

Data Path : Z:\HPCHEM1\BNA F\Data\BF030617\  
 Data File : BF093402.D  
 Acq On : 6 Mar 2017 15:55  
 Operator : SJ/MA  
 Sample : I2091-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RF-1

Quant Time: Mar 06 16:21:15 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 17 17:31:55 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.93  | 152  | 477051   | 20.00 | ng    | 0.07     |
| 21) Naphthalene-d8        | 8.06  | 136  | 748838   | 20.00 | ng    | -0.09    |
| 38) Acenaphthene-d10      | 9.81  | 164  | 386123   | 20.00 | ng    | -0.09    |
| 63) Phenanthrene-d10      | 11.29 | 188  | 664636   | 20.00 | ng    | -0.09    |
| 75) Chrysene-d12          | 13.93 | 240  | 489323   | 20.00 | ng    | -0.09    |
| 86) Perylene-d12          | 15.34 | 264  | 326137   | 20.00 | ng    | -0.11    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.36  | 112  | 1040532  | 37.42 | ng    | -0.09    |
| 7) Phenol-d6                | 6.42  | 99   | 1509089  | 42.18 | ng    | -0.06    |
| 23) Nitrobenzene-d5         | 7.34  | 82   | 770472   | 57.30 | ng    | -0.09    |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 259560   | 92.94 | ng    | -0.09    |
| 44) 2-Fluorobiphenyl        | 9.13  | 172  | 1546507  | 72.56 | ng    | -0.09    |
| 78) Terphenyl-d14           | 12.87 | 244  | 1221496  | 58.65 | ng    | -0.10    |

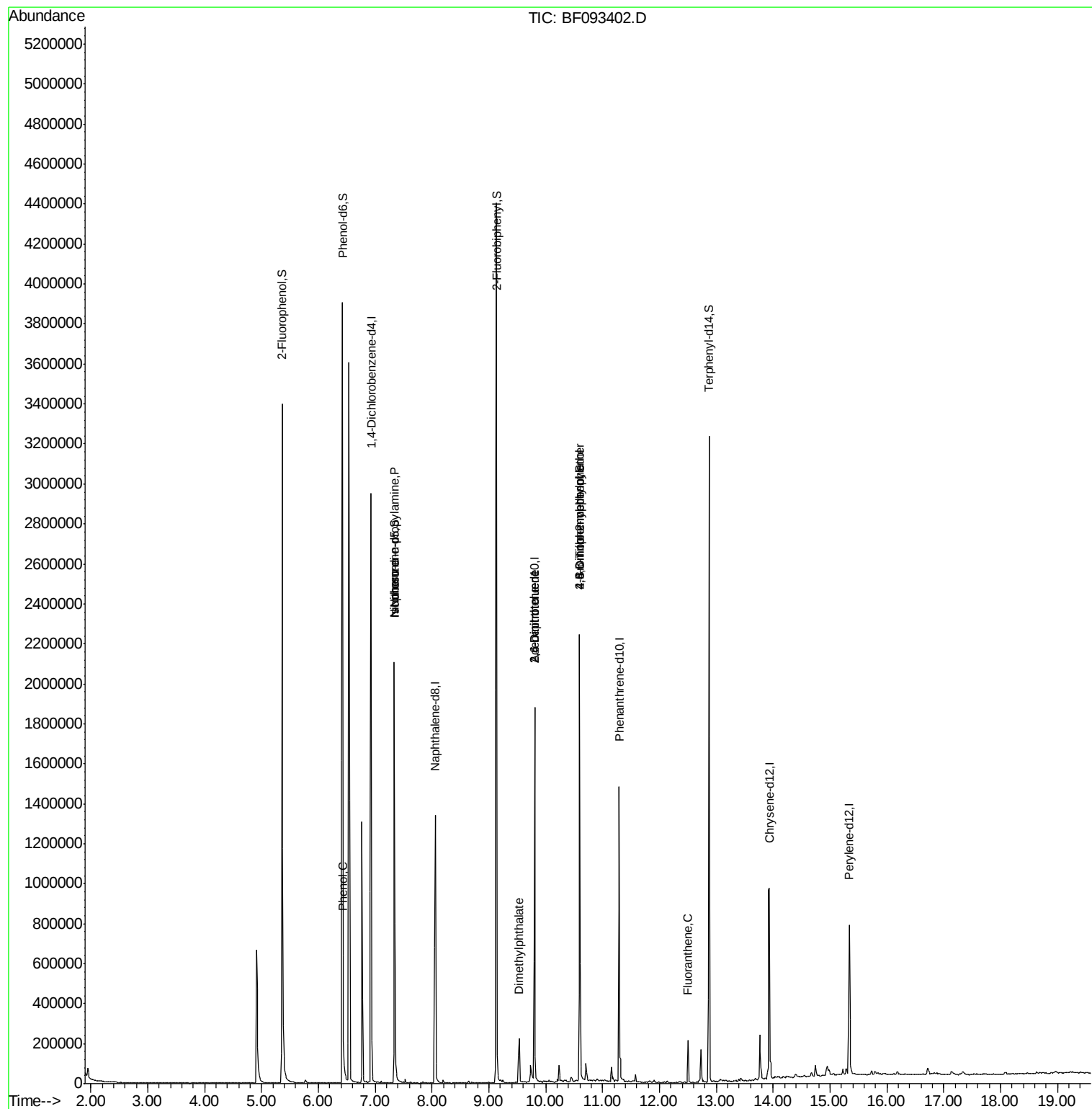
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 10) Phenol                     | 6.44  | 94   | 101293   | 2.42  | ng    | # 73   |
| 19) n-Nitroso-di-n-propylamine | 7.34  | 70   | 101706   | 4.47  | ng    | # 83   |
| 25) Isophorone                 | 7.34  | 82   | 733533   | 29.27 | ng    | # 65   |
| 49) Dimethylphthalate          | 9.53  | 163  | 119901   | 4.61  | ng    | # 98   |
| 50) 2,6-Dinitrotoluene         | 9.81  | 165  | 47528    | 8.46  | ng    | # 31   |
| 56) 2,4-Dinitrotoluene         | 9.81  | 165  | 47530    | 6.36  | ng    | # 20   |
| 64) 4,6-Dinitro-2-methylphenol | 10.60 | 198  | 399      | 2.76  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.60 | 248  | 18901    | 2.72  | ng    | # 1    |
| 74) Fluoranthene               | 12.50 | 202  | 88098    | 2.24  | ng    | # 95   |

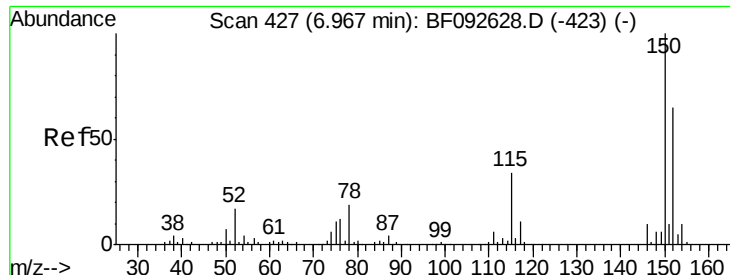
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 17 17:31:55 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.93 min Scan# 441

Delta R.T. 0.07 min

Lab File: BF093402.D

Acq: 6 Mar 2017 15:55

Instrument :

BNA\_F

ClientSampled :

RF-1

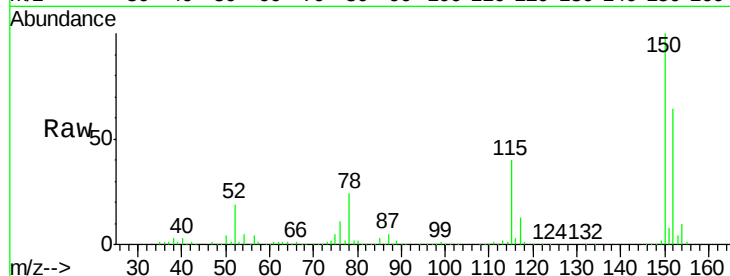
Tot Ion:152 Resp: 477051

Ion Ratio Lower Upper

152 100

150 156.6 124.9 187.3

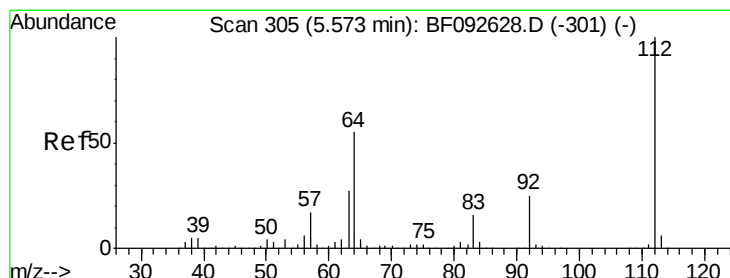
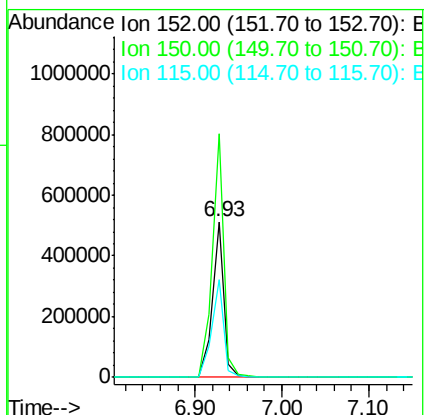
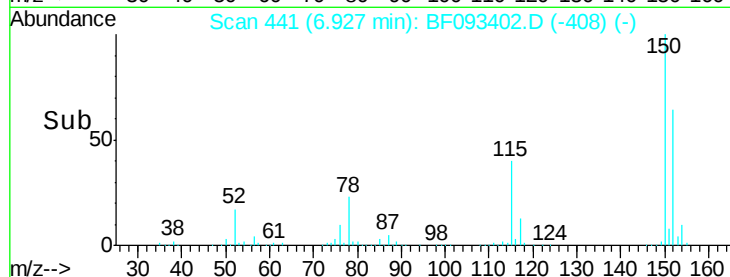
115 62.8 46.0 69.0



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: 37.42 ng

RT: 5.36 min Scan# 304

Delta R.T. -0.09 min

Lab File: BF093402.D

Acq: 6 Mar 2017 15:55

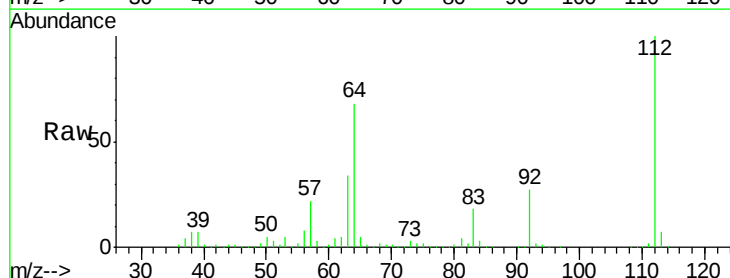
Tgt Ion:112 Resp: 1040532

Ion Ratio Lower Upper

112 100

64 68.1 46.1 69.1

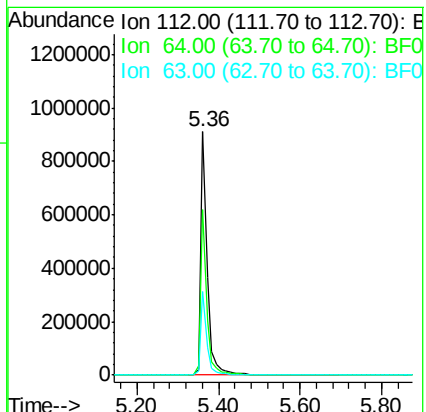
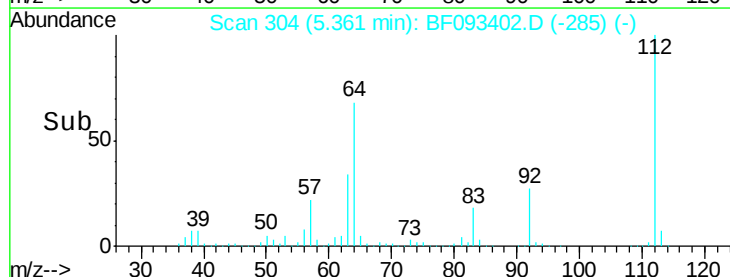
63 34.2 23.8 35.6



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: 42.18 ng

RT: 6.42 min Scan# 397

Delta R.T. -0.06 min

Lab File: BF093402.D

Acq: 6 Mar 2017 15:55

Instrument :

BNA\_F

ClientSampleId :

RF-1

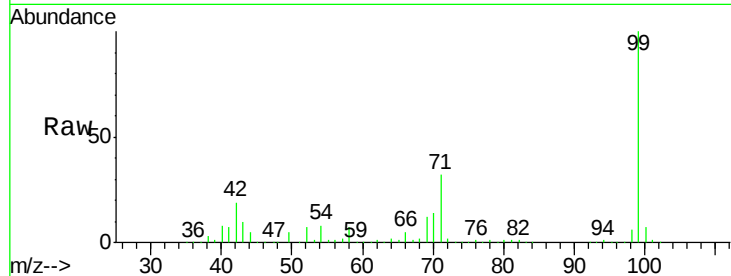
Tot Ion: 99 Resp: 1509089

Ion Ratio Lower Upper

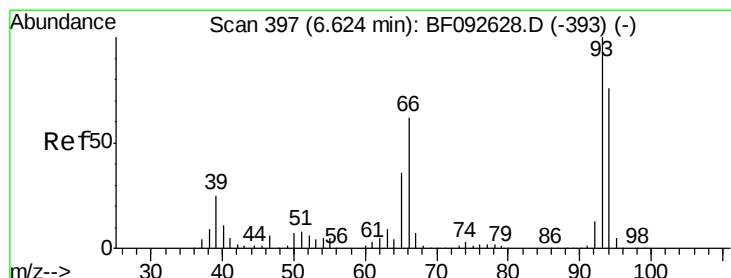
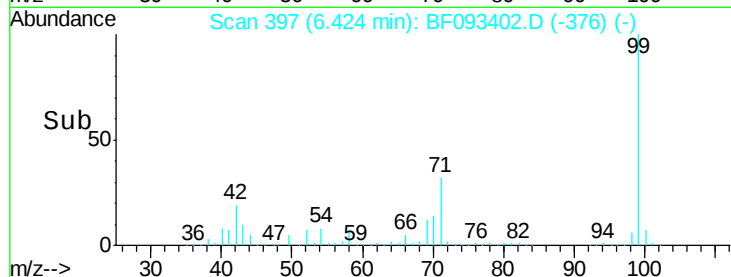
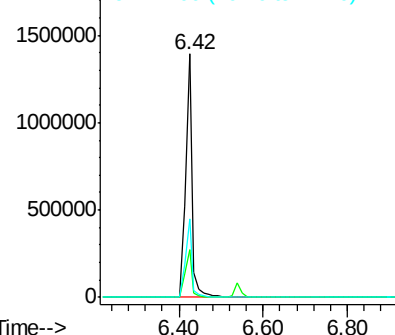
99 100

42 19.4 15.6 23.4

71 32.0 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



#10

Phenol

Concen: 2.42 ng

RT: 6.44 min Scan# 398

Delta R.T. -0.07 min

Lab File: BF093402.D

Acq: 6 Mar 2017 15:55

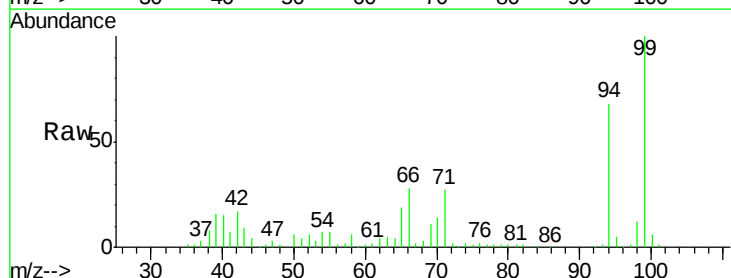
Tgt Ion: 94 Resp: 101293

Ion Ratio Lower Upper

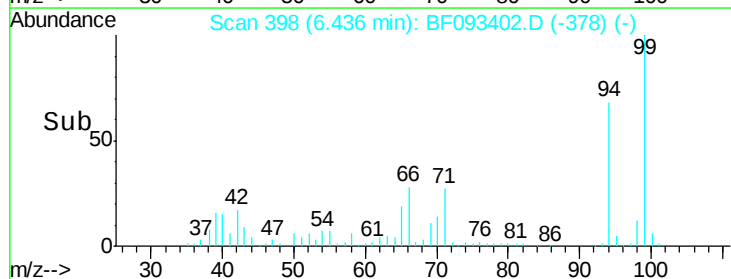
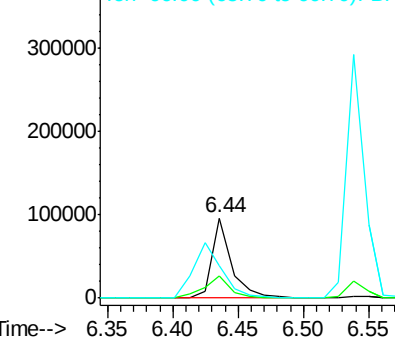
94 100

65 27.4 21.4 61.4

66 40.7 44.0 84.0#



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0

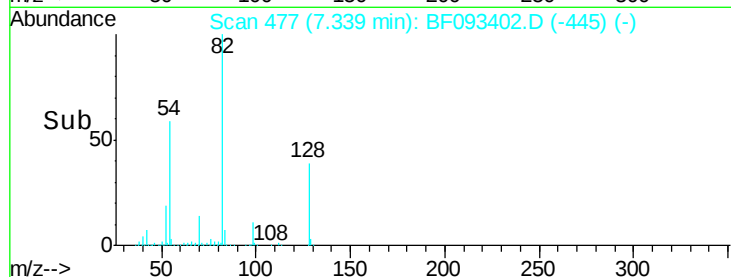
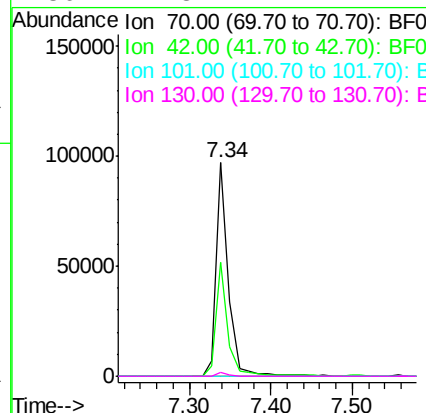
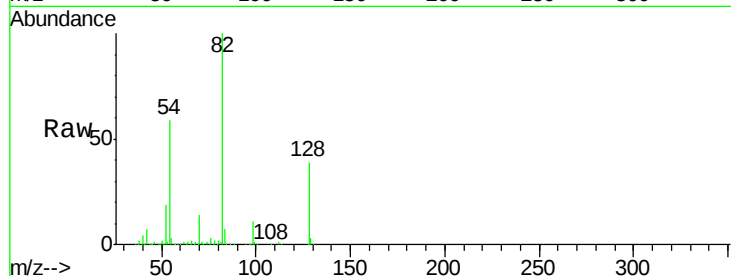




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.47 ng  
RT: 7.34 min Scan# 477  
Delta R.T. 0.06 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

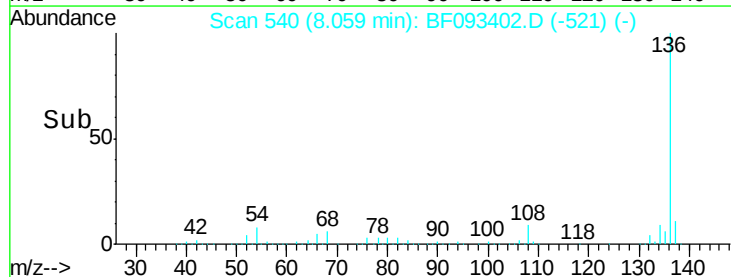
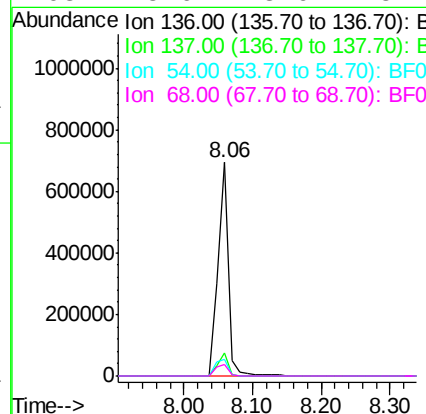
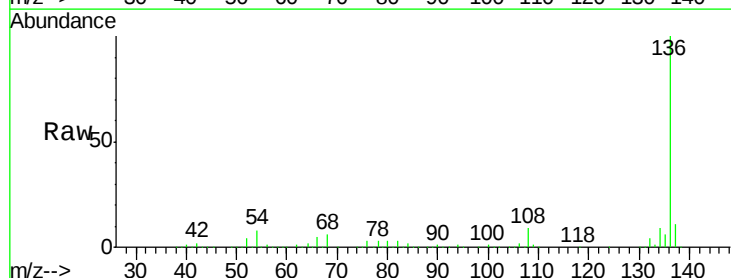
Instrument :  
BNA\_F  
ClientSampleId :  
RF-1

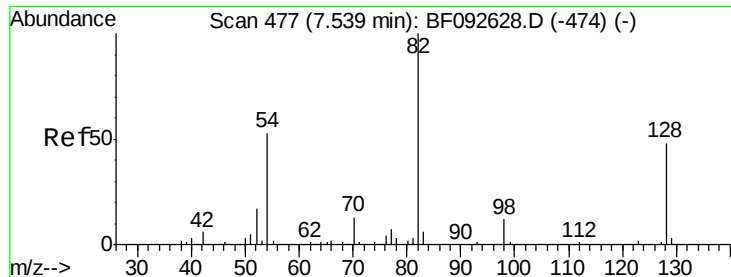
Tot Ion: 70 Resp: 101706  
Ion Ratio Lower Upper  
70 100  
42 53.4 49.4 74.0  
101 0.0 7.4 11.2#  
130 1.8 14.2 21.4#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.06 min Scan# 540  
Delta R.T. -0.09 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Tgt Ion: 136 Resp: 748838  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.4 12.6  
54 7.8 4.5 6.7#  
68 5.6 3.6 5.4#

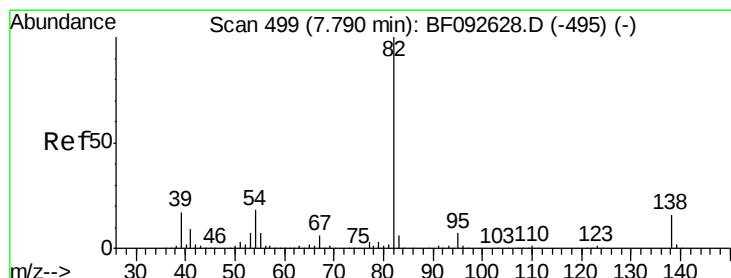
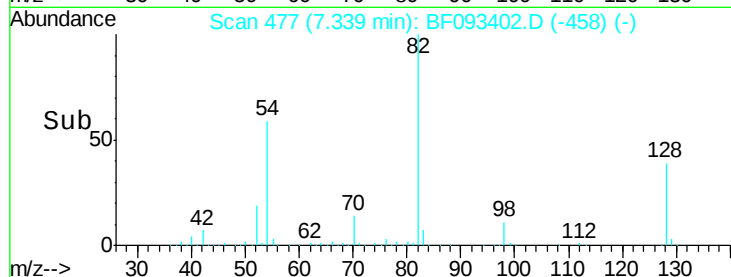
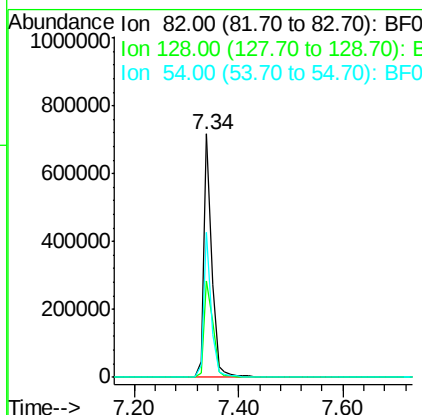
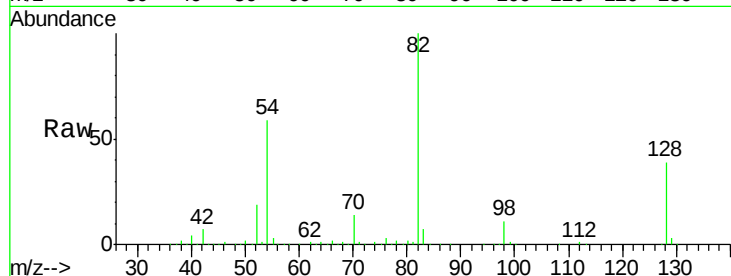




#23  
Nitrobenzene-d5  
Concen: 57.30 ng  
RT: 7.34 min Scan# 477  
Delta R.T. -0.09 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

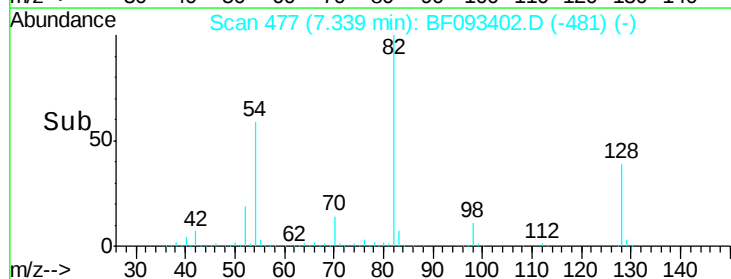
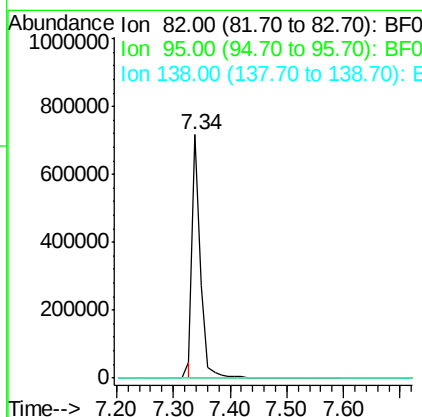
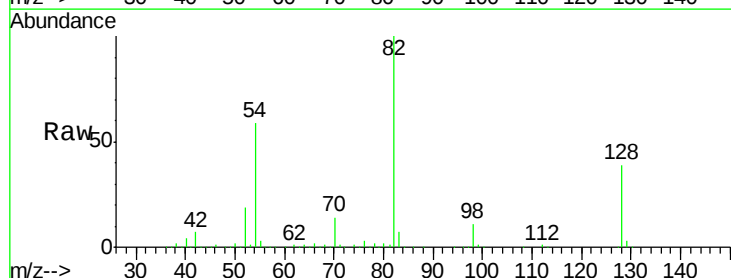
Instrument :  
BNA\_F  
ClientSampled :  
RF-1

Tot Ion: 82 Resp: 770472  
Ion Ratio Lower Upper  
82 100  
128 39.4 34.6 52.0  
54 59.4 39.5 59.3#



#25  
Isophorone  
Concen: 29.27 ng  
RT: 7.34 min Scan# 477  
Delta R.T. -0.35 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Tgt Ion: 82 Resp: 733533  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.6 8.4#  
138 0.0 14.6 22.0#

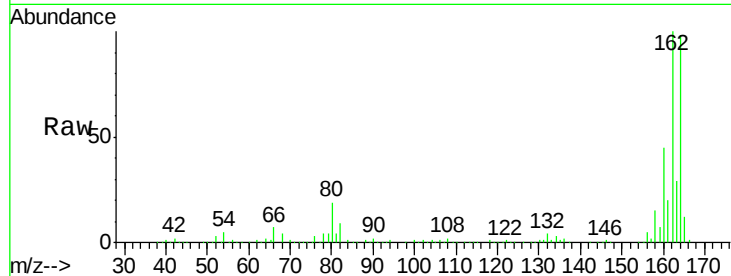




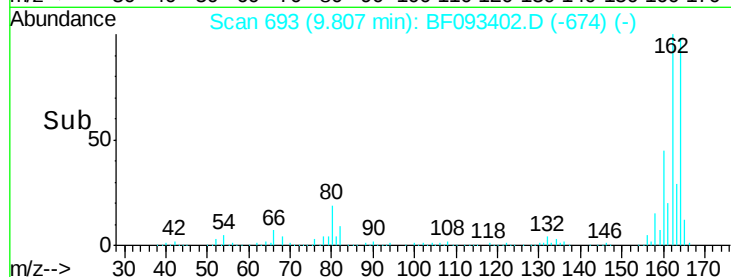
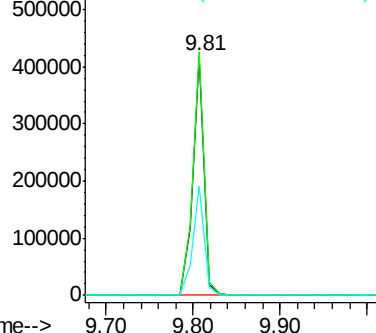
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.81 min Scan# 693  
Delta R.T. -0.09 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Instrument :  
BNA\_F  
ClientSampled :  
RF-1

Tot Ion:164 Resp: 386123  
Ion Ratio Lower Upper  
164 100  
162 101.9 80.2 120.2  
160 45.6 36.9 55.3

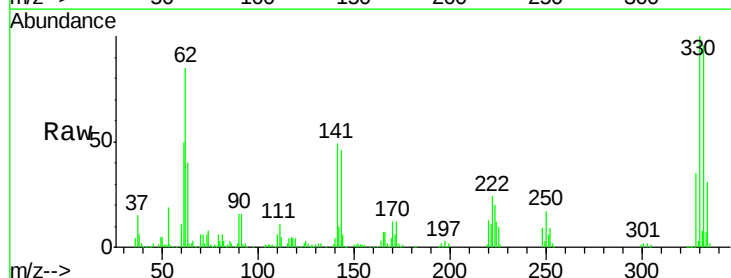


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

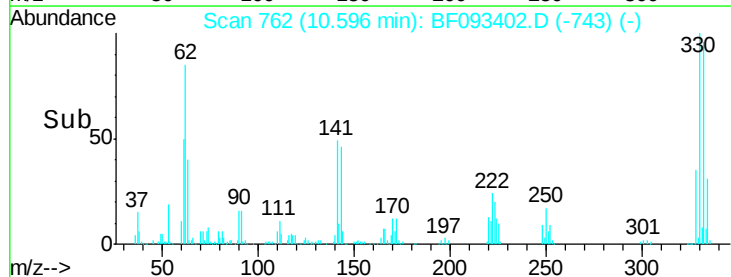
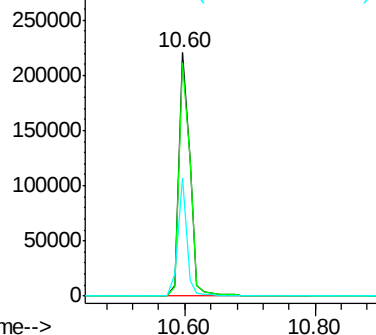


#41  
2,4,6-Tribromophenol  
Concen: 92.94 ng  
RT: 10.60 min Scan# 762  
Delta R.T. -0.09 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Tgt Ion:330 Resp: 259560  
Ion Ratio Lower Upper  
330 100  
332 97.4 77.4 116.2  
141 39.5 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

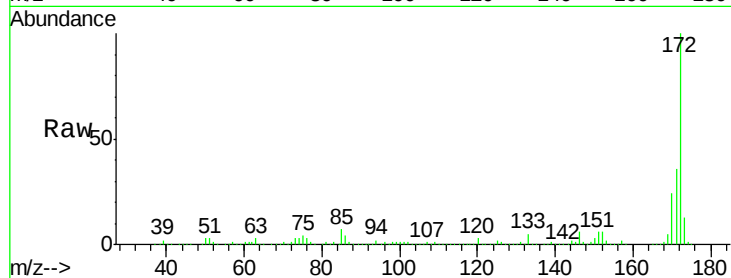




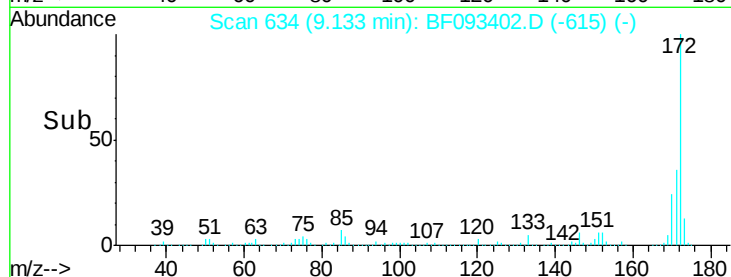
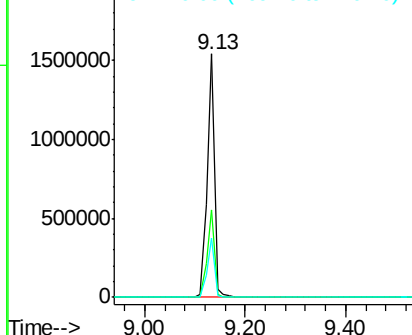
#44  
2-Fluorobiphenyl  
Concen: 72.56 ng  
RT: 9.13 min Scan# 634  
Delta R.T. -0.09 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Instrument :  
BNA\_F  
ClientSampleId :  
RF-1

Tot Ion:172 Resp: 1546507  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.4 44.0  
170 24.5 20.2 30.4

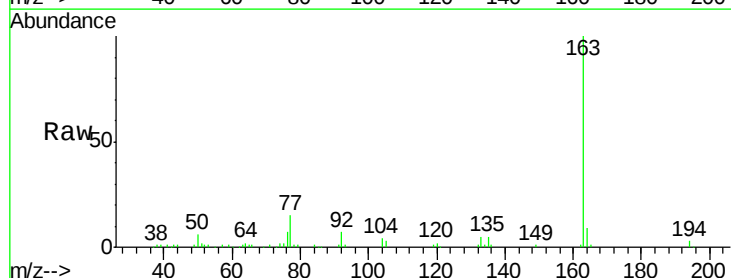


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

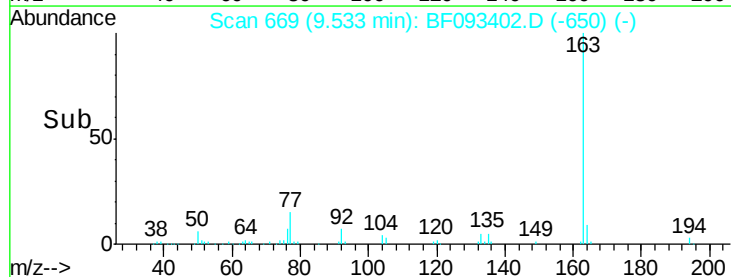
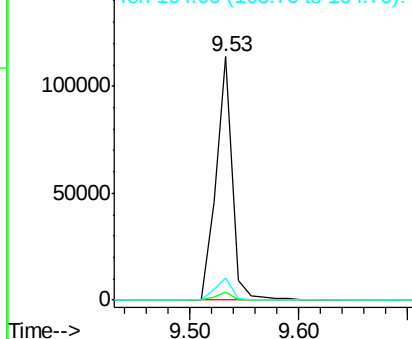


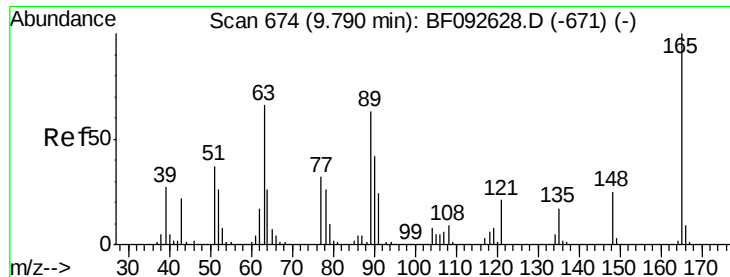
#49  
Dimethylphthalate  
Concen: 4.61 ng  
RT: 9.53 min Scan# 669  
Delta R.T. -0.09 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Tgt Ion:163 Resp: 119901  
Ion Ratio Lower Upper  
163 100  
194 3.5 3.0 4.4  
164 9.2 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

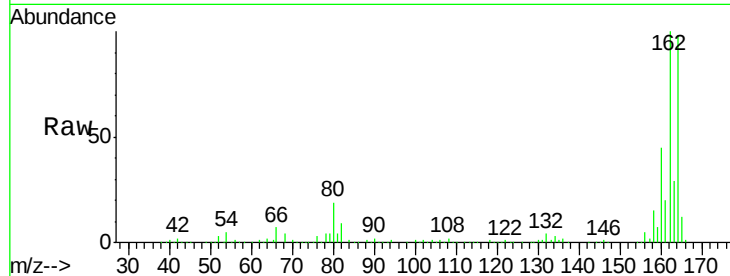




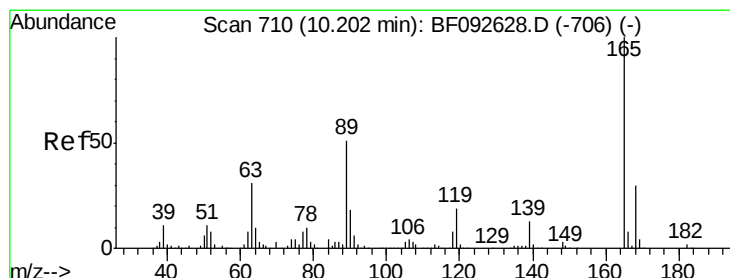
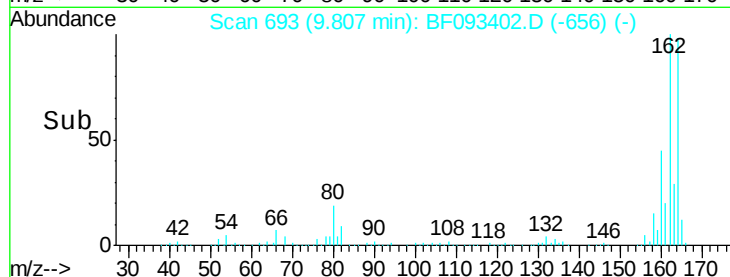
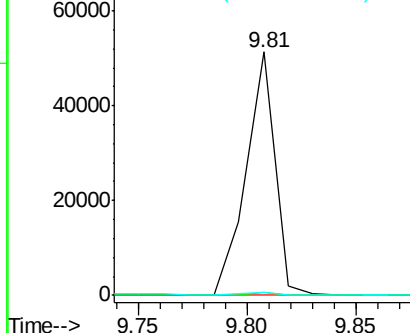
#50  
2,6-Dinitrotoluene  
Concen: 8.46 ng  
RT: 9.81 min Scan# 693  
Delta R.T. 0.12 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Instrument :  
BNA\_F  
ClientSampleId :  
RF-1

Tot Ion:165 Resp: 47528  
Ion Ratio Lower Upper  
165 100  
63 1.4 36.2 54.4#  
89 1.5 40.2 60.4#

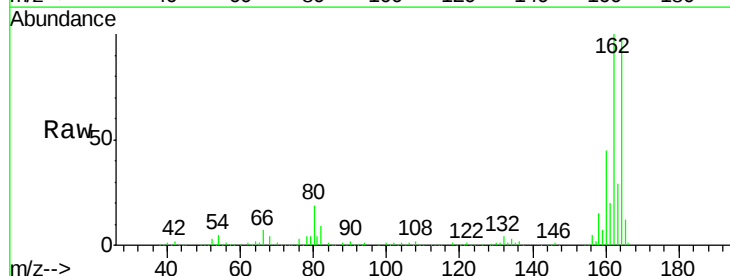


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

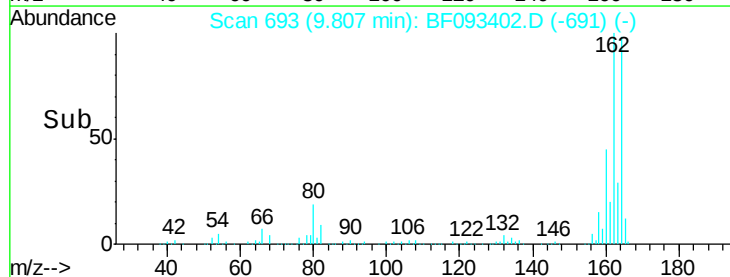
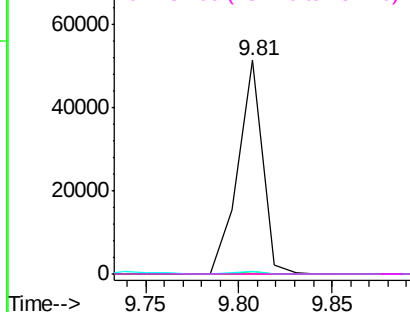


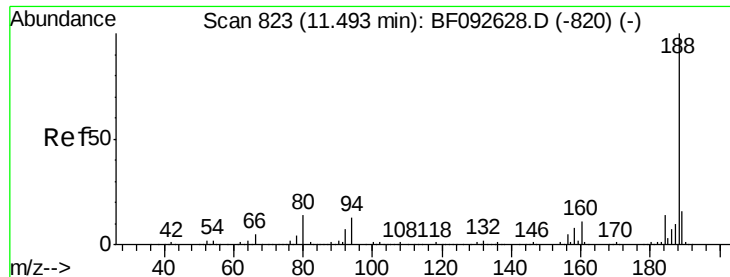
#56  
2,4-Dinitrotoluene  
Concen: 6.36 ng  
RT: 9.81 min Scan# 693  
Delta R.T. -0.28 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Tgt Ion:165 Resp: 47530  
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

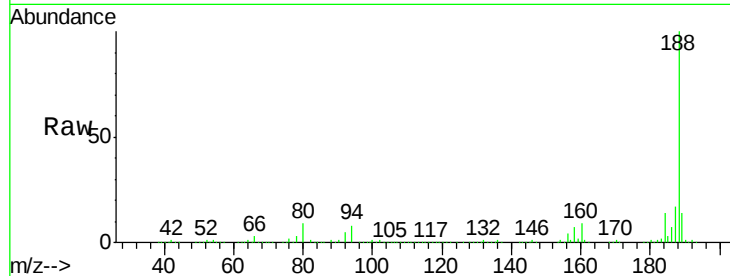




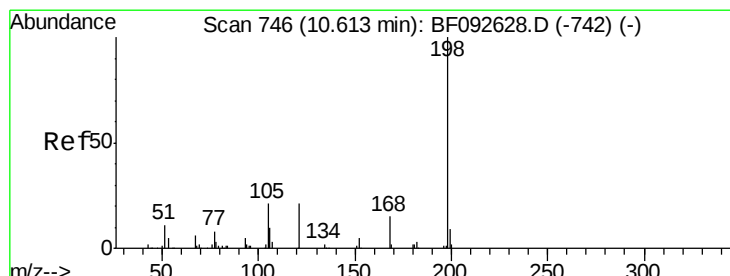
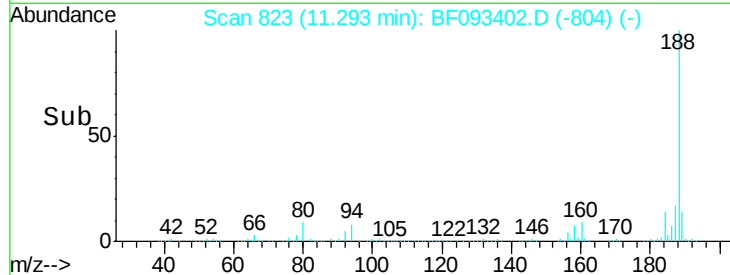
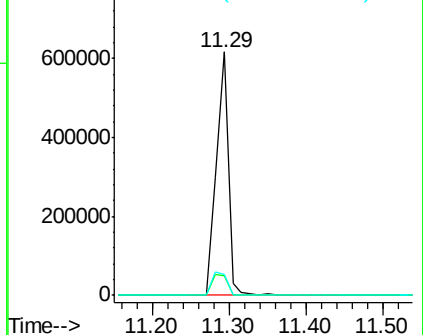
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.29 min Scan# 823  
Delta R.T. -0.09 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Instrument :  
BNA\_F  
ClientSampleId :  
RF-1

Tot Ion:188 Resp: 664636  
Ion Ratio Lower Upper  
188 100  
94 8.2 10.0 15.0#  
80 8.7 11.2 16.8#

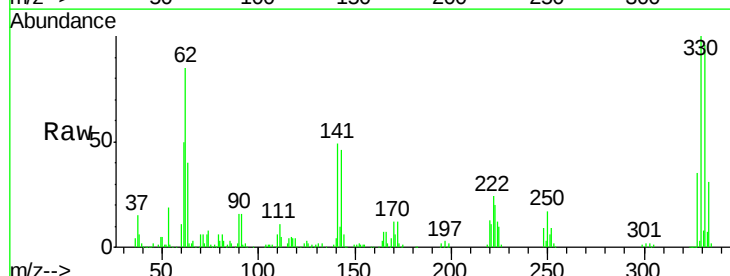


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

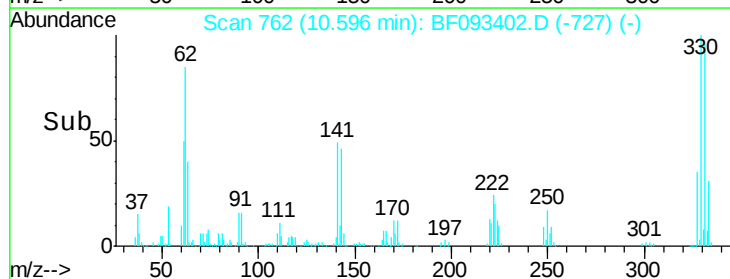
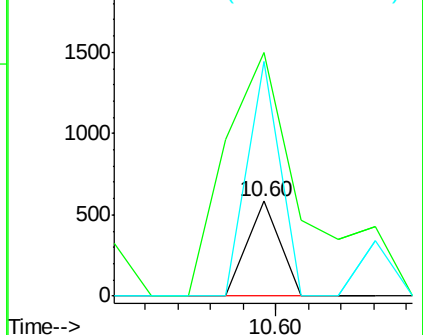


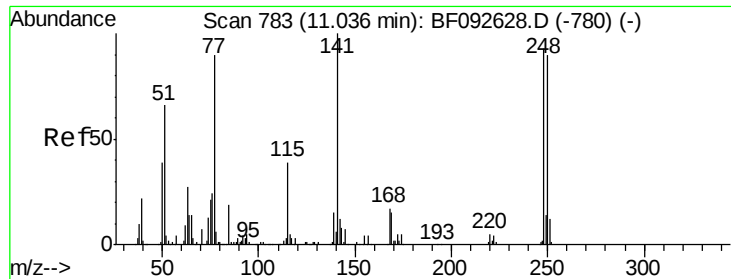
#64  
4,6-Dinitro-2-methylphenol  
Concen: 2.76 ng  
RT: 10.60 min Scan# 762  
Delta R.T. 0.10 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Tgt Ion:198 Resp: 399  
Ion Ratio Lower Upper  
198 100  
51 257.4 6.7 46.7#  
105 247.4 16.6 56.6#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 105.00 (104.70 to 105.70): E

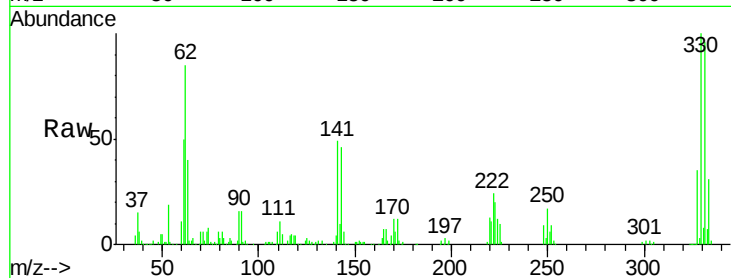




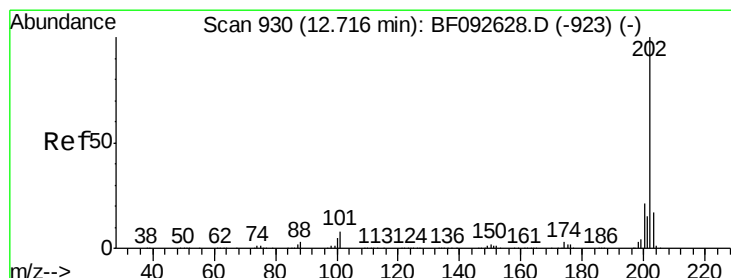
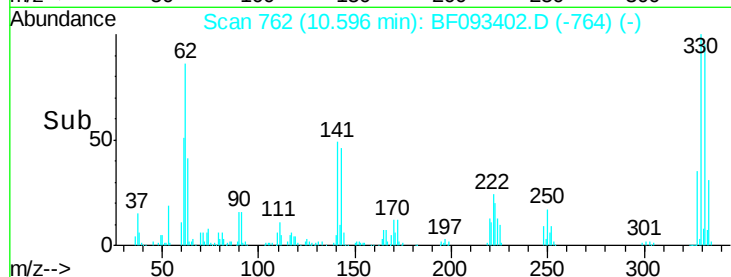
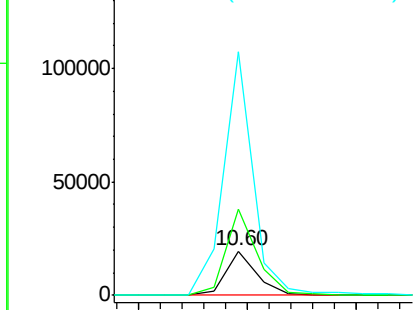
#66  
4-Bromophenyl-phenylether  
Concen: 2.72 ng  
RT: 10.60 min Scan# 762  
Delta R.T. -0.33 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Instrument :  
BNA\_F  
ClientSampleId :  
RF-1

Tot Ion:248 Resp: 18901  
Ion Ratio Lower Upper  
248 100  
250 195.9 76.9 115.3#  
141 552.7 68.2 102.4#

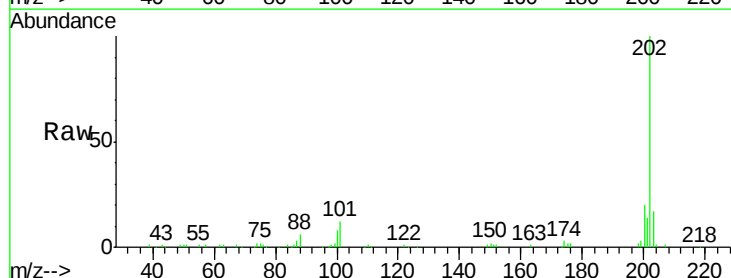


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

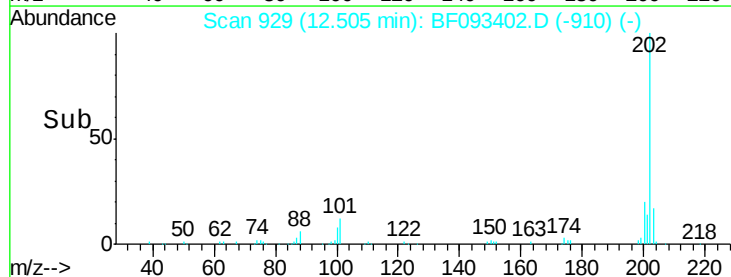
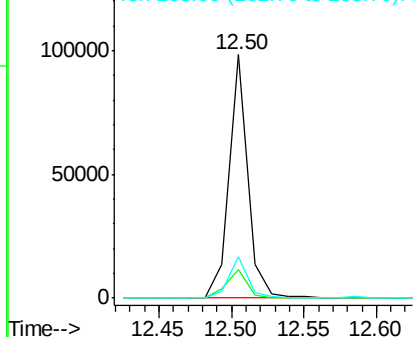


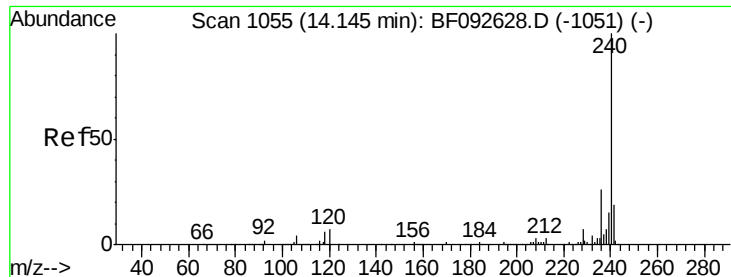
#74  
Fluoranthene  
Concen: 2.24 ng  
RT: 12.50 min Scan# 929  
Delta R.T. -0.09 min  
Lab File: BF093402.D  
Acq: 6 Mar 2017 15:55

Tgt Ion:202 Resp: 88098  
Ion Ratio Lower Upper  
202 100  
101 11.6 0.0 34.6  
203 17.1 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: 13.93 min Scan# 1054

Delta R.T. -0.09 min

Lab File: BF093402.D

Acq: 6 Mar 2017 15:55

Instrument :

BNA\_F

ClientSampleId :

RF-1

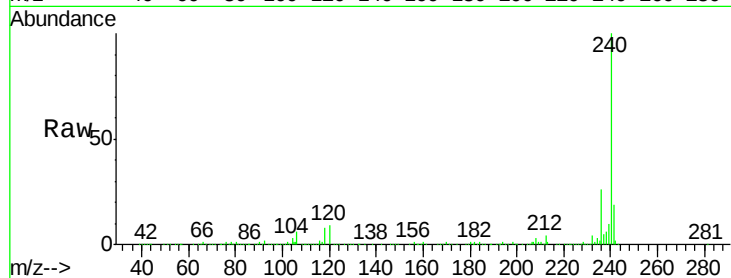
Tot Ion:240 Resp: 489323

Ion Ratio Lower Upper

240 100

120 8.6 12.9 19.3#

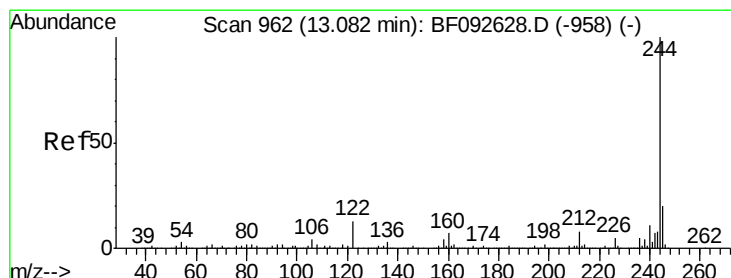
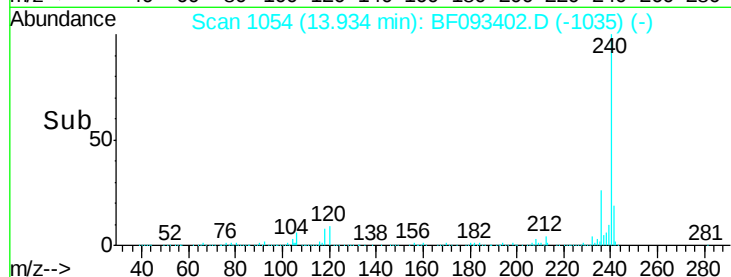
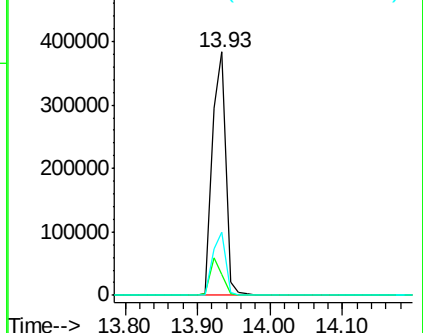
236 26.2 20.9 31.3



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: 58.65 ng

RT: 12.87 min Scan# 961

Delta R.T. -0.10 min

Lab File: BF093402.D

Acq: 6 Mar 2017 15:55

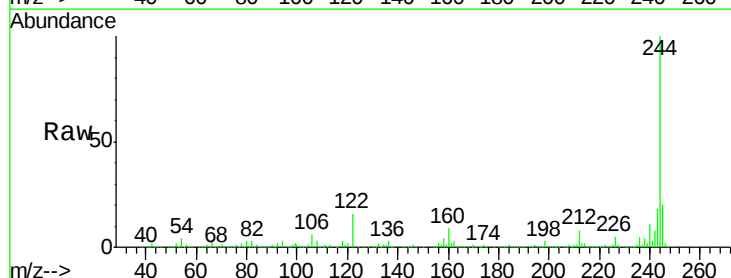
Tgt Ion:244 Resp: 1221496

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

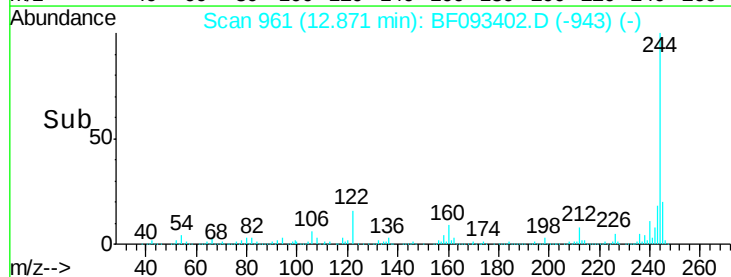
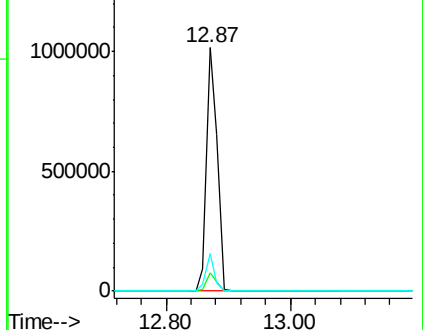
122 15.6 11.4 17.2

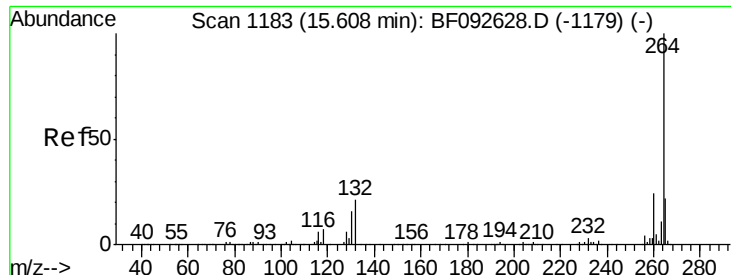


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

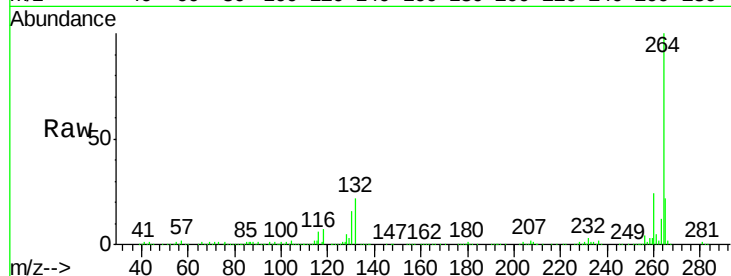




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.34 min Scan# 1177  
 Delta R.T. -0.11 min  
 Lab File: BF093402.D  
 Acq: 6 Mar 2017 15:55

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RF-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 19.2  | 28.8  |
| 265     | 21.7  | 17.4  | 26.0  |



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

