

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030816\  
 Data File : BF085264.D  
 Acq On : 8 Mar 2016 19:16  
 Operator : UM/SJ  
 Sample : PB88757TB  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB88757TB

Quant Time: Mar 09 00:05:16 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 04 00:54:58 2016  
 Response via : Initial Calibration

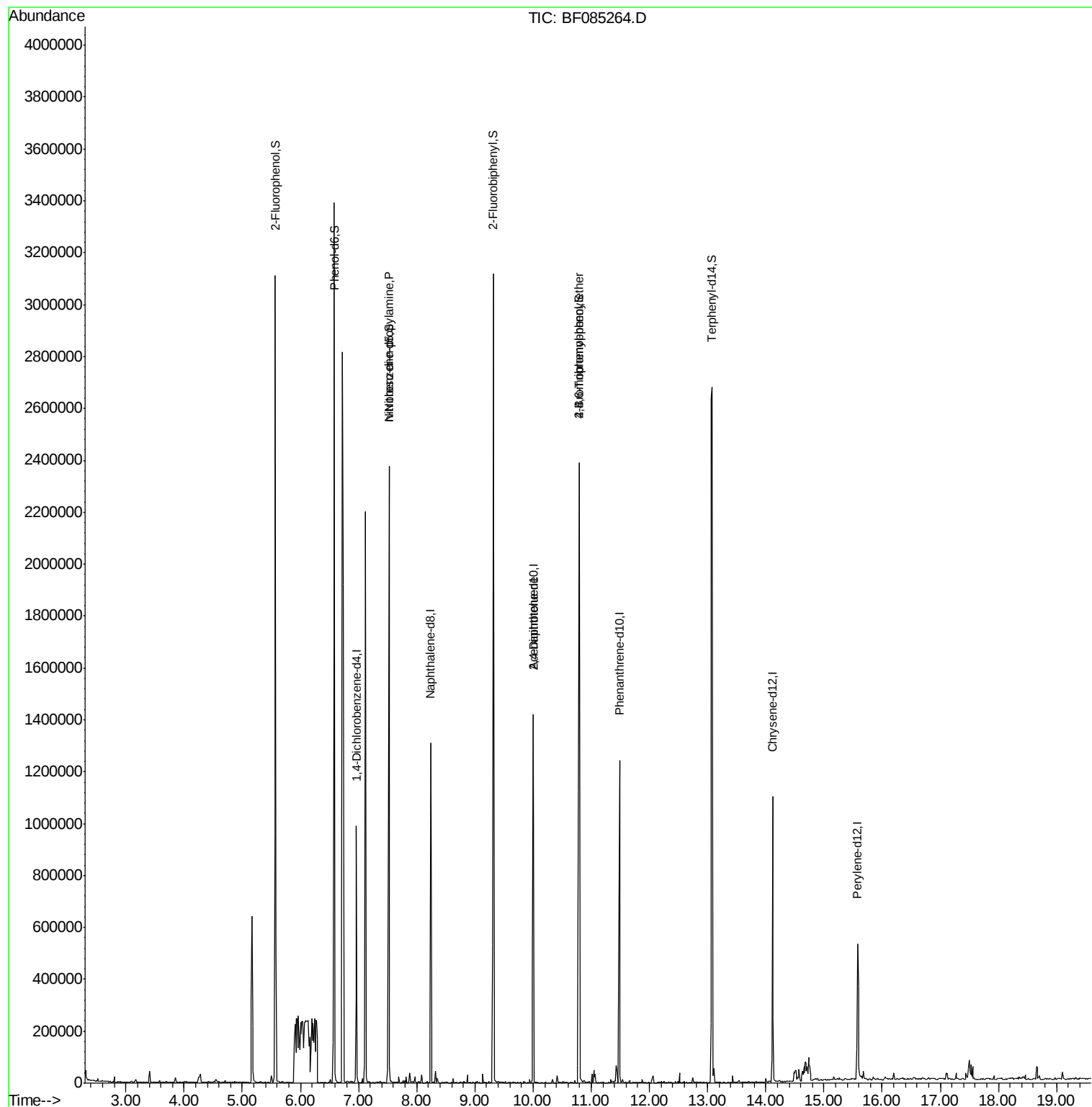
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.96  | 152  | 149861   | 20.00     | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.24  | 136  | 571644   | 20.00     | ng    | -0.02    |
| 38) Acenaphthene-d10           | 10.00 | 164  | 277154   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.49 | 188  | 528075   | 20.00     | ng    | -0.02    |
| 75) Chrysene-d12               | 14.12 | 240  | 349884   | 20.00     | ng    | -0.03    |
| 86) Perylene-d12               | 15.58 | 264  | 251597   | 20.00     | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.57  | 112  | 951833   | 106.54    | ng    | -0.01    |
| 7) Phenol-d6                   | 6.58  | 99   | 1365498  | 116.66    | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.52  | 82   | 846480   | 79.24     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.79 | 330  | 299402   | 126.25    | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.32  | 172  | 1427151  | 78.31     | ng    | -0.03    |
| 78) Terphenyl-d14              | 13.08 | 244  | 1280930  | 84.99     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.58  | 77   | 2161     | Below Cal | #     | 2        |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 114494   | 15.01 ng  | #     | 77       |
| 56) 2,4-Dinitrotoluene         | 10.00 | 165  | 35704    | 6.13 ng   | #     | 22       |
| 66) 4-Bromophenyl-phenylether  | 10.79 | 248  | 21785    | 4.25 ng   | #     | 1        |

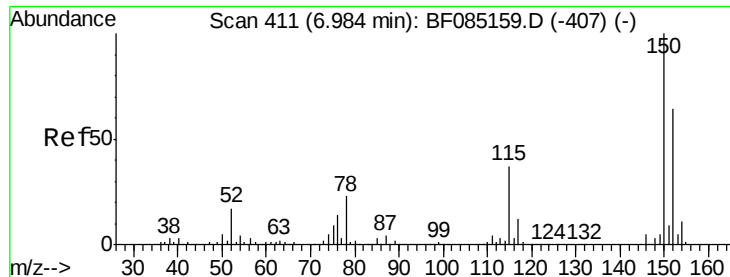
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 09 00:05:16 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 04 00:54:58 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.96 min Scan# 409

Delta R.T. -0.02 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

Instrument :

BNA\_F

ClientSampleId :

PB88757TB

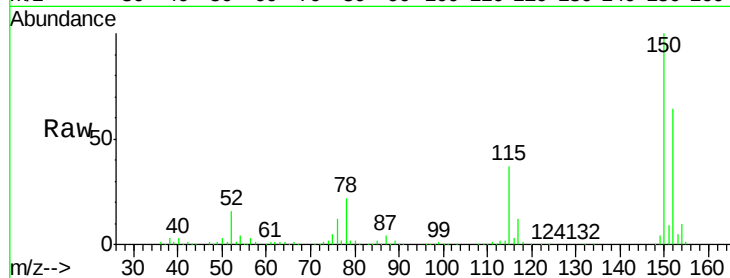
Tgt Ion:152 Resp: 149861

Ion Ratio Lower Upper

152 100

150 156.4 124.6 186.8

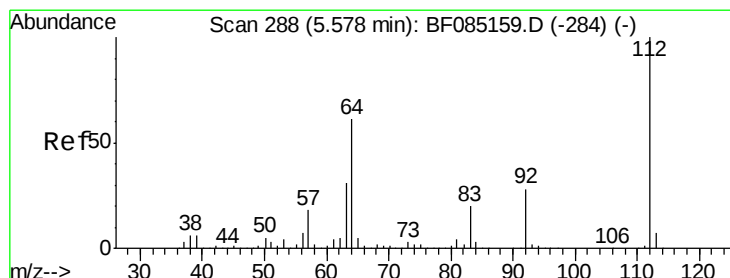
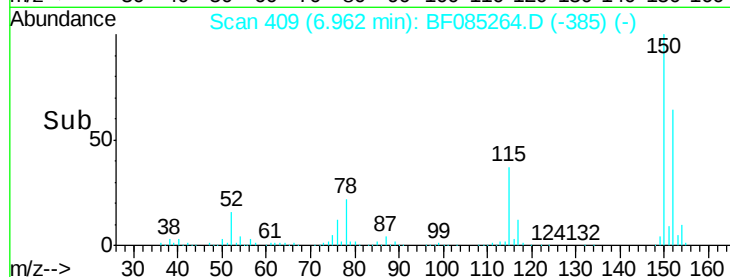
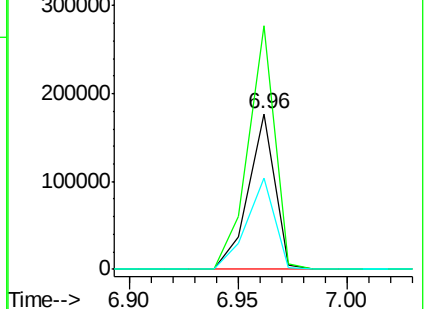
115 58.4 46.6 70.0



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: 106.54 ng

RT: 5.57 min Scan# 287

Delta R.T. -0.01 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

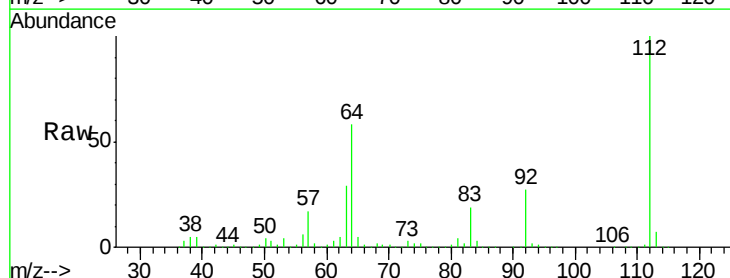
Tgt Ion:112 Resp: 951833

Ion Ratio Lower Upper

112 100

64 58.1 49.0 73.4

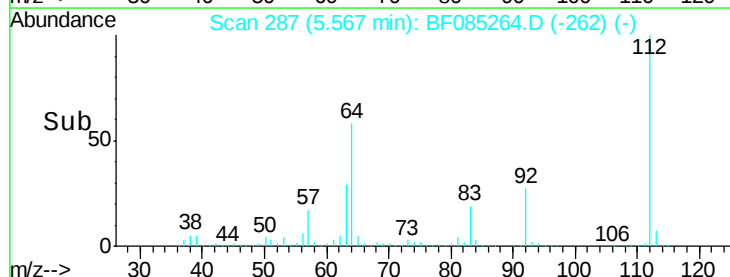
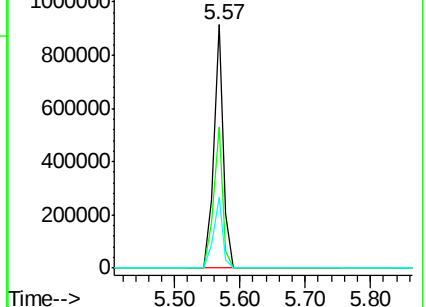
63 29.3 24.8 37.2

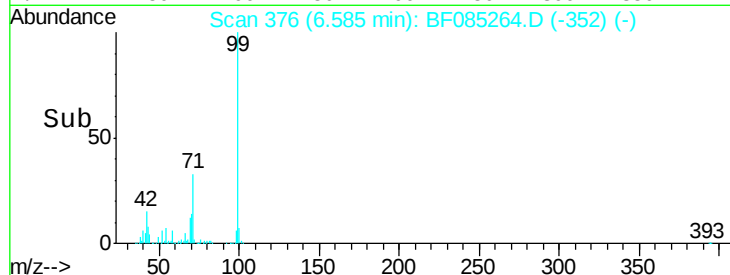
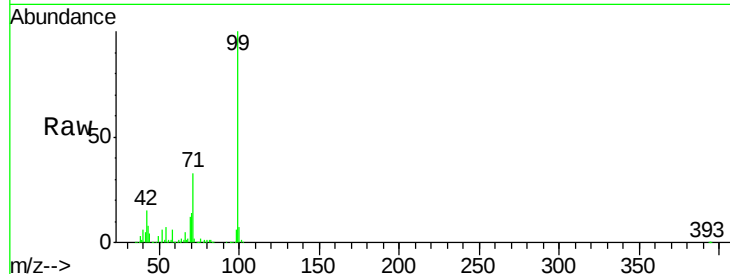
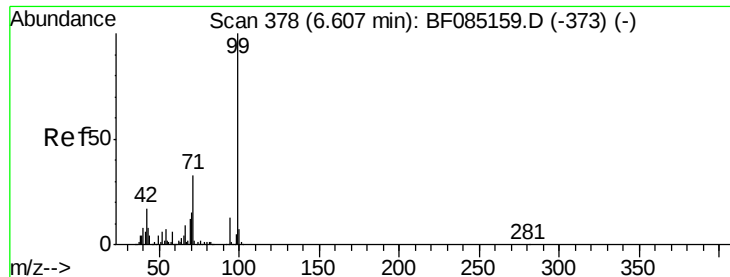


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 116.66 ng

RT: 6.58 min Scan# 376

Delta R.T. -0.02 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

Instrument :

BNA\_F

ClientSampleId :

PB88757TB

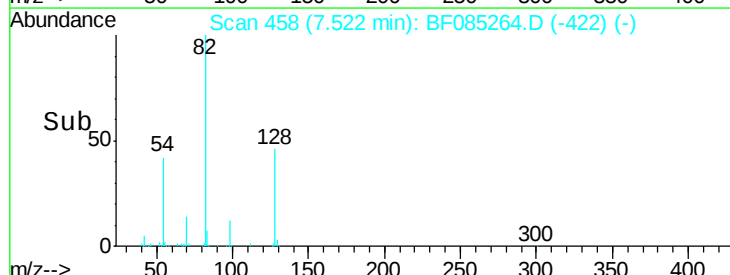
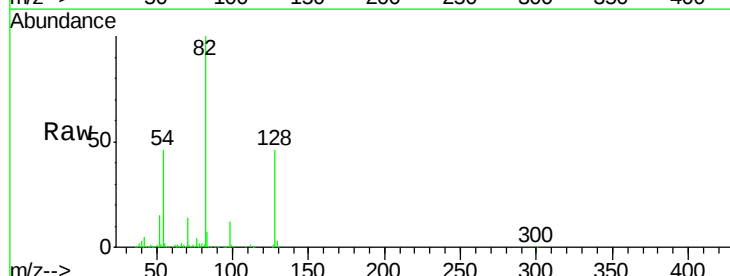
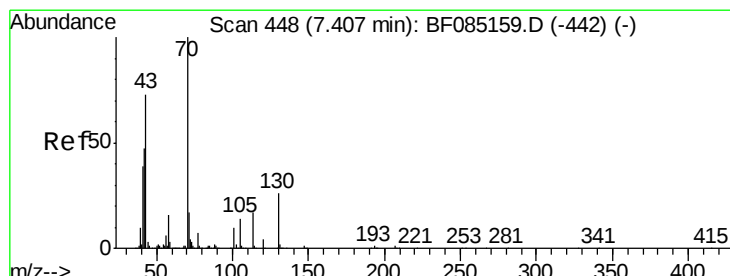
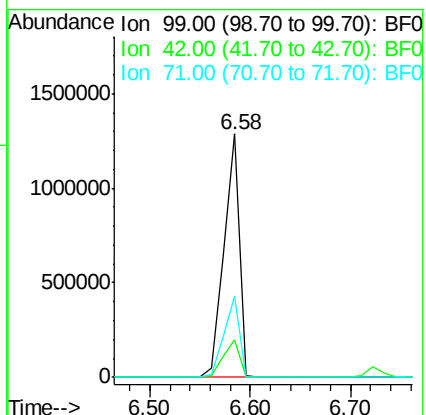
Tgt Ion: 99 Resp: 1365498

Ion Ratio Lower Upper

99 100

42 15.3 13.6 20.4

71 33.1 26.7 40.1



#19

n-Nitroso-di-n-propylamine

Concen: 15.01 ng

RT: 7.52 min Scan# 458

Delta R.T. 0.11 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

Tgt Ion: 70 Resp: 114494

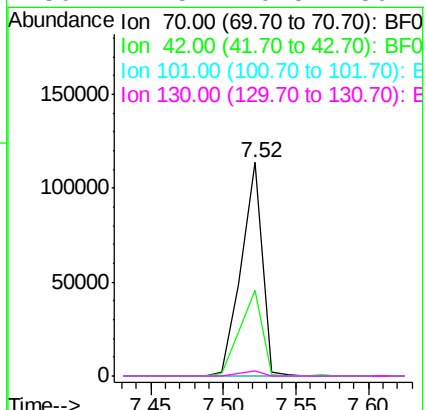
Ion Ratio Lower Upper

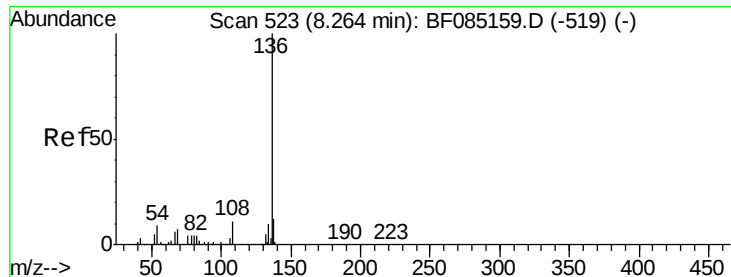
70 100

42 40.0 37.7 56.5

101 0.0 8.2 12.4#

130 2.5 20.5 30.7#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.24 min Scan# 521

Delta R.T. -0.02 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

Instrument :

BNA\_F

ClientSampleId :

PB88757TB

Tgt Ion:136 Resp: 571644

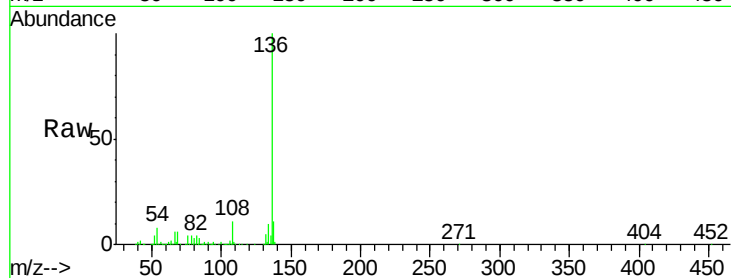
Ion Ratio Lower Upper

136 100

137 11.4 9.3 13.9

54 8.0 7.4 11.2

68 6.4 6.0 9.0

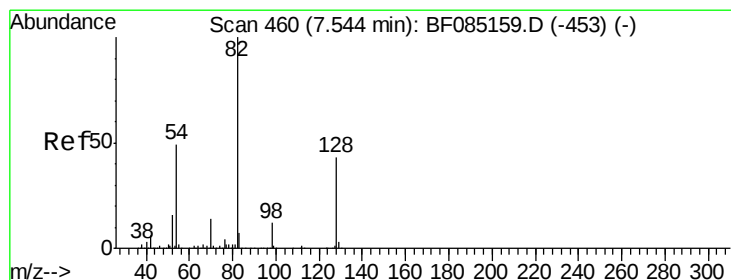
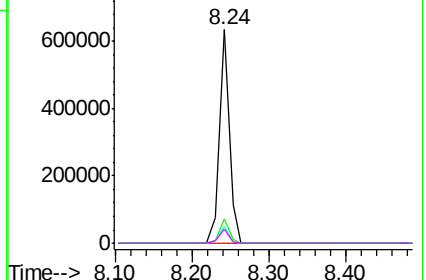
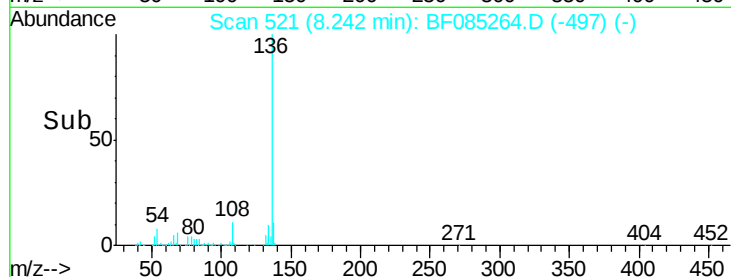


Abundance Ion 136.00 (135.70 to 136.70): E

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: 79.24 ng

RT: 7.52 min Scan# 458

Delta R.T. -0.02 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

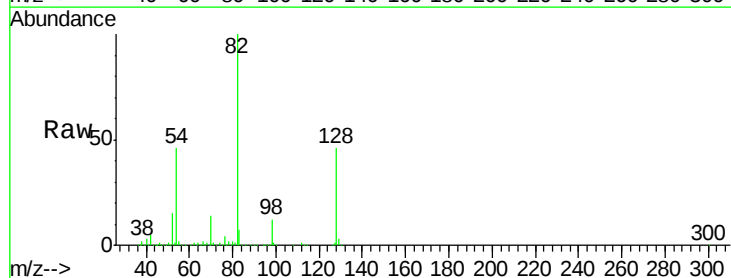
Tgt Ion: 82 Resp: 846480

Ion Ratio Lower Upper

82 100

128 46.0 34.5 51.7

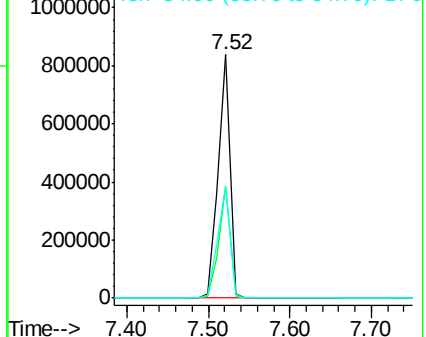
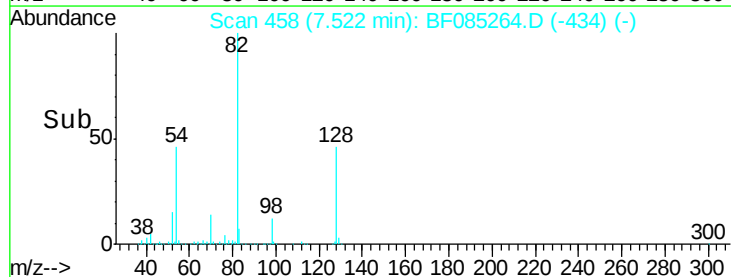
54 45.7 39.3 58.9

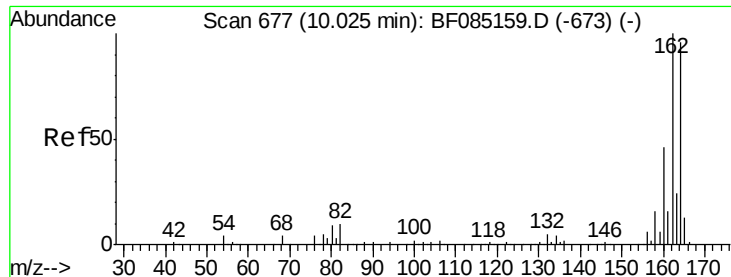


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 10.00 min Scan# 675

Delta R.T. -0.02 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

Instrument :

BNA\_F

ClientSampleId :

PB88757TB

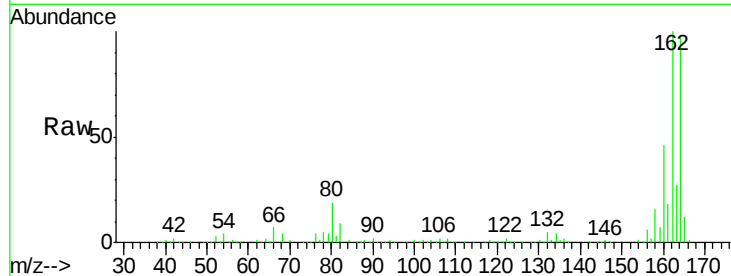
Tgt Ion:164 Resp: 277154

Ion Ratio Lower Upper

164 100

162 103.0 83.3 124.9

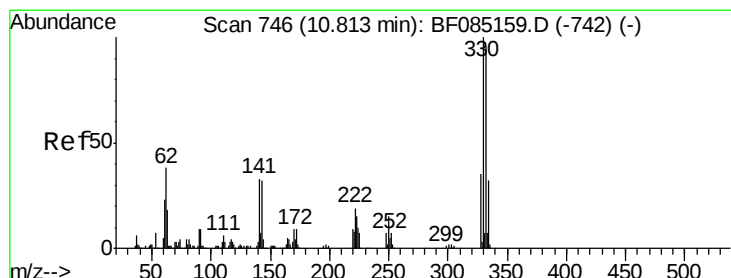
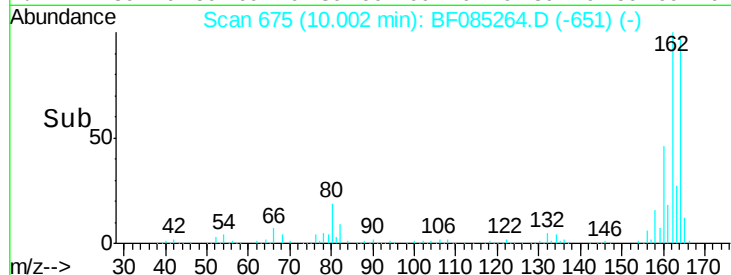
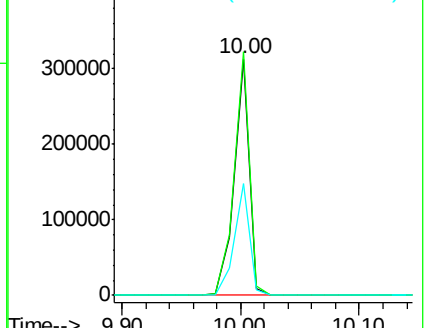
160 47.1 37.9 56.9



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: 126.25 ng

RT: 10.79 min Scan# 744

Delta R.T. -0.02 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

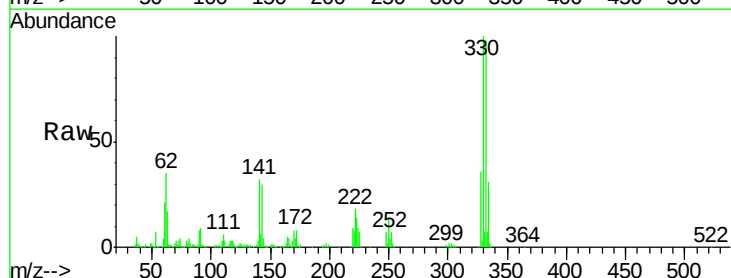
Tgt Ion:330 Resp: 299402

Ion Ratio Lower Upper

330 100

332 97.2 77.1 115.7

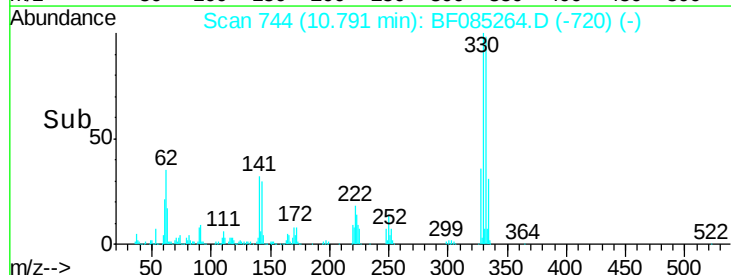
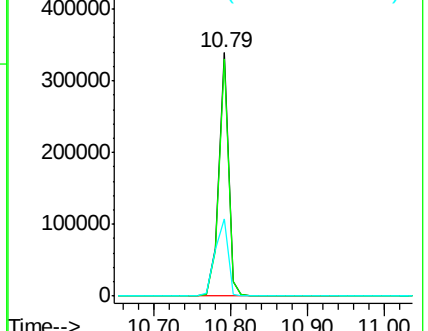
141 41.5 35.0 52.6

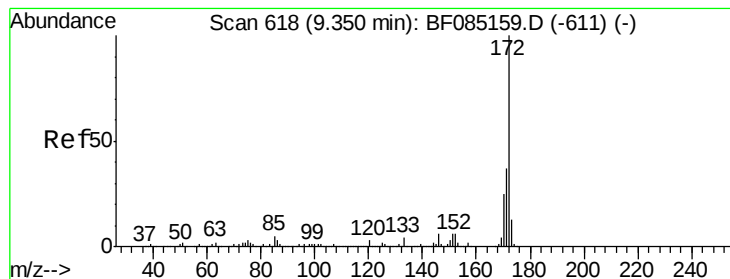


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 78.31 ng

RT: 9.32 min Scan# 615

Delta R.T. -0.03 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

Instrument :

BNA\_F

ClientSampleId :

PB88757TB

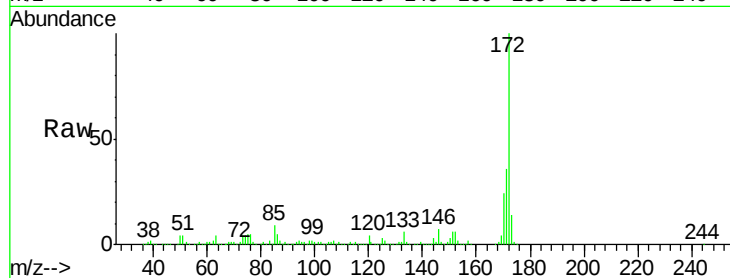
Tgt Ion:172 Resp: 1427151

Ion Ratio Lower Upper

172 100

171 36.1 29.3 43.9

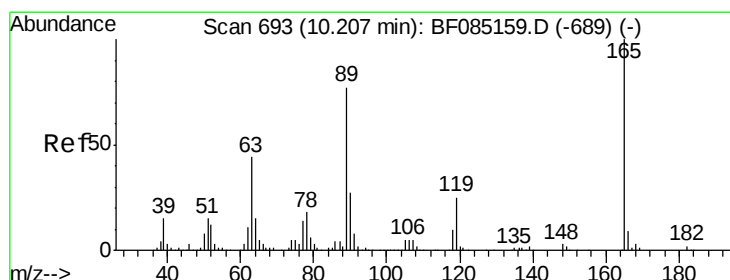
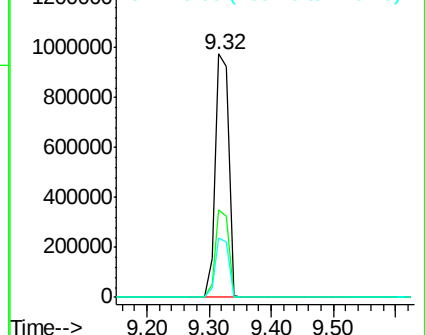
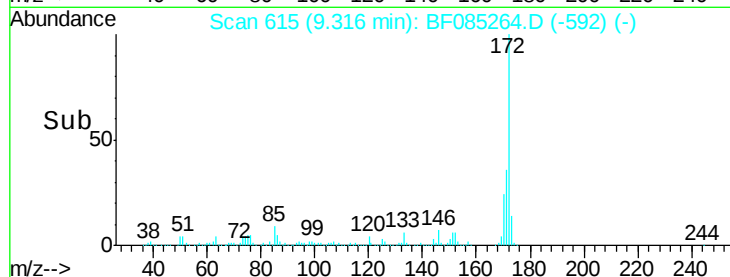
170 24.4 20.0 30.0



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



#56

2,4-Dinitrotoluene

Concen: 6.13 ng

RT: 10.00 min Scan# 675

Delta R.T. -0.21 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

Tgt Ion:165 Resp: 35704

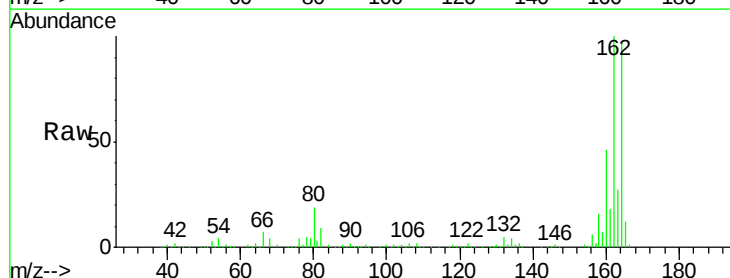
Ion Ratio Lower Upper

165 100

63 1.6 35.4 53.0#

89 1.7 61.9 92.9#

182 0.0 1.9 2.9#

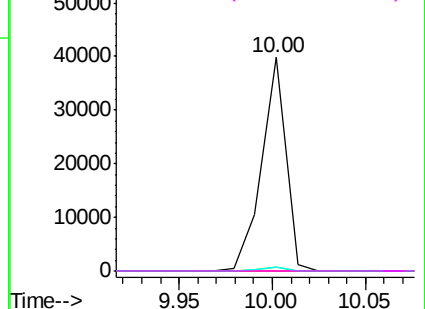
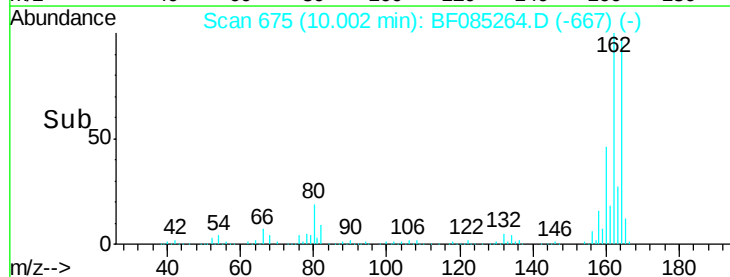


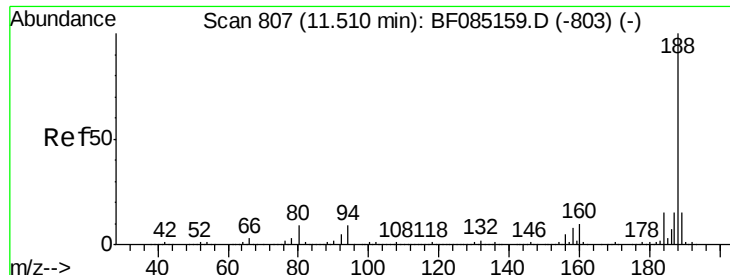
Abundance Ion 165.00 (164.70 to 165.70): E

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

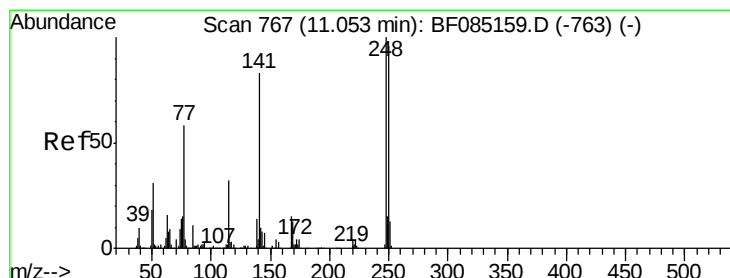
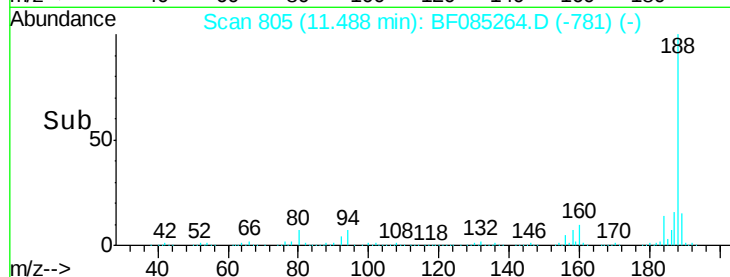
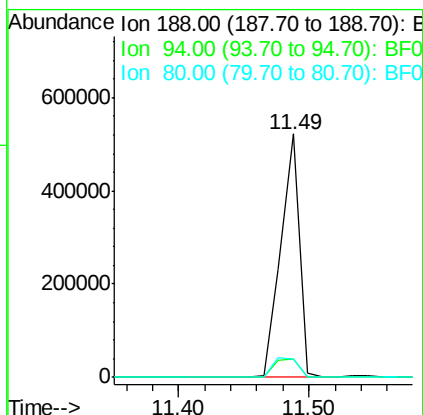
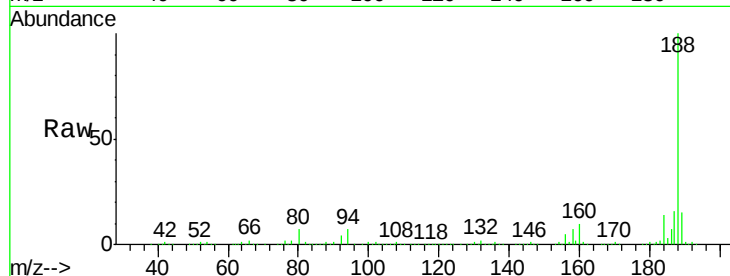




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.49 min Scan# 805  
 Delta R.T. -0.02 min  
 Lab File: BF085264.D  
 Acq: 8 Mar 2016 19:16

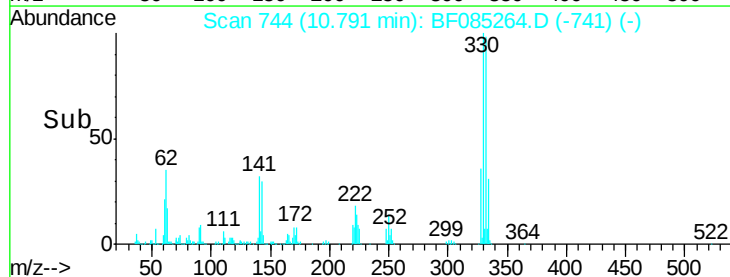
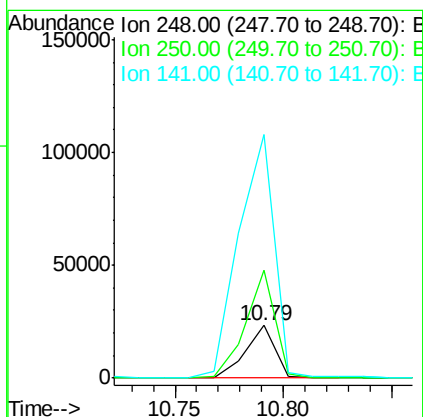
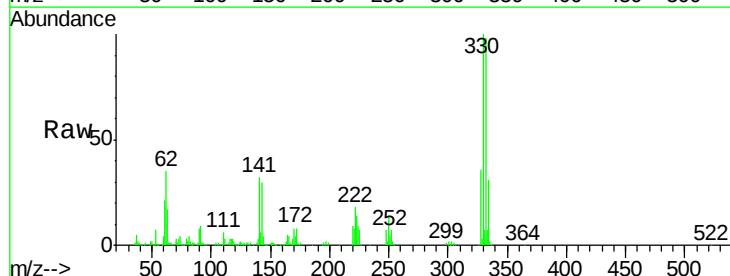
Instrument :  
 BNA\_F  
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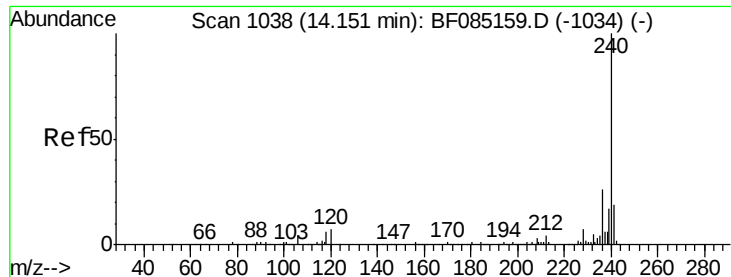
Tgt Ion:188 Resp: 528075  
 Ion Ratio Lower Upper  
 188 100  
 94 7.4 7.0 10.6  
 80 7.5 7.4 11.0



#66  
 4-Bromophenyl-phenylether  
 Concen: 4.25 ng  
 RT: 10.79 min Scan# 744  
 Delta R.T. -0.26 min  
 Lab File: BF085264.D  
 Acq: 8 Mar 2016 19:16

Tgt Ion:248 Resp: 21785  
 Ion Ratio Lower Upper  
 248 100  
 250 206.4 77.1 115.7#  
 141 464.1 66.2 99.2#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.12 min Scan# 1035

Delta R.T. -0.03 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

Instrument :

BNA\_F

ClientSampleId :

PB88757TB

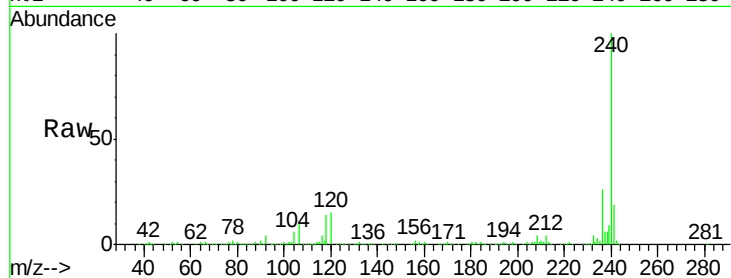
Tgt Ion:240 Resp: 349884

Ion Ratio Lower Upper

240 100

120 15.4 5.3 7.9#

236 26.1 20.7 31.1

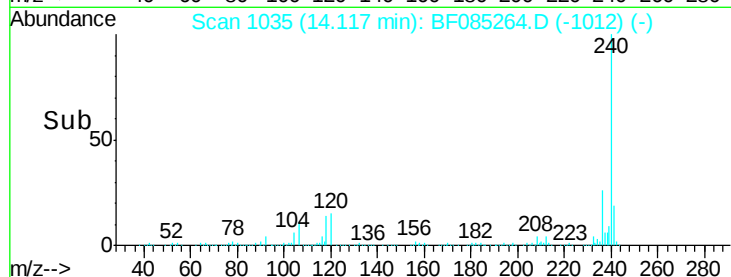


Abundance Ion 240.00 (239.70 to 240.70): E

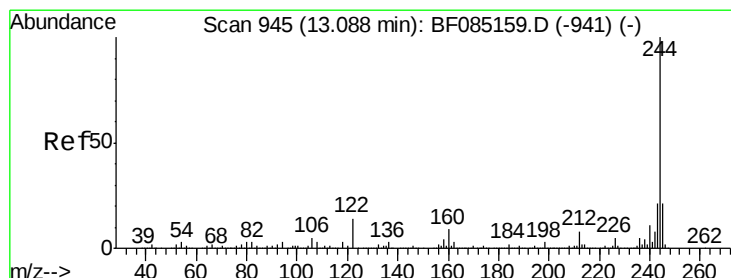
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

14.12



Time--> 14.00 14.10 14.20 14.30



#78

Terphenyl-d14

Concen: 84.99 ng

RT: 13.08 min Scan# 944

Delta R.T. -0.01 min

Lab File: BF085264.D

Acq: 8 Mar 2016 19:16

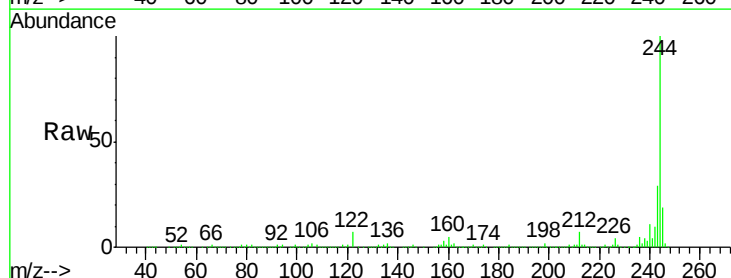
Tgt Ion:244 Resp: 1280930

Ion Ratio Lower Upper

244 100

212 6.7 6.4 9.6

122 6.8 11.4 17.2#

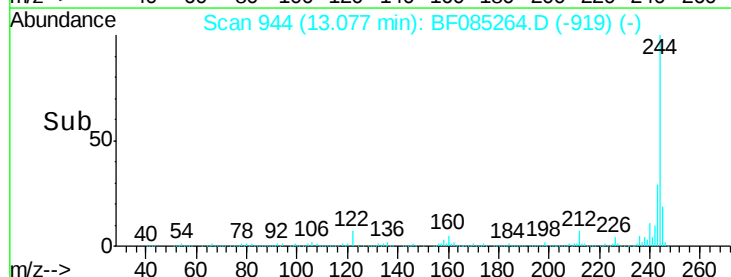


Abundance Ion 244.00 (243.70 to 244.70): E

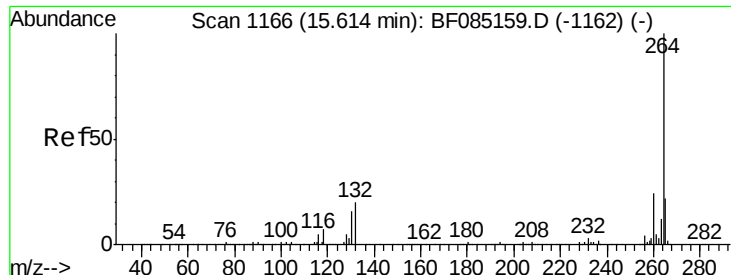
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

13.08



Time--> 13.00 13.20



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.58 min Scan# 1163  
Delta R.T. -0.03 min  
Lab File: BF085264.D  
Acq: 8 Mar 2016 19:16

Instrument :  
BNA\_F  
ClientSampleId :  
PB88757TB

Tgt Ion: 264 Resp: 251597  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.2 28.8  
265 21.4 17.3 25.9

