

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102215\  
 Data File : BF082467.D  
 Acq On : 23 Oct 2015 1:49  
 Operator : UM/IZ  
 Sample : G4119-18  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB15-08-22.5-23

Quant Time: Oct 23 04:01:56 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 21 13:20:24 2015  
 Response via : Initial Calibration

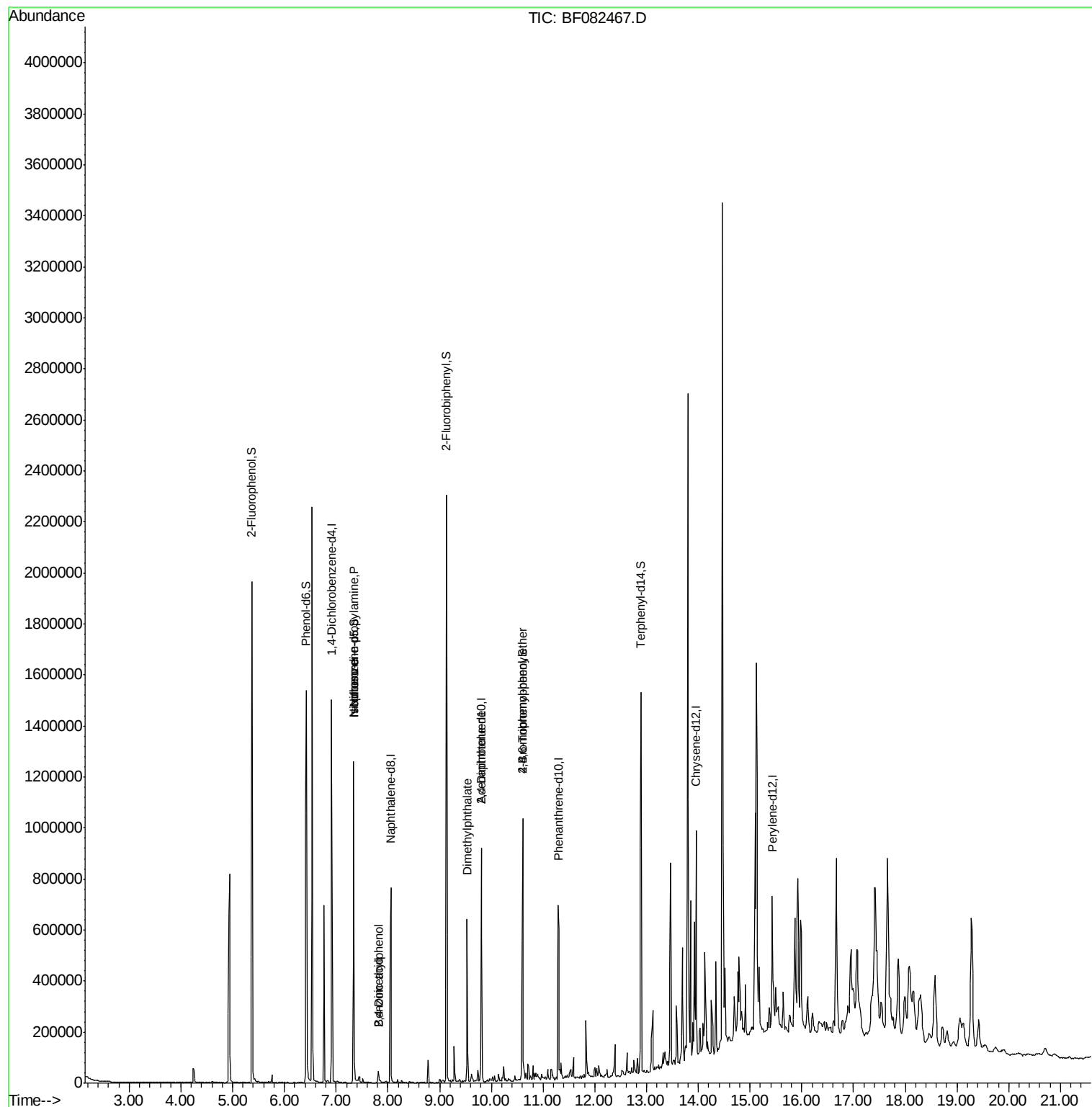
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.91  | 152  | 282232   | 20.00     | ng    | 0.14     |
| 21) Naphthalene-d8             | 8.06  | 136  | 500318   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.81  | 164  | 228929   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.29 | 188  | 380990   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.96 | 240  | 329889   | 20.00     | ng    | -0.06    |
| 86) Perylene-d12               | 15.43 | 264  | 243179   | 20.00     | ng    | -0.10    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.37  | 112  | 551791   | 39.46     | ng    | 0.01     |
| 7) Phenol-d6                   | 6.42  | 99   | 742836   | 40.82     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.34  | 82   | 461798   | 61.98     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.61 | 330  | 136147   | 63.41     | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.13  | 172  | 785498   | 56.90     | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.89 | 244  | 589703   | 47.37     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 7.34  | 70   | 61488    | 4.81      | ng    | # 77     |
| 25) Isophorone                 | 7.34  | 82   | 336943   | 22.41     | ng    | # 66     |
| 27) 2,4-Dimethylphenol         | 7.82  | 122  | 17792    | 2.74      | ng    | # 2      |
| 32) Benzoic acid               | 7.82  | 122  | 17790    | 4.09      | ng    | 94       |
| 49) Dimethylphthalate          | 9.53  | 163  | 253845   | 15.75     | ng    | 99       |
| 55) 4-Nitrophenol              | 9.70  | 139  | 228      | Below Cal | #     | 23       |
| 56) 2,4-Dinitrotoluene         | 9.81  | 165  | 29114    | 6.85      | ng    | # 23     |
| 66) 4-Bromophenyl-phenylether  | 10.61 | 248  | 10596    | 2.78      | ng    | # 1      |

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

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102215\  
Data File : BF082467.D  
Acq On : 23 Oct 2015 1:49  
Operator : UM/IZ  
Sample : G4119-18  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB15-08-22.5-23

Quant Time: Oct 23 04:01:56 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 21 13:20:24 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.91 min Scan# 418

Delta R.T. 0.14 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

Instrument :

BNA\_F

ClientSampleId :

SB15-08-22.5-23

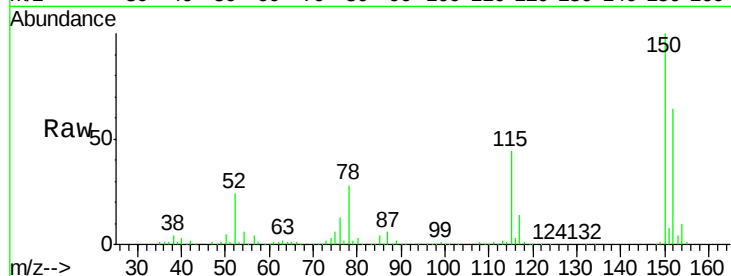
Tgt Ion:152 Resp: 282232

Ion Ratio Lower Upper

152 100

150 157.3 129.0 193.4

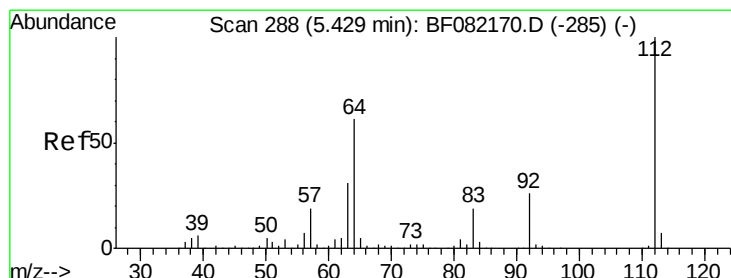
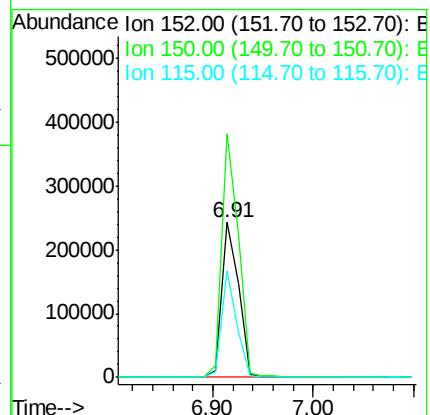
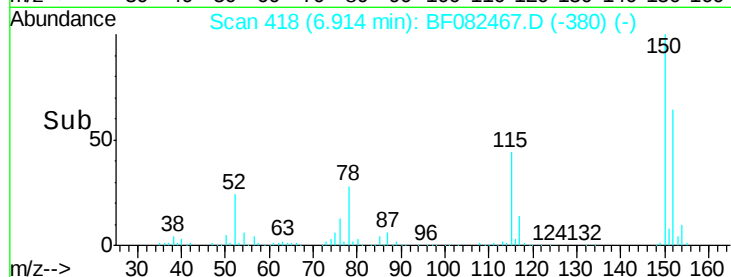
115 68.6 52.1 78.1



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: 39.46 ng

RT: 5.37 min Scan# 283

Delta R.T. 0.01 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

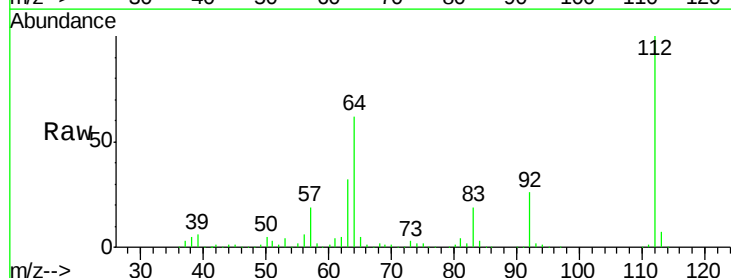
Tgt Ion:112 Resp: 551791

Ion Ratio Lower Upper

112 100

64 61.5 48.6 73.0

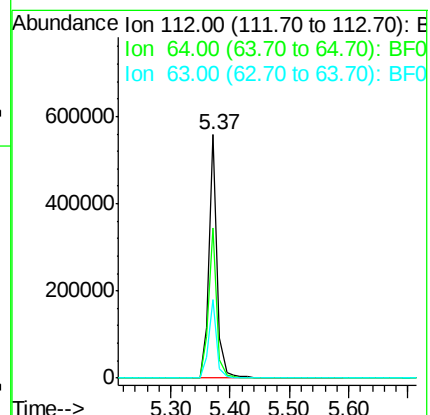
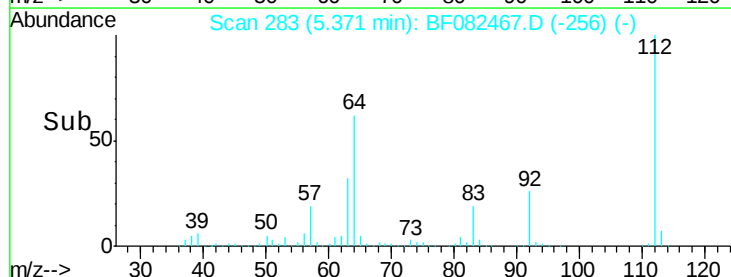
63 32.3 25.1 37.7



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: 40.82 ng

RT: 6.42 min Scan# 375

Delta R.T. -0.00 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

Instrument :

BNA\_F

ClientSampleId :

SB15-08-22.5-23

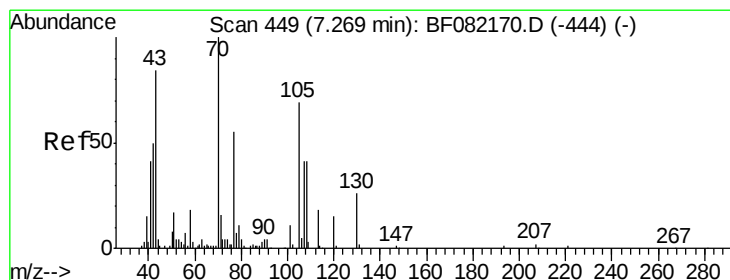
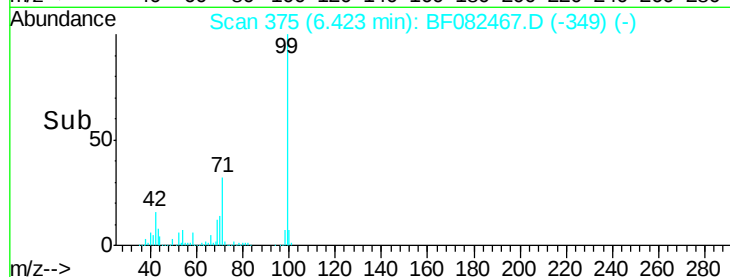
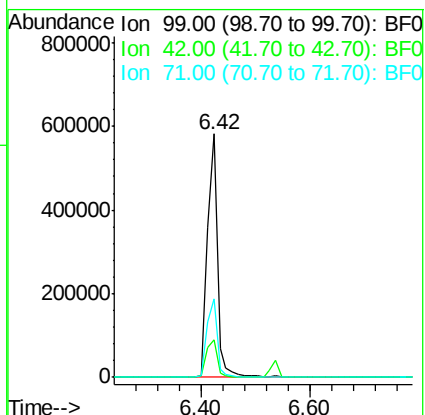
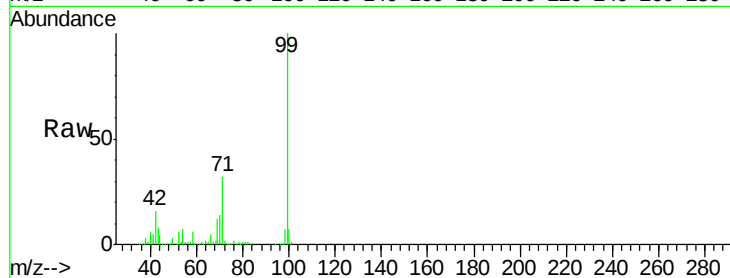
Tgt Ion: 99 Resp: 742836

Ion Ratio Lower Upper

99 100

42 15.6 13.2 19.8

71 32.3 25.6 38.4



#19

n-Nitroso-di-n-propylamine

Concen: 4.81 ng

RT: 7.34 min Scan# 455

Delta R.T. 0.14 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

Tgt Ion: 70 Resp: 61488

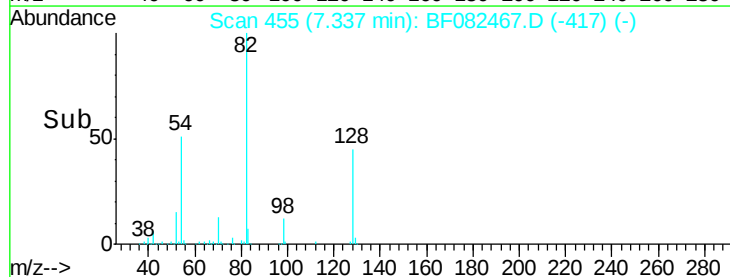
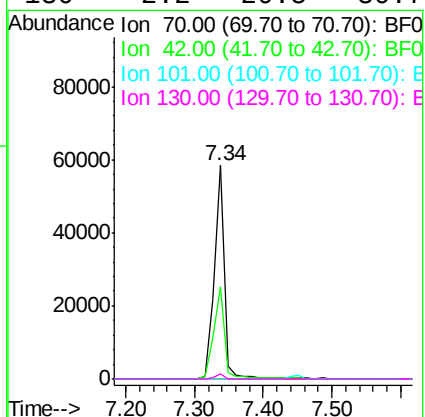
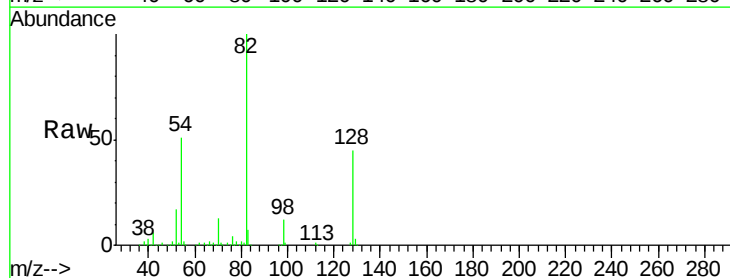
Ion Ratio Lower Upper

70 100

42 43.0 39.8 59.8

101 0.0 8.6 13.0#

130 2.2 20.5 30.7#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 518

Delta R.T. -0.01 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

Instrument :

BNA\_F

ClientSampleId :

SB15-08-22.5-23

Tgt Ion:136 Resp: 500318

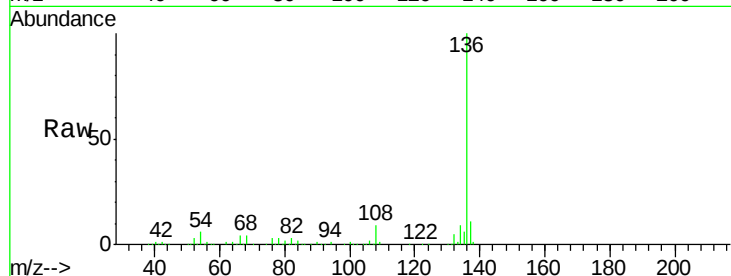
Ion Ratio Lower Upper

136 100

137 10.7 9.0 13.6

54 5.8 7.5 11.3#

68 4.0 4.6 7.0#

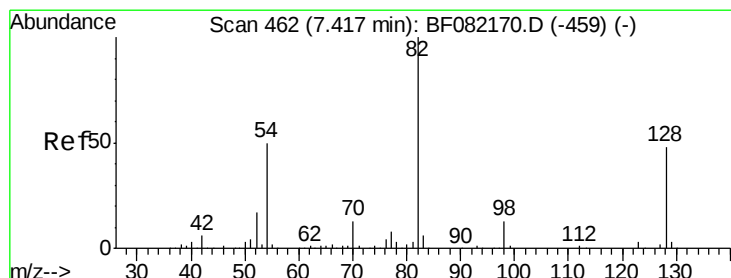
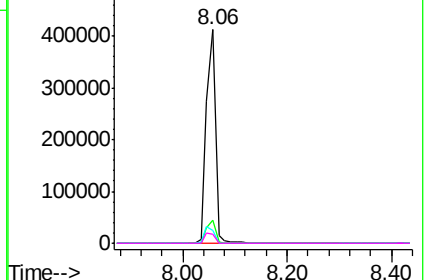
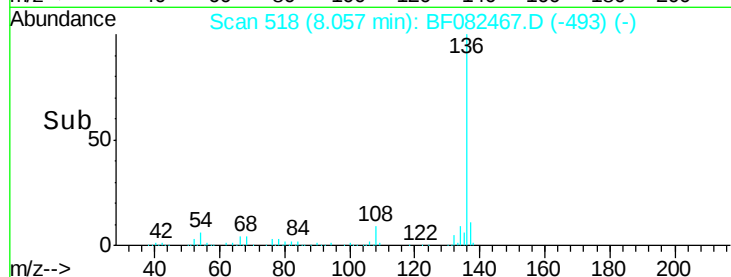


Abundance Ion 136.00 (135.70 to 136.70): E

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: 61.98 ng

RT: 7.34 min Scan# 455

Delta R.T. -0.01 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

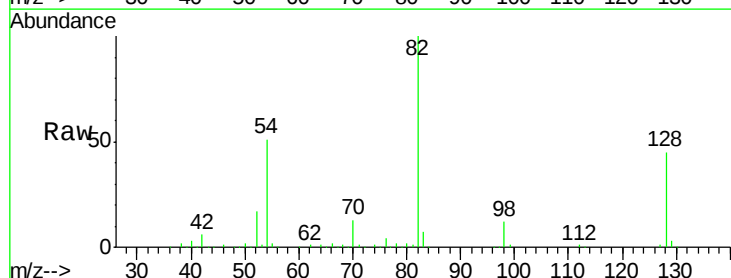
Tgt Ion: 82 Resp: 461798

Ion Ratio Lower Upper

82 100

128 44.8 38.7 58.1

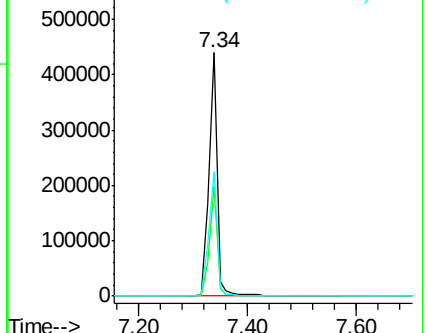
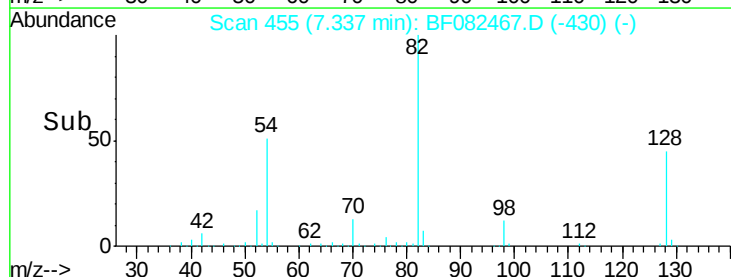
54 51.1 40.1 60.1

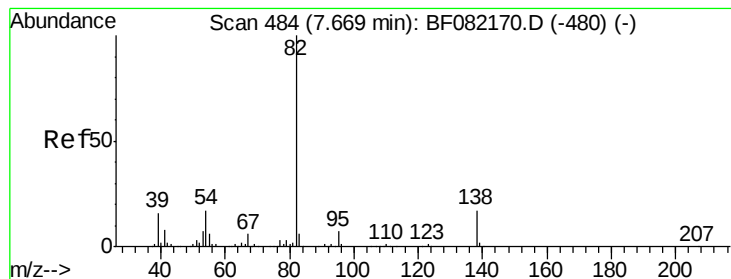


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 22.41 ng

RT: 7.34 min Scan# 455

Delta R.T. -0.27 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

Instrument :

BNA\_F

ClientSampleId :

SB15-08-22.5-23

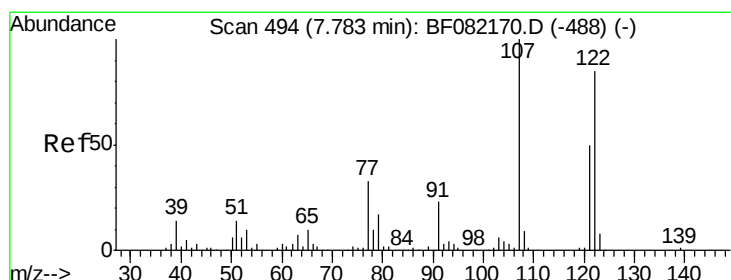
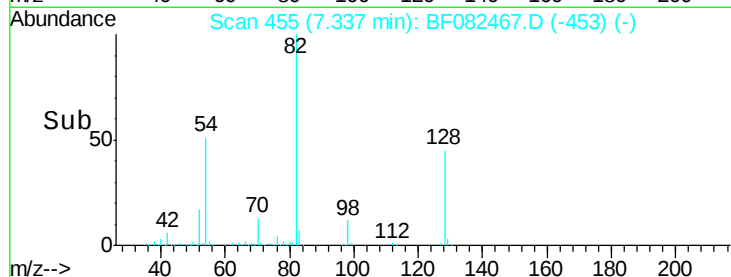
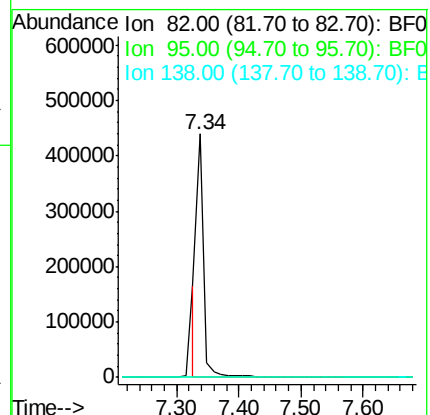
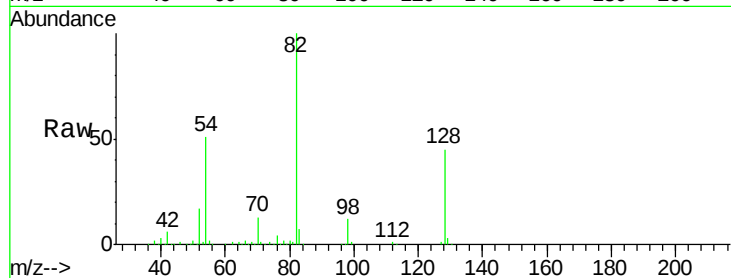
Tgt Ion: 82 Resp: 336943

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

138 0.0 13.6 20.4#



#27

2,4-Dimethylphenol

Concen: 2.74 ng

RT: 7.82 min Scan# 497

Delta R.T. 0.09 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

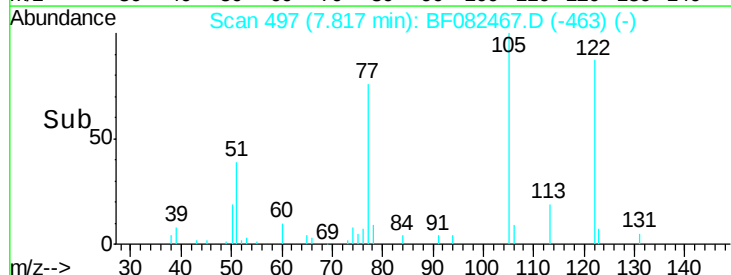
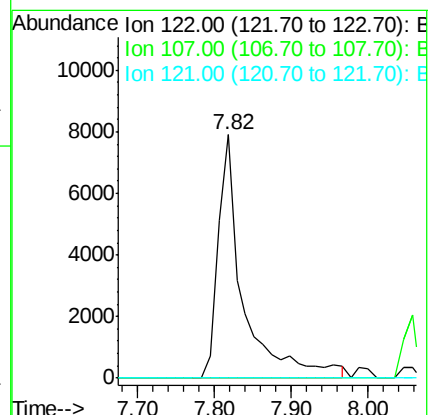
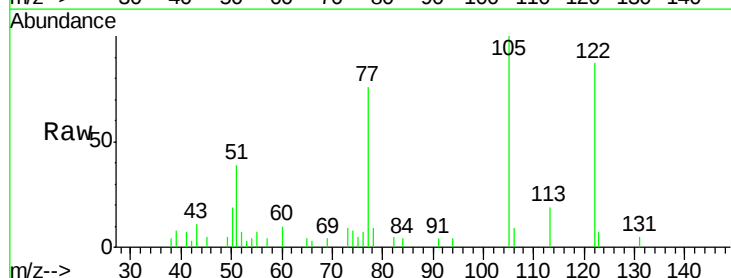
Tgt Ion: 122 Resp: 17792

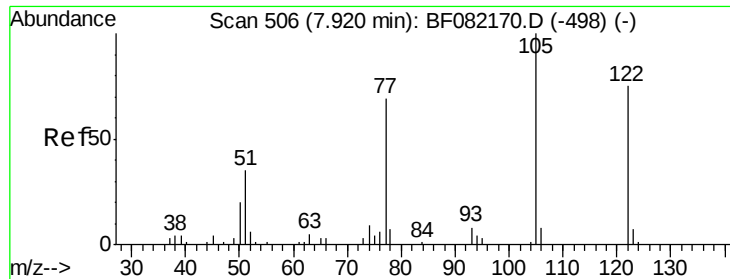
Ion Ratio Lower Upper

122 100

107 0.0 94.0 141.0#

121 0.0 46.8 70.2#





#32

Benzoic acid

Concen: 4.09 ng

RT: 7.82 min Scan# 497

Delta R.T. -0.05 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

Instrument :

BNA\_F

ClientSampleId :

SB15-08-22.5-23

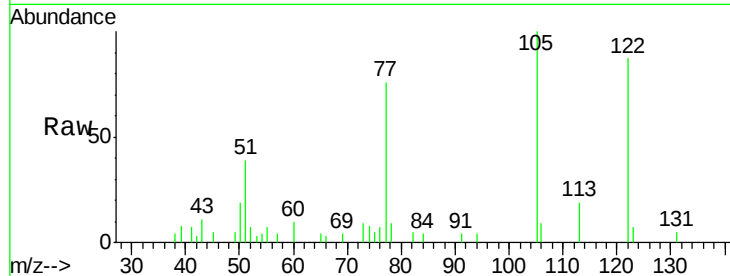
Tgt Ion:122 Resp: 17790

Ion Ratio Lower Upper

122 100

105 115.2 104.4 144.4

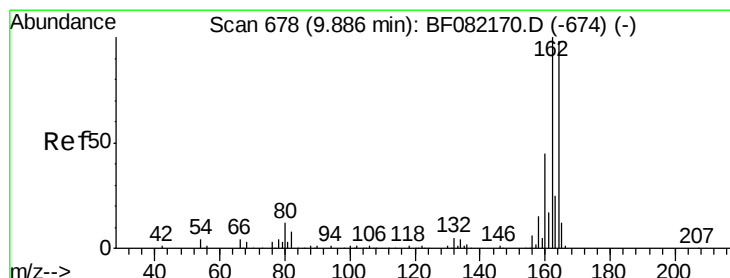
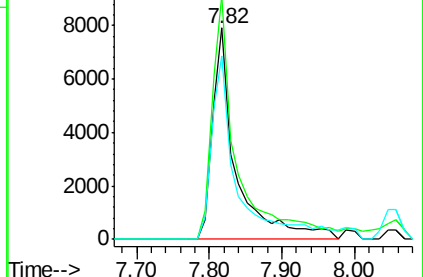
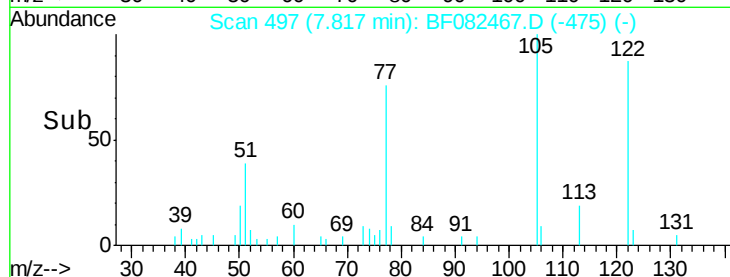
77 87.0 69.0 109.0



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 671

Delta R.T. -0.01 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

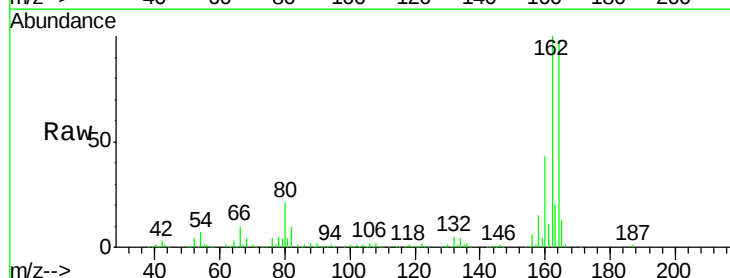
Tgt Ion:164 Resp: 228929

Ion Ratio Lower Upper

164 100

162 101.7 81.6 122.4

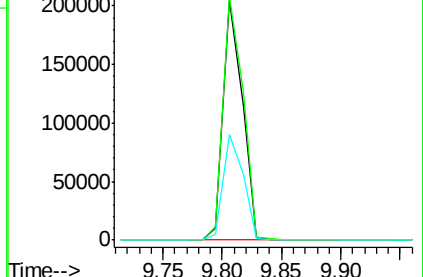
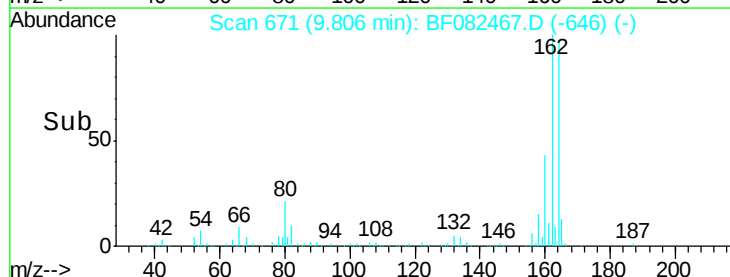
160 44.1 36.4 54.6

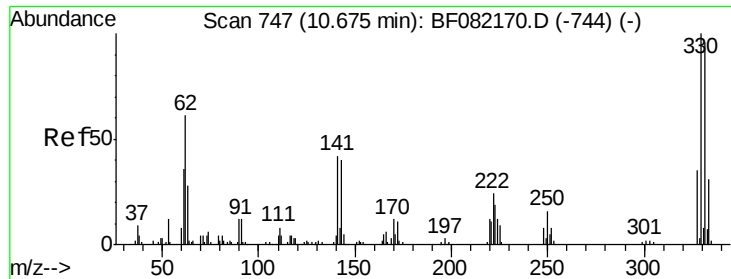


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

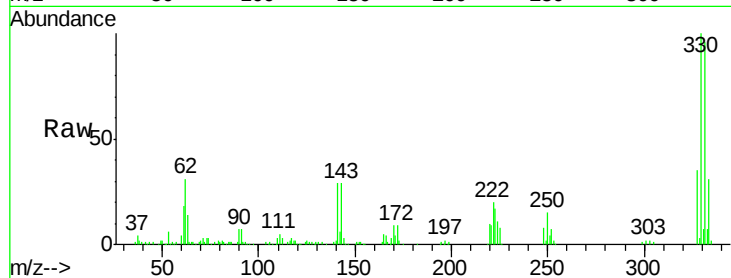




#41  
 2,4,6-Tribromophenol  
 Concen: 63.41 ng  
 RT: 10.61 min Scan# 741  
 Delta R.T. -0.01 min  
 Lab File: BF082467.D  
 Acq: 23 Oct 2015 1:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB15-08-22.5-23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.7  | 77.1  | 115.7 |
| 141     | 41.1  | 29.8  | 44.8  |

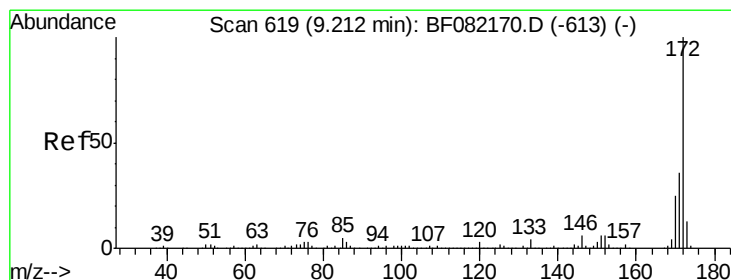
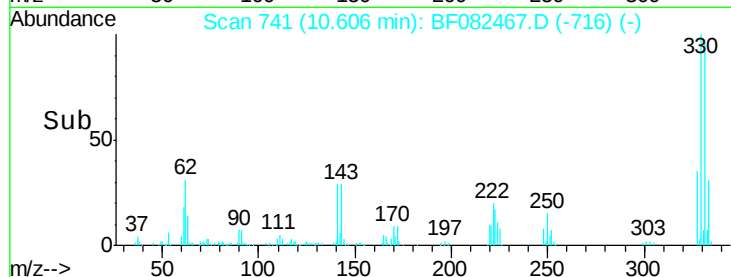
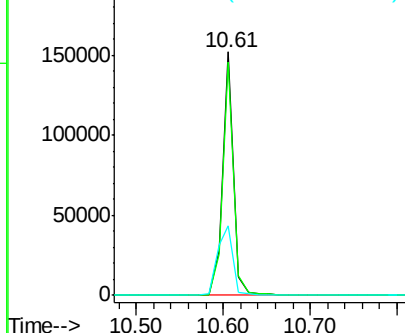


Abundance

Ion 329.80 (329.50 to 330.50): E

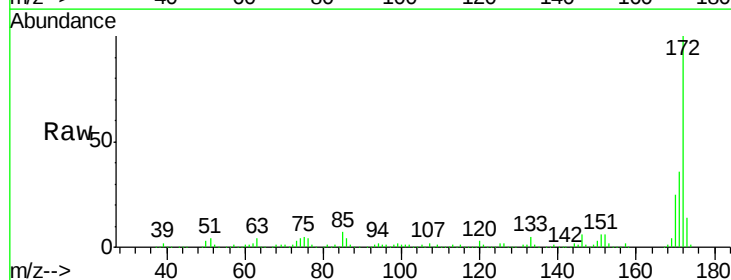
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 56.90 ng  
 RT: 9.13 min Scan# 612  
 Delta R.T. -0.01 min  
 Lab File: BF082467.D  
 Acq: 23 Oct 2015 1:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 28.6  | 42.8  |
| 170     | 24.7  | 19.7  | 29.5  |

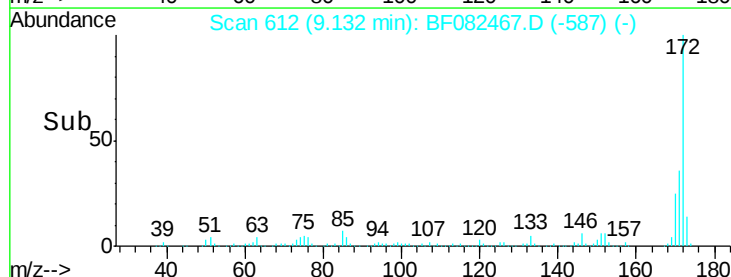
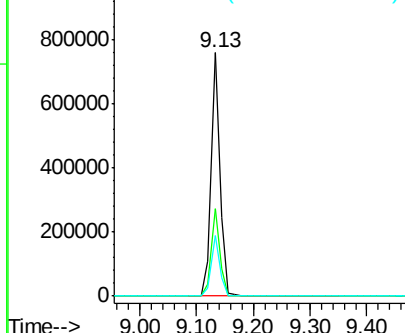


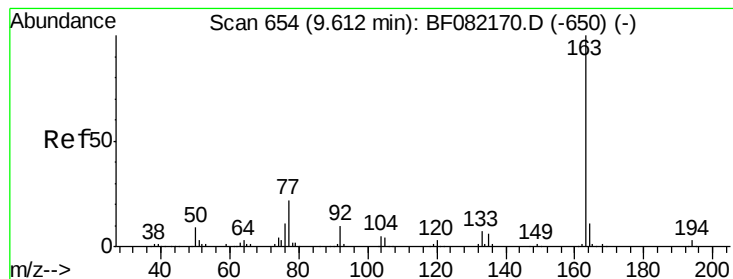
Abundance

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: 15.75 ng

RT: 9.53 min Scan# 647

Delta R.T. -0.02 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

Instrument :

BNA\_F

ClientSampleId :

SB15-08-22.5-23

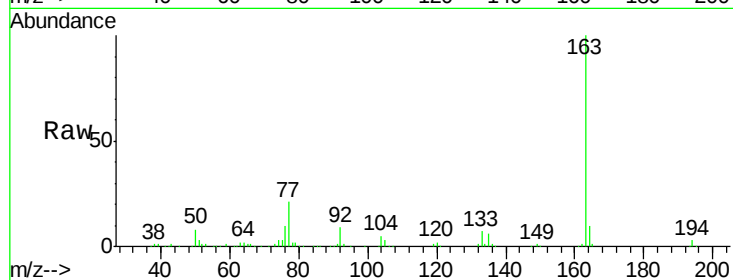
Tgt Ion:163 Resp: 253845

Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

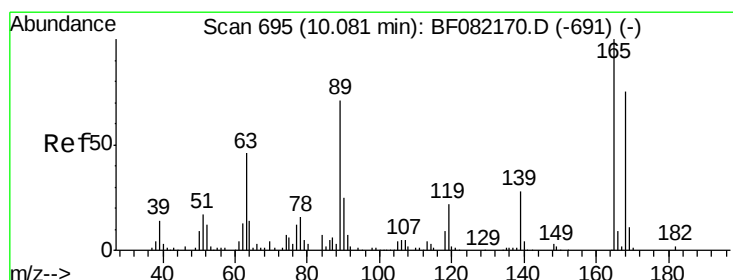
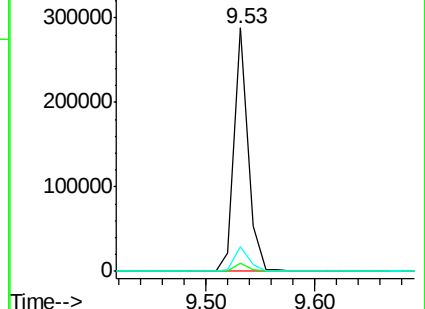
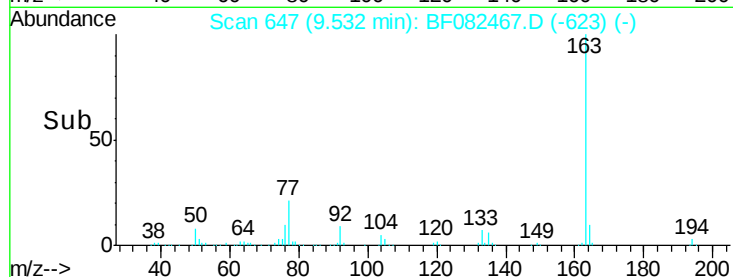
164 10.2 8.5 12.7



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: 6.85 ng

RT: 9.81 min Scan# 671

Delta R.T. -0.22 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

Tgt Ion:165 Resp: 29114

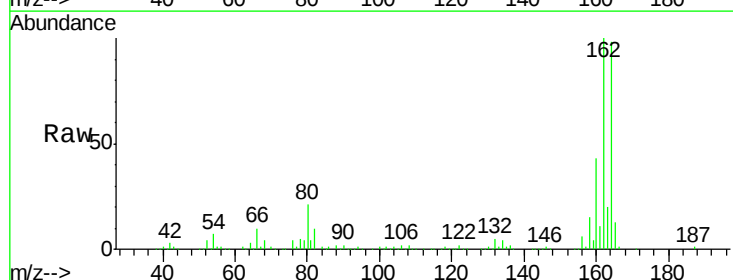
Ion Ratio Lower Upper

165 100

63 1.4 38.6 58.0#

89 1.5 57.0 85.6#

182 0.0 1.8 2.6#

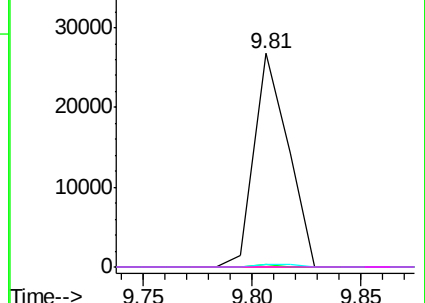
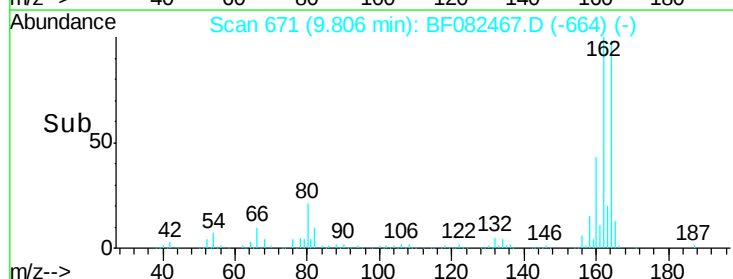


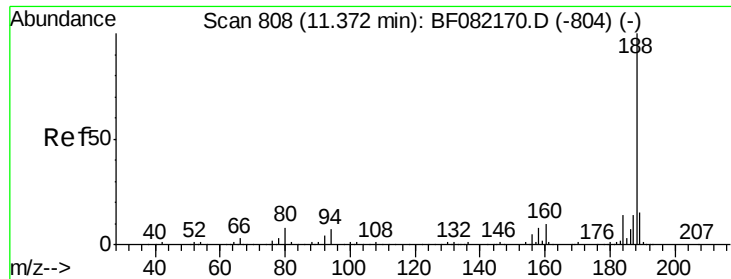
Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.29 min Scan# 801

Delta R.T. -0.01 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

Instrument :

BNA\_F

ClientSampleId :

SB15-08-22.5-23

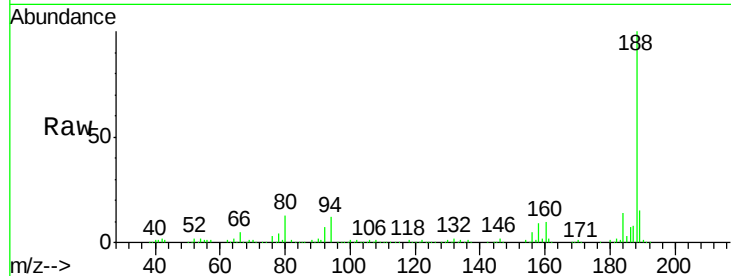
Tgt Ion:188 Resp: 380990

Ion Ratio Lower Upper

188 100

94 11.6 5.8 8.6#

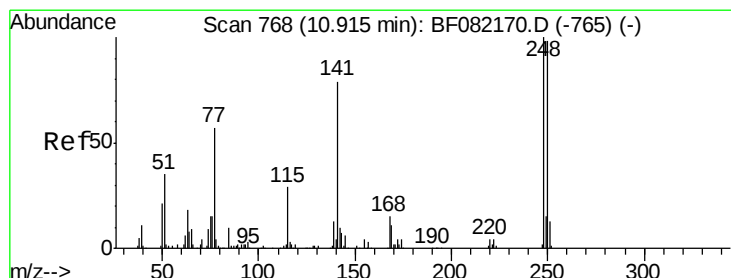
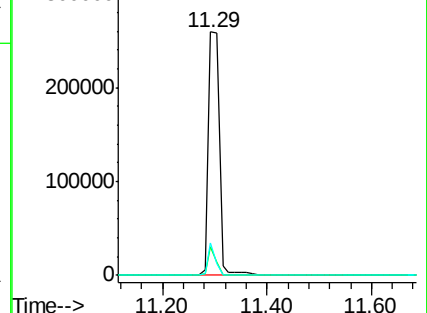
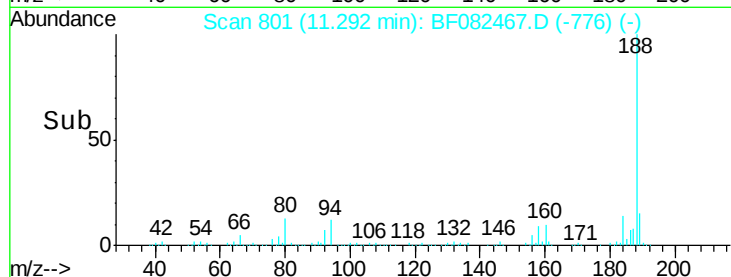
80 13.1 6.4 9.6#



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: 2.78 ng

RT: 10.61 min Scan# 741

Delta R.T. -0.25 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

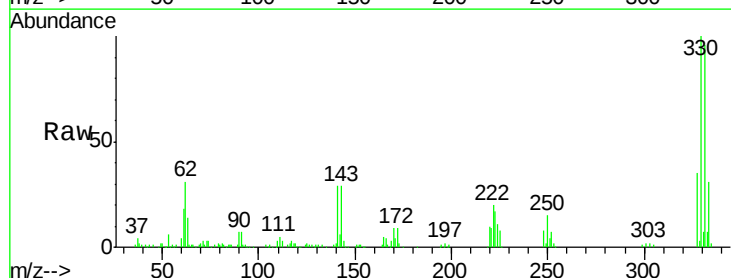
Tgt Ion:248 Resp: 10596

Ion Ratio Lower Upper

248 100

250 198.7 78.6 117.8#

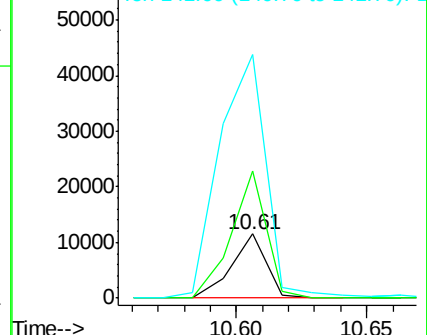
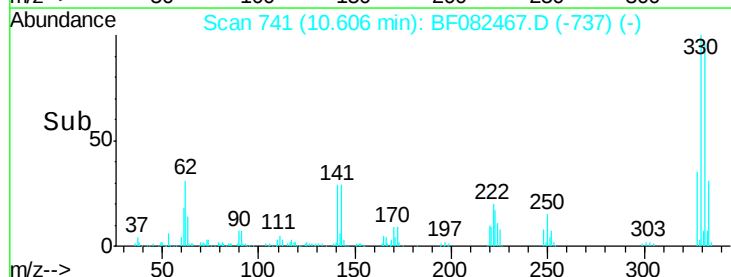
141 380.9 63.3 94.9#

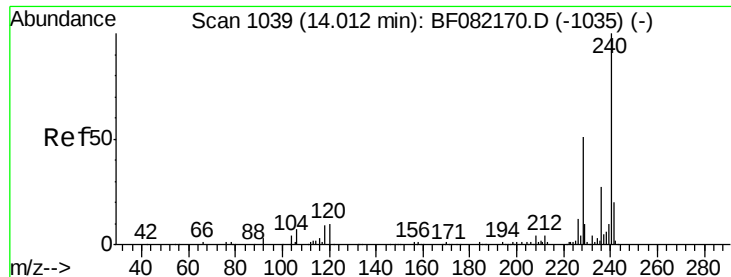


Abundance Ion 248.00 (247.70 to 248.70): E

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: 13.96 min Scan# 1034

Delta R.T. -0.06 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

Instrument :

BNA\_F

ClientSampleId :

SB15-08-22.5-23

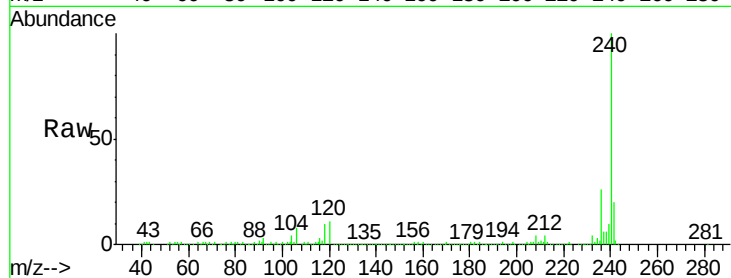
Tgt Ion:240 Resp: 329889

Ion Ratio Lower Upper

240 100

120 10.9 8.1 12.1

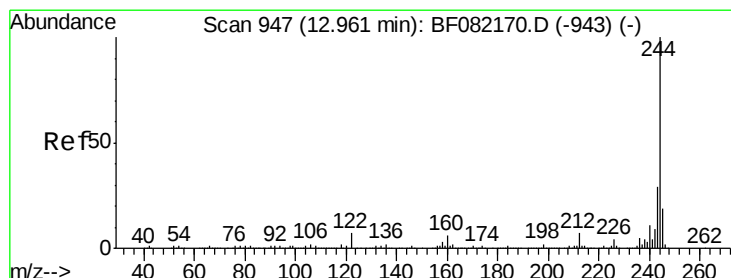
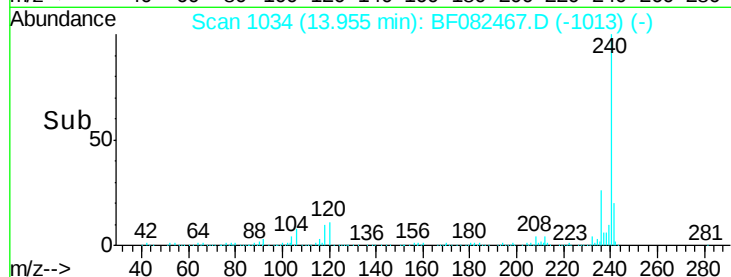
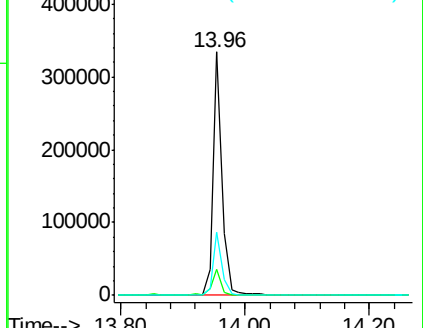
236 25.7 21.3 31.9



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: 47.37 ng

RT: 12.89 min Scan# 941

Delta R.T. -0.01 min

Lab File: BF082467.D

Acq: 23 Oct 2015 1:49

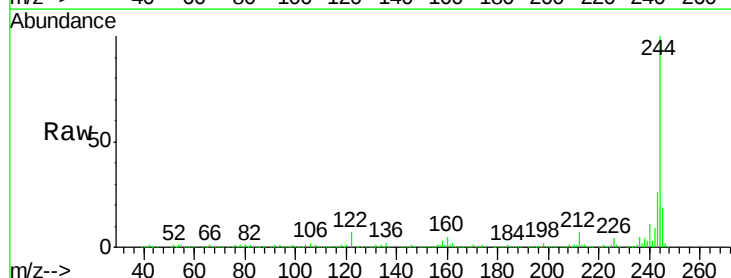
Tgt Ion:244 Resp: 589703

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.6

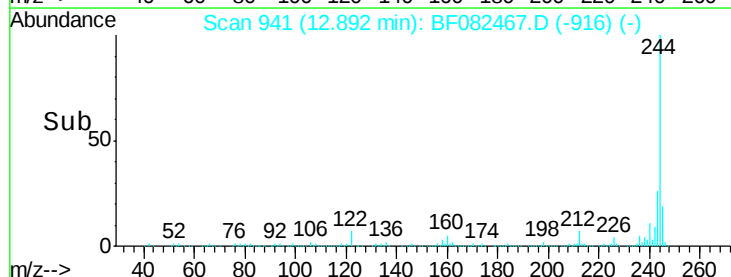
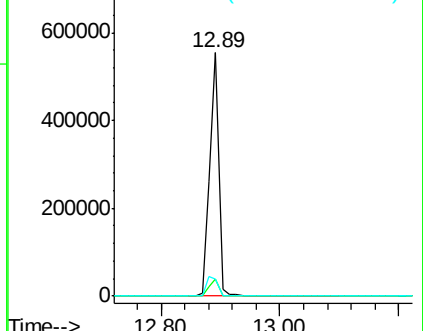
122 6.8 5.9 8.9

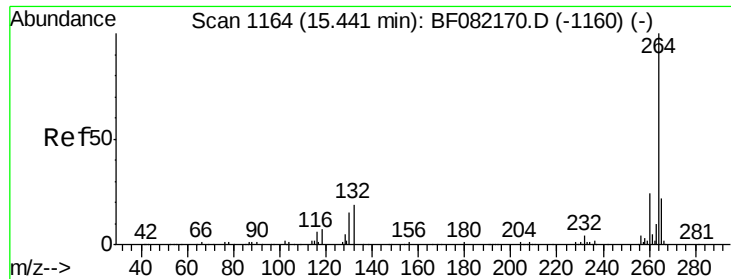


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.43 min Scan# 1163  
Delta R.T. -0.10 min  
Lab File: BF082467.D  
Acq: 23 Oct 2015 1:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB15-08-22.5-23

Tgt Ion: 264 Resp: 243179  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.0 28.6  
265 21.7 17.3 25.9

