

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF073115\  
 Data File : BF080744.D  
 Acq On : 31 Jul 2015 20:23  
 Operator : TP/UM  
 Sample : PB84784BL  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB84784BL

Quant Time: Aug 01 01:54:24 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF073015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 31 01:45:22 2015  
 Response via : Initial Calibration

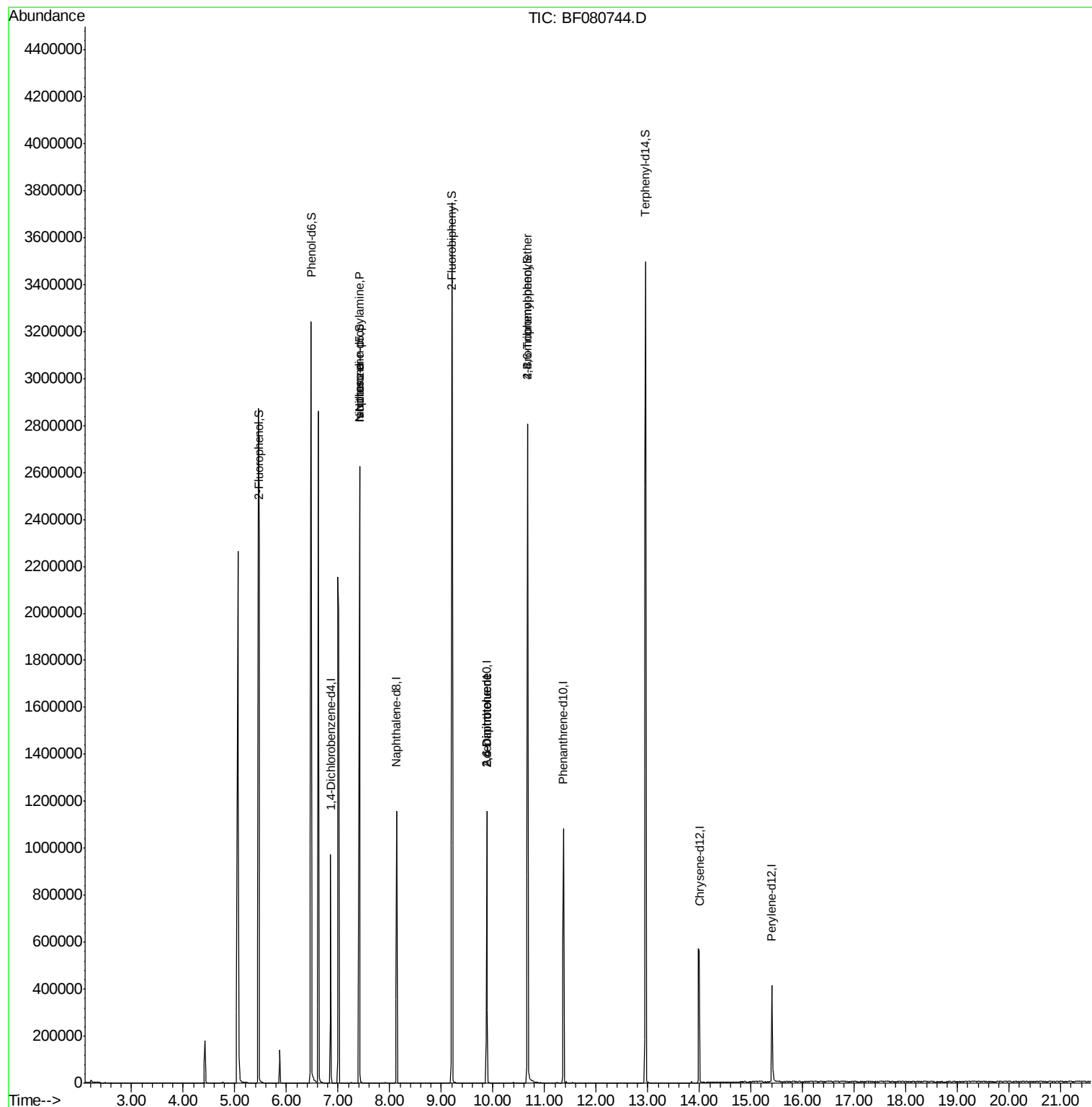
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 132557   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 498847   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.88  | 164  | 238638   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.37 | 188  | 478161   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.00 | 240  | 305393   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.40 | 264  | 254373   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 996088   | 128.91    | ng    | 0.02     |
| 7) Phenol-d6                   | 6.48  | 99   | 1143489  | 108.70    | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.41  | 82   | 903832   | 87.74     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.67 | 330  | 325076   | 131.28    | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.21  | 172  | 1353269  | 84.60     | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.96 | 244  | 1461901  | 90.54     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.48  | 77   | 1620     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 124087   | 17.52     | ng    | # 76     |
| 25) Isophorone                 | 7.41  | 82   | 882705   | 48.18     | ng    | # 71     |
| 50) 2,6-Dinitrotoluene         | 9.88  | 165  | 30207    | 8.46      | ng    | # 15     |
| 56) 2,4-Dinitrotoluene         | 9.88  | 165  | 30208    | 6.45      | ng    | # 17     |
| 66) 4-Bromophenyl-phenylether  | 10.67 | 248  | 21115    | 4.28      | ng    | # 1      |

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

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF073115\  
Data File : BF080744.D  
Acq On : 31 Jul 2015 20:23  
Operator : TP/UM  
Sample : PB84784BL  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB84784BL

Quant Time: Aug 01 01:54:24 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF073015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 31 01:45:22 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.85 min Scan# 417

Delta R.T. -0.00 min

Lab File: BF080744.D

Acq: 31 Jul 2015 20:23

Instrument :

BNA\_F

ClientSampleId :

PB84784BL

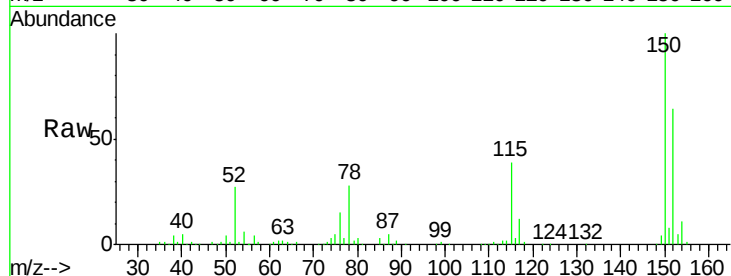
Tgt Ion:152 Resp: 132557

Ion Ratio Lower Upper

152 100

150 157.3 129.6 194.4

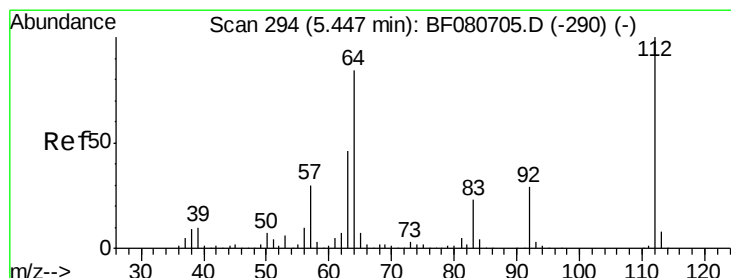
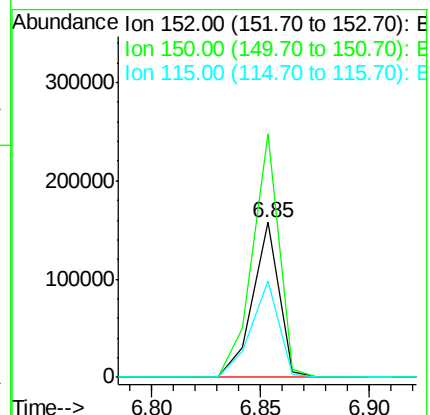
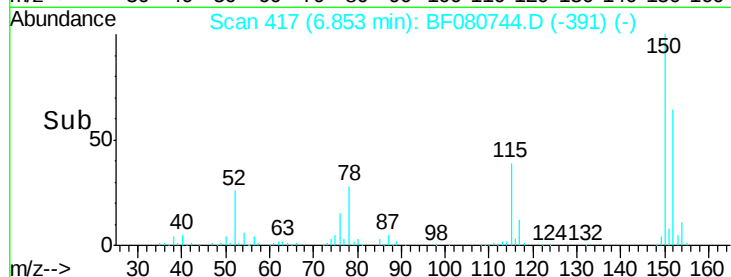
115 62.0 56.6 85.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 128.91 ng

RT: 5.47 min Scan# 296

Delta R.T. 0.02 min

Lab File: BF080744.D

Acq: 31 Jul 2015 20:23

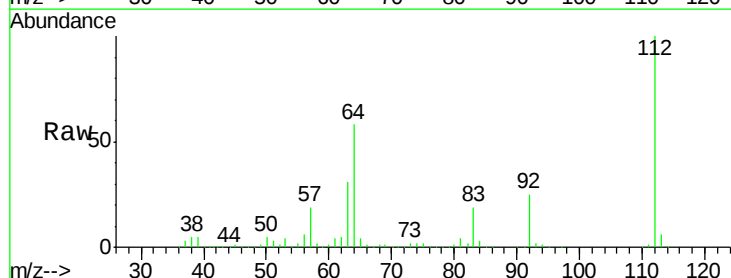
Tgt Ion:112 Resp: 996088

Ion Ratio Lower Upper

112 100

64 57.5 66.8 100.2#

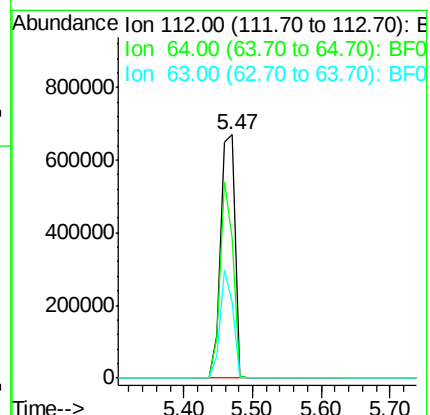
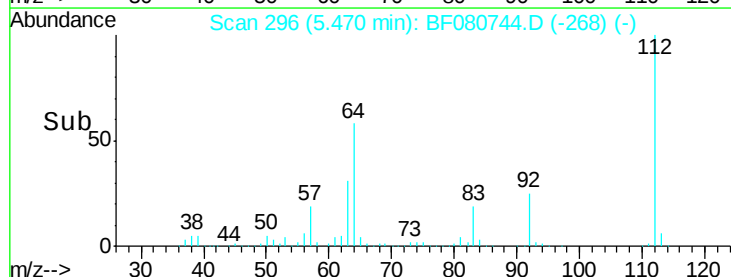
63 31.4 36.7 55.1#

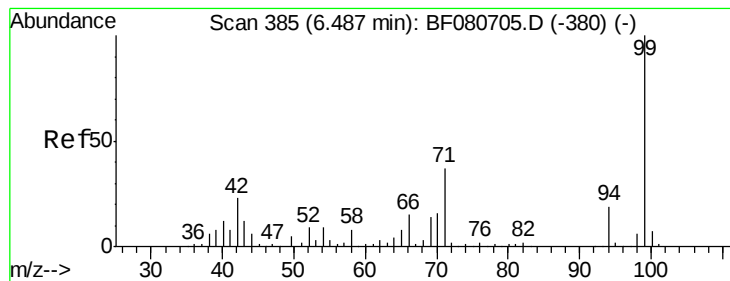


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 108.70 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF080744.D

Acq: 31 Jul 2015 20:23

Instrument :

BNA\_F

ClientSampleId :

PB84784BL

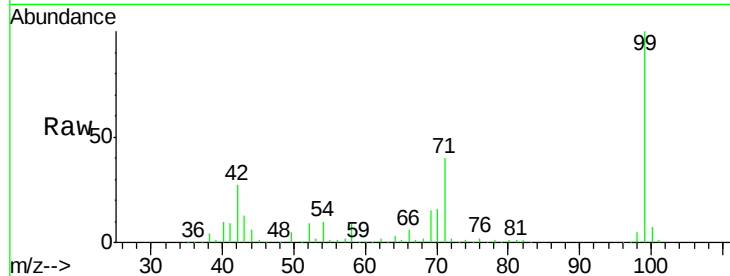
Tgt Ion: 99 Resp: 1143489

Ion Ratio Lower Upper

99 100

42 26.6 18.2 27.2

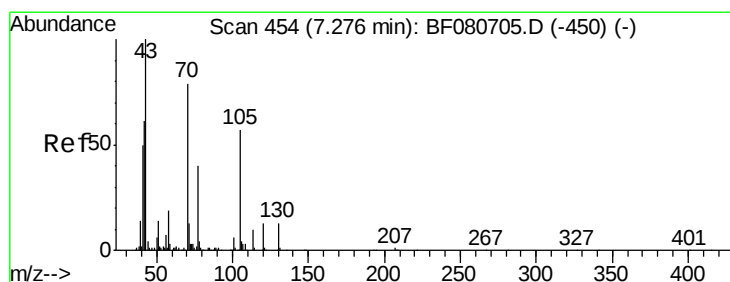
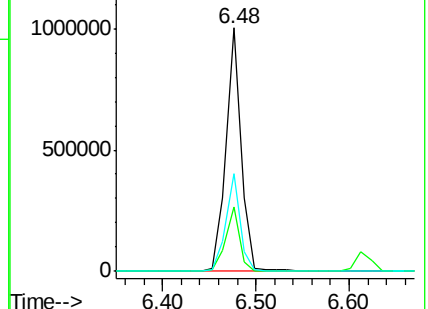
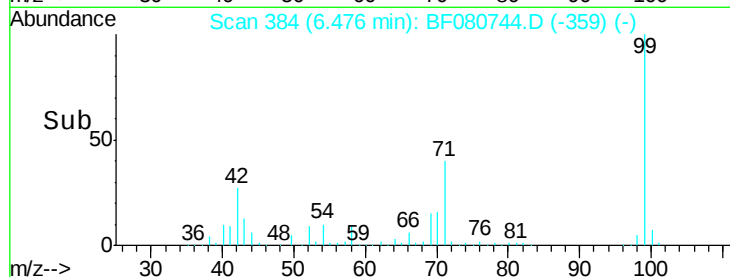
71 40.4 29.5 44.3



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: 17.52 ng

RT: 7.41 min Scan# 466

Delta R.T. 0.14 min

Lab File: BF080744.D

Acq: 31 Jul 2015 20:23

Tgt Ion: 70 Resp: 124087

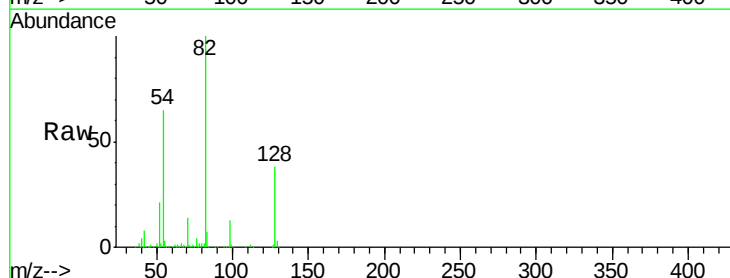
Ion Ratio Lower Upper

70 100

42 57.6 61.8 92.6#

101 0.0 6.1 9.1#

130 2.1 12.9 19.3#

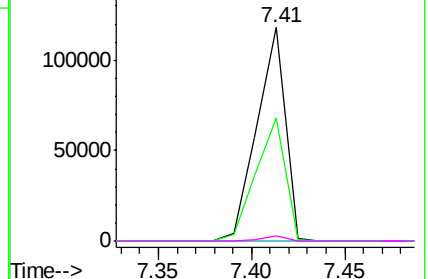
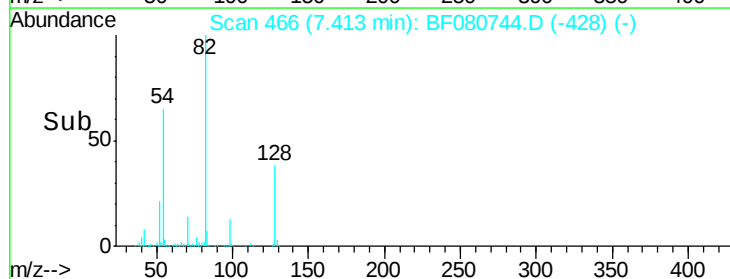


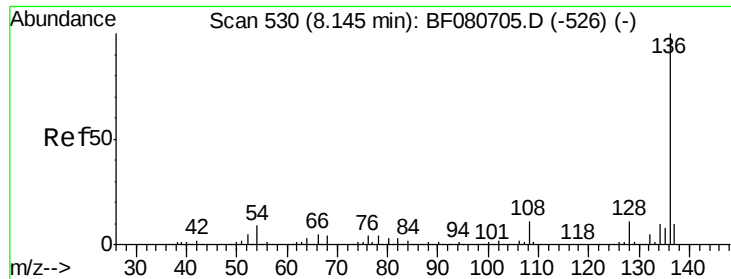
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E

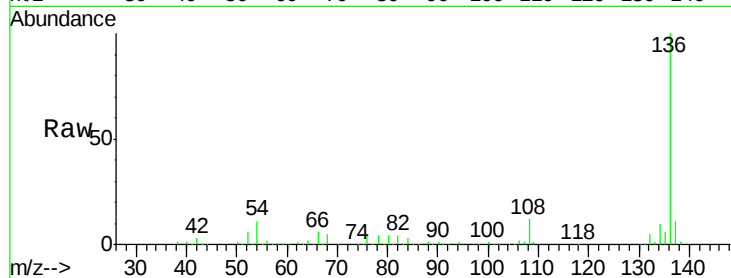




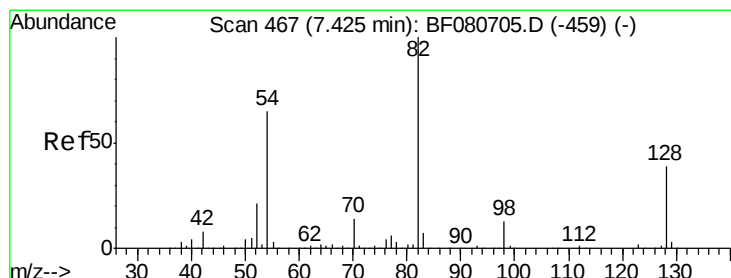
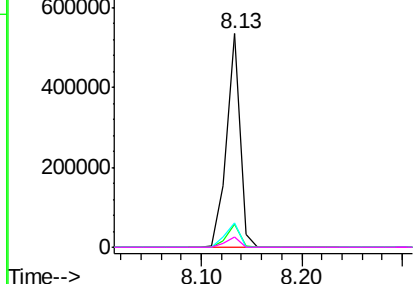
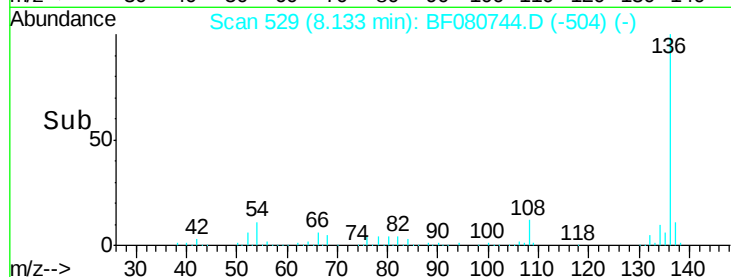
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.13 min Scan# 529  
Delta R.T. -0.01 min  
Lab File: BF080744.D  
Acq: 31 Jul 2015 20:23

Instrument :  
BNA\_F  
ClientSampleId :  
PB84784BL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 498847 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.6  | 8.4   | 12.6   |
| 54        | 11.3  | 6.9   | 10.3#  |
| 68        | 5.1   | 3.5   | 5.3    |

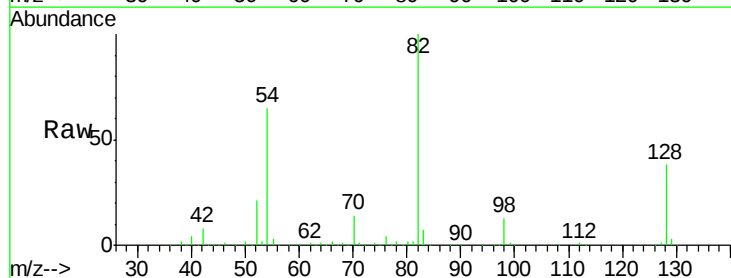


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

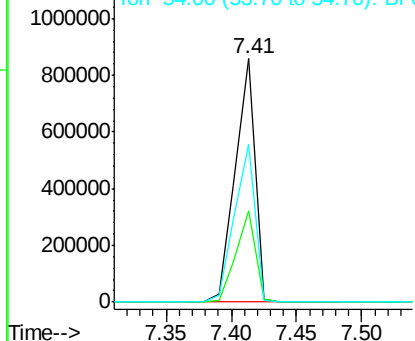
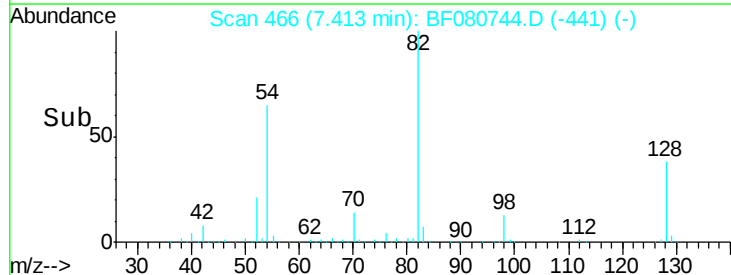


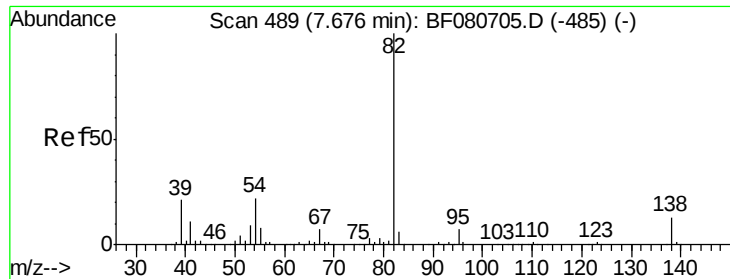
#23  
Nitrobenzene-d5  
Concen: 87.74 ng  
RT: 7.41 min Scan# 466  
Delta R.T. -0.01 min  
Lab File: BF080744.D  
Acq: 31 Jul 2015 20:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 903832 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 37.7  | 31.5  | 47.3   |
| 54        | 64.9  | 51.8  | 77.8   |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 48.18 ng

RT: 7.41 min Scan# 466

Delta R.T. -0.26 min

Lab File: BF080744.D

Acq: 31 Jul 2015 20:23

Instrument :

BNA\_F

ClientSampleId :

PB84784BL

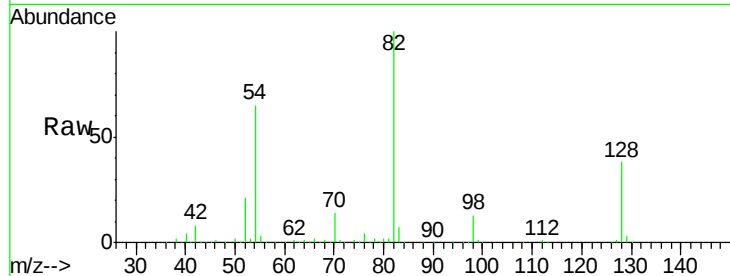
Tgt Ion: 82 Resp: 882705

Ion Ratio Lower Upper

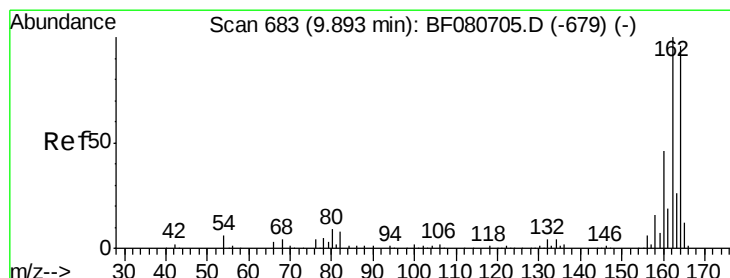
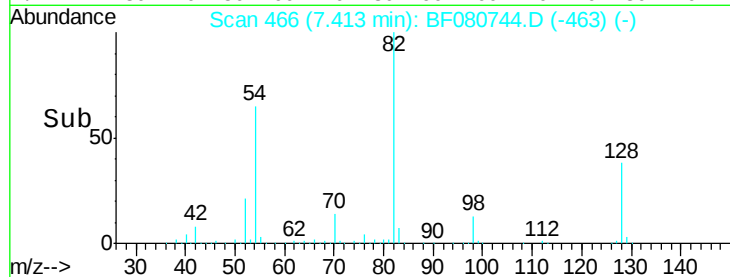
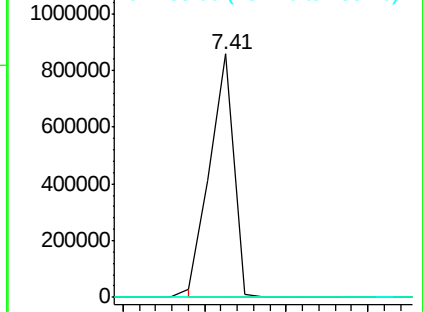
82 100

95 0.0 5.8 8.6#

138 0.0 10.7 16.1#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF080744.D

Acq: 31 Jul 2015 20:23

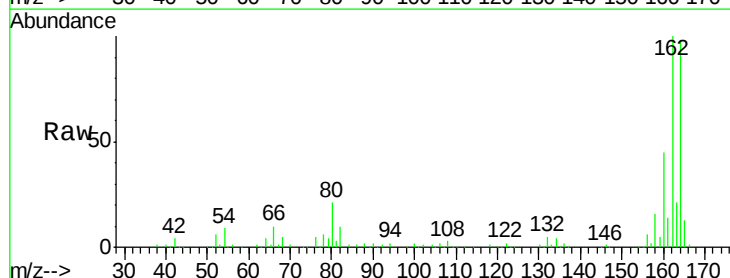
Tgt Ion: 164 Resp: 238638

Ion Ratio Lower Upper

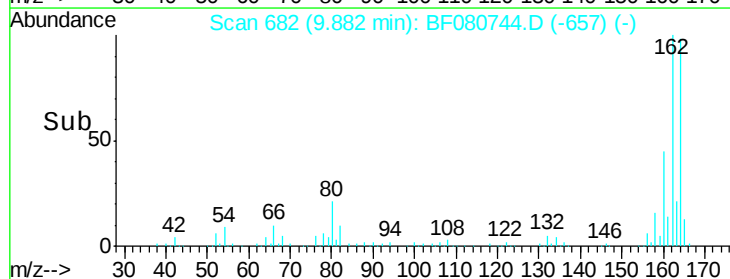
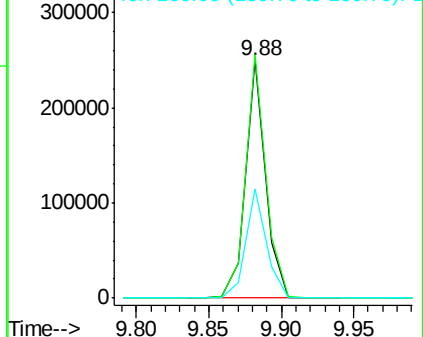
164 100

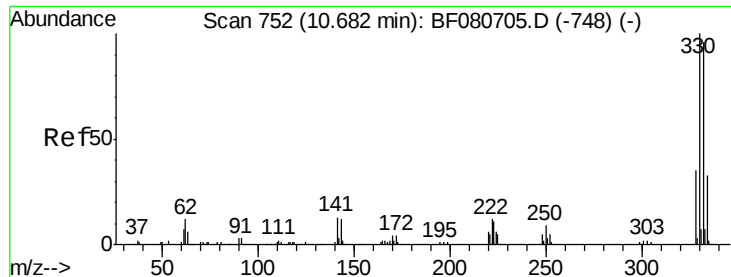
162 102.4 83.4 125.0

160 46.1 38.0 57.0



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

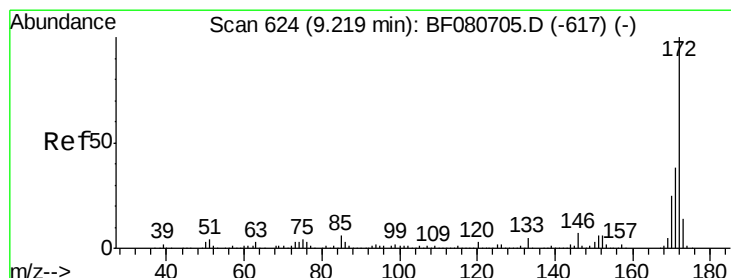
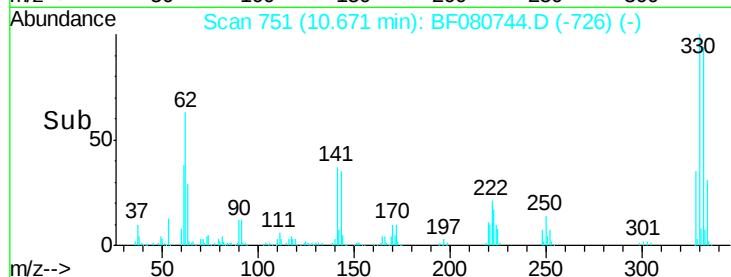
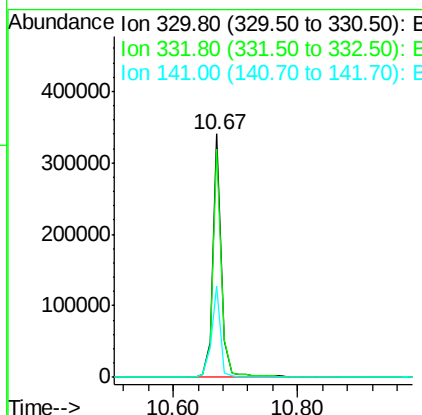
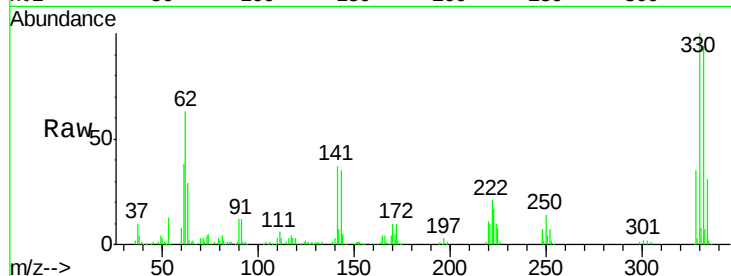




#41  
 2,4,6-Tribromophenol  
 Concen: 131.28 ng  
 RT: 10.67 min Scan# 751  
 Delta R.T. -0.01 min  
 Lab File: BF080744.D  
 Acq: 31 Jul 2015 20:23

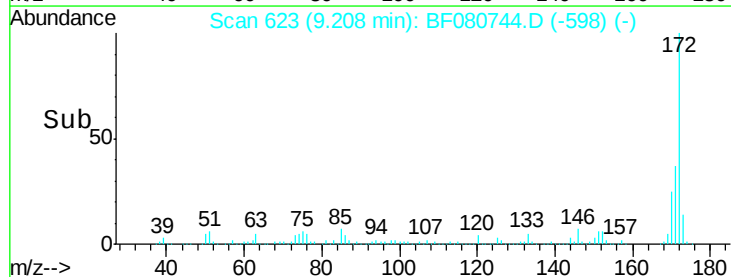
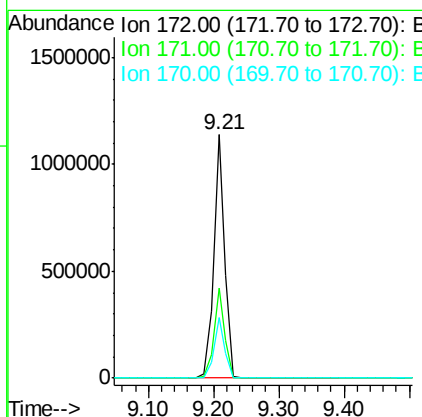
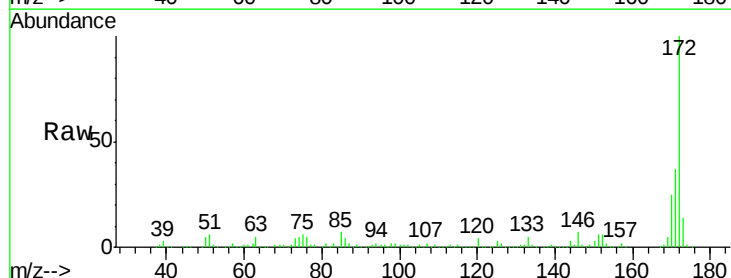
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB84784BL

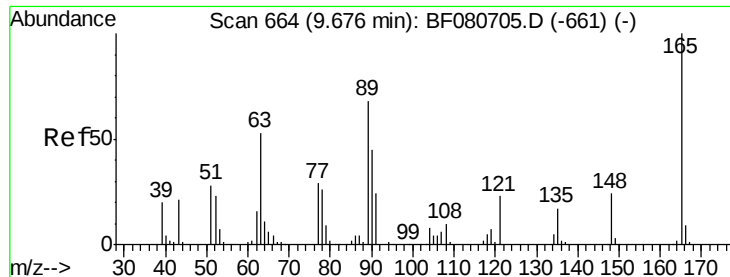
Tgt Ion:330 Resp: 325076  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 76.6 114.8  
 141 39.6 26.0 39.0#



#44  
 2-Fluorobiphenyl  
 Concen: 84.60 ng  
 RT: 9.21 min Scan# 623  
 Delta R.T. -0.01 min  
 Lab File: BF080744.D  
 Acq: 31 Jul 2015 20:23

Tgt Ion:172 Resp: 1353269  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 30.2 45.4  
 170 24.8 20.2 30.2

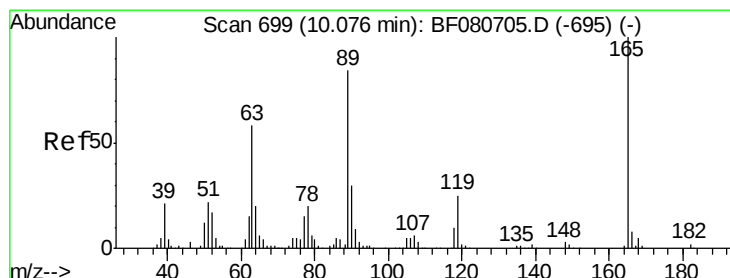
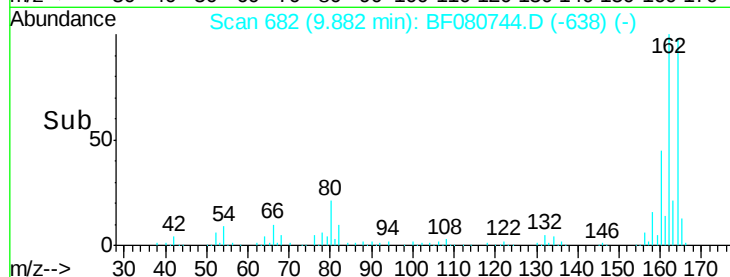
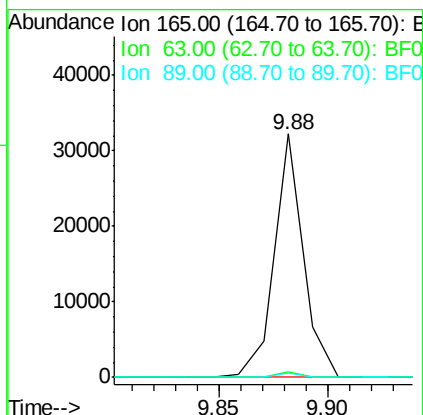
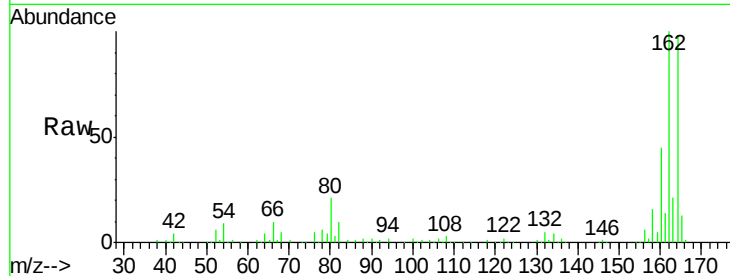




#50  
 2,6-Dinitrotoluene  
 Concen: 8.46 ng  
 RT: 9.88 min Scan# 682  
 Delta R.T. 0.21 min  
 Lab File: BF080744.D  
 Acq: 31 Jul 2015 20:23

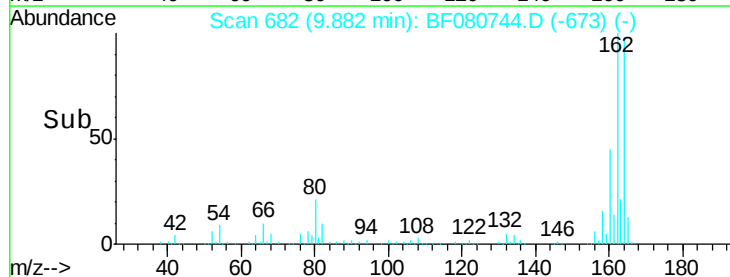
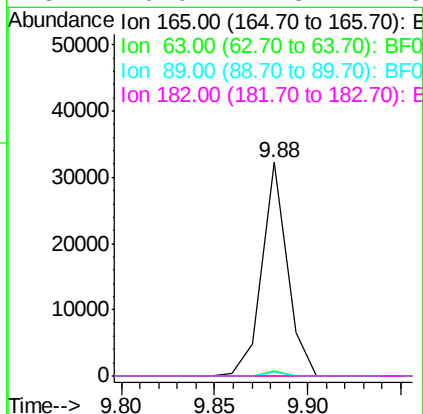
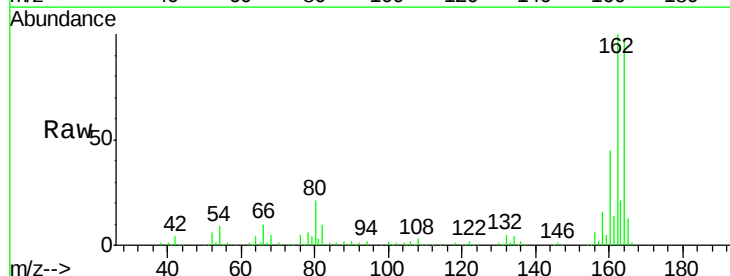
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB84784BL

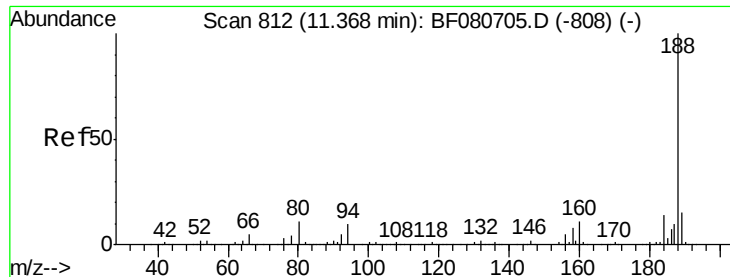
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.3   | 62.3  | 93.5# |
| 89      | 1.6   | 54.8  | 82.2# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.45 ng  
 RT: 9.88 min Scan# 682  
 Delta R.T. -0.19 min  
 Lab File: BF080744.D  
 Acq: 31 Jul 2015 20:23

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 2.3   | 46.7  | 70.1#  |
| 89      | 1.6   | 67.4  | 101.2# |
| 182     | 0.0   | 1.8   | 2.6#   |

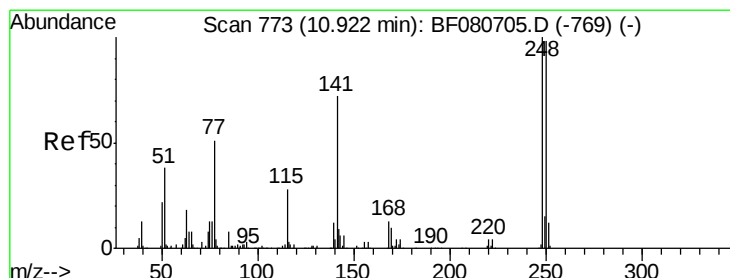
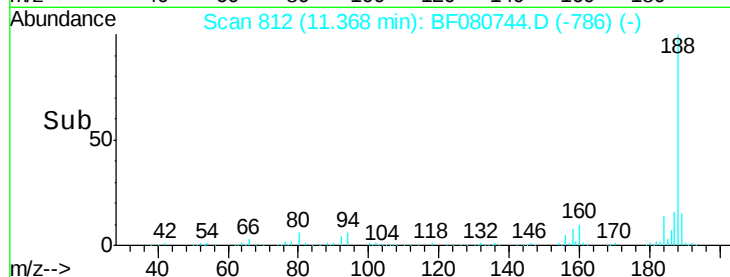
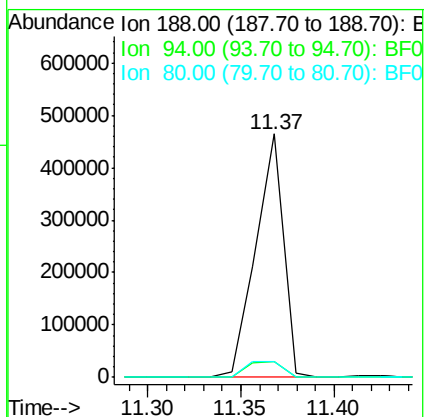
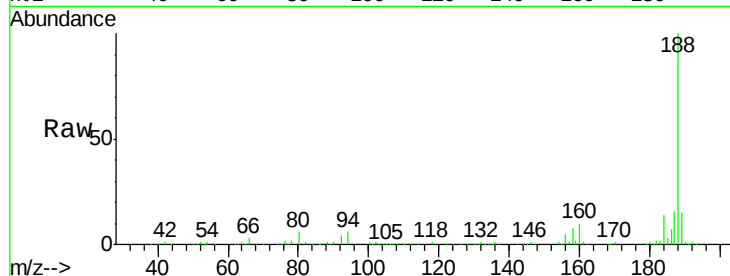




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.37 min Scan# 812  
Delta R.T. -0.00 min  
Lab File: BF080744.D  
Acq: 31 Jul 2015 20:23

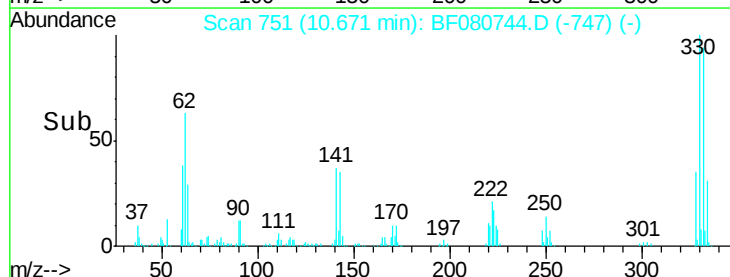
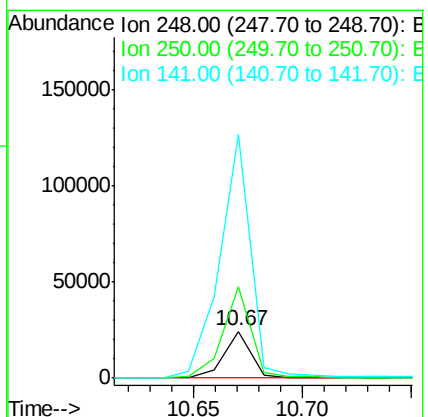
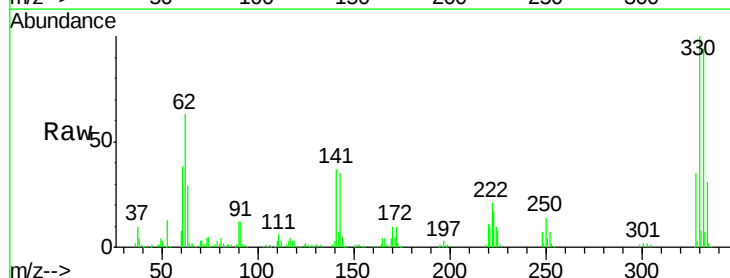
Instrument :  
BNA\_F  
ClientSampleId :  
PB84784BL

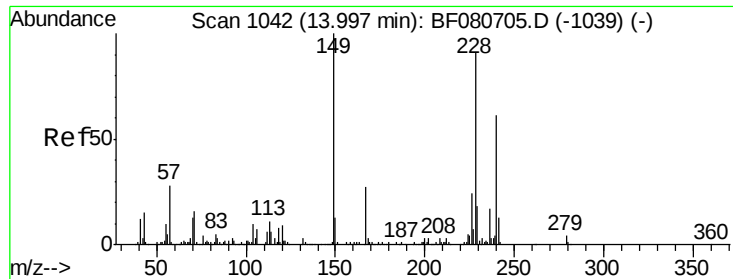
Tgt Ion:188 Resp: 478161  
Ion Ratio Lower Upper  
188 100  
94 6.4 8.1 12.1#  
80 6.3 9.1 13.7#



#66  
4-Bromophenyl-phenylether  
Concen: 4.28 ng  
RT: 10.67 min Scan# 751  
Delta R.T. -0.25 min  
Lab File: BF080744.D  
Acq: 31 Jul 2015 20:23

Tgt Ion:248 Resp: 21115  
Ion Ratio Lower Upper  
248 100  
250 195.6 78.4 117.6#  
141 522.2 57.5 86.3#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.00 min

Lab File: BF080744.D

Acq: 31 Jul 2015 20:23

Instrument :

BNA\_F

ClientSampleId :

PB84784BL

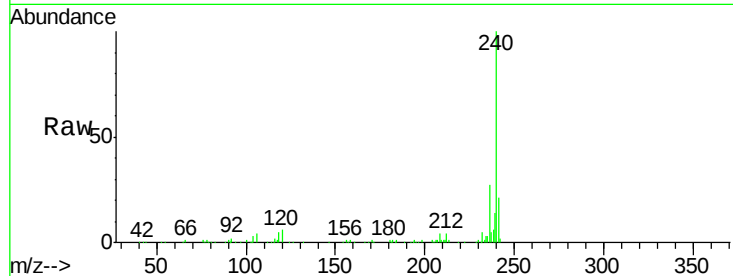
Tgt Ion:240 Resp: 305393

Ion Ratio Lower Upper

240 100

120 5.7 11.8 17.8#

236 26.7 21.8 32.8



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

300000

250000

200000

150000

100000

50000

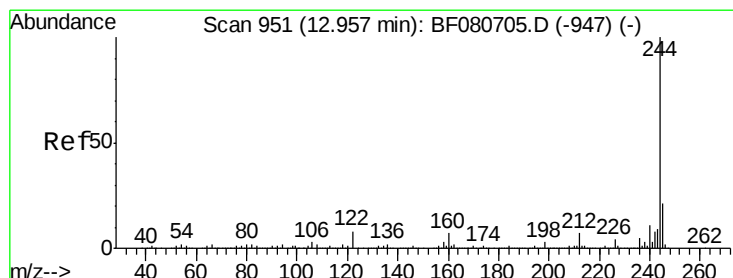
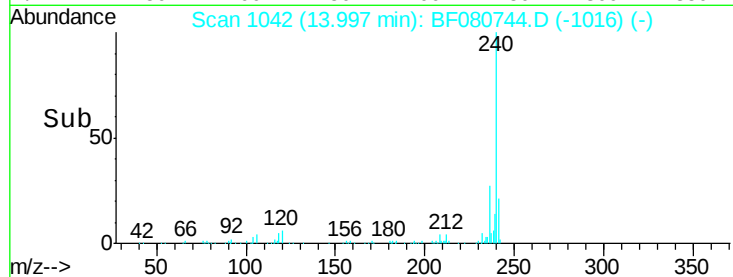
0

14.00

13.90

14.10

Time-->



#78

Terphenyl-d14

Concen: 90.54 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.00 min

Lab File: BF080744.D

Acq: 31 Jul 2015 20:23

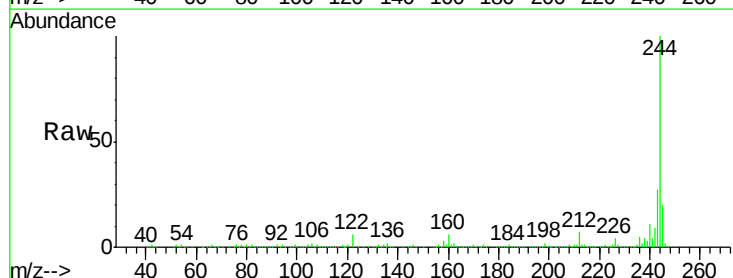
Tgt Ion:244 Resp: 1461901

Ion Ratio Lower Upper

244 100

212 7.1 5.9 8.9

122 6.1 6.6 9.8#



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

1500000

1000000

500000

0

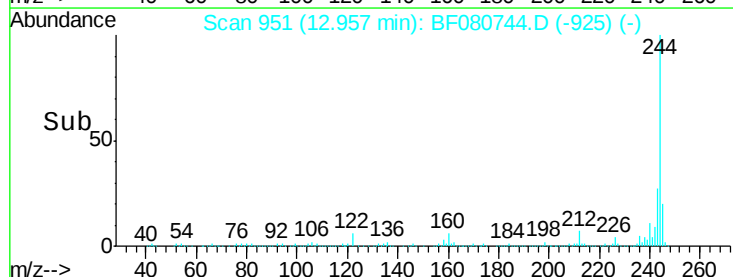
12.96

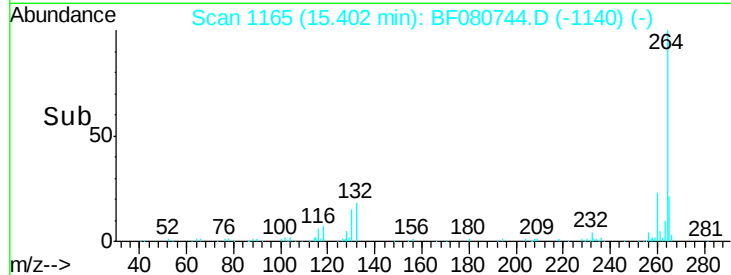
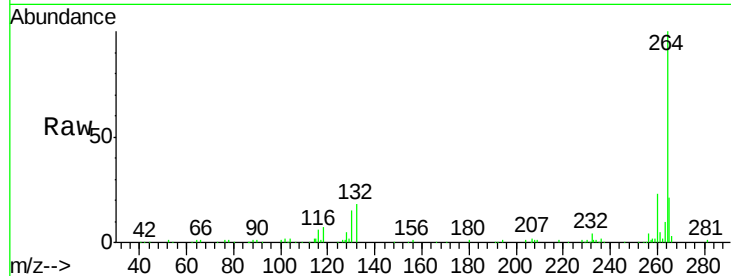
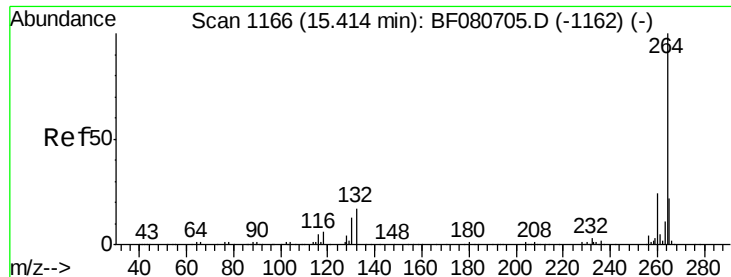
12.80

13.00

13.20

Time-->





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.40 min Scan# 1165  
Delta R.T. -0.01 min  
Lab File: BF080744.D  
Acq: 31 Jul 2015 20:23

Instrument :  
BNA\_F  
ClientSampleId :  
PB84784BL

Tgt Ion: 264 Resp: 254373  
Ion Ratio Lower Upper  
264 100  
260 23.3 19.4 29.0  
265 21.1 17.3 25.9

