

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112316\  
 Data File : BF091293.D  
 Acq On : 23 Nov 2016 23:43  
 Operator : UM/SJ  
 Sample : H5740-09  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04(5-6)

Quant Time: Nov 24 00:50:58 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 23 13:22:53 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 197700   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 839049   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 431337   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 695808   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.03 | 240  | 492616   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.47 | 264  | 461645   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.49  | 112  | 1442280  | 117.21 | ng    | 0.02     |
| 7) Phenol-d6                | 6.51  | 99   | 1748872  | 110.62 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 1098095  | 75.34  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330  | 419853   | 96.52  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.24  | 172  | 1708201  | 64.85  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.99 | 244  | 1328323  | 61.58  | ng    | 0.00     |

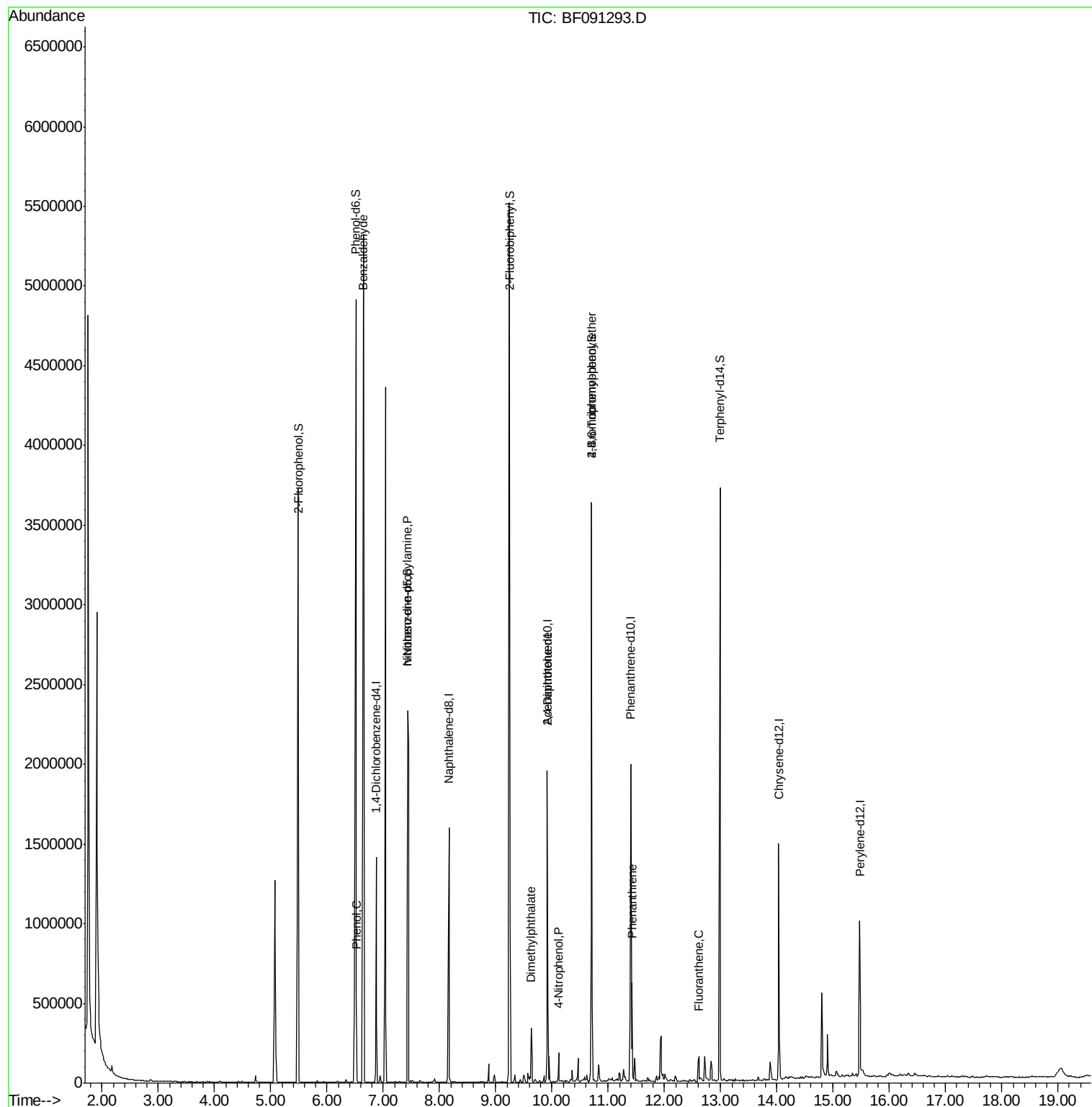
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 9) Benzaldehyde                | 6.65  | 77   | 34362    | 2.96  | ng    | 85     |
| 10) Phenol                     | 6.52  | 94   | 136289   | 7.73  | ng    | 80     |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 145006   | 14.62 | ng    | # 78   |
| 49) Dimethylphthalate          | 9.63  | 163  | 146760   | 5.45  | ng    | 98     |
| 55) 4-Nitrophenol              | 10.12 | 139  | 20235    | 4.44  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165  | 58000    | 7.79  | ng    | # 34   |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248  | 25768    | 3.39  | ng    | # 1    |
| 70) Phenanthrene               | 11.42 | 178  | 224605   | 6.22  | ng    | 98     |
| 74) Fluoranthene               | 12.61 | 202  | 90721    | 2.47  | ng    | 96     |

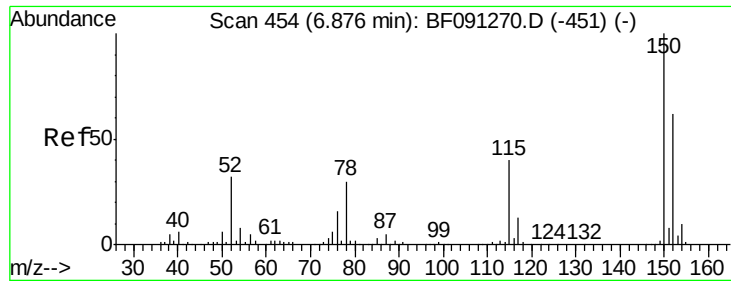
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF112316\  
Data File : BF091293.D  
Acq On : 23 Nov 2016 23:43  
Operator : UM/SJ  
Sample : H5740-09  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04(5-6)

Quant Time: Nov 24 00:50:58 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 23 13:22:53 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.88 min Scan# 454

Delta R.T. 0.00 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

Instrument :

BNA\_F

ClientSampleId :

SB-04(5-6)

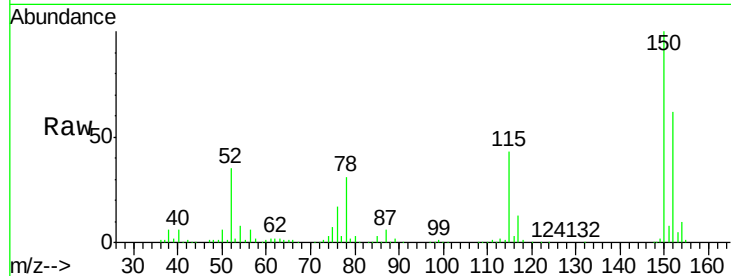
Tgt Ion:152 Resp: 197700

Ion Ratio Lower Upper

152 100

150 160.7 122.5 183.7

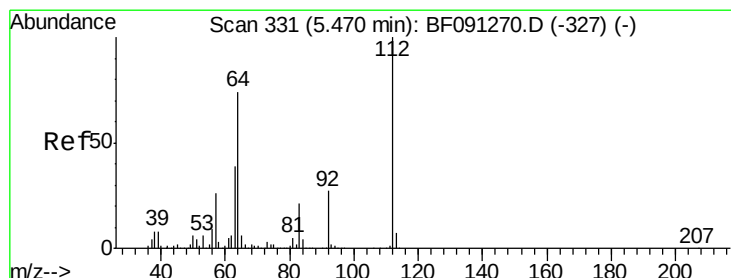
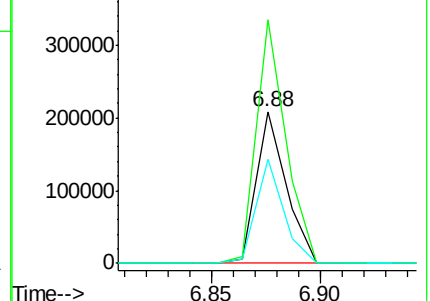
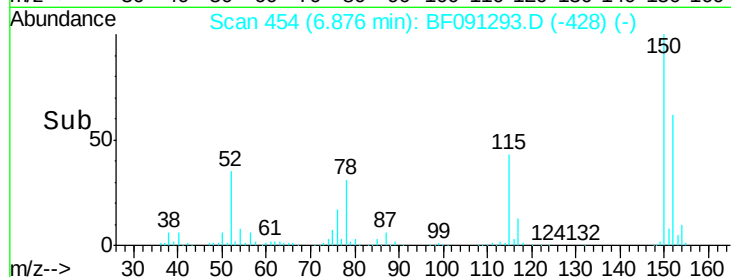
115 68.3 51.8 77.8



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: 117.21 ng

RT: 5.49 min Scan# 333

Delta R.T. 0.02 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

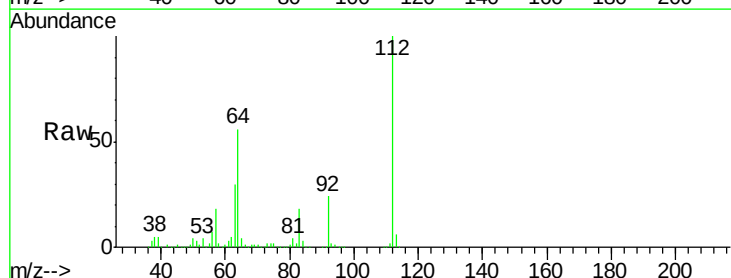
Tgt Ion:112 Resp: 1442280

Ion Ratio Lower Upper

112 100

64 55.7 61.5 92.3#

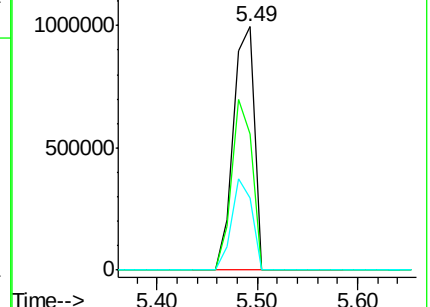
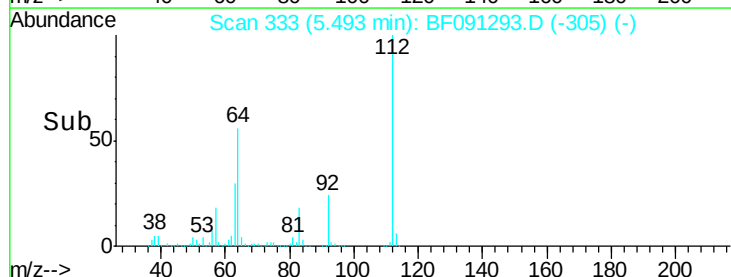
63 29.8 33.3 49.9#

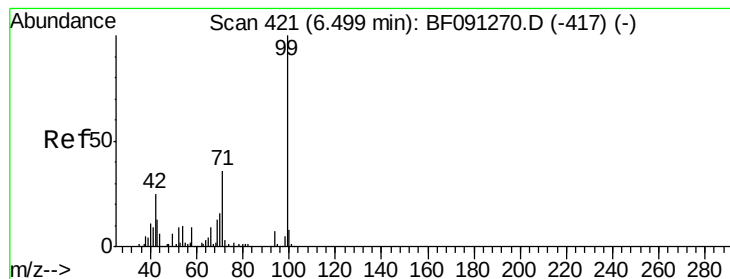


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 110.62 ng

RT: 6.51 min Scan# 422

Delta R.T. 0.01 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

Instrument :

BNA\_F

ClientSampleId :

SB-04(5-6)

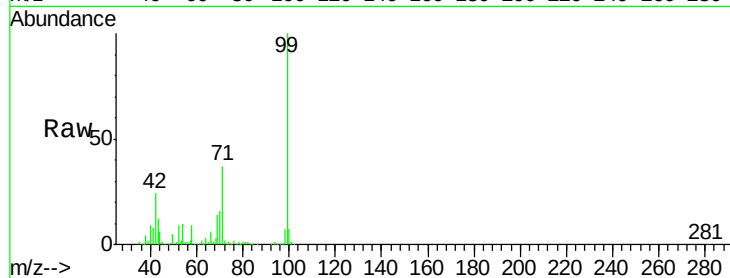
Tgt Ion: 99 Resp: 1748872

Ion Ratio Lower Upper

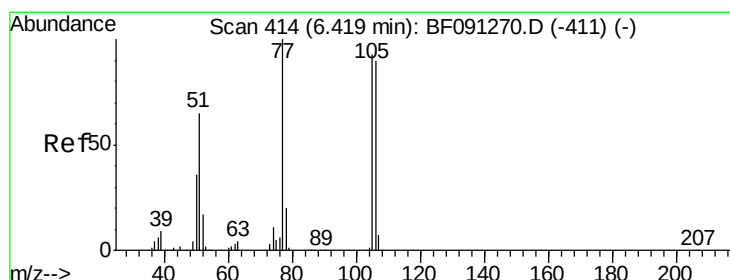
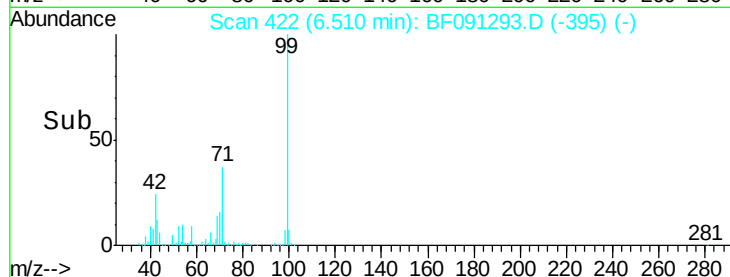
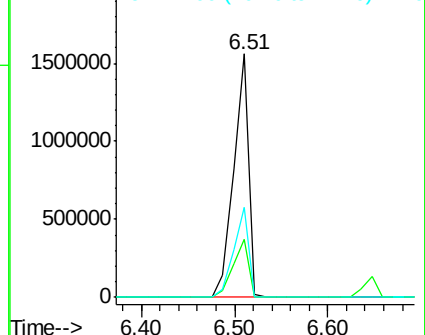
99 100

42 23.8 20.6 31.0

71 37.2 29.9 44.9



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: 2.96 ng

RT: 6.65 min Scan# 434

Delta R.T. 0.23 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

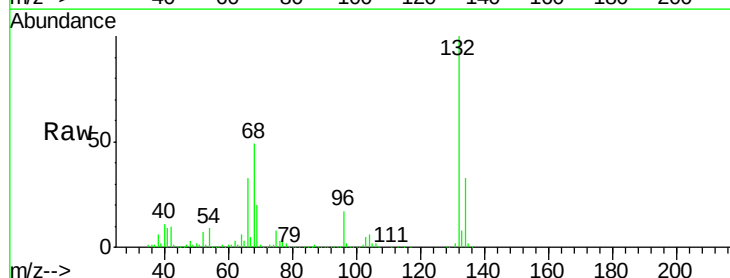
Tgt Ion: 77 Resp: 34362

Ion Ratio Lower Upper

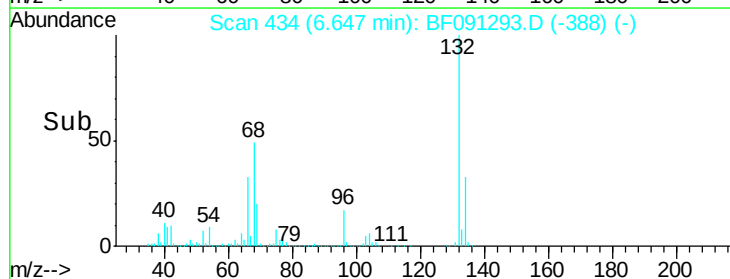
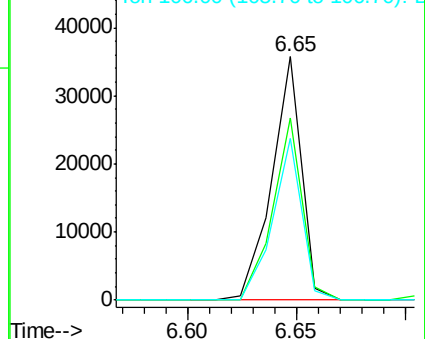
77 100

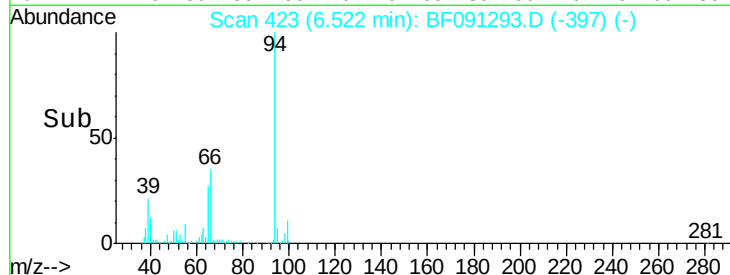
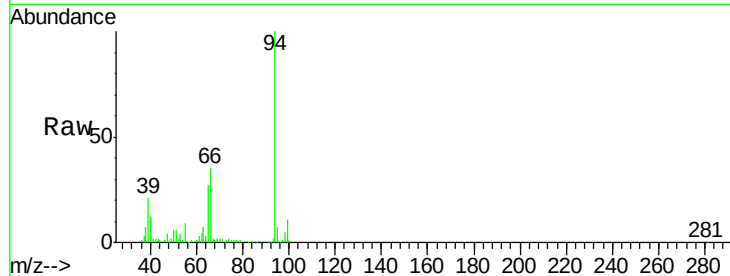
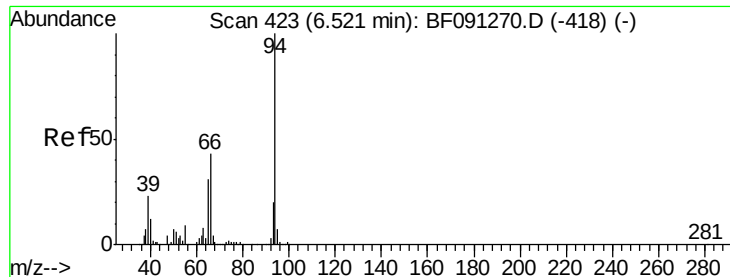
105 74.7 66.4 106.4

106 66.2 60.9 100.9



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





#10

Phenol

Concen: 7.73 ng

RT: 6.52 min Scan# 423

Delta R.T. 0.00 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

Instrument :

BNA\_F

ClientSampleId :

SB-04(5-6)

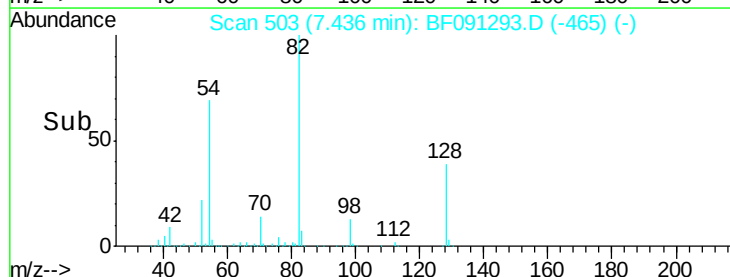
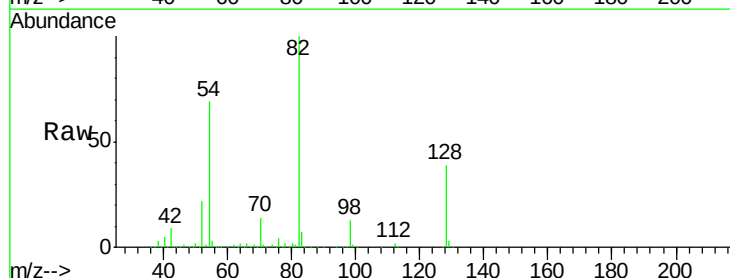
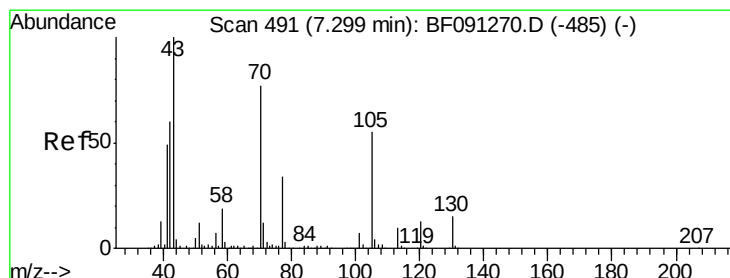
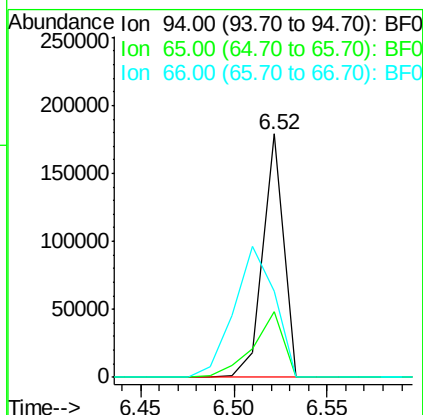
Tgt Ion: 94 Resp: 136289

Ion Ratio Lower Upper

94 100

65 27.2 16.9 56.9

66 35.3 30.6 70.6



#19

n-Nitroso-di-n-propylamine

Concen: 14.62 ng

RT: 7.44 min Scan# 503

Delta R.T. 0.14 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

Tgt Ion: 70 Resp: 145006

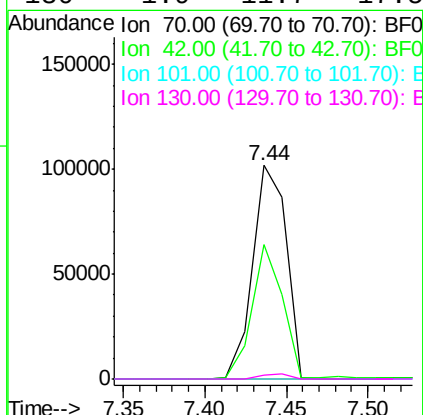
Ion Ratio Lower Upper

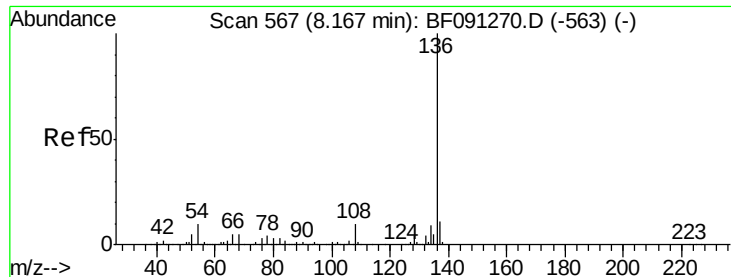
70 100

42 62.8 64.8 97.2#

101 0.0 6.2 9.4#

130 1.9 11.7 17.5#

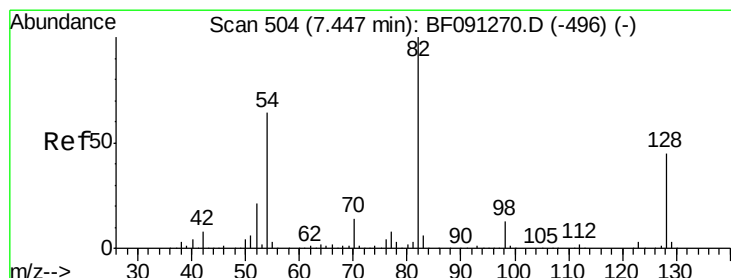
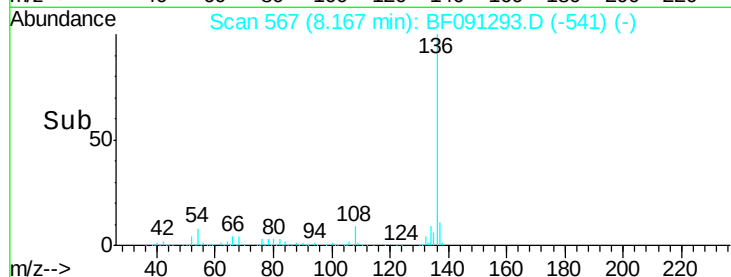
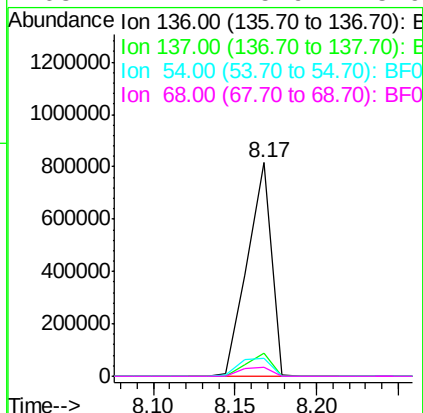
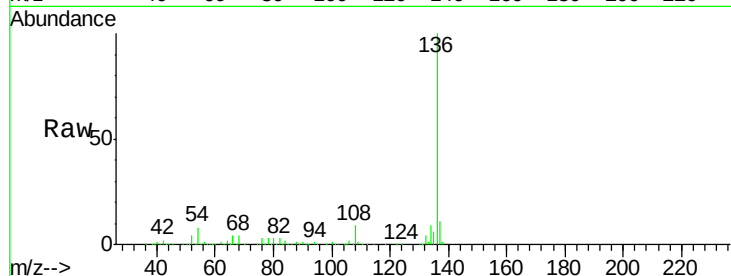




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.17 min Scan# 567  
Delta R.T. 0.00 min  
Lab File: BF091293.D  
Acq: 23 Nov 2016 23:43

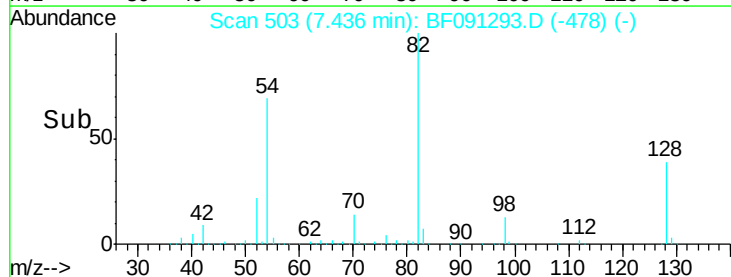
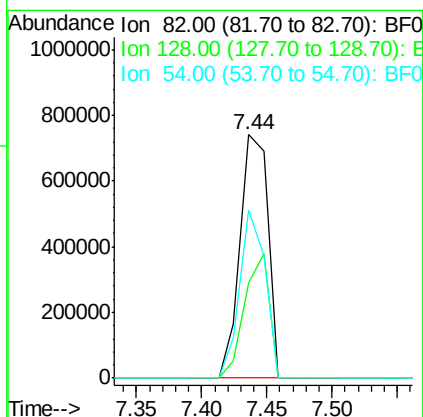
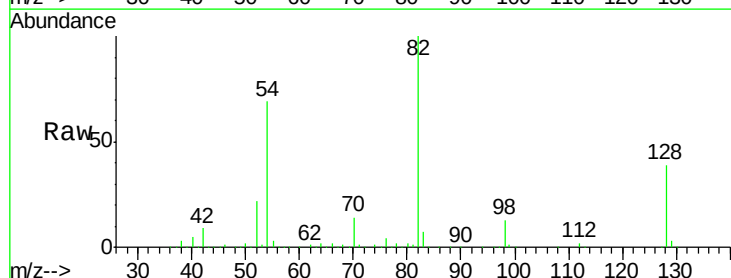
Instrument :  
BNA\_F  
ClientSampleId :  
SB-04(5-6)

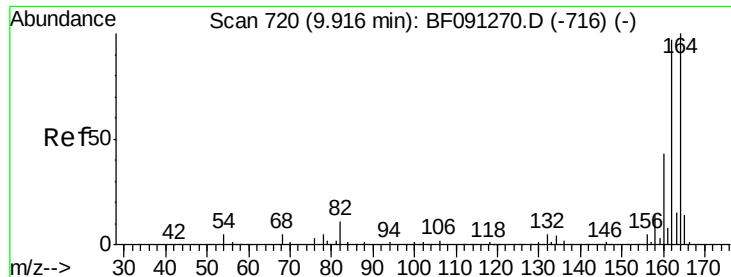
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 839049 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 9.1   | 13.7   |
| 54       | 8.4   | 9.1   | 13.7#  |
| 68       | 4.4   | 5.9   | 8.9#   |



#23  
Nitrobenzene-d5  
Concen: 75.34 ng  
RT: 7.44 min Scan# 503  
Delta R.T. -0.01 min  
Lab File: BF091293.D  
Acq: 23 Nov 2016 23:43

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1098095 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 38.8  | 31.8  | 47.6    |
| 54       | 69.2  | 49.1  | 73.7    |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.92 min Scan# 720

Delta R.T. 0.00 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

Instrument :

BNA\_F

ClientSampleId :

SB-04(5-6)

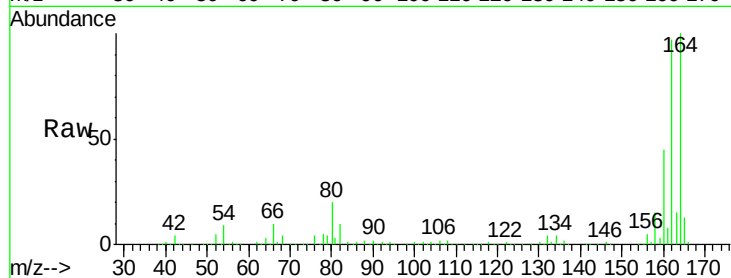
Tgt Ion:164 Resp: 431337

Ion Ratio Lower Upper

164 100

162 96.7 82.6 124.0

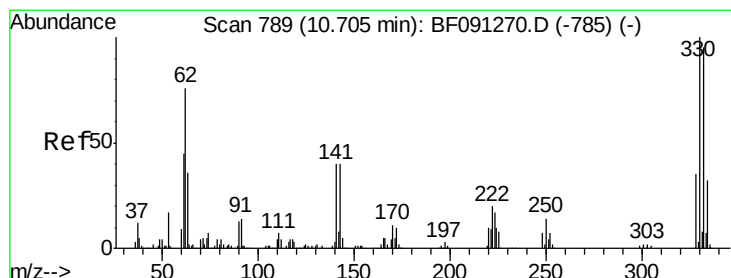
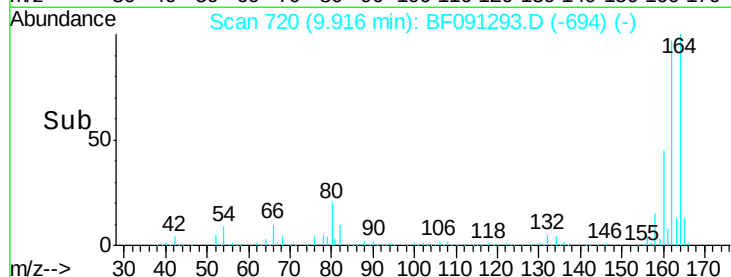
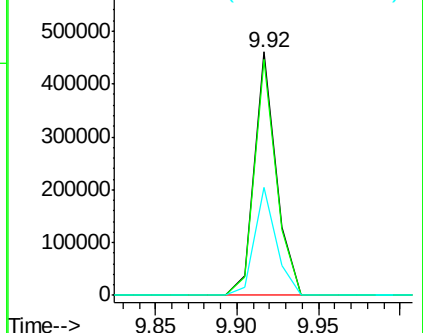
160 44.5 36.7 55.1



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: 96.52 ng

RT: 10.70 min Scan# 789

Delta R.T. 0.00 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

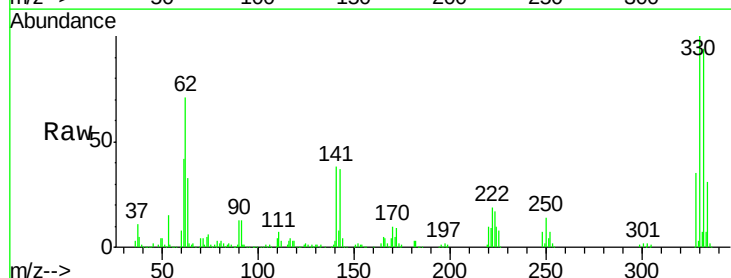
Tgt Ion:330 Resp: 419853

Ion Ratio Lower Upper

330 100

332 94.9 76.2 114.4

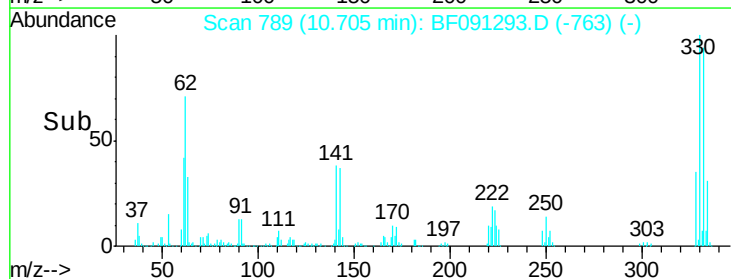
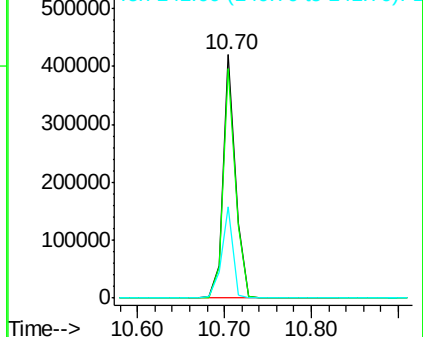
141 34.6 33.6 50.4

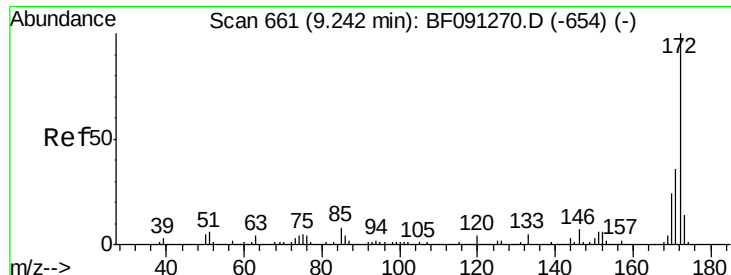


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

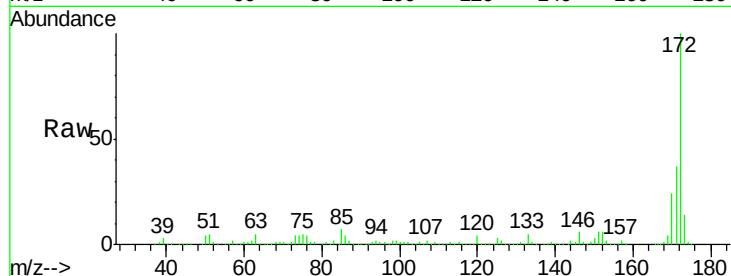




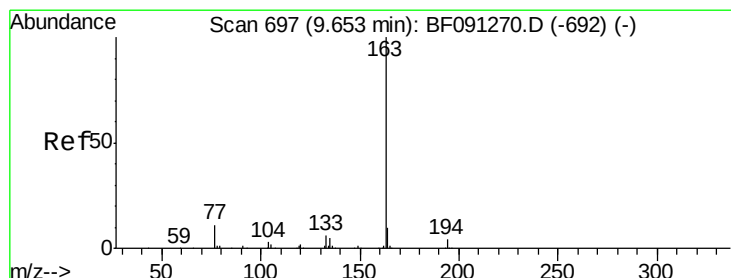
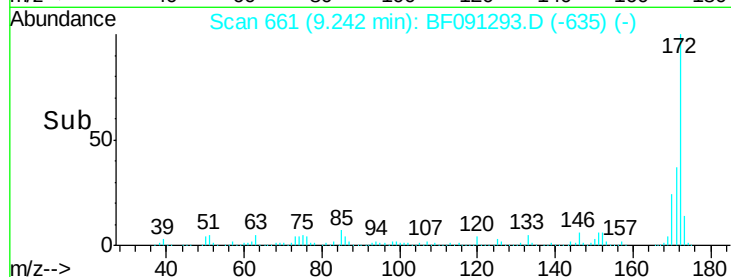
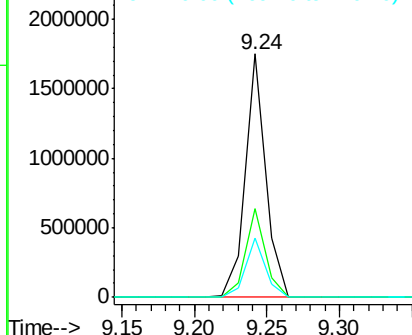
#44  
 2-Fluorobiphenyl  
 Concen: 64.85 ng  
 RT: 9.24 min Scan# 661  
 Delta R.T. 0.00 min  
 Lab File: BF091293.D  
 Acq: 23 Nov 2016 23:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04(5-6)

Tgt Ion:172 Resp: 1708201  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.4 44.0  
 170 24.4 19.7 29.5

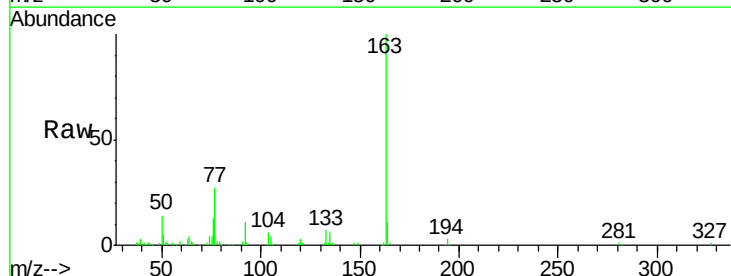


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

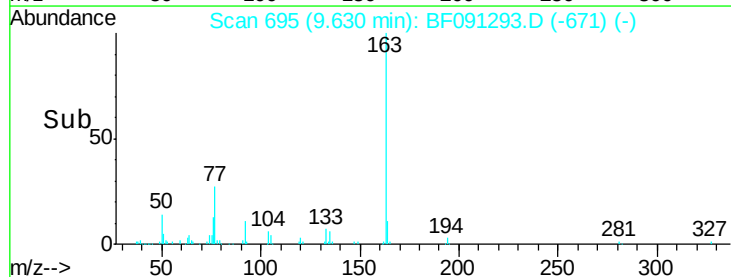
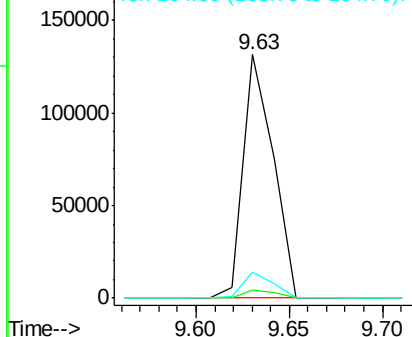


#49  
 Dimethylphthalate  
 Concen: 5.45 ng  
 RT: 9.63 min Scan# 695  
 Delta R.T. -0.02 min  
 Lab File: BF091293.D  
 Acq: 23 Nov 2016 23:43

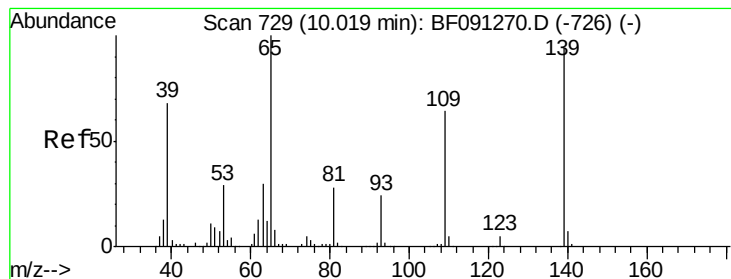
Tgt Ion:163 Resp: 146760  
 Ion Ratio Lower Upper  
 163 100  
 194 3.4 3.0 4.4  
 164 10.6 7.8 11.8



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







#55

4-Nitrophenol

Concen: 4.44 ng

RT: 10.12 min Scan# 738

Delta R.T. 0.10 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

Instrument :

BNA\_F

ClientSampleId :

SB-04(5-6)

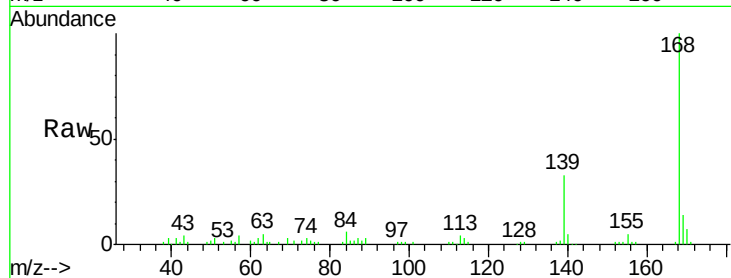
Tgt Ion:139 Resp: 20235

Ion Ratio Lower Upper

139 100

109 0.0 54.9 94.9#

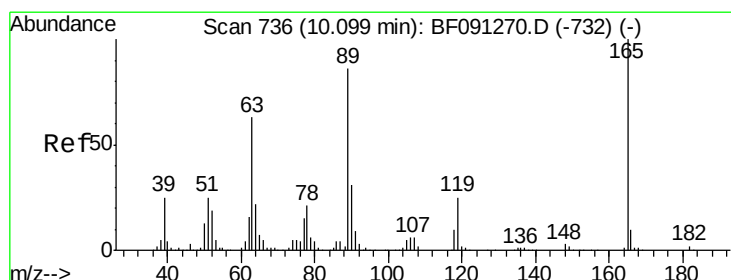
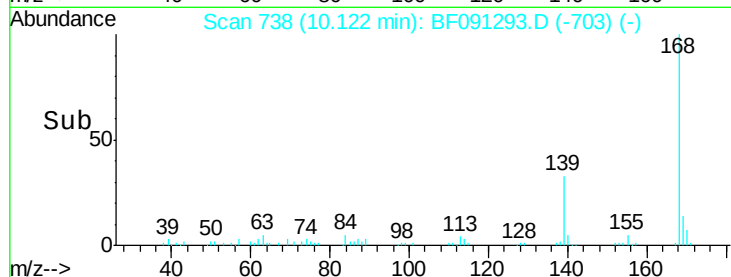
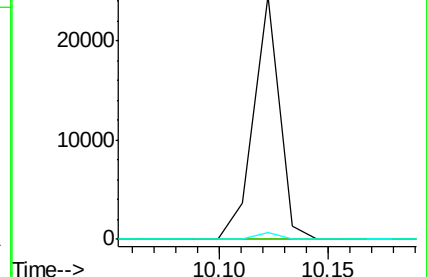
65 3.0 102.2 142.2#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 7.79 ng

RT: 9.92 min Scan# 720

Delta R.T. -0.18 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

Tgt Ion:165 Resp: 58000

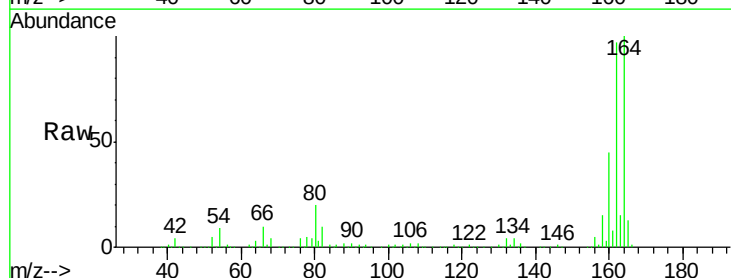
Ion Ratio Lower Upper

165 100

63 1.4 29.0 43.4#

89 1.3 43.1 64.7#

182 0.0 1.9 2.9#

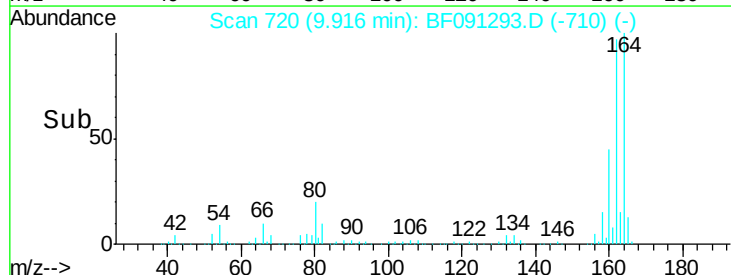
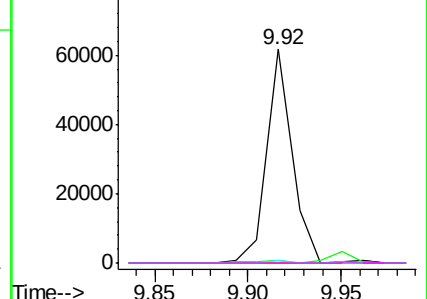


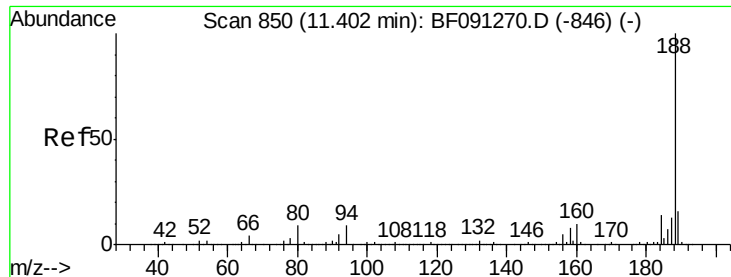
Abundance Ion 165.00 (164.70 to 165.70): E

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

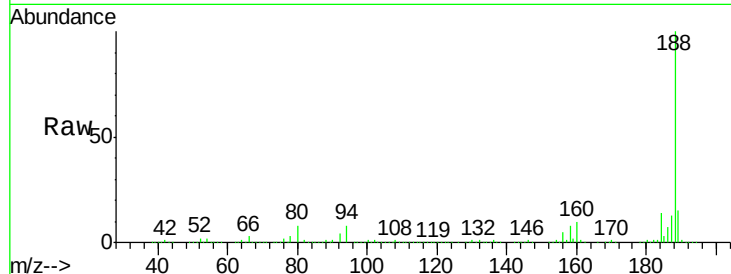




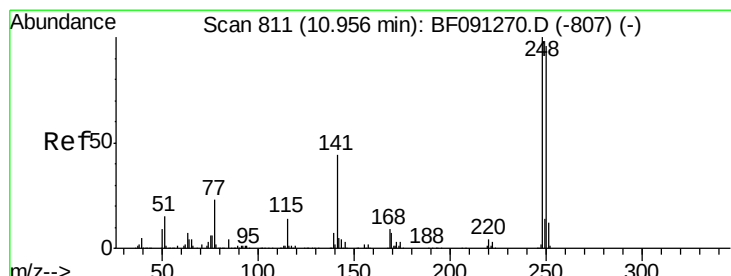
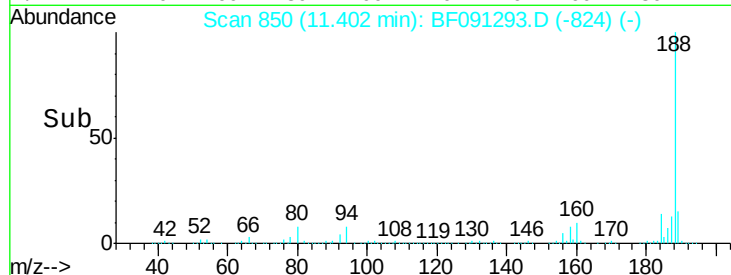
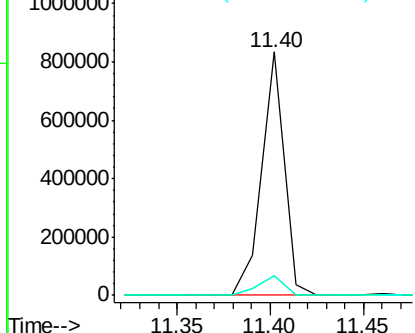
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.40 min Scan# 850  
 Delta R.T. 0.00 min  
 Lab File: BF091293.D  
 Acq: 23 Nov 2016 23:43

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-04(5-6)

Tgt Ion:188 Resp: 695808  
 Ion Ratio Lower Upper  
 188 100  
 94 7.8 9.2 13.8#  
 80 8.1 10.5 15.7#

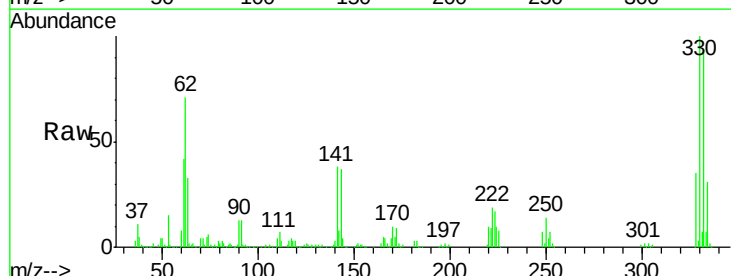


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

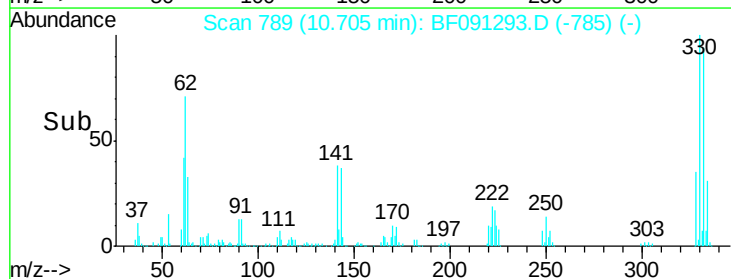
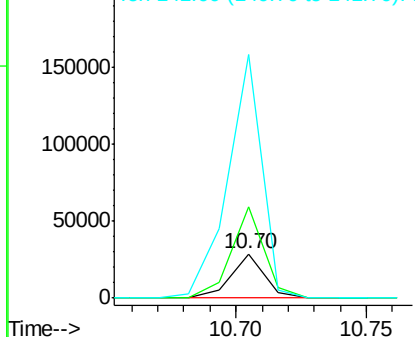


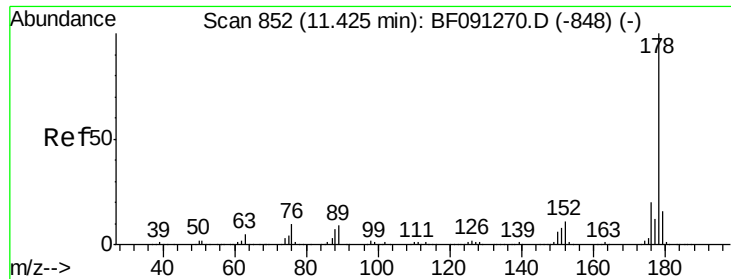
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.39 ng  
 RT: 10.70 min Scan# 789  
 Delta R.T. -0.25 min  
 Lab File: BF091293.D  
 Acq: 23 Nov 2016 23:43

Tgt Ion:248 Resp: 25768  
 Ion Ratio Lower Upper  
 248 100  
 250 206.7 78.2 117.4#  
 141 550.6 71.9 107.9#



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





#70

Phenanthrene

Concen: 6.22 ng

RT: 11.42 min Scan# 852

Delta R.T. 0.00 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

Instrument :

BNA\_F

ClientSampleId :

SB-04(5-6)

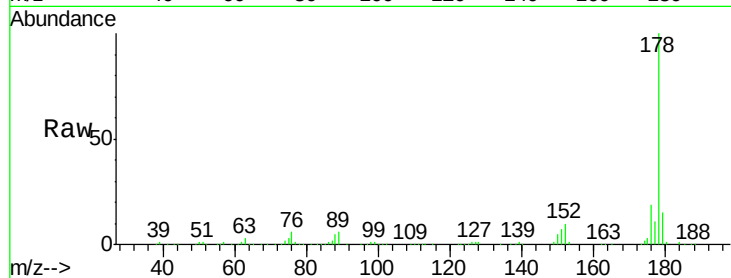
Tgt Ion:178 Resp: 224605

Ion Ratio Lower Upper

178 100

176 18.6 15.9 23.9

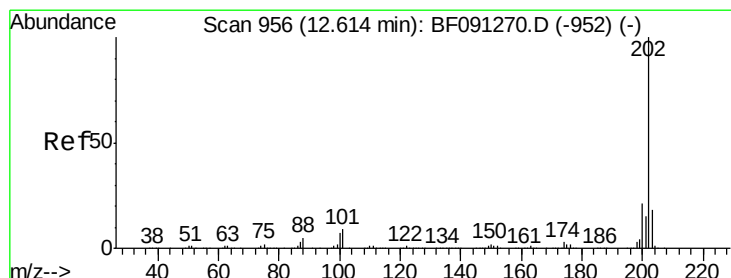
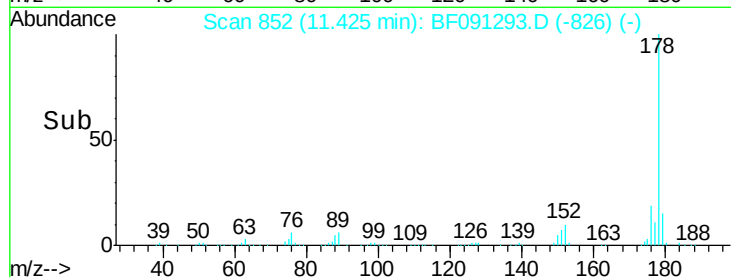
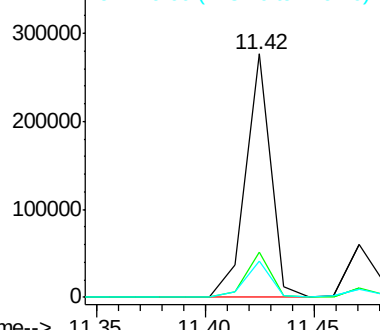
179 15.1 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 2.47 ng

RT: 12.61 min Scan# 956

Delta R.T. 0.00 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

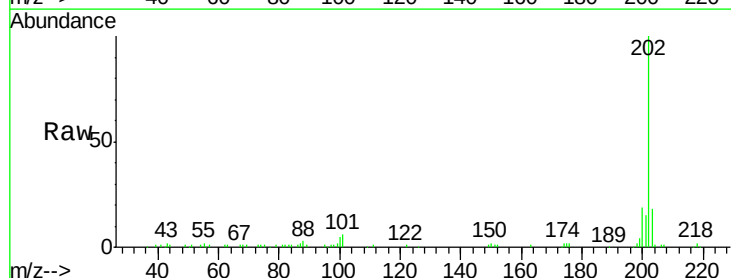
Tgt Ion:202 Resp: 90721

Ion Ratio Lower Upper

202 100

101 5.9 0.0 29.5

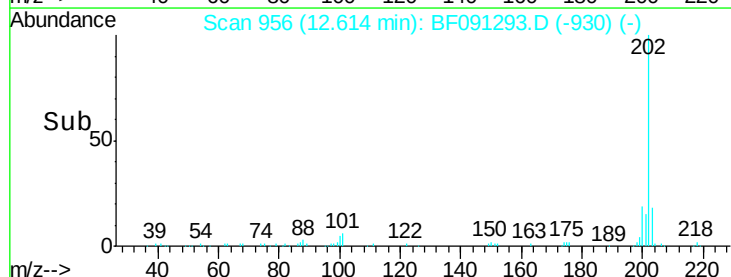
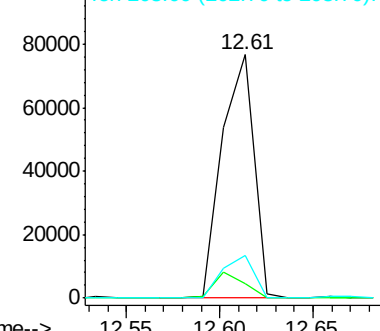
203 17.7 0.0 37.8

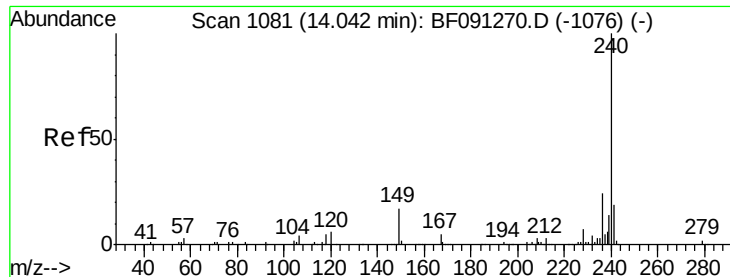


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.03 min Scan# 1080

Delta R.T. -0.01 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

Instrument :

BNA\_F

ClientSampleId :

SB-04(5-6)

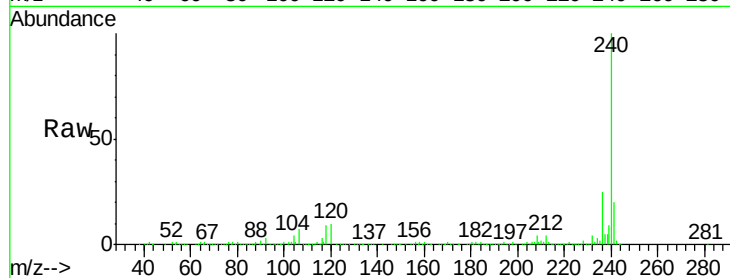
Tgt Ion:240 Resp: 492616

Ion Ratio Lower Upper

240 100

120 10.3 12.1 18.1#

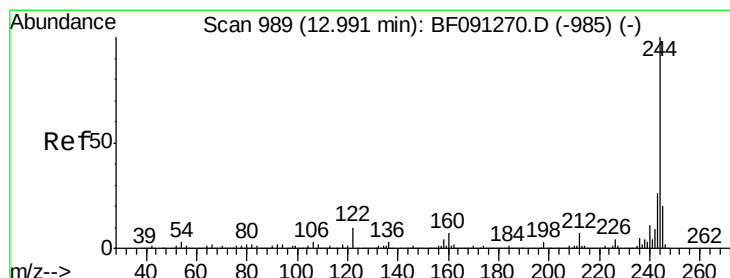
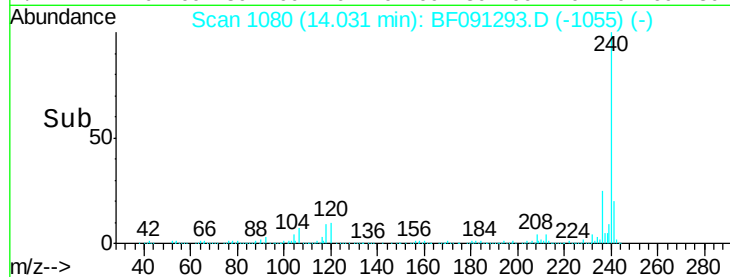
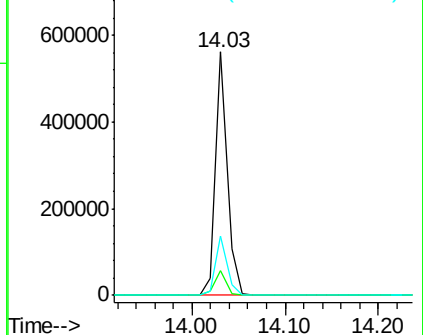
236 24.6 21.0 31.6



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: 61.58 ng

RT: 12.99 min Scan# 989

Delta R.T. 0.00 min

Lab File: BF091293.D

Acq: 23 Nov 2016 23:43

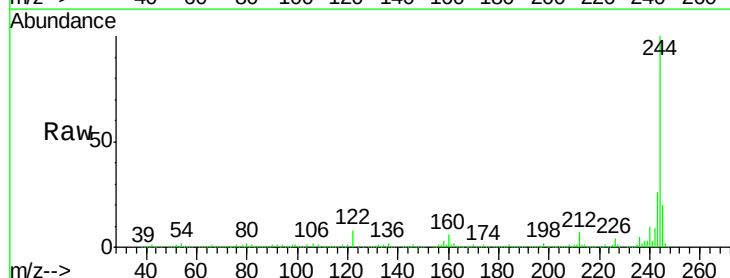
Tgt Ion:244 Resp: 1328323

Ion Ratio Lower Upper

244 100

212 6.8 6.5 9.7

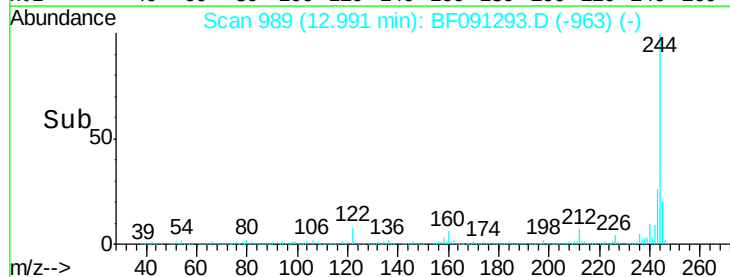
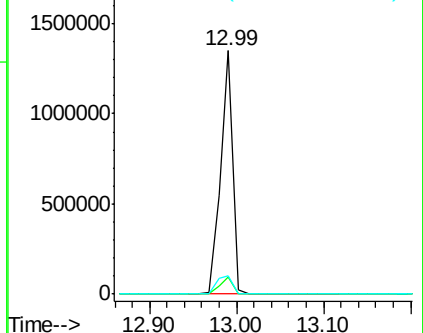
122 7.6 9.5 14.3#

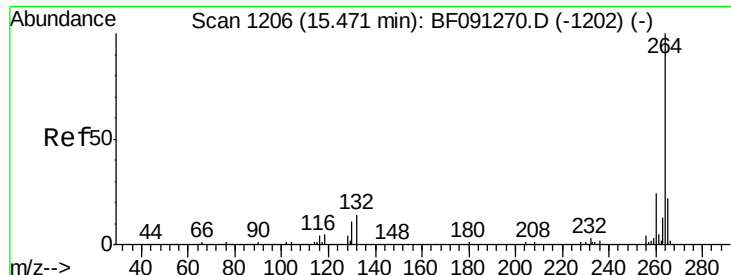


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.47 min Scan# 1206  
Delta R.T. 0.00 min  
Lab File: BF091293.D  
Acq: 23 Nov 2016 23:43

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04(5-6)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 18.8  | 28.2  |
| 265     | 21.6  | 17.0  | 25.6  |

