

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111915\  
 Data File : BF083052.D  
 Acq On : 19 Nov 2015 23:35  
 Operator : UM/IZ  
 Sample : PB86723BL  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB86723BL

Quant Time: Nov 20 06:44:29 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF111915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 20 01:33:39 2015  
 Response via : Initial Calibration

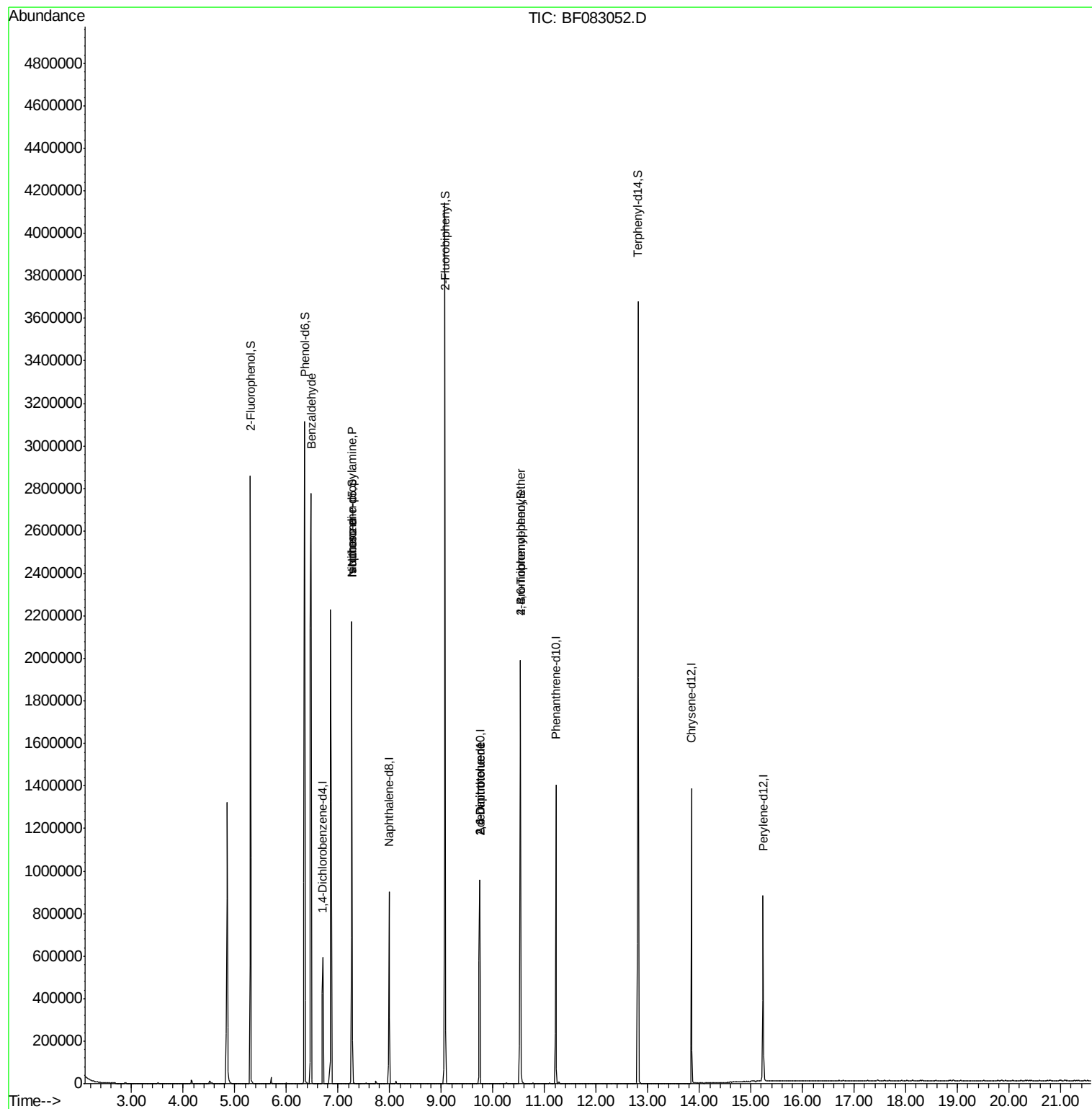
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.70  | 152  | 113491   | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8             | 7.98  | 136  | 430668   | 20.00  | ng    | -0.01     |
| 38) Acenaphthene-d10           | 9.74  | 164  | 239334   | 20.00  | ng    | 0.00      |
| 63) Phenanthrene-d10           | 11.22 | 188  | 479587   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12               | 13.85 | 240  | 454825   | 20.00  | ng    | -0.01     |
| 86) Perylene-d12               | 15.23 | 264  | 382439   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.30  | 112  | 858426   | 117.48 | ng    | 0.01      |
| 7) Phenol-d6                   | 6.35  | 99   | 1079884  | 112.21 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.26  | 82   | 749993   | 79.73  | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 10.53 | 330  | 339008   | 133.41 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl           | 9.07  | 172  | 1270359  | 71.49  | ng    | -0.01     |
| 78) Terphenyl-d14              | 12.81 | 244  | 1455649  | 75.55  | ng    | 0.00      |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 6.48  | 77   | 24037    | 3.30   | ng    | Qvalue 94 |
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70   | 101117   | 14.38  | ng    | # 76      |
| 25) Isophorone                 | 7.26  | 82   | 579464   | 32.66  | ng    | # 69      |
| 50) 2,6-Dinitrotoluene         | 9.74  | 165  | 29762    | 7.01   | ng    | # 27      |
| 56) 2,4-Dinitrotoluene         | 9.74  | 165  | 29762    | 5.24   | ng    | # 19      |
| 66) 4-Bromophenyl-phenylether  | 10.53 | 248  | 22486    | 4.05   | ng    | # 1       |

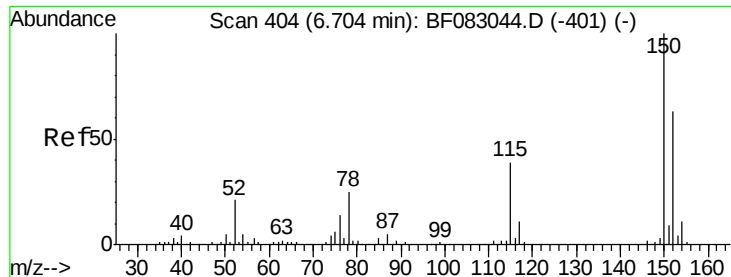
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111915\  
Data File : BF083052.D  
Acq On : 19 Nov 2015 23:35  
Operator : UM/IZ  
Sample : PB86723BL  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB86723BL

Quant Time: Nov 20 06:44:29 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF111915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 20 01:33:39 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 404

Delta R.T. 0.00 min

Lab File: BF083052.D

Acq: 19 Nov 2015 23:35

Instrument :

BNA\_F

ClientSampleId :

PB86723BL

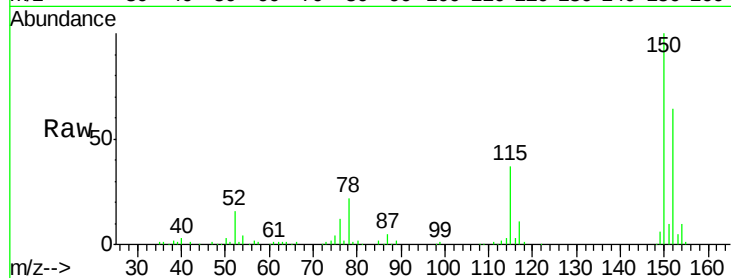
Tgt Ion:152 Resp: 113491

Ion Ratio Lower Upper

152 100

150 156.5 126.4 189.6

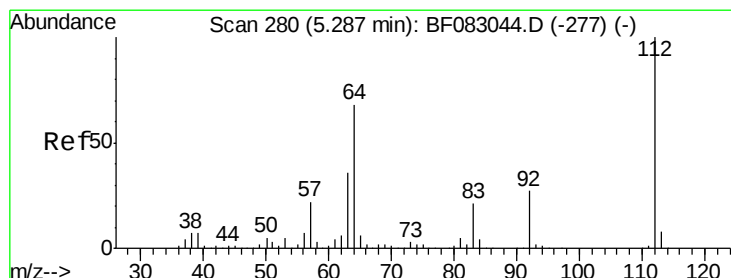
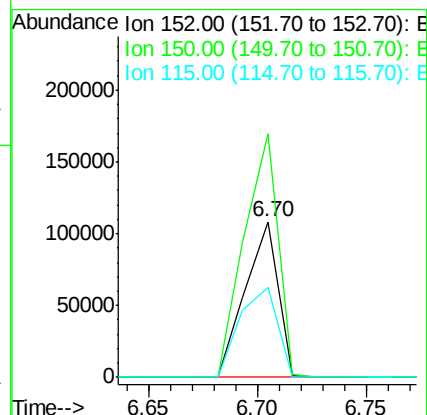
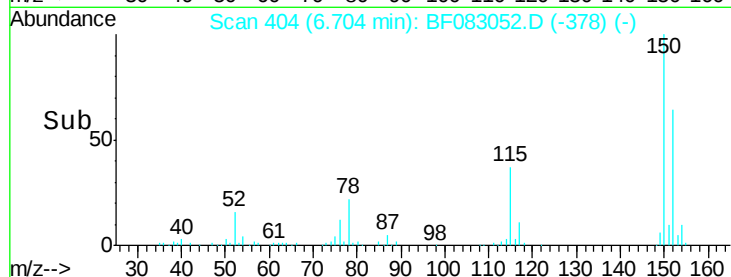
115 57.7 49.0 73.6



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: 117.48 ng

RT: 5.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: BF083052.D

Acq: 19 Nov 2015 23:35

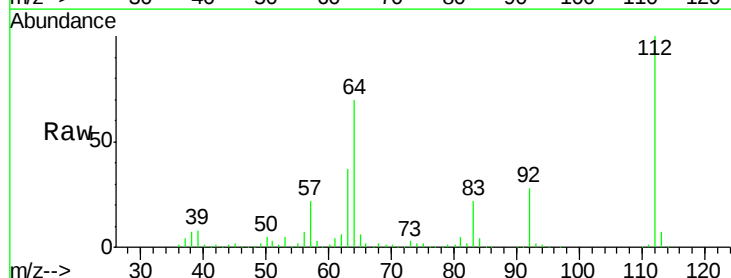
Tgt Ion:112 Resp: 858426

Ion Ratio Lower Upper

112 100

64 70.1 54.8 82.2

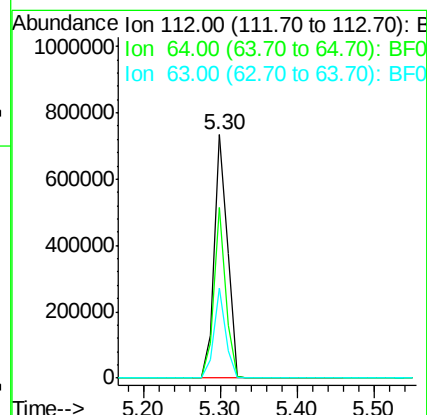
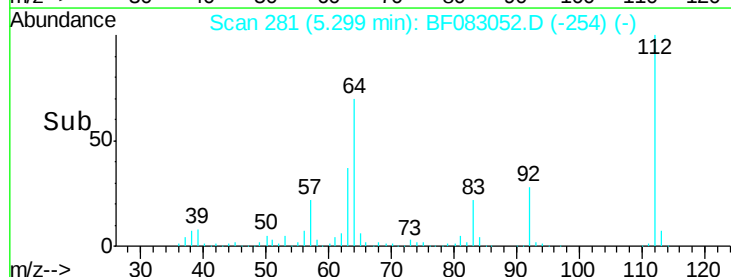
63 37.2 29.0 43.4

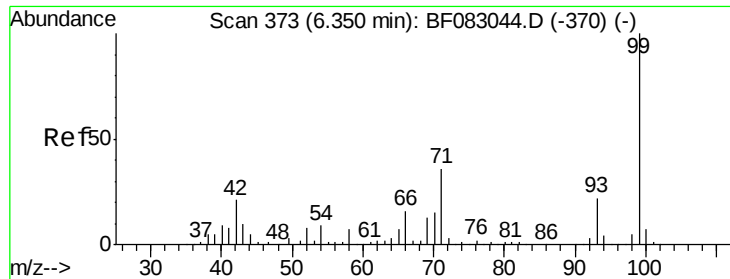


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 112.21 ng

RT: 6.35 min Scan# 373

Delta R.T. 0.00 min

Lab File: BF083052.D

Acq: 19 Nov 2015 23:35

Instrument :

BNA\_F

ClientSampleId :

PB86723BL

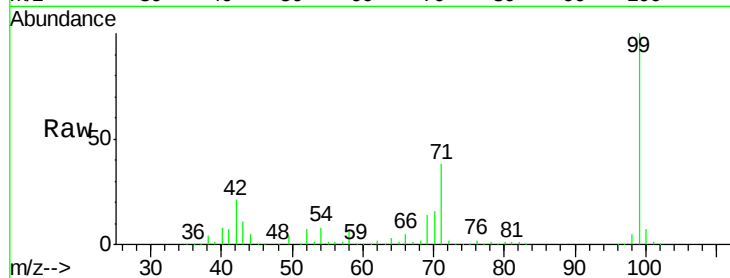
Tgt Ion: 99 Resp: 1079884

Ion Ratio Lower Upper

99 100

42 20.8 16.6 25.0

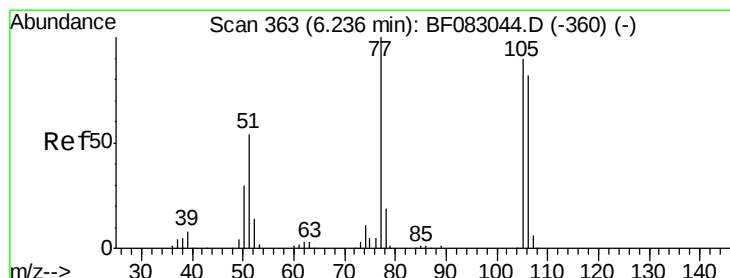
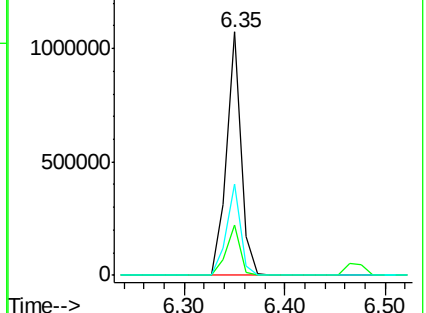
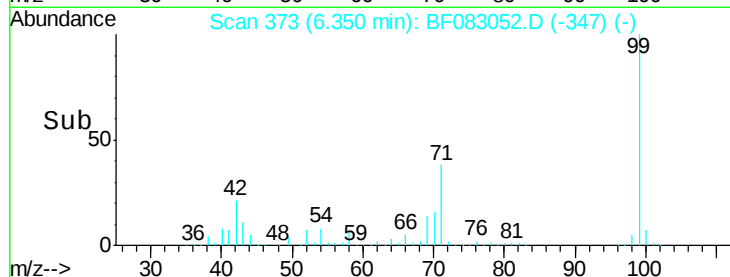
71 37.5 29.2 43.8



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



#9

Benzaldehyde

Concen: 3.30 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.24 min

Lab File: BF083052.D

Acq: 19 Nov 2015 23:35

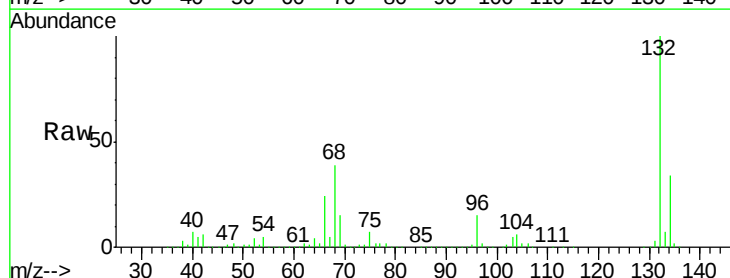
Tgt Ion: 77 Resp: 24037

Ion Ratio Lower Upper

77 100

105 87.7 69.6 109.6

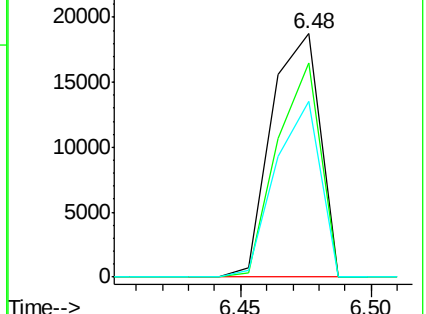
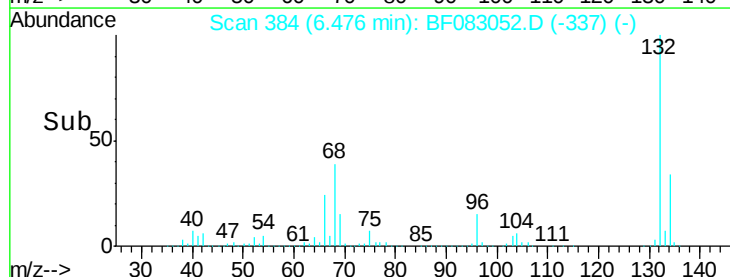
106 72.4 62.0 102.0

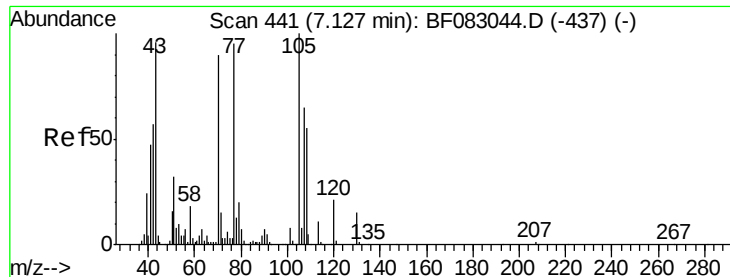


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

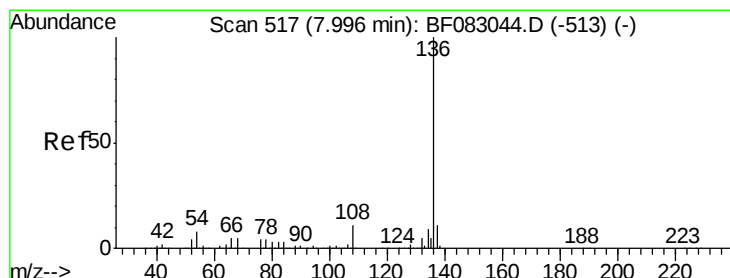
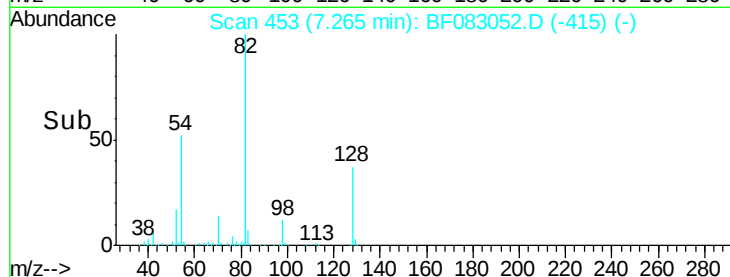
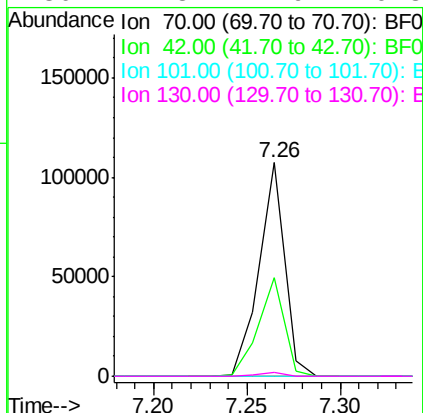
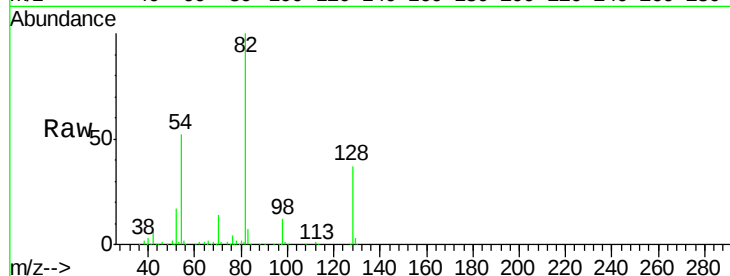




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.38 ng  
RT: 7.26 min Scan# 453  
Delta R.T. 0.14 min  
Lab File: BF083052.D  
Acq: 19 Nov 2015 23:35

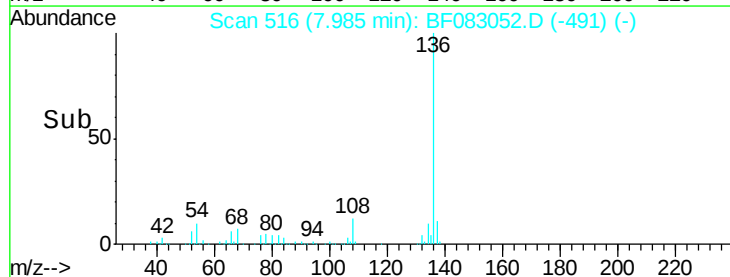
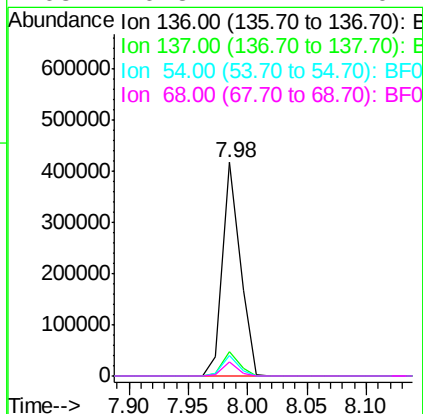
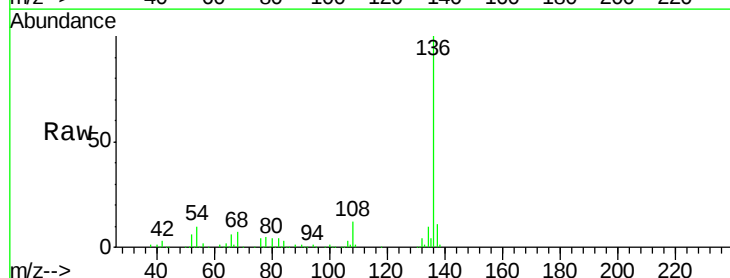
Instrument :  
BNA\_F  
ClientSampleId :  
PB86723BL

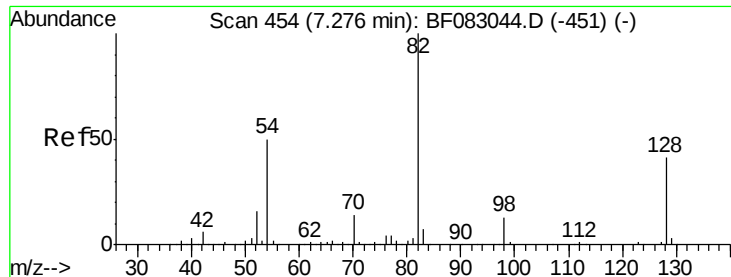
Tgt Ion: 70 Resp: 101117  
Ion Ratio Lower Upper  
70 100  
42 46.1 50.2 75.2#  
101 0.0 6.8 10.2#  
130 1.8 12.9 19.3#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.98 min Scan# 516  
Delta R.T. -0.01 min  
Lab File: BF083052.D  
Acq: 19 Nov 2015 23:35

Tgt Ion: 136 Resp: 430668  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.6 12.8  
54 9.7 6.2 9.2#  
68 6.8 4.2 6.2#

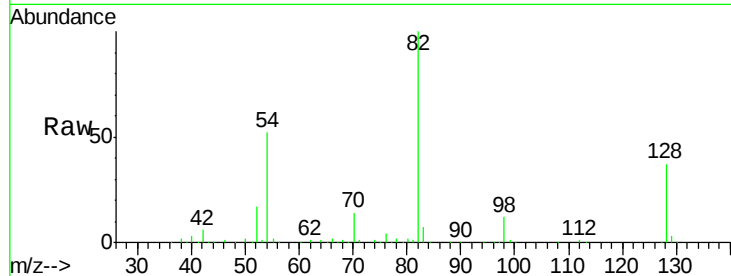




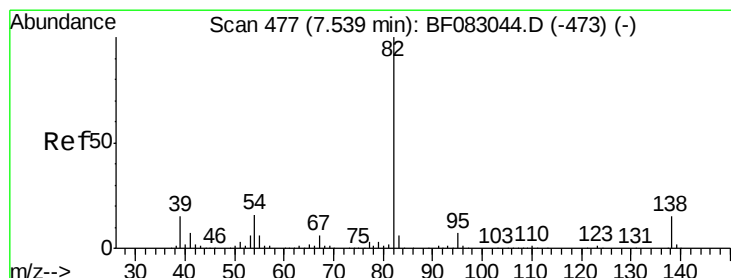
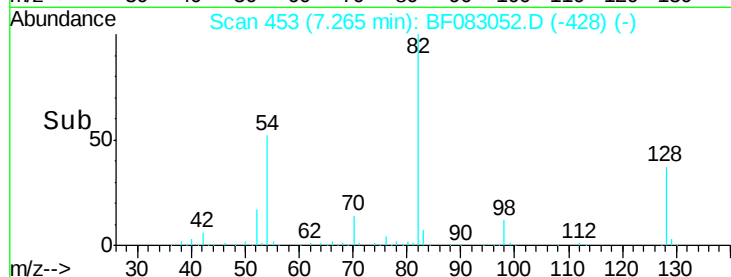
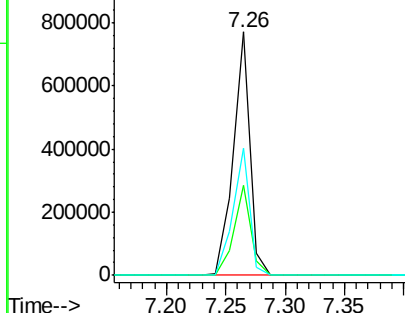
#23  
 Nitrobenzene-d5  
 Concen: 79.73 ng  
 RT: 7.26 min Scan# 453  
 Delta R.T. -0.01 min  
 Lab File: BF083052.D  
 Acq: 19 Nov 2015 23:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB86723BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 36.8  | 33.1  | 49.7  |
| 54      | 52.4  | 39.8  | 59.6  |

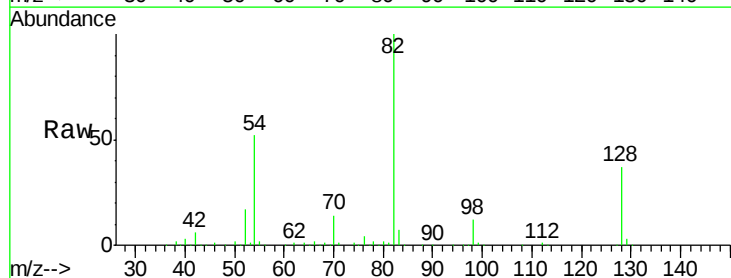


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

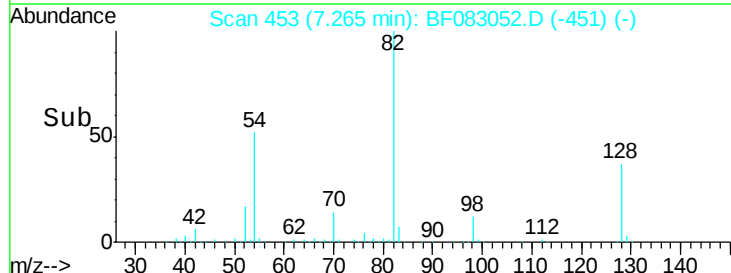
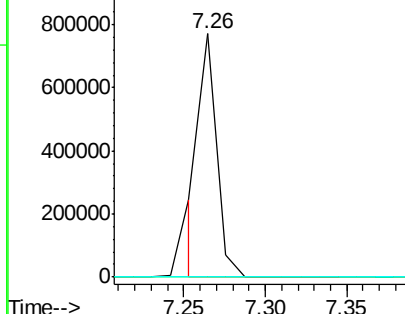


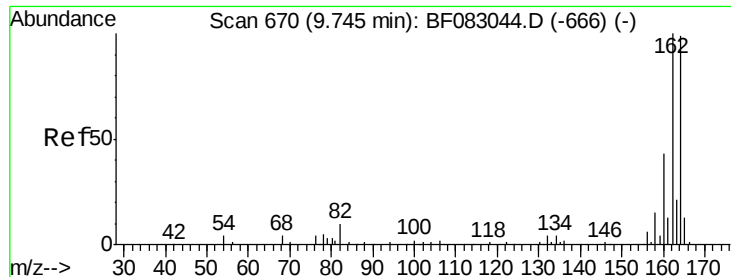
#25  
 Isophorone  
 Concen: 32.66 ng  
 RT: 7.26 min Scan# 453  
 Delta R.T. -0.27 min  
 Lab File: BF083052.D  
 Acq: 19 Nov 2015 23:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 5.7   | 8.5#  |
| 138     | 0.0   | 12.2  | 18.4# |



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

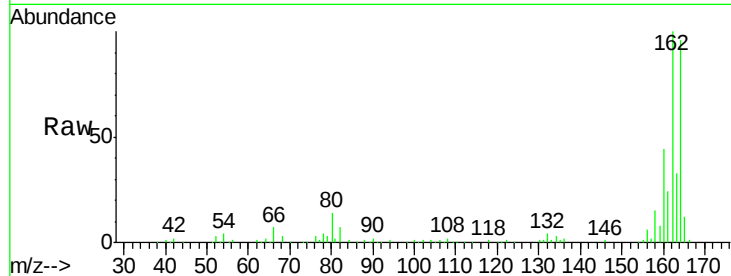




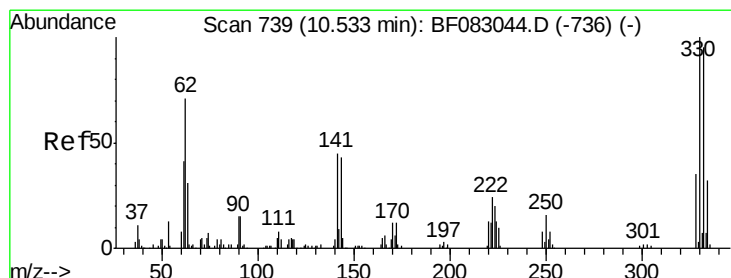
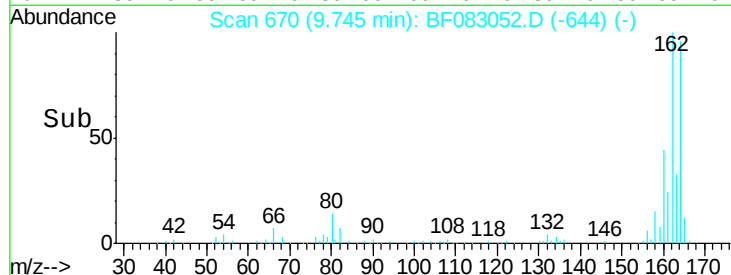
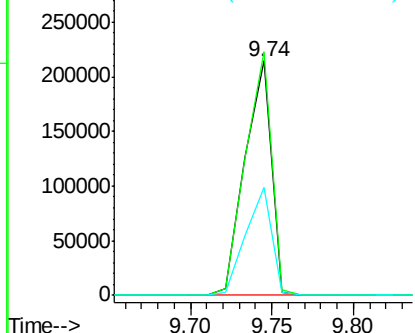
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.74 min Scan# 670  
 Delta R.T. 0.00 min  
 Lab File: BF083052.D  
 Acq: 19 Nov 2015 23:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB86723BL

Tgt Ion:164 Resp: 239334  
 Ion Ratio Lower Upper  
 164 100  
 162 104.0 80.5 120.7  
 160 46.1 35.0 52.4

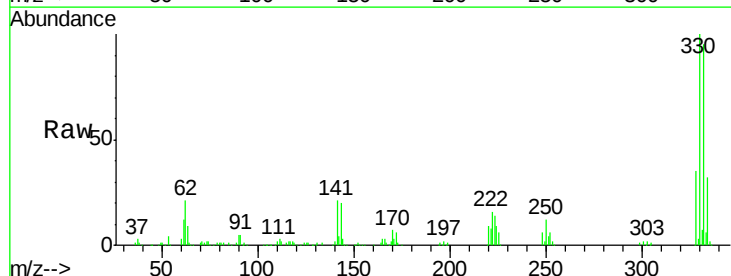


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

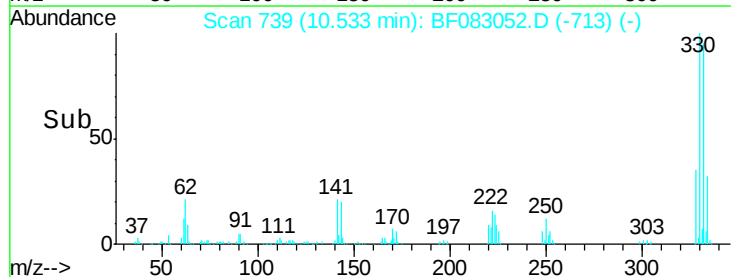
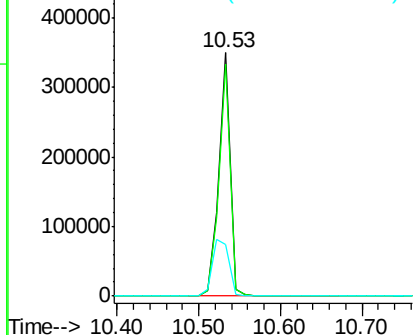


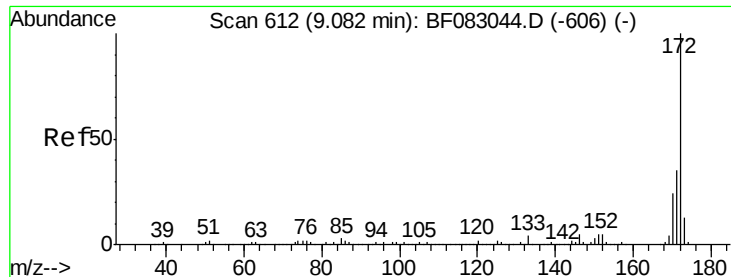
#41  
 2,4,6-Tribromophenol  
 Concen: 133.41 ng  
 RT: 10.53 min Scan# 739  
 Delta R.T. 0.00 min  
 Lab File: BF083052.D  
 Acq: 19 Nov 2015 23:35

Tgt Ion:330 Resp: 339008  
 Ion Ratio Lower Upper  
 330 100  
 332 95.1 77.6 116.4  
 141 33.9 34.6 52.0#



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

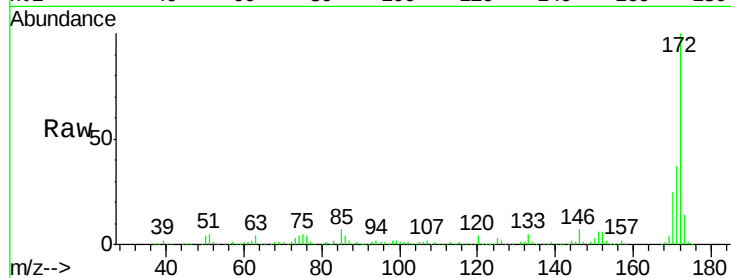




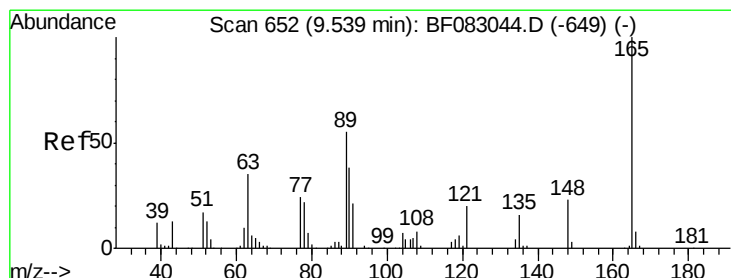
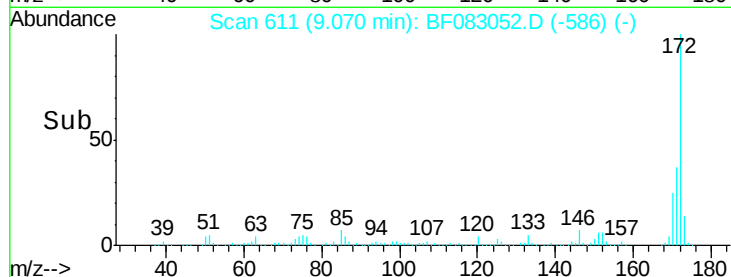
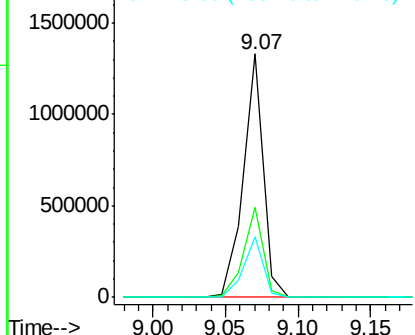
#44  
2-Fluorobiphenyl  
Concen: 71.49 ng  
RT: 9.07 min Scan# 611  
Delta R.T. -0.01 min  
Lab File: BF083052.D  
Acq: 19 Nov 2015 23:35

Instrument :  
BNA\_F  
ClientSampleId :  
PB86723BL

Tgt Ion:172 Resp: 1270359  
Ion Ratio Lower Upper  
172 100  
171 36.8 28.2 42.4  
170 24.9 19.4 29.0

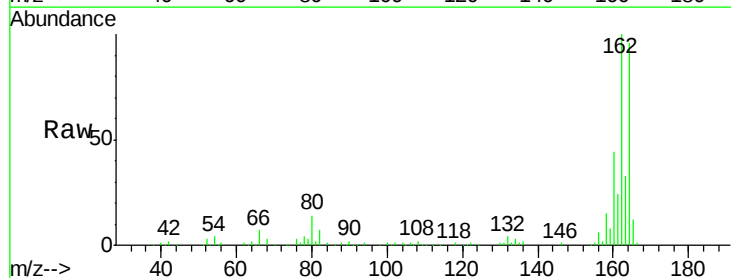


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

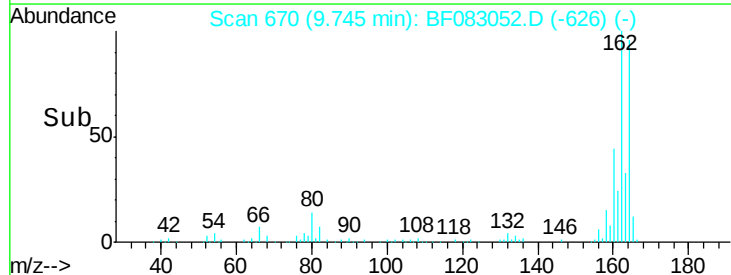
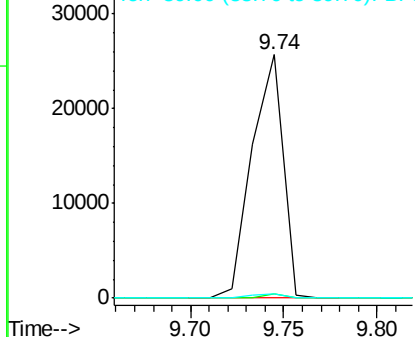


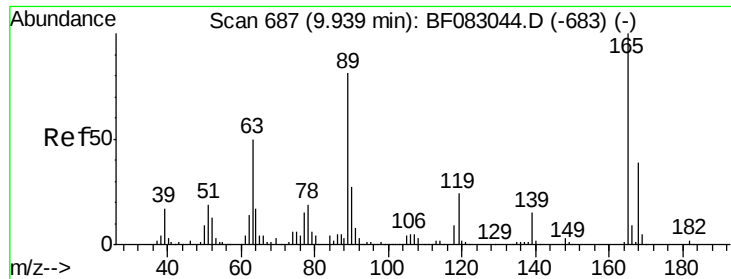
#50  
2,6-Dinitrotoluene  
Concen: 7.01 ng  
RT: 9.74 min Scan# 670  
Delta R.T. 0.21 min  
Lab File: BF083052.D  
Acq: 19 Nov 2015 23:35

Tgt Ion:165 Resp: 29762  
Ion Ratio Lower Upper  
165 100  
63 1.7 40.6 61.0#  
89 1.7 44.5 66.7#



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

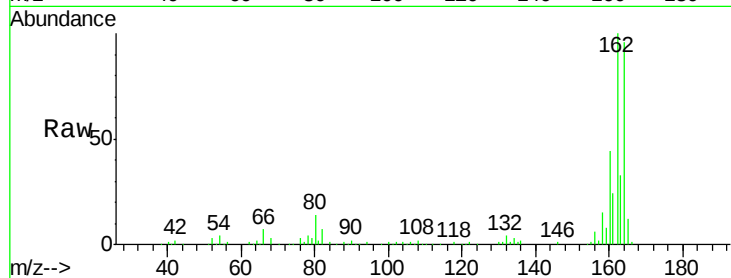




#56  
 2,4-Dinitrotoluene  
 Concen: 5.24 ng  
 RT: 9.74 min Scan# 670  
 Delta R.T. -0.19 min  
 Lab File: BF083052.D  
 Acq: 19 Nov 2015 23:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB86723BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 40.6  | 61.0# |
| 89      | 1.7   | 64.4  | 96.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

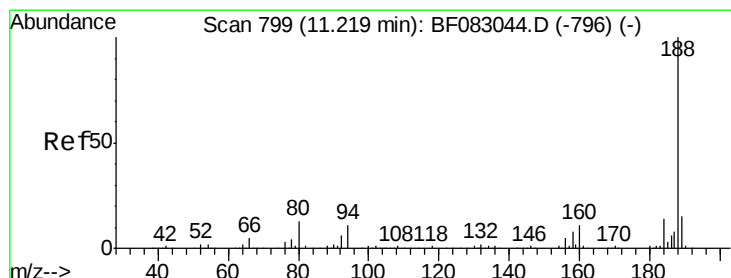
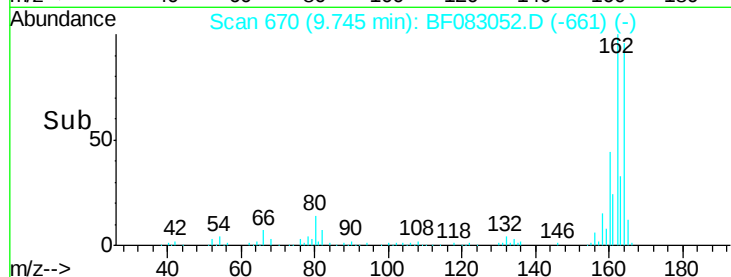
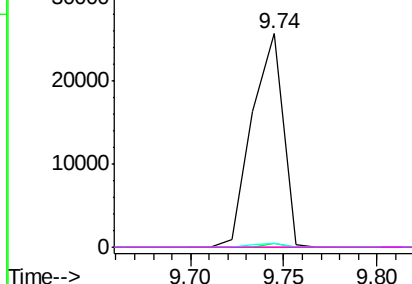


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

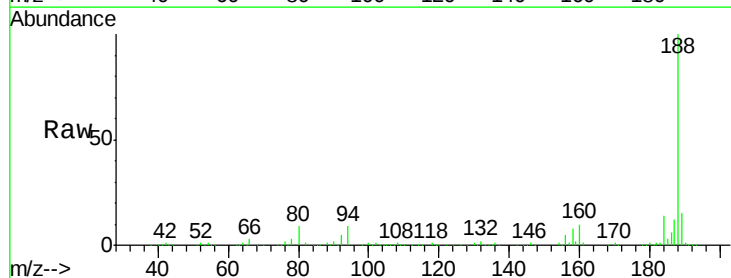
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.22 min Scan# 799  
 Delta R.T. 0.00 min  
 Lab File: BF083052.D  
 Acq: 19 Nov 2015 23:35

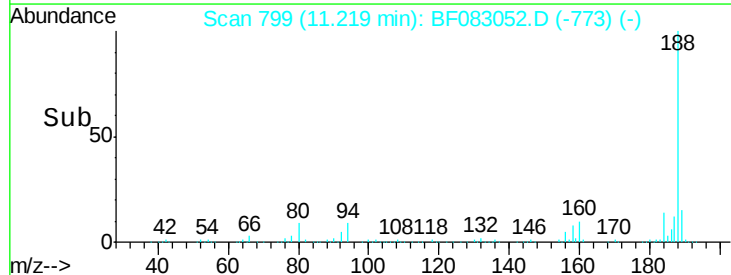
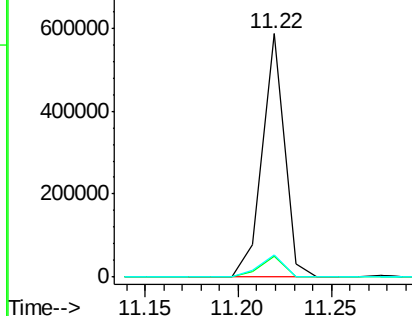
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.6   | 9.0   | 13.4# |
| 80      | 9.1   | 10.2  | 15.4# |

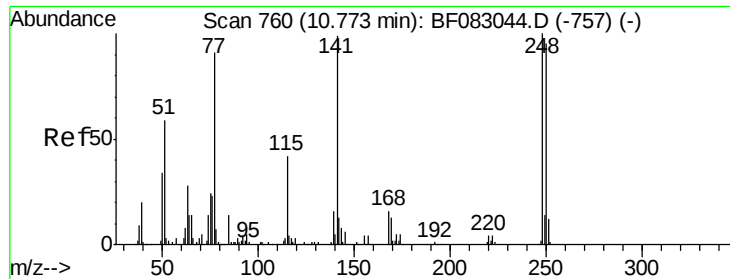


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#66

4-Bromophenyl-phenylether

Concen: 4.05 ng

RT: 10.53 min Scan# 739

Delta R.T. -0.24 min

Lab File: BF083052.D

Acq: 19 Nov 2015 23:35

Instrument :

BNA\_F

ClientSampled :

PB86723BL

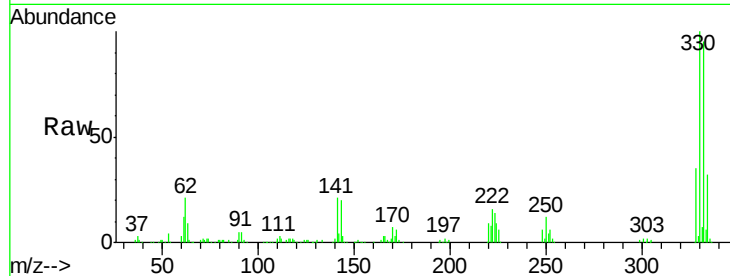
Tgt Ion:248 Resp: 22486

Ion Ratio Lower Upper

248 100

250 201.5 76.1 114.1#

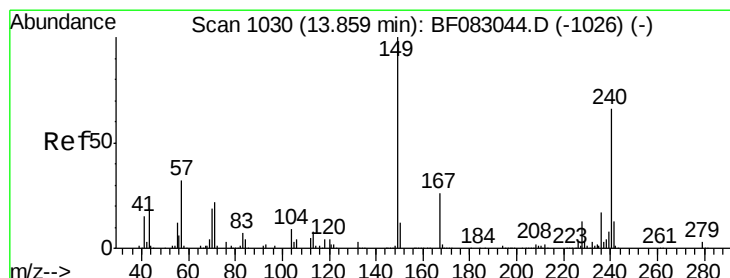
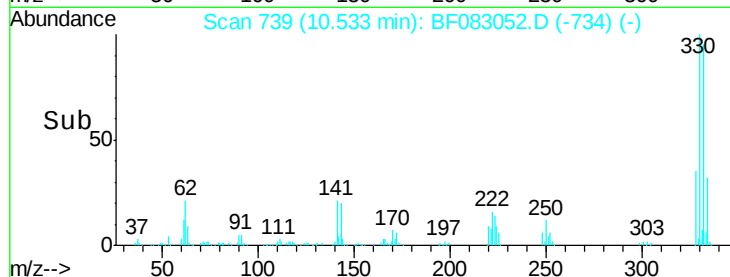
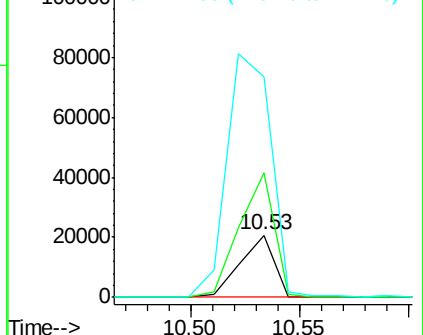
141 354.8 79.2 118.8#



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.85 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF083052.D

Acq: 19 Nov 2015 23:35

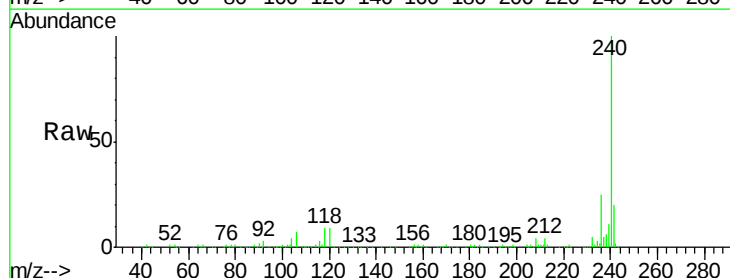
Tgt Ion:240 Resp: 454825

Ion Ratio Lower Upper

240 100

120 9.2 5.3 7.9#

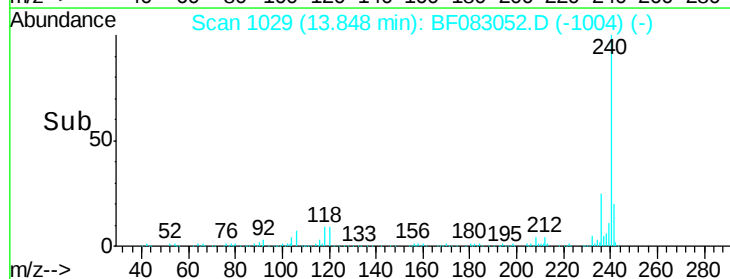
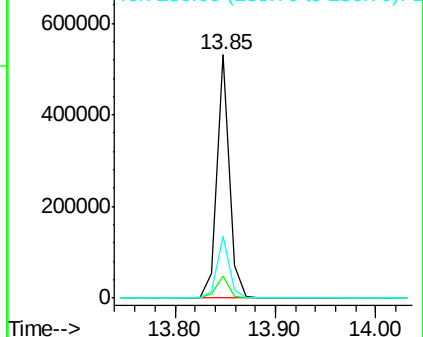
236 25.3 20.4 30.6

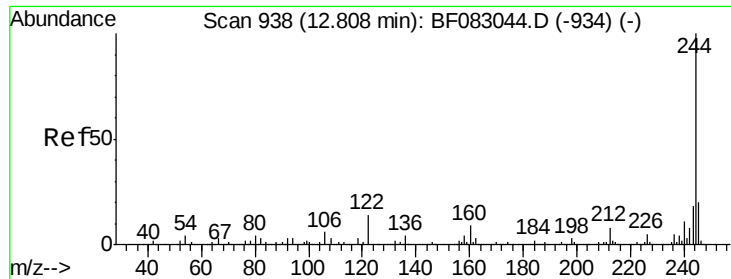


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

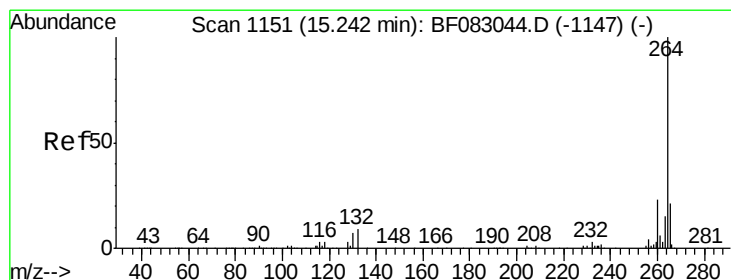
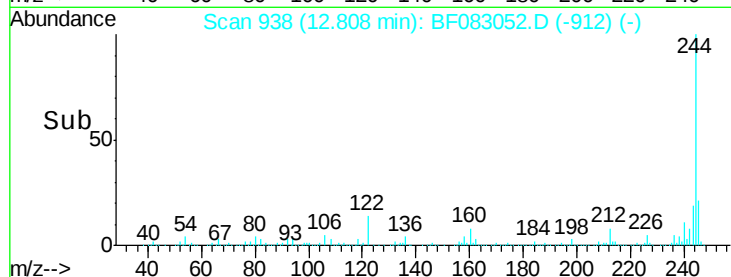
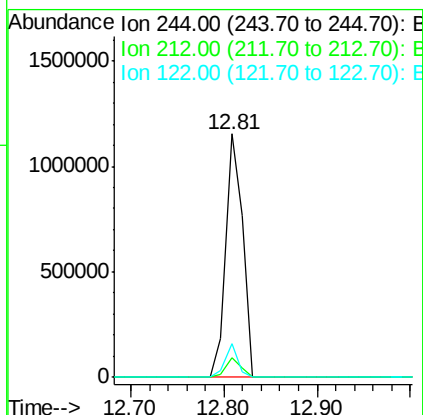
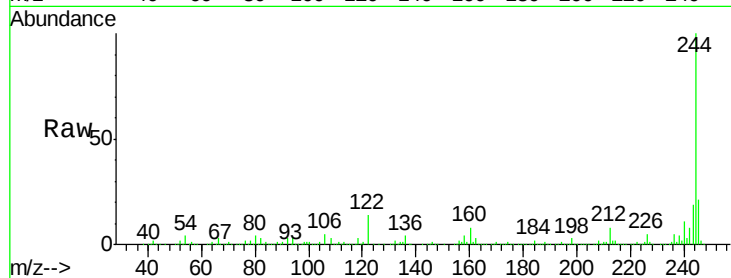




#78  
 Terphenyl-d14  
 Concen: 75.55 ng  
 RT: 12.81 min Scan# 938  
 Delta R.T. 0.00 min  
 Lab File: BF083052.D  
 Acq: 19 Nov 2015 23:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB86723BL

Tgt Ion:244 Resp: 1455649  
 Ion Ratio Lower Upper  
 244 100  
 212 8.1 6.4 9.6  
 122 13.8 10.9 16.3



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.23 min Scan# 1150  
 Delta R.T. -0.01 min  
 Lab File: BF083052.D  
 Acq: 19 Nov 2015 23:35

Tgt Ion:264 Resp: 382439  
 Ion Ratio Lower Upper  
 264 100  
 260 23.3 18.6 27.8  
 265 21.4 17.0 25.6

