

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF102715\  
 Data File : BF082563.D  
 Acq On : 27 Oct 2015 23:09  
 Operator : UM/IZ  
 Sample : G4157-08  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WOOD-2

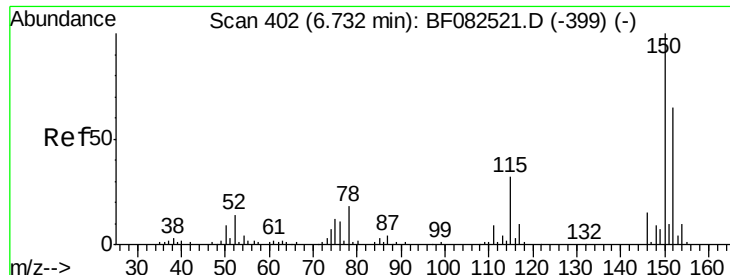
Quant Time: Oct 28 00:09:18 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 27 02:43:58 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 332340   | 20.00  | ng    | 0.14     |
| 21) Naphthalene-d8             | 8.00  | 136  | 348556   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.75  | 164  | 155294   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.23 | 188  | 279990   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.88 | 240  | 184971   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 15.29 | 264  | 164430   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.33  | 112  | 564232   | 33.52  | ng    | 0.01     |
| 7) Phenol-d6                   | 6.38  | 99   | 640326   | 29.18  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 529295   | 97.96  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 170576   | 146.68 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.07  | 172  | 956986   | 97.99  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.82 | 244  | 727246   | 113.27 | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 17) 2-Methylphenol             | 7.15  | 107  | 95201    | 6.01   | ng    | # 65     |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 71357    | 4.99   | ng    | # 75     |
| 20) 3+4-Methylphenols          | 7.15  | 107  | 95201    | 4.71   | ng    | 84       |
| 25) Isophorone                 | 7.29  | 82   | 515015   | 47.98  | ng    | # 64     |
| 32) Benzoic acid               | 7.81  | 122  | 8877     | 3.35   | ng    | 96       |
| 47) 2-Nitroaniline             | 9.25  | 65   | 60642    | 22.92  | ng    | # 23     |
| 50) 2,6-Dinitrotoluene         | 9.75  | 165  | 19995    | 8.44   | ng    | # 39     |
| 55) 4-Nitrophenol              | 10.03 | 139  | 285      | 6.51   | ng    | # 1      |
| 61) 4-Nitroaniline             | 10.49 | 138  | 46123    | 17.92  | ng    | # 28     |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 13925    | 5.30   | ng    | # 1      |

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

```
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Sample    : G4157-08  
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ALS Vial  : 14      Sample Multiplier: 1
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QLast Update : Tue Oct 27 02:43:58 2015  
Response via : Initial Calibration



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.87 min Scan# 414

Delta R.T. 0.14 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

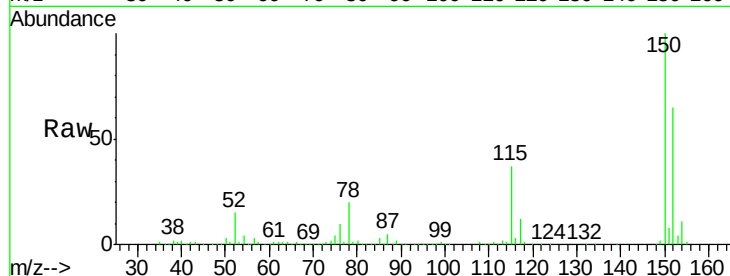
Tgt Ion:152 Resp: 332340

Ion Ratio Lower Upper

152 100

150 154.0 123.4 185.0

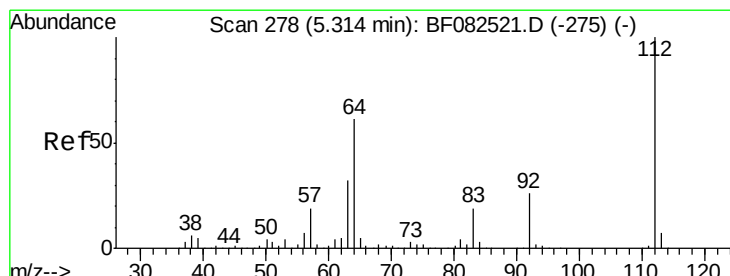
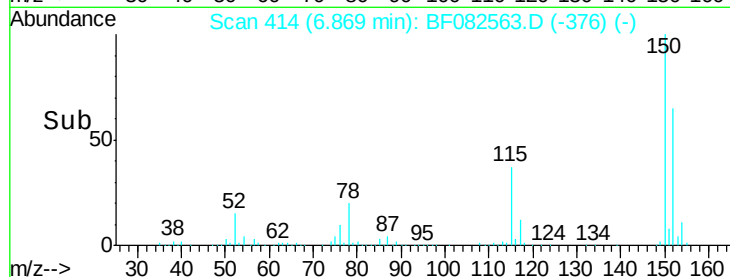
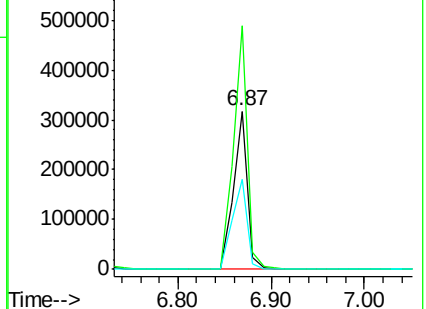
115 57.2 39.0 58.4



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: 33.52 ng

RT: 5.33 min Scan# 279

Delta R.T. 0.01 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

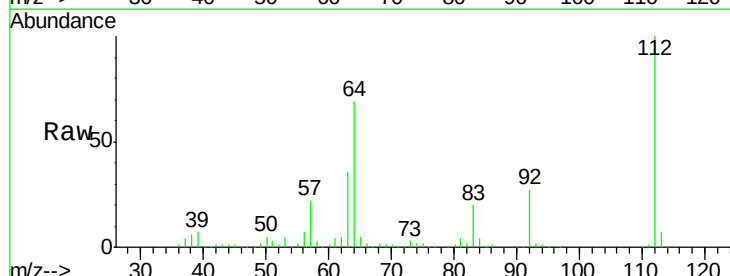
Tgt Ion:112 Resp: 564232

Ion Ratio Lower Upper

112 100

64 68.6 49.0 73.4

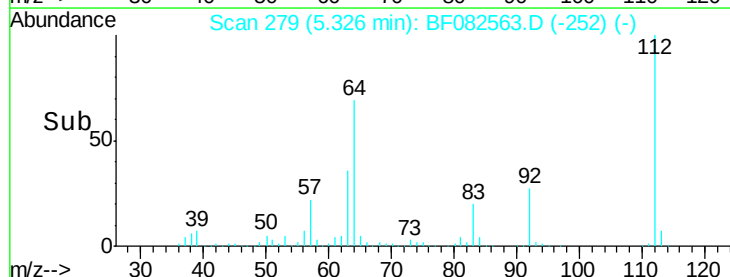
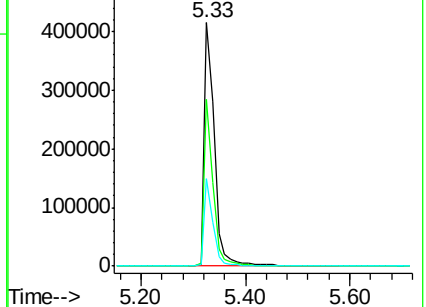
63 36.1 25.8 38.6

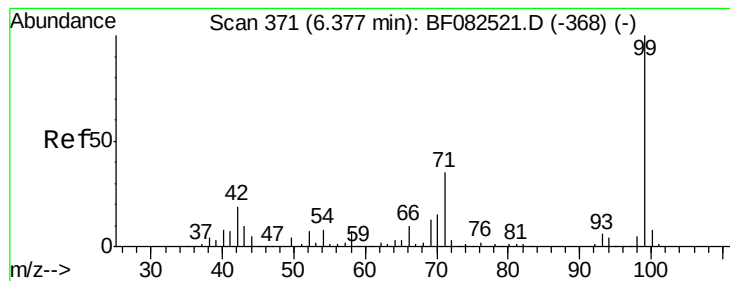


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 29.18 ng

RT: 6.38 min Scan# 371

Delta R.T. 0.00 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

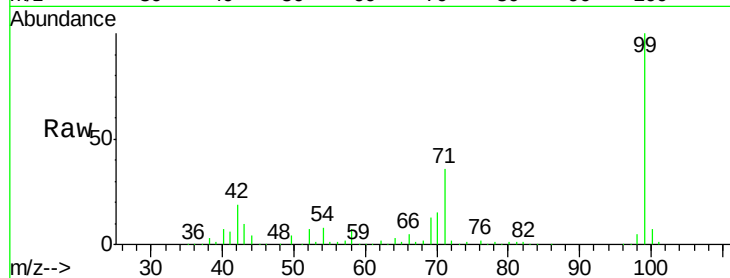
Tgt Ion: 99 Resp: 640326

Ion Ratio Lower Upper

99 100

42 19.1 15.1 22.7

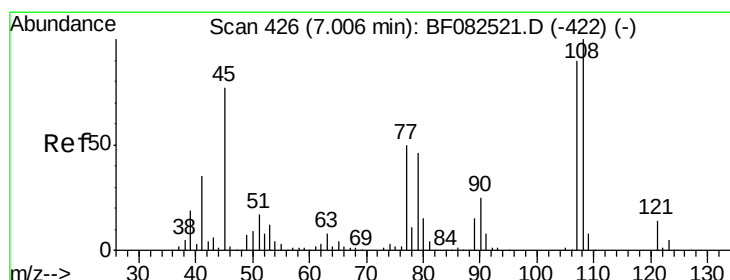
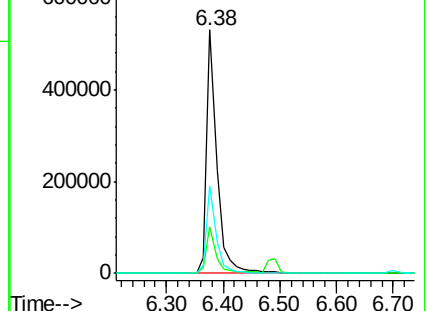
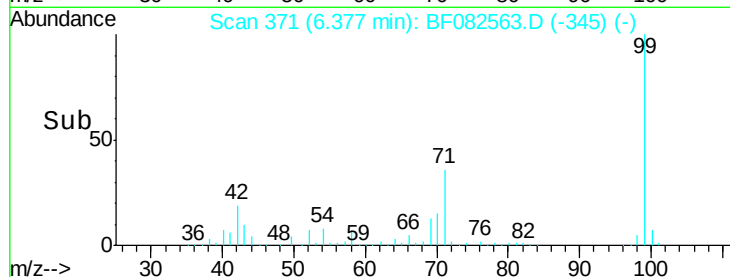
71 35.8 28.2 42.2



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



#17

2-Methylphenol

Concen: 6.01 ng

RT: 7.15 min Scan# 439

Delta R.T. 0.15 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

Tgt Ion: 107 Resp: 95201

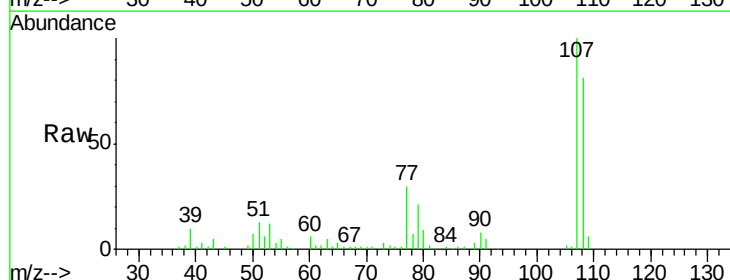
Ion Ratio Lower Upper

107 100

108 80.5 89.4 134.2#

77 30.0 44.8 67.2#

79 21.1 42.1 63.1#

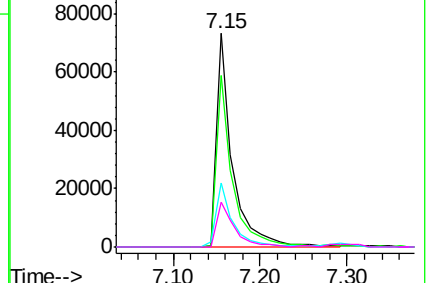
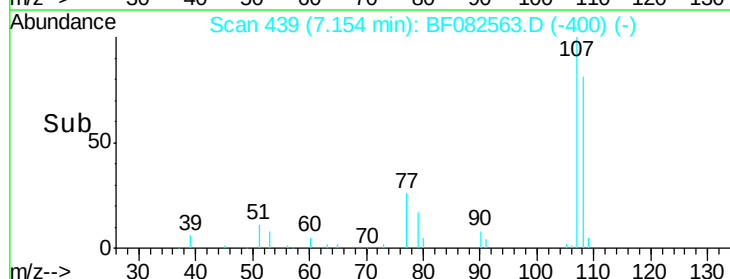


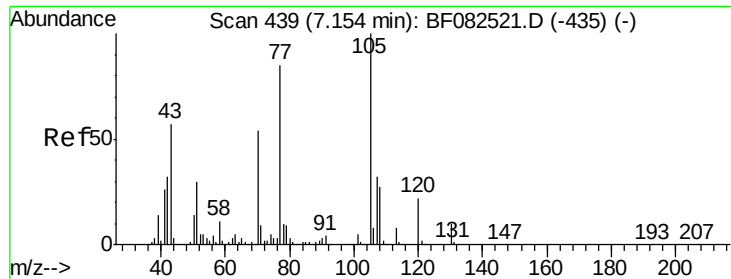
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0

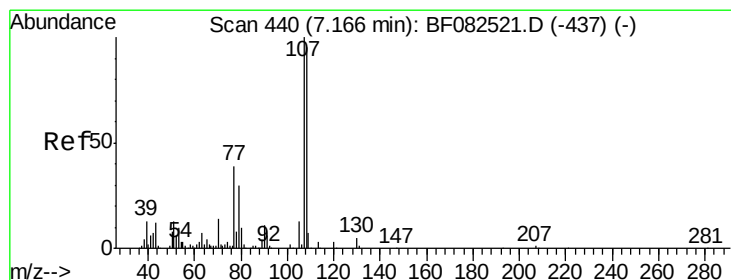
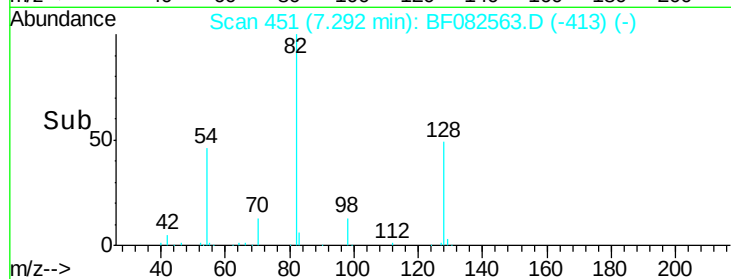
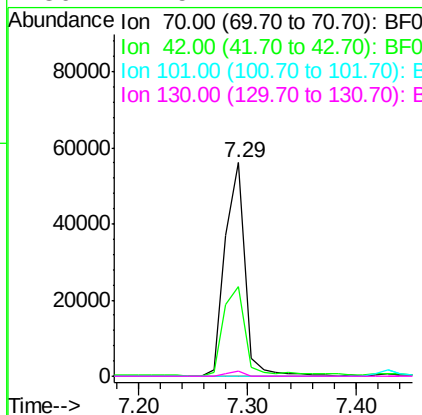
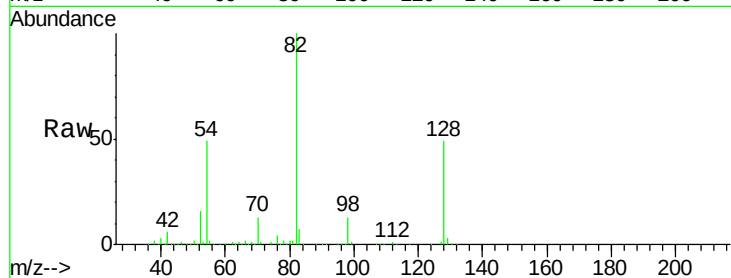




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.99 ng  
RT: 7.29 min Scan# 451  
Delta R.T. 0.14 min  
Lab File: BF082563.D  
Acq: 27 Oct 2015 23:09

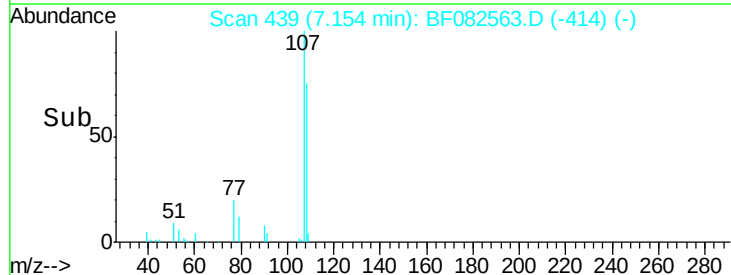
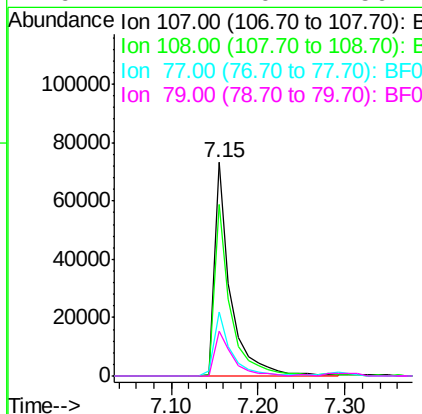
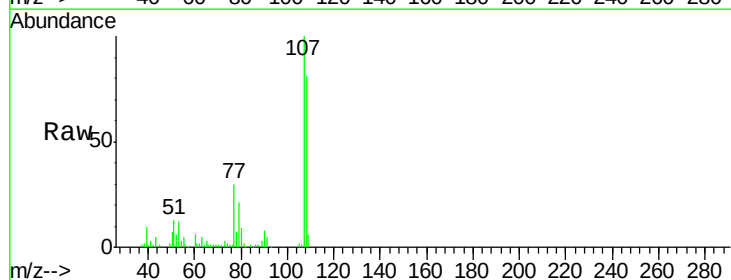
Instrument :  
BNA\_F  
ClientSampleId :  
WOOD-2

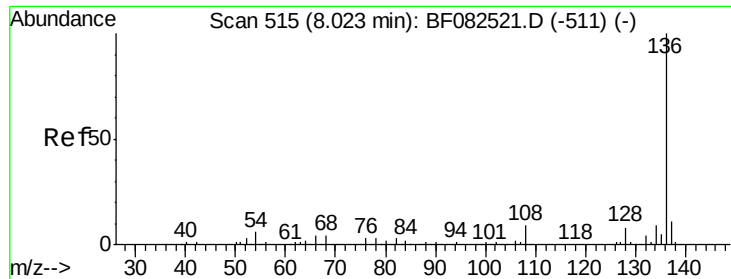
Tgt Ion: 70 Resp: 71357  
Ion Ratio Lower Upper  
70 100  
42 42.0 46.9 70.3#  
101 0.0 7.4 11.2#  
130 2.5 14.2 21.4#



#20  
3+4-Methylphenols  
Concen: 4.71 ng  
RT: 7.15 min Scan# 439  
Delta R.T. -0.01 min  
Lab File: BF082563.D  
Acq: 27 Oct 2015 23:09

Tgt Ion: 107 Resp: 95201  
Ion Ratio Lower Upper  
107 100  
108 80.5 74.8 114.8  
77 30.0 20.3 60.3  
79 21.1 10.2 50.2

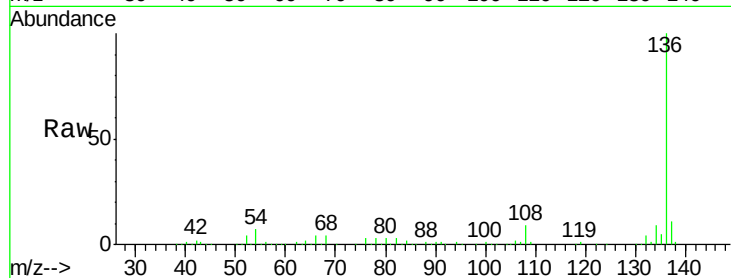




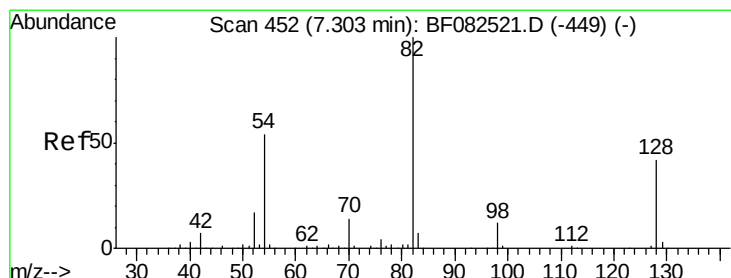
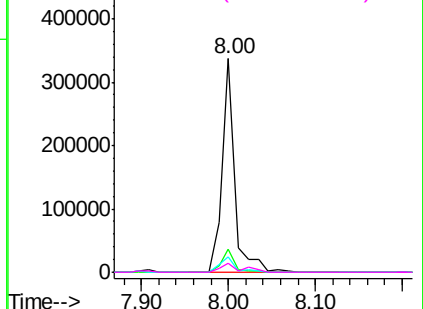
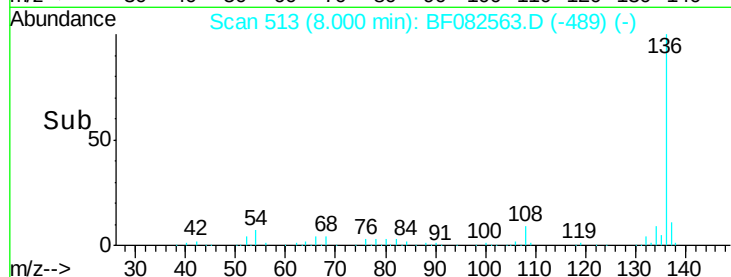
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 513  
Delta R.T. -0.02 min  
Lab File: BF082563.D  
Acq: 27 Oct 2015 23:09

Instrument :  
BNA\_F  
ClientSampleId :  
WOOD-2

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 348556 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.6   | 13.0   |
| 54       | 7.0   | 4.6   | 7.0#   |
| 68       | 4.5   | 3.2   | 4.8    |

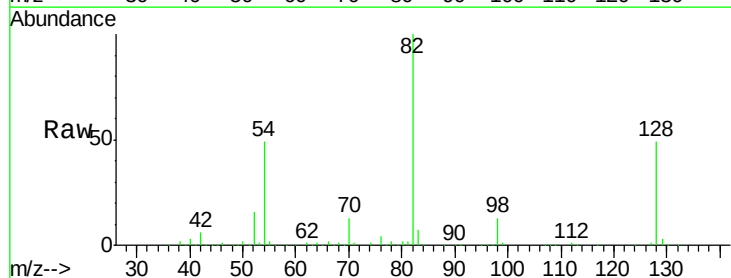


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

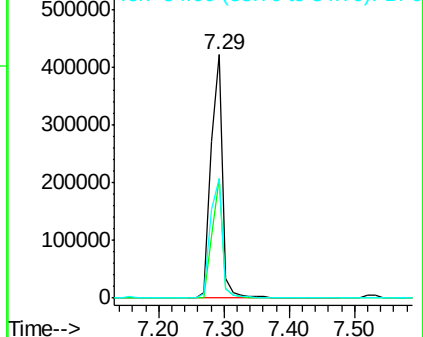
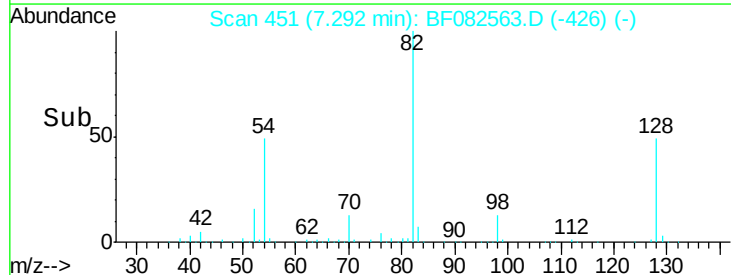


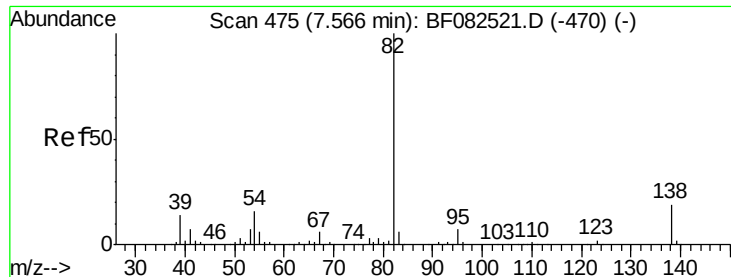
#23  
Nitrobenzene-d5  
Concen: 97.96 ng  
RT: 7.29 min Scan# 451  
Delta R.T. -0.01 min  
Lab File: BF082563.D  
Acq: 27 Oct 2015 23:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 529295 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 49.1  | 33.4  | 50.0   |
| 54       | 49.3  | 43.5  | 65.3   |



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





#25

Isophorone

Concen: 47.98 ng

RT: 7.29 min Scan# 451

Delta R.T. -0.27 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

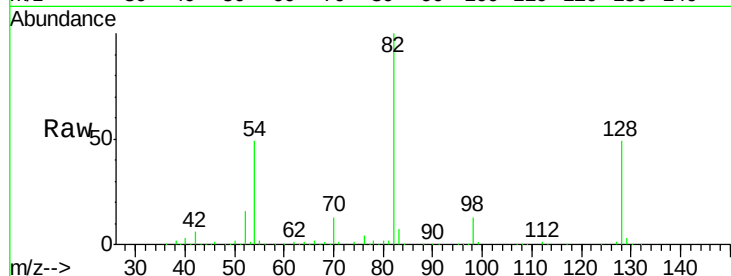
Tgt Ion: 82 Resp: 515015

Ion Ratio Lower Upper

82 100

95 0.1 5.7 8.5#

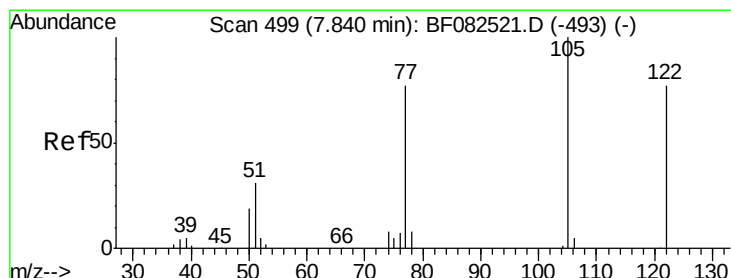
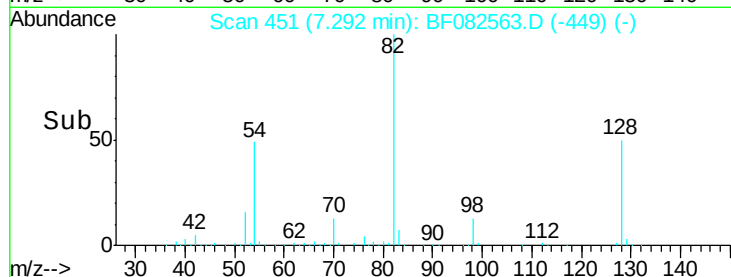
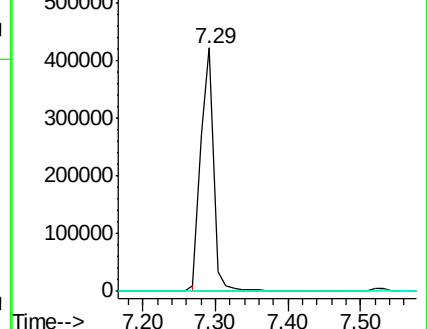
138 0.0 15.0 22.4#



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



#32

Benzoic acid

Concen: 3.35 ng

RT: 7.81 min Scan# 496

Delta R.T. -0.03 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

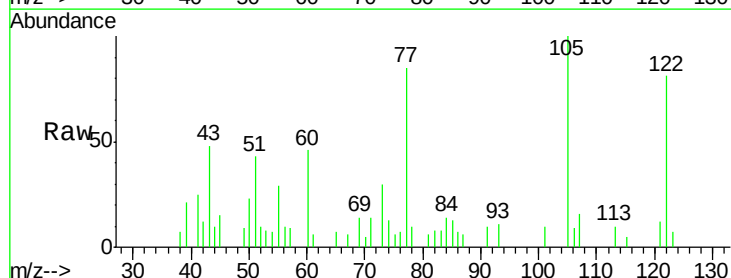
Tgt Ion: 122 Resp: 8877

Ion Ratio Lower Upper

122 100

105 123.5 106.4 146.4

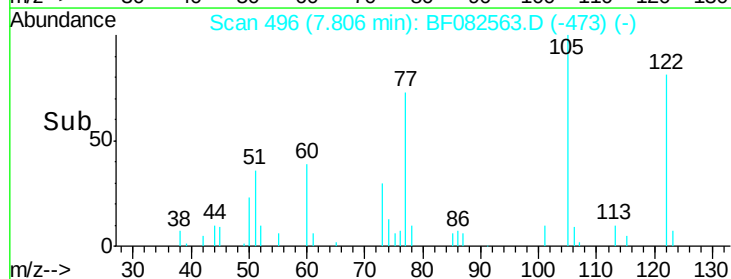
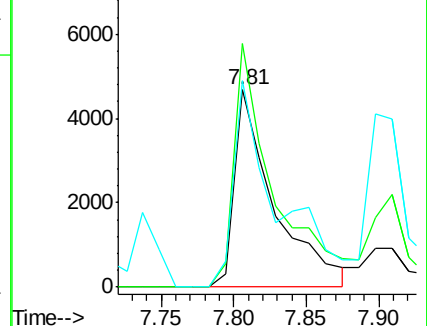
77 104.4 79.1 119.1

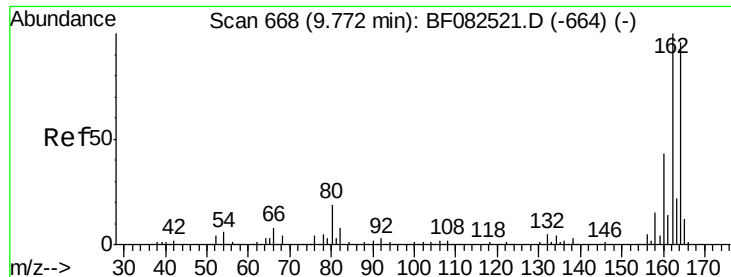


Abundance Ion 122.00 (121.70 to 122.70): E

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: 9.75 min Scan# 666

Delta R.T. -0.02 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

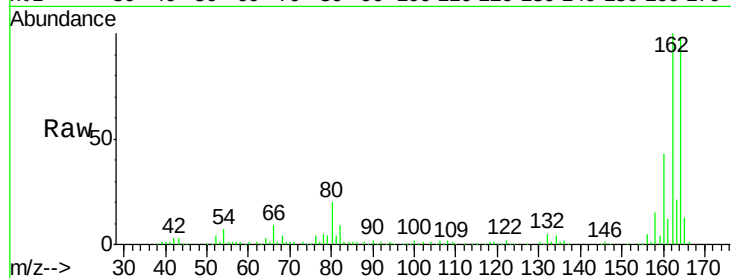
Tgt Ion:164 Resp: 155294

Ion Ratio Lower Upper

164 100

162 102.1 83.6 125.4

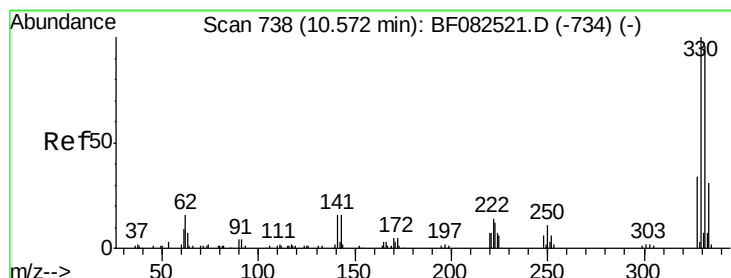
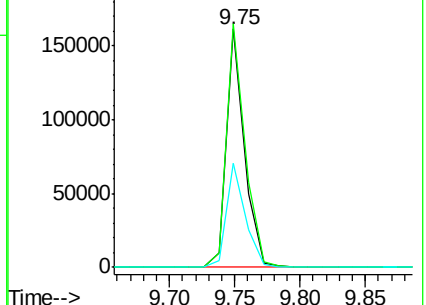
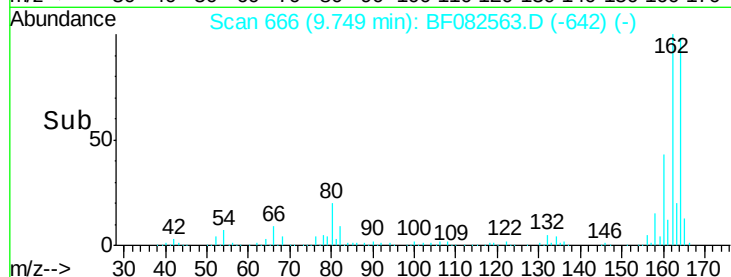
160 43.4 36.0 54.0



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: 146.68 ng

RT: 10.55 min Scan# 736

Delta R.T. -0.02 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

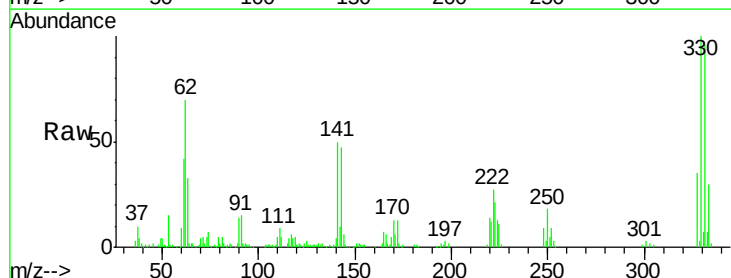
Tgt Ion:330 Resp: 170576

Ion Ratio Lower Upper

330 100

332 96.7 77.4 116.0

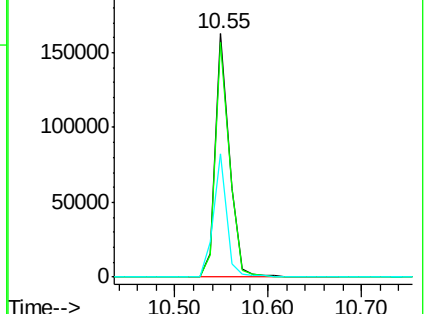
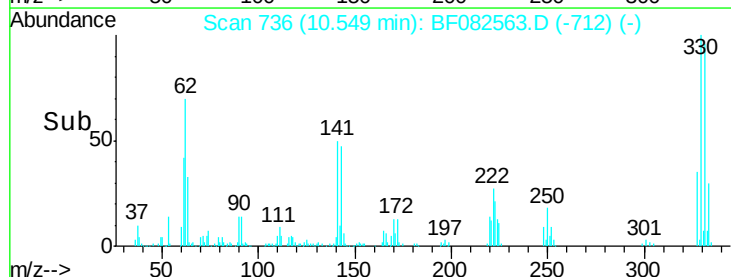
141 47.9 32.5 48.7



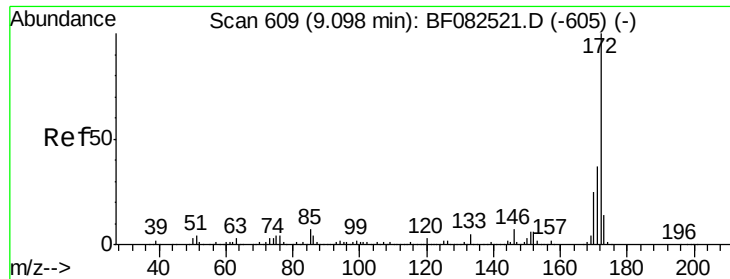
Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E







#44

2-Fluorobiphenyl

Concen: 97.99 ng

RT: 9.07 min Scan# 607

Delta R.T. -0.02 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

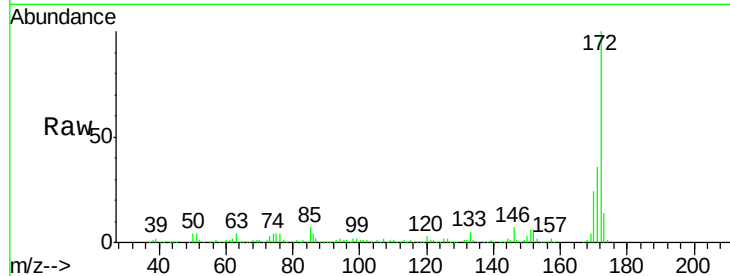
Tgt Ion:172 Resp: 956986

Ion Ratio Lower Upper

172 100

171 36.0 29.3 43.9

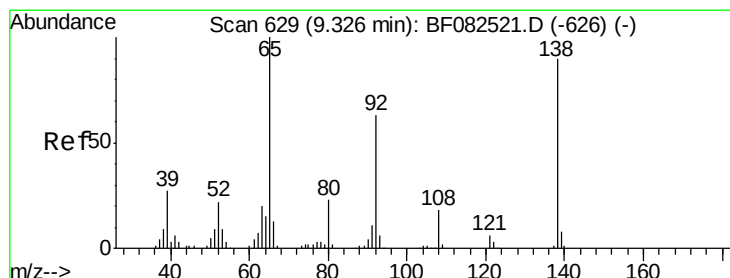
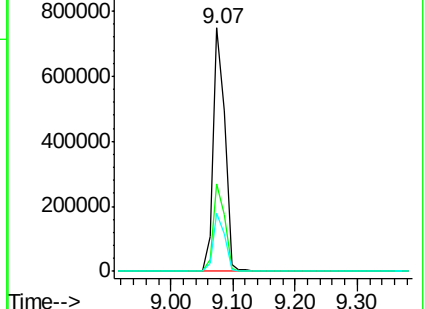
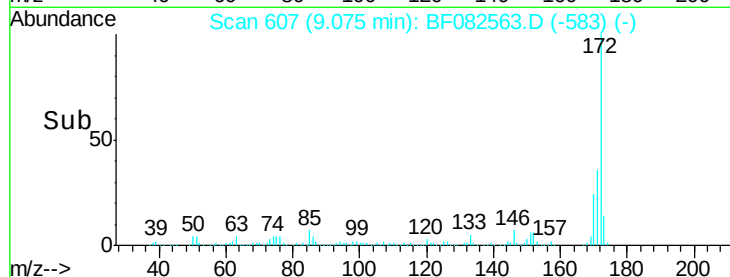
170 24.0 19.8 29.6



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



#47

2-Nitroaniline

Concen: 22.92 ng

RT: 9.25 min Scan# 622

Delta R.T. -0.08 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

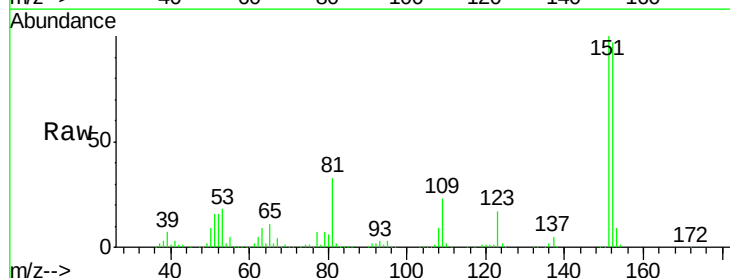
Tgt Ion: 65 Resp: 60642

Ion Ratio Lower Upper

65 100

92 18.7 50.6 76.0#

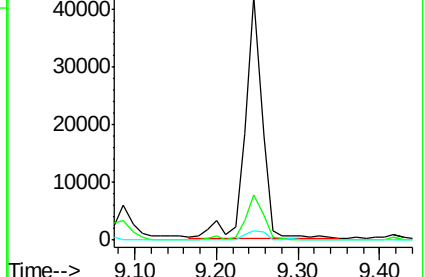
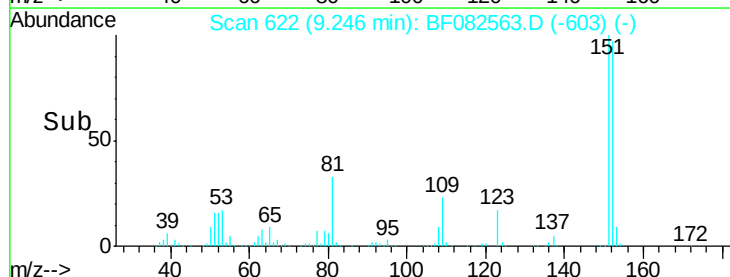
138 4.1 71.8 107.6#

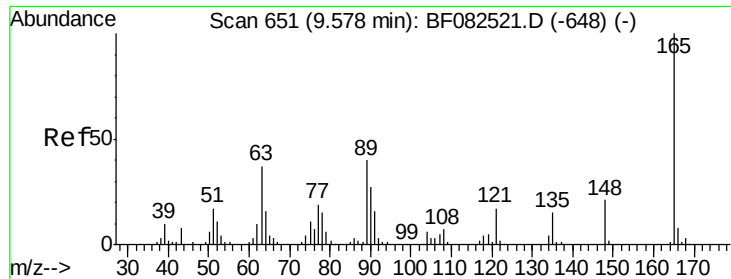


Abundance Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

Ion 138.00 (137.70 to 138.70): E

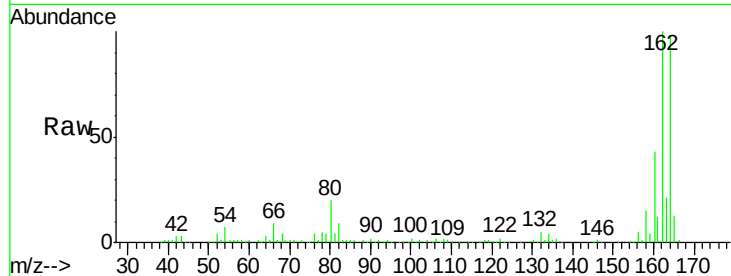




#50  
 2,6-Dinitrotoluene  
 Concen: 8.44 ng  
 RT: 9.75 min Scan# 666  
 Delta R.T. 0.17 min  
 Lab File: BF082563.D  
 Acq: 27 Oct 2015 23:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WOOD-2

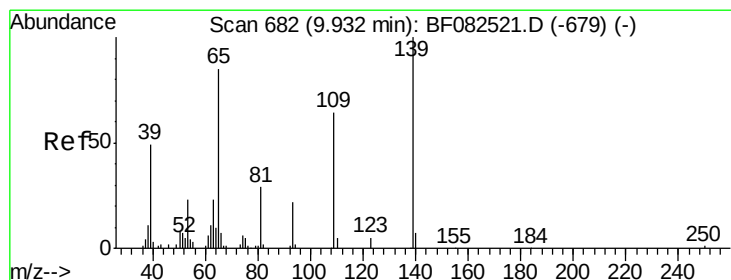
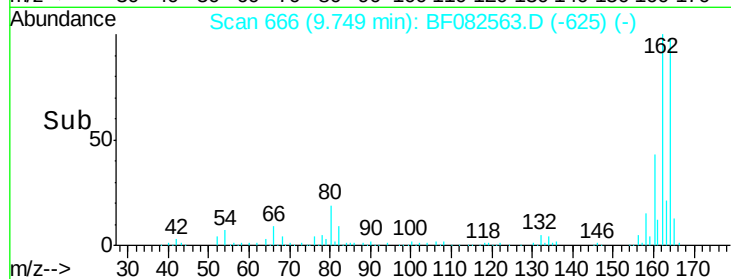
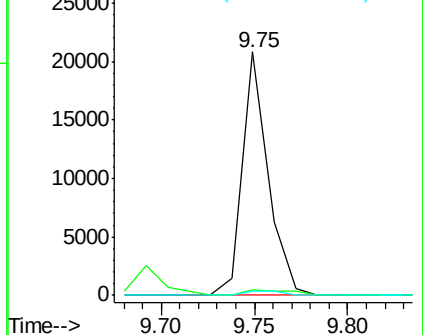
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 165     | 100   | 19995 |       |       |
| 63      | 2.2   | 30.7  | 46.1# |       |
| 89      | 1.9   | 31.8  | 47.8# |       |



Abundance Ion 165.00 (164.70 to 165.70): E

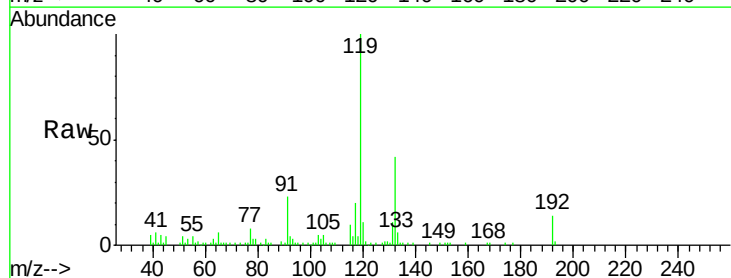
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#55  
 4-Nitrophenol  
 Concen: 6.51 ng  
 RT: 10.03 min Scan# 691  
 Delta R.T. 0.10 min  
 Lab File: BF082563.D  
 Acq: 27 Oct 2015 23:09

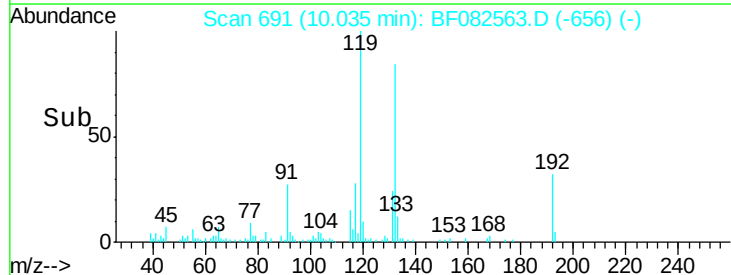
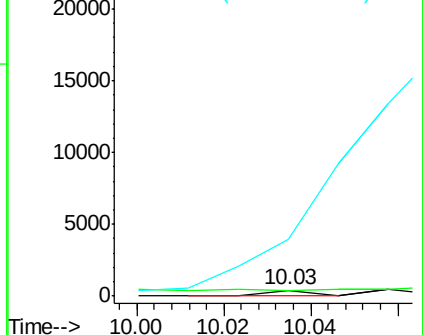
| Tgt Ion | Ratio | Resp | Lower  | Upper |
|---------|-------|------|--------|-------|
| 139     | 100   | 285  |        |       |
| 109     | 98.8  | 44.2 | 84.2#  |       |
| 65      | 953.4 | 68.1 | 108.1# |       |

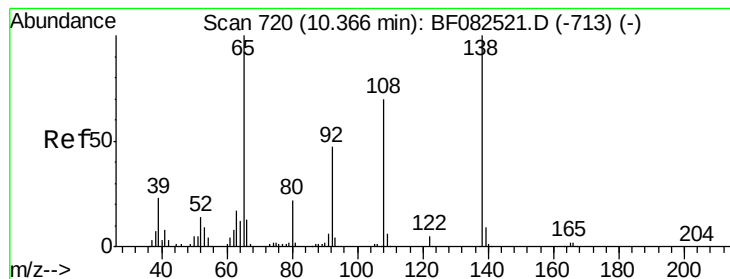


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

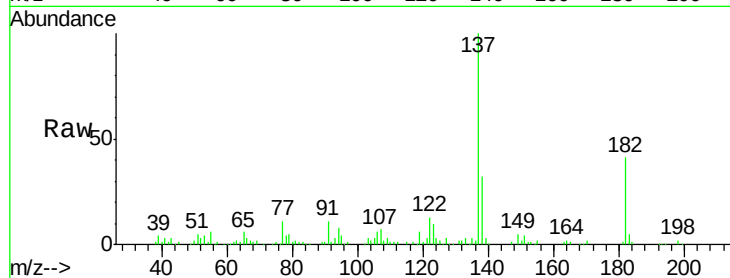




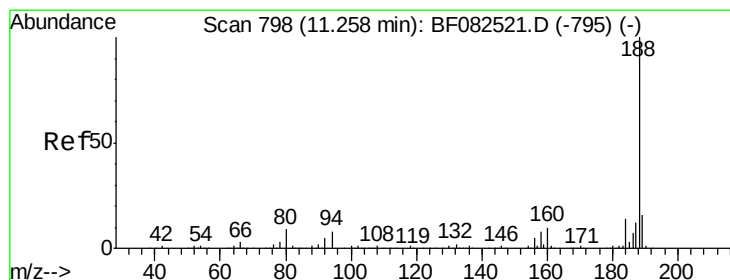
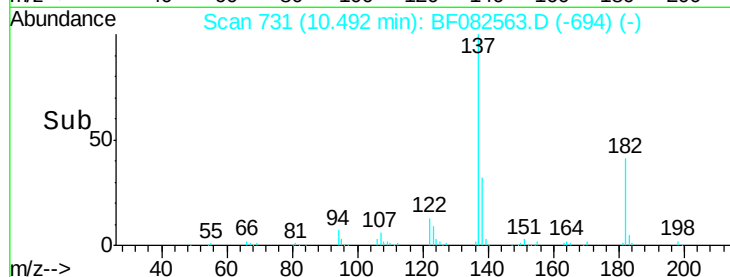
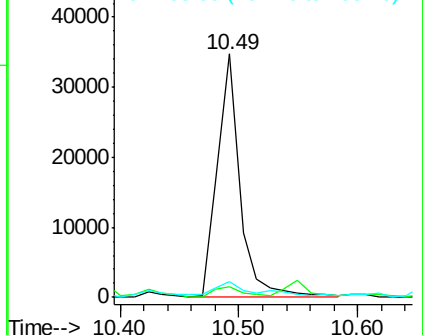
#61  
 4-Nitroaniline  
 Concen: 17.92 ng  
 RT: 10.49 min Scan# 731  
 Delta R.T. 0.13 min  
 Lab File: BF082563.D  
 Acq: 27 Oct 2015 23:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WOOD-2

Tgt Ion:138 Resp: 46123  
 Ion Ratio Lower Upper  
 138 100  
 92 4.4 27.3 67.3#  
 108 6.3 49.8 89.8#

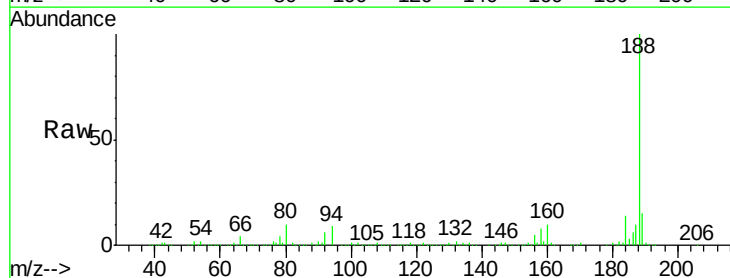


Abundance Ion 138.00 (137.70 to 138.70): E  
 Ion 92.00 (91.70 to 92.70): BF0  
 Ion 108.00 (107.70 to 108.70): E

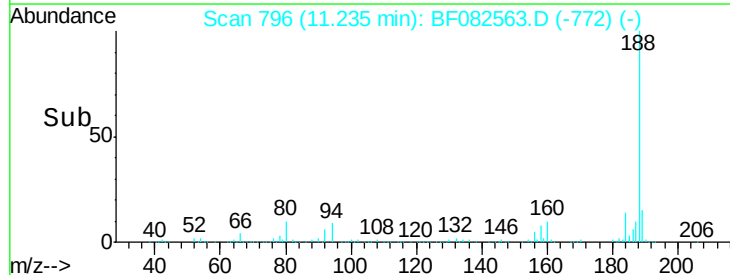
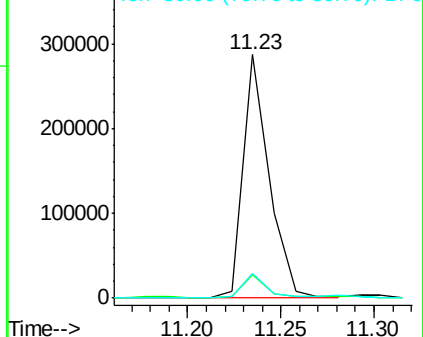


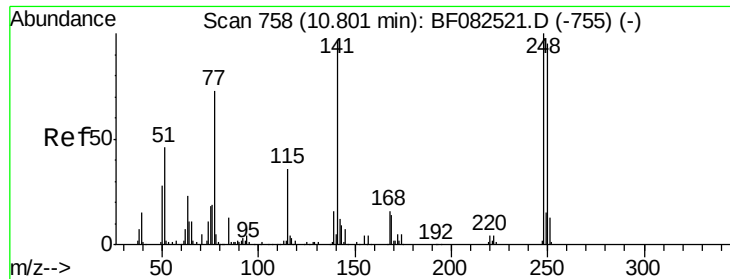
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.23 min Scan# 796  
 Delta R.T. -0.02 min  
 Lab File: BF082563.D  
 Acq: 27 Oct 2015 23:09

Tgt Ion:188 Resp: 279990  
 Ion Ratio Lower Upper  
 188 100  
 94 9.4 6.4 9.6  
 80 10.3 7.0 10.6



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

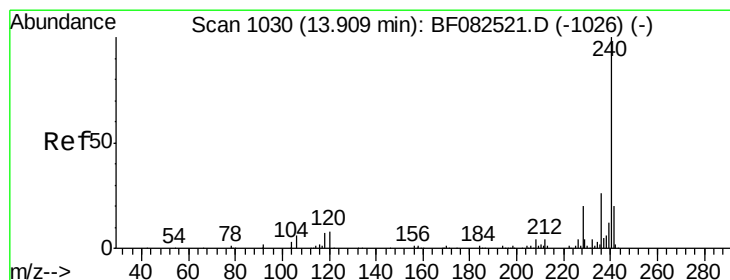
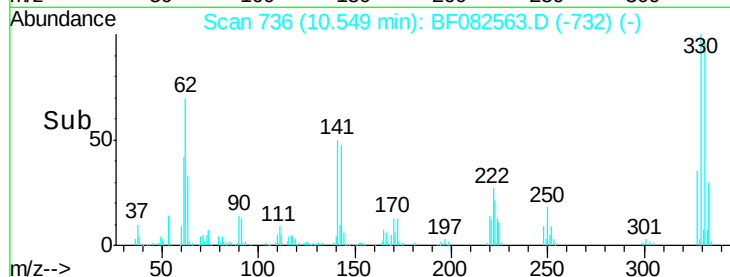
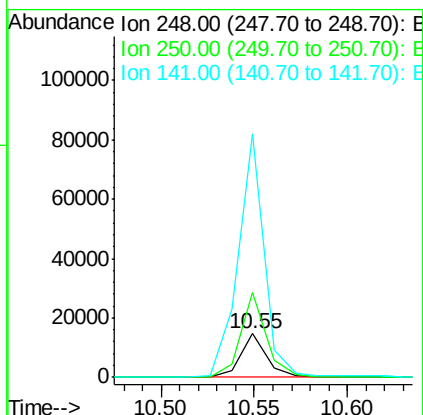
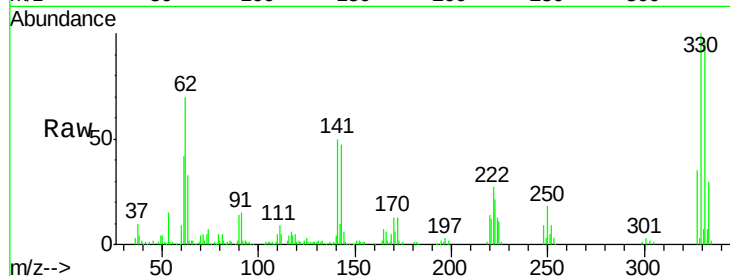




#66  
4-Bromophenyl-phenylether  
Concen: 5.30 ng  
RT: 10.55 min Scan# 736  
Delta R.T. -0.25 min  
Lab File: BF082563.D  
Acq: 27 Oct 2015 23:09

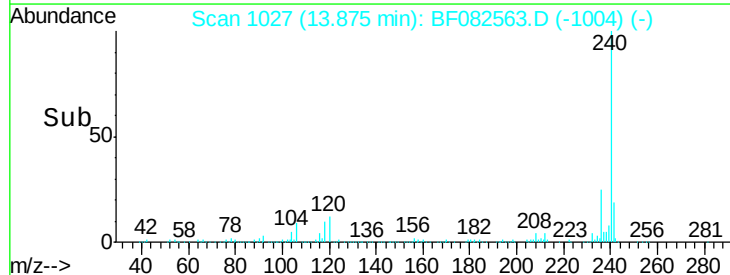
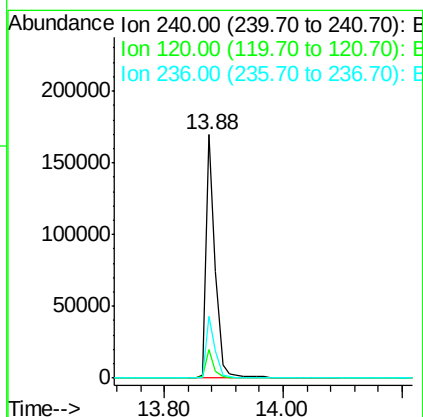
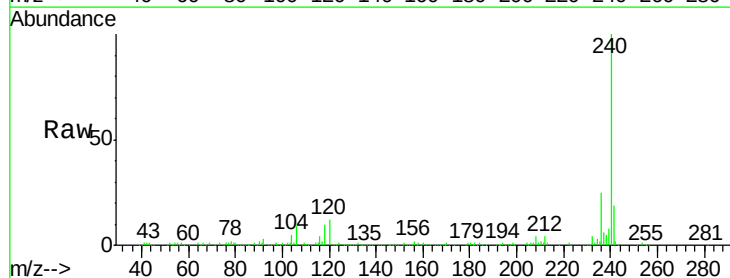
Instrument :  
BNA\_F  
ClientSampleId :  
WOOD-2

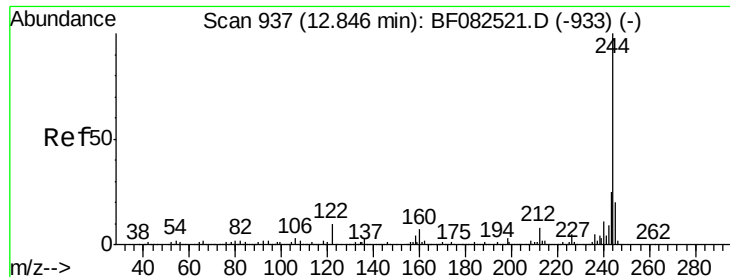
Tgt Ion:248 Resp: 13925  
Ion Ratio Lower Upper  
248 100  
250 197.4 76.0 114.0#  
141 562.3 77.5 116.3#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.88 min Scan# 1027  
Delta R.T. -0.03 min  
Lab File: BF082563.D  
Acq: 27 Oct 2015 23:09

Tgt Ion:240 Resp: 184971  
Ion Ratio Lower Upper  
240 100  
120 12.0 6.5 9.7#  
236 25.2 20.5 30.7





#78

Terphenyl-d14

Concen: 113.27 ng

RT: 12.82 min Scan# 935

Delta R.T. -0.02 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

Instrument :

BNA\_F

ClientSampleId :

WOOD-2

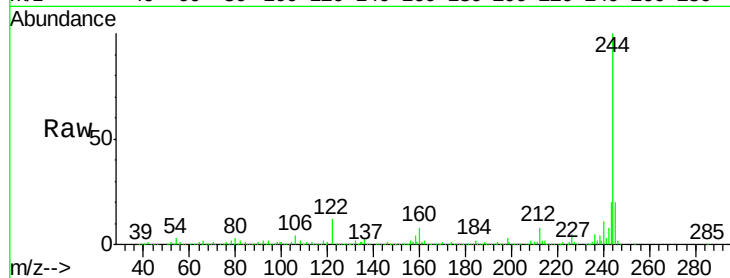
Tgt Ion:244 Resp: 727246

Ion Ratio Lower Upper

244 100

212 8.3 6.4 9.6

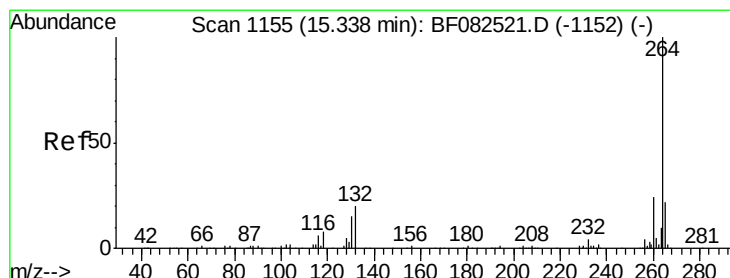
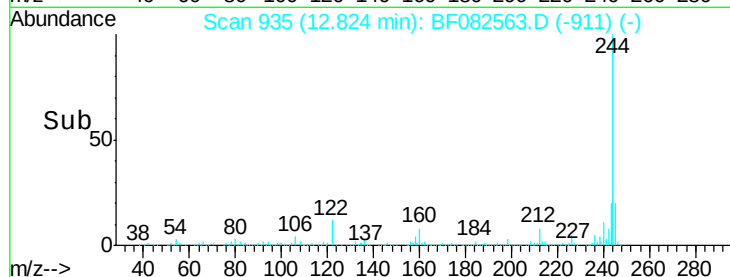
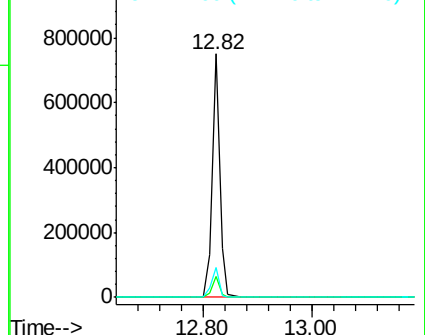
122 12.2 8.1 12.1#



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: 15.29 min Scan# 1151

Delta R.T. -0.05 min

Lab File: BF082563.D

Acq: 27 Oct 2015 23:09

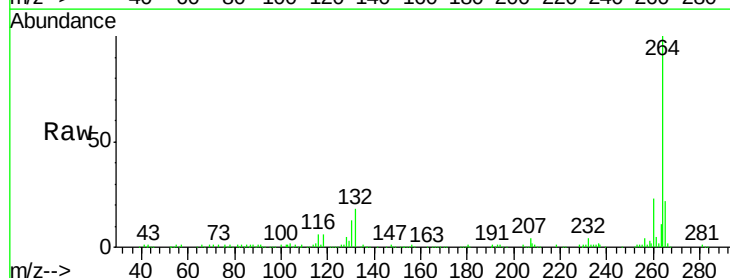
Tgt Ion:264 Resp: 164430

Ion Ratio Lower Upper

264 100

260 23.3 19.0 28.6

265 22.1 17.8 26.6



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

