

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112515\  
 Data File : BF083284.D  
 Acq On : 25 Nov 2015 20:22  
 Operator : UM/IZ  
 Sample : G4559-08  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-BF006-01

Quant Time: Nov 26 01:15:47 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\Methods\8270-BF112115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 09:22:46 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.58  | 152  | 162147   | 20.00     | ng    | -0.08    |
| 21) Naphthalene-d8             | 7.87  | 136  | 625127   | 20.00     | ng    | -0.08    |
| 38) Acenaphthene-d10           | 9.62  | 164  | 315079   | 20.00     | ng    | -0.08    |
| 63) Phenanthrene-d10           | 11.10 | 188  | 561272   | 20.00     | ng    | -0.08    |
| 75) Chrysene-d12               | 13.71 | 240  | 390563   | 20.00     | ng    | -0.09    |
| 86) Perylene-d12               | 15.06 | 264  | 366469   | 20.00     | ng    | -0.10    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.19  | 112  | 1372780  | 128.00    | ng    | -0.09    |
| 7) Phenol-d6                   | 6.26  | 99   | 1874885  | 135.11    | ng    | -0.08    |
| 23) Nitrobenzene-d5            | 7.15  | 82   | 1127957  | 82.45     | ng    | -0.08    |
| 41) 2,4,6-Tribromophenol       | 10.41 | 330  | 352864   | 109.47    | ng    | -0.08    |
| 44) 2-Fluorobiphenyl           | 8.96  | 172  | 1749638  | 77.43     | ng    | -0.07    |
| 78) Terphenyl-d14              | 12.69 | 244  | 1403647  | 84.63     | ng    | -0.08    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.26  | 77   | 2698     | Below Cal | #     | 4        |
| 19) n-Nitroso-di-n-propylamine | 7.15  | 70   | 147997   | 15.32     | ng    | # 82     |
| 49) Dimethylphthalate          | 9.36  | 163  | 580260   | 23.92     | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.62  | 165  | 40751    | 5.91      | ng    | # 10     |
| 66) 4-Bromophenyl-phenylether  | 10.41 | 248  | 25725    | 4.13      | ng    | # 1      |

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

```
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112515\  
Data File : BF083284.D  
Acq On    : 25 Nov 2015   20:22  
Operator  : UM/IZ  
Sample    : G4559-08  
Misc      :  
ALS Vial  : 11      Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.58 min Scan# 402

Delta R.T. -0.08 min

Lab File: BF083284.D

Acq: 25 Nov 2015 20:22

Instrument :

BNA\_F

ClientSampleId :

P001-BF006-01

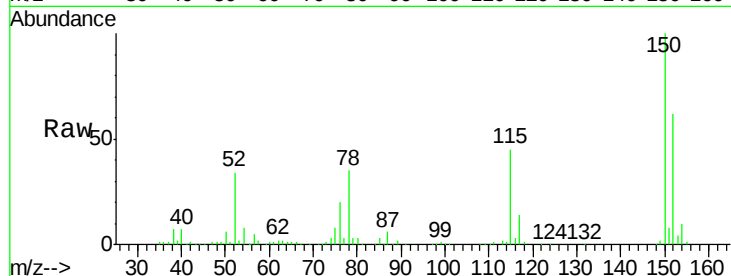
Tgt Ion:152 Resp: 162147

Ion Ratio Lower Upper

152 100

150 160.5 125.8 188.8

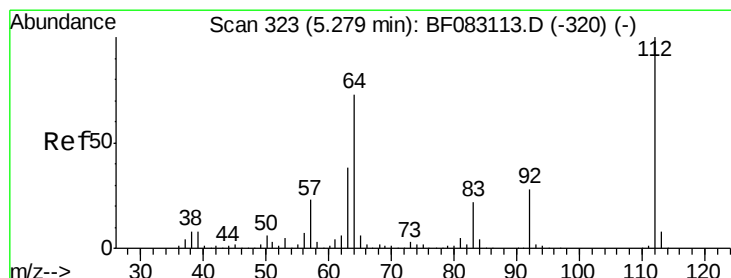
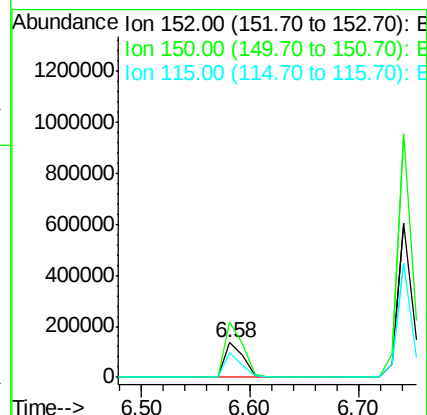
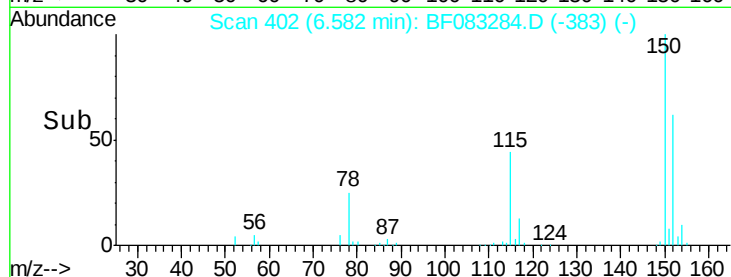
115 71.7 46.9 70.3#



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: 128.00 ng

RT: 5.19 min Scan# 280

Delta R.T. -0.09 min

Lab File: BF083284.D

Acq: 25 Nov 2015 20:22

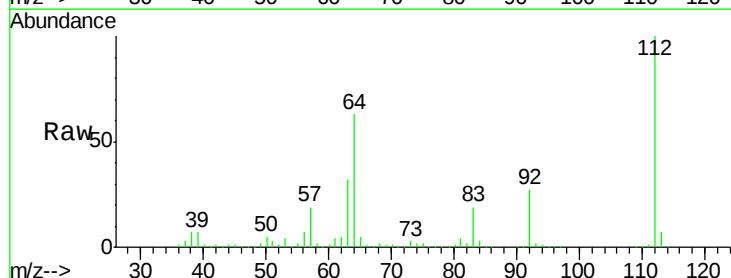
Tgt Ion:112 Resp: 1372780

Ion Ratio Lower Upper

112 100

64 62.7 58.4 87.6

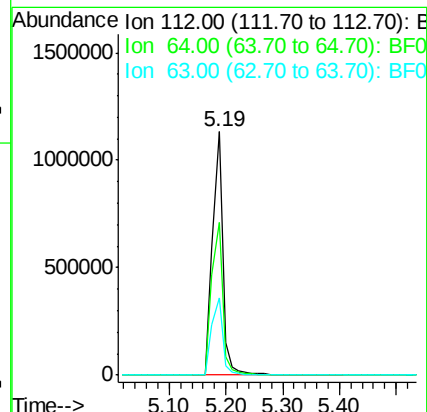
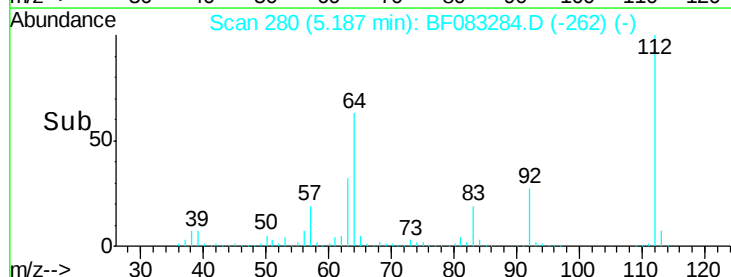
63 31.7 30.0 45.0



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: 135.11 ng

RT: 6.26 min Scan# 374

Delta R.T. -0.08 min

Lab File: BF083284.D

Acq: 25 Nov 2015 20:22

Instrument :

BNA\_F

ClientSampleId :

P001-BF006-01

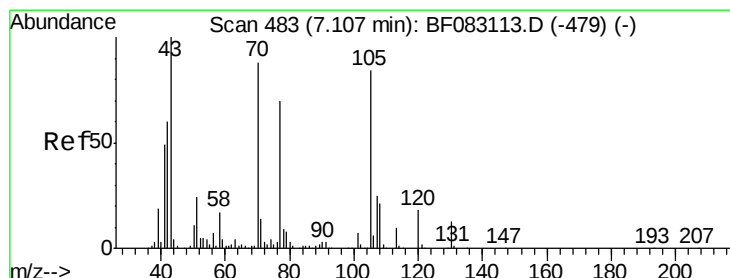
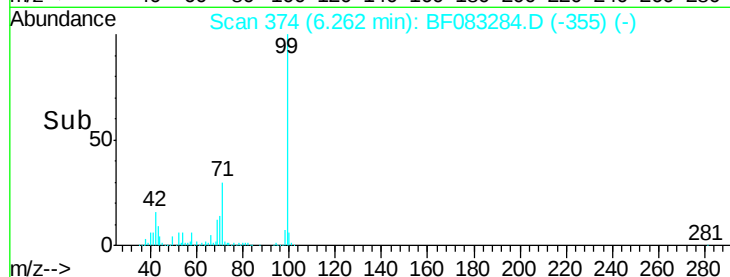
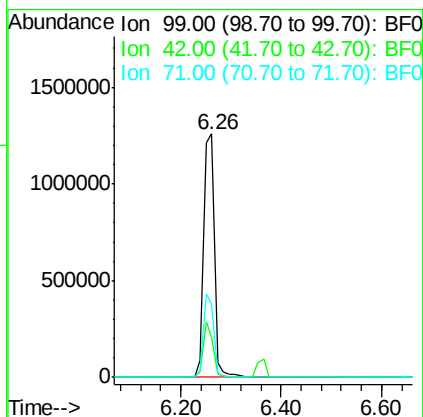
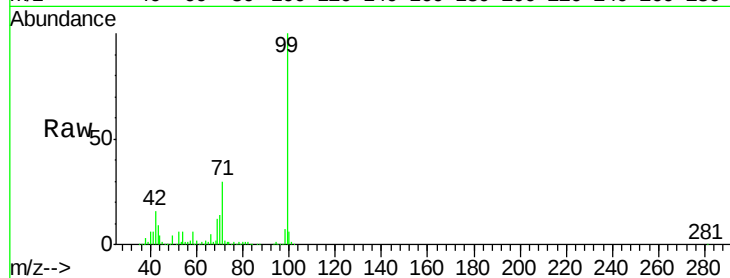
Tgt Ion: 99 Resp: 1874885

Ion Ratio Lower Upper

99 100

42 16.4 17.7 26.5#

71 30.0 30.2 45.4#



#19

n-Nitroso-di-n-propylamine

Concen: 15.32 ng

RT: 7.15 min Scan# 452

Delta R.T. 0.05 min

Lab File: BF083284.D

Acq: 25 Nov 2015 20:22

Tgt Ion: 70 Resp: 147997

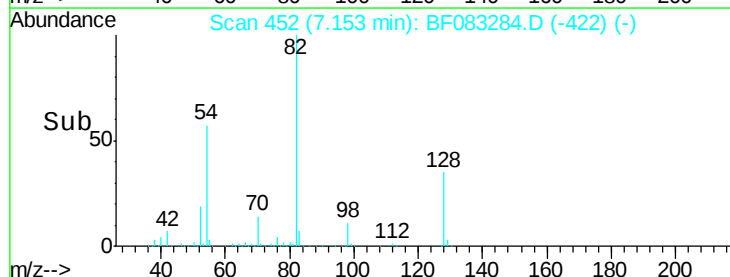
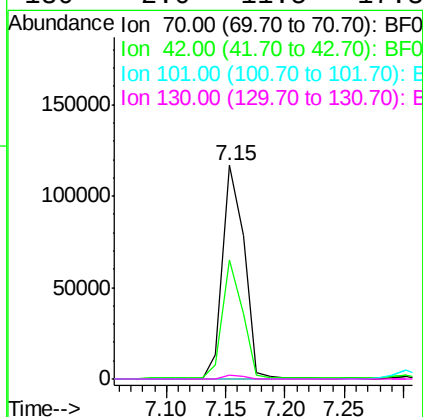
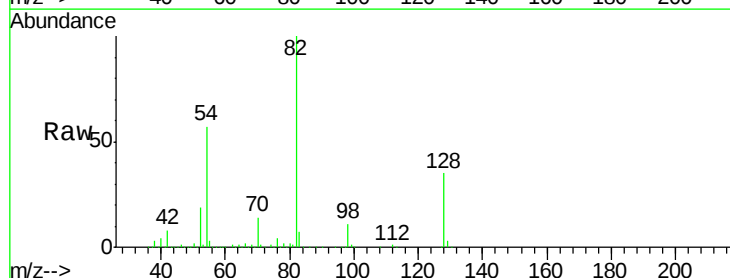
Ion Ratio Lower Upper

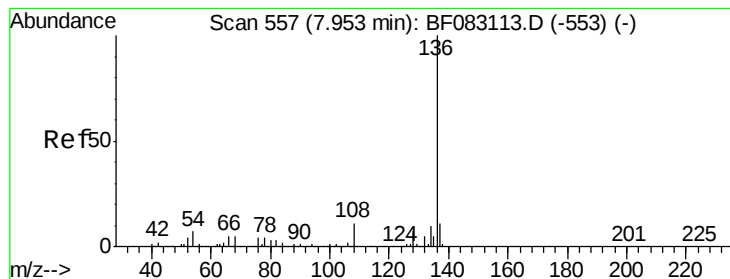
70 100

42 55.7 54.5 81.7

101 0.0 6.6 9.8#

130 2.0 11.5 17.3#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.87 min Scan# 515

Delta R.T. -0.08 min

Lab File: BF083284.D

Acq: 25 Nov 2015 20:22

Instrument :

BNA\_F

ClientSampleId :

P001-BF006-01

Tgt Ion:136 Resp: 625127

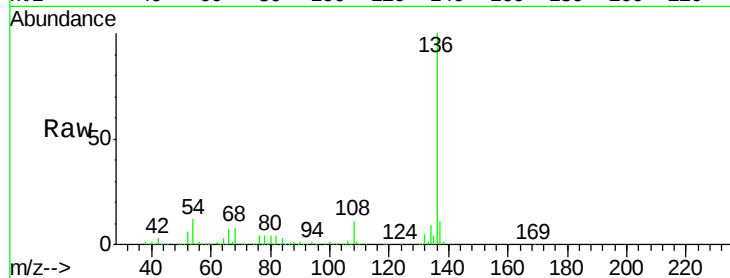
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 11.9 5.8 8.6#

68 7.8 3.8 5.8#

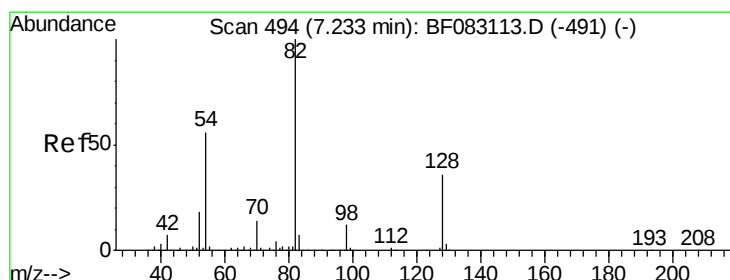
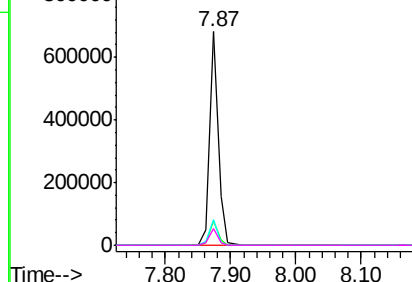
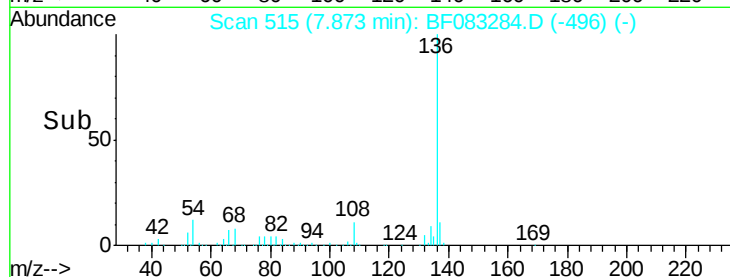


Abundance Ion 136.00 (135.70 to 136.70): E

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: 82.45 ng

RT: 7.15 min Scan# 452

Delta R.T. -0.08 min

Lab File: BF083284.D

Acq: 25 Nov 2015 20:22

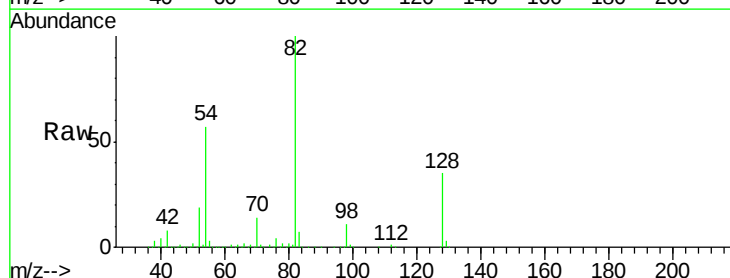
Tgt Ion: 82 Resp: 1127957

Ion Ratio Lower Upper

82 100

128 35.3 28.5 42.7

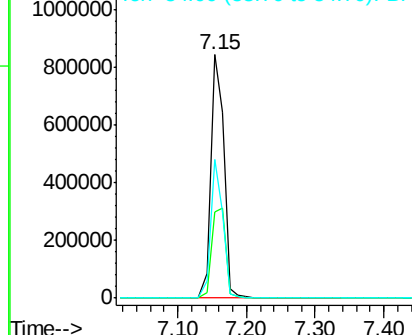
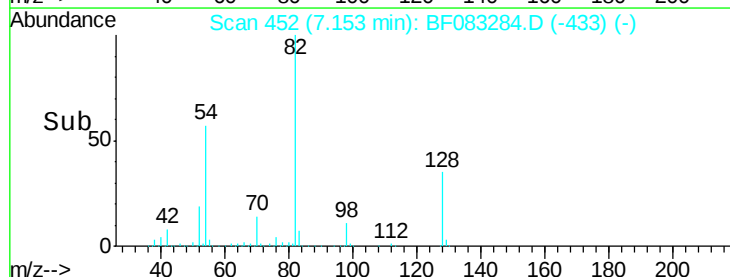
54 57.2 44.6 67.0

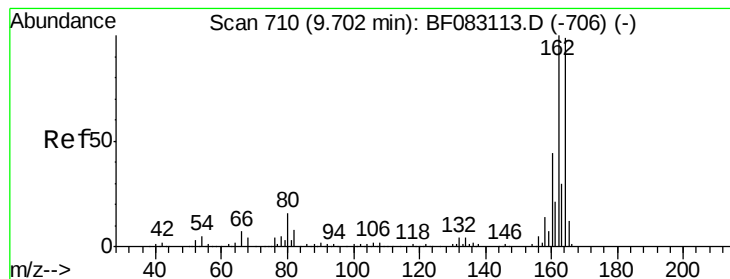


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 9.62 min Scan# 668

Delta R.T. -0.08 min

Lab File: BF083284.D

Acq: 25 Nov 2015 20:22

Instrument :

BNA\_F

ClientSampleId :

P001-BF006-01

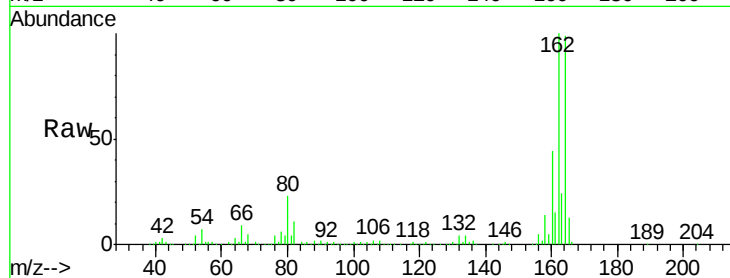
Tgt Ion:164 Resp: 315079

Ion Ratio Lower Upper

164 100

162 100.9 81.2 121.8

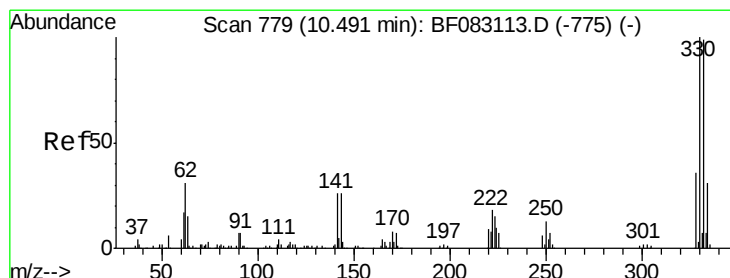
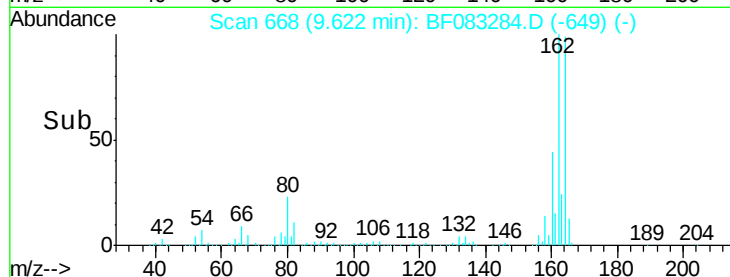
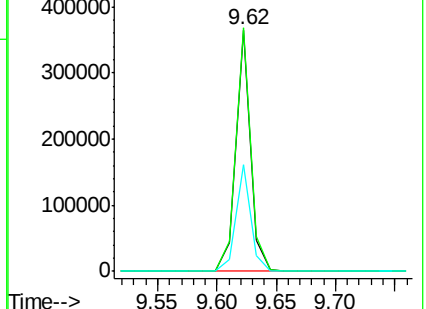
160 44.2 35.6 53.4



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: 109.47 ng

RT: 10.41 min Scan# 737

Delta R.T. -0.08 min

Lab File: BF083284.D

Acq: 25 Nov 2015 20:22

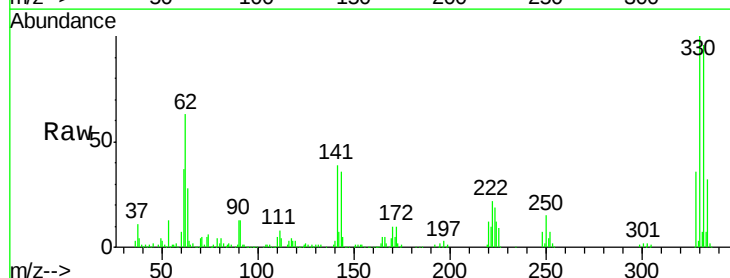
Tgt Ion:330 Resp: 352864

Ion Ratio Lower Upper

330 100

332 95.3 77.7 116.5

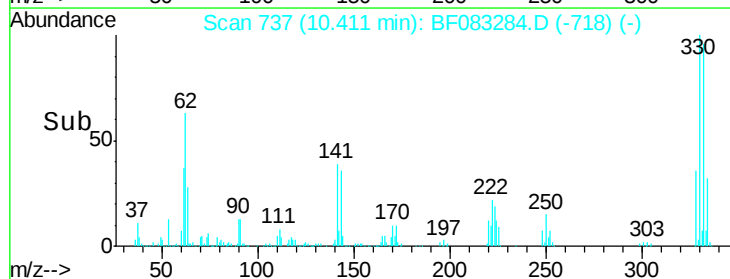
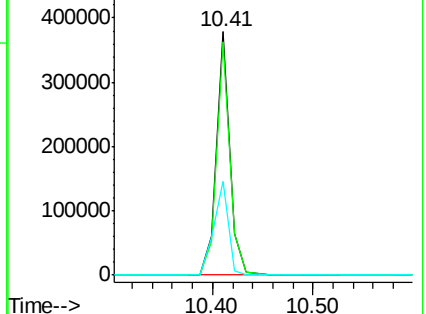
141 42.5 29.7 44.5

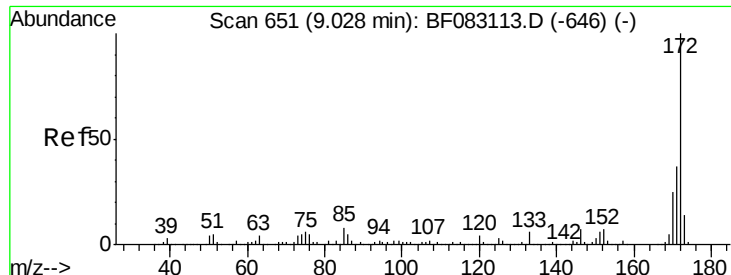


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

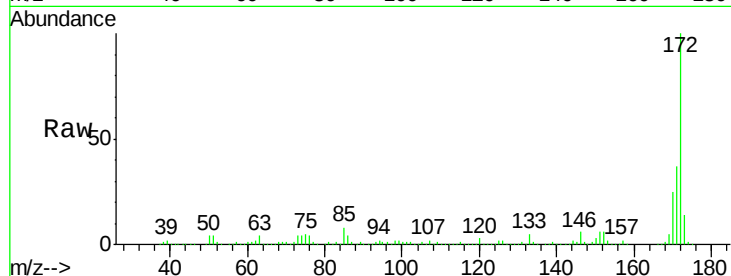




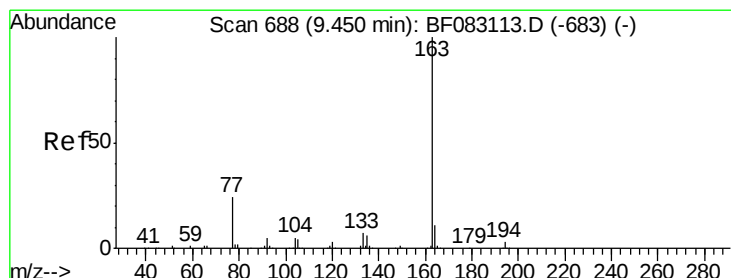
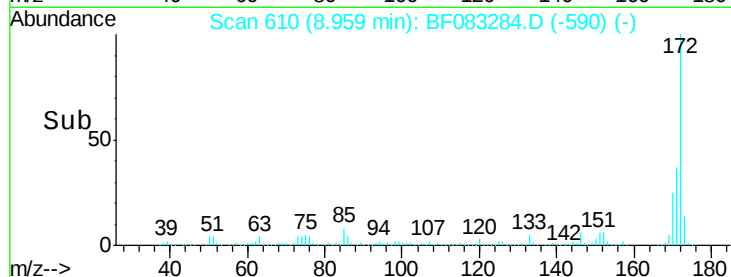
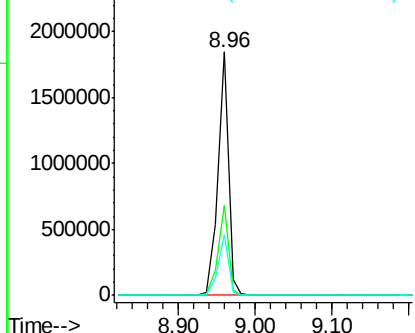
#44  
 2-Fluorobiphenyl  
 Concen: 77.43 ng  
 RT: 8.96 min Scan# 610  
 Delta R.T. -0.07 min  
 Lab File: BF083284.D  
 Acq: 25 Nov 2015 20:22

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-BF006-01

Tgt Ion:172 Resp: 1749638  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 29.5 44.3  
 170 24.9 19.9 29.9

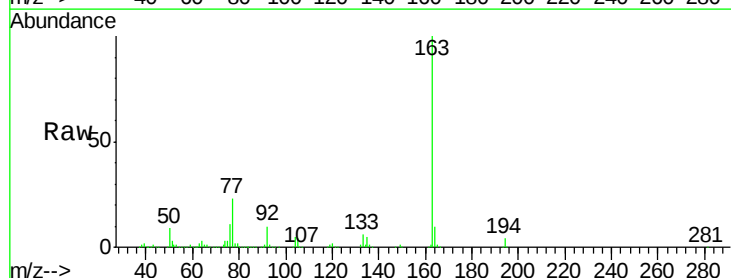


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

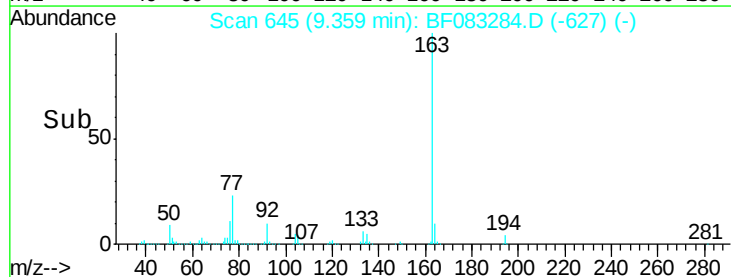
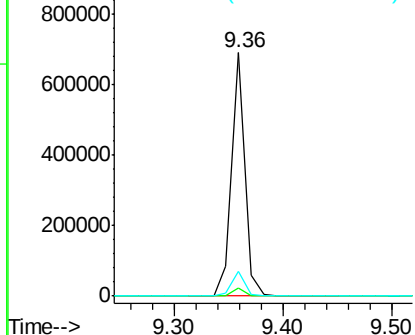


#49  
 Dimethylphthalate  
 Concen: 23.92 ng  
 RT: 9.36 min Scan# 645  
 Delta R.T. -0.09 min  
 Lab File: BF083284.D  
 Acq: 25 Nov 2015 20:22

Tgt Ion:163 Resp: 580260  
 Ion Ratio Lower Upper  
 163 100  
 194 3.5 2.6 4.0  
 164 10.1 8.6 12.8



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

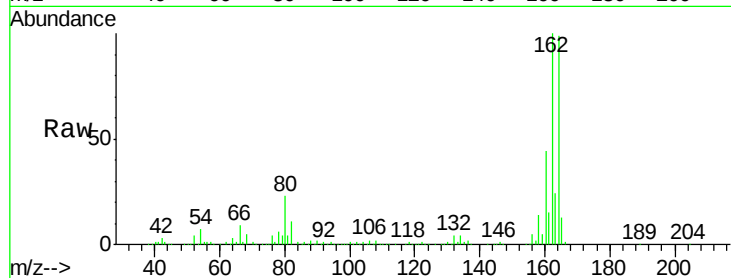




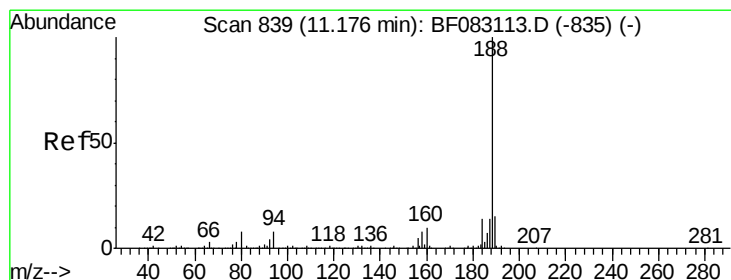
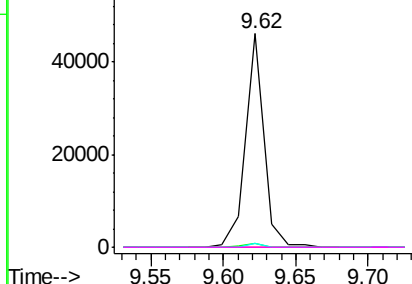
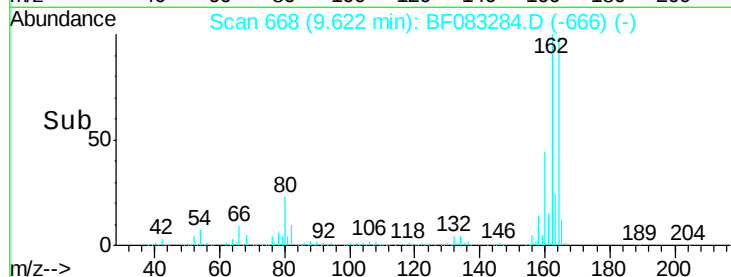
#56  
2,4-Dinitrotoluene  
Concen: 5.91 ng  
RT: 9.62 min Scan# 668  
Delta R.T. -0.27 min  
Lab File: BF083284.D  
Acq: 25 Nov 2015 20:22

Instrument :  
BNA\_F  
ClientSampleId :  
P001-BF006-01

Tgt Ion:165 Resp: 40751  
Ion Ratio Lower Upper  
165 100  
63 1.6 54.5 81.7#  
89 1.5 77.3 115.9#  
182 0.0 1.8 2.6#

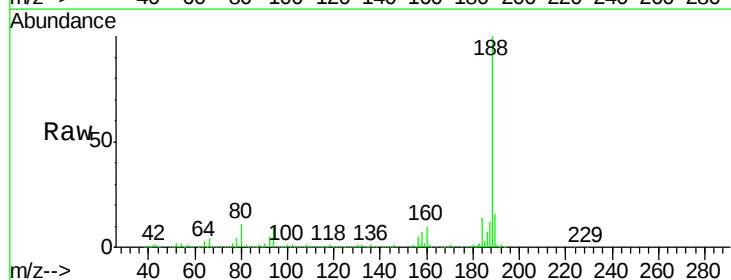


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0  
Ion 182.00 (181.70 to 182.70): E

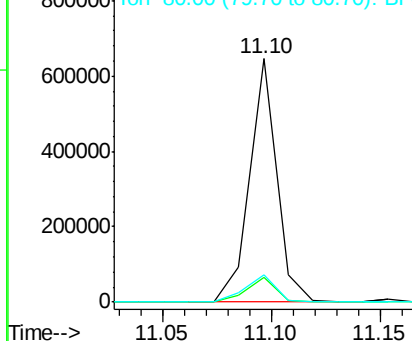
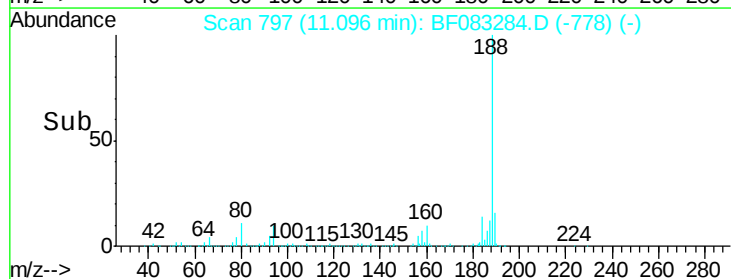


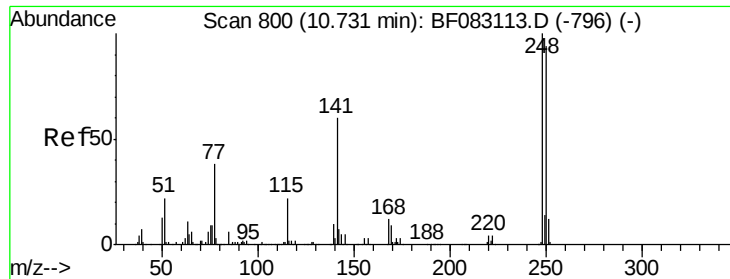
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.10 min Scan# 797  
Delta R.T. -0.08 min  
Lab File: BF083284.D  
Acq: 25 Nov 2015 20:22

Tgt Ion:188 Resp: 561272  
Ion Ratio Lower Upper  
188 100  
94 10.1 6.0 9.0#  
80 11.4 6.7 10.1#



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

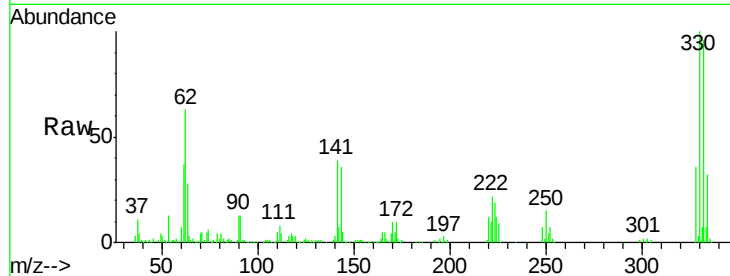




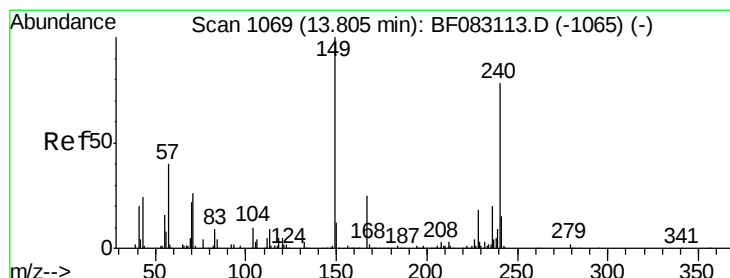
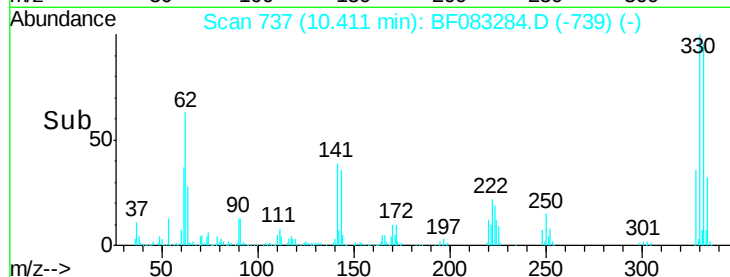
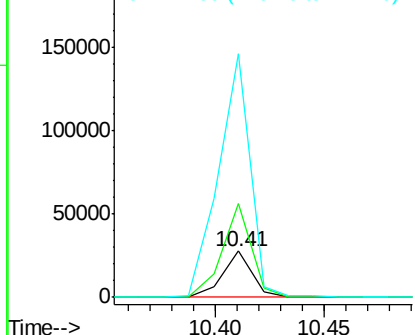
#66  
4-Bromophenyl-phenylether  
Concen: 4.13 ng  
RT: 10.41 min Scan# 737  
Delta R.T. -0.32 min  
Lab File: BF083284.D  
Acq: 25 Nov 2015 20:22

Instrument :  
BNA\_F  
ClientSampleId :  
P001-BF006-01

Tgt Ion:248 Resp: 25725  
Ion Ratio Lower Upper  
248 100  
250 203.3 75.4 113.2#  
141 529.9 48.1 72.1#

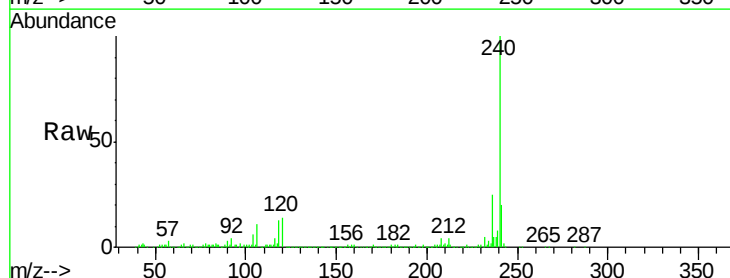


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

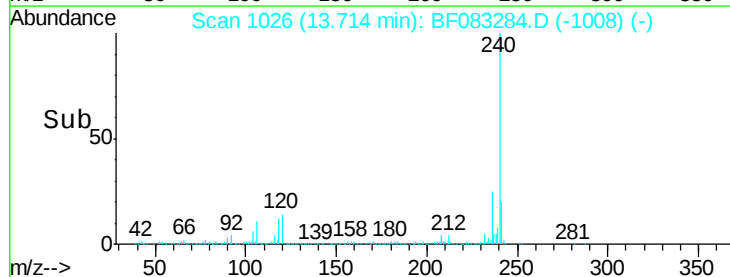
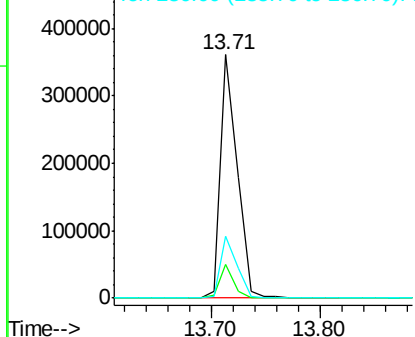


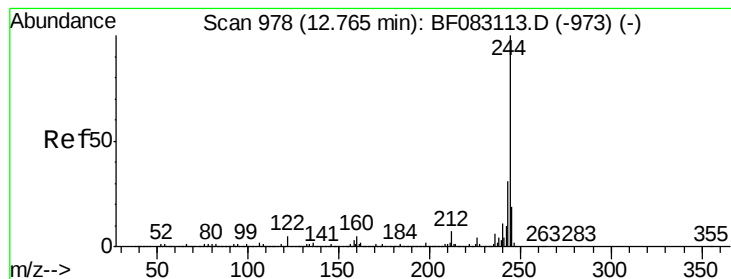
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.71 min Scan# 1026  
Delta R.T. -0.09 min  
Lab File: BF083284.D  
Acq: 25 Nov 2015 20:22

Tgt Ion:240 Resp: 390563  
Ion Ratio Lower Upper  
240 100  
120 13.7 5.4 8.2#  
236 25.4 20.6 31.0



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: 84.63 ng

RT: 12.69 min Scan# 936

Delta R.T. -0.08 min

Lab File: BF083284.D

Acq: 25 Nov 2015 20:22

Instrument :

BNA\_F

ClientSampleId :

P001-BF006-01

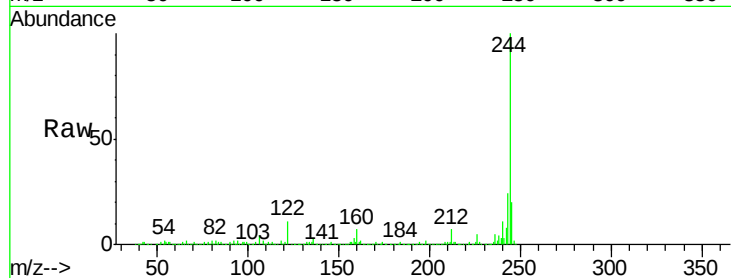
Tgt Ion:244 Resp: 1403647

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.2

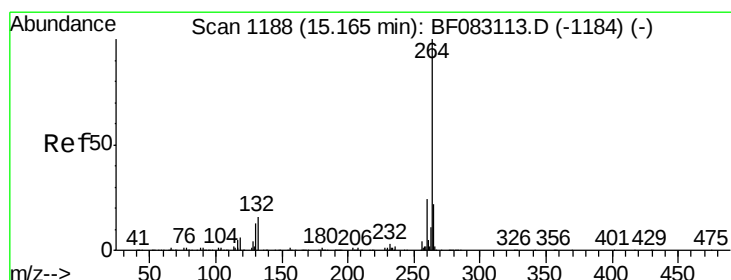
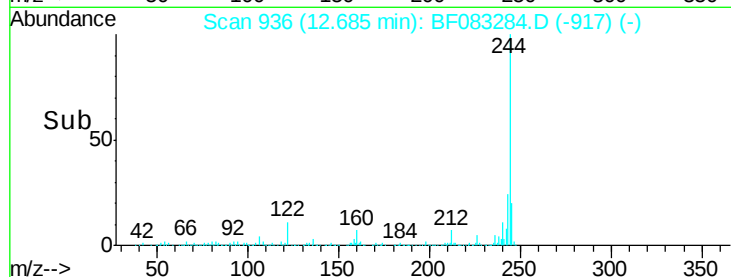
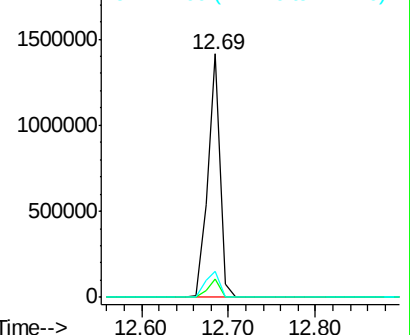
122 10.6 4.3 6.5#



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: 15.06 min Scan# 1144

Delta R.T. -0.10 min

Lab File: BF083284.D

Acq: 25 Nov 2015 20:22

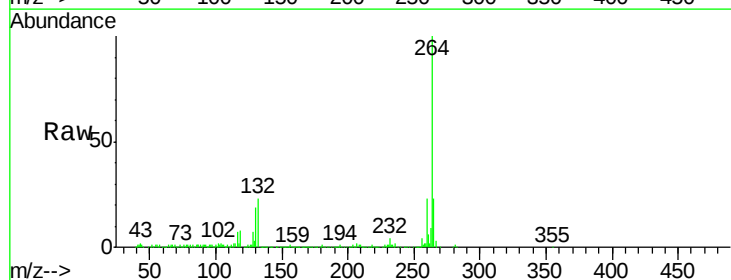
Tgt Ion:264 Resp: 366469

Ion Ratio Lower Upper

264 100

260 23.1 19.1 28.7

265 22.6 18.2 27.4



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

