

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF122016\  
 Data File : BF091816.D  
 Acq On : 20 Dec 2016 13:27  
 Operator : UM/SJ  
 Sample : PB95481BL  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB95481BL

Quant Time: Dec 20 23:39:03 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 17 22:53:54 2016  
 Response via : Initial Calibration

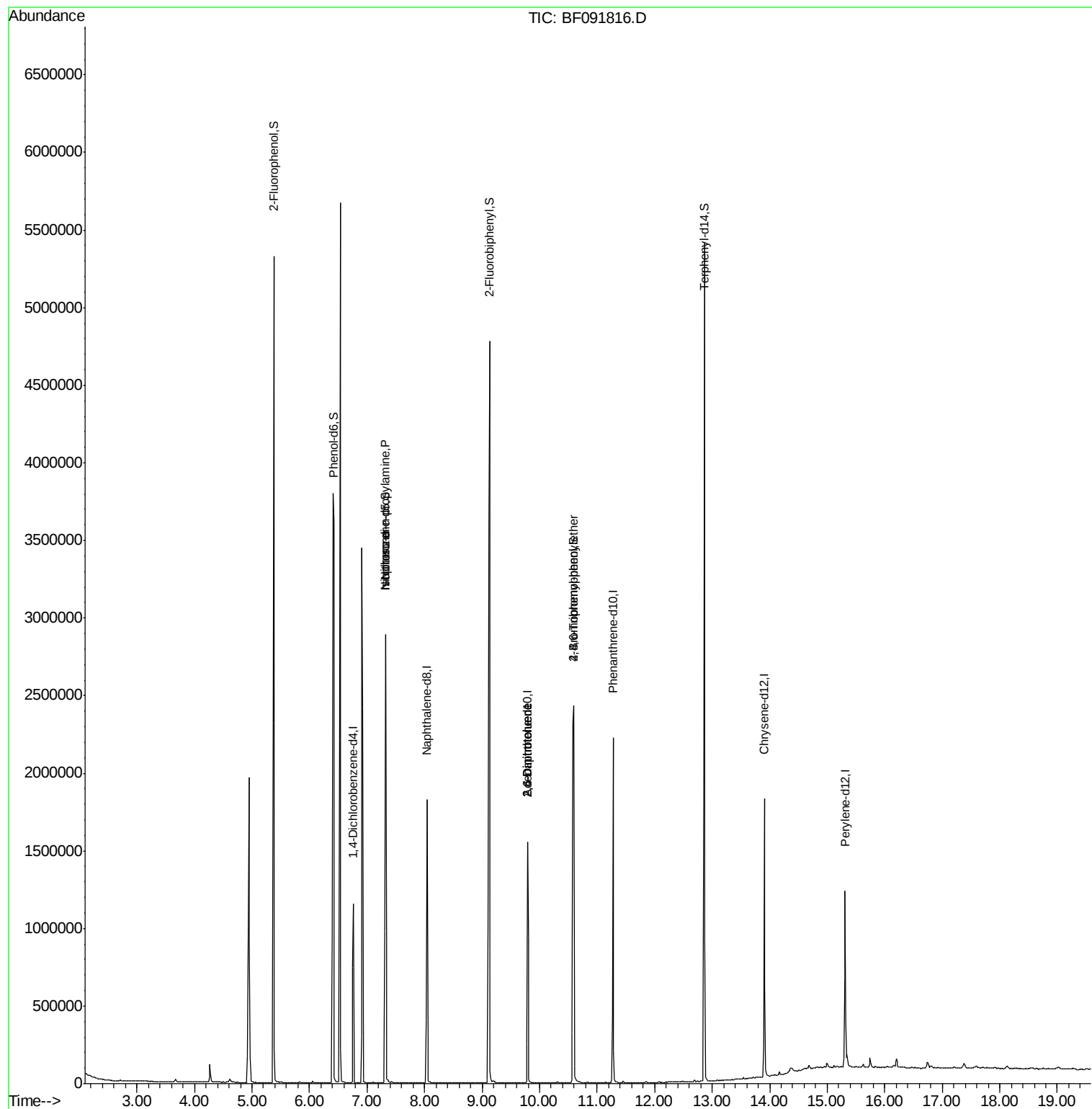
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.76  | 152  | 225769   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.04  | 136  | 895637   | 20.00     | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.79  | 164  | 465475   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.28 | 188  | 789285   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.91 | 240  | 654379   | 20.00     | ng    | -0.02    |
| 86) Perylene-d12               | 15.31 | 264  | 542631   | 20.00     | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.38  | 112  | 1531085  | 113.62    | ng    | 0.01     |
| 7) Phenol-d6                   | 6.42  | 99   | 2114274  | 128.65    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.32  | 82   | 1179929  | 75.97     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.59 | 330  | 476605   | 120.75    | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.13  | 172  | 2244151  | 96.86     | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.87 | 244  | 1826600  | 70.48     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.42  | 77   | 2925     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.32  | 70   | 154790   | 14.16     | ng    | # 78     |
| 25) Isophorone                 | 7.32  | 82   | 925755   | 31.24     | ng    | # 65     |
| 50) 2,6-Dinitrotoluene         | 9.79  | 165  | 60590    | 9.09      | ng    | # 30     |
| 56) 2,4-Dinitrotoluene         | 9.79  | 165  | 60593    | 7.28      | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 10.59 | 248  | 30320    | 3.66      | ng    | # 1      |

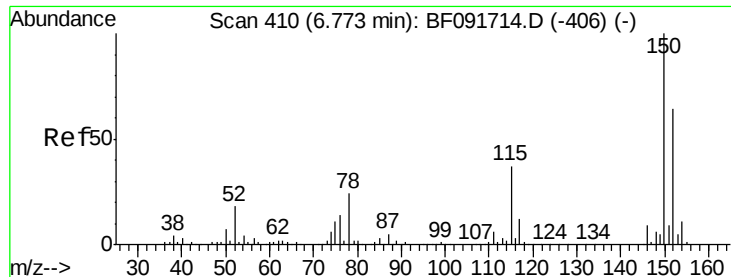
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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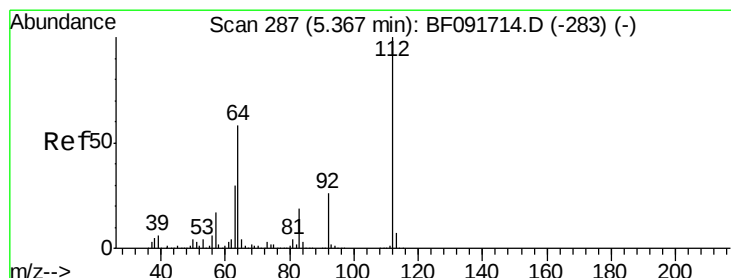
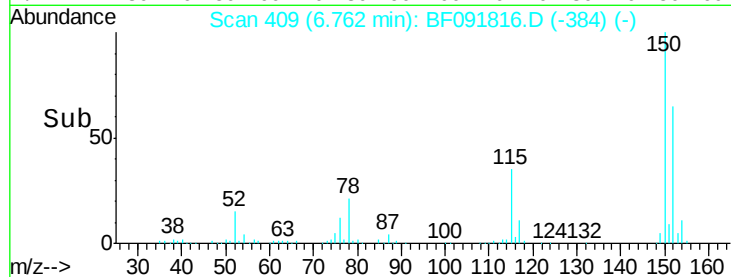
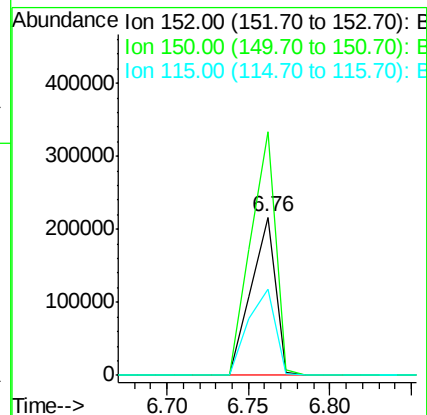
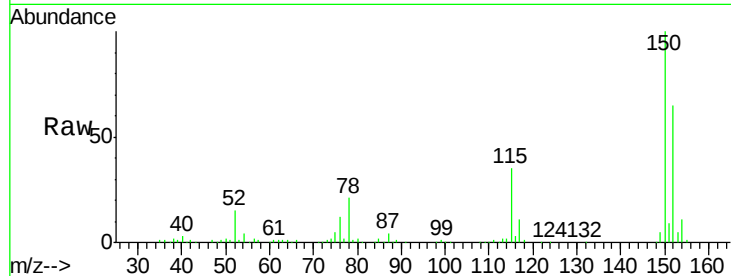


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.76 min Scan# 409  
Delta R.T. -0.01 min  
Lab File: BF091816.D  
Acq: 20 Dec 2016 13:27

Instrument :  
BNA\_F  
ClientSampleId :  
PB95481BL

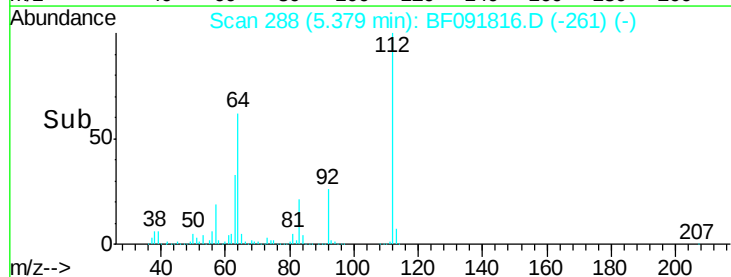
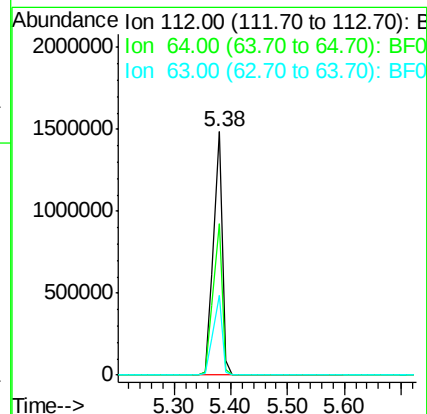
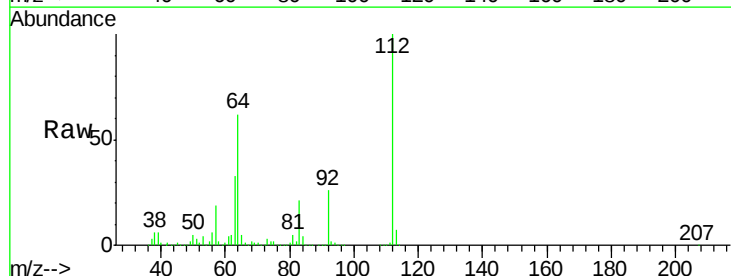
Tgt Ion:152 Resp: 225769  
Ion Ratio Lower Upper  
152 100  
150 153.9 124.9 187.3  
115 54.2 46.0 69.0

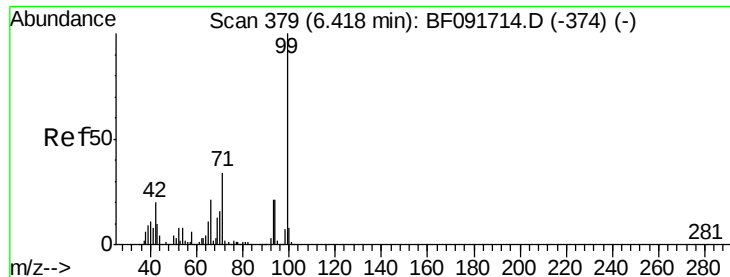


#5

2-Fluorophenol  
Concen: 113.62 ng  
RT: 5.38 min Scan# 288  
Delta R.T. 0.01 min  
Lab File: BF091816.D  
Acq: 20 Dec 2016 13:27

Tgt Ion:112 Resp: 1531085  
Ion Ratio Lower Upper  
112 100  
64 62.4 46.1 69.1  
63 32.5 23.8 35.6





#7

Phenol-d6

Concen: 128.65 ng

RT: 6.42 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF091816.D

Acq: 20 Dec 2016 13:27

Instrument :

BNA\_F

ClientSampleId :

PB95481BL

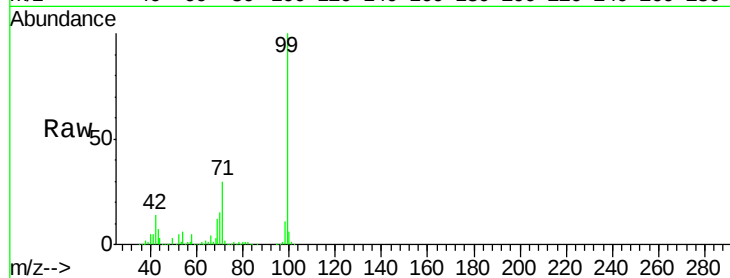
Tgt Ion: 99 Resp: 2114274

Ion Ratio Lower Upper

99 100

42 13.8 15.6 23.4#

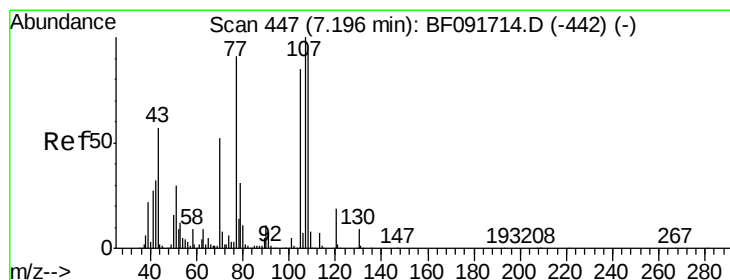
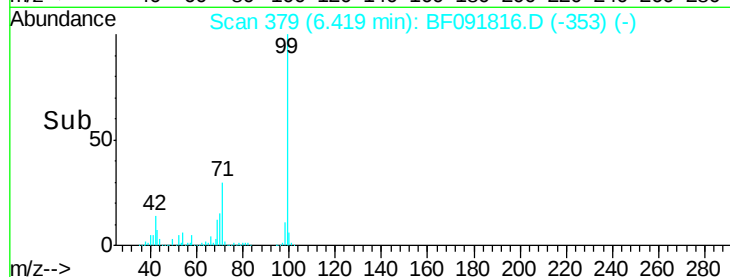
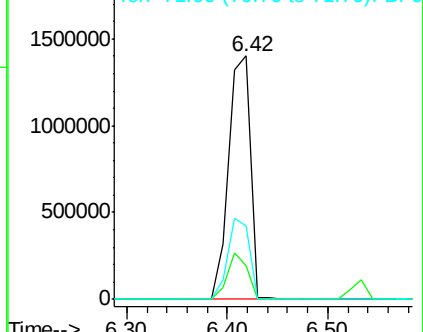
71 30.3 27.5 41.3



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: 14.16 ng

RT: 7.32 min Scan# 458

Delta R.T. 0.13 min

Lab File: BF091816.D

Acq: 20 Dec 2016 13:27

Tgt Ion: 70 Resp: 154790

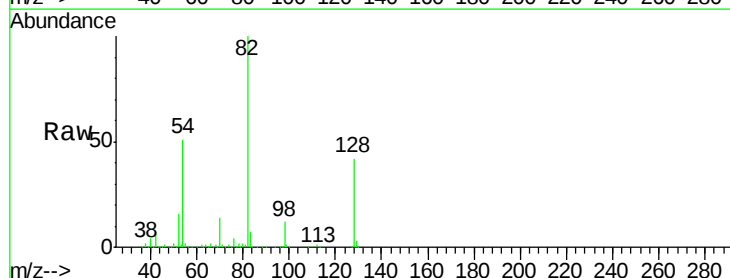
Ion Ratio Lower Upper

70 100

42 47.9 49.4 74.0#

101 0.0 7.4 11.2#

130 2.2 14.2 21.4#

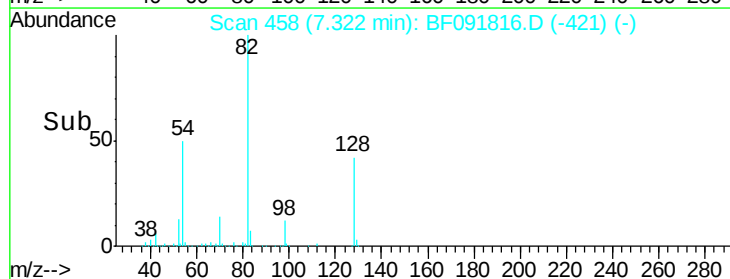
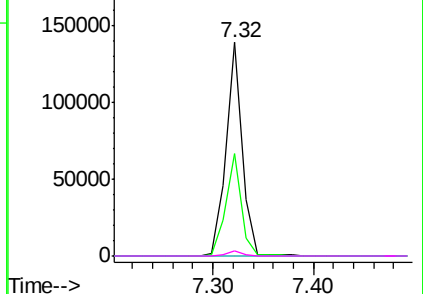


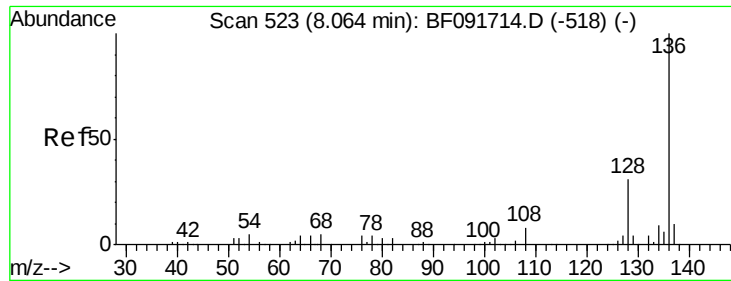
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

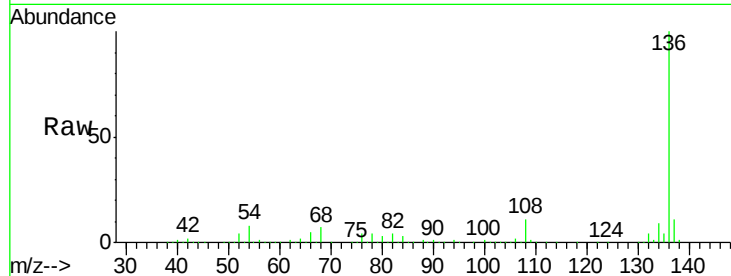




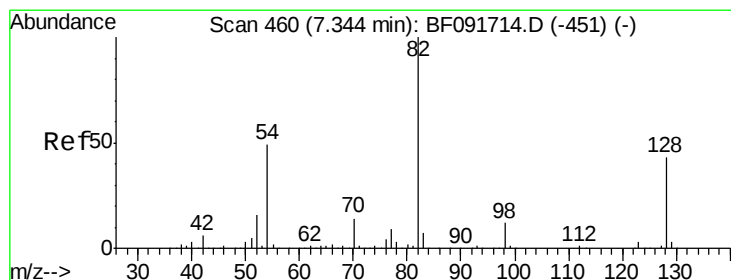
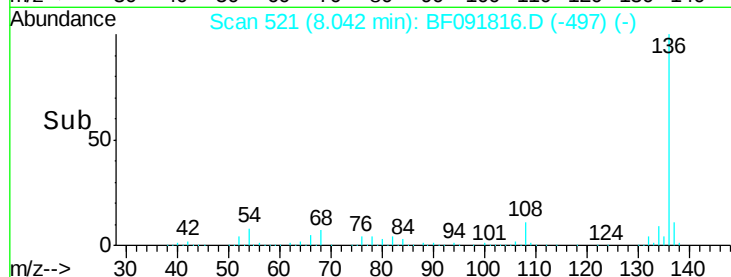
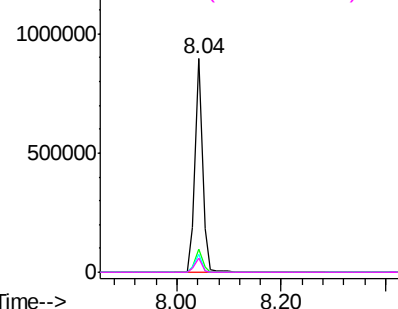
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.04 min Scan# 521  
Delta R.T. -0.02 min  
Lab File: BF091816.D  
Acq: 20 Dec 2016 13:27

Instrument :  
BNA\_F  
ClientSampleId :  
PB95481BL

Tgt Ion: 136 Resp: 895637  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.4 12.6  
54 8.4 4.5 6.7#  
68 6.6 3.6 5.4#

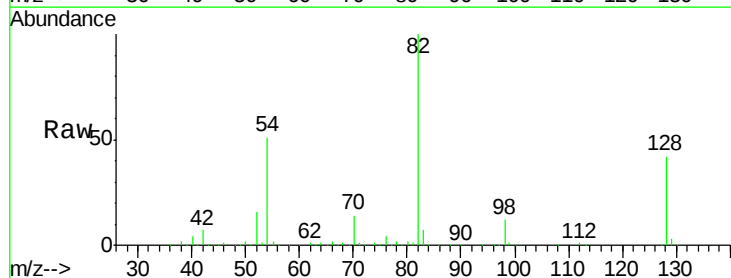


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

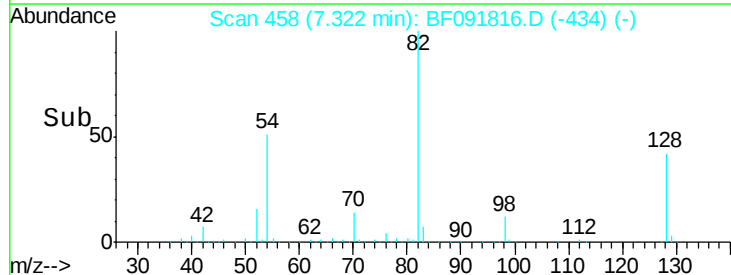
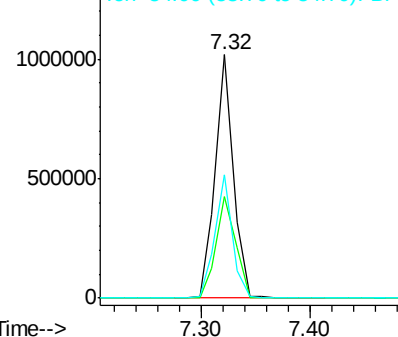


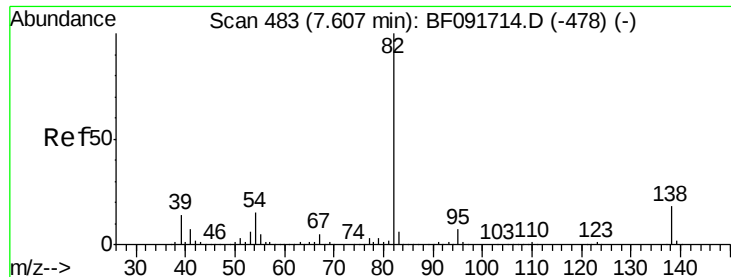
#23  
Nitrobenzene-d5  
Concen: 75.97 ng  
RT: 7.32 min Scan# 458  
Delta R.T. -0.02 min  
Lab File: BF091816.D  
Acq: 20 Dec 2016 13:27

Tgt Ion: 82 Resp: 1179929  
Ion Ratio Lower Upper  
82 100  
128 41.7 34.6 52.0  
54 50.8 39.5 59.3



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





#25

Isophorone

Concen: 31.24 ng

RT: 7.32 min Scan# 458

Delta R.T. -0.29 min

Lab File: BF091816.D

Acq: 20 Dec 2016 13:27

Instrument :

BNA\_F

ClientSampleId :

PB95481BL

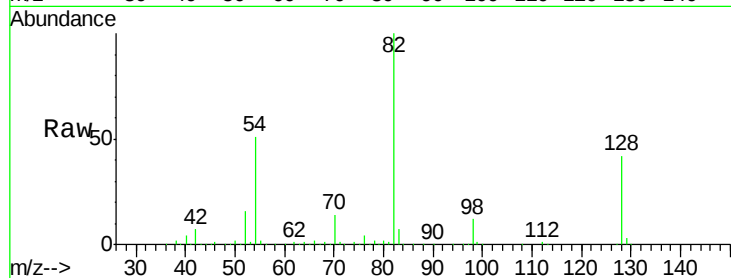
Tgt Ion: 82 Resp: 925755

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

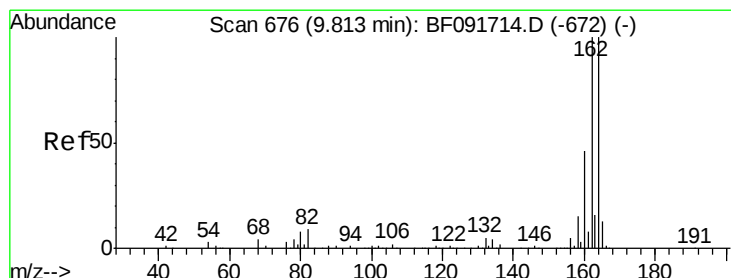
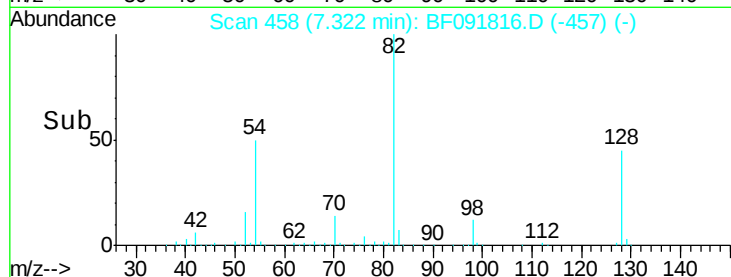
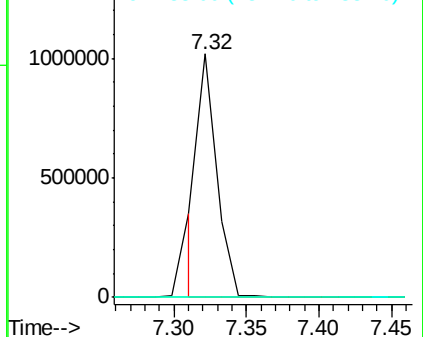
138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.79 min Scan# 674

Delta R.T. -0.02 min

Lab File: BF091816.D

Acq: 20 Dec 2016 13:27

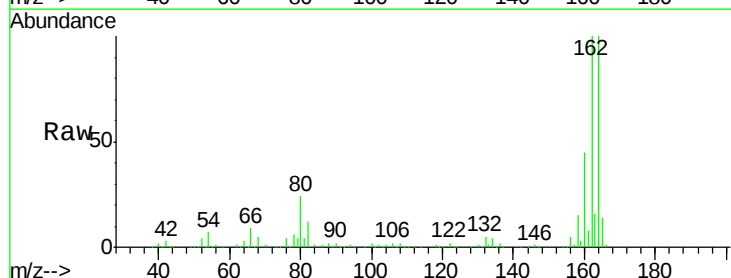
Tgt Ion: 164 Resp: 465475

Ion Ratio Lower Upper

164 100

162 100.4 80.2 120.2

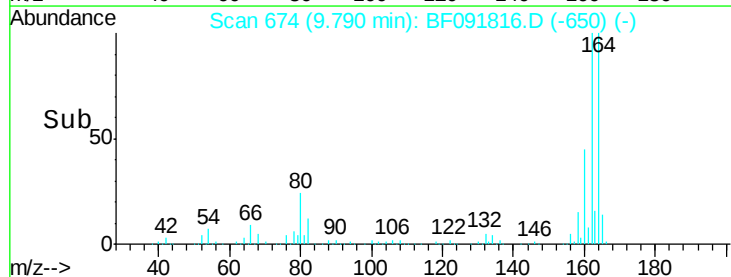
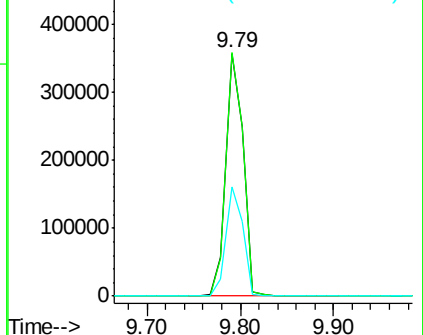
160 45.3 36.9 55.3

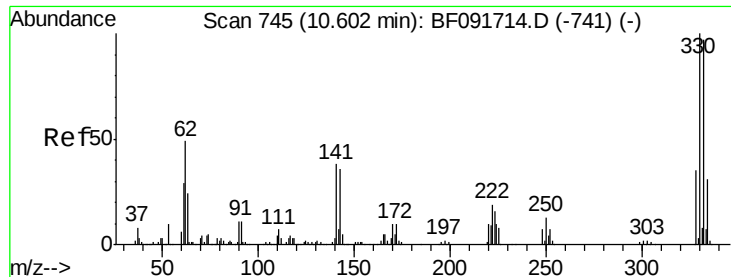


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

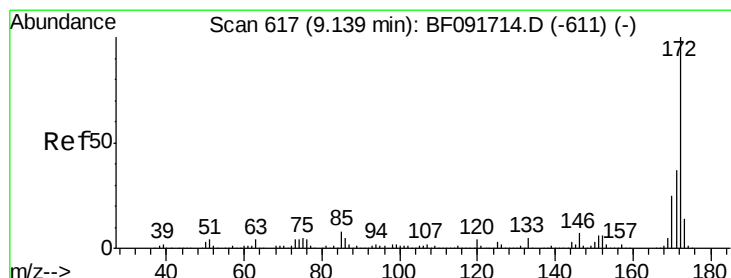
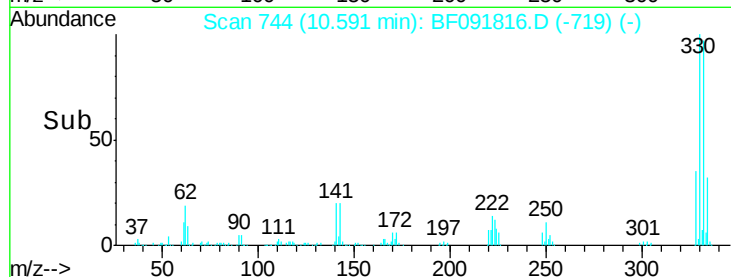
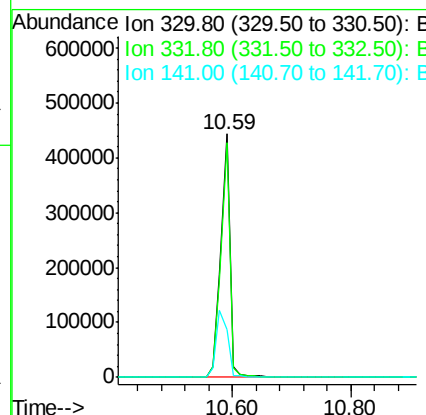
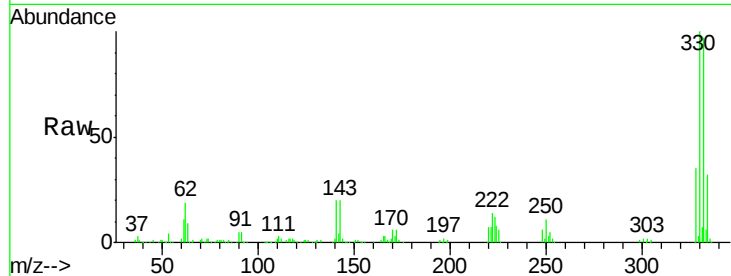




#41  
 2,4,6-Tribromophenol  
 Concen: 120.75 ng  
 RT: 10.59 min Scan# 744  
 Delta R.T. -0.01 min  
 Lab File: BF091816.D  
 Acq: 20 Dec 2016 13:27

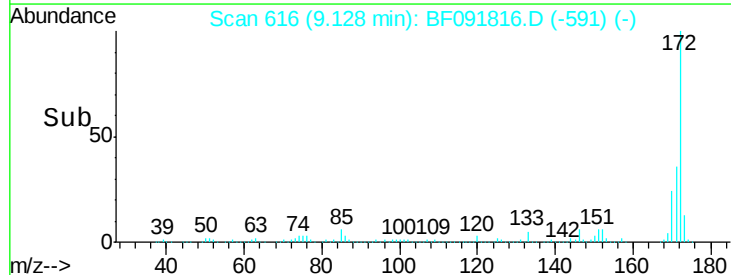
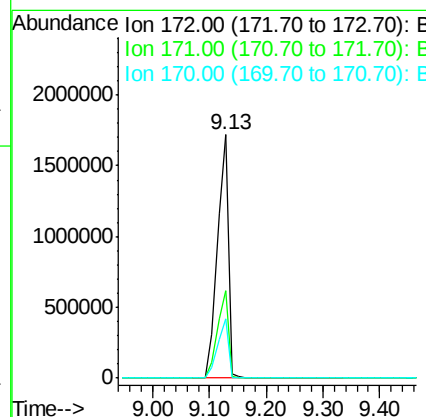
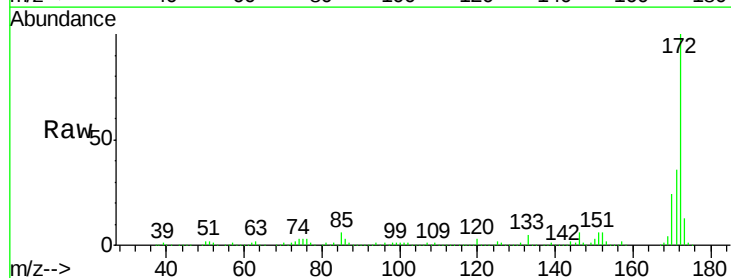
Instrument :  
 BNA\_F  
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 PB95481BL

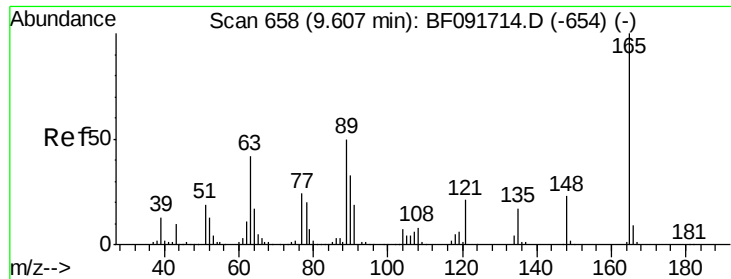
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 77.4  | 116.2 |
| 141     | 34.4  | 34.1  | 51.1  |



#44  
 2-Fluorobiphenyl  
 Concen: 96.86 ng  
 RT: 9.13 min Scan# 616  
 Delta R.T. -0.01 min  
 Lab File: BF091816.D  
 Acq: 20 Dec 2016 13:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.4  | 44.0  |
| 170     | 24.4  | 20.2  | 30.4  |

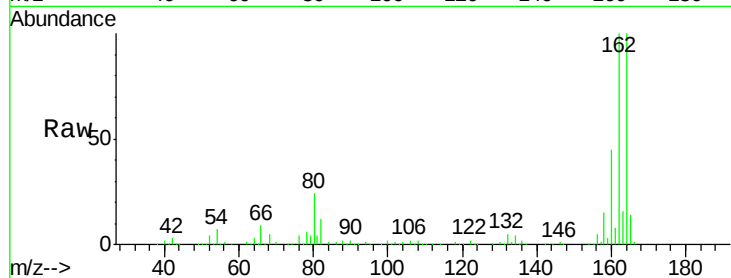




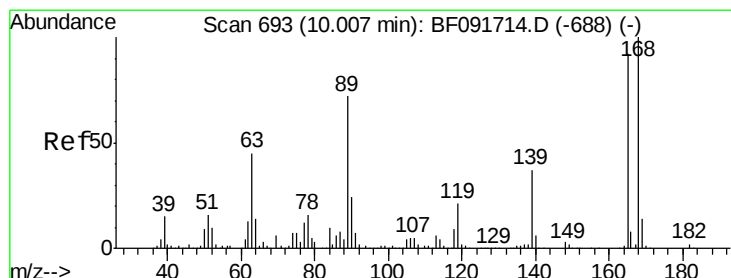
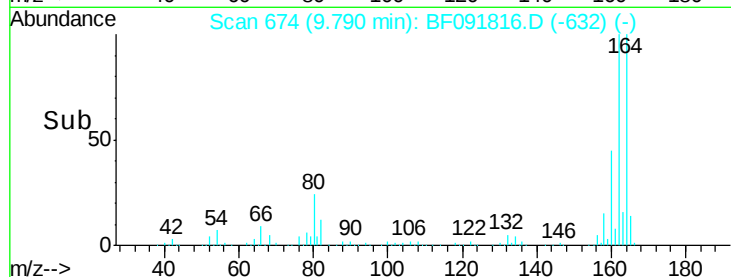
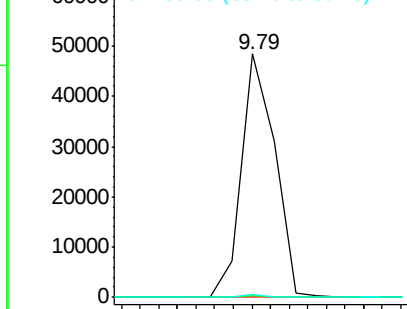
#50  
2,6-Dinitrotoluene  
Concen: 9.09 ng  
RT: 9.79 min Scan# 674  
Delta R.T. 0.18 min  
Lab File: BF091816.D  
Acq: 20 Dec 2016 13:27

Instrument :  
BNA\_F  
ClientSampleId :  
PB95481BL

Tgt Ion:165 Resp: 60590  
Ion Ratio Lower Upper  
165 100  
63 0.8 36.2 54.4#  
89 1.0 40.2 60.4#

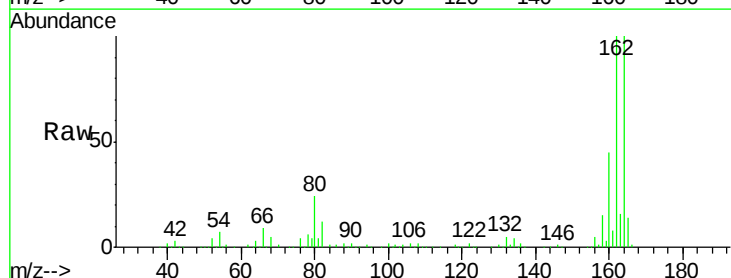


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

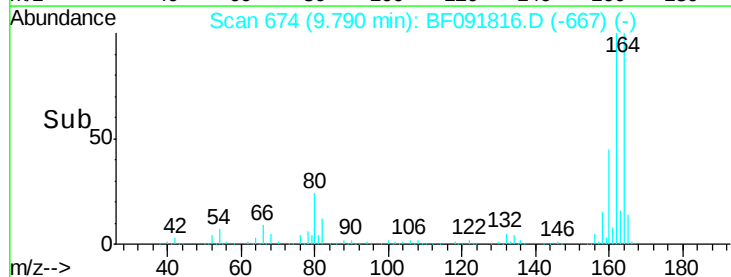
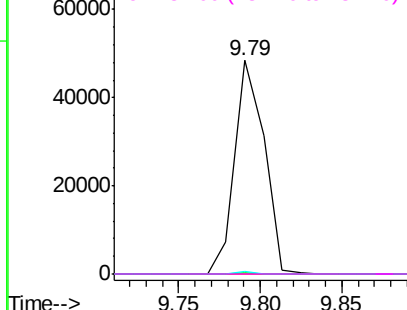


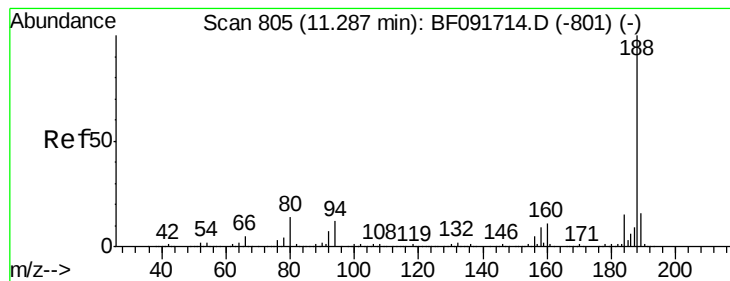
#56  
2,4-Dinitrotoluene  
Concen: 7.28 ng  
RT: 9.79 min Scan# 674  
Delta R.T. -0.22 min  
Lab File: BF091816.D  
Acq: 20 Dec 2016 13:27

Tgt Ion:165 Resp: 60593  
Ion Ratio Lower Upper  
165 100  
63 0.8 40.2 60.4#  
89 1.0 62.5 93.7#  
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: 11.28 min Scan# 804

Delta R.T. -0.01 min

Lab File: BF091816.D

Acq: 20 Dec 2016 13:27

Instrument :

BNA\_F

ClientSampleId :

PB95481BL

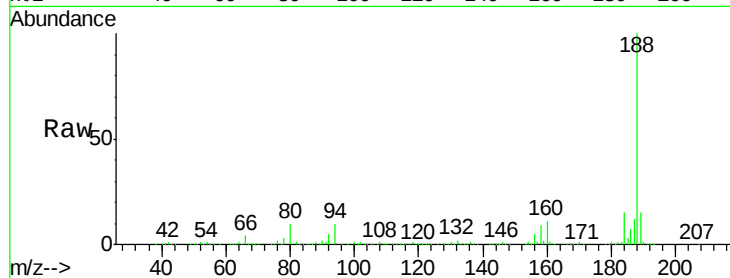
Tgt Ion:188 Resp: 789285

Ion Ratio Lower Upper

188 100

94 10.1 10.0 15.0

80 10.4 11.2 16.8#



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

1200000

800000

600000

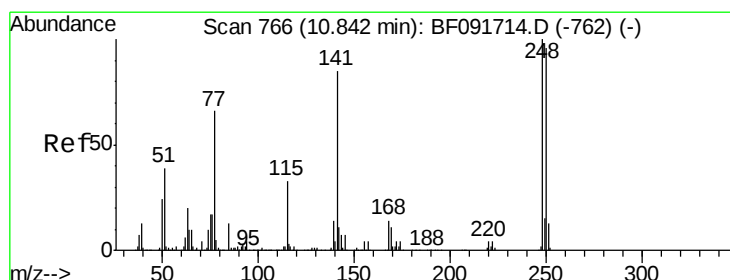
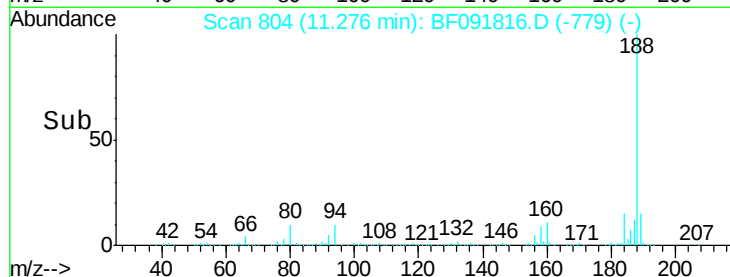
400000

200000

0

11.20 11.30 11.40 11.50

Time-->



#66

4-Bromophenyl-phenylether

Concen: 3.66 ng

RT: 10.59 min Scan# 744

Delta R.T. -0.25 min

Lab File: BF091816.D

Acq: 20 Dec 2016 13:27

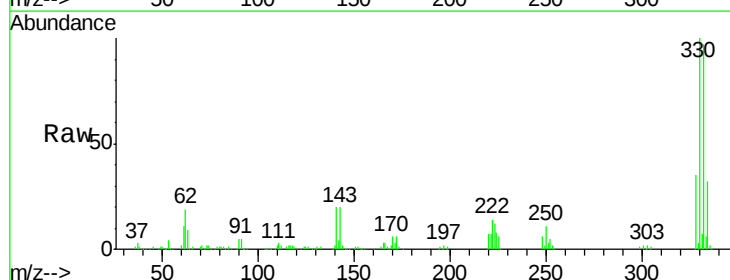
Tgt Ion:248 Resp: 30320

Ion Ratio Lower Upper

248 100

250 192.5 76.9 115.3#

141 342.8 68.2 102.4#



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

150000

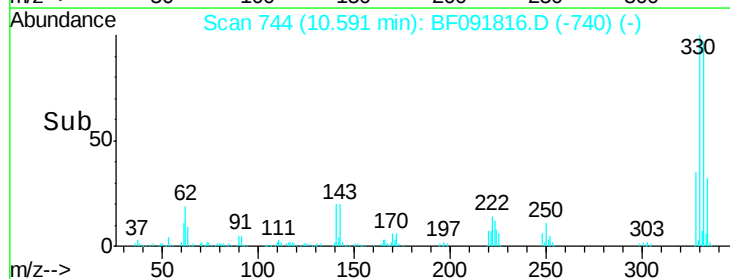
100000

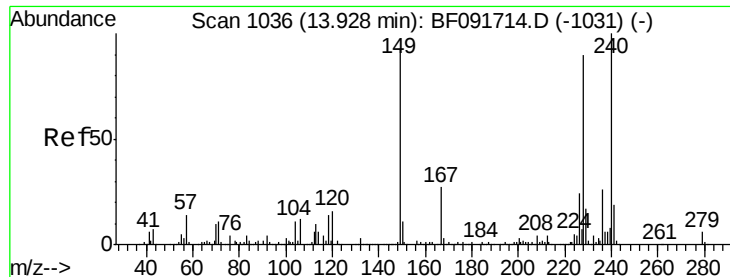
50000

0

10.55 10.60 10.65

Time-->





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.02 min

Lab File: BF091816.D

Acq: 20 Dec 2016 13:27

Instrument :

BNA\_F

ClientSampleId :

PB95481BL

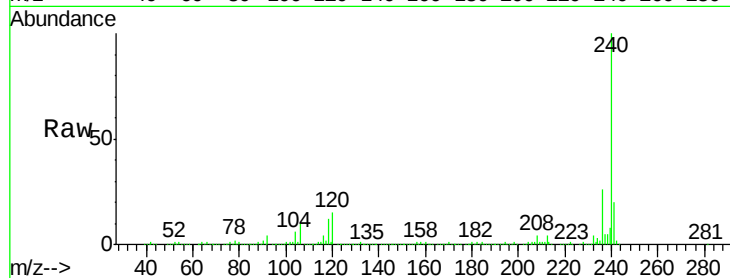
Tgt Ion:240 Resp: 654379

Ion Ratio Lower Upper

240 100

120 14.7 12.9 19.3

236 25.7 20.9 31.3



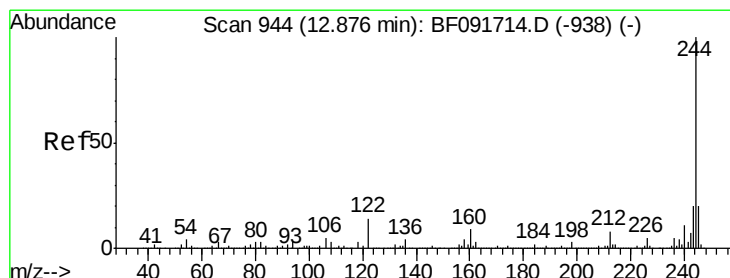
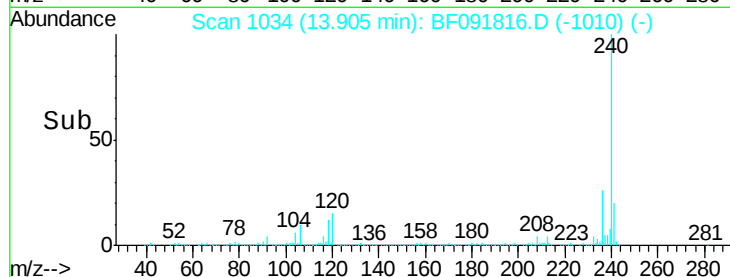
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

13.91

Time-->



#78

Terphenyl-d14

Concen: 70.48 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF091816.D

Acq: 20 Dec 2016 13:27

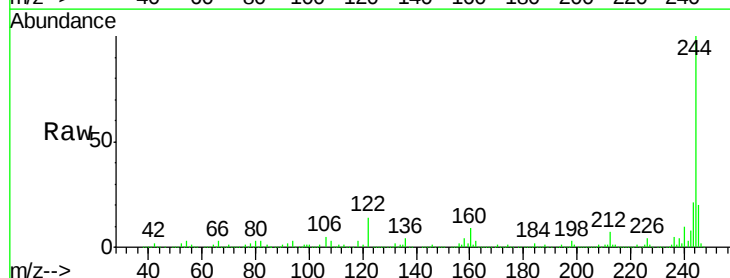
Tgt Ion:244 Resp: 1826600

Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.2

122 13.9 11.4 17.2



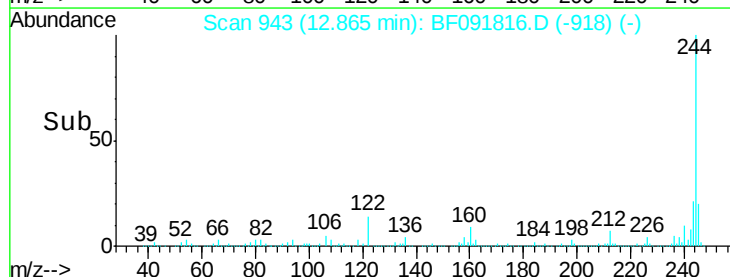
Abundance Ion 244.00 (243.70 to 244.70): E

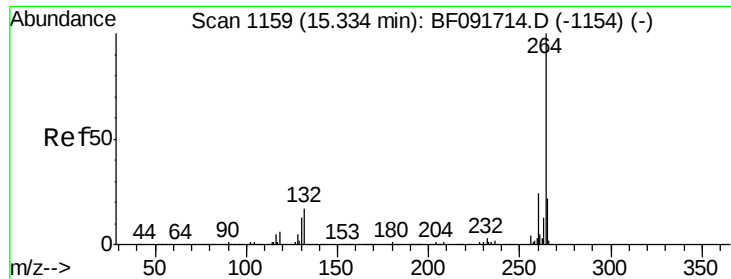
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

12.87

Time-->





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.31 min Scan# 1157  
Delta R.T. -0.02 min  
Lab File: BF091816.D  
Acq: 20 Dec 2016 13:27

Instrument :  
BNA\_F  
ClientSampleId :  
PB95481BL

Tgt Ion: 264 Resp: 542631  
Ion Ratio Lower Upper  
264 100  
260 23.6 19.2 28.8  
265 21.7 17.4 26.0

