

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050417\  
 Data File : BF094909.D  
 Acq On : 5 May 2017 10:40  
 Operator : SJ/MA  
 Sample : I2953-04  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 05 11:52:35 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 03 17:24:51 2017  
 Response via : Initial Calibration

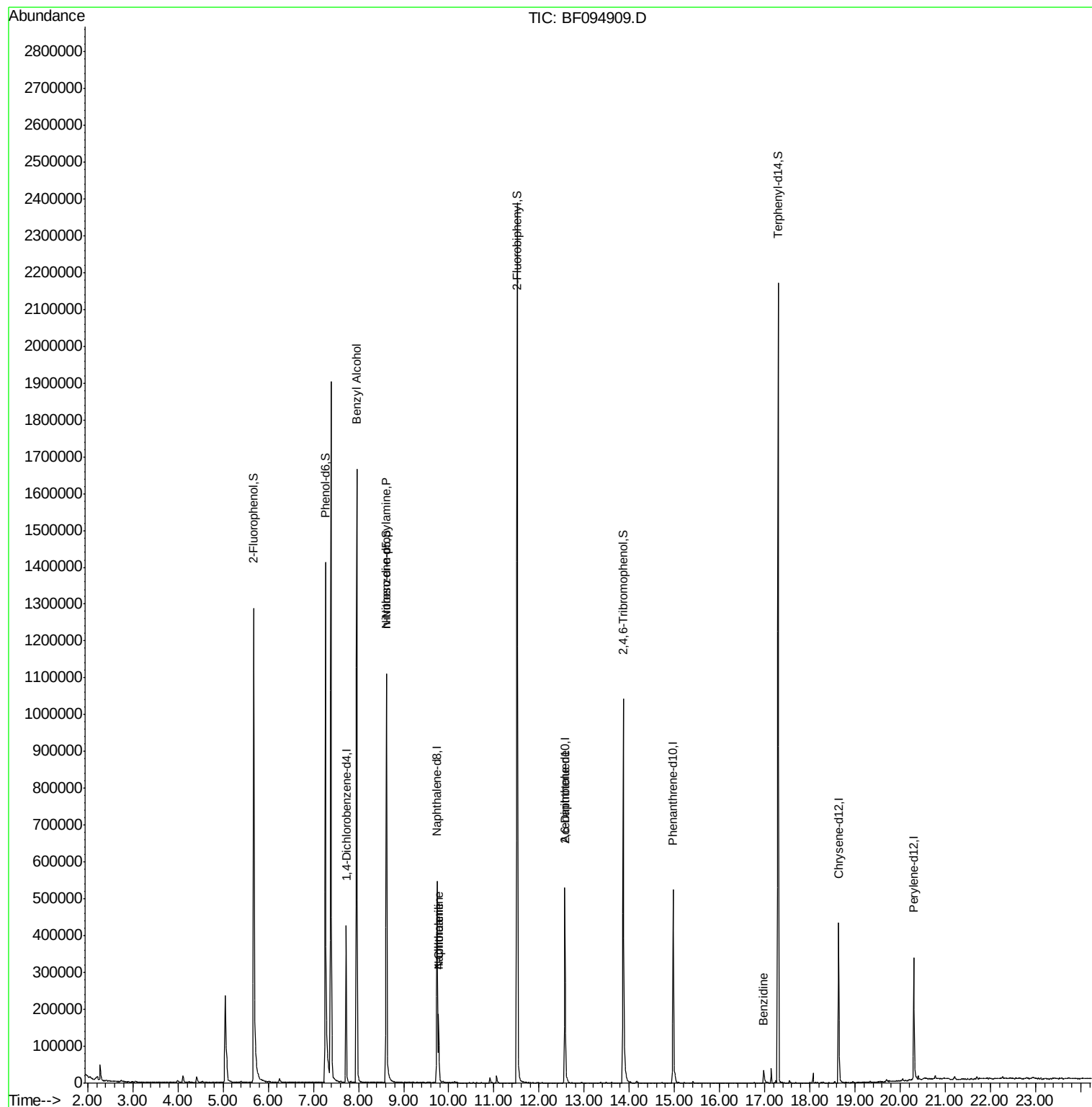
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.72  | 152  | 88595    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 9.74  | 136  | 367337   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 12.57 | 164  | 167490   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 14.97 | 188  | 289868   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 18.64 | 240  | 199454   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 20.30 | 264  | 173353   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.68  | 112  | 630364   | 118.62 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.27  | 99   | 795916   | 124.83 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 8.62  | 82   | 535453   | 91.92  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 13.87 | 330  | 196897   | 143.54 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 11.52 | 172  | 1094503  | 94.06  | ng    | -0.01    |
| 78) Terphenyl-d14              | 17.30 | 244  | 830819   | 91.75  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 7.96  | 79   | 8505     | 2.07   | ng    | # 42     |
| 19) n-Nitroso-di-n-propylamine | 8.62  | 70   | 67807    | 15.72  | ng    | # 77     |
| 31) Naphthalene                | 9.77  | 128  | 123781   | 6.70   | ng    | 98       |
| 33) 4-Chloroaniline            | 9.77  | 127  | 16289    | 2.37   | ng    | # 39     |
| 50) 2,6-Dinitrotoluene         | 12.57 | 165  | 16641    | 5.93   | ng    | # 33     |
| 76) Benzidine                  | 16.98 | 184  | 34664    | 12.13  | ng    | # 94     |

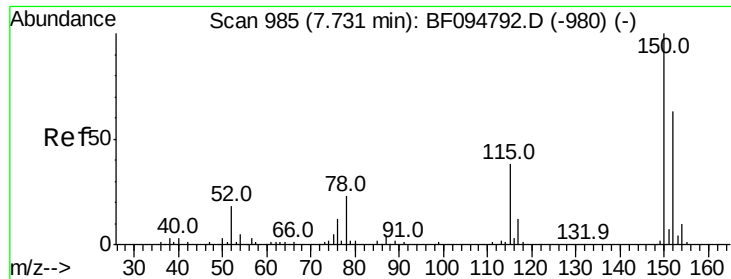
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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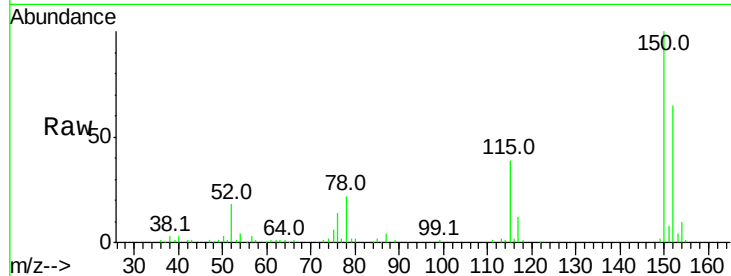


#1

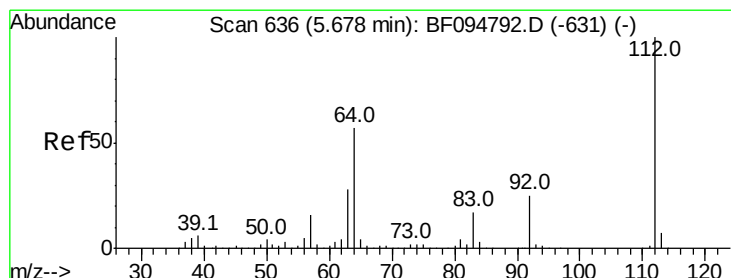
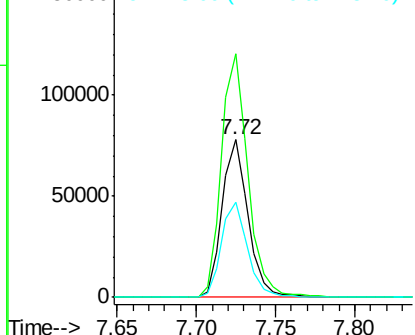
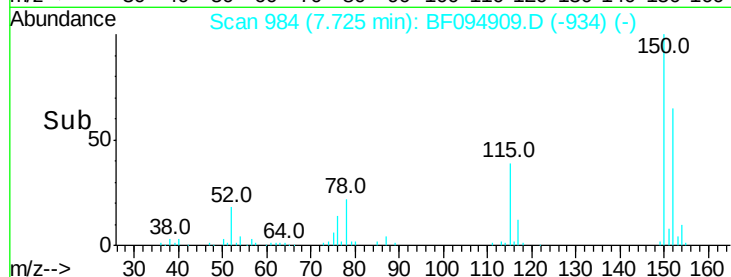
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.72 min Scan# 984  
Delta R.T. -0.01 min  
Lab File: BF094909.D  
Acq: 5 May 2017 10:40

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 88595  
Ion Ratio Lower Upper  
152 100  
150 154.5 126.2 189.2  
115 60.3 52.2 78.2



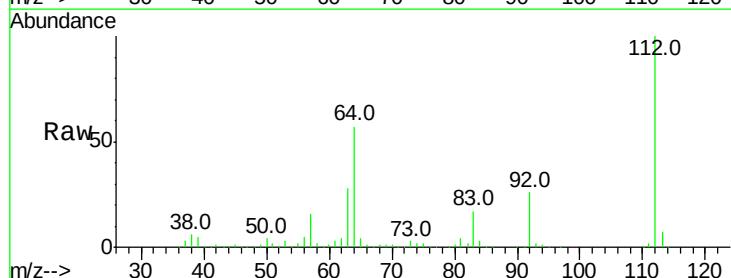
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



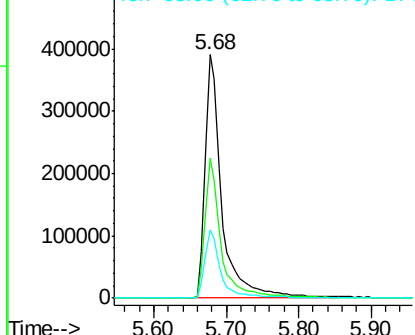
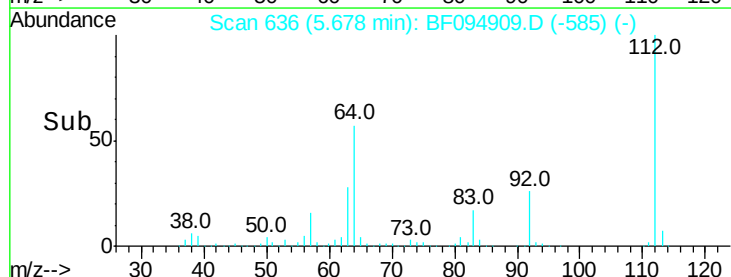
#5

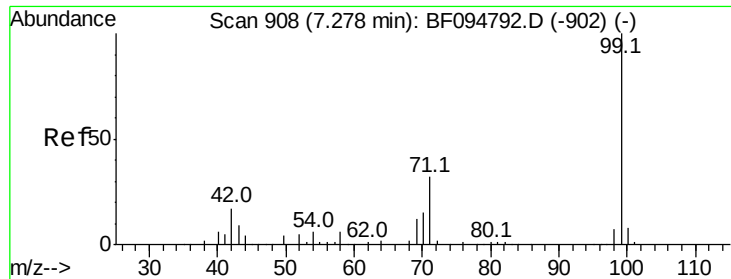
2-Fluorophenol  
Concen: 118.62 ng  
RT: 5.68 min Scan# 636  
Delta R.T. 0.00 min  
Lab File: BF094909.D  
Acq: 5 May 2017 10:40

Tgt Ion:112 Resp: 630364  
Ion Ratio Lower Upper  
112 100  
64 57.3 46.0 69.0  
63 28.1 23.4 35.0



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: 124.83 ng

RT: 7.27 min Scan# 906

Delta R.T. -0.01 min

Lab File: BF094909.D

Acq: 5 May 2017 10:40

Instrument :

BNA\_F

ClientSampleId :

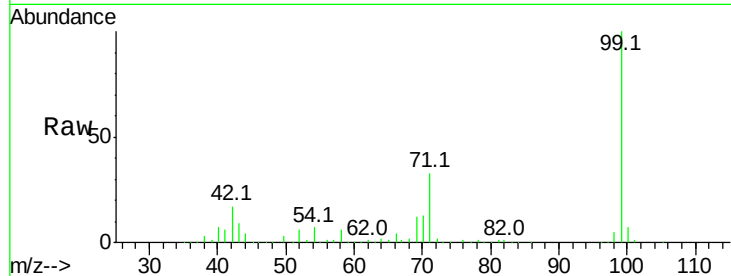
Tot Ion: 99 Resp: 795916

Ion Ratio Lower Upper

99 100

42 16.6 13.5 20.3

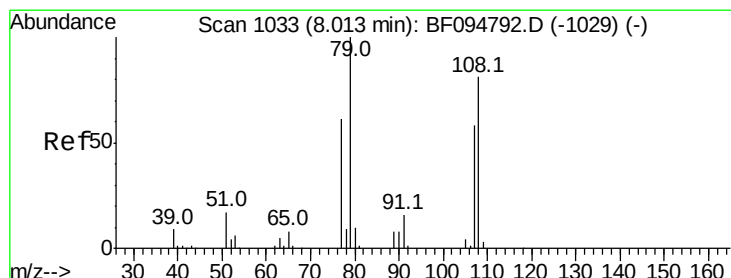
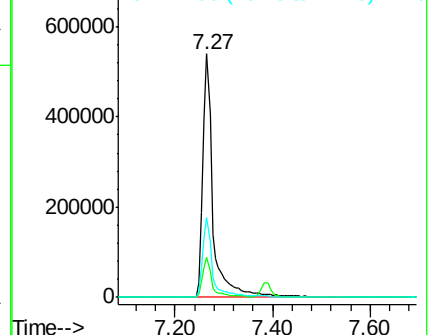
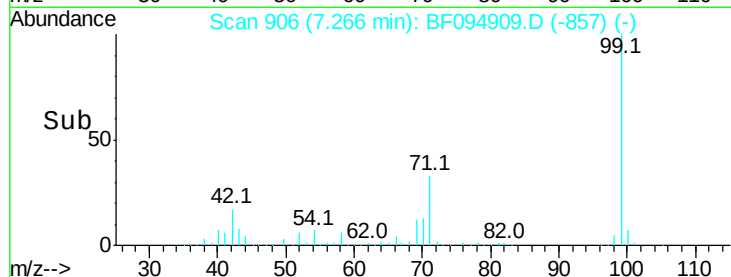
71 32.5 24.5 36.7



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



#15

Benzyl Alcohol

Concen: 2.07 ng

RT: 7.96 min Scan# 1024

Delta R.T. -0.05 min

Lab File: BF094909.D

Acq: 5 May 2017 10:40

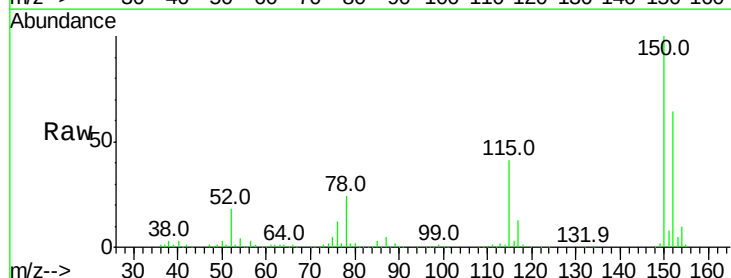
Tgt Ion: 79 Resp: 8505

Ion Ratio Lower Upper

79 100

108 26.2 63.4 95.0#

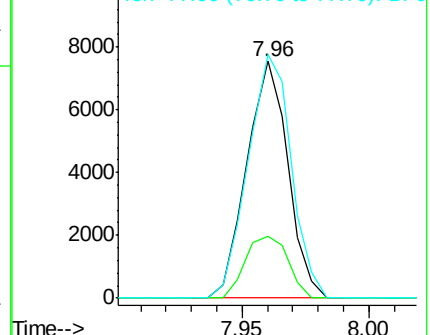
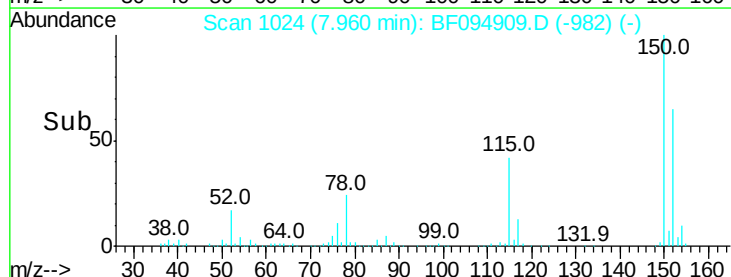
77 102.8 49.2 73.8#

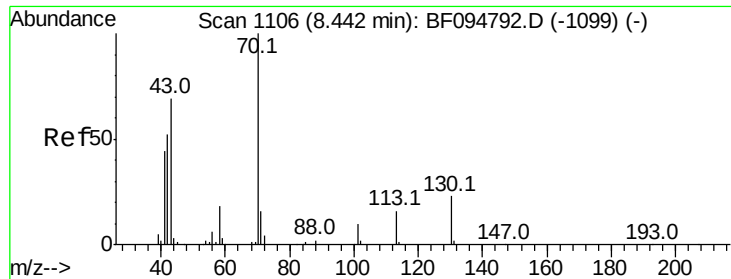


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

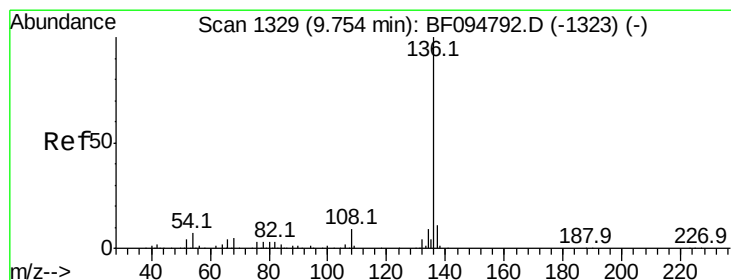
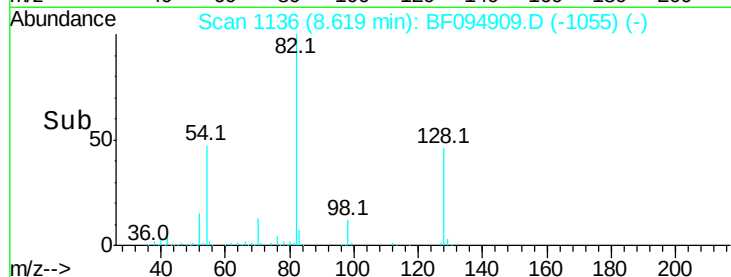
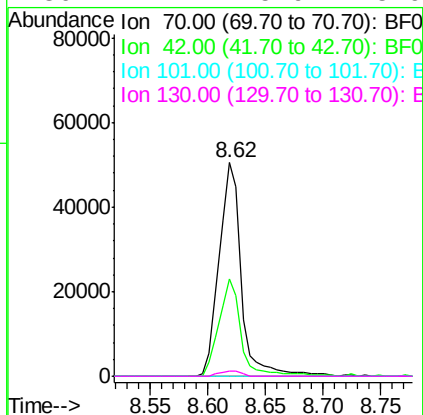
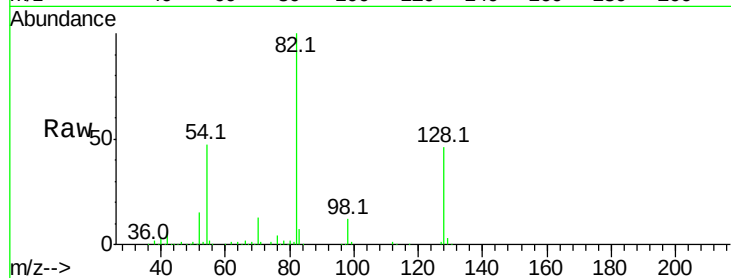




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.72 ng  
RT: 8.62 min Scan# 1136  
Delta R.T. 0.18 min  
Lab File: BF094909.D  
Acq: 5 May 2017 10:40

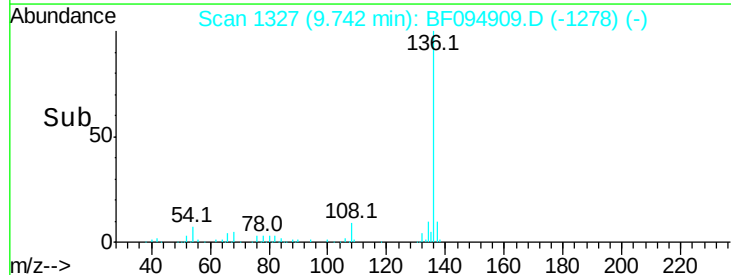
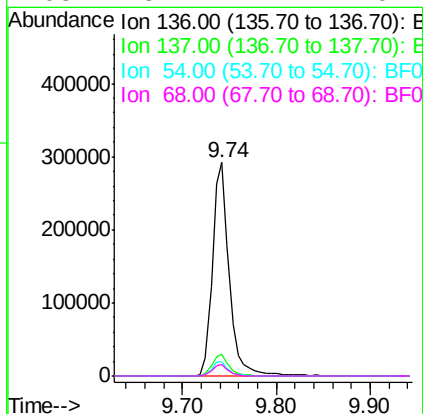
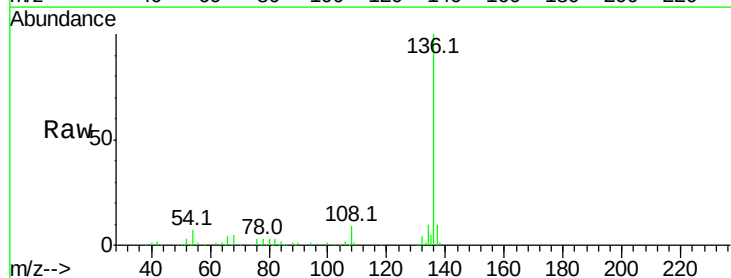
Instrument :  
BNA\_F  
ClientSampleId :

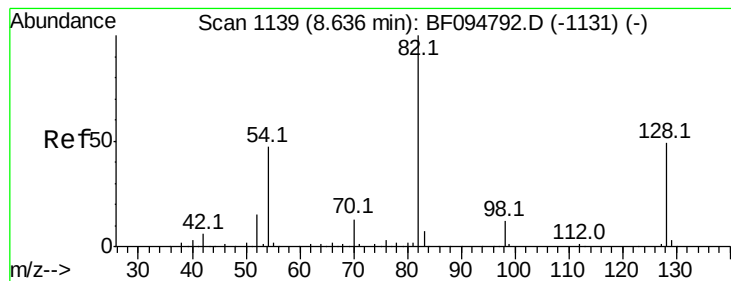
Tot Ion: 70 Resp: 67807  
Ion Ratio Lower Upper  
70 100  
42 45.7 47.2 70.8#  
101 0.0 7.2 10.8#  
130 2.7 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.74 min Scan# 1327  
Delta R.T. -0.01 min  
Lab File: BF094909.D  
Acq: 5 May 2017 10:40

Tgt Ion: 136 Resp: 367337  
Ion Ratio Lower Upper  
136 100  
137 10.3 8.5 12.7  
54 6.6 4.9 7.3  
68 5.2 4.1 6.1





#23

Nitrobenzene-d5

Concen: 91.92 ng

RT: 8.62 min Scan# 1136

Delta R.T. -0.02 min

Lab File: BF094909.D

Acq: 5 May 2017 10:40

Instrument :

BNA\_F

ClientSampleId :

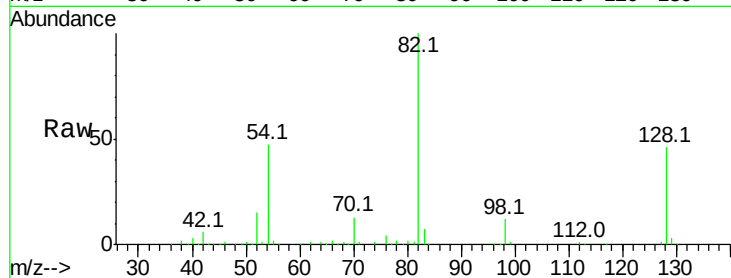
Tot Ion: 82 Resp: 535453

Ion Ratio Lower Upper

82 100

128 46.4 34.0 51.0

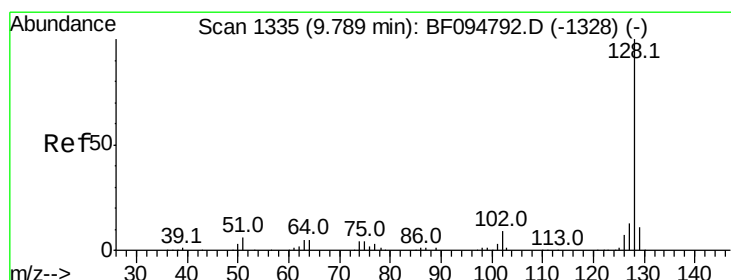
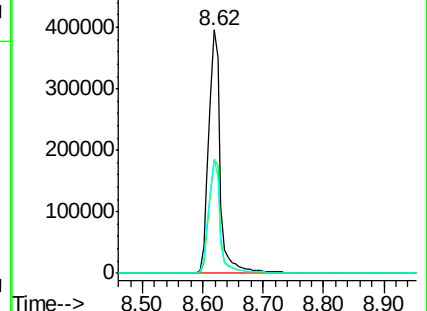
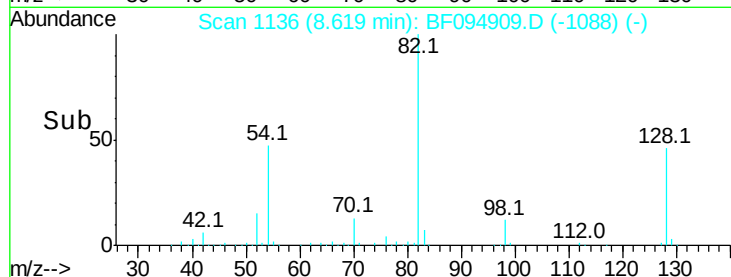
54 47.2 42.2 63.2



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



#31

Naphthalene

Concen: 6.70 ng

RT: 9.77 min Scan# 1332

Delta R.T. -0.02 min

Lab File: BF094909.D

Acq: 5 May 2017 10:40

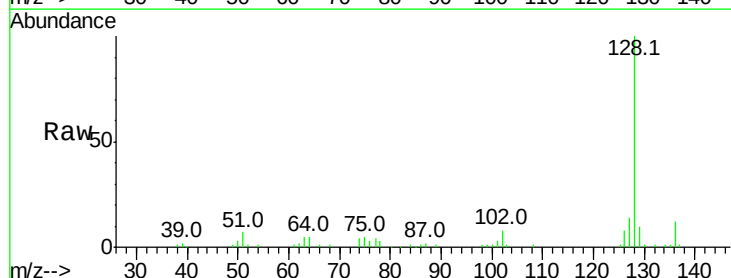
Tgt Ion: 128 Resp: 123781

Ion Ratio Lower Upper

128 100

129 10.1 9.0 13.6

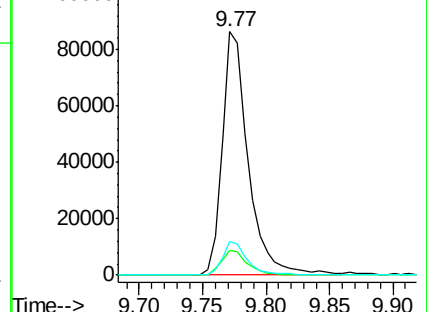
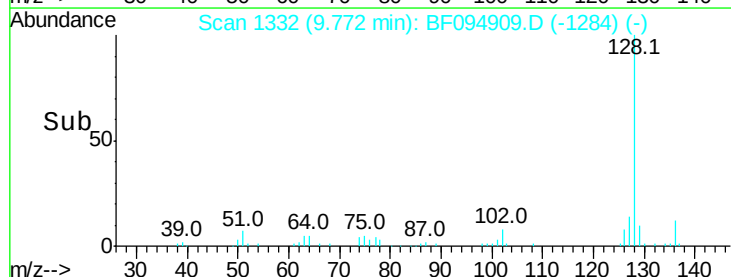
127 13.6 10.8 16.2

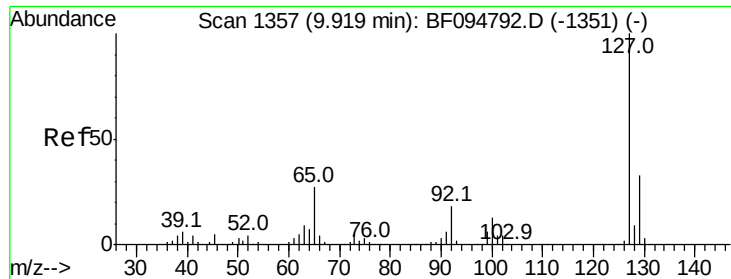


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

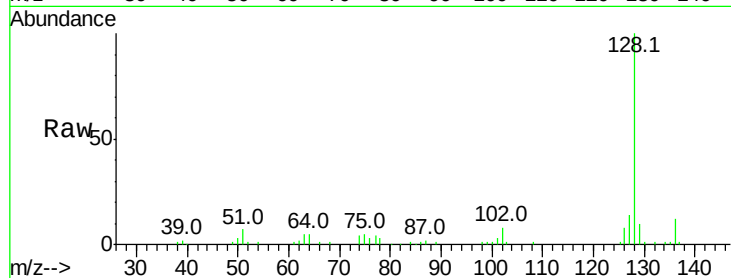




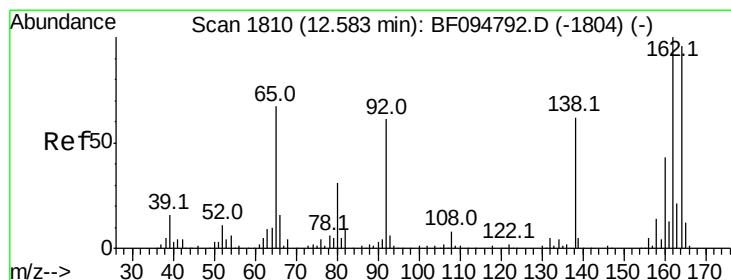
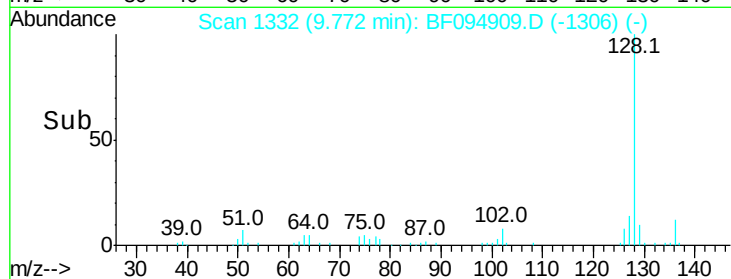
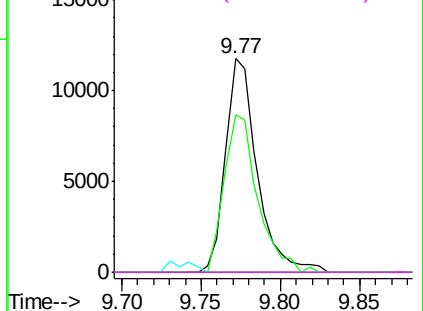
#33  
4-Chloroaniline  
Concen: 2.37 ng  
RT: 9.77 min Scan# 1332  
Delta R.T. -0.15 min  
Lab File: BF094909.D  
Acq: 5 May 2017 10:40

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 127   | Resp: | 16289 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 73.9  | 26.2  | 39.2# |
| 65       | 0.0   | 27.8  | 41.8# |
| 92       | 0.0   | 16.8  | 25.2# |

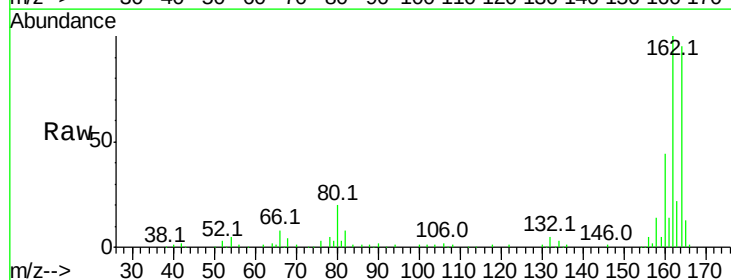


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0

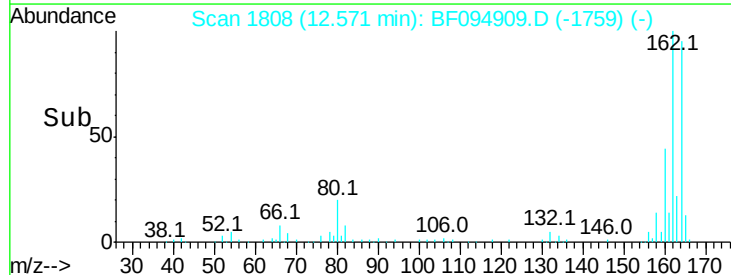
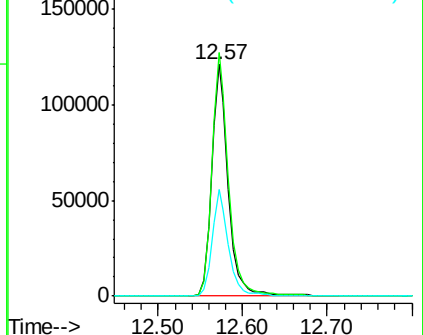


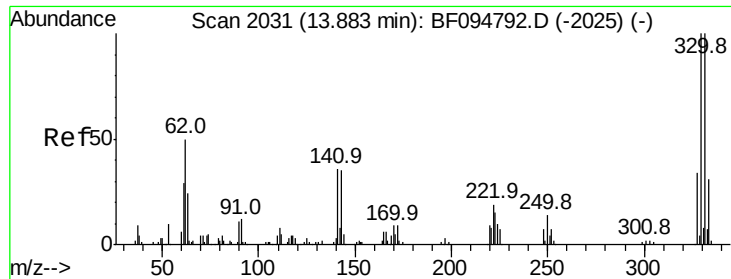
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 12.57 min Scan# 1808  
Delta R.T. -0.01 min  
Lab File: BF094909.D  
Acq: 5 May 2017 10:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 167490 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 162      | 105.1 | 82.6  | 123.8  |
| 160      | 46.2  | 36.2  | 54.2   |



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

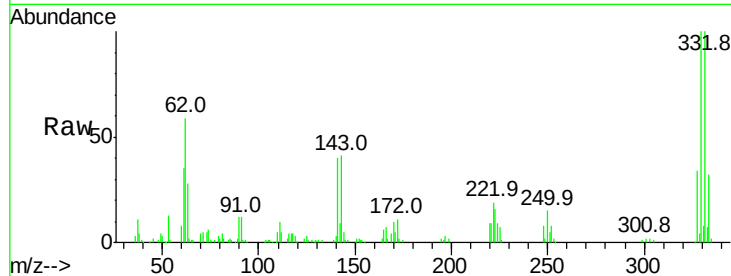




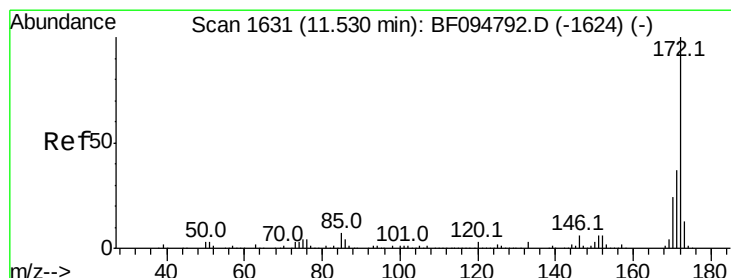
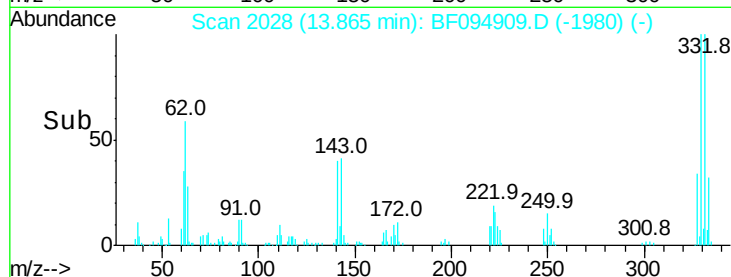
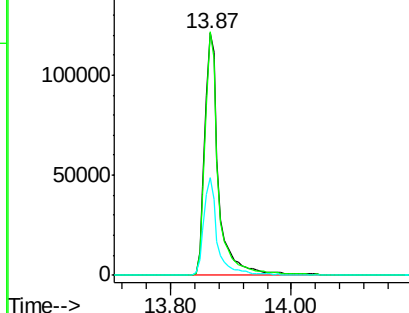
#41  
 2,4,6-Tribromophenol  
 Concen: 143.54 ng  
 RT: 13.87 min Scan# 2028  
 Delta R.T. -0.02 min  
 Lab File: BF094909.D  
 Acq: 5 May 2017 10:40

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.2  | 76.6  | 115.0 |
| 141     | 38.4  | 31.4  | 47.2  |

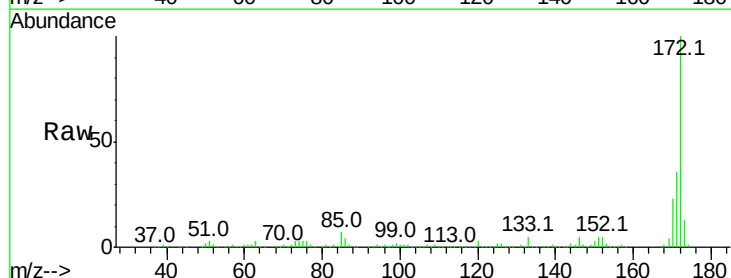


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

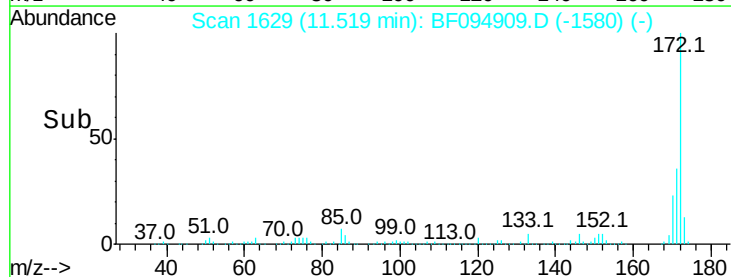
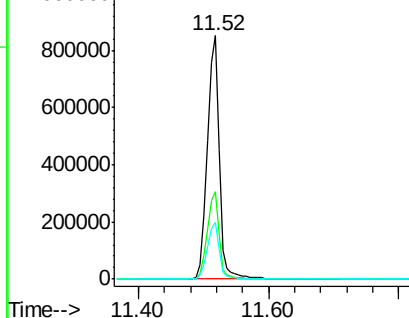


#44  
 2-Fluorobiphenyl  
 Concen: 94.06 ng  
 RT: 11.52 min Scan# 1629  
 Delta R.T. -0.01 min  
 Lab File: BF094909.D  
 Acq: 5 May 2017 10:40

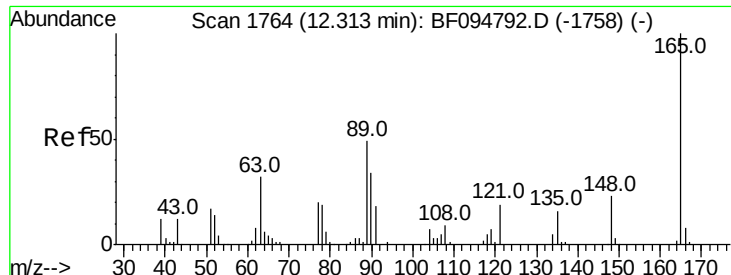
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.6  | 44.4  |
| 170     | 23.4  | 19.8  | 29.8  |



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



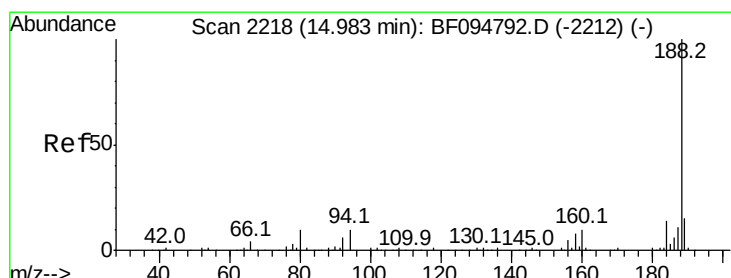
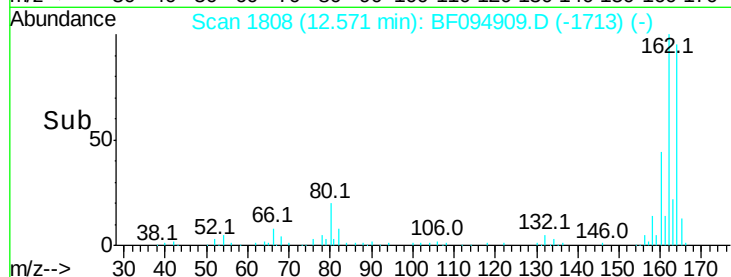
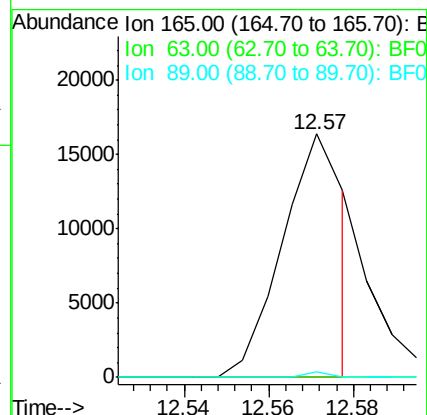
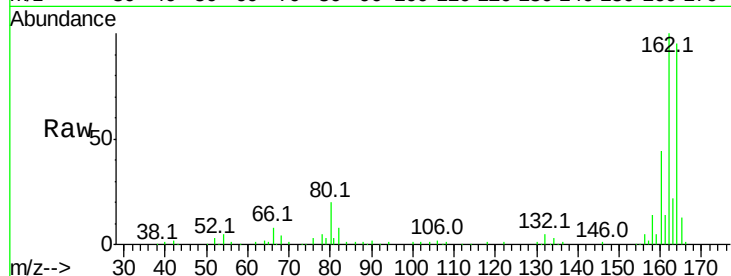




#50  
 2,6-Dinitrotoluene  
 Concen: 5.93 ng  
 RT: 12.57 min Scan# 1808  
 Delta R.T. 0.26 min  
 Lab File: BF094909.D  
 Acq: 5 May 2017 10:40

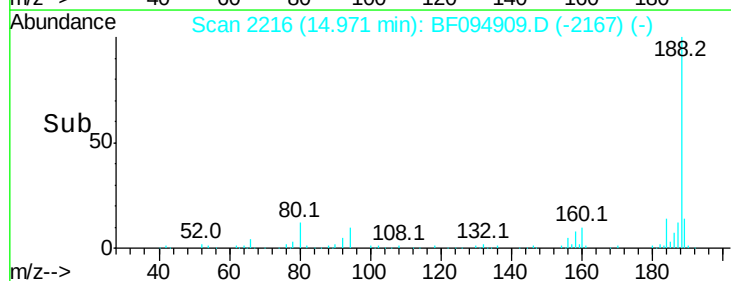
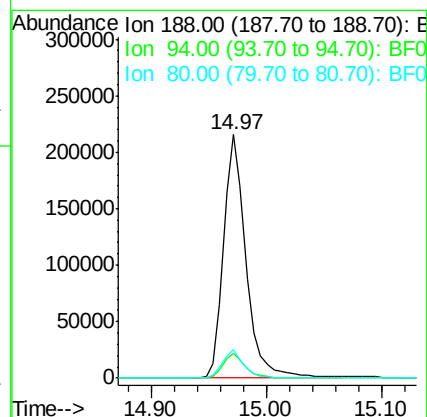
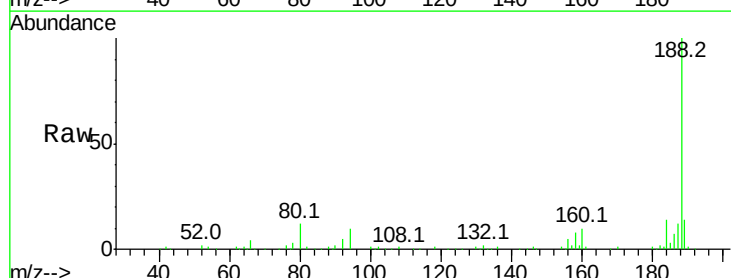
Instrument :  
 BNA\_F  
 ClientSampled :

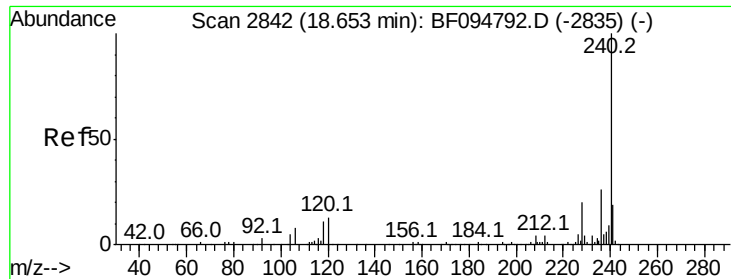
Tot Ion:165 Resp: 16641  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 34.3 51.5#  
 89 2.0 37.1 55.7#



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 14.97 min Scan# 2216  
 Delta R.T. -0.01 min  
 Lab File: BF094909.D  
 Acq: 5 May 2017 10:40

Tgt Ion:188 Resp: 289868  
 Ion Ratio Lower Upper  
 188 100  
 94 9.9 9.4 14.2  
 80 11.5 10.2 15.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.64 min Scan# 2839

Delta R.T. -0.02 min

Lab File: BF094909.D

Acq: 5 May 2017 10:40

Instrument :

BNA\_F

ClientSampleId :

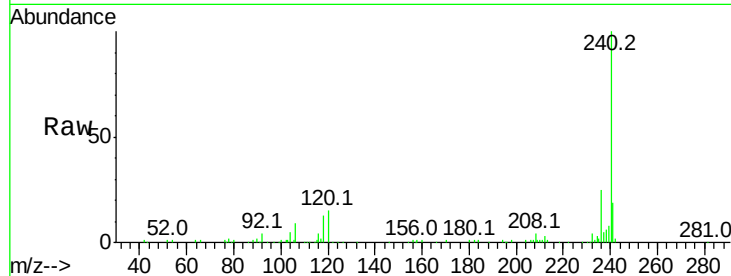
Tot Ion:240 Resp: 199454

Ion Ratio Lower Upper

240 100

120 14.9 5.8 8.8#

236 25.1 20.5 30.7



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

18.64

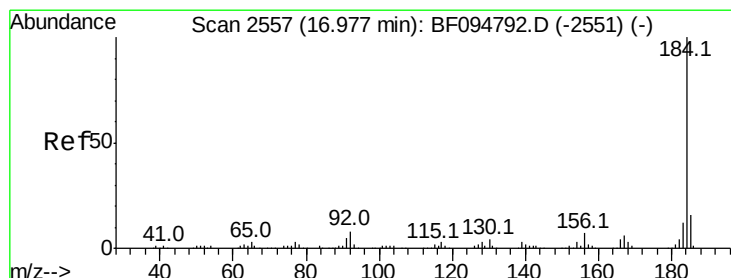
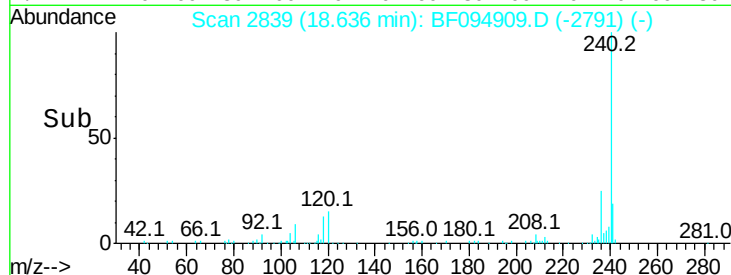
150000

100000

50000

0

Time-->



#76

Benzidine

Concen: 12.13 ng

RT: 16.98 min Scan# 2557

Delta R.T. 0.00 min

Lab File: BF094909.D

Acq: 5 May 2017 10:40

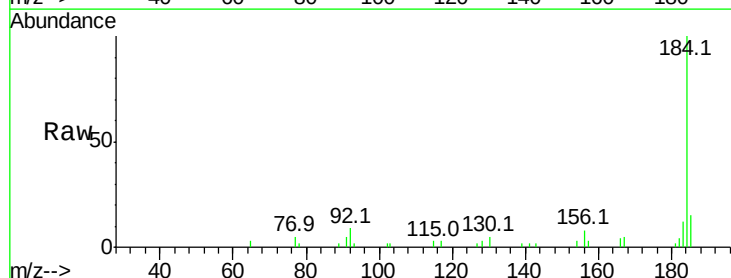
Tgt Ion:184 Resp: 34664

Ion Ratio Lower Upper

184 100

185 15.3 15.5 23.3#

183 11.8 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

16.98

20000

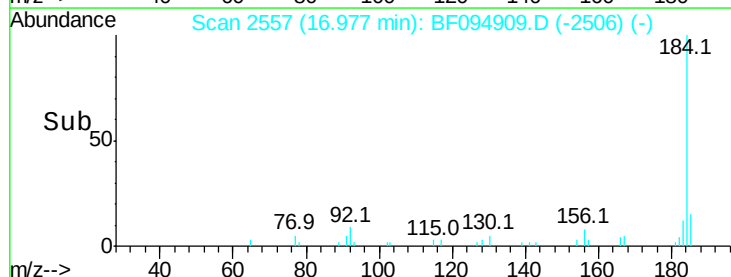
15000

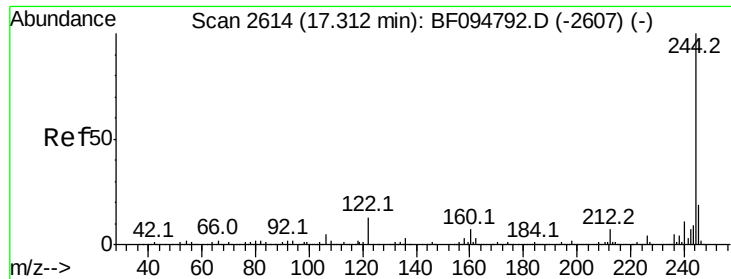
10000

5000

0

Time-->

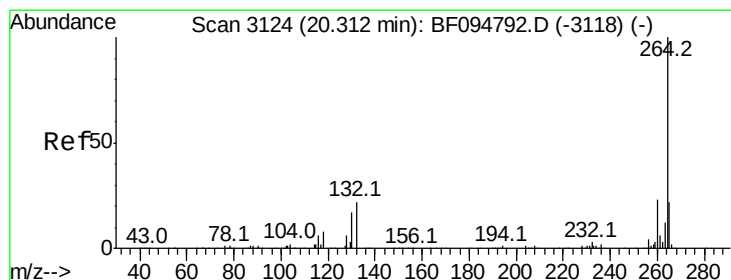
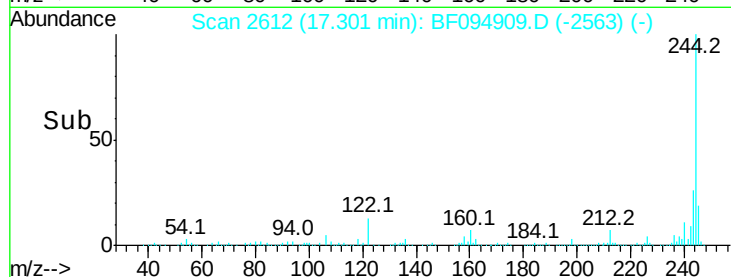
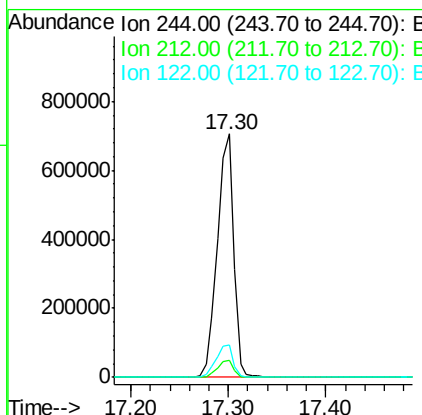
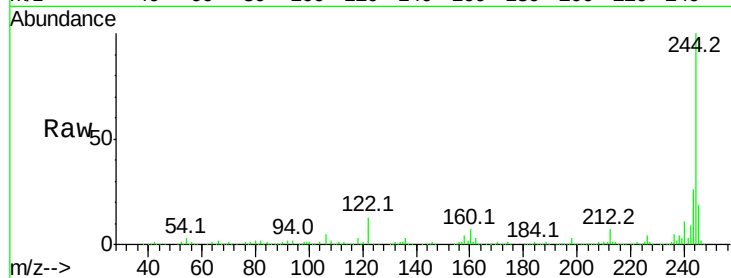




#78  
 Terphenyl-d14  
 Concen: 91.75 ng  
 RT: 17.30 min Scan# 2612  
 Delta R.T. -0.01 min  
 Lab File: BF094909.D  
 Acq: 5 May 2017 10:40

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:244 Resp: 830819  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.0 9.0  
 122 13.3 10.3 15.5



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 20.30 min Scan# 3122  
 Delta R.T. -0.01 min  
 Lab File: BF094909.D  
 Acq: 5 May 2017 10:40

Tgt Ion:264 Resp: 173353  
 Ion Ratio Lower Upper  
 264 100  
 260 22.9 19.5 29.3  
 265 20.2 17.2 25.8

