

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120115\  
 Data File : BF083407.D  
 Acq On : 2 Dec 2015 8:47  
 Operator : UM/IZ  
 Sample : G4538-02  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 W-14

Quant Time: Dec 02 09:41:29 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 01 01:17:16 2015  
 Response via : Initial Calibration

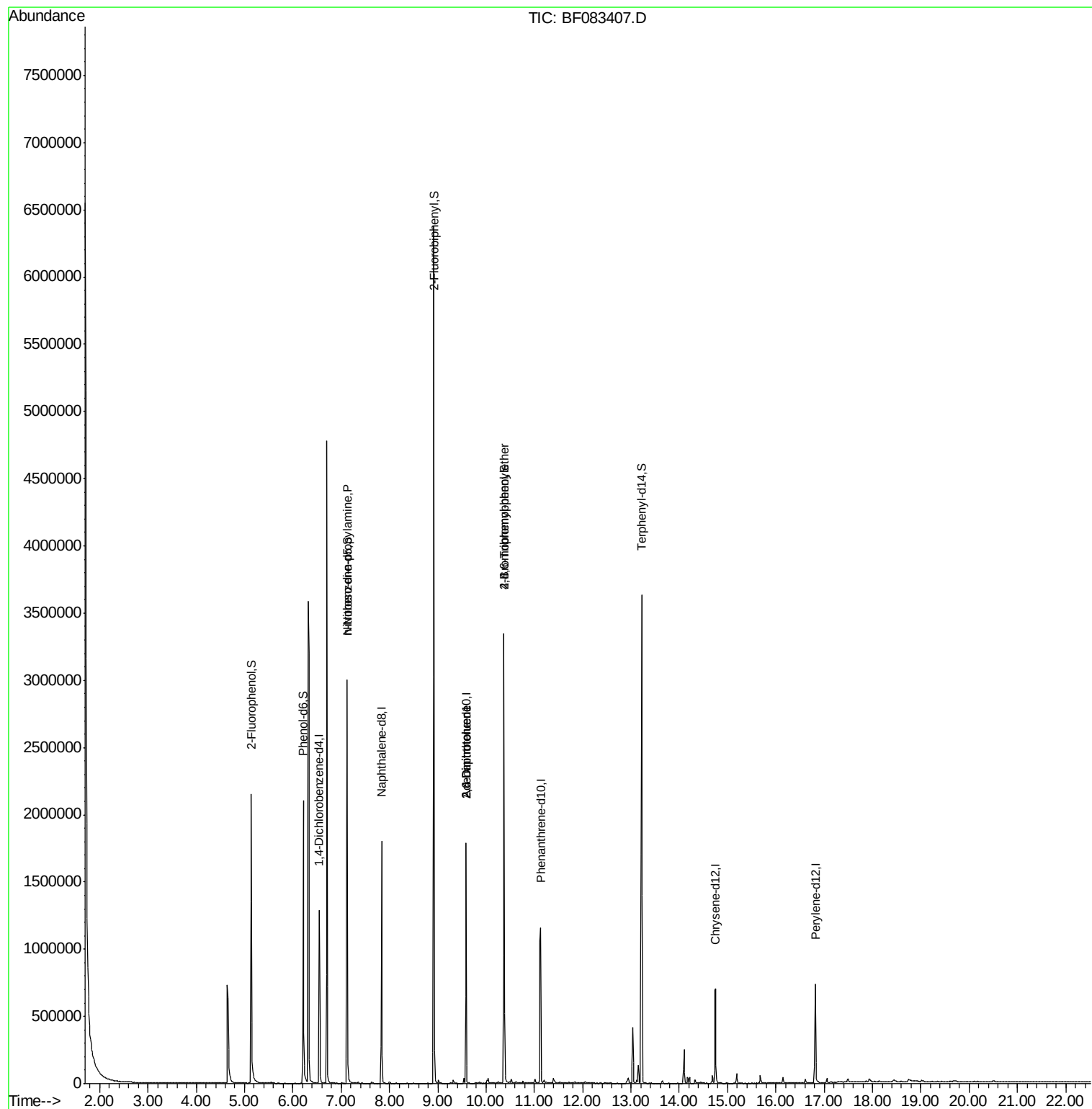
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.54  | 152  | 198414   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.84  | 136  | 758253   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.58  | 164  | 383200   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.13 | 188  | 630933   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 14.75 | 240  | 430334   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12               | 16.82 | 264  | 460219   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.14  | 112  | 833764   | 63.06 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.21  | 99   | 734015   | 40.56 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.13  | 82   | 1441139  | 83.55 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.37 | 330  | 358617   | 93.23 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 8.92  | 172  | 2214527  | 82.35 | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.22 | 244  | 1602797  | 88.82 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.13  | 70   | 194403   | 15.03 | ng    | # 74     |
| 50) 2,6-Dinitrotoluene         | 9.58  | 165  | 46677    | 7.02  | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 9.58  | 165  | 46677    | 5.53  | ng    | # 6      |
| 66) 4-Bromophenyl-phenylether  | 10.37 | 248  | 21646    | 3.14  | ng    | # 1      |

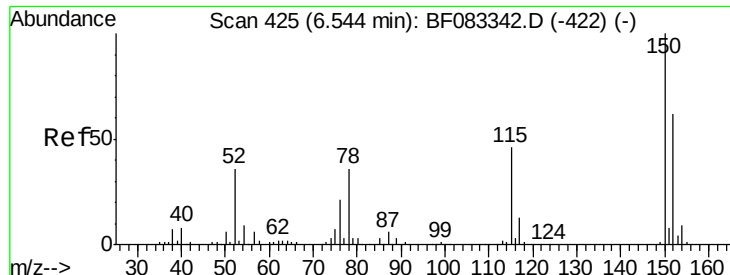
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 02 09:41:29 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
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QLast Update : Tue Dec 01 01:17:16 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.54 min Scan# 425

Delta R.T. -0.00 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

Instrument :

BNA\_F

ClientSampleId :

W-14

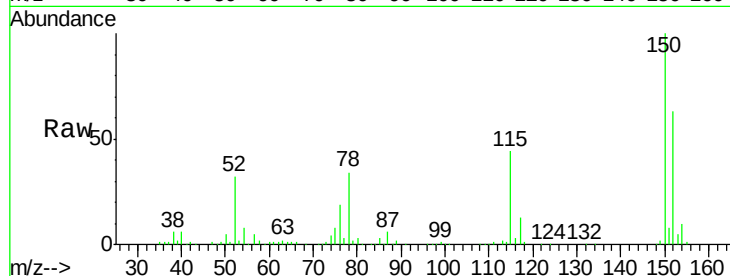
Tot Ion:152 Resp: 198414

Ion Ratio Lower Upper

152 100

150 158.1 129.8 194.8

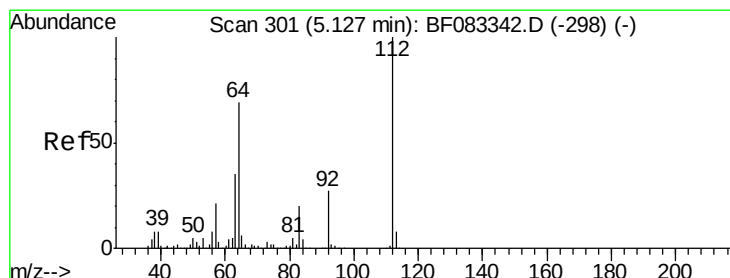
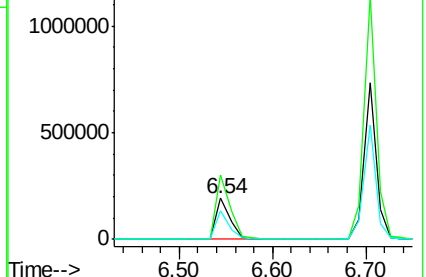
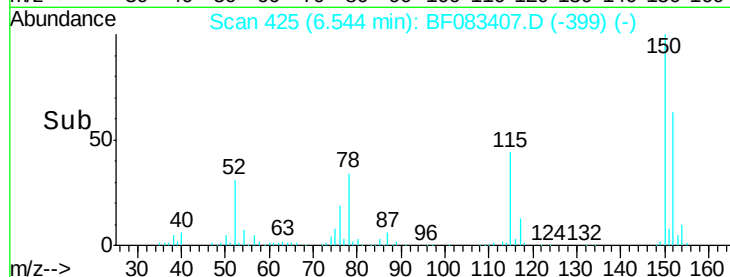
115 69.0 59.2 88.8



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: 63.06 ng

RT: 5.14 min Scan# 302

Delta R.T. 0.01 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

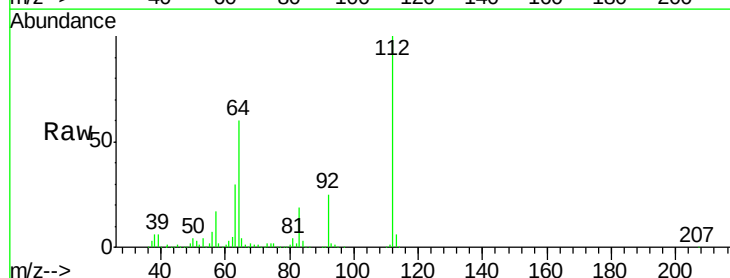
Tgt Ion:112 Resp: 833764

Ion Ratio Lower Upper

112 100

64 59.6 55.6 83.4

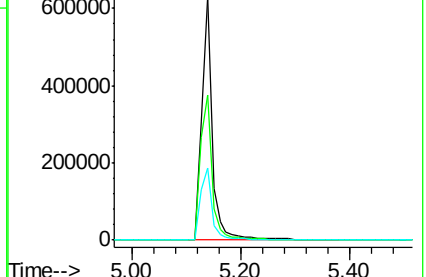
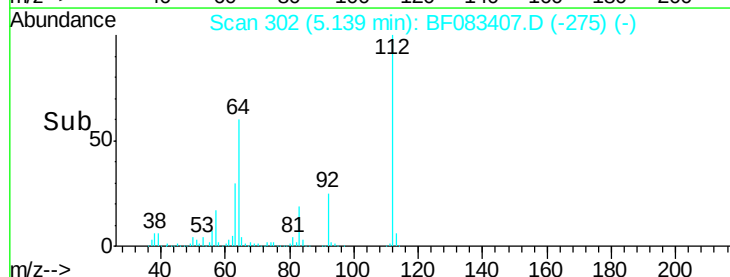
63 29.6 28.2 42.2

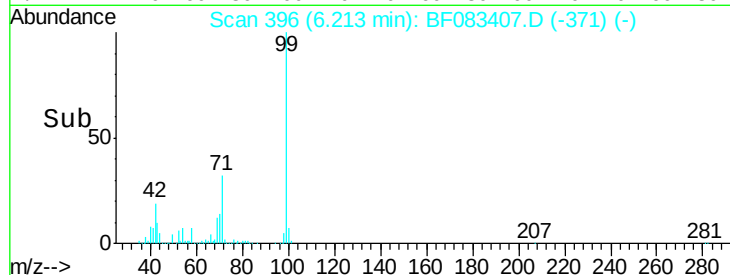
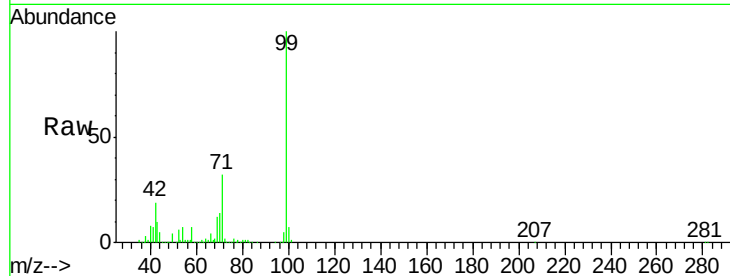
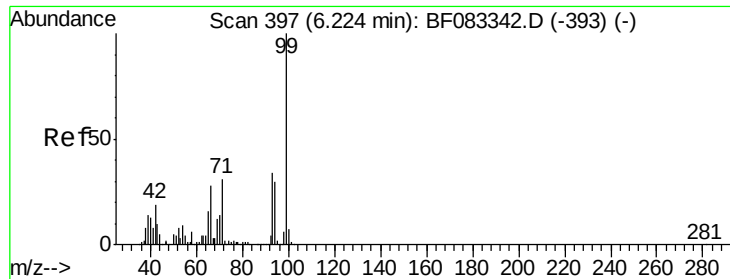


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 40.56 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

Instrument :

BNA\_F

ClientSampleId :

W-14

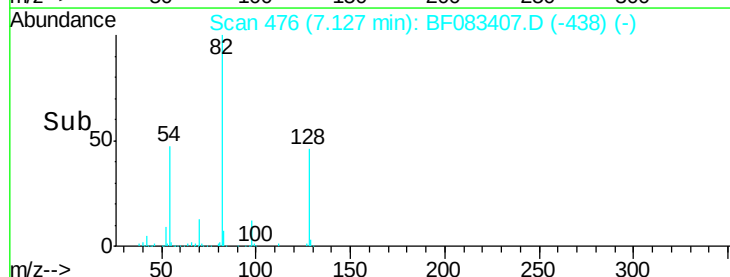
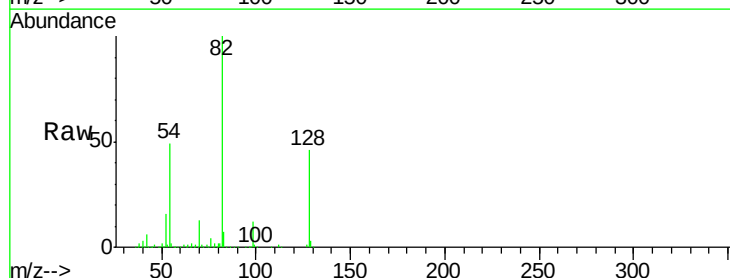
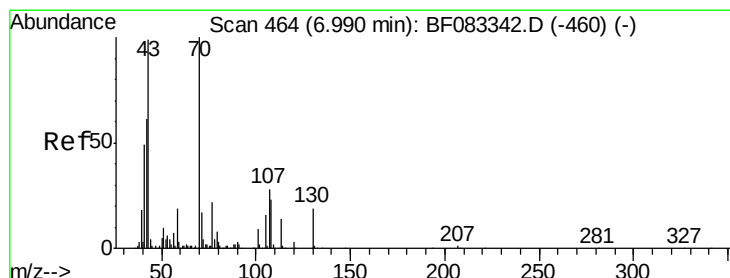
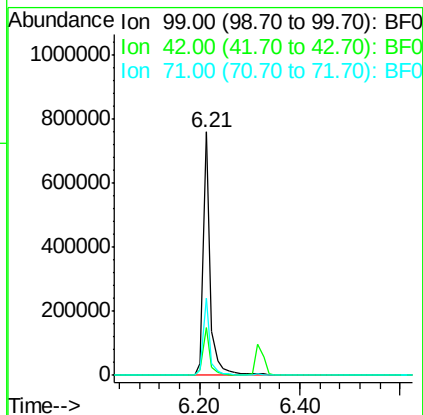
Tot Ion: 99 Resp: 734015

Ion Ratio Lower Upper

99 100

42 19.5 14.9 22.3

71 31.6 24.7 37.1



#19

n-Nitroso-di-n-propylamine

Concen: 15.03 ng

RT: 7.13 min Scan# 476

Delta R.T. 0.14 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

Tgt Ion: 70 Resp: 194403

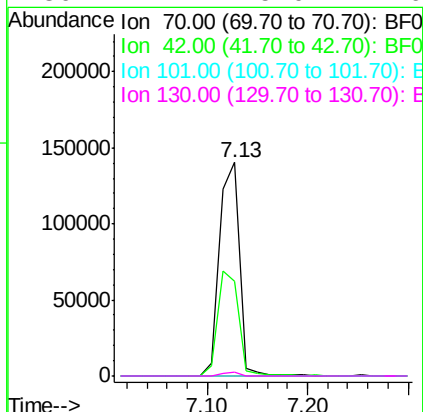
Ion Ratio Lower Upper

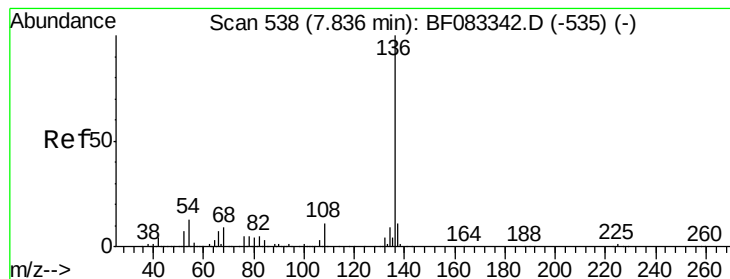
70 100

42 44.1 48.8 73.2#

101 0.0 7.1 10.7#

130 2.1 15.0 22.6#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.84 min Scan# 538

Delta R.T. -0.00 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

Instrument :

BNA\_F

ClientSampleId :

W-14

Tot Ion:136 Resp: 758253

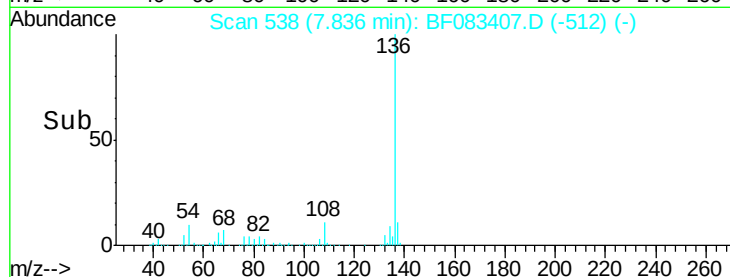
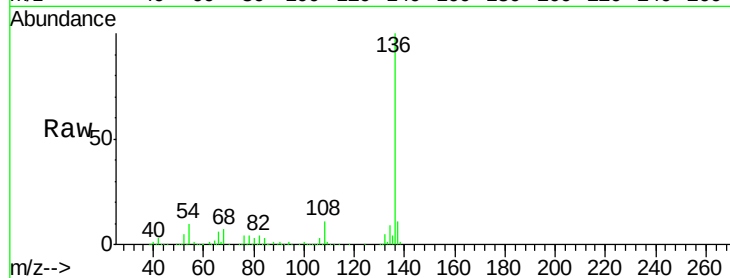
Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.4

54 10.3 10.1 15.1

68 7.0 7.1 10.7#

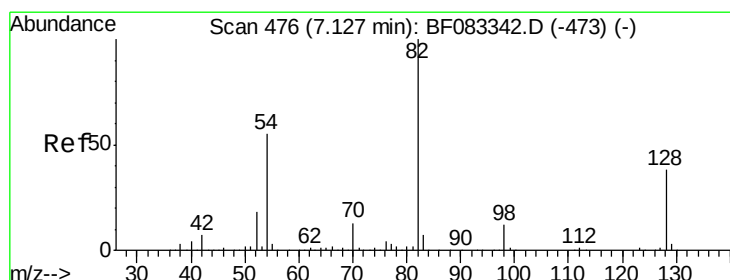
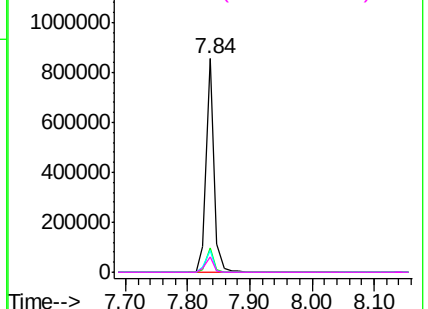


Abundance Ion 136.00 (135.70 to 136.70): E

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: 83.55 ng

RT: 7.13 min Scan# 476

Delta R.T. -0.00 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

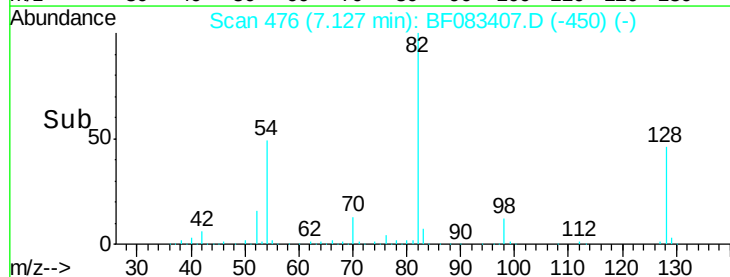
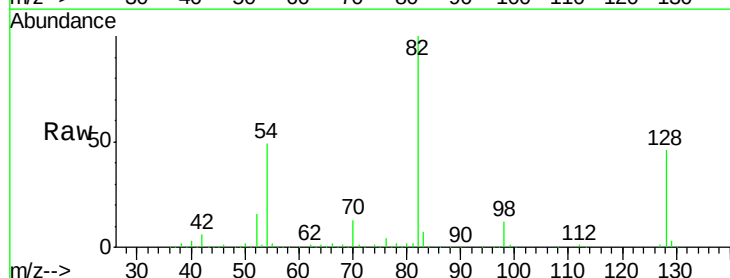
Tgt Ion: 82 Resp: 1441139

Ion Ratio Lower Upper

82 100

128 45.9 30.6 46.0

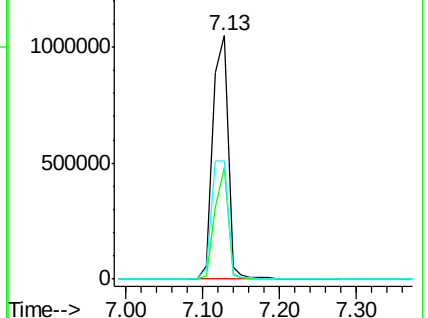
54 48.8 43.8 65.6

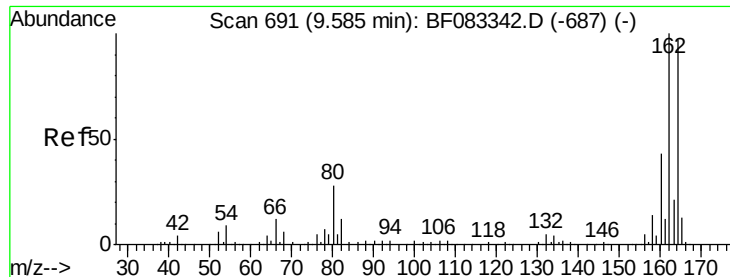


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

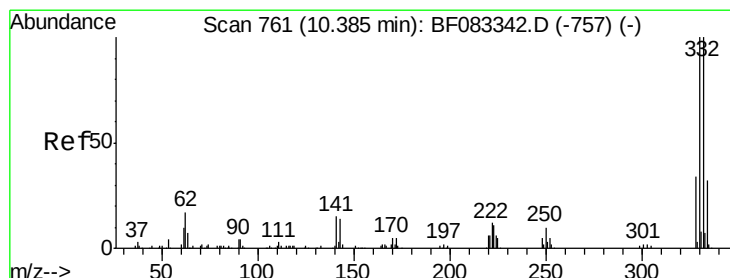
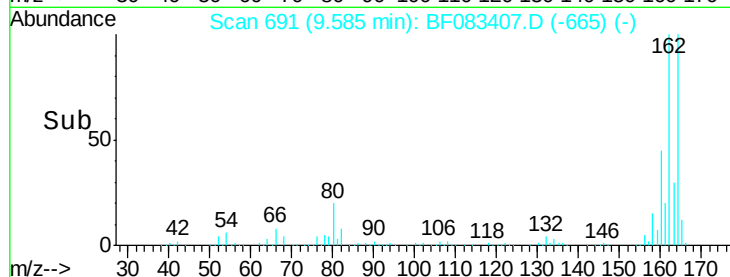
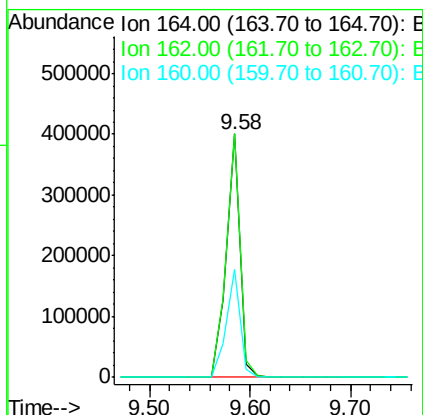
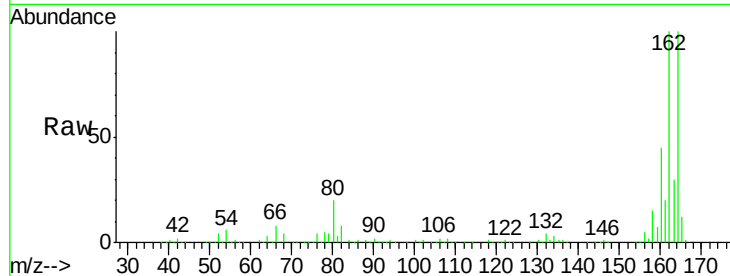




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.58 min Scan# 691  
Delta R.T. -0.00 min  
Lab File: BF083407.D  
Acq: 2 Dec 2015 8:47

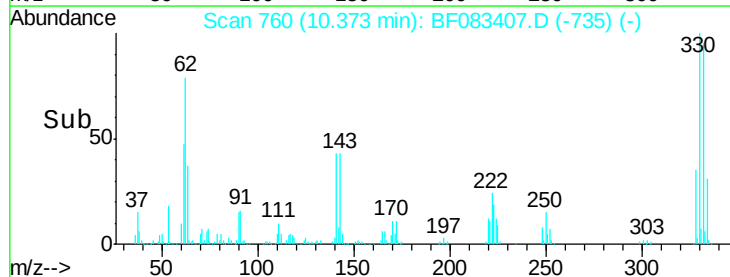
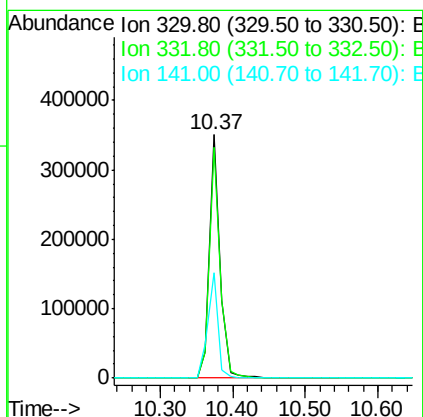
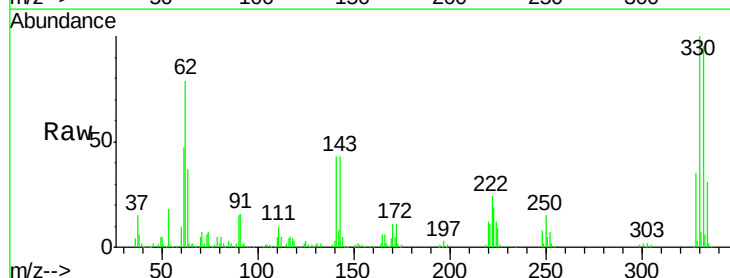
Instrument :  
BNA\_F  
ClientSampleId :  
W-14

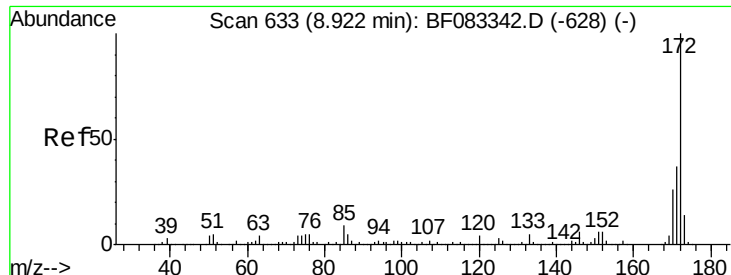
Tot Ion:164 Resp: 383200  
Ion Ratio Lower Upper  
164 100  
162 99.9 82.6 123.8  
160 44.5 35.3 52.9



#41  
2,4,6-Tribromophenol  
Concen: 93.23 ng  
RT: 10.37 min Scan# 760  
Delta R.T. -0.01 min  
Lab File: BF083407.D  
Acq: 2 Dec 2015 8:47

Tgt Ion:330 Resp: 358617  
Ion Ratio Lower Upper  
330 100  
332 96.4 77.8 116.6  
141 41.7 29.4 44.0

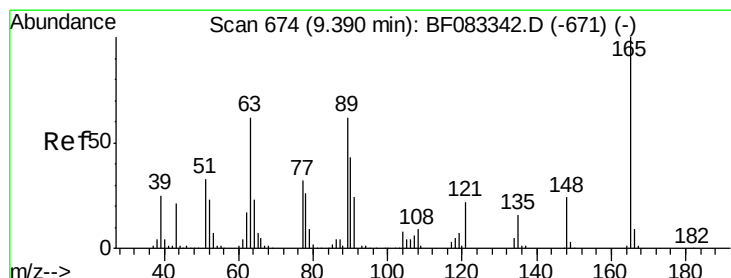
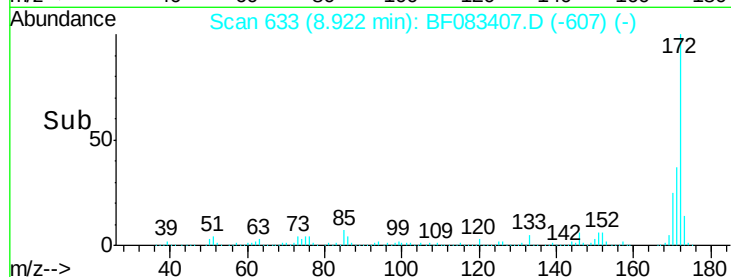
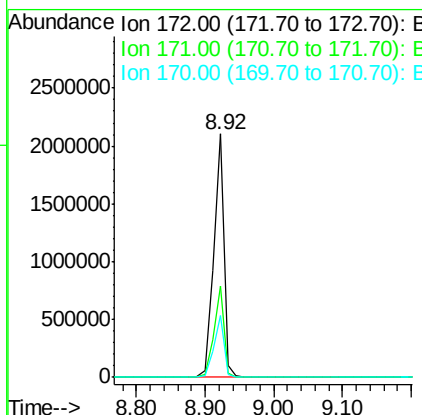
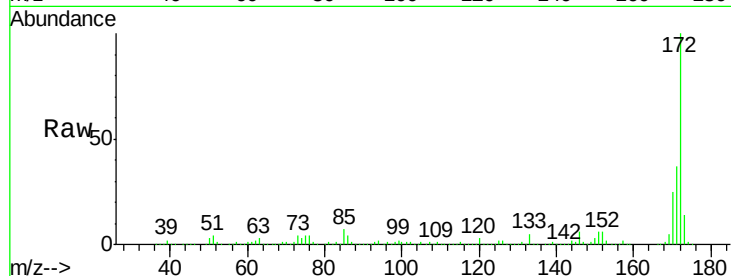




#44  
2-Fluorobiphenyl  
Concen: 82.35 ng  
RT: 8.92 min Scan# 633  
Delta R.T. -0.00 min  
Lab File: BF083407.D  
Acq: 2 Dec 2015 8:47

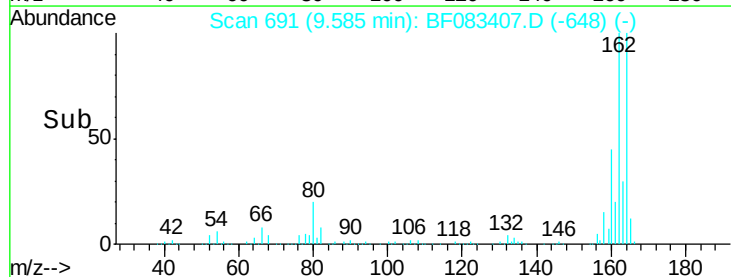
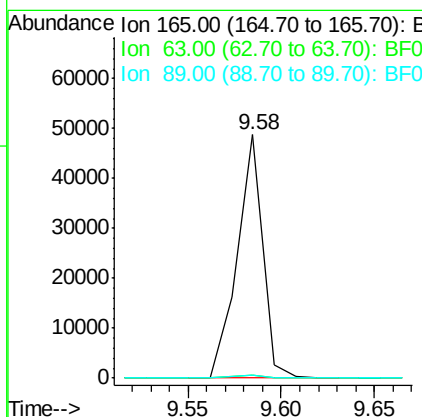
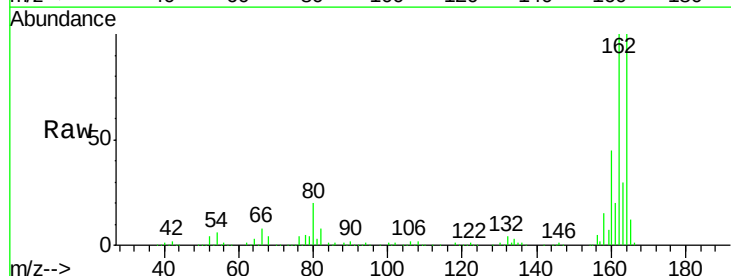
Instrument :  
BNA\_F  
ClientSampled :  
W-14

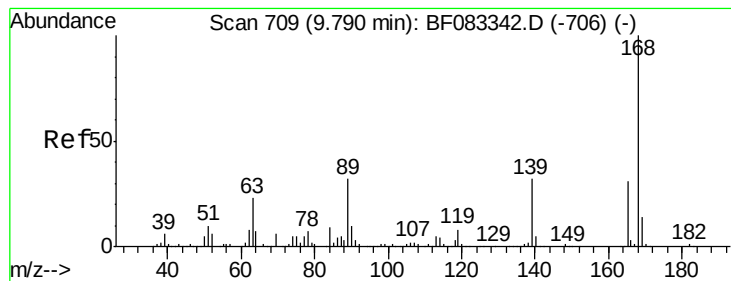
Tot Ion:172 Resp: 2214527  
Ion Ratio Lower Upper  
172 100  
171 37.3 29.4 44.0  
170 25.5 20.4 30.6



#50  
2,6-Dinitrotoluene  
Concen: 7.02 ng  
RT: 9.58 min Scan# 691  
Delta R.T. 0.19 min  
Lab File: BF083407.D  
Acq: 2 Dec 2015 8:47

Tgt Ion:165 Resp: 46677  
Ion Ratio Lower Upper  
165 100  
63 1.3 56.0 84.0#  
89 1.2 49.8 74.8#





#56

2,4-Dinitrotoluene

Concen: 5.53 ng

RT: 9.58 min Scan# 691

Delta R.T. -0.21 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

Instrument :

BNA\_F

ClientSampleId :

W-14

Tot Ion:165 Resp: 46677

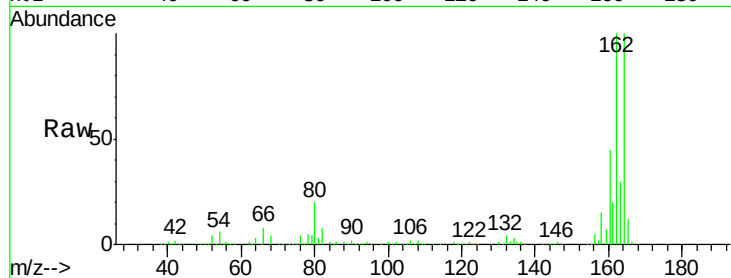
Ion Ratio Lower Upper

165 100

63 1.3 65.4 98.0#

89 1.2 81.2 121.8#

182 0.0 1.8 2.8#

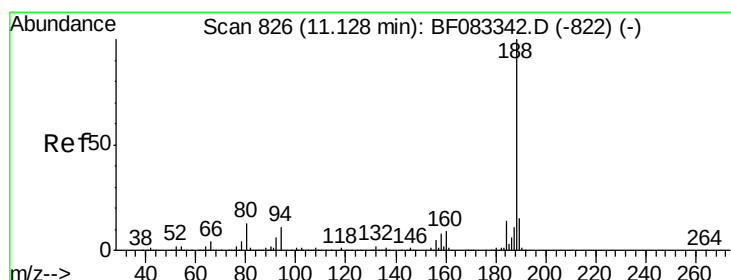
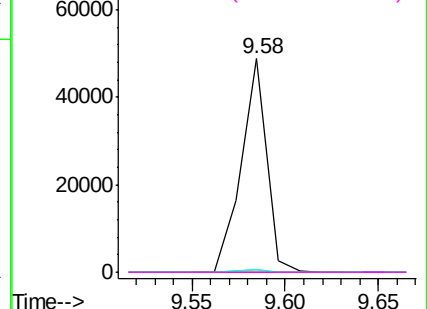
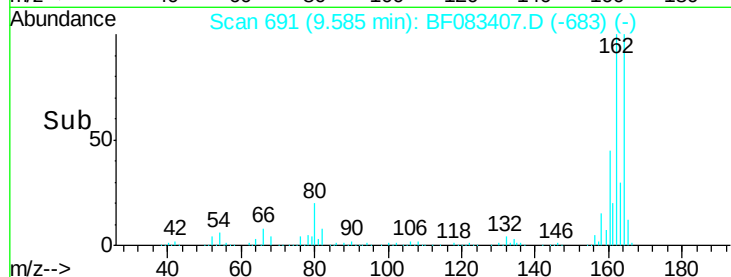


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.13 min Scan# 826

Delta R.T. -0.00 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

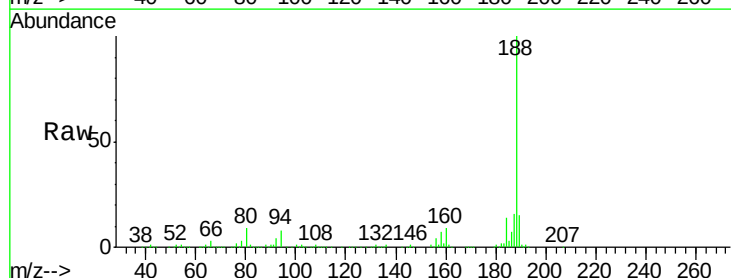
Tgt Ion:188 Resp: 630933

Ion Ratio Lower Upper

188 100

94 8.2 8.7 13.1#

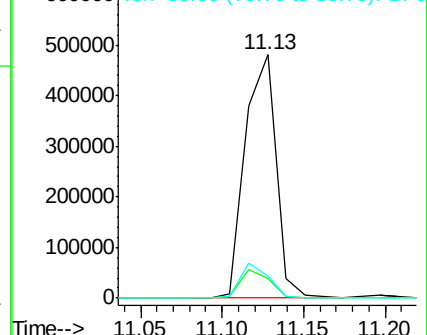
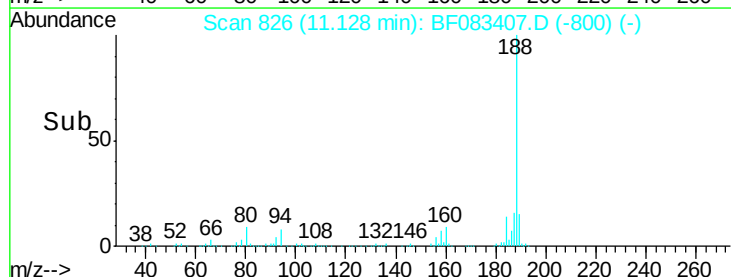
80 9.1 10.3 15.5#



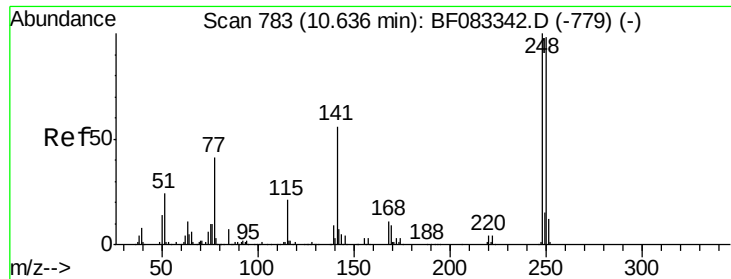
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0







#66

4-Bromophenyl-phenylether

Concen: 3.14 ng

RT: 10.37 min Scan# 760

Delta R.T. -0.26 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

Instrument :

BNA\_F

ClientSampleId :

W-14

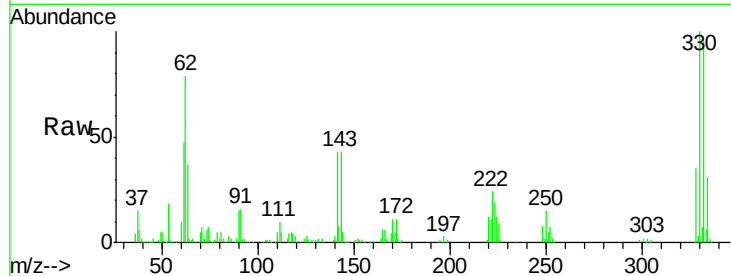
Tot Ion:248 Resp: 21646

Ion Ratio Lower Upper

248 100

250 204.8 78.6 118.0#

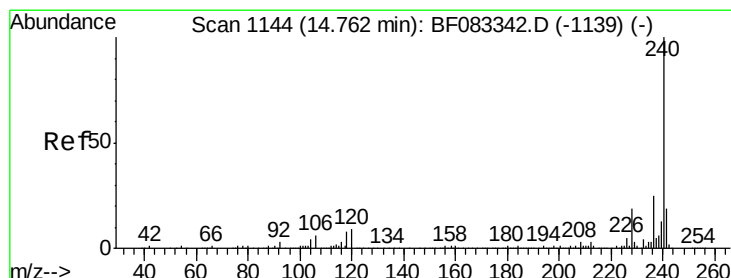
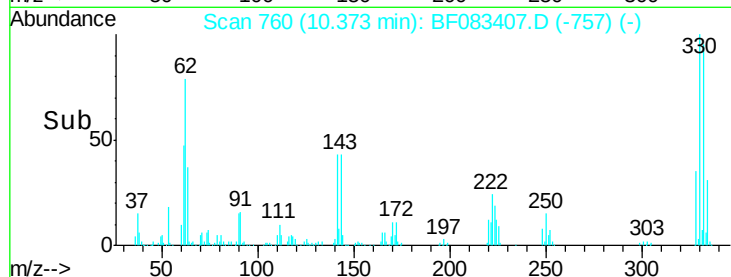
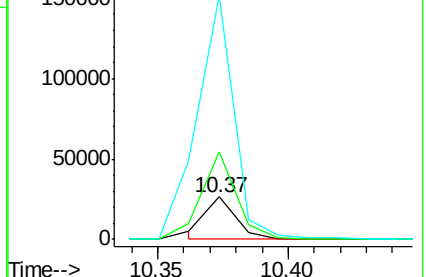
141 574.1 44.4 66.6#



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: 14.75 min Scan# 1143

Delta R.T. -0.01 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

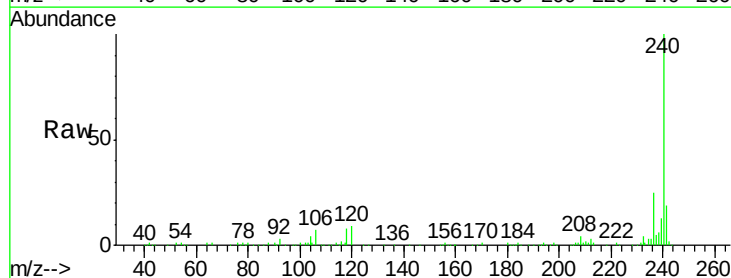
Tgt Ion:240 Resp: 430334

Ion Ratio Lower Upper

240 100

120 8.6 6.9 10.3

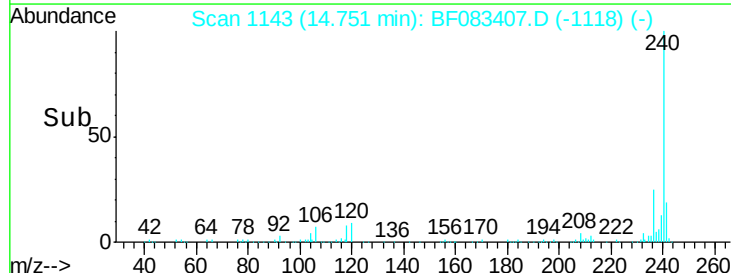
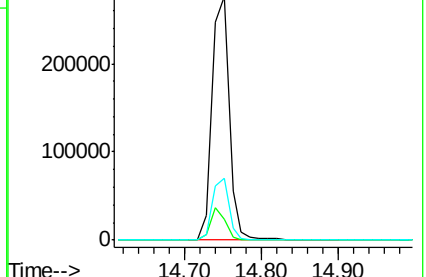
236 25.4 19.8 29.6

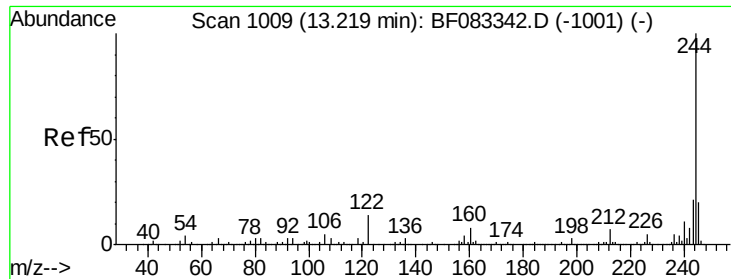


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 88.82 ng

RT: 13.22 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

Instrument :

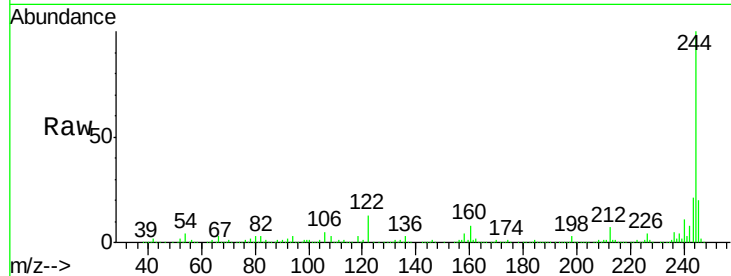
BNA\_F

ClientSampleId :

W-14

Tot Ion:244 Resp: 1602797

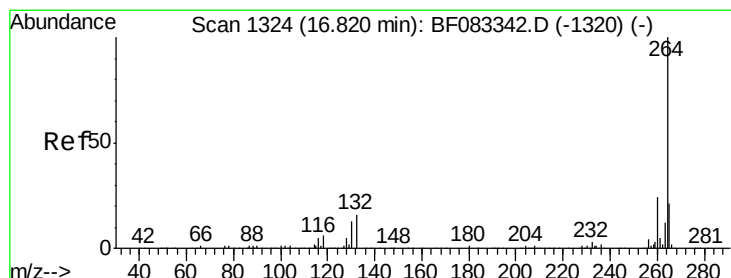
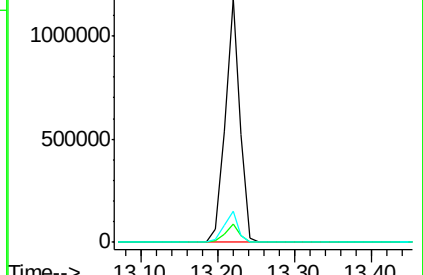
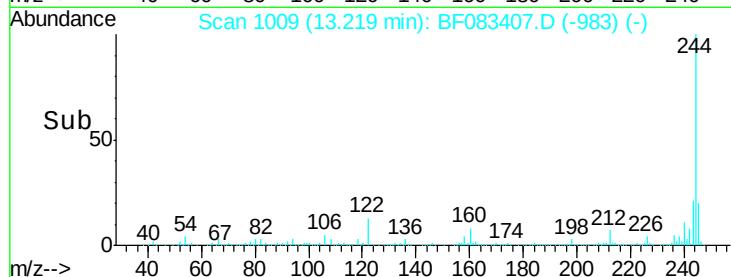
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.3   | 5.8   | 8.8   |
| 122 | 12.9  | 11.0  | 16.4  |



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: 16.82 min Scan# 1324

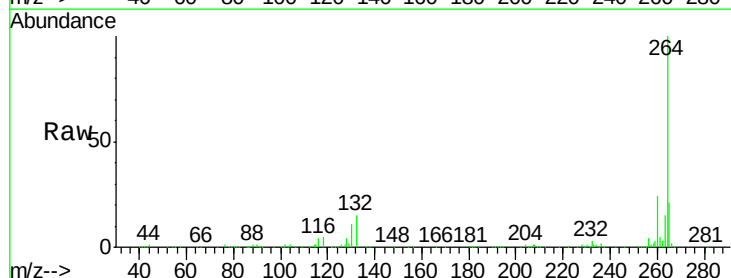
Delta R.T. -0.00 min

Lab File: BF083407.D

Acq: 2 Dec 2015 8:47

Tgt Ion:264 Resp: 460219

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.3  | 19.0  | 28.4  |
| 265 | 21.3  | 16.8  | 25.2  |



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

