

Data Path : Z:\HPCHEM1\BNA F\Data\BF010917\  
 Data File : BF092136.D  
 Acq On : 9 Jan 2017 14:11  
 Operator : UM/SJ  
 Sample : H6244-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 09 14:52:43 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 06 15:43:51 2017  
 Response via : Initial Calibration

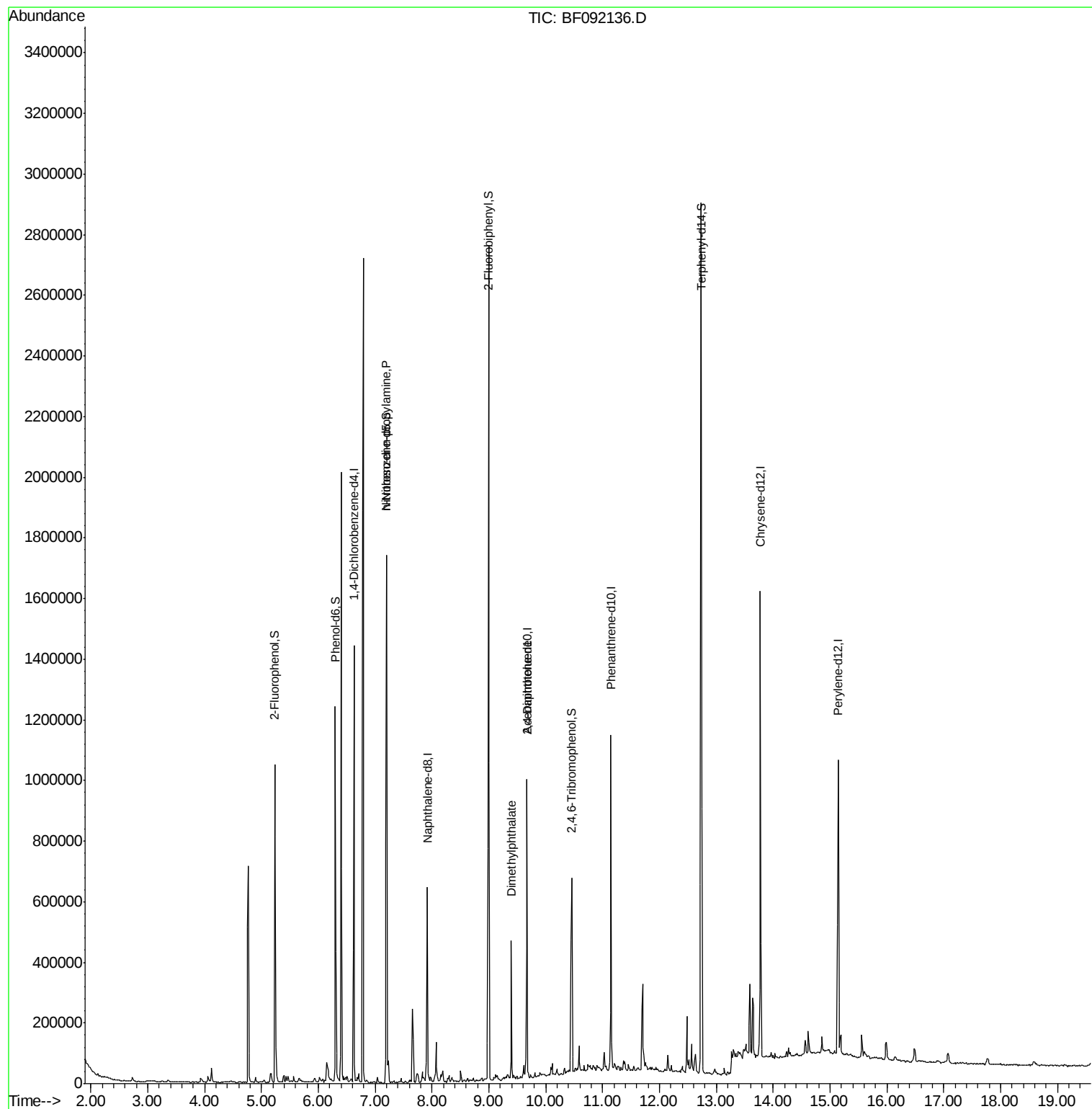
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.63  | 152  | 226901   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.92  | 136  | 424256   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.67  | 164  | 239068   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.14 | 188  | 371963   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12               | 13.77 | 240  | 538609   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12               | 15.15 | 264  | 408488   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.24  | 112  | 410295   | 30.19 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.30  | 99   | 436577   | 26.31 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.20  | 82   | 648687   | 85.02 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.46 | 330  | 94889    | 47.96 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.00  | 172  | 1069343  | 92.84 | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.73 | 244  | 991963   | 44.67 | ng    | -0.01    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.20  | 70   | 88884    | 8.05  | ng    | # 78     |
| 37) 2-Methylnaphthalene        | 8.73  | 142  | 3768     | Below | Cal   | 94       |
| 49) Dimethylphthalate          | 9.40  | 163  | 161721   | 10.58 | ng    | # 99     |
| 56) 2,4-Dinitrotoluene         | 9.67  | 165  | 30418    | 7.24  | ng    | # 20     |
| 71) Anthracene                 | 11.23 | 178  | 2053     | Below | Cal   | # 35     |
| 73) Di-n-butylphthalate        | 11.73 | 149  | 24428    | Below | Cal   | 98       |
| 74) Fluoranthene               | 12.36 | 202  | 1475     | Below | Cal   | 69       |

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

Data Path : Z:\HPCHEM1\BNA F\Data\BF010917\  
Data File : BF092136.D  
Acq On : 9 Jan 2017 14:11  
Operator : UM/SJ  
Sample : H6244-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jan 09 14:52:43 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 06 15:43:51 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.63 min Scan# 415

Delta R.T. -0.01 min

Lab File: BF092136.D

Acq: 9 Jan 2017 14:11

Instrument :  
BNA\_F  
ClientSampleId :

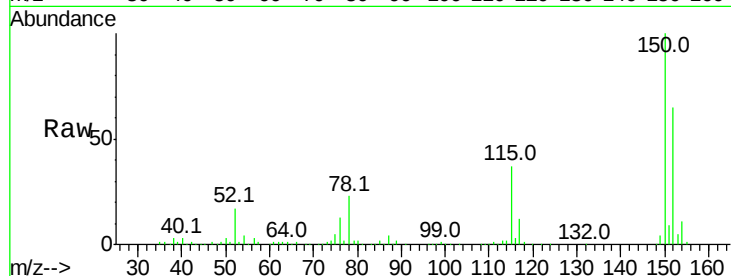
Tot Ion:152 Resp: 226901

Ion Ratio Lower Upper

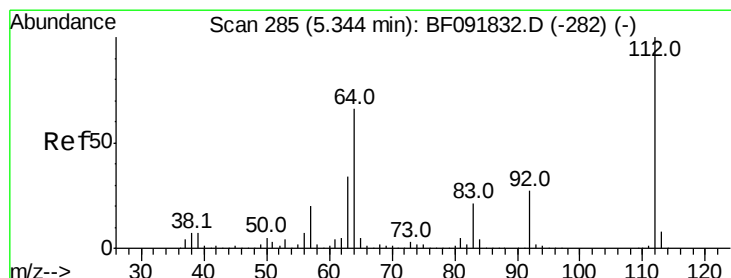
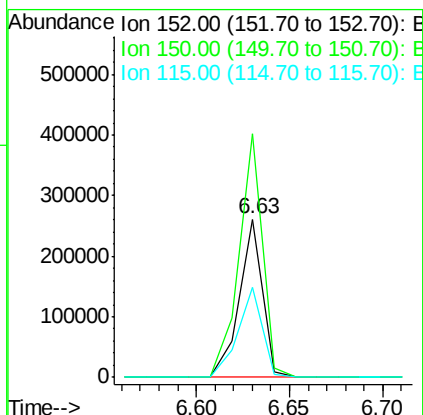
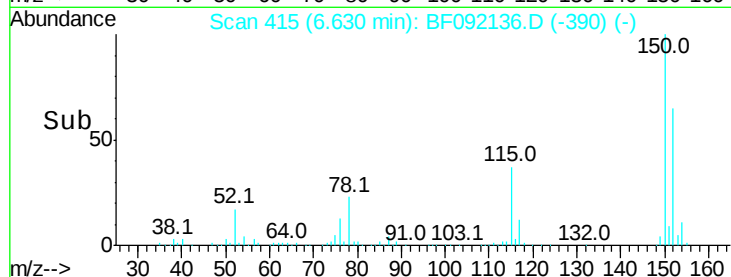
152 100

150 154.1 124.9 187.3

115 56.9 46.0 69.0



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: 30.19 ng

RT: 5.24 min Scan# 293

Delta R.T. 0.00 min

Lab File: BF092136.D

Acq: 9 Jan 2017 14:11

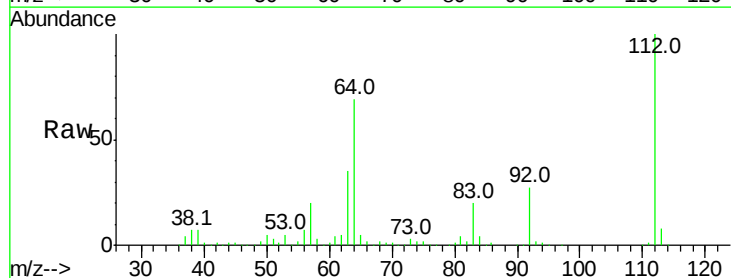
Tgt Ion:112 Resp: 410295

Ion Ratio Lower Upper

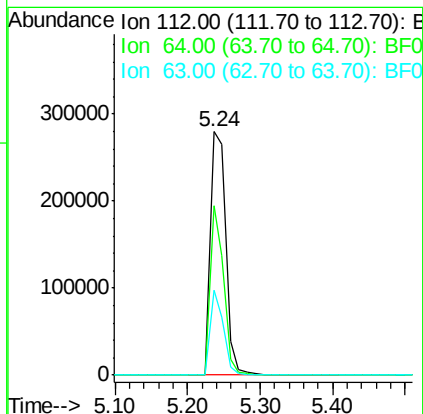
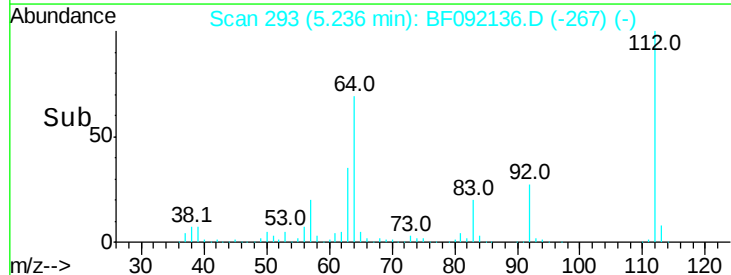
112 100

64 69.5 46.1 69.1#

63 35.1 23.8 35.6



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: 26.31 ng

RT: 6.30 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF092136.D

Acq: 9 Jan 2017 14:11

Instrument :

BNA\_F

ClientSampleId :

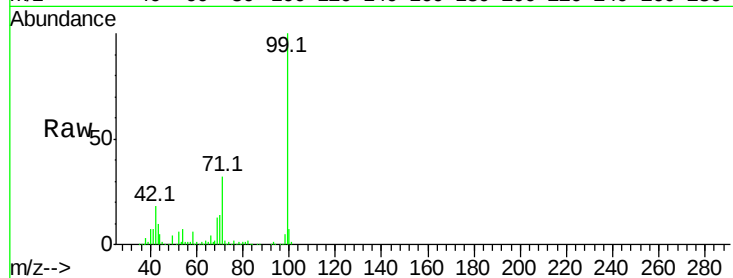
Tot Ion: 99 Resp: 436577

Ion Ratio Lower Upper

99 100

42 17.9 15.6 23.4

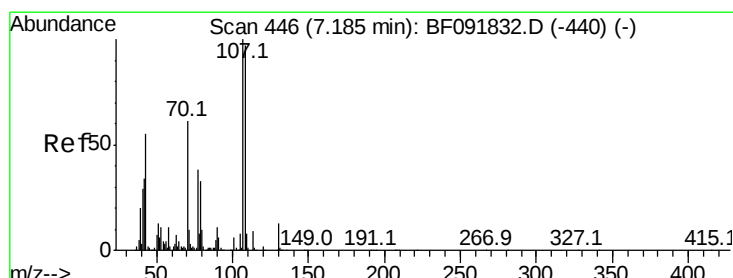
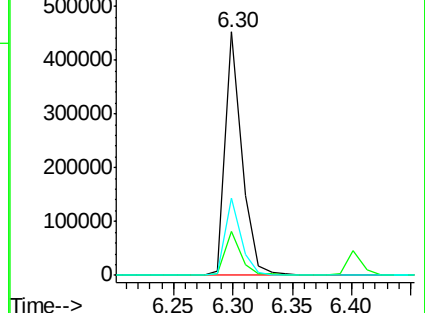
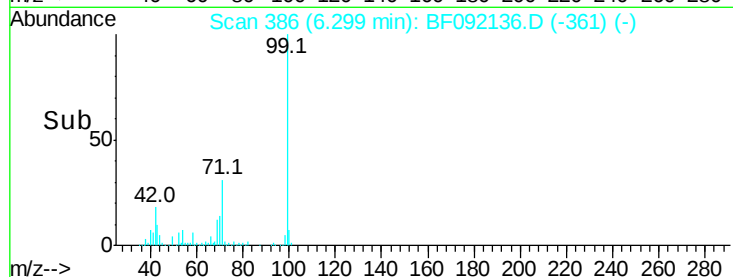
71 31.6 27.5 41.3



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: 8.05 ng

RT: 7.20 min Scan# 465

Delta R.T. 0.13 min

Lab File: BF092136.D

Acq: 9 Jan 2017 14:11

Tgt Ion: 70 Resp: 88884

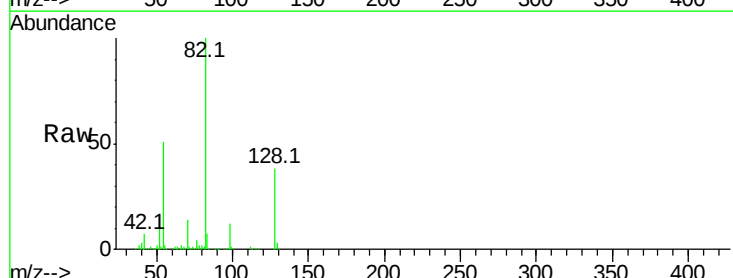
Ion Ratio Lower Upper

70 100

42 48.7 49.4 74.0#

101 0.0 7.4 11.2#

130 1.6 14.2 21.4#

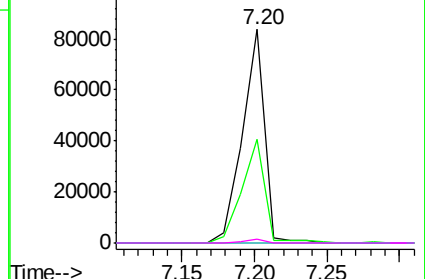
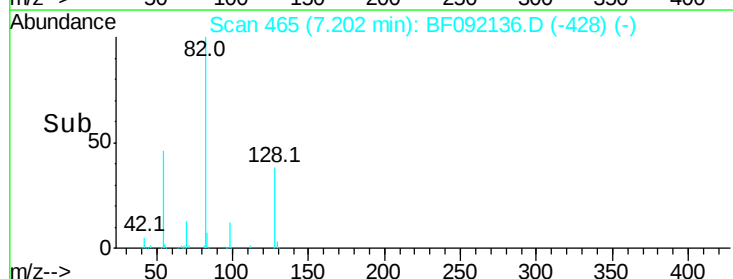


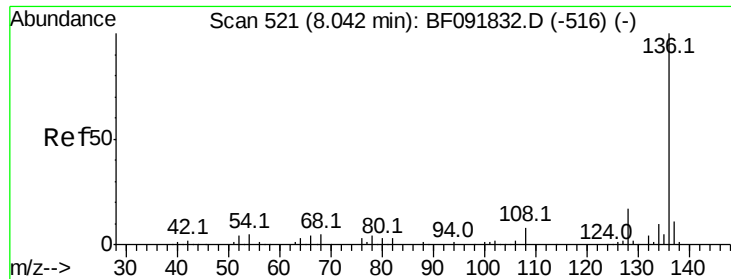
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

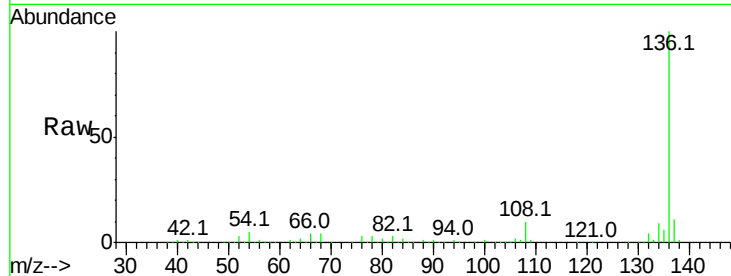




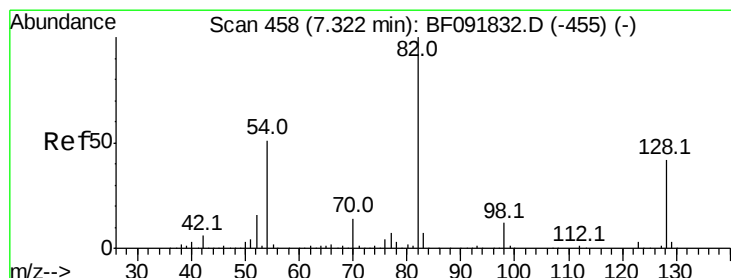
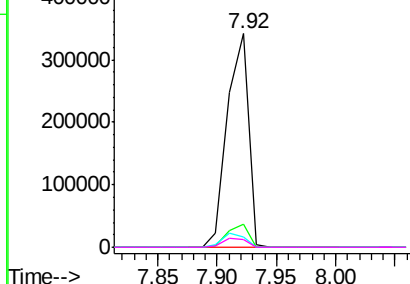
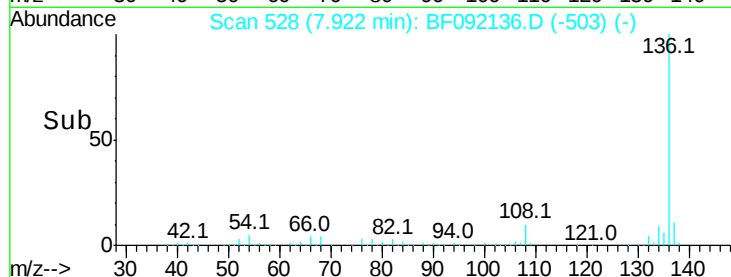
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.92 min Scan# 528  
Delta R.T. -0.01 min  
Lab File: BF092136.D  
Acq: 9 Jan 2017 14:11

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 424256 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 8.4   | 12.6   |
| 54       | 5.0   | 4.5   | 6.7    |
| 68       | 3.6   | 3.6   | 5.4    |

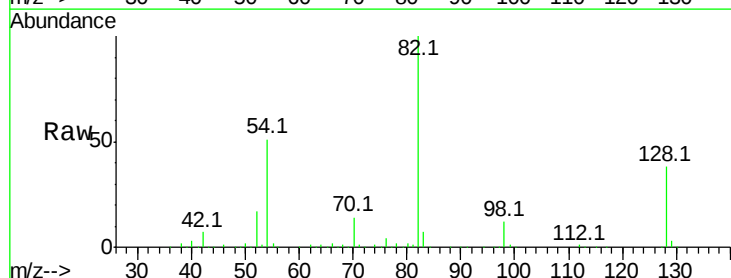


Abundance Ion 136.00 (135.70 to 136.70): B  
Ion 137.00 (136.70 to 137.70): B  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

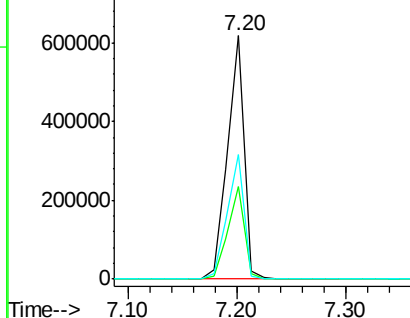
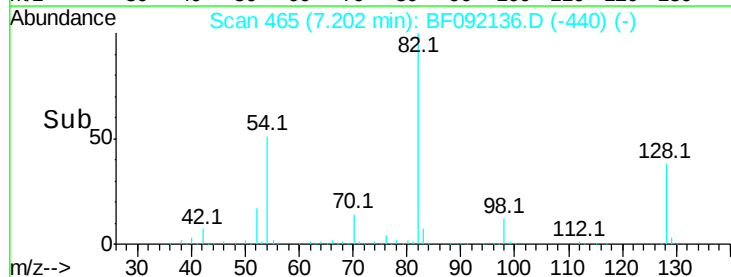


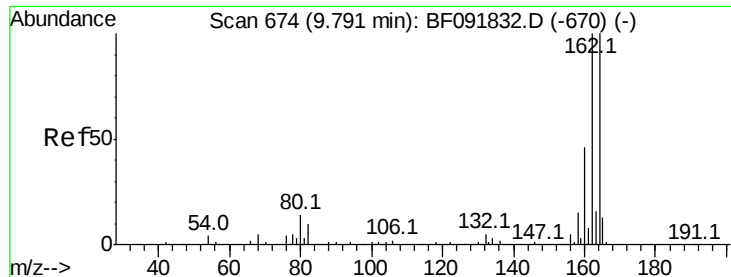
#23  
Nitrobenzene-d5  
Concen: 85.02 ng  
RT: 7.20 min Scan# 465  
Delta R.T. -0.01 min  
Lab File: BF092136.D  
Acq: 9 Jan 2017 14:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 648687 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 38.0  | 34.6  | 52.0   |
| 54       | 51.3  | 39.5  | 59.3   |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.67 min Scan# 681

Delta R.T. -0.01 min

Lab File: BF092136.D

Acq: 9 Jan 2017 14:11

Instrument :

BNA\_F

ClientSampleId :

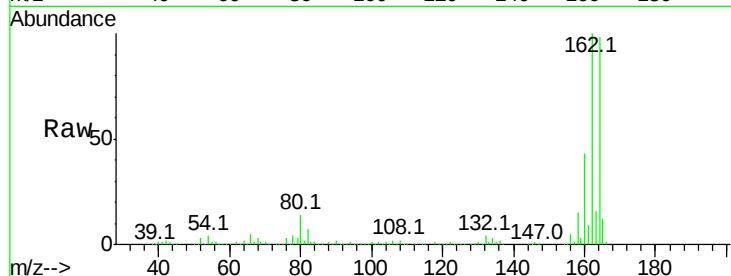
Tot Ion:164 Resp: 239068

Ion Ratio Lower Upper

164 100

162 101.9 80.2 120.2

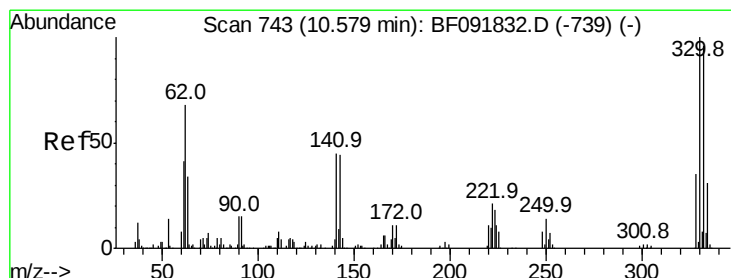
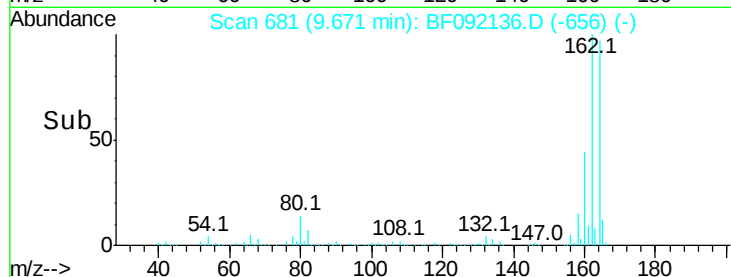
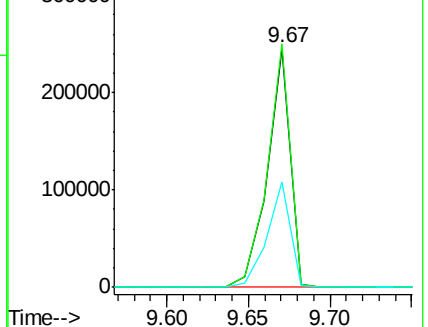
160 44.3 36.9 55.3



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: 47.96 ng

RT: 10.46 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF092136.D

Acq: 9 Jan 2017 14:11

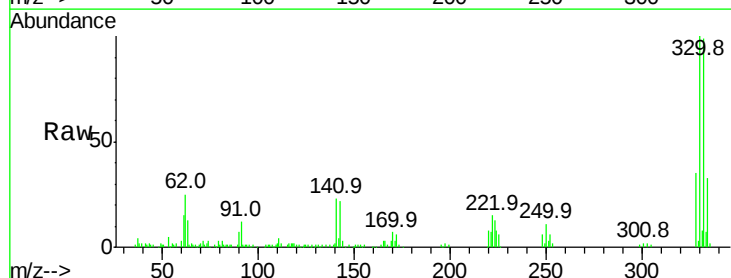
Tgt Ion:330 Resp: 94889

Ion Ratio Lower Upper

330 100

332 97.0 77.4 116.2

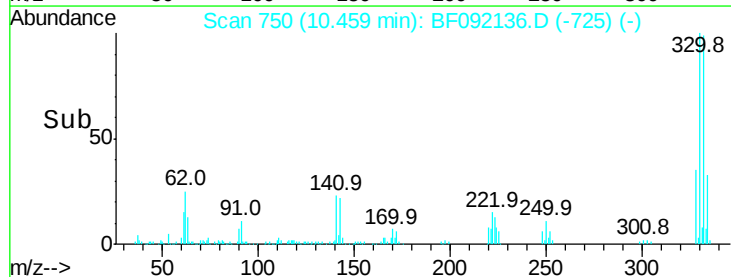
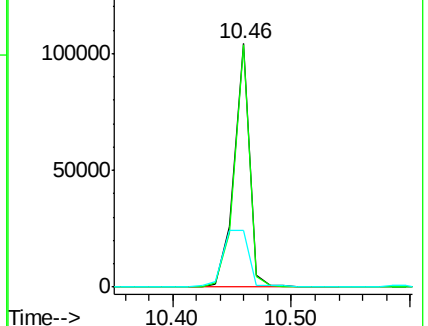
141 38.3 34.1 51.1



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

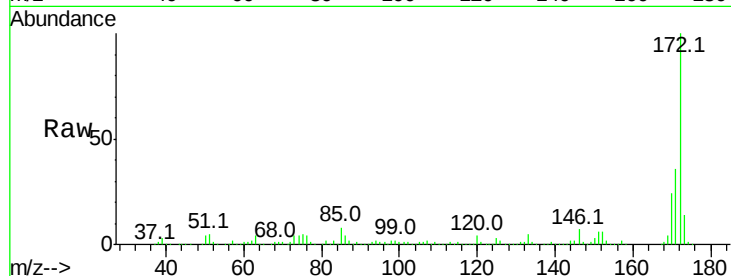




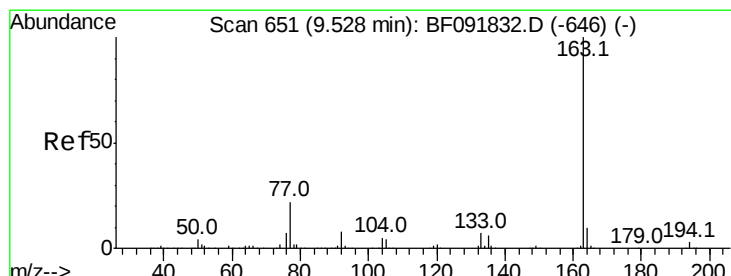
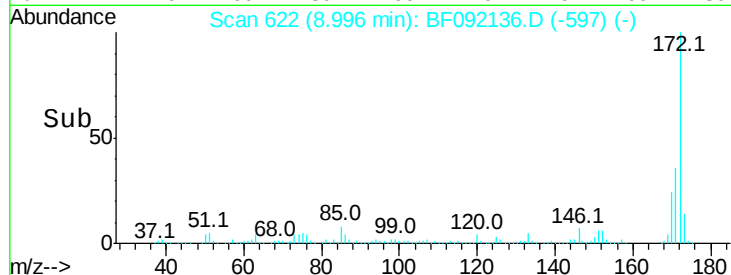
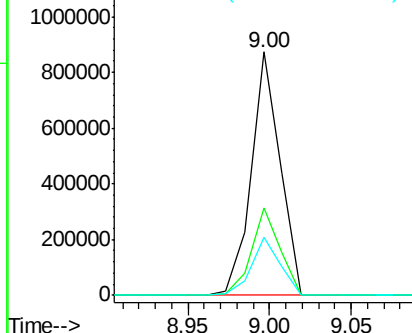
#44  
2-Fluorobiphenyl  
Concen: 92.84 ng  
RT: 9.00 min Scan# 622  
Delta R.T. -0.01 min  
Lab File: BF092136.D  
Acq: 9 Jan 2017 14:11

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 1069343  
Ion Ratio Lower Upper  
172 100  
171 35.8 29.4 44.0  
170 23.8 20.2 30.4

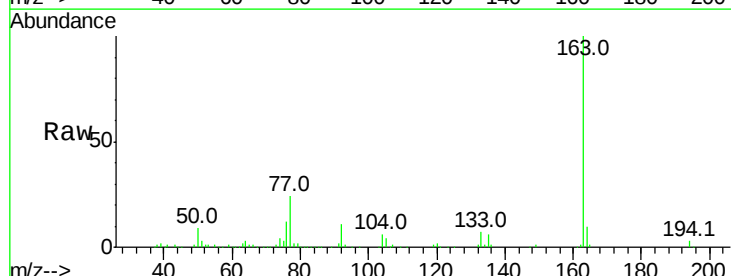


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

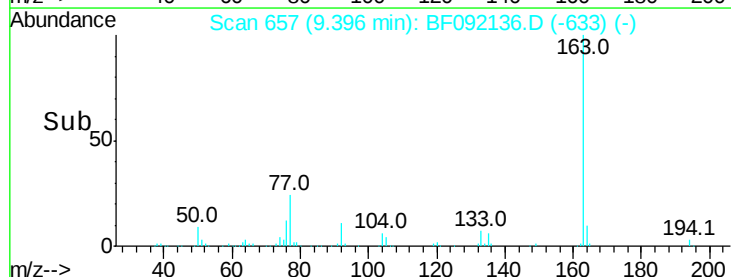
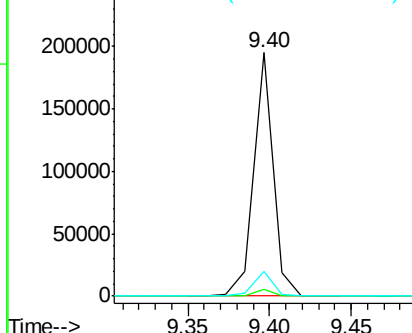


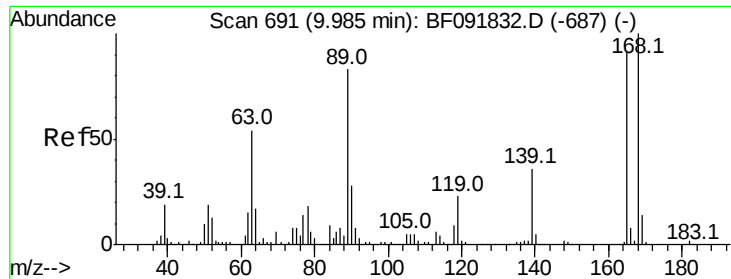
#49  
Dimethylphthalate  
Concen: 10.58 ng  
RT: 9.40 min Scan# 657  
Delta R.T. -0.02 min  
Lab File: BF092136.D  
Acq: 9 Jan 2017 14:11

Tgt Ion:163 Resp: 161721  
Ion Ratio Lower Upper  
163 100  
194 2.9 3.0 4.4#  
164 10.3 8.0 12.0



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

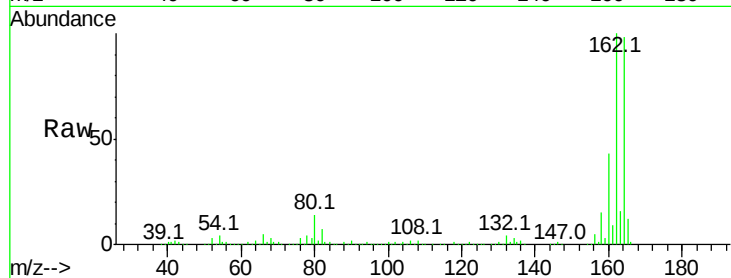




#56  
 2,4-Dinitrotoluene  
 Concen: 7.24 ng  
 RT: 9.67 min Scan# 681  
 Delta R.T. -0.22 min  
 Lab File: BF092136.D  
 Acq: 9 Jan 2017 14:11

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 40.2  | 60.4# |
| 89      | 1.5   | 62.5  | 93.7# |
| 182     | 0.0   | 1.8   | 2.8#  |

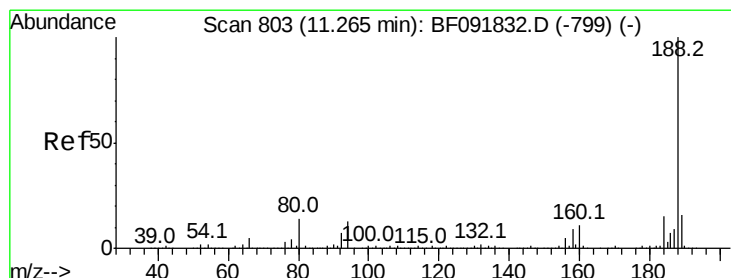
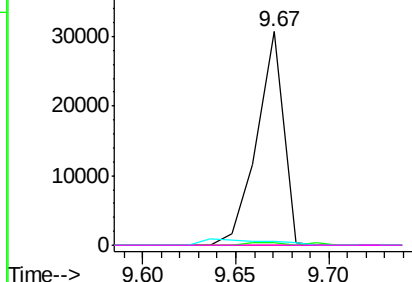
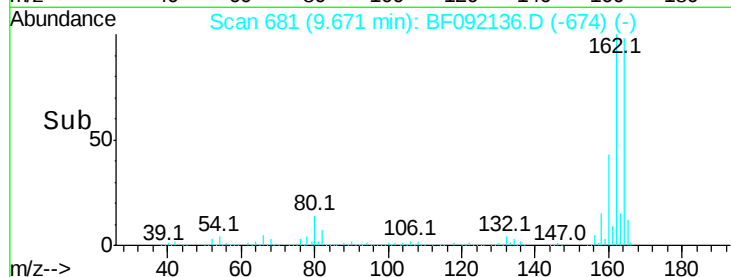


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

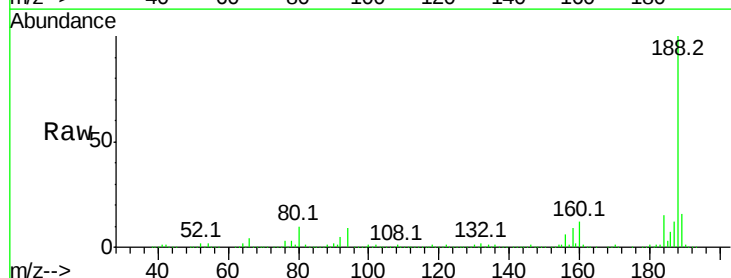
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.14 min Scan# 810  
 Delta R.T. -0.01 min  
 Lab File: BF092136.D  
 Acq: 9 Jan 2017 14:11

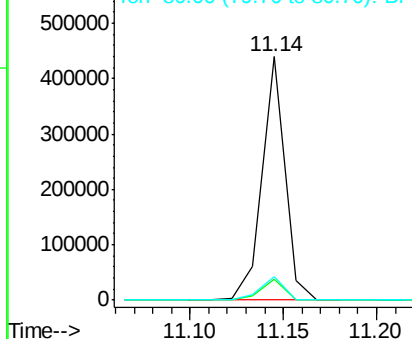
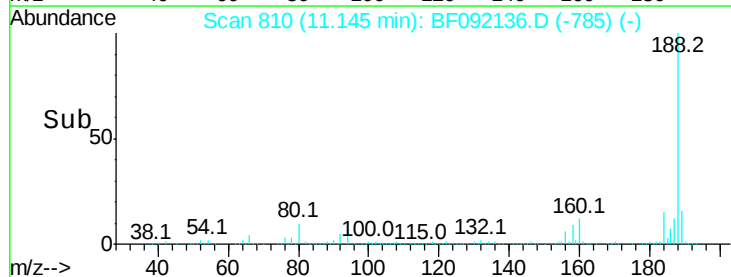
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.5   | 10.0  | 15.0# |
| 80      | 9.6   | 11.2  | 16.8# |

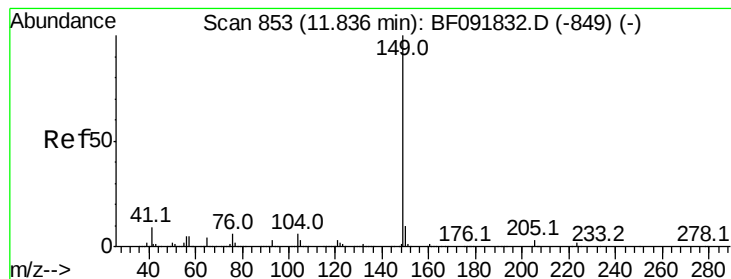


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.73 min Scan# 861

Delta R.T. 0.00 min

Lab File: BF092136.D

Acq: 9 Jan 2017 14:11

Instrument :

BNA\_F

ClientSampleId :

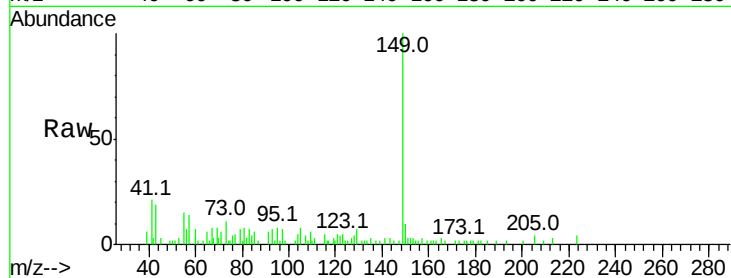
Tot Ion:149 Resp: 24428

Ion Ratio Lower Upper

149 100

150 9.7 8.1 12.1

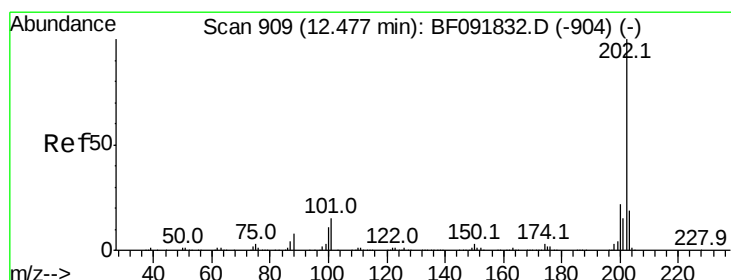
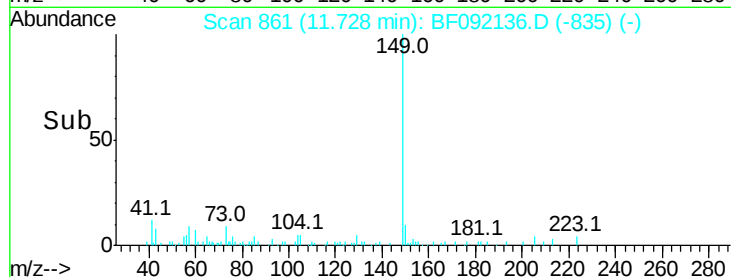
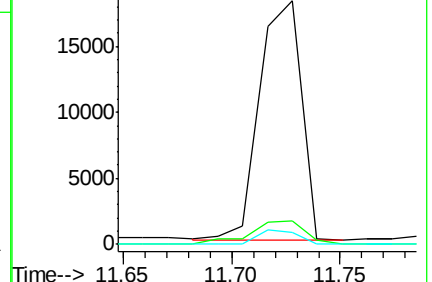
104 4.9 4.6 7.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: Below Cal

RT: 12.36 min Scan# 916

Delta R.T. -0.01 min

Lab File: BF092136.D

Acq: 9 Jan 2017 14:11

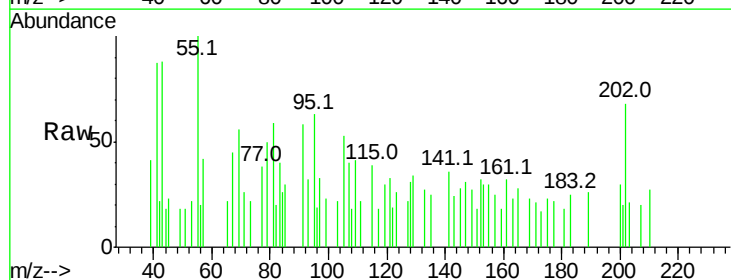
Tgt Ion:202 Resp: 1475

Ion Ratio Lower Upper

202 100

101 0.0 0.0 34.6

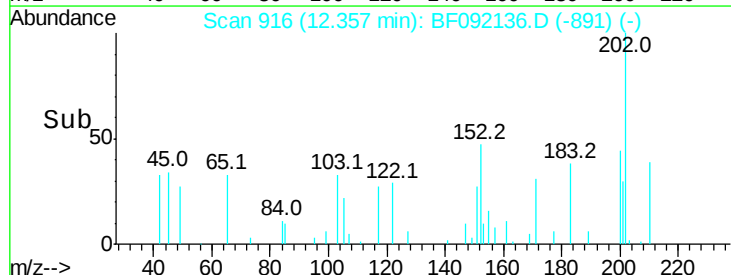
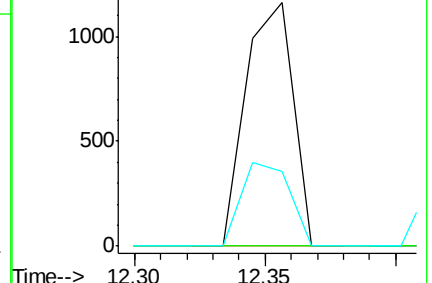
203 30.8 0.0 38.7

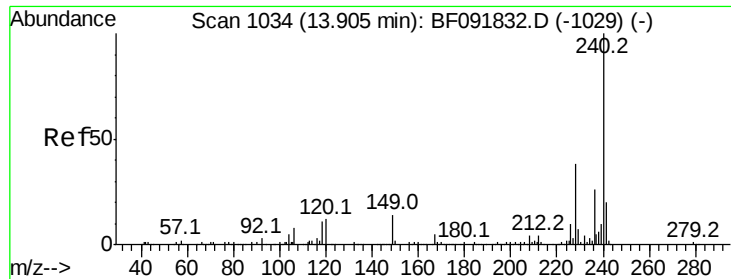


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.77 min Scan# 1040

Delta R.T. -0.01 min

Lab File: BF092136.D

Acq: 9 Jan 2017 14:11

Instrument :

BNA\_F

ClientSampleId :

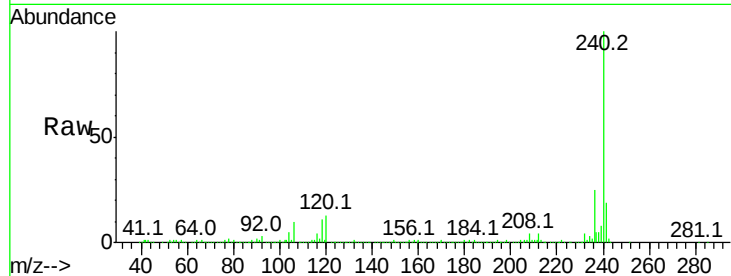
Tot Ion:240 Resp: 538609

Ion Ratio Lower Upper

240 100

120 12.7 12.9 19.3#

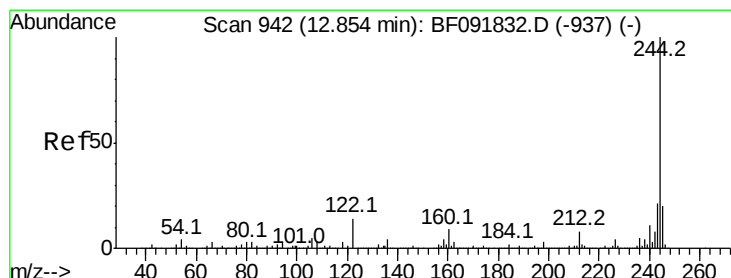
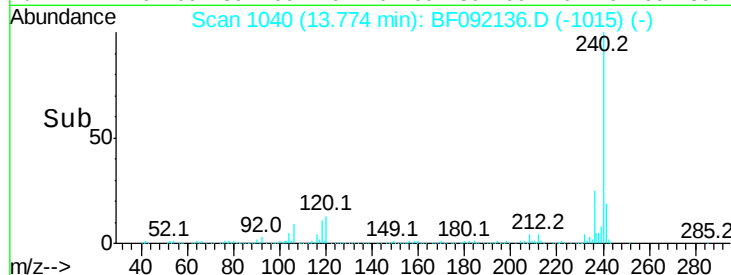
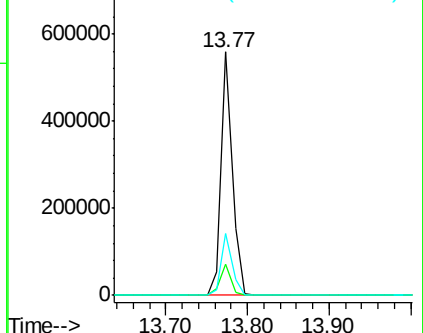
236 25.2 20.9 31.3



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



#78

Terphenyl-d14

Concen: 44.67 ng

RT: 12.73 min Scan# 949

Delta R.T. -0.01 min

Lab File: BF092136.D

Acq: 9 Jan 2017 14:11

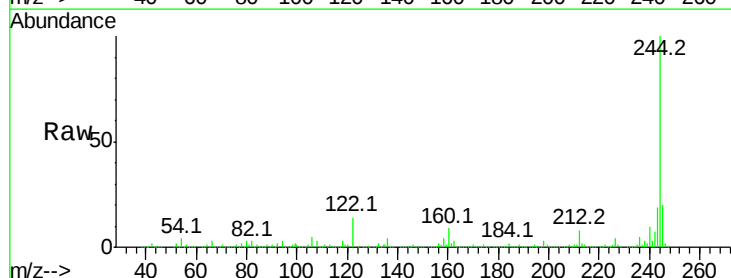
Tgt Ion:244 Resp: 991963

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

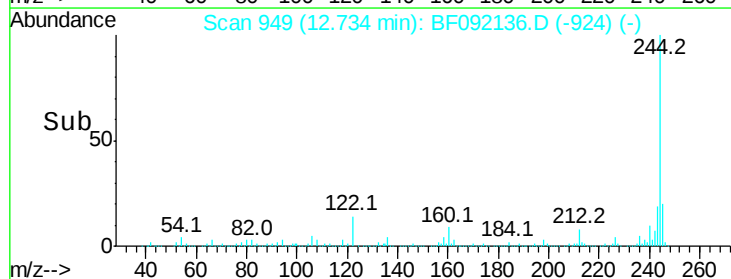
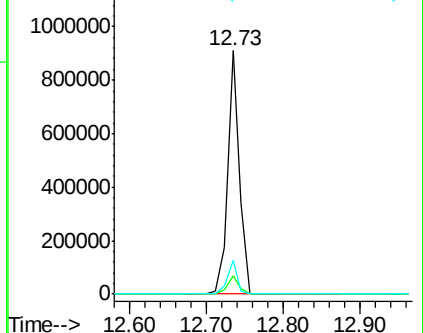
122 13.7 11.4 17.2

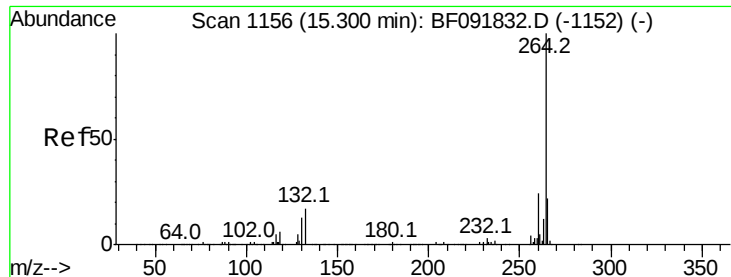


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.15 min Scan# 1160  
Delta R.T. 0.00 min  
Lab File: BF092136.D  
Acq: 9 Jan 2017 14:11

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 408488  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.8  | 19.2  | 28.8  |
| 265 | 21.6  | 17.4  | 26.0  |

