

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122015\  
 Data File : BF083950.D  
 Acq On : 19 Dec 2015 13:17  
 Operator : UM/SJ  
 Sample : PB87402BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB87402BL

Quant Time: Dec 21 00:40:21 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 18 14:23:22 2015  
 Response via : Initial Calibration

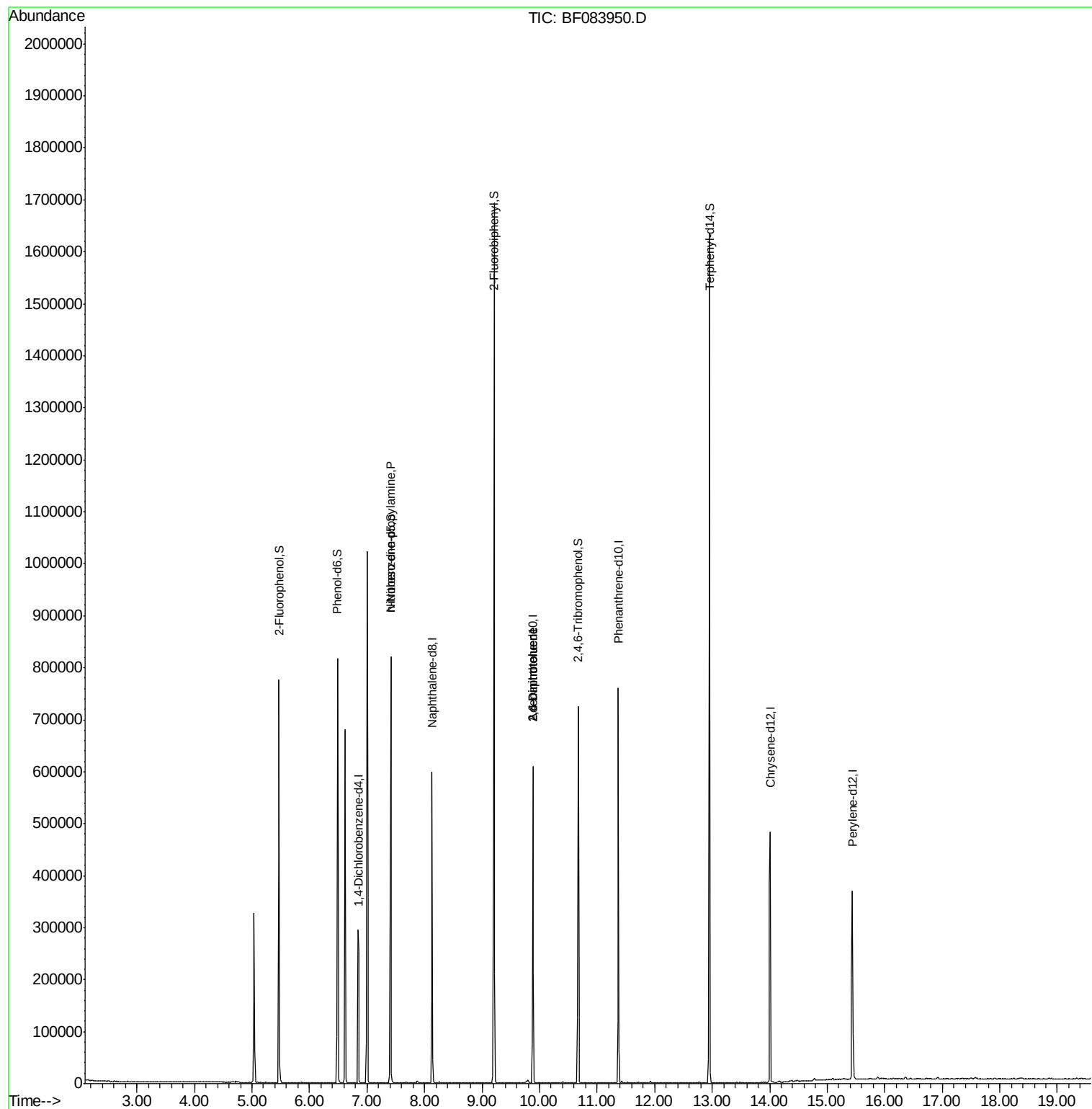
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 65727    | 20.00     | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.13  | 136  | 278129   | 20.00     | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.88  | 164  | 131047   | 20.00     | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.37 | 188  | 258680   | 20.00     | ng    | -0.02    |
| 75) Chrysene-d12               | 14.01 | 240  | 228989   | 20.00     | ng    | -0.02    |
| 86) Perylene-d12               | 15.44 | 264  | 171390   | 20.00     | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 259285   | 61.74     | ng    | -0.01    |
| 7) Phenol-d6                   | 6.49  | 99   | 278211   | 54.12     | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.41  | 82   | 298386   | 61.23     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.67 | 330  | 81723    | 56.61     | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 9.21  | 172  | 551277   | 55.94     | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.96 | 244  | 599843   | 59.35     | ng    | -0.02    |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 40947    | 13.66     | ng    | # 76     |
| 31) Naphthalene                | 8.16  | 128  | 352      | Below Cal | #     | 68       |
| 45) 1,1'-Biphenyl              | 9.31  | 154  | 241      | Below Cal | #     | 42       |
| 50) 2,6-Dinitrotoluene         | 9.88  | 165  | 17347    | 7.23      | ng    | # 37     |
| 56) 2,4-Dinitrotoluene         | 9.88  | 165  | 17347    | 5.64      | ng    | # 21     |
| 57) Fluorene                   | 10.67 | 166  | 3738     | Below Cal | #     | 90       |
| 77) Pyrene                     | 12.81 | 202  | 398      | Below Cal | #     | 57       |

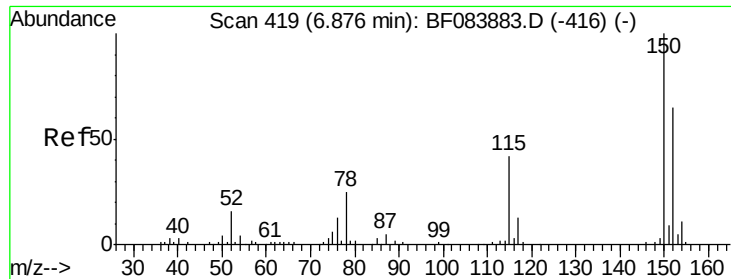
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.85 min Scan# 417

Delta R.T. -0.02 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

Instrument :

BNA\_F

ClientSampleId :

PB87402BL

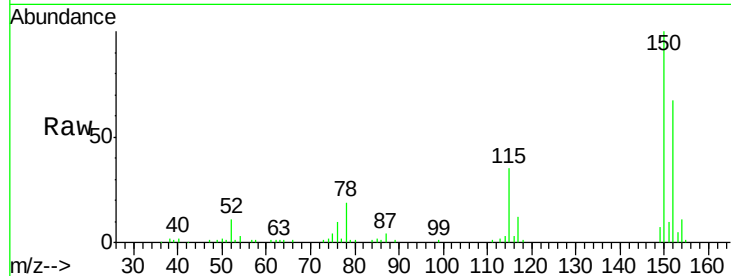
Tgt Ion:152 Resp: 65727

Ion Ratio Lower Upper

152 100

150 148.4 123.0 184.4

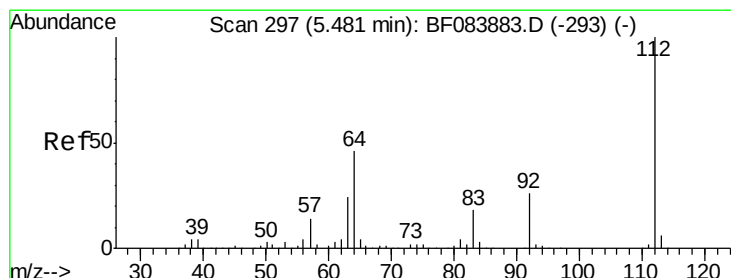
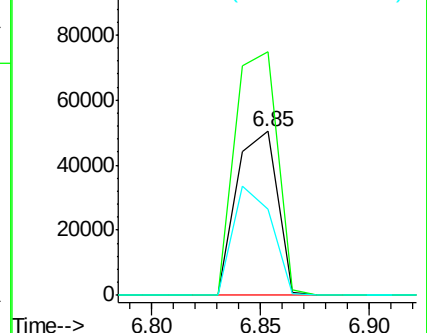
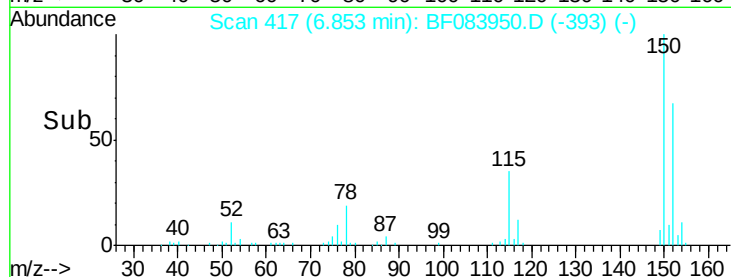
115 52.7 51.4 77.2



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: 61.74 ng

RT: 5.47 min Scan# 296

Delta R.T. -0.01 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

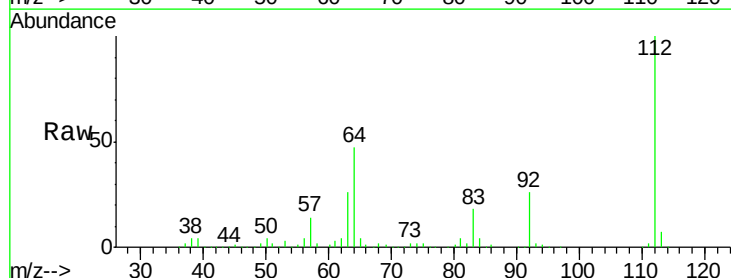
Tgt Ion:112 Resp: 259285

Ion Ratio Lower Upper

112 100

64 47.5 36.6 55.0

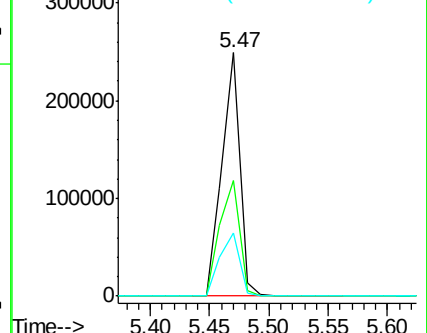
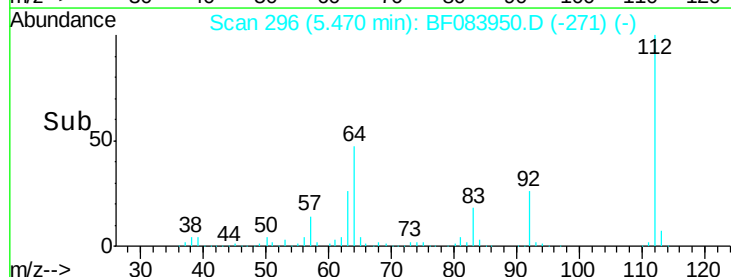
63 26.1 19.4 29.0

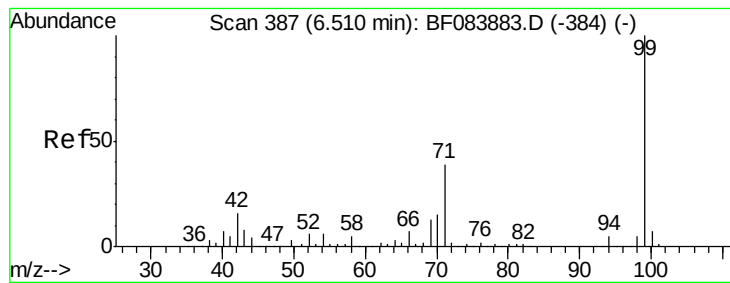


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 54.12 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

Instrument :

BNA\_F

ClientSampleId :

PB87402BL

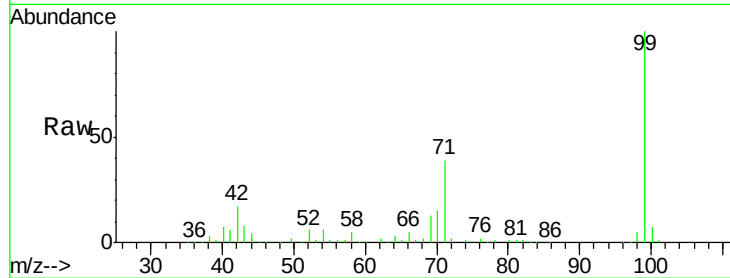
Tgt Ion: 99 Resp: 278211

Ion Ratio Lower Upper

99 100

42 16.8 12.8 19.2

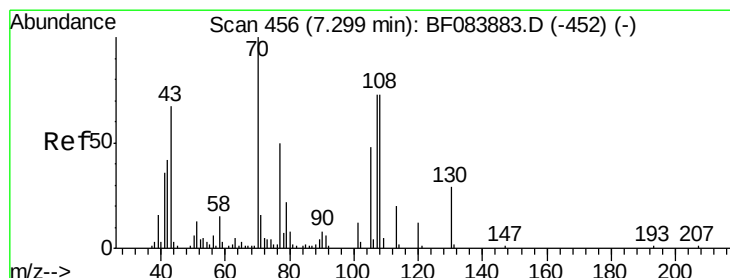
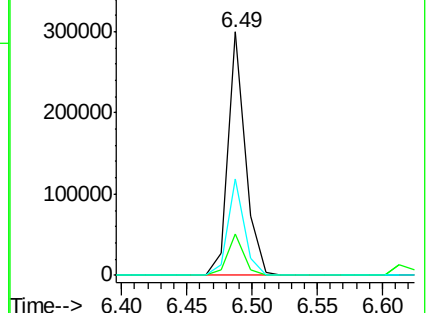
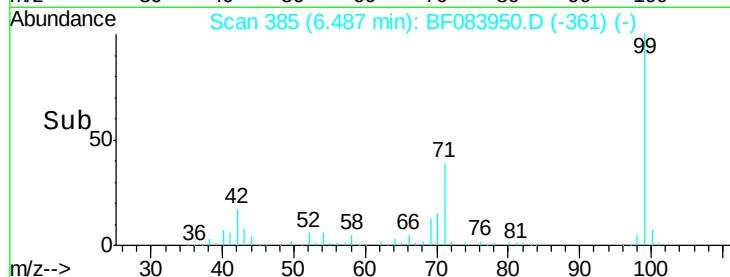
71 39.4 30.9 46.3



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: 13.66 ng

RT: 7.41 min Scan# 466

Delta R.T. 0.11 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

Tgt Ion: 70 Resp: 40947

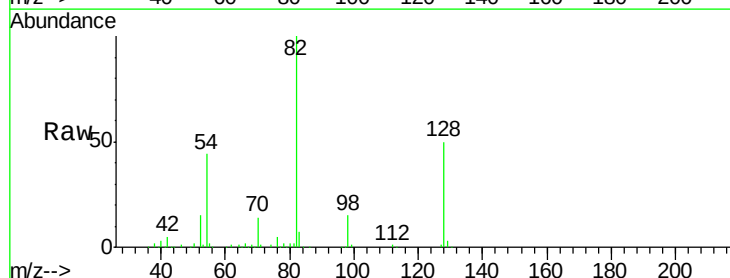
Ion Ratio Lower Upper

70 100

42 38.7 33.3 49.9

101 0.0 9.3 13.9#

130 2.3 23.4 35.0#

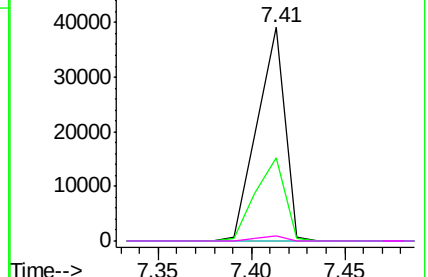
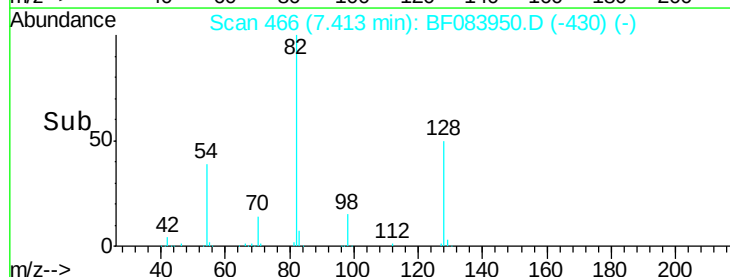


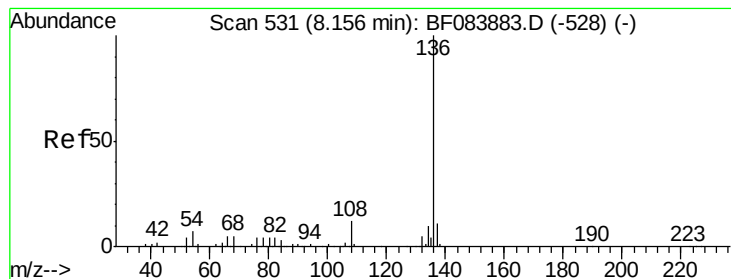
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 529

Delta R.T. -0.02 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

Instrument :

BNA\_F

ClientSampleId :

PB87402BL

Tgt Ion: 136 Resp: 278129

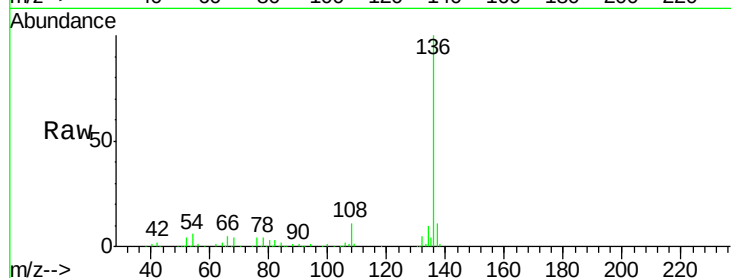
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 6.0 5.8 8.8

68 4.2 4.2 6.2

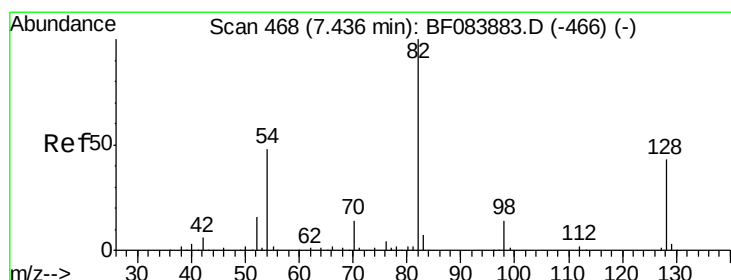
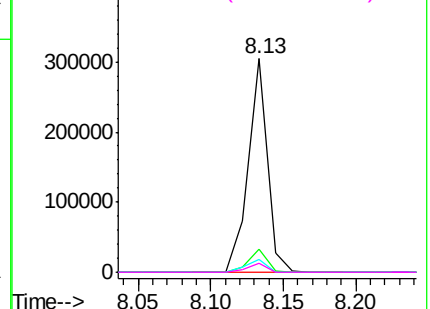
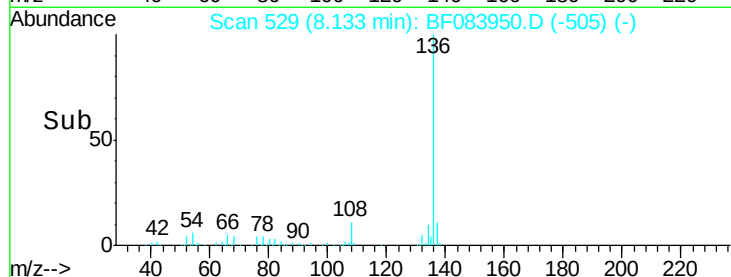


Abundance Ion 136.00 (135.70 to 136.70): E

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: 61.23 ng

RT: 7.41 min Scan# 466

Delta R.T. -0.02 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

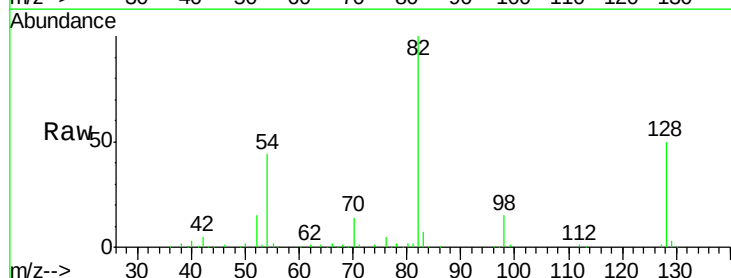
Tgt Ion: 82 Resp: 298386

Ion Ratio Lower Upper

82 100

128 49.9 34.6 51.8

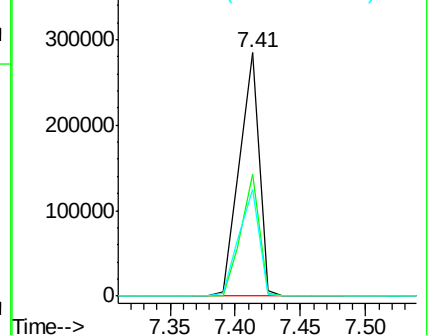
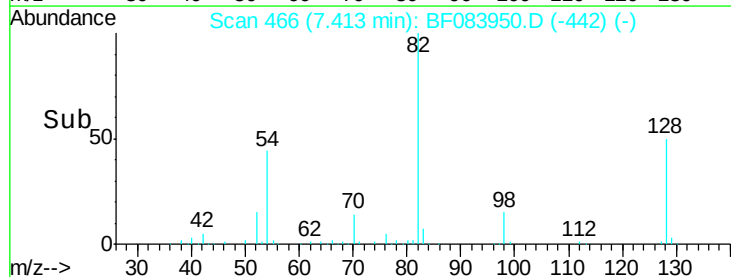
54 43.7 38.4 57.6

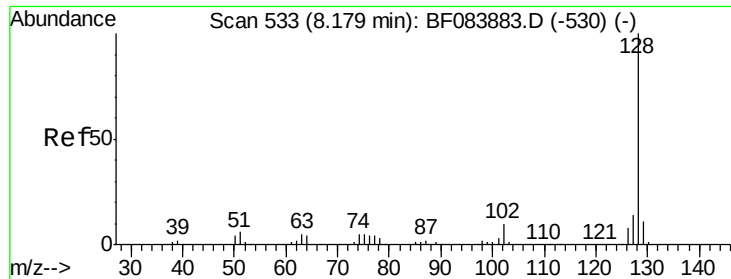


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: Below Cal

RT: 8.16 min Scan# 531

Delta R.T. -0.02 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

Instrument :

BNA\_F

ClientSampleId :

PB87402BL

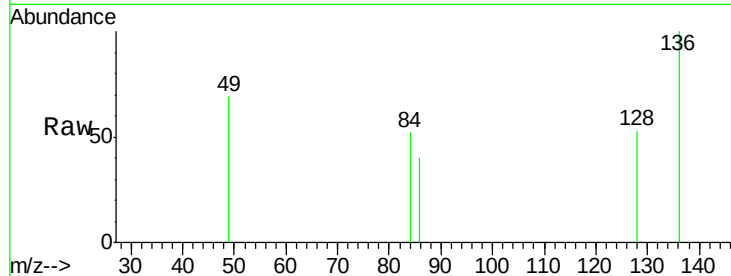
Tgt Ion:128 Resp: 352

Ion Ratio Lower Upper

128 100

129 0.0 9.1 13.7#

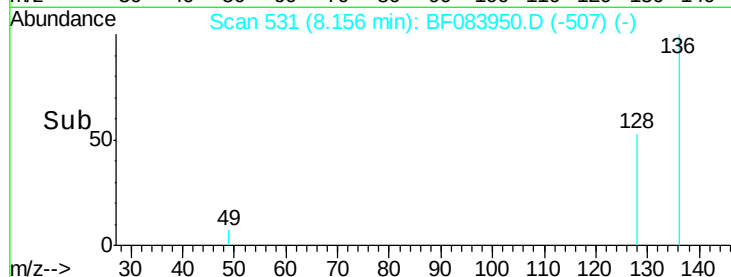
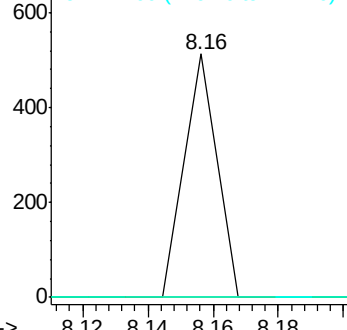
127 0.0 11.1 16.7#



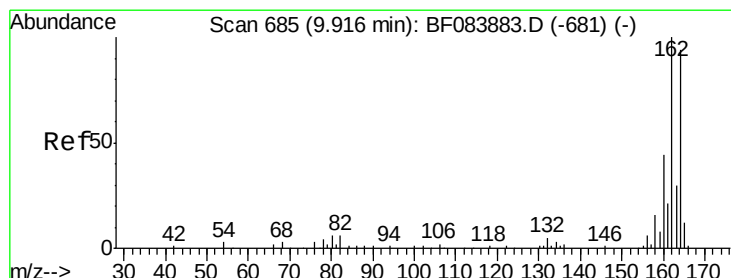
Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.03 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

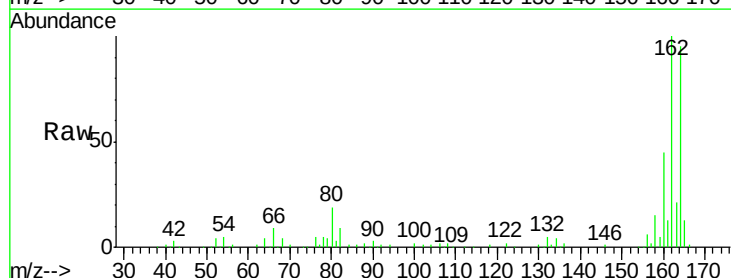
Tgt Ion:164 Resp: 131047

Ion Ratio Lower Upper

164 100

162 105.2 85.1 127.7

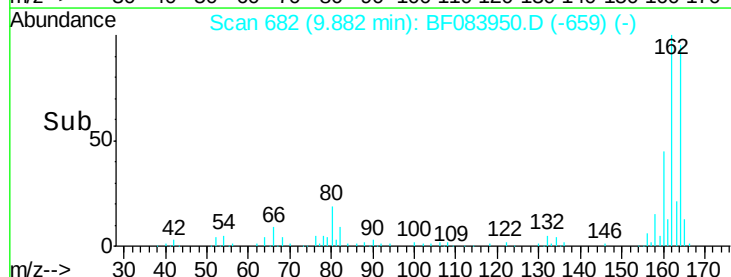
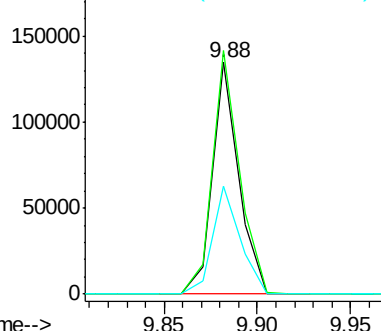
160 46.8 37.5 56.3



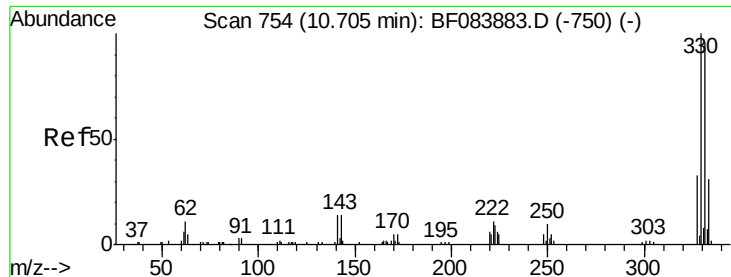
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



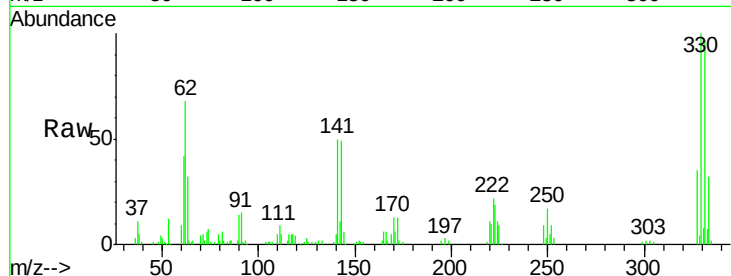
Time-->



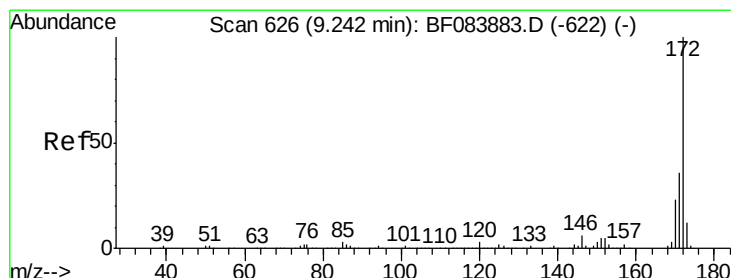
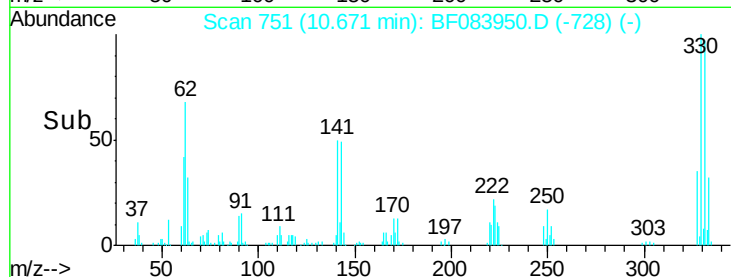
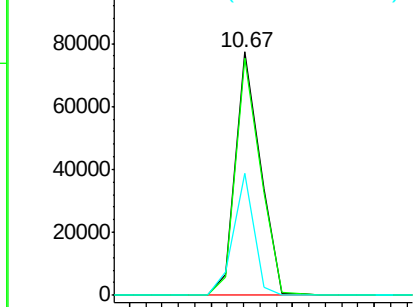
#41  
 2,4,6-Tribromophenol  
 Concen: 56.61 ng  
 RT: 10.67 min Scan# 751  
 Delta R.T. -0.03 min  
 Lab File: BF083950.D  
 Acq: 19 Dec 2015 13:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB87402BL

Tgt Ion:330 Resp: 81723  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 76.6 114.8  
 141 41.0 27.8 41.6

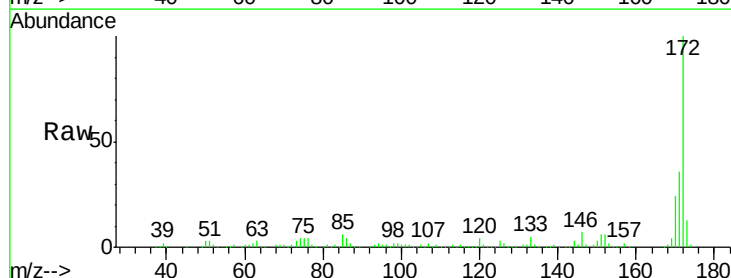


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

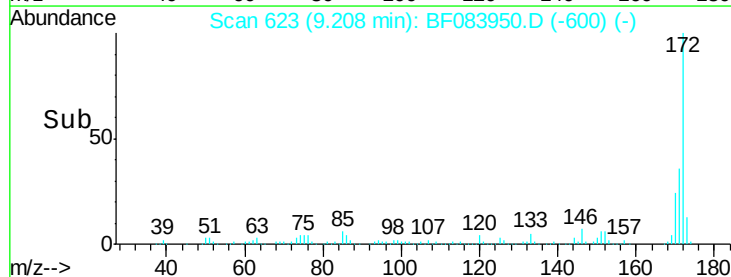
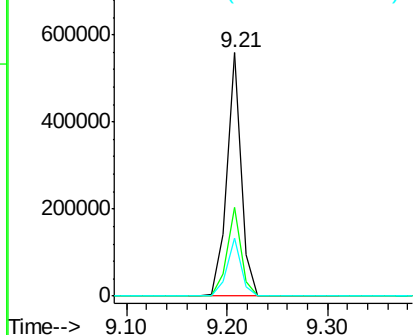


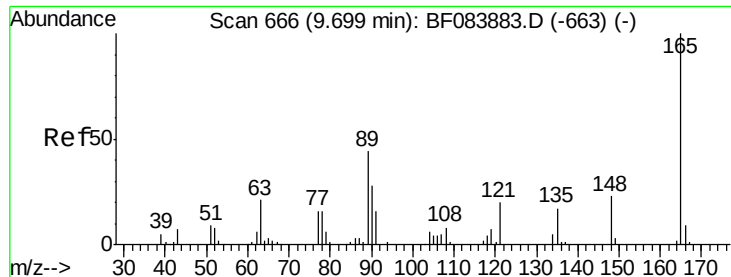
#44  
 2-Fluorobiphenyl  
 Concen: 55.94 ng  
 RT: 9.21 min Scan# 623  
 Delta R.T. -0.03 min  
 Lab File: BF083950.D  
 Acq: 19 Dec 2015 13:17

Tgt Ion:172 Resp: 551277  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 28.9 43.3  
 170 23.9 18.6 27.8



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

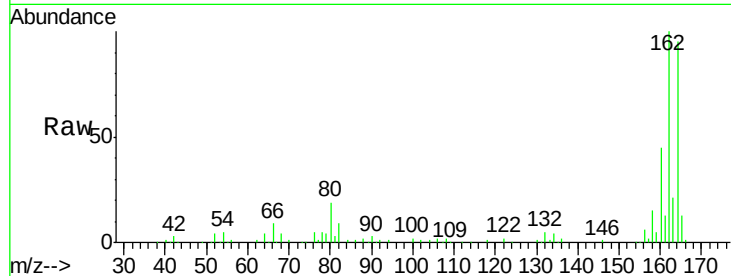




#50  
 2,6-Dinitrotoluene  
 Concen: 7.23 ng  
 RT: 9.88 min Scan# 682  
 Delta R.T. 0.18 min  
 Lab File: BF083950.D  
 Acq: 19 Dec 2015 13:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB87402BL

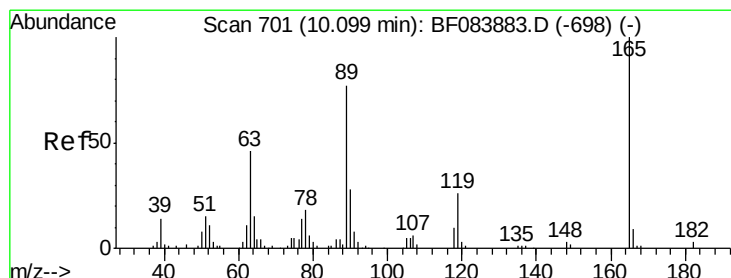
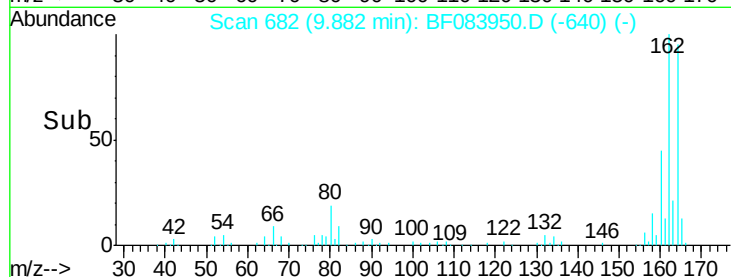
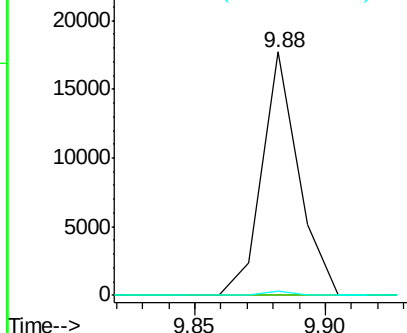
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 28.8  | 43.2# |
| 89      | 1.9   | 35.1  | 52.7# |



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: 5.64 ng  
 RT: 9.88 min Scan# 682  
 Delta R.T. -0.22 min  
 Lab File: BF083950.D  
 Acq: 19 Dec 2015 13:17

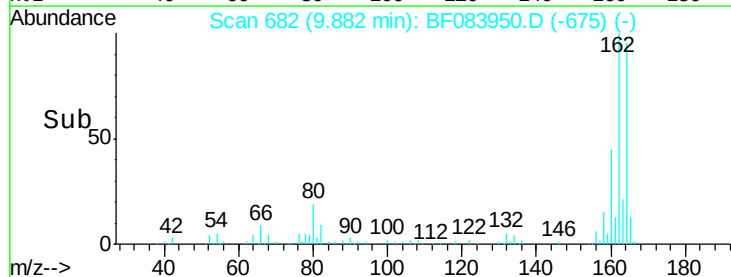
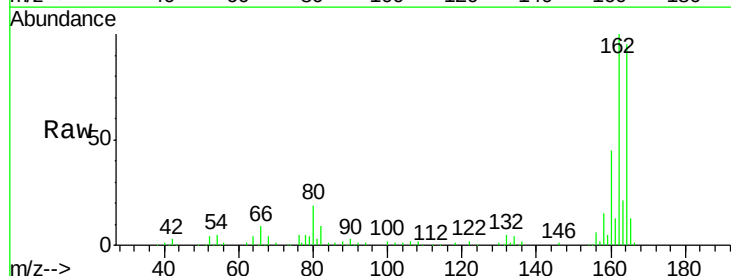
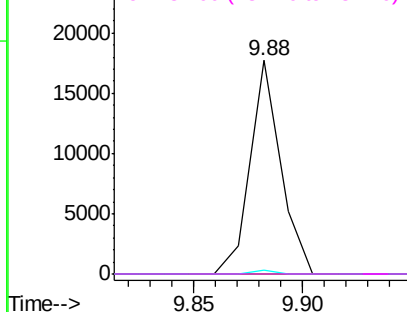
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 36.7  | 55.1# |
| 89      | 1.9   | 61.9  | 92.9# |
| 182     | 0.0   | 2.0   | 3.0#  |

Abundance Ion 165.00 (164.70 to 165.70): E

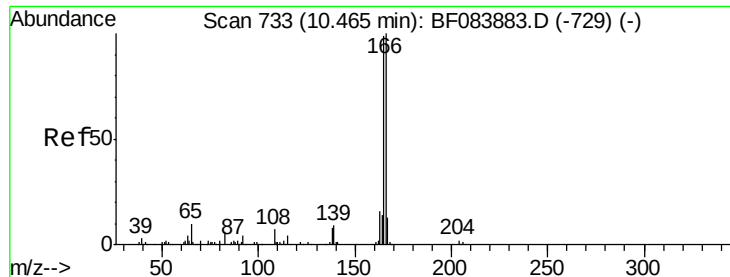
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E







#57

Fluorene

Concen: Below Cal

RT: 10.67 min Scan# 751

Delta R.T. 0.21 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

Instrument :

BNA\_F

ClientSampleId :

PB87402BL

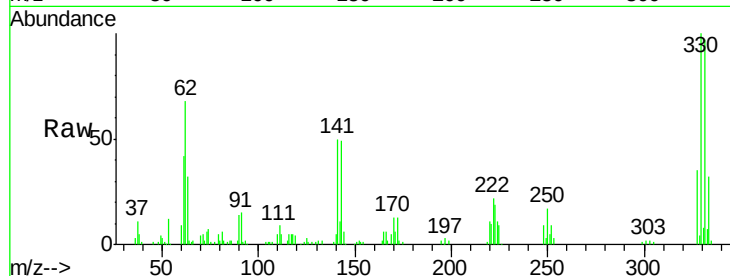
Tgt Ion:166 Resp: 3738

Ion Ratio Lower Upper

166 100

165 103.3 79.1 118.7

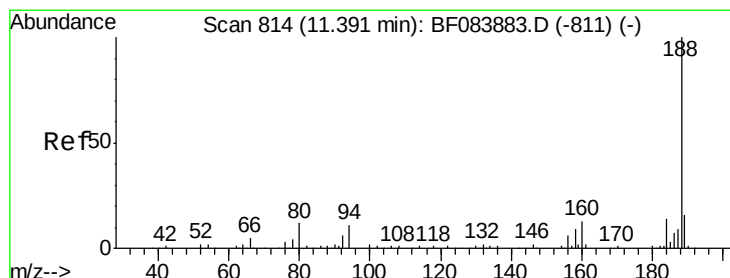
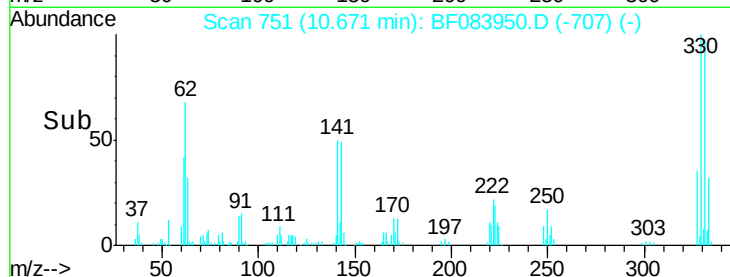
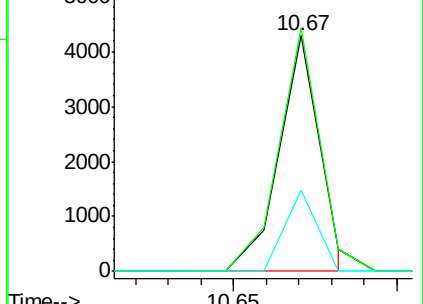
167 34.6 10.4 15.6#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.37 min Scan# 812

Delta R.T. -0.02 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

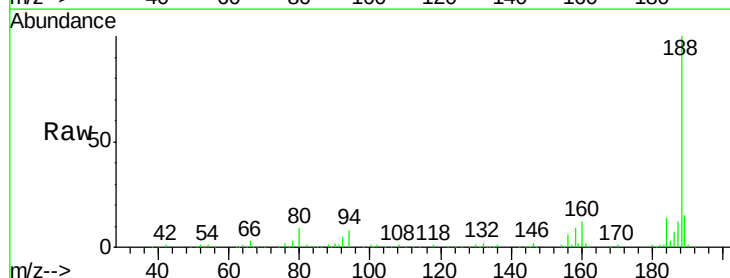
Tgt Ion:188 Resp: 258680

Ion Ratio Lower Upper

188 100

94 8.4 9.0 13.4#

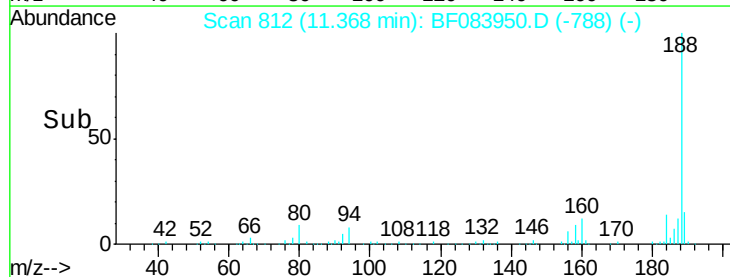
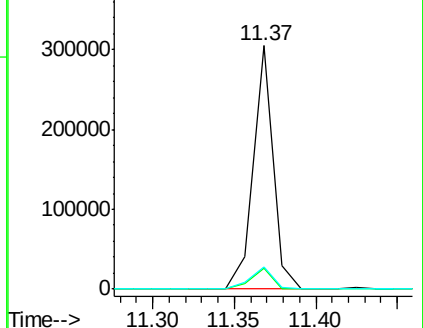
80 9.3 9.6 14.4#

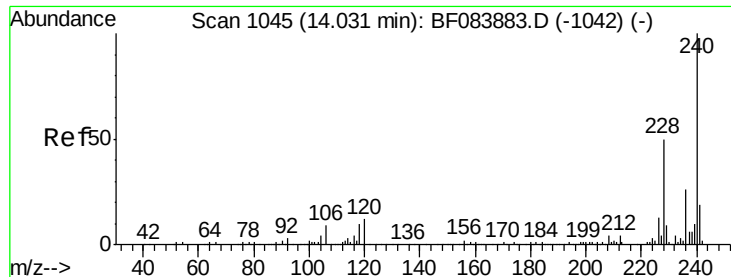


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.02 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

Instrument :

BNA\_F

ClientSampleID :

PB87402BL

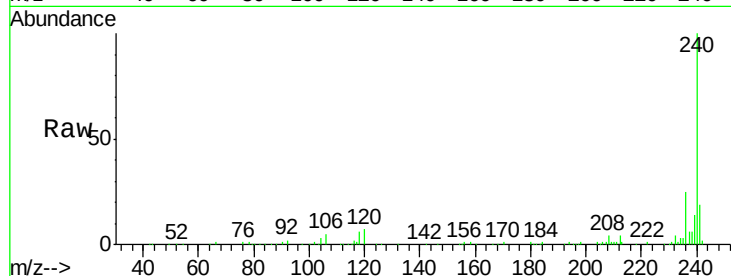
Tgt Ion:240 Resp: 228989

Ion Ratio Lower Upper

240 100

120 7.3 9.5 14.3#

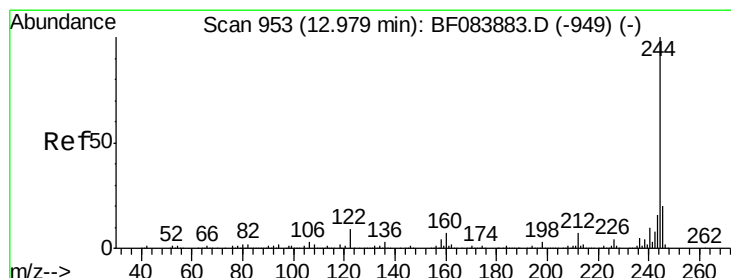
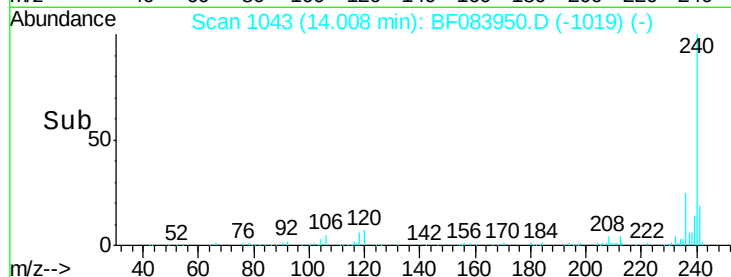
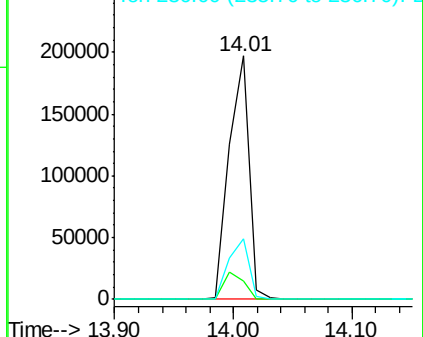
236 25.0 20.6 31.0



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: 59.35 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.02 min

Lab File: BF083950.D

Acq: 19 Dec 2015 13:17

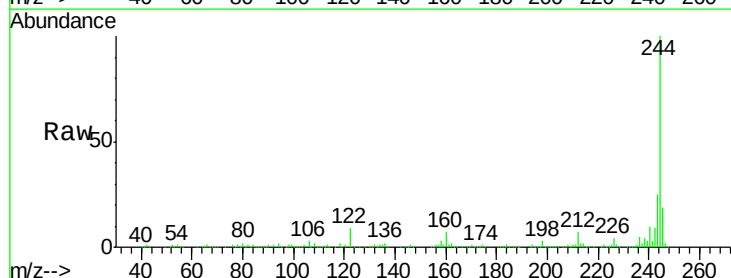
Tgt Ion:244 Resp: 599843

Ion Ratio Lower Upper

244 100

212 7.4 5.7 8.5

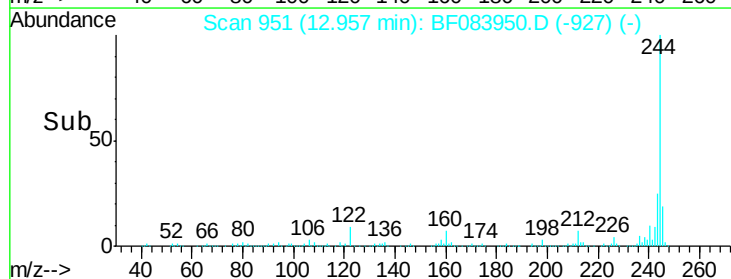
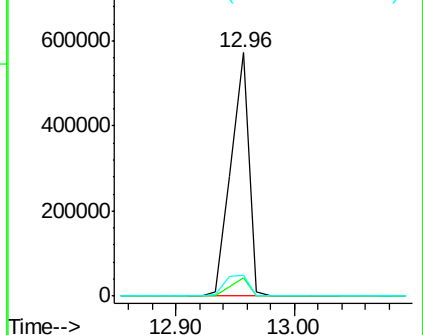
122 8.7 7.4 11.0

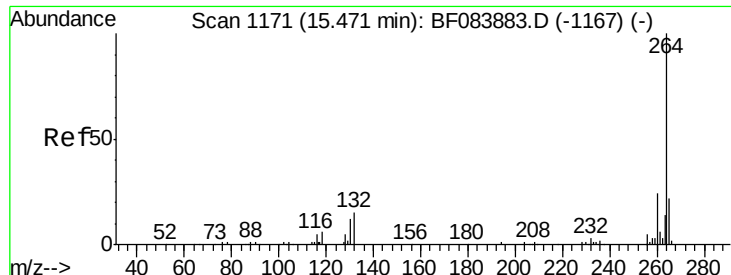


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

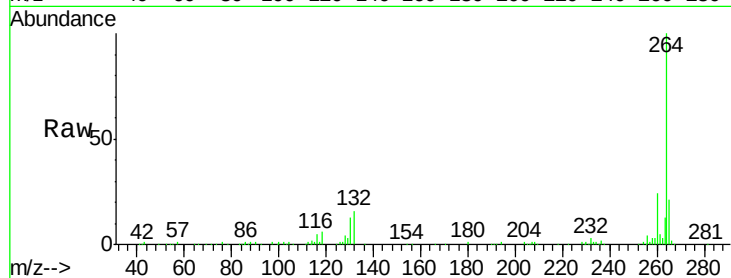




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.44 min Scan# 1168  
Delta R.T. -0.03 min  
Lab File: BF083950.D  
Acq: 19 Dec 2015 13:17

Instrument :  
BNA\_F  
ClientSampleId :  
PB87402BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.4  | 29.2  |
| 265     | 20.6  | 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

