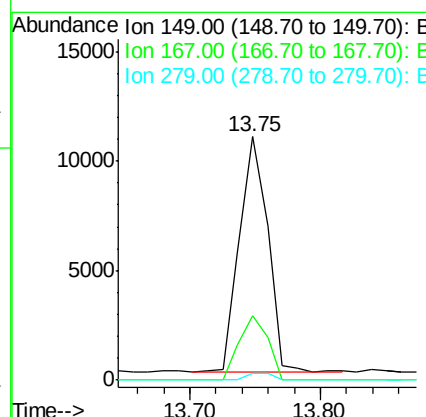
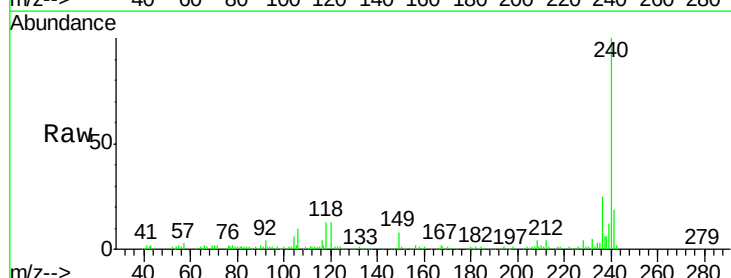
Instrument :  
 BNA\_F  
 ClientSampleId :

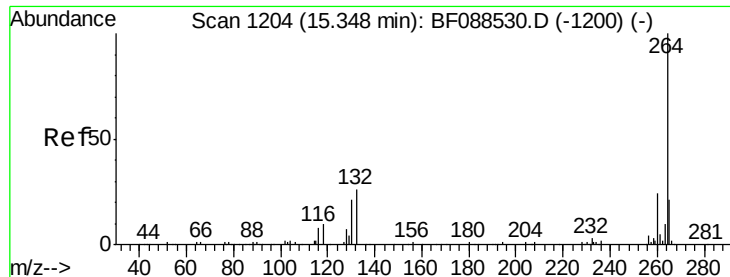
Tot Ion:244 Resp: 337658  
 Ion Ratio Lower Upper  
 244 100  
 212 8.2 6.0 9.0  
 122 16.9 11.2 16.8#



#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 3.19 ng  
 RT: 13.75 min Scan# 1064  
 Delta R.T. -0.09 min  
 Lab File: BF089111.D  
 Acq: 19 Jul 2016 11:46

Tgt Ion:149 Resp: 16270  
 Ion Ratio Lower Upper  
 149 100  
 167 26.6 20.5 30.7  
 279 3.0 2.0 3.0#

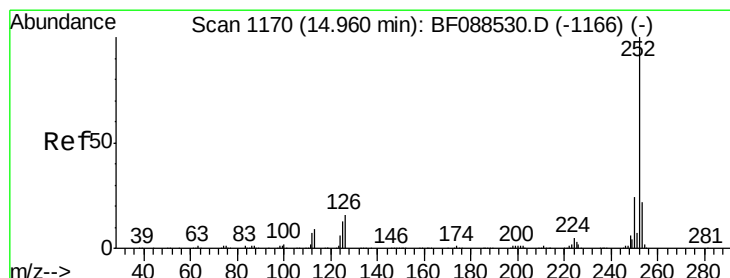
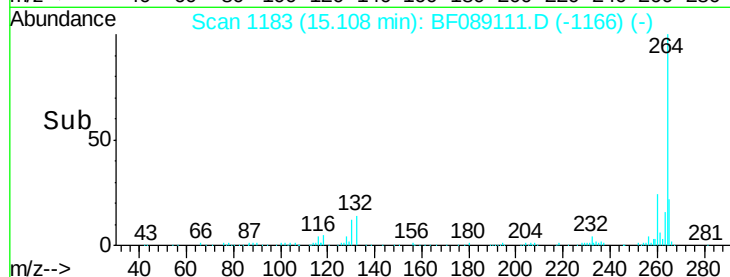
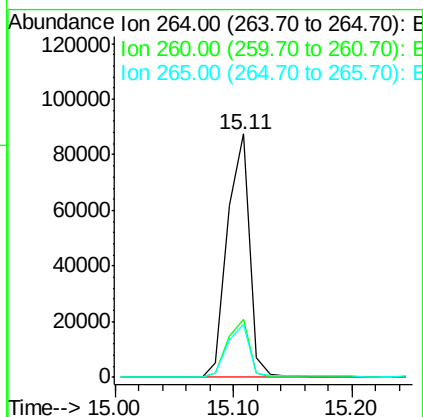
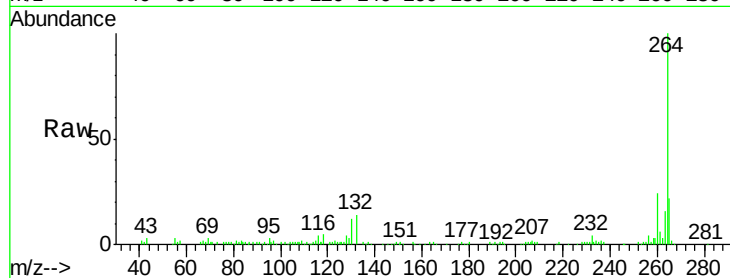




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.11 min Scan# 1183  
Delta R.T. -0.10 min  
Lab File: BF089111.D  
Acq: 19 Jul 2016 11:46

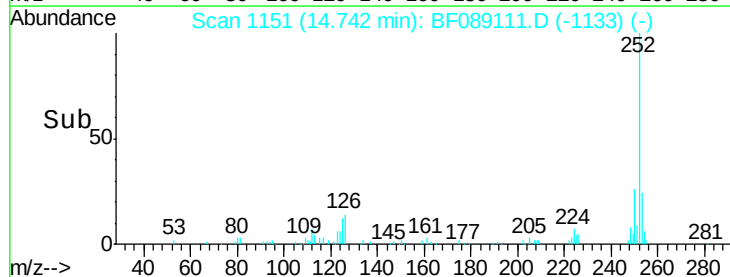
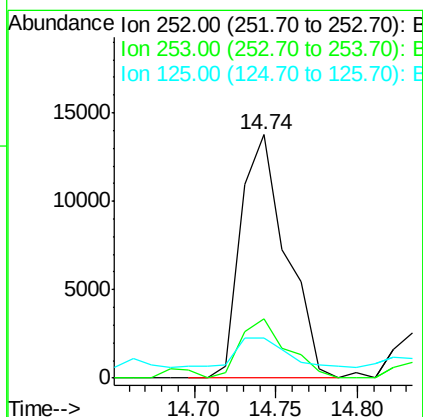
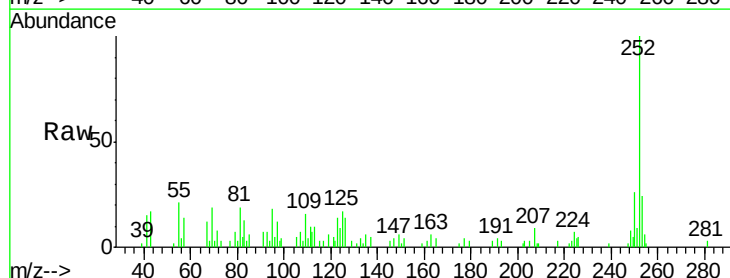
Instrument :  
BNA\_F  
ClientSampleId :

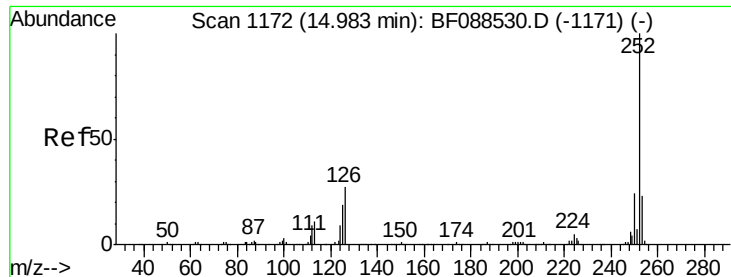
Tot Ion:264 Resp: 112188  
Ion Ratio Lower Upper  
264 100  
260 23.9 19.2 28.8  
265 21.6 16.9 25.3



#87  
Benzo(b)fluoranthene  
Concen: 3.76 ng  
RT: 14.74 min Scan# 1151  
Delta R.T. -0.09 min  
Lab File: BF089111.D  
Acq: 19 Jul 2016 11:46

Tgt Ion:252 Resp: 26467  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.4 26.2  
125 16.6 7.1 10.7#

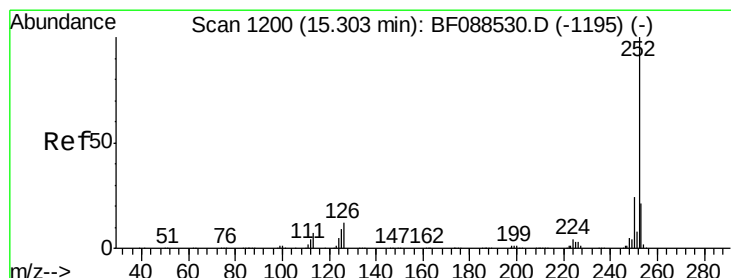
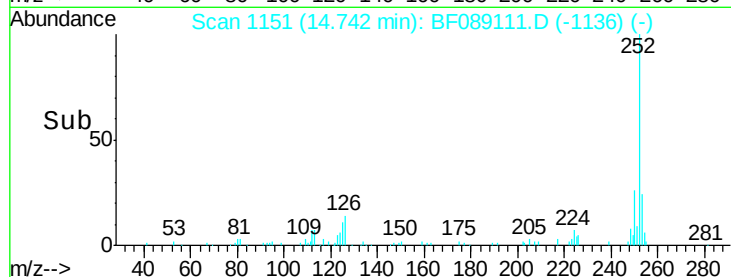
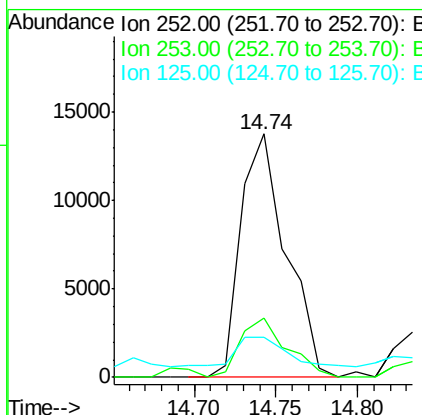
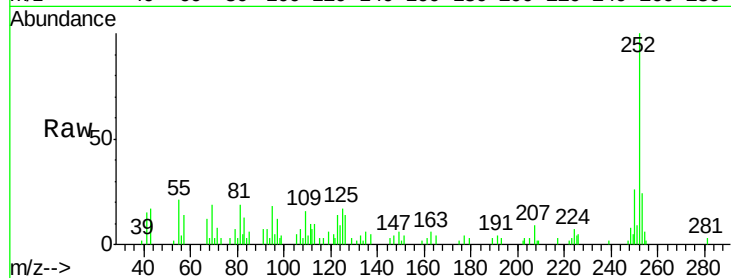




#88  
Benzo(k)fluoranthene  
Concen: 4.32 ng  
RT: 14.74 min Scan# 1151  
Delta R.T. -0.13 min  
Lab File: BF089111.D  
Acq: 19 Jul 2016 11:46

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 26467  
Ion Ratio Lower Upper  
252 100  
253 24.2 18.0 27.0  
125 16.6 11.2 16.8



#89  
Benzo(a)pyrene  
Concen: 2.36 ng  
RT: 15.05 min Scan# 1178  
Delta R.T. -0.11 min  
Lab File: BF089111.D  
Acq: 19 Jul 2016 11:46

Tgt Ion:252 Resp: 14060  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.9 26.9  
125 15.4 12.5 18.7

