

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112615\  
 Data File : BF083325.D  
 Acq On : 26 Nov 2015 18:05  
 Operator : UM/IZ  
 Sample : G4553-04  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 112115-A263-E-D-S

Quant Time: Nov 27 00:14:26 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

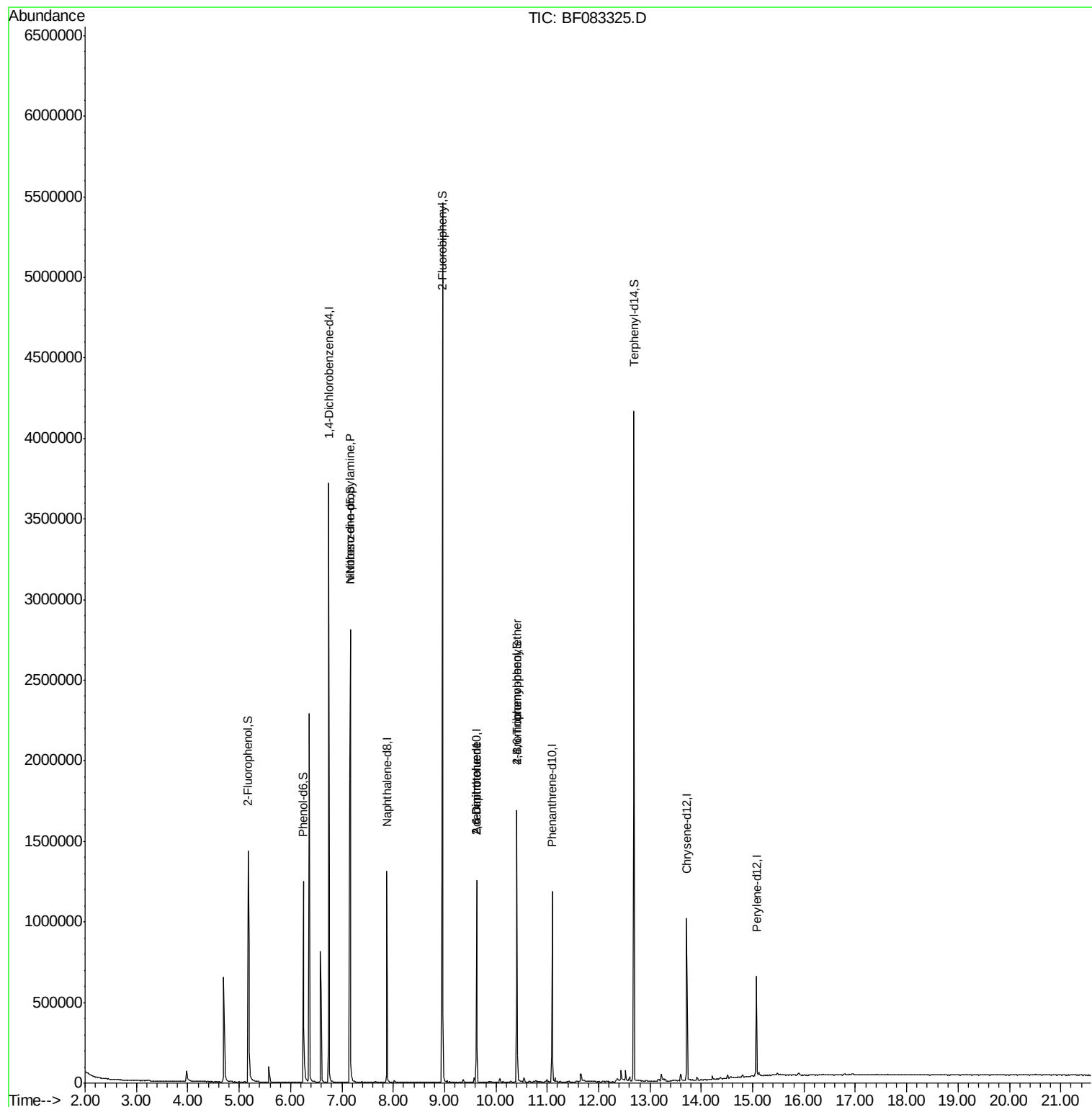
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.74  | 152  | 579603   | 20.00     | ng    | 0.08     |
| 21) Naphthalene-d8             | 7.87  | 136  | 566170   | 20.00     | ng    | -0.08    |
| 38) Acenaphthene-d10           | 9.62  | 164  | 234574   | 20.00     | ng    | -0.08    |
| 63) Phenanthrene-d10           | 11.10 | 188  | 409939   | 20.00     | ng    | -0.08    |
| 75) Chrysene-d12               | 13.71 | 240  | 424652   | 20.00     | ng    | -0.09    |
| 86) Perylene-d12               | 15.07 | 264  | 319787   | 20.00     | ng    | -0.09    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.18  | 112  | 505239   | 13.18     | ng    | -0.10    |
| 7) Phenol-d6                   | 6.25  | 99   | 449325   | 9.06      | ng    | -0.09    |
| 23) Nitrobenzene-d5            | 7.16  | 82   | 1220124  | 98.47     | ng    | -0.07    |
| 41) 2,4,6-Tribromophenol       | 10.41 | 330  | 191888   | 79.96     | ng    | -0.08    |
| 44) 2-Fluorobiphenyl           | 8.96  | 172  | 1596301  | 94.89     | ng    | -0.07    |
| 78) Terphenyl-d14              | 12.68 | 244  | 1376703  | 76.34     | ng    | -0.08    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.36  | 77   | 20217    | Below Cal | #     | 79       |
| 19) n-Nitroso-di-n-propylamine | 7.16  | 70   | 163304   | 4.73 ng   | #     | 72       |
| 50) 2,6-Dinitrotoluene         | 9.62  | 165  | 30100    | 7.43 ng   | #     | 13       |
| 56) 2,4-Dinitrotoluene         | 9.62  | 165  | 30102    | 5.86 ng   | #     | 10       |
| 66) 4-Bromophenyl-phenylether  | 10.41 | 248  | 13702    | 3.01 ng   | #     | 1        |

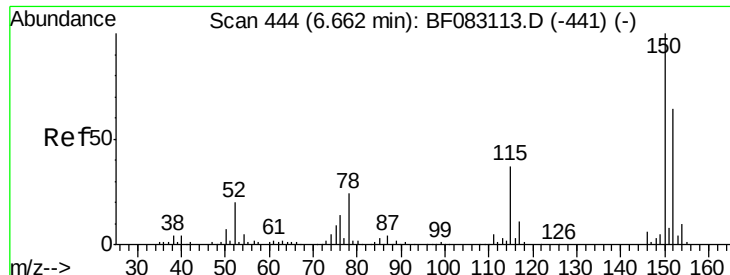
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 27 00:14:26 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 416

Delta R.T. 0.08 min

Lab File: BF083325.D

Acq: 26 Nov 2015 18:05

Instrument :

BNA\_F

ClientSampleId :

112115-A263-E-D-S

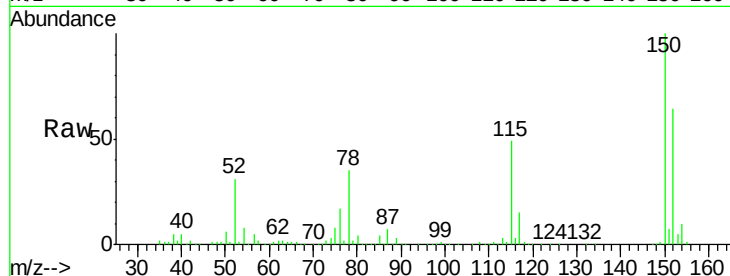
Tgt Ion:152 Resp: 579603

Ion Ratio Lower Upper

152 100

150 156.8 125.8 188.8

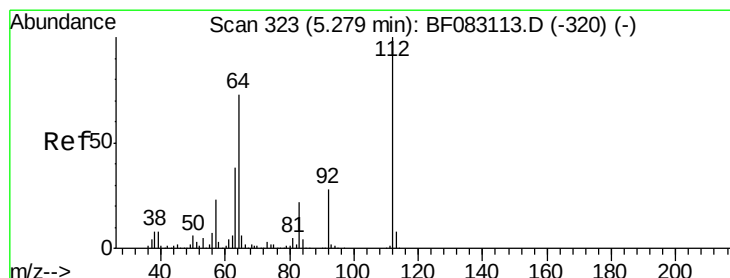
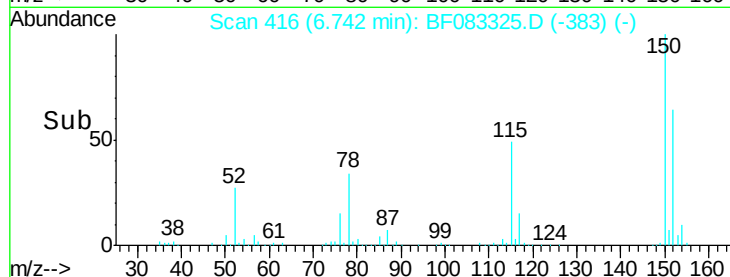
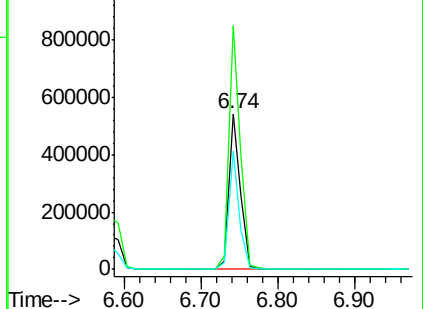
115 76.2 46.9 70.3#



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: 13.18 ng

RT: 5.18 min Scan# 279

Delta R.T. -0.10 min

Lab File: BF083325.D

Acq: 26 Nov 2015 18:05

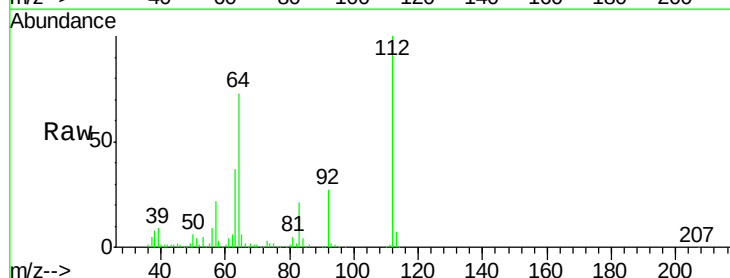
Tgt Ion:112 Resp: 505239

Ion Ratio Lower Upper

112 100

64 73.2 58.4 87.6

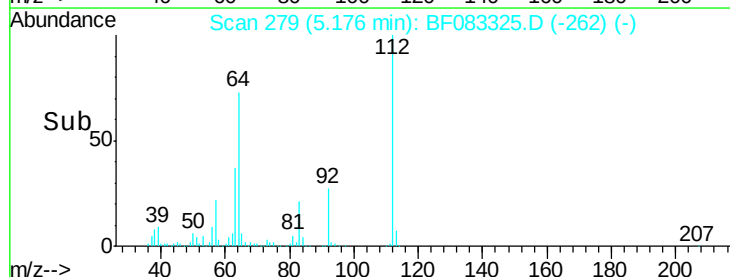
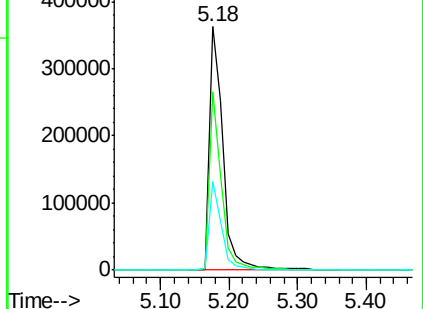
63 36.6 30.0 45.0

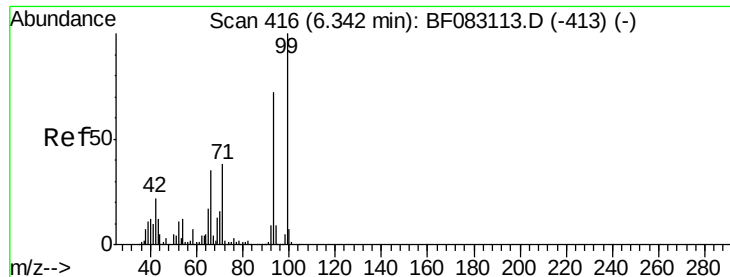


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 9.06 ng

RT: 6.25 min Scan# 373

Delta R.T. -0.09 min

Lab File: BF083325.D

Acq: 26 Nov 2015 18:05

Instrument :

BNA\_F

ClientSampleId :

112115-A263-E-D-S

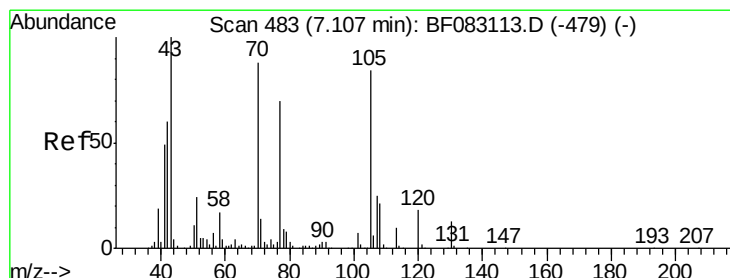
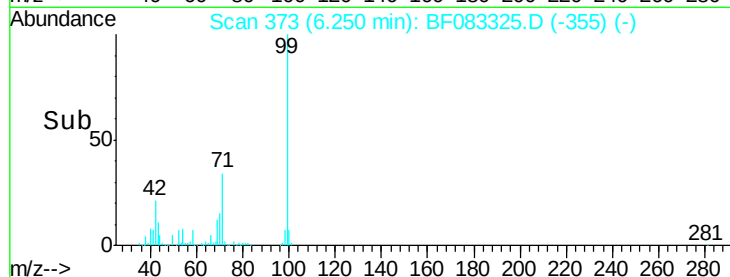
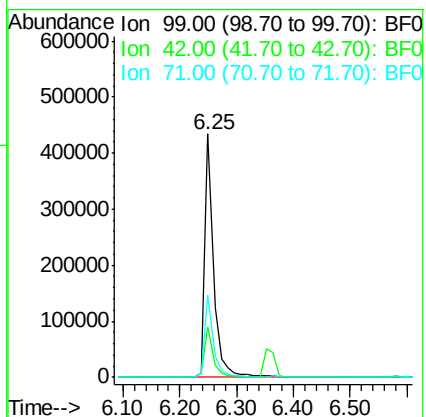
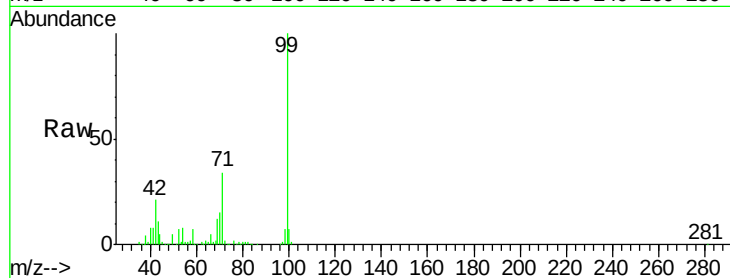
Tgt Ion: 99 Resp: 449325

Ion Ratio Lower Upper

99 100

42 20.7 17.7 26.5

71 33.8 30.2 45.4



#19

n-Nitroso-di-n-propylamine

Concen: 4.73 ng

RT: 7.16 min Scan# 453

Delta R.T. 0.06 min

Lab File: BF083325.D

Acq: 26 Nov 2015 18:05

Tgt Ion: 70 Resp: 163304

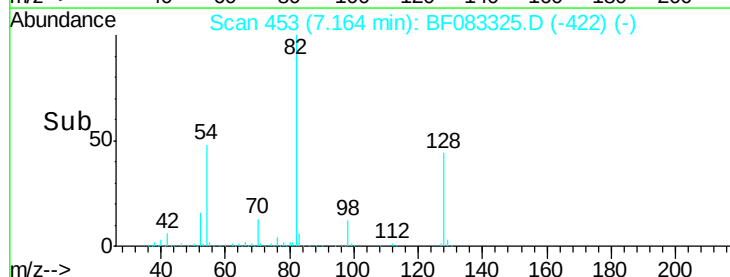
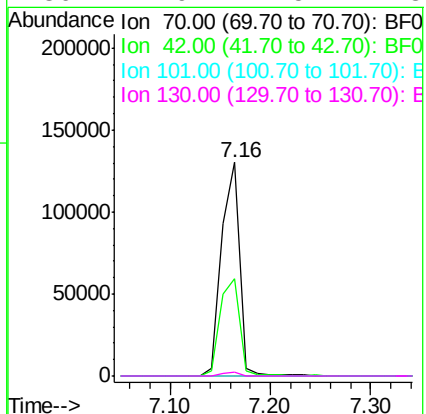
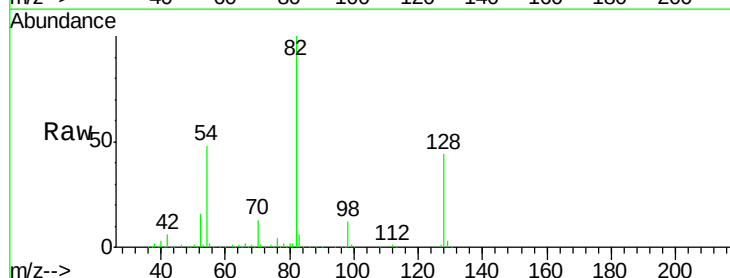
Ion Ratio Lower Upper

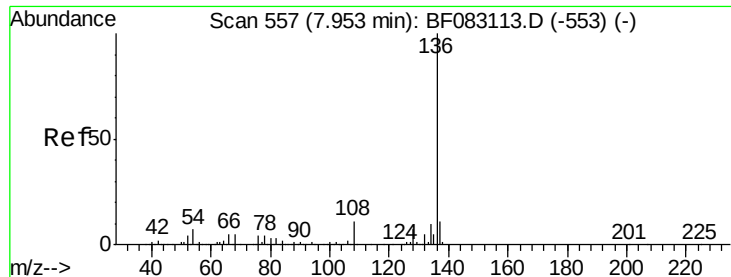
70 100

42 45.8 54.5 81.7#

101 0.0 6.6 9.8#

130 1.9 11.5 17.3#

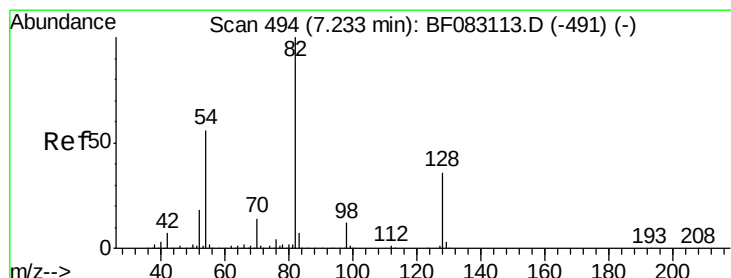
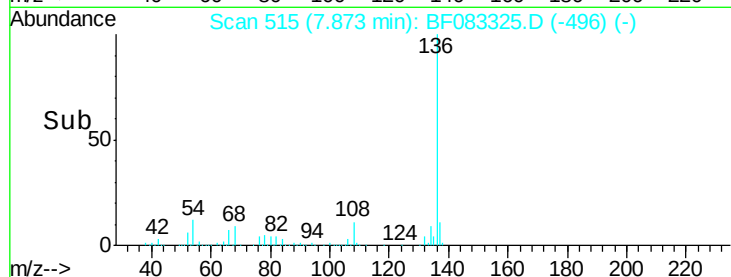
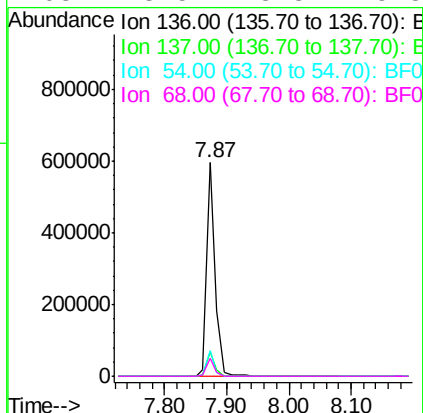
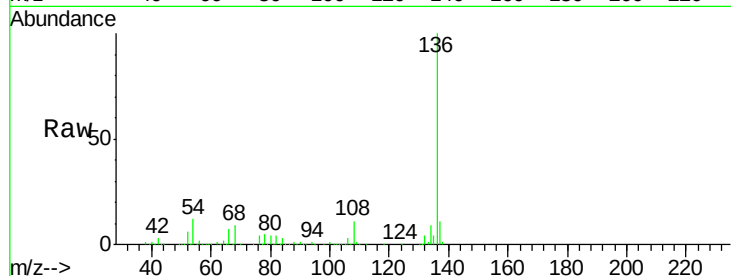




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.87 min Scan# 515  
Delta R.T. -0.08 min  
Lab File: BF083325.D  
Acq: 26 Nov 2015 18:05

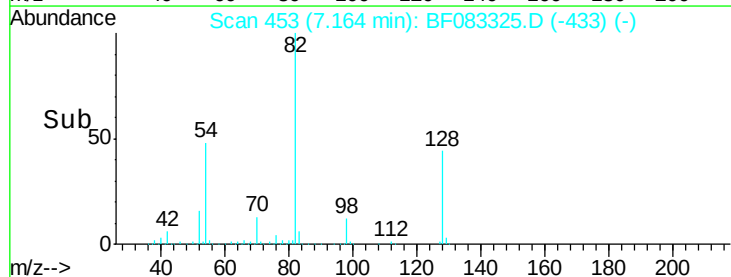
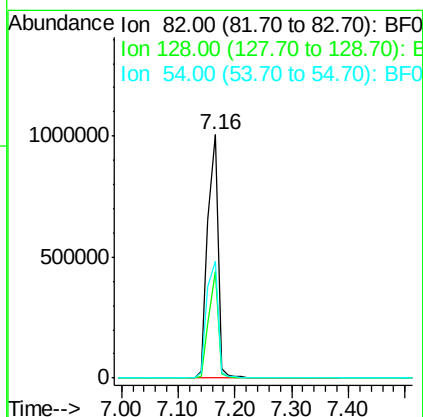
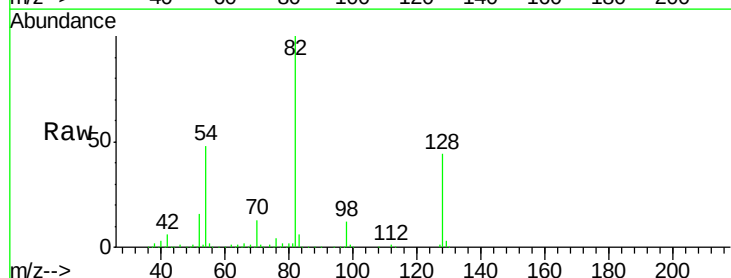
Instrument :  
BNA\_F  
ClientSampleId :  
112115-A263-E-D-S

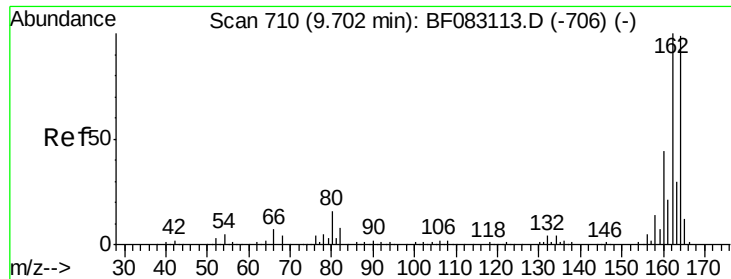
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 566170 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.7   | 13.1   |
| 54       | 12.2  | 5.8   | 8.6#   |
| 68       | 8.5   | 3.8   | 5.8#   |



#23  
Nitrobenzene-d5  
Concen: 98.47 ng  
RT: 7.16 min Scan# 453  
Delta R.T. -0.07 min  
Lab File: BF083325.D  
Acq: 26 Nov 2015 18:05

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1220124 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 43.6  | 28.5  | 42.7#   |
| 54       | 48.0  | 44.6  | 67.0    |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.62 min Scan# 668

Delta R.T. -0.08 min

Lab File: BF083325.D

Acq: 26 Nov 2015 18:05

Instrument :

BNA\_F

ClientSampleId :

112115-A263-E-D-S

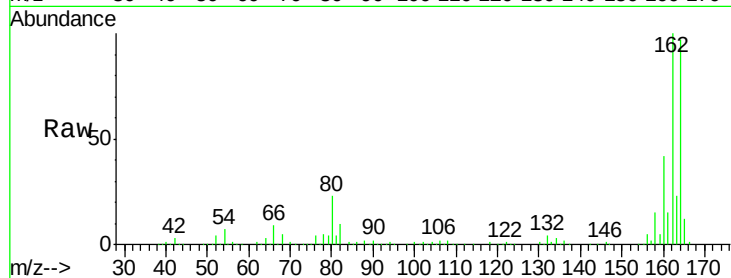
Tgt Ion:164 Resp: 234574

Ion Ratio Lower Upper

164 100

162 103.0 81.2 121.8

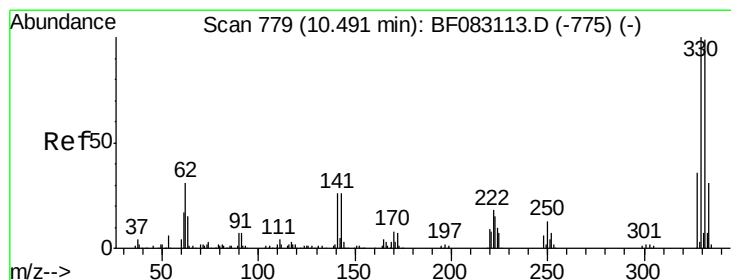
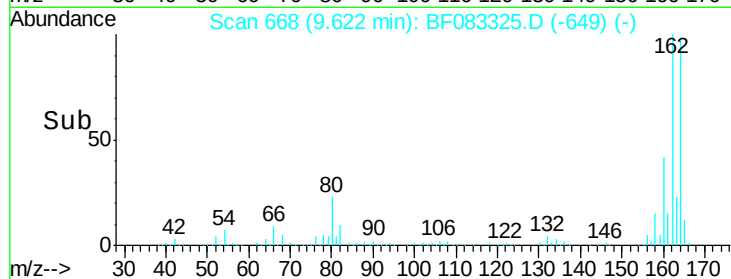
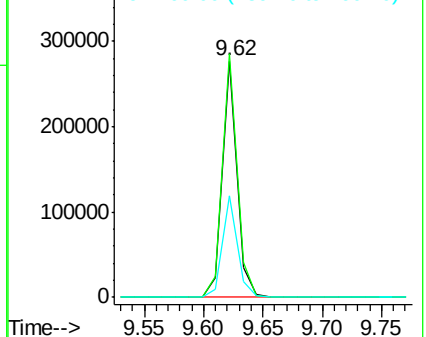
160 42.9 35.6 53.4



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: 79.96 ng

RT: 10.41 min Scan# 737

Delta R.T. -0.08 min

Lab File: BF083325.D

Acq: 26 Nov 2015 18:05

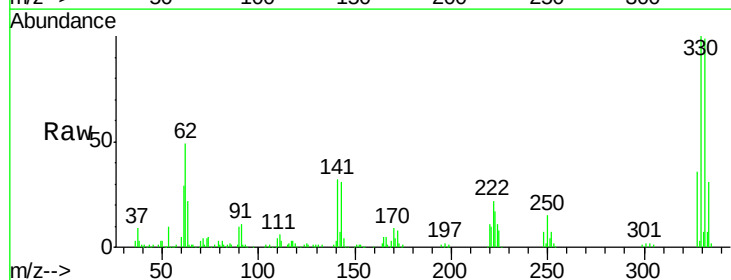
Tgt Ion:330 Resp: 191888

Ion Ratio Lower Upper

330 100

332 98.7 77.7 116.5

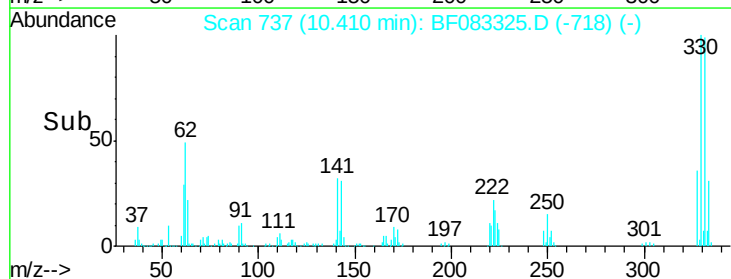
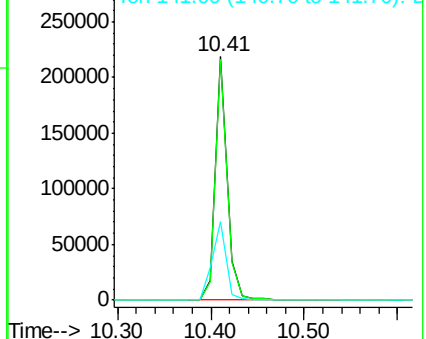
141 38.0 29.7 44.5

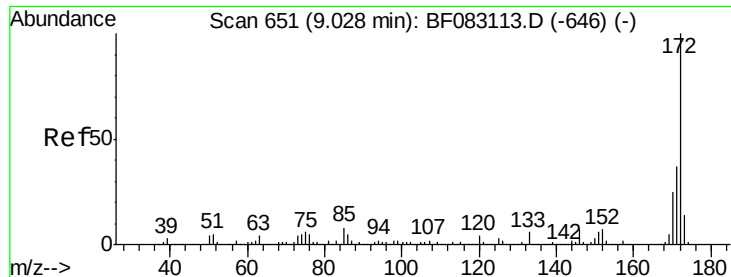


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

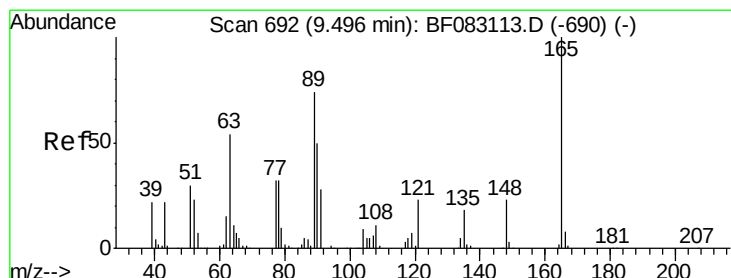
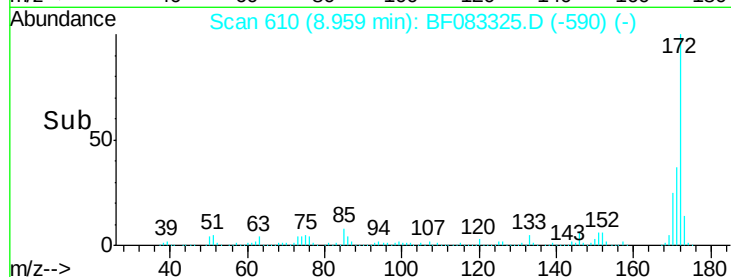
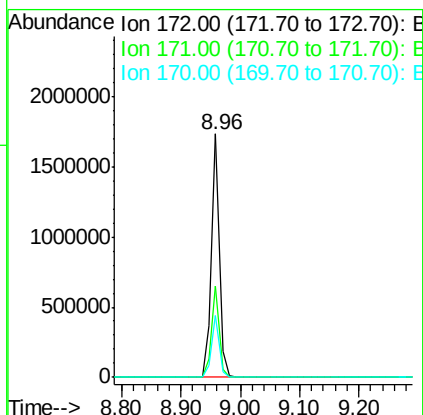
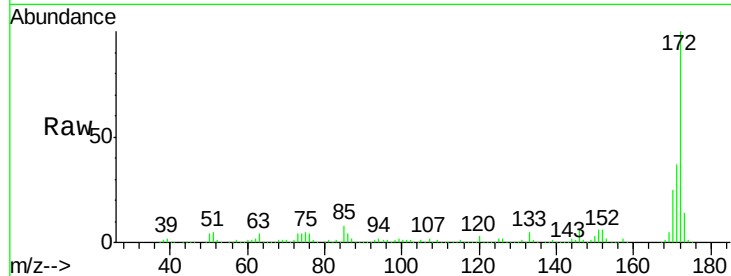




#44  
 2-Fluorobiphenyl  
 Concen: 94.89 ng  
 RT: 8.96 min Scan# 610  
 Delta R.T. -0.07 min  
 Lab File: BF083325.D  
 Acq: 26 Nov 2015 18:05

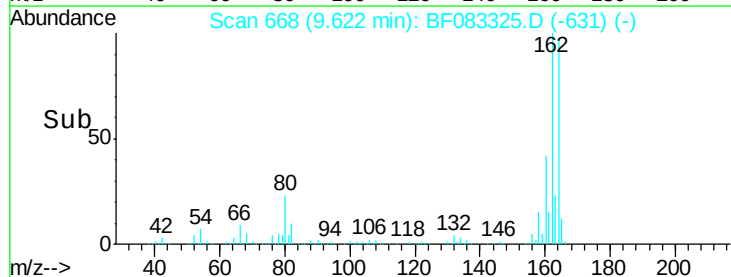
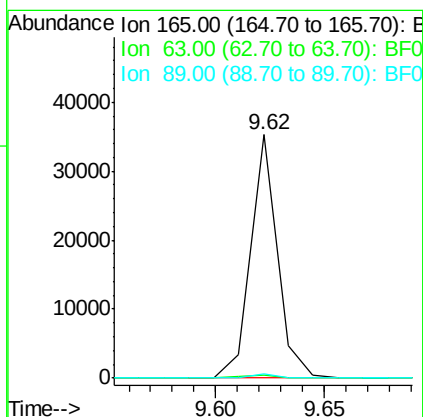
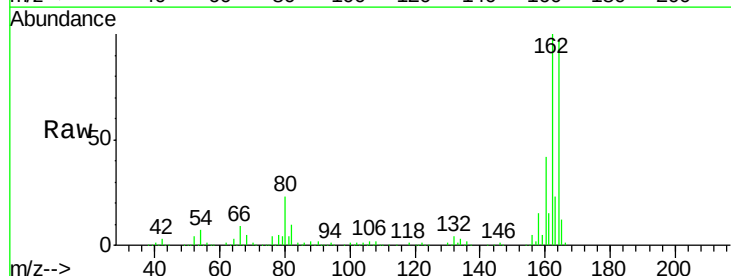
Instrument :  
 BNA\_F  
 ClientSampleId :  
 112115-A263-E-D-S

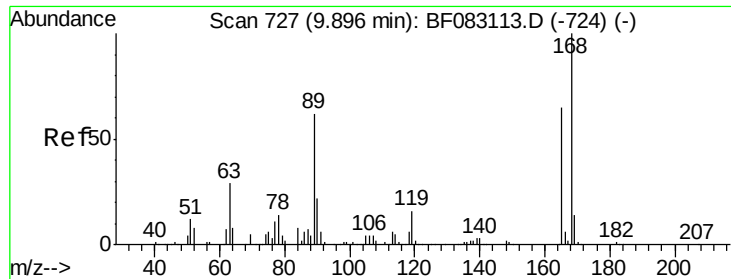
Tgt Ion:172 Resp: 1596301  
 Ion Ratio Lower Upper  
 172 100  
 171 37.4 29.5 44.3  
 170 25.3 19.9 29.9



#50  
 2,6-Dinitrotoluene  
 Concen: 7.43 ng  
 RT: 9.62 min Scan# 668  
 Delta R.T. 0.13 min  
 Lab File: BF083325.D  
 Acq: 26 Nov 2015 18:05

Tgt Ion:165 Resp: 30100  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 62.5 93.7#  
 89 2.0 59.1 88.7#

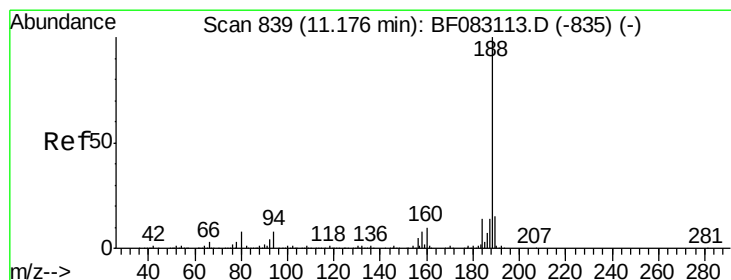
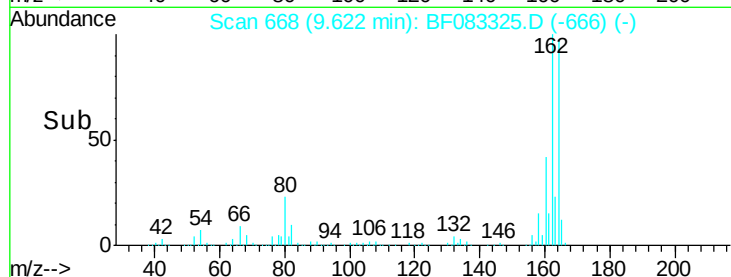
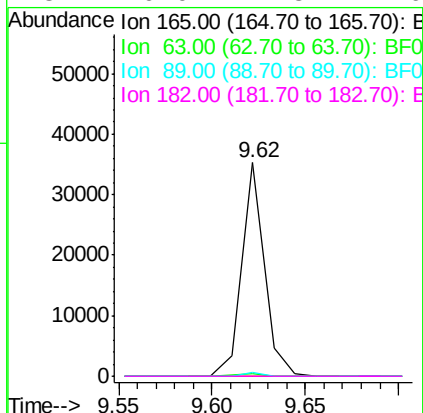
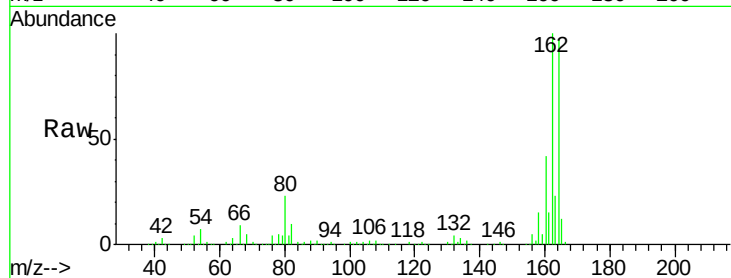




#56  
2,4-Dinitrotoluene  
Concen: 5.86 ng  
RT: 9.62 min Scan# 668  
Delta R.T. -0.27 min  
Lab File: BF083325.D  
Acq: 26 Nov 2015 18:05

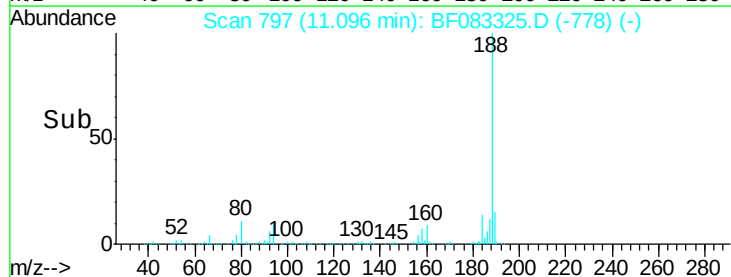
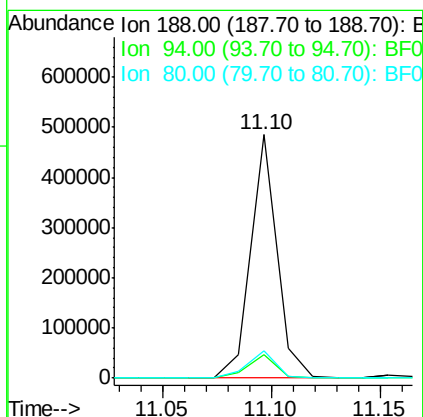
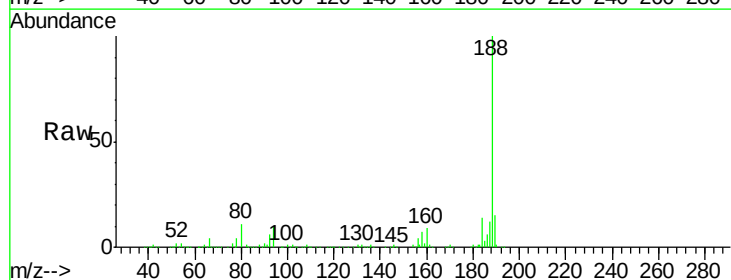
Instrument :  
BNA\_F  
ClientSampleId :  
112115-A263-E-D-S

Tgt Ion:165 Resp: 30102  
Ion Ratio Lower Upper  
165 100  
63 1.4 54.5 81.7#  
89 2.0 77.3 115.9#  
182 0.0 1.8 2.6#

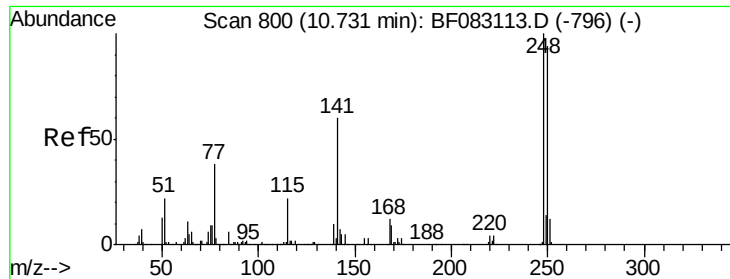


#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.10 min Scan# 797  
Delta R.T. -0.08 min  
Lab File: BF083325.D  
Acq: 26 Nov 2015 18:05

Tgt Ion:188 Resp: 409939  
Ion Ratio Lower Upper  
188 100  
94 9.8 6.0 9.0#  
80 11.2 6.7 10.1#



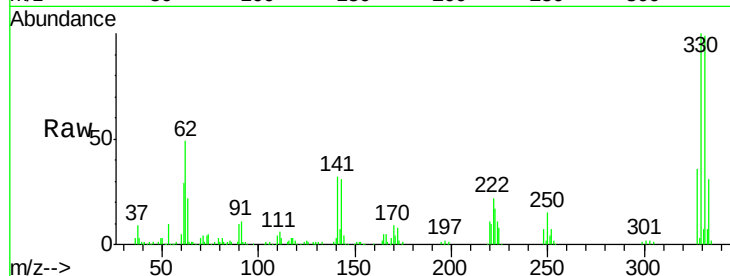




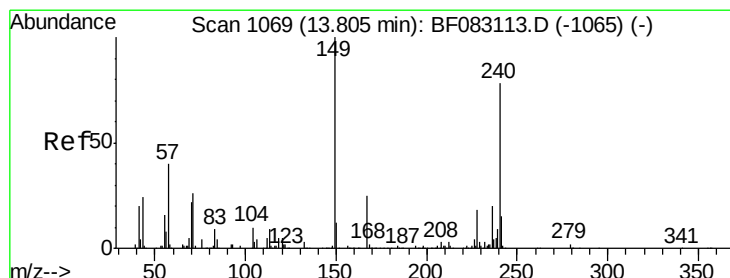
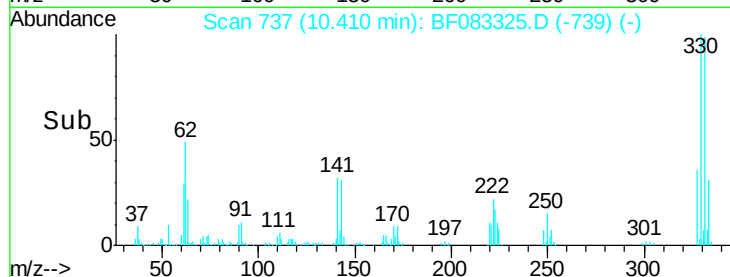
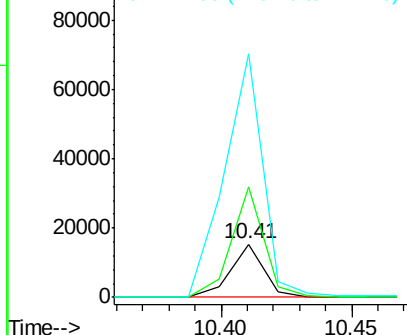
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.01 ng  
 RT: 10.41 min Scan# 737  
 Delta R.T. -0.32 min  
 Lab File: BF083325.D  
 Acq: 26 Nov 2015 18:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 112115-A263-E-D-S

Tgt Ion:248 Resp: 13702  
 Ion Ratio Lower Upper  
 248 100  
 250 208.7 75.4 113.2#  
 141 459.5 48.1 72.1#

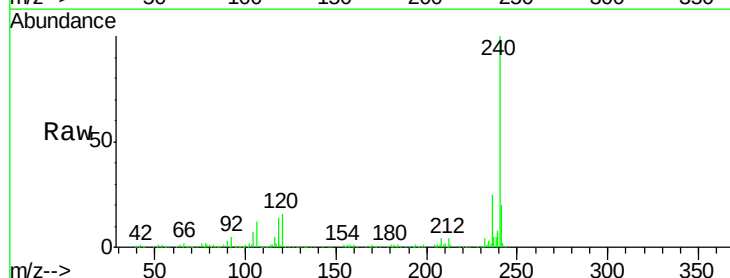


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

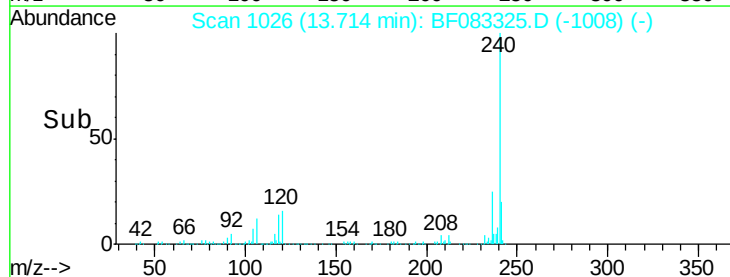
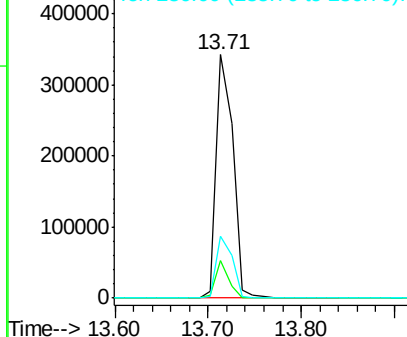


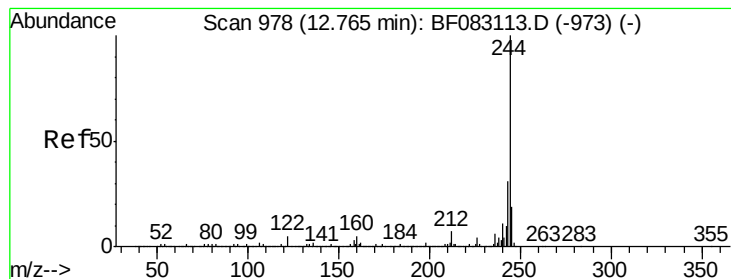
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.71 min Scan# 1026  
 Delta R.T. -0.09 min  
 Lab File: BF083325.D  
 Acq: 26 Nov 2015 18:05

Tgt Ion:240 Resp: 424652  
 Ion Ratio Lower Upper  
 240 100  
 120 15.6 5.4 8.2#  
 236 25.2 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: 76.34 ng

RT: 12.68 min Scan# 936

Delta R.T. -0.08 min

Lab File: BF083325.D

Acq: 26 Nov 2015 18:05

Instrument :

BNA\_F

ClientSampleId :

112115-A263-E-D-S

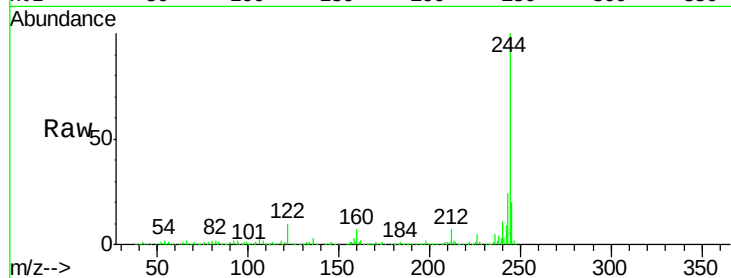
Tgt Ion:244 Resp: 1376703

Ion Ratio Lower Upper

244 100

212 7.4 5.4 8.2

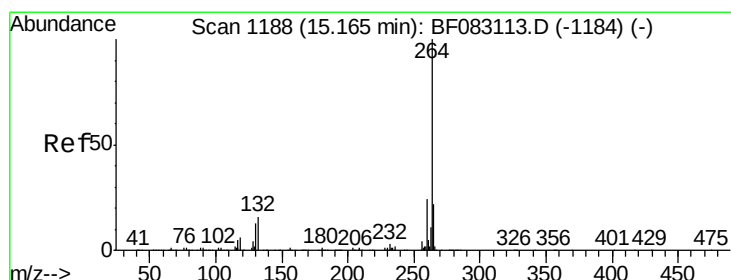
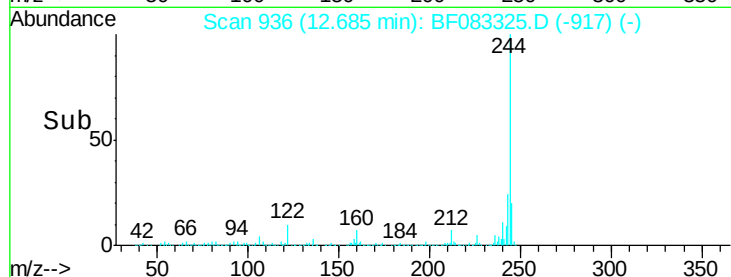
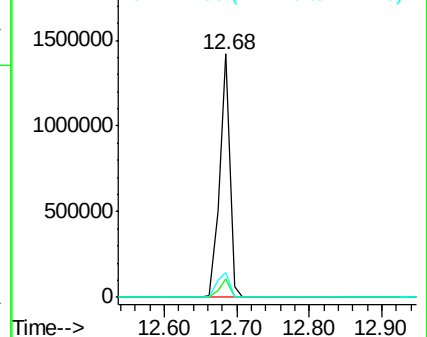
122 10.3 4.3 6.5#



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: 15.07 min Scan# 1145

Delta R.T. -0.09 min

Lab File: BF083325.D

Acq: 26 Nov 2015 18:05

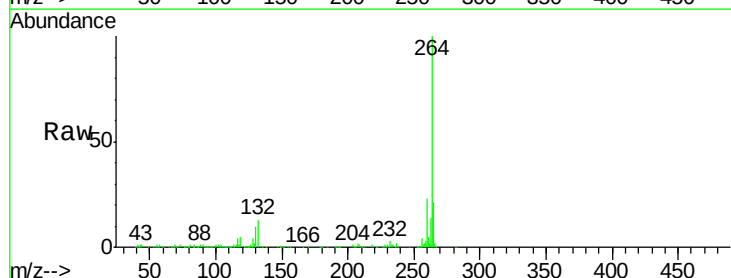
Tgt Ion:264 Resp: 319787

Ion Ratio Lower Upper

264 100

260 23.0 19.1 28.7

265 20.6 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

