

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112315\  
 Data File : BF083199.D  
 Acq On : 23 Nov 2015 12:10  
 Operator : UM/IZ  
 Sample : G4437-10  
 Misc :  
 ALS Vial : 83 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-10

Quant Time: Nov 24 04:28:00 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

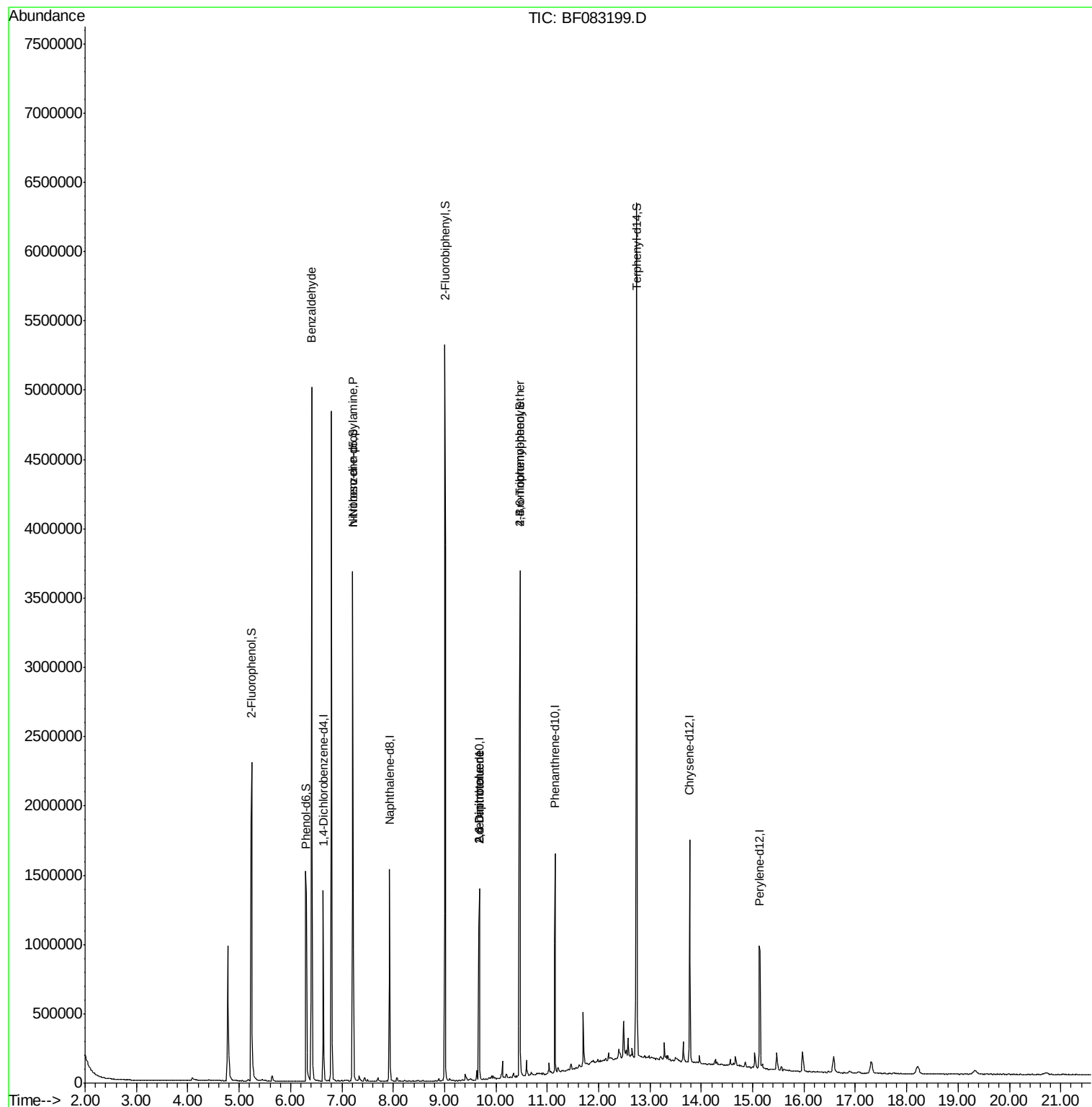
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.64  | 152  | 203473   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.93  | 136  | 787508   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.68  | 164  | 380222   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.15 | 188  | 712019   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.77 | 240  | 618326   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 15.14 | 264  | 501768   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.24  | 112  | 923873   | 68.65  | ng    | -0.03    |
| 7) Phenol-d6                   | 6.31  | 99   | 797470   | 45.80  | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.21  | 82   | 1487461  | 86.31  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.47 | 330  | 537902   | 138.28 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.00  | 172  | 2425340  | 88.95  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.74 | 244  | 2246057  | 85.54  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.41  | 77   | 37233    | 2.42   | ng    | # 70     |
| 19) n-Nitroso-di-n-propylamine | 7.21  | 70   | 198801   | 16.40  | ng    | # 78     |
| 50) 2,6-Dinitrotoluene         | 9.68  | 165  | 48780    | 7.43   | ng    | # 14     |
| 56) 2,4-Dinitrotoluene         | 9.68  | 165  | 48780    | 5.86   | ng    | # 10     |
| 66) 4-Bromophenyl-phenylether  | 10.47 | 248  | 37855    | 4.79   | ng    | # 1      |

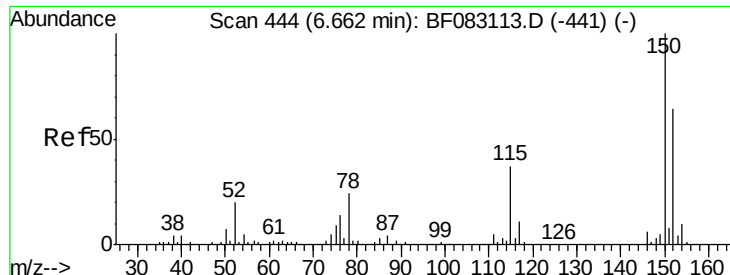
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 24 04:28:00 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: 6.64 min Scan# 407

Delta R.T. -0.02 min

Lab File: BF083199.D

Acq: 23 Nov 2015 12:10

Instrument :

BNA\_F

ClientSampleId :

MW-10

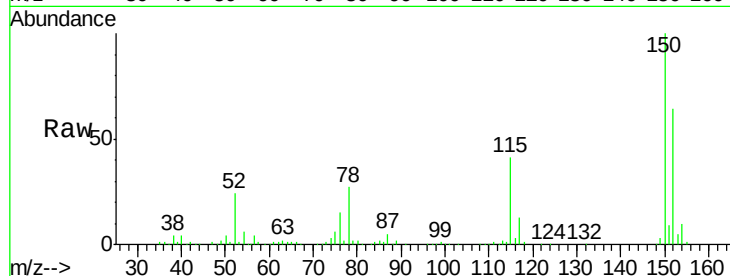
Tgt Ion:152 Resp: 203473

Ion Ratio Lower Upper

152 100

150 155.2 125.8 188.8

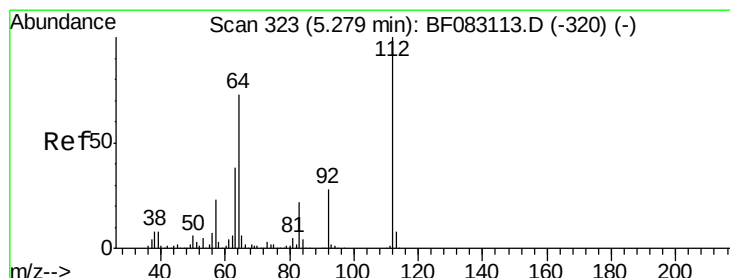
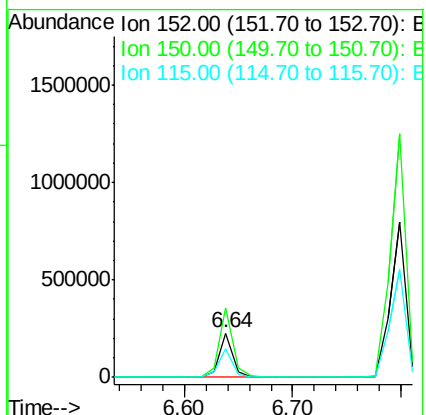
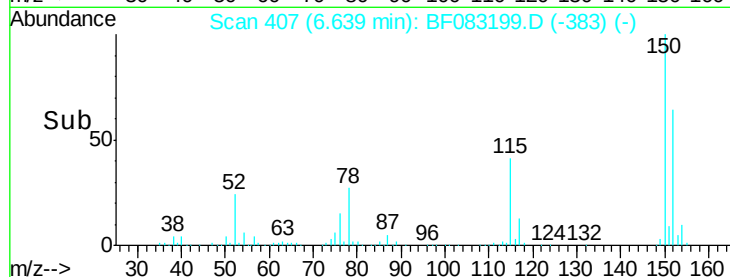
115 63.4 46.9 70.3



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: 68.65 ng

RT: 5.24 min Scan# 285

Delta R.T. -0.03 min

Lab File: BF083199.D

Acq: 23 Nov 2015 12:10

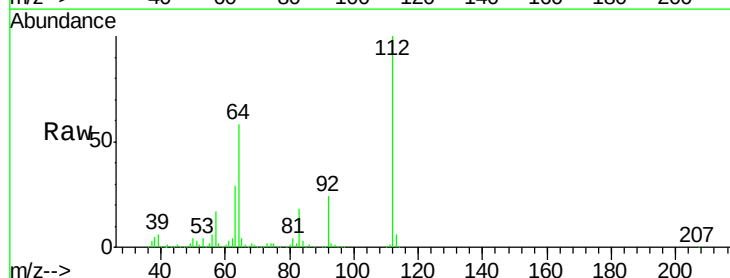
Tgt Ion:112 Resp: 923873

Ion Ratio Lower Upper

112 100

64 58.2 58.4 87.6#

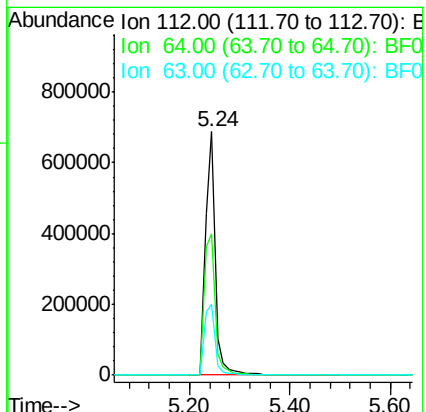
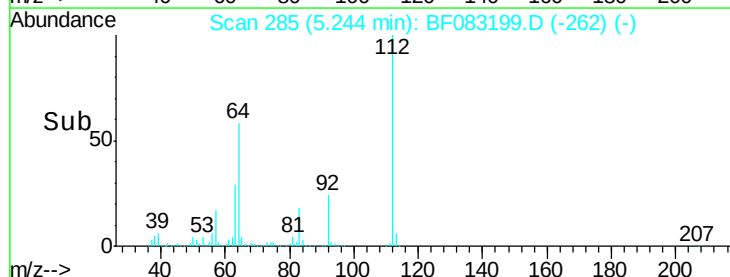
63 28.9 30.0 45.0#

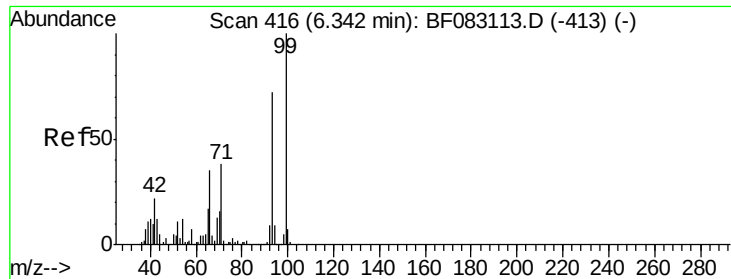


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 45.80 ng

RT: 6.31 min Scan# 378

Delta R.T. -0.03 min

Lab File: BF083199.D

Acq: 23 Nov 2015 12:10

Instrument :

BNA\_F

ClientSampleId :

MW-10

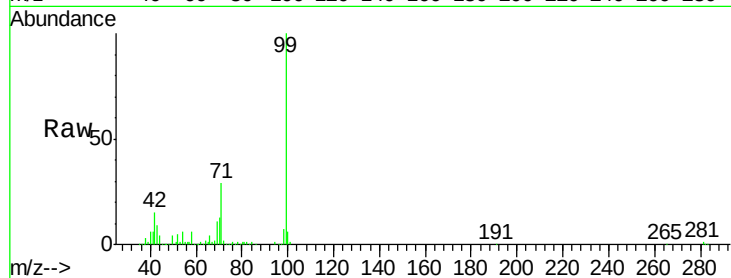
Tgt Ion: 99 Resp: 797470

Ion Ratio Lower Upper

99 100

42 15.4 17.7 26.5#

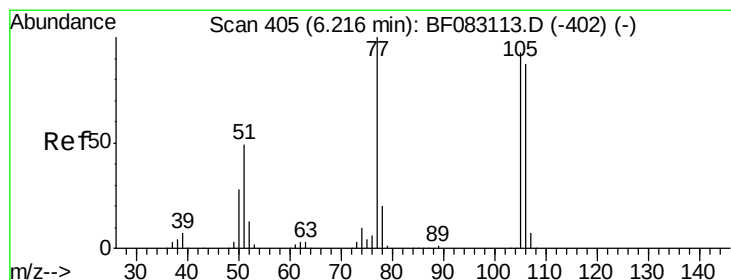
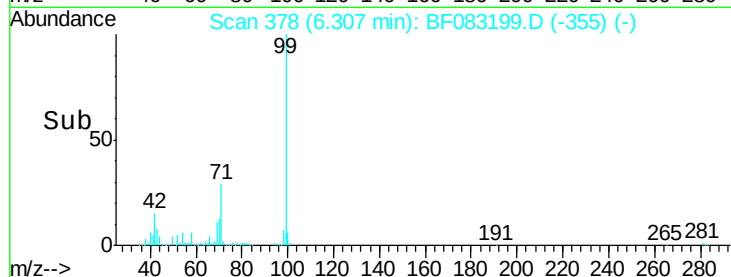
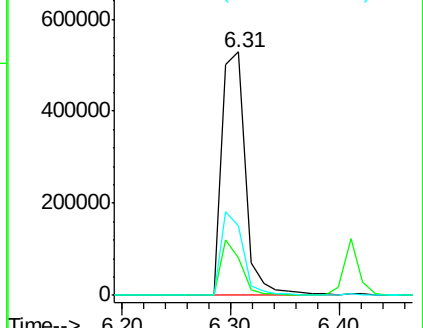
71 28.5 30.2 45.4#



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



#9

Benzaldehyde

Concen: 2.42 ng

RT: 6.41 min Scan# 387

Delta R.T. 0.20 min

Lab File: BF083199.D

Acq: 23 Nov 2015 12:10

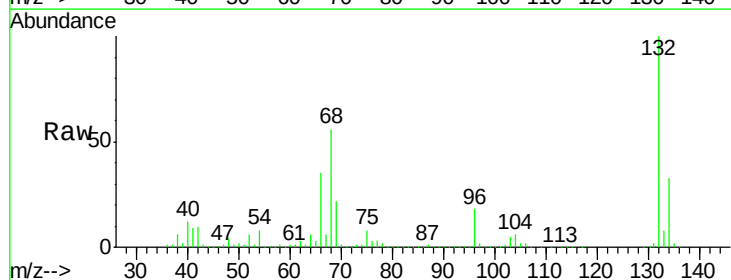
Tgt Ion: 77 Resp: 37233

Ion Ratio Lower Upper

77 100

105 65.9 73.4 113.4#

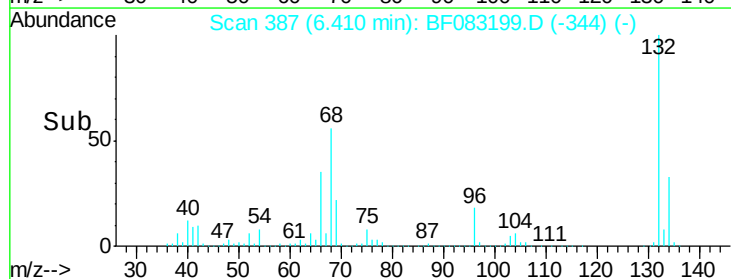
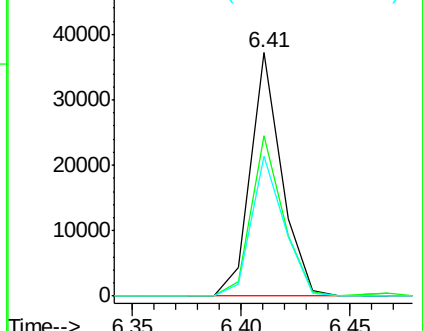
106 57.6 67.5 107.5#

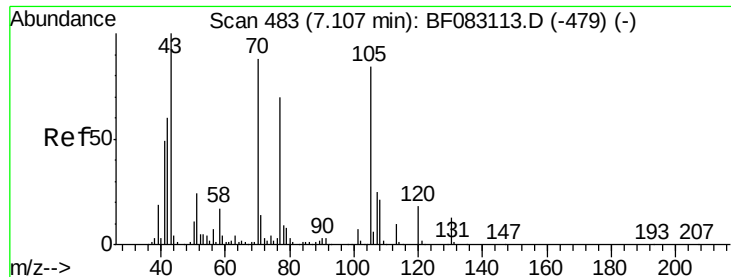


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

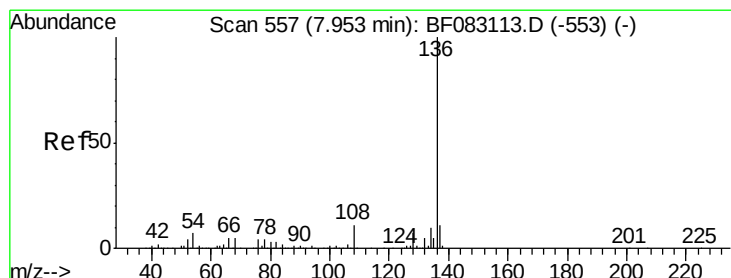
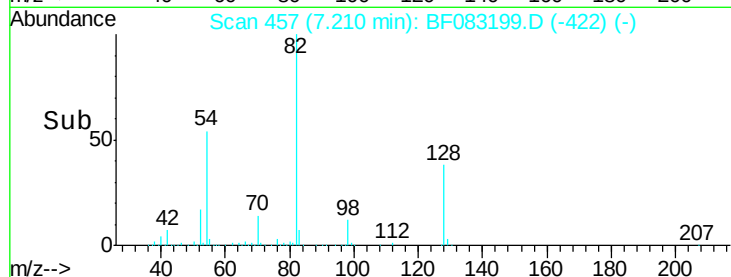
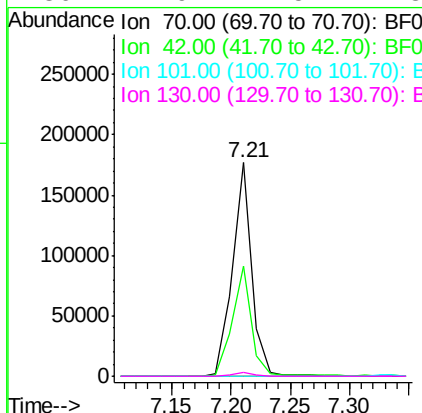
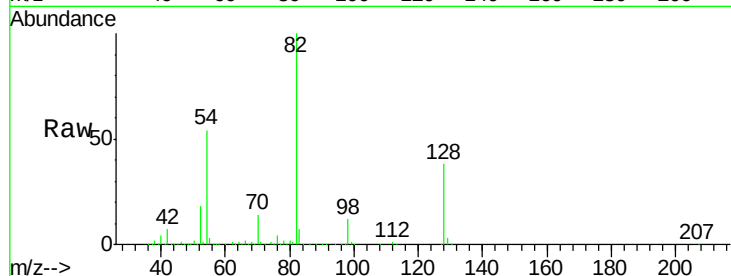




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.40 ng  
RT: 7.21 min Scan# 457  
Delta R.T. 0.10 min  
Lab File: BF083199.D  
Acq: 23 Nov 2015 12:10

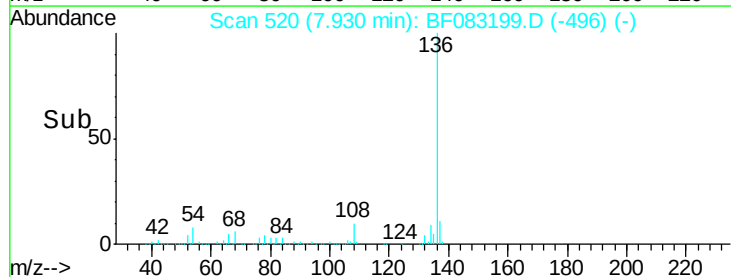
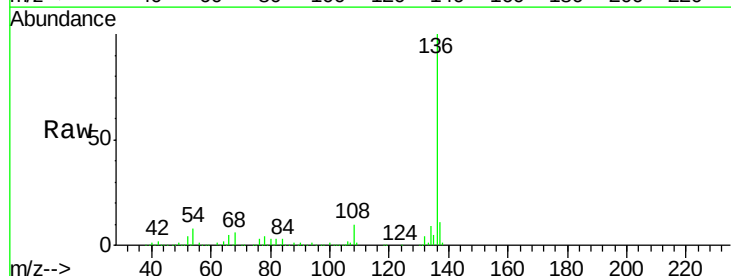
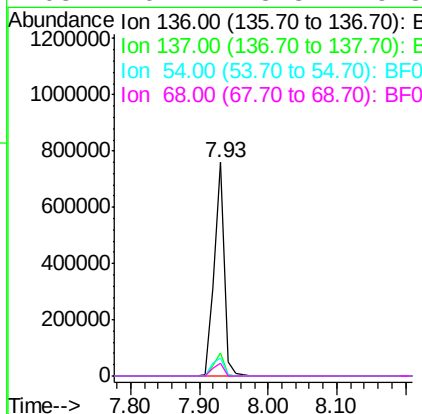
Instrument :  
BNA\_F  
ClientSampled :  
MW-10

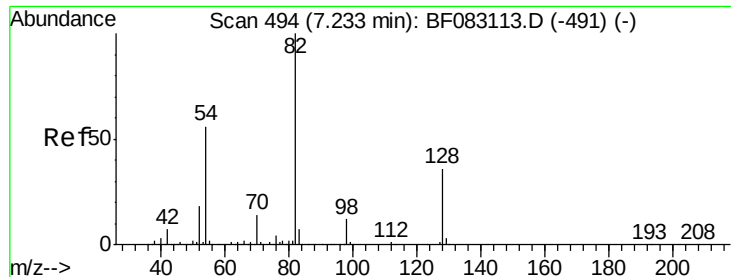
Tgt Ion: 70 Resp: 198801  
Ion Ratio Lower Upper  
70 100  
42 51.8 54.5 81.7#  
101 0.0 6.6 9.8#  
130 1.9 11.5 17.3#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.93 min Scan# 520  
Delta R.T. -0.02 min  
Lab File: BF083199.D  
Acq: 23 Nov 2015 12:10

Tgt Ion: 136 Resp: 787508  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.7 13.1  
54 8.3 5.8 8.6  
68 6.2 3.8 5.8#

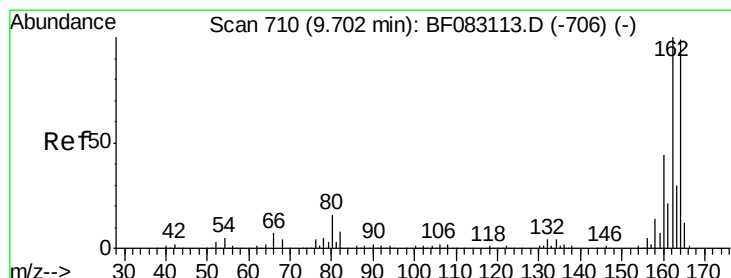
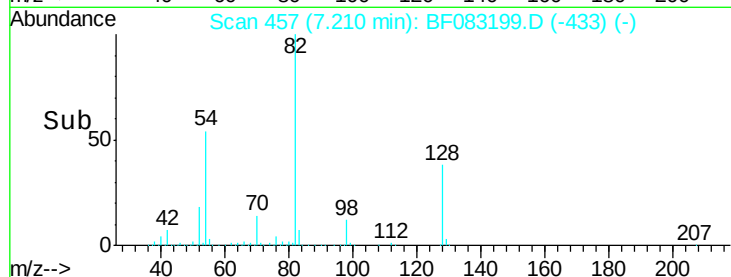
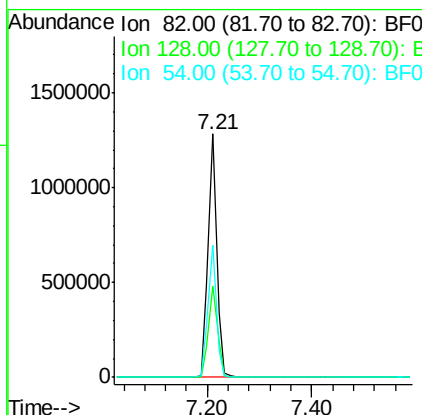
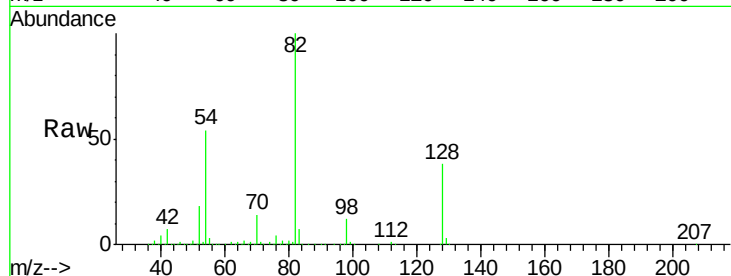




#23  
 Nitrobenzene-d5  
 Concen: 86.31 ng  
 RT: 7.21 min Scan# 457  
 Delta R.T. -0.02 min  
 Lab File: BF083199.D  
 Acq: 23 Nov 2015 12:10

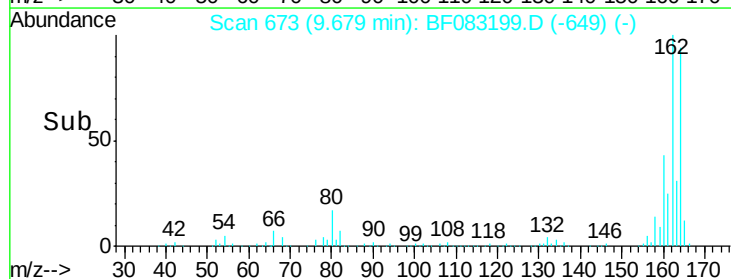
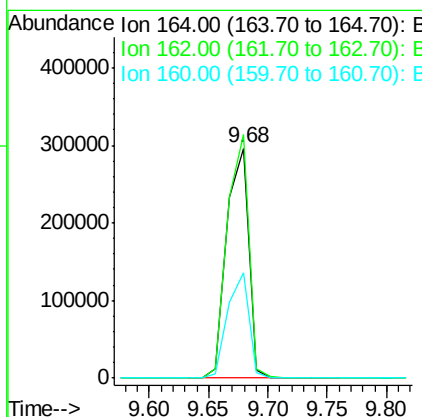
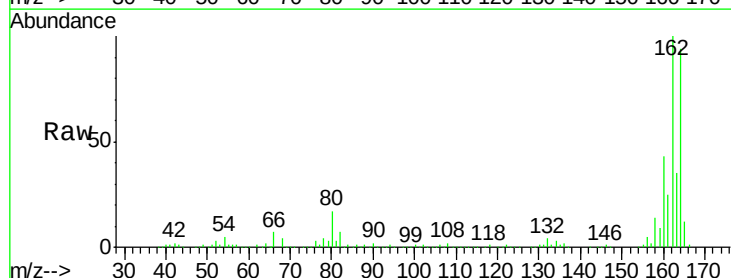
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-10

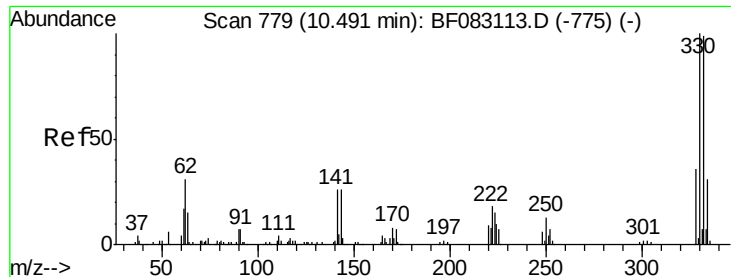
Tgt Ion: 82 Resp: 1487461  
 Ion Ratio Lower Upper  
 82 100  
 128 37.6 28.5 42.7  
 54 54.5 44.6 67.0



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.68 min Scan# 673  
 Delta R.T. -0.02 min  
 Lab File: BF083199.D  
 Acq: 23 Nov 2015 12:10

Tgt Ion: 164 Resp: 380222  
 Ion Ratio Lower Upper  
 164 100  
 162 105.8 81.2 121.8  
 160 45.6 35.6 53.4

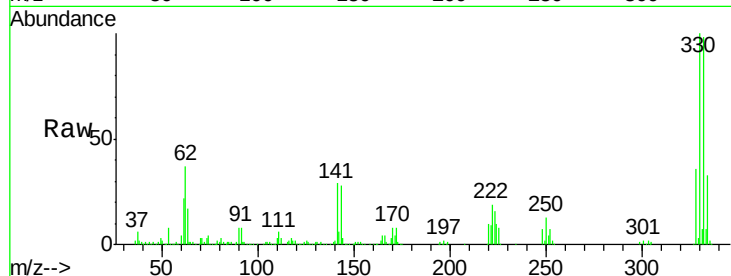




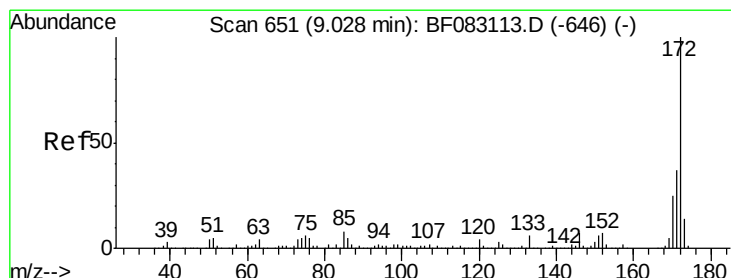
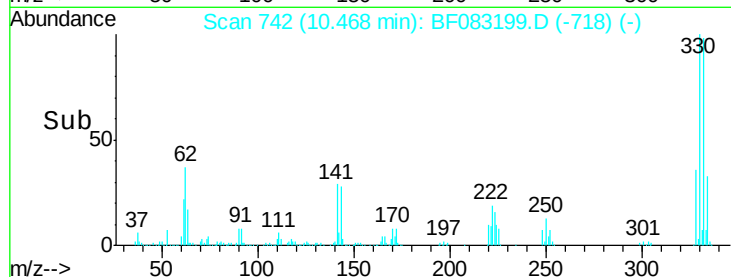
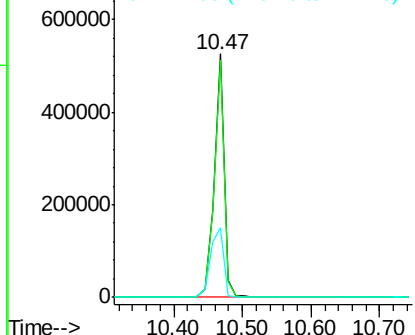
#41  
 2,4,6-Tribromophenol  
 Concen: 138.28 ng  
 RT: 10.47 min Scan# 742  
 Delta R.T. -0.02 min  
 Lab File: BF083199.D  
 Acq: 23 Nov 2015 12:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-10

Tgt Ion:330 Resp: 537902  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 77.7 116.5  
 141 38.0 29.7 44.5

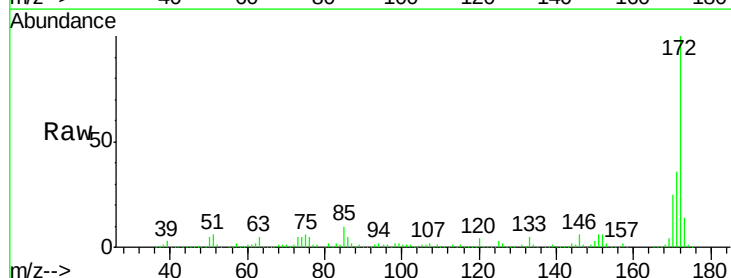


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

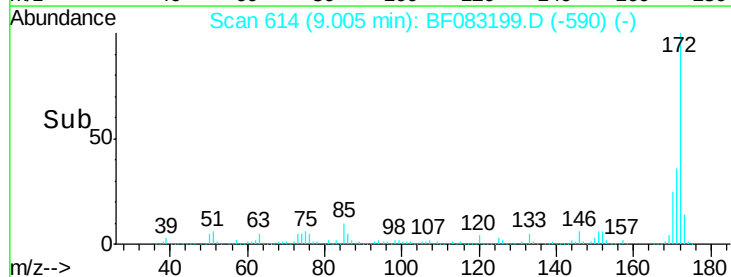
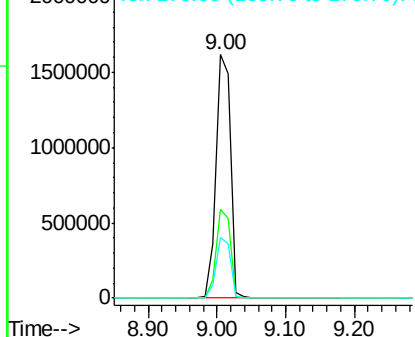


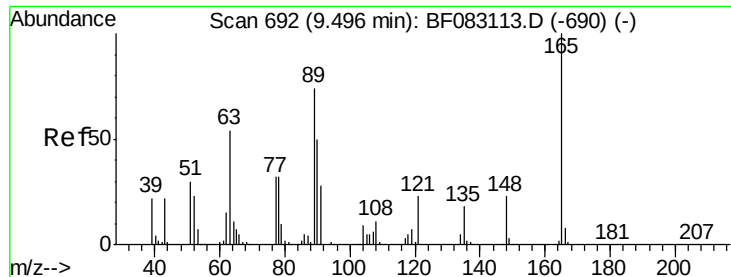
#44  
 2-Fluorobiphenyl  
 Concen: 88.95 ng  
 RT: 9.00 min Scan# 614  
 Delta R.T. -0.02 min  
 Lab File: BF083199.D  
 Acq: 23 Nov 2015 12:10

Tgt Ion:172 Resp: 2425340  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.5 44.3  
 170 24.7 19.9 29.9



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: 7.43 ng

RT: 9.68 min Scan# 673

Delta R.T. 0.18 min

Lab File: BF083199.D

Acq: 23 Nov 2015 12:10

Instrument :

BNA\_F

ClientSampleId :

MW-10

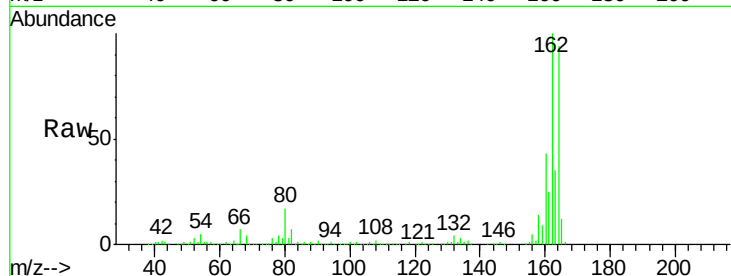
Tgt Ion:165 Resp: 48780

Ion Ratio Lower Upper

165 100

63 2.2 62.5 93.7#

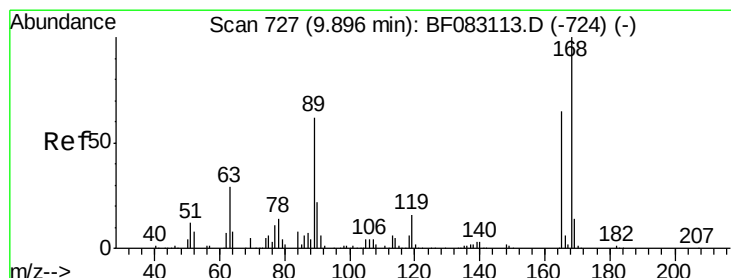
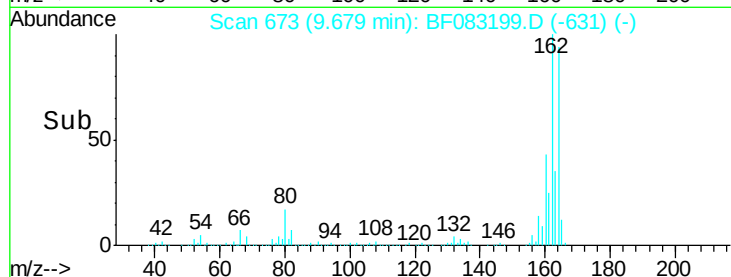
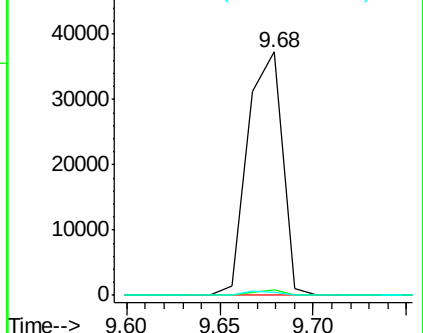
89 1.4 59.1 88.7#



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: 5.86 ng

RT: 9.68 min Scan# 673

Delta R.T. -0.22 min

Lab File: BF083199.D

Acq: 23 Nov 2015 12:10

Tgt Ion:165 Resp: 48780

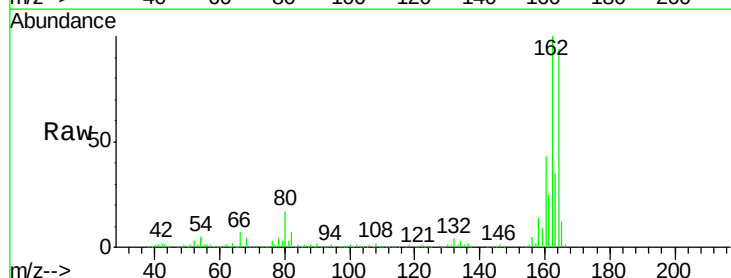
Ion Ratio Lower Upper

165 100

63 2.2 54.5 81.7#

89 1.4 77.3 115.9#

182 0.0 1.8 2.6#

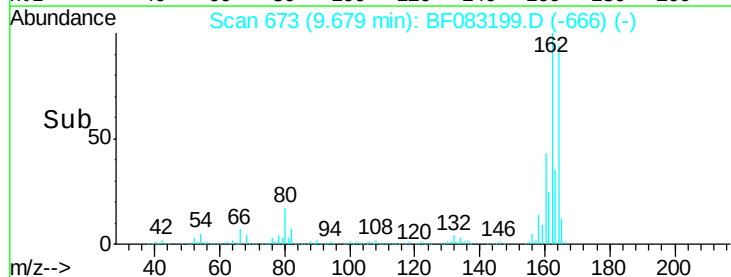
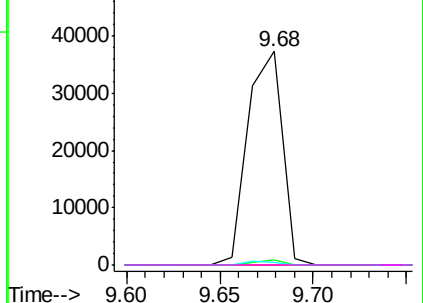


Abundance Ion 165.00 (164.70 to 165.70): E

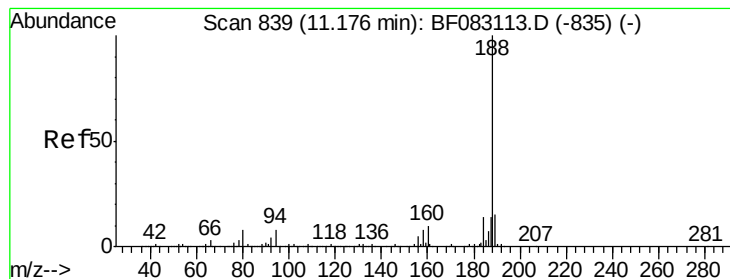
Ion 63.00 (62.70 to 63.70): BF0

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: 11.15 min Scan# 802

Delta R.T. -0.02 min

Lab File: BF083199.D

Acq: 23 Nov 2015 12:10

Instrument :

BNA\_F

ClientSampleId :

MW-10

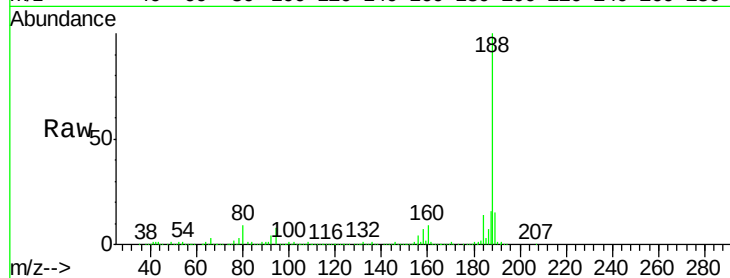
Tgt Ion:188 Resp: 712019

Ion Ratio Lower Upper

188 100

94 7.9 6.0 9.0

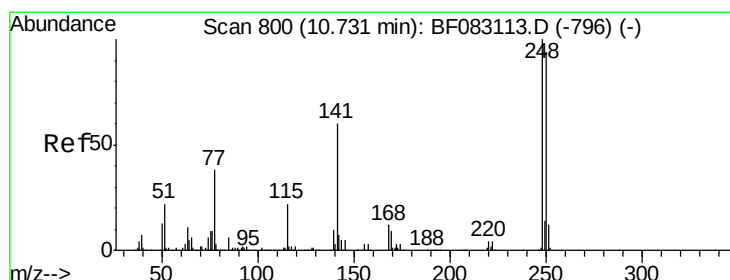
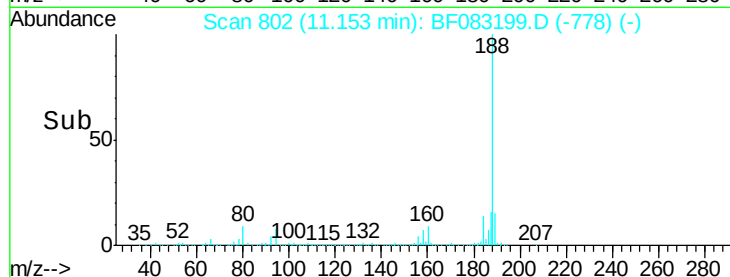
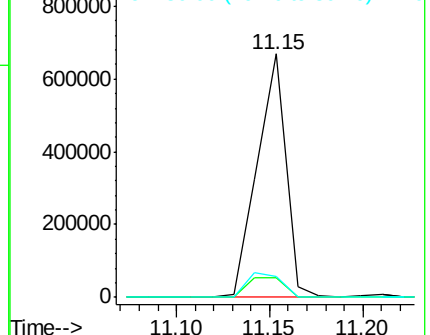
80 8.7 6.7 10.1



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: 4.79 ng

RT: 10.47 min Scan# 742

Delta R.T. -0.26 min

Lab File: BF083199.D

Acq: 23 Nov 2015 12:10

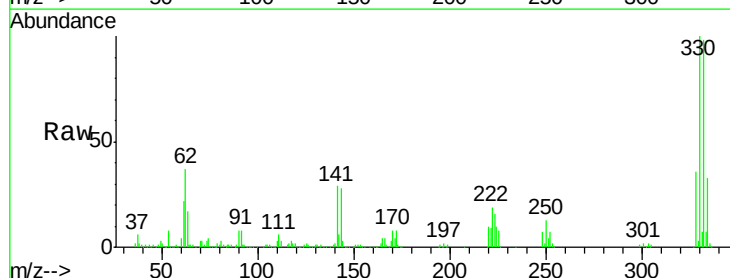
Tgt Ion:248 Resp: 37855

Ion Ratio Lower Upper

248 100

250 197.9 75.4 113.2#

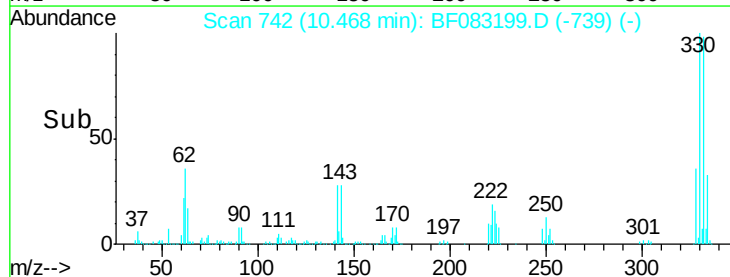
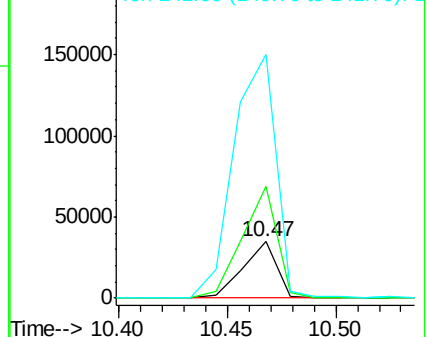
141 429.6 48.1 72.1#

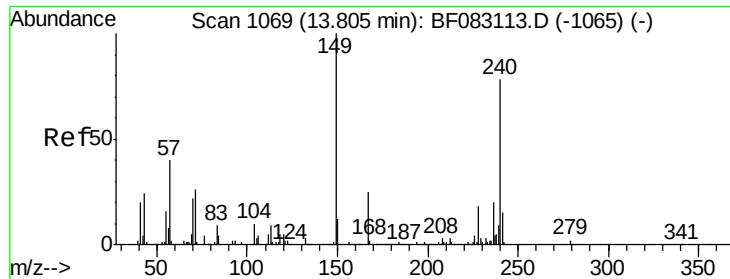


Abundance Ion 248.00 (247.70 to 248.70): E

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: 13.77 min Scan# 1031

Delta R.T. -0.03 min

Lab File: BF083199.D

Acq: 23 Nov 2015 12:10

Instrument :

BNA\_F

ClientSampleId :

MW-10

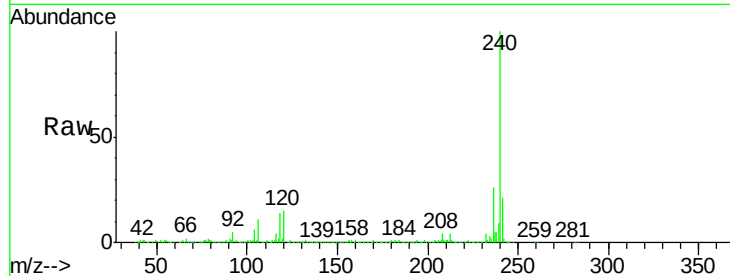
Tgt Ion:240 Resp: 618326

Ion Ratio Lower Upper

240 100

120 14.8 5.4 8.2#

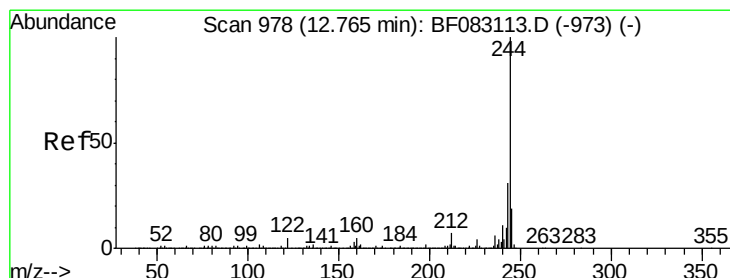
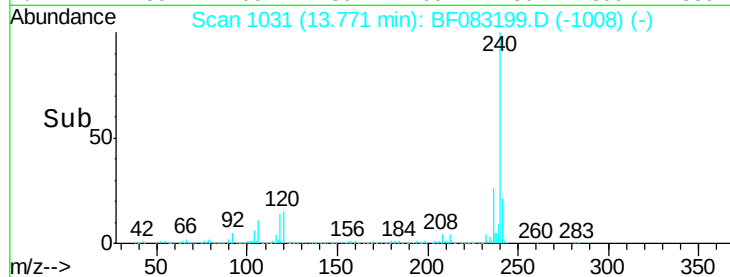
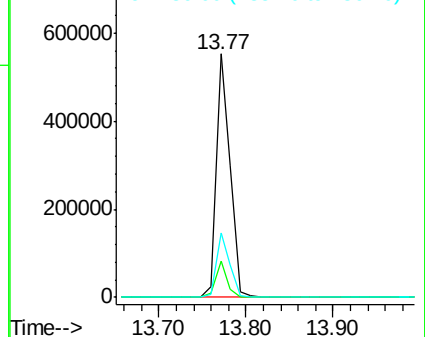
236 26.3 20.6 31.0



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: 85.54 ng

RT: 12.74 min Scan# 941

Delta R.T. -0.02 min

Lab File: BF083199.D

Acq: 23 Nov 2015 12:10

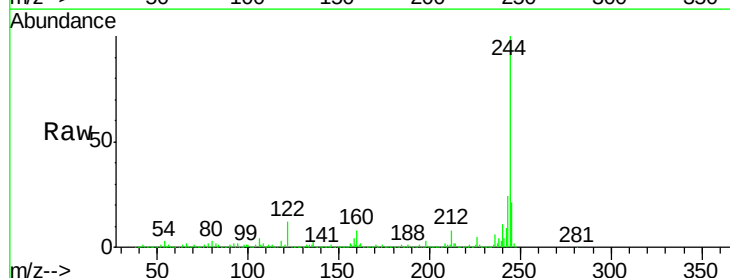
Tgt Ion:244 Resp: 2246057

Ion Ratio Lower Upper

244 100

212 8.0 5.4 8.2

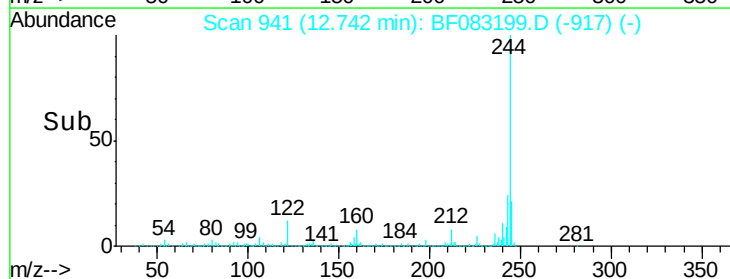
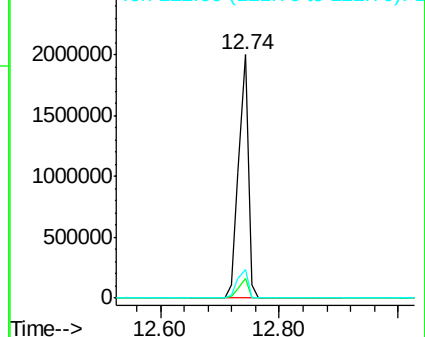
122 11.7 4.3 6.5#

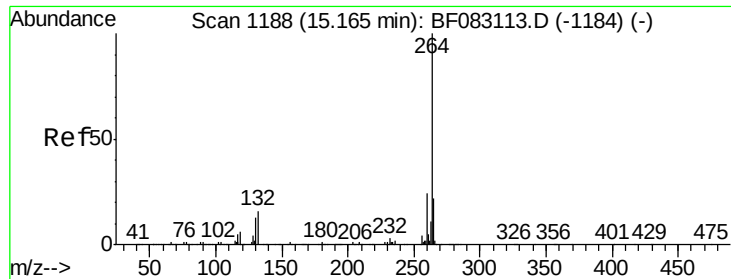


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

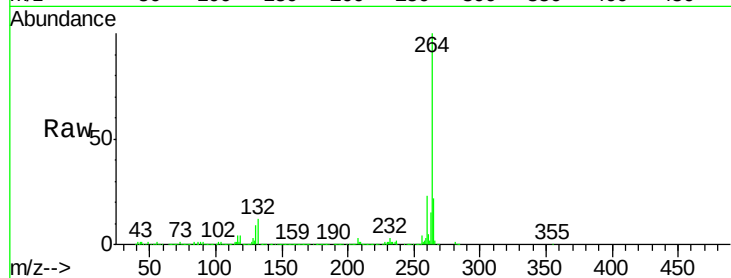




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.14 min Scan# 1151  
Delta R.T. -0.02 min  
Lab File: BF083199.D  
Acq: 23 Nov 2015 12:10

Instrument :  
BNA\_F  
ClientSampleId :  
MW-10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.7  | 19.1  | 28.7  |
| 265     | 21.8  | 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

