

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051916\  
 Data File : BF087193.D  
 Acq On : 19 May 2016 18:08  
 Operator : UM/SJ  
 Sample : H3143-07  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 4-I-76(0-2)

Quant Time: May 20 02:33:28 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF051716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 17 16:55:01 2016  
 Response via : Initial Calibration

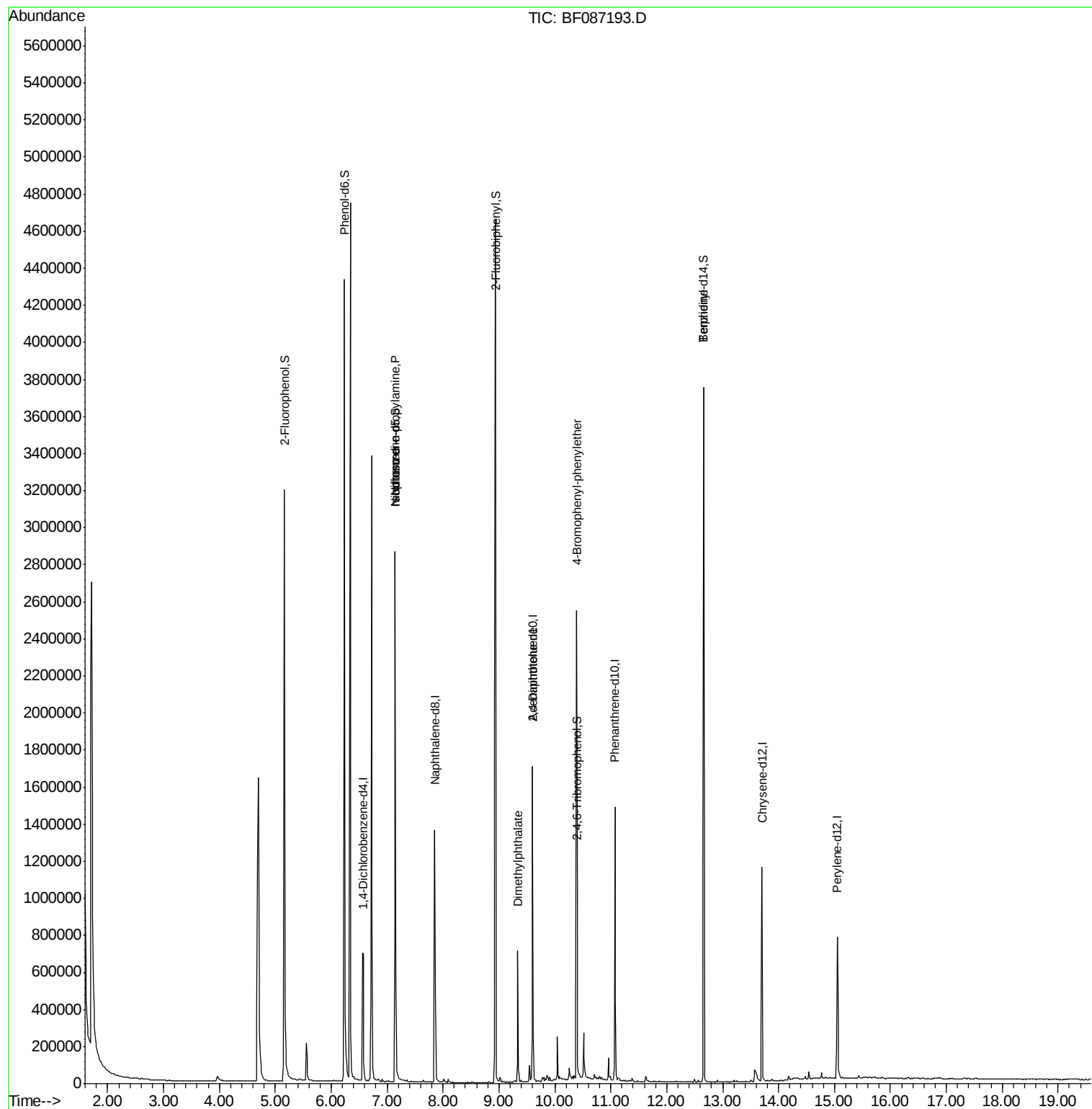
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.57  | 152  | 149007   | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 7.85  | 136  | 619025   | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.60  | 164  | 305918   | 20.00  | ng    | -0.05    |
| 63) Phenanthrene-d10           | 11.07 | 188  | 521961   | 20.00  | ng    | -0.05    |
| 75) Chrysene-d12               | 13.70 | 240  | 386061   | 20.00  | ng    | -0.06    |
| 86) Perylene-d12               | 15.05 | 264  | 320420   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.16  | 112  | 1198445  | 135.19 | ng    | -0.03    |
| 7) Phenol-d6                   | 6.24  | 99   | 1541225  | 129.63 | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.14  | 82   | 965062   | 77.70  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.40 | 330  | 350568   | 103.70 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl           | 8.94  | 172  | 1499118  | 81.16  | ng    | -0.05    |
| 78) Terphenyl-d14              | 12.66 | 244  | 1117218  | 65.46  | ng    | -0.05    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.14  | 70   | 137951   | 15.26  | ng    | # 74     |
| 25) Isophorone                 | 7.14  | 82   | 786260   | 34.58  | ng    | # 68     |
| 49) Dimethylphthalate          | 9.34  | 163  | 251617   | 10.78  | ng    | 100      |
| 56) 2,4-Dinitrotoluene         | 9.60  | 165  | 38874    | 5.99   | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 10.39 | 248  | 19738    | 3.68   | ng    | # 1      |
| 76) Benzidine                  | 12.66 | 184  | 17693    | 2.18   | ng    | # 96     |

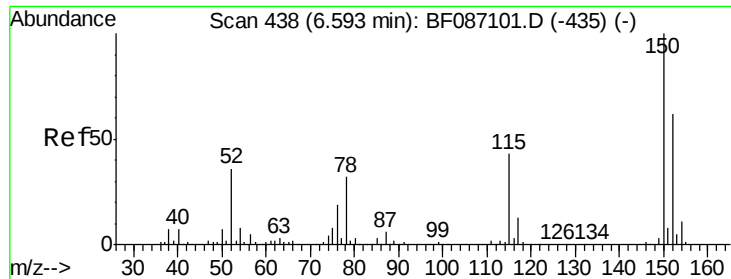
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.57 min Scan# 436

Delta R.T. -0.03 min

Lab File: BF087193.D

Acq: 19 May 2016 18:08

Instrument :

BNA\_F

ClientSampleId :

4-I-76(0-2)

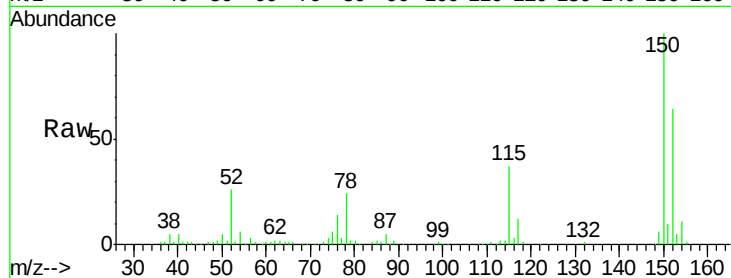
Tgt Ion:152 Resp: 149007

Ion Ratio Lower Upper

152 100

150 155.5 125.8 188.6

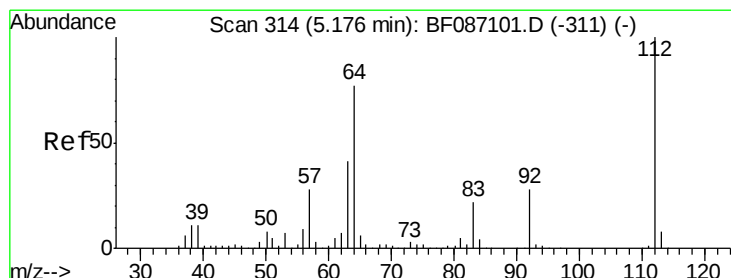
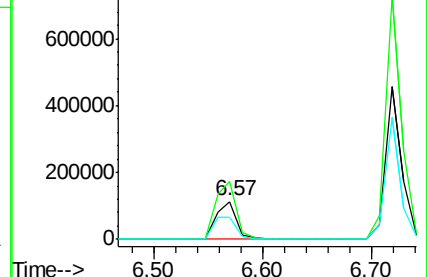
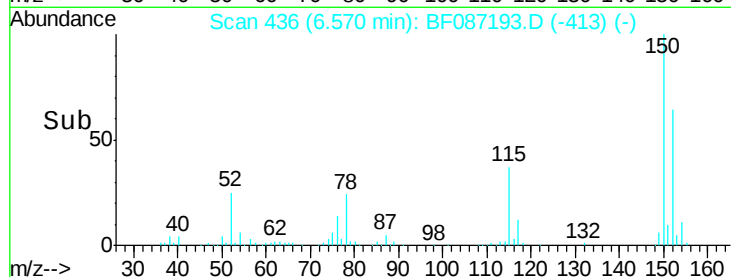
115 58.0 51.5 77.3



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: 135.19 ng

RT: 5.16 min Scan# 313

Delta R.T. -0.03 min

Lab File: BF087193.D

Acq: 19 May 2016 18:08

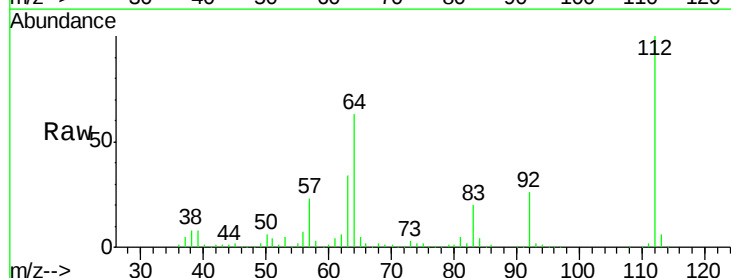
Tgt Ion:112 Resp: 1198445

Ion Ratio Lower Upper

112 100

64 63.2 52.1 78.1

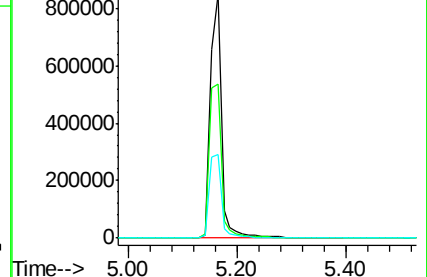
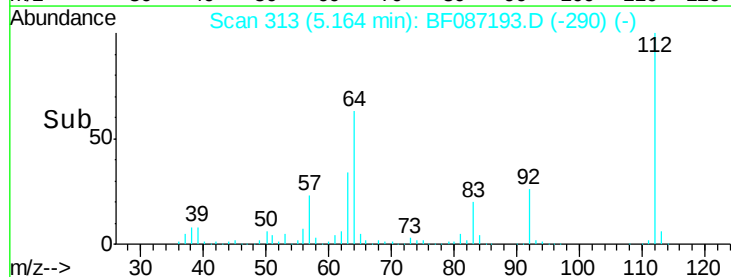
63 34.3 25.7 38.5

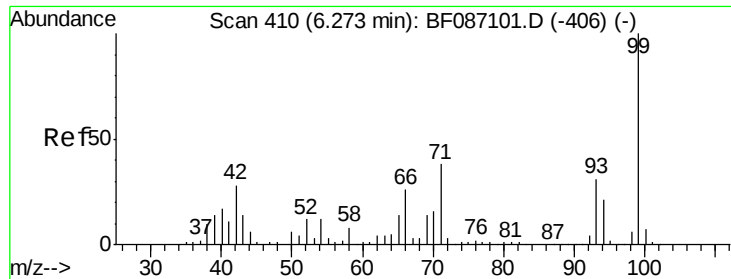


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 129.63 ng

RT: 6.24 min Scan# 407

Delta R.T. -0.05 min

Lab File: BF087193.D

Acq: 19 May 2016 18:08

Instrument :

BNA\_F

ClientSampleId :

4-I-76(0-2)

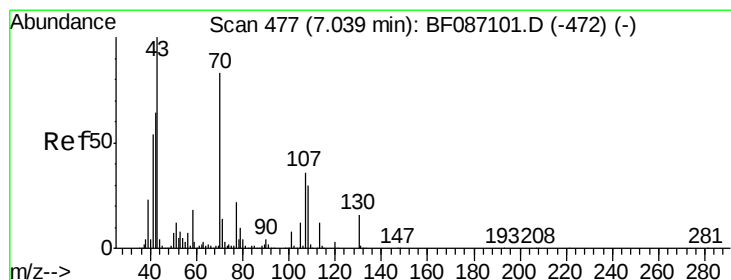
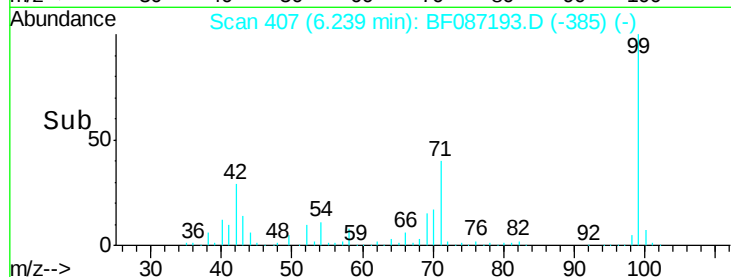
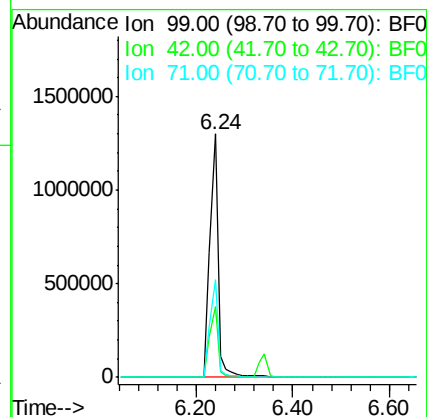
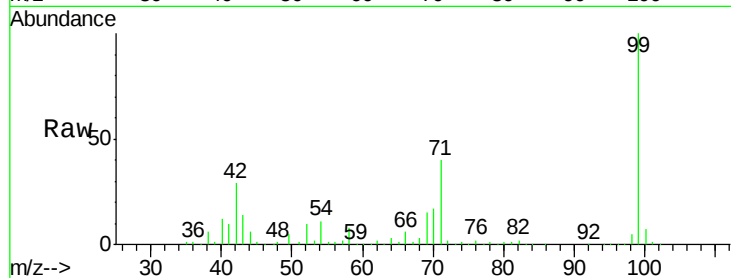
Tgt Ion: 99 Resp: 1541225

Ion Ratio Lower Upper

99 100

42 29.1 13.6 20.4#

71 40.0 24.6 36.8#



#19

n-Nitroso-di-n-propylamine

Concen: 15.26 ng

RT: 7.14 min Scan# 486

Delta R.T. 0.09 min

Lab File: BF087193.D

Acq: 19 May 2016 18:08

Tgt Ion: 70 Resp: 137951

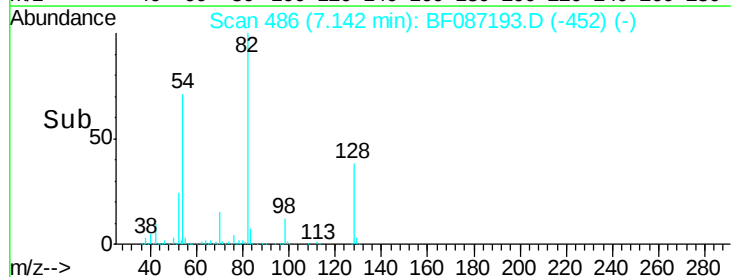
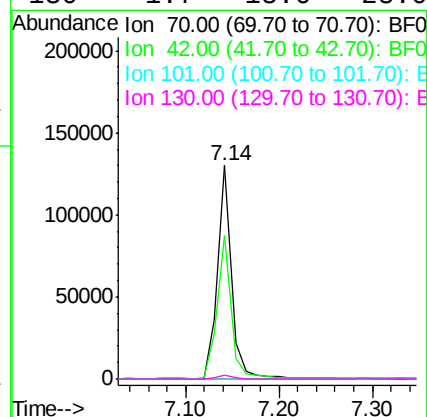
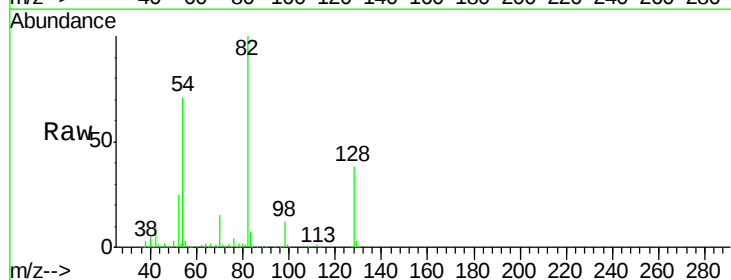
Ion Ratio Lower Upper

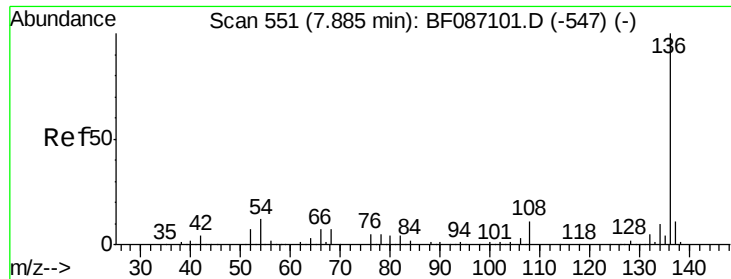
70 100

42 66.9 43.1 64.7#

101 0.0 8.1 12.1#

130 1.7 18.6 28.0#

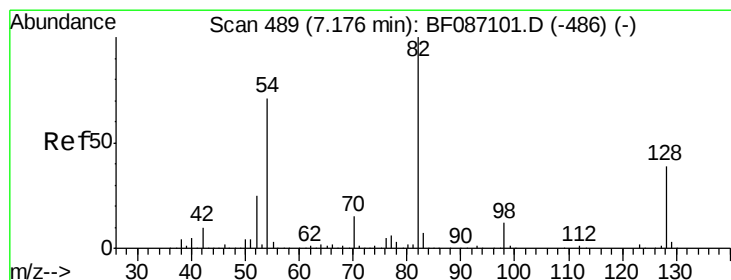
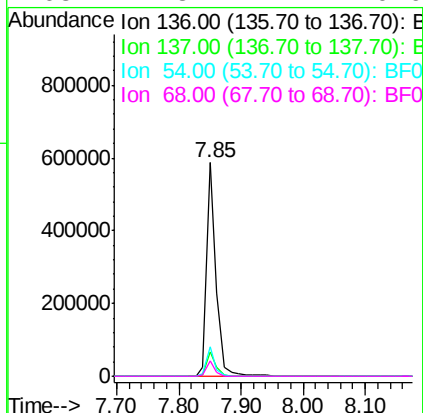
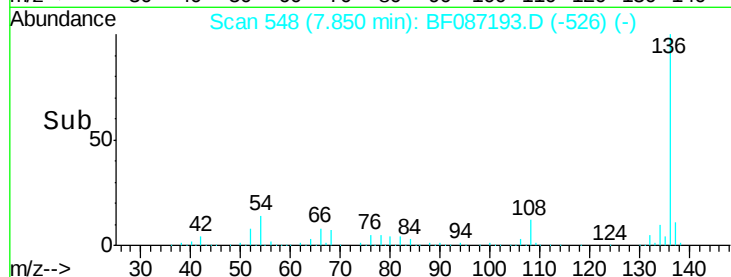
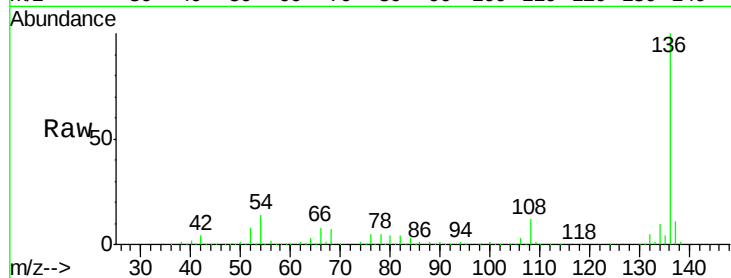




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.85 min Scan# 548  
Delta R.T. -0.05 min  
Lab File: BF087193.D  
Acq: 19 May 2016 18:08

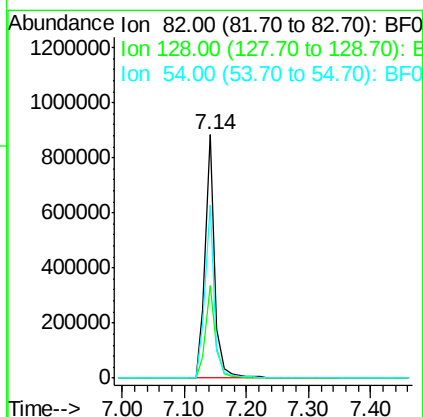
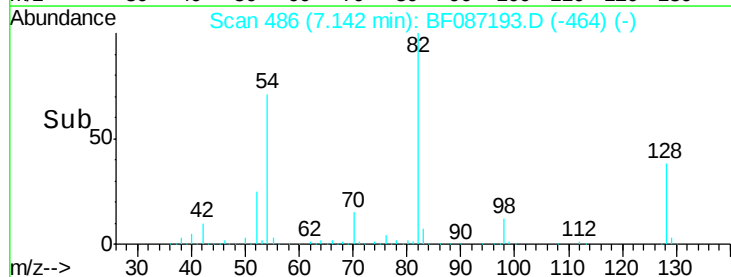
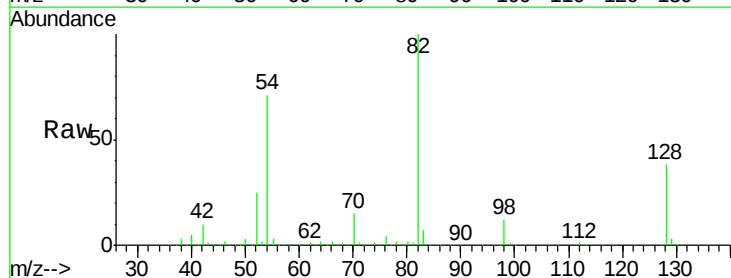
Instrument :  
BNA\_F  
ClientSampleId :  
4-I-76(0-2)

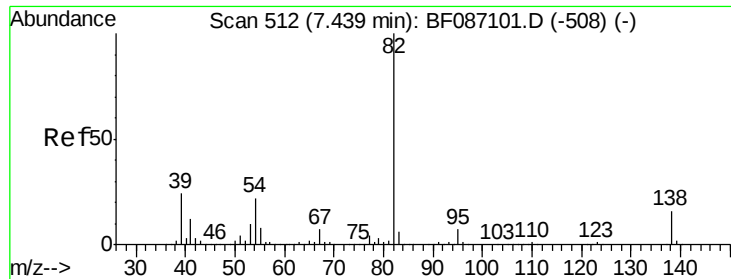
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 619025 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.8   | 13.2   |
| 54       | 14.0  | 5.0   | 7.4#   |
| 68       | 7.3   | 4.4   | 6.6#   |



#23  
Nitrobenzene-d5  
Concen: 77.70 ng  
RT: 7.14 min Scan# 486  
Delta R.T. -0.05 min  
Lab File: BF087193.D  
Acq: 19 May 2016 18:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 965062 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 38.1  | 40.6  | 61.0#  |
| 54       | 71.0  | 38.1  | 57.1#  |

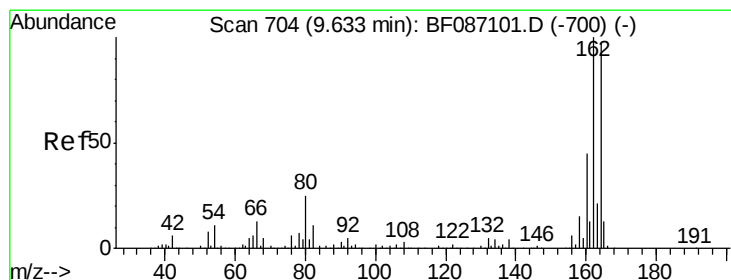
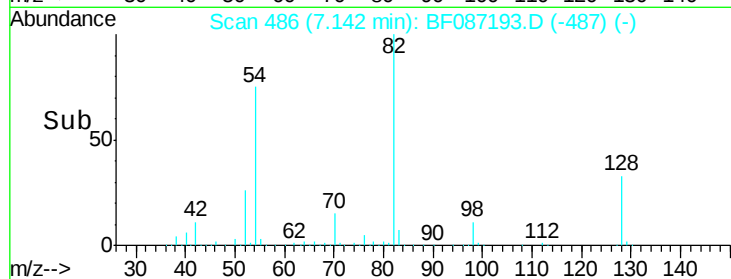
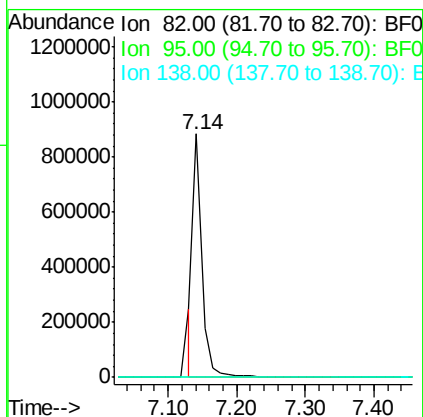
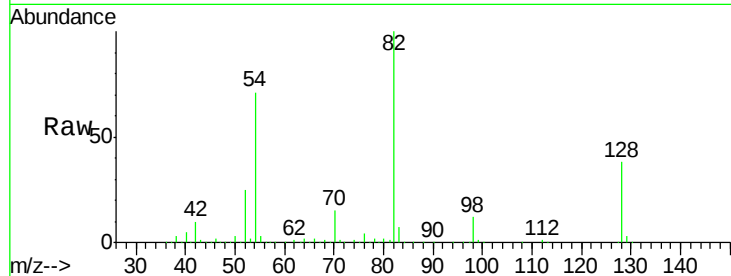




#25  
Isophorone  
Concen: 34.58 ng  
RT: 7.14 min Scan# 486  
Delta R.T. -0.31 min  
Lab File: BF087193.D  
Acq: 19 May 2016 18:08

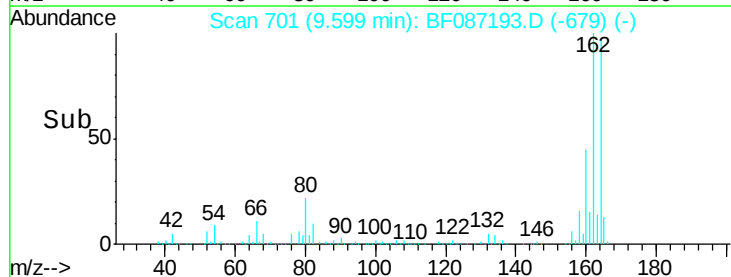
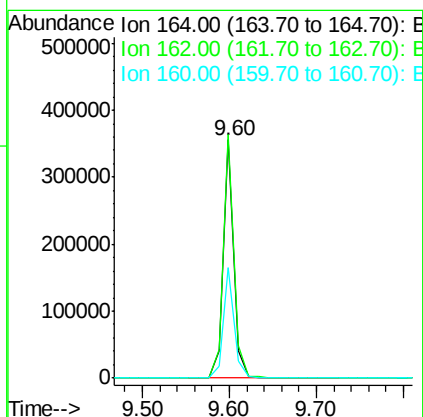
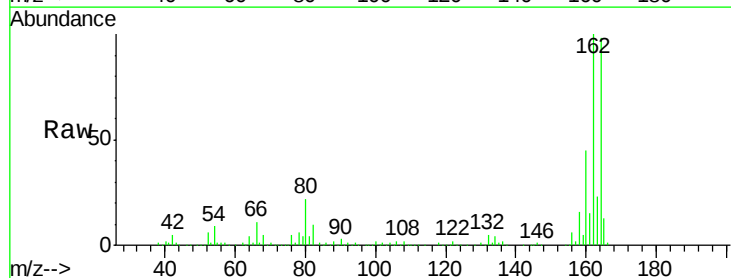
Instrument :  
BNA\_F  
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4-I-76(0-2)

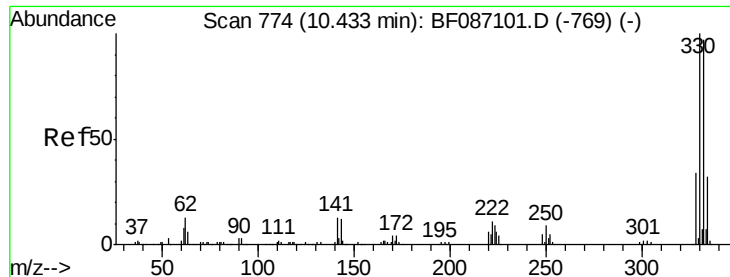
Tgt Ion: 82 Resp: 786260  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.1 7.7#  
138 0.0 12.4 18.6#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.60 min Scan# 701  
Delta R.T. -0.05 min  
Lab File: BF087193.D  
Acq: 19 May 2016 18:08

Tgt Ion: 164 Resp: 305918  
Ion Ratio Lower Upper  
164 100  
162 102.3 82.8 124.2  
160 46.4 36.9 55.3

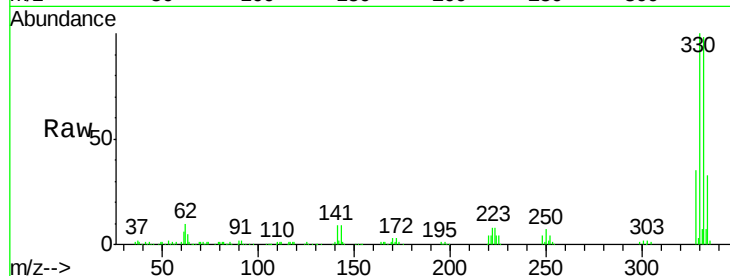




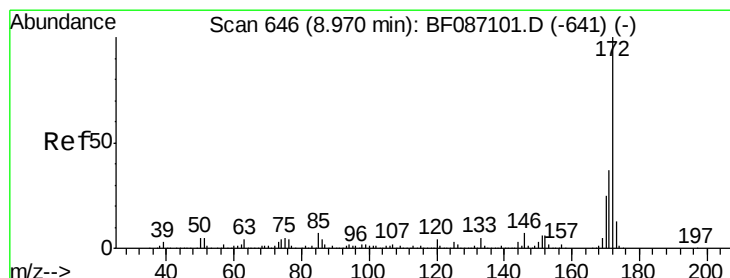
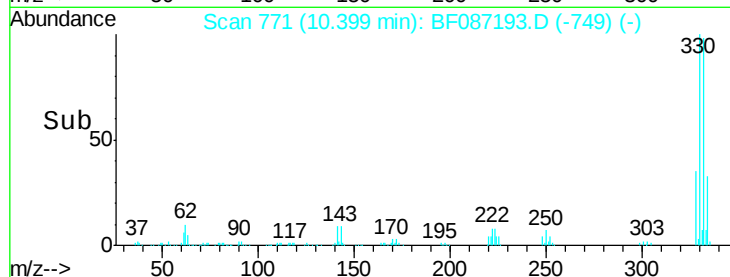
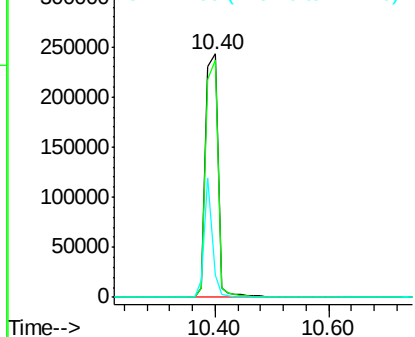
#41  
 2,4,6-Tribromophenol  
 Concen: 103.70 ng  
 RT: 10.40 min Scan# 771  
 Delta R.T. -0.05 min  
 Lab File: BF087193.D  
 Acq: 19 May 2016 18:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 4-I-76(0-2)

Tgt Ion:330 Resp: 350568  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 79.0 118.4  
 141 32.7 31.2 46.8

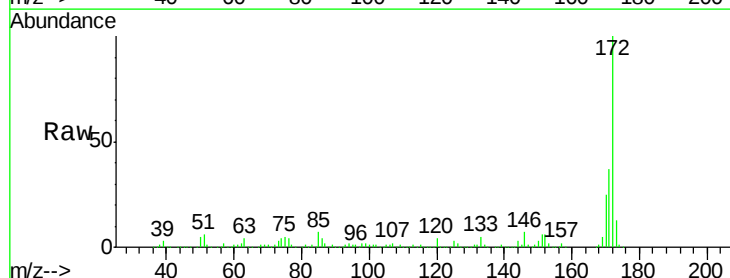


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

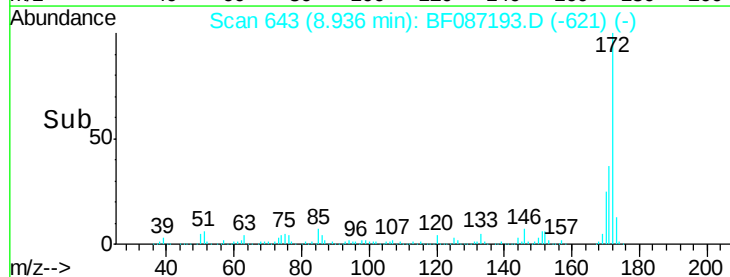
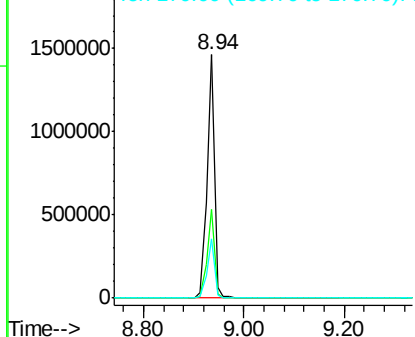


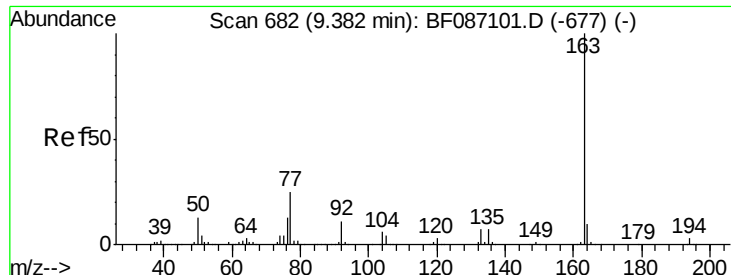
#44  
 2-Fluorobiphenyl  
 Concen: 81.16 ng  
 RT: 8.94 min Scan# 643  
 Delta R.T. -0.05 min  
 Lab File: BF087193.D  
 Acq: 19 May 2016 18:08

Tgt Ion:172 Resp: 1499118  
 Ion Ratio Lower Upper  
 172 100  
 171 36.7 29.0 43.6  
 170 24.5 19.8 29.8



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





#49

Dimethylphthalate

Concen: 10.78 ng

RT: 9.34 min Scan# 678

Delta R.T. -0.06 min

Lab File: BF087193.D

Acq: 19 May 2016 18:08

Instrument :

BNA\_F

ClientSampleId :

4-I-76(0-2)

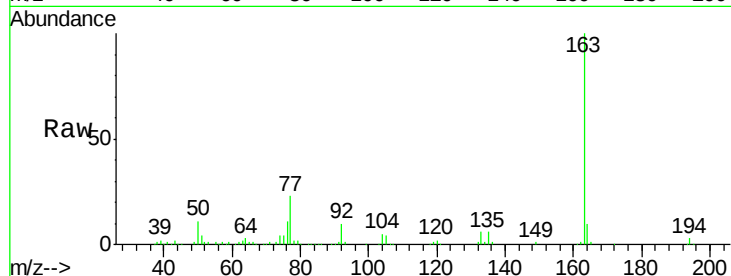
Tgt Ion:163 Resp: 251617

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

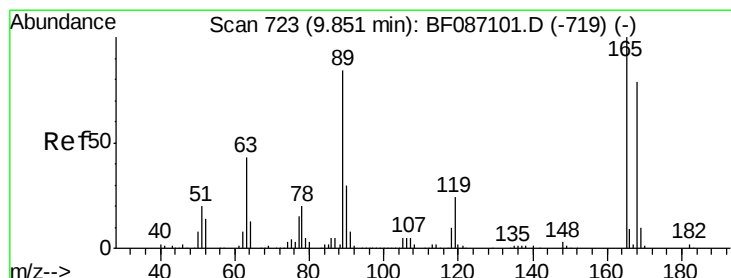
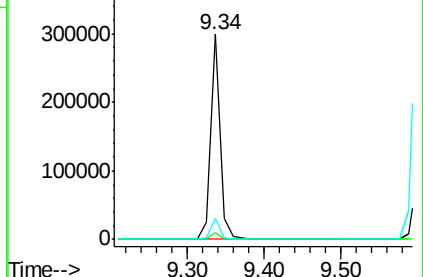
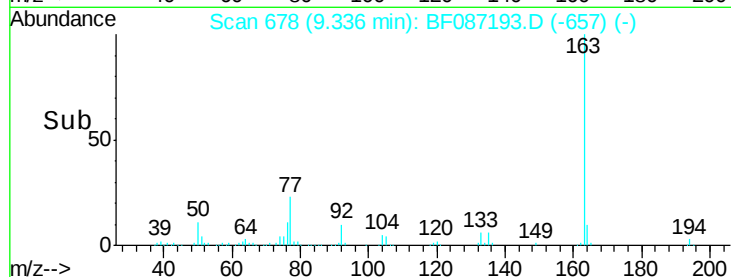
164 10.2 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 5.99 ng

RT: 9.60 min Scan# 701

Delta R.T. -0.26 min

Lab File: BF087193.D

Acq: 19 May 2016 18:08

Tgt Ion:165 Resp: 38874

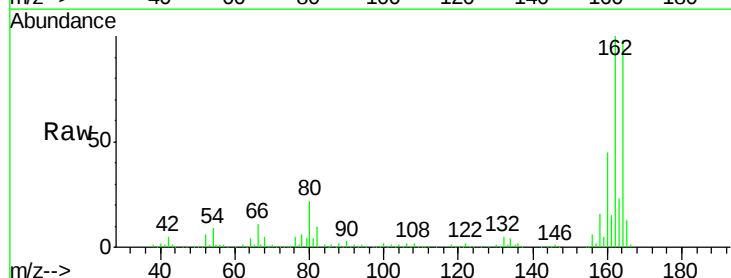
Ion Ratio Lower Upper

165 100

63 2.2 44.3 66.5#

89 2.1 70.0 105.0#

182 0.0 1.8 2.6#

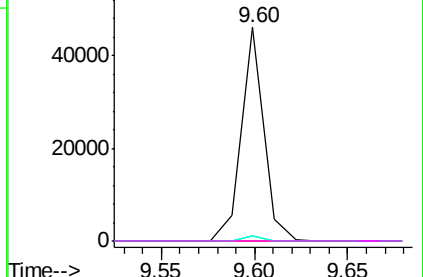
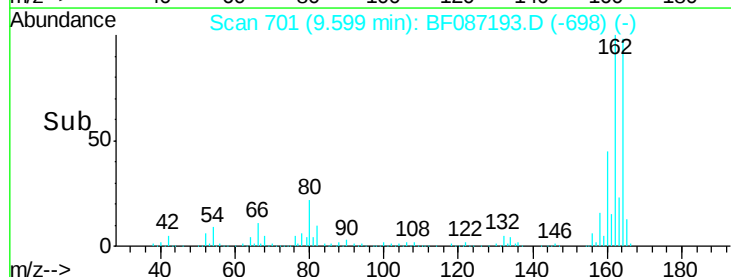


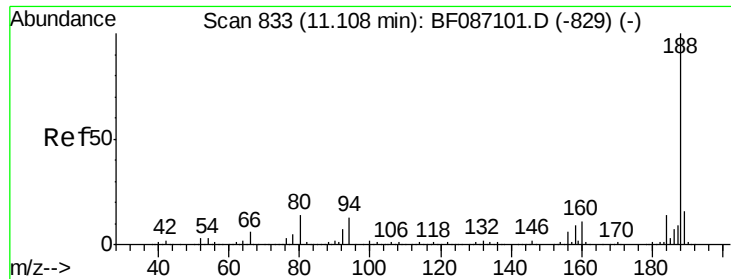
Abundance Ion 165.00 (164.70 to 165.70): E

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

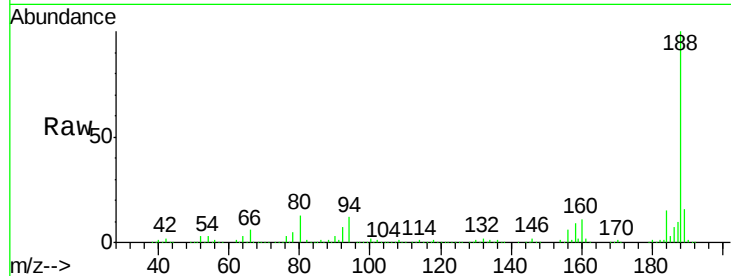




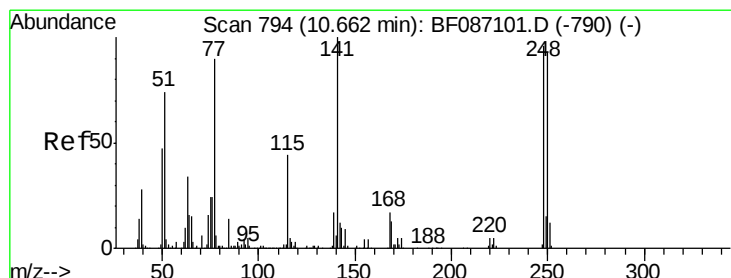
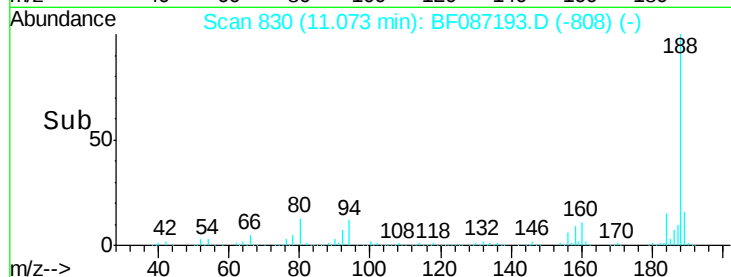
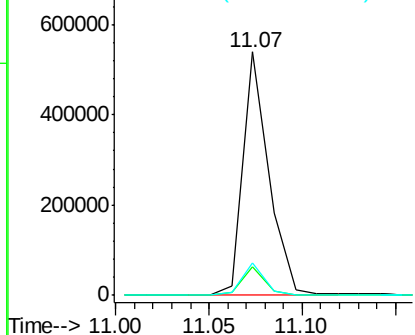
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.07 min Scan# 830  
 Delta R.T. -0.05 min  
 Lab File: BF087193.D  
 Acq: 19 May 2016 18:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 4-I-76(0-2)

Tgt Ion:188 Resp: 521961  
 Ion Ratio Lower Upper  
 188 100  
 94 12.0 6.8 10.2#  
 80 13.4 7.1 10.7#

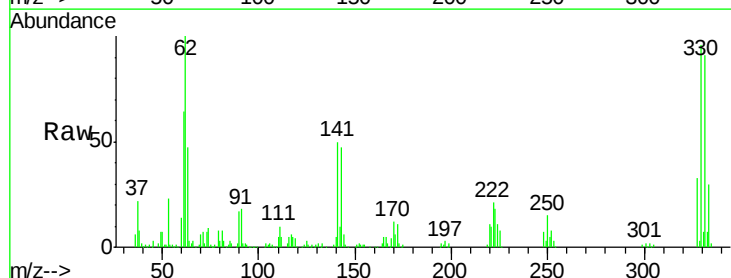


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

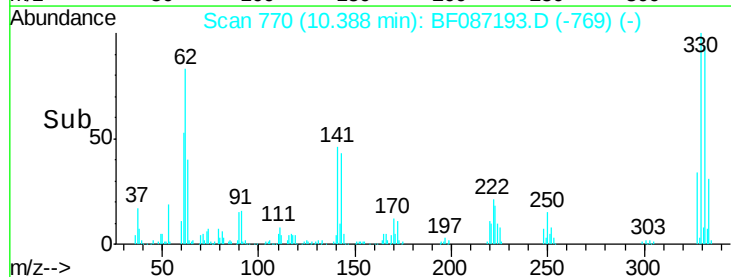
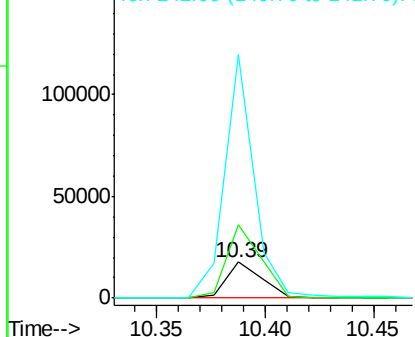


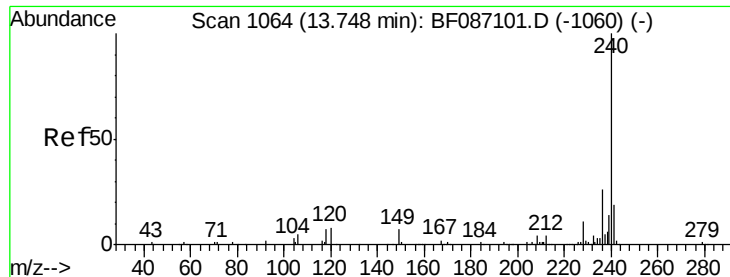
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.68 ng  
 RT: 10.39 min Scan# 770  
 Delta R.T. -0.29 min  
 Lab File: BF087193.D  
 Acq: 19 May 2016 18:08

Tgt Ion:248 Resp: 19738  
 Ion Ratio Lower Upper  
 248 100  
 250 203.0 78.6 117.8#  
 141 678.0 76.0 114.0#



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: 13.70 min Scan# 1060

Delta R.T. -0.06 min

Lab File: BF087193.D

Acq: 19 May 2016 18:08

Instrument :

BNA\_F

ClientSampleId :

4-I-76(0-2)

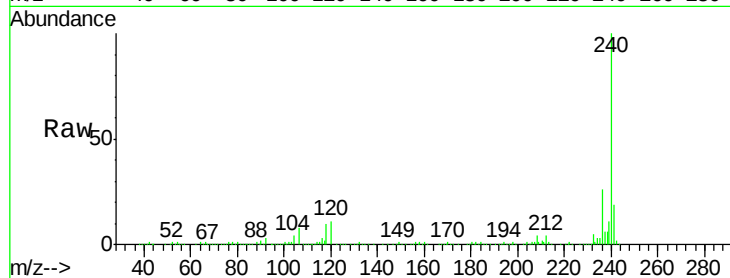
Tgt Ion:240 Resp: 386061

Ion Ratio Lower Upper

240 100

120 11.3 11.2 16.8

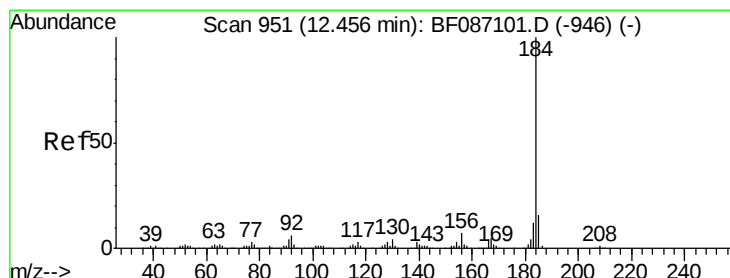
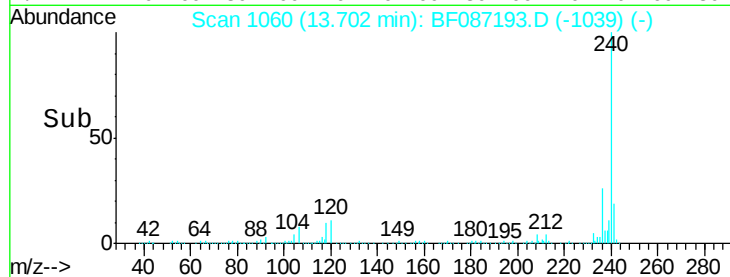
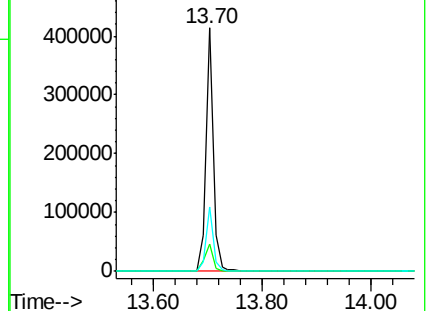
236 26.4 21.2 31.8



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



#76

Benzidine

Concen: 2.18 ng

RT: 12.66 min Scan# 969

Delta R.T. 0.20 min

Lab File: BF087193.D

Acq: 19 May 2016 18:08

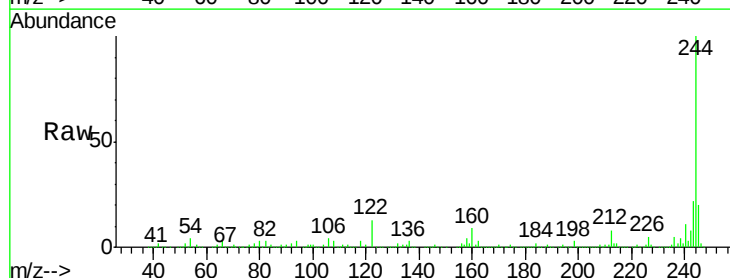
Tgt Ion:184 Resp: 17693

Ion Ratio Lower Upper

184 100

185 17.9 13.6 20.4

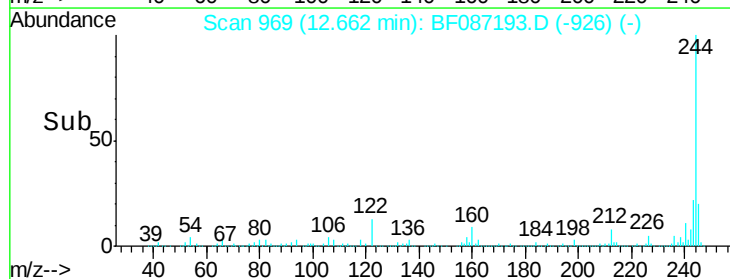
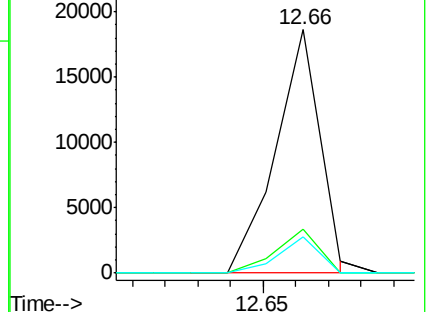
183 14.7 9.8 14.6#

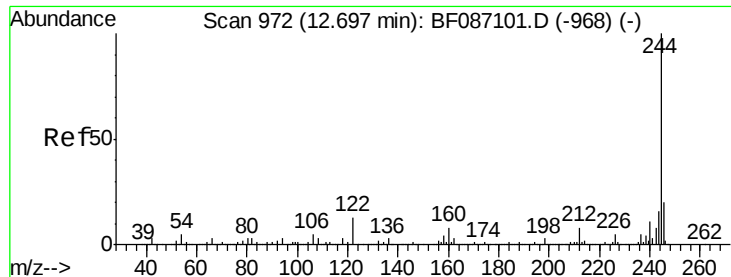


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 65.46 ng

RT: 12.66 min Scan# 969

Delta R.T. -0.05 min

Lab File: BF087193.D

Acq: 19 May 2016 18:08

Instrument :

BNA\_F

ClientSampleId :

4-I-76(0-2)

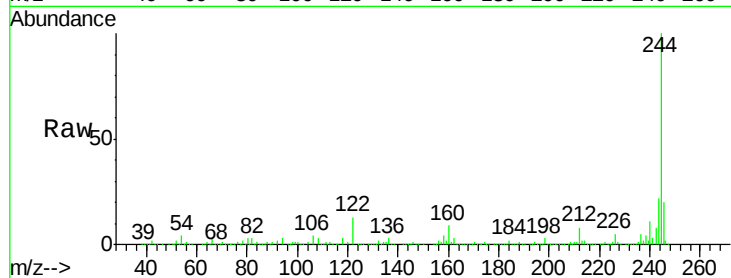
Tgt Ion:244 Resp: 1117218

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

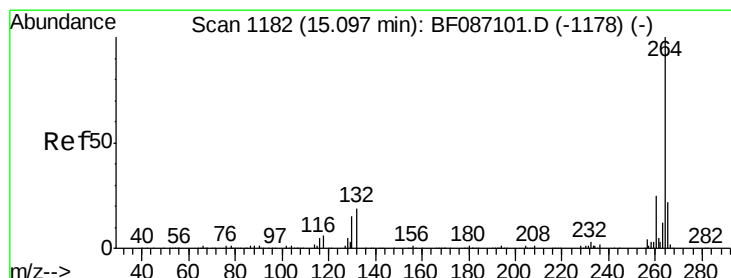
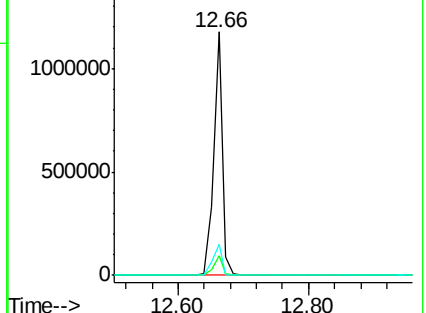
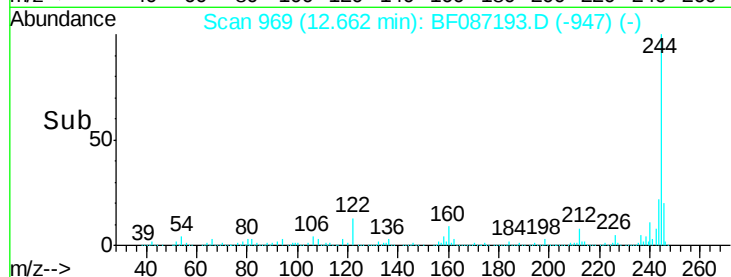
122 12.6 12.0 18.0



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: 15.05 min Scan# 1178

Delta R.T. -0.06 min

Lab File: BF087193.D

Acq: 19 May 2016 18:08

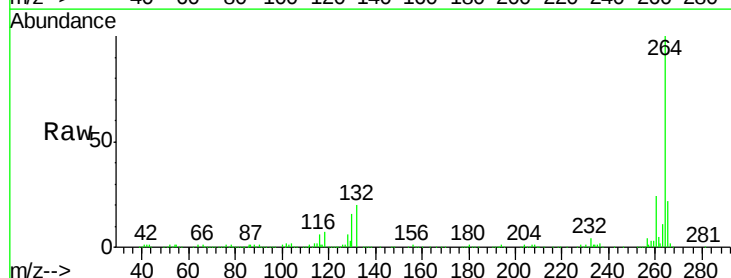
Tgt Ion:264 Resp: 320420

Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

265 22.0 17.3 25.9



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

