

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011017\  
 Data File : BF092175.D  
 Acq On : 10 Jan 2017 12:12  
 Operator : UM/SJ  
 Sample : I1055-06  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 10 13:53:29 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

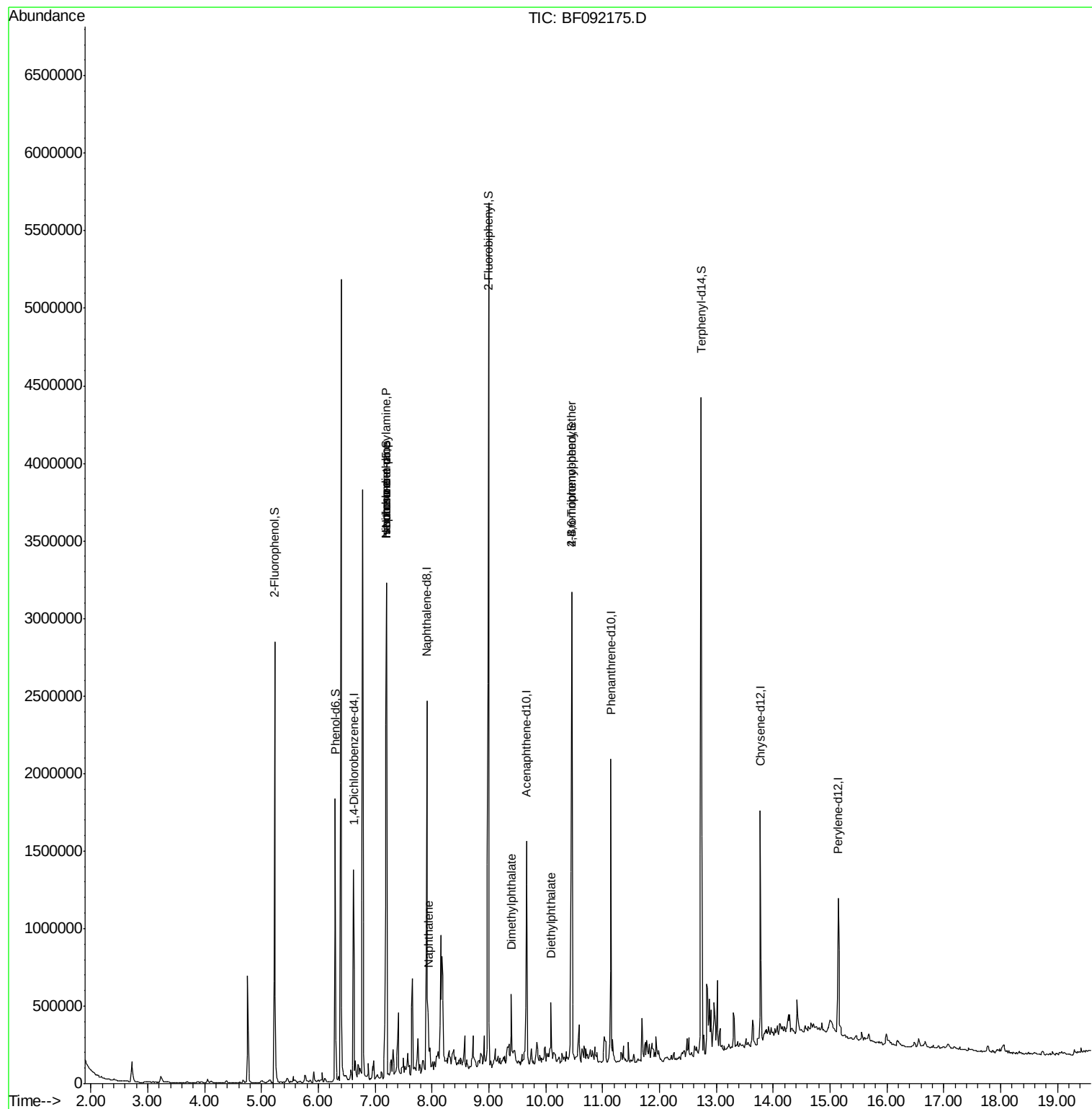
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.62  | 152  | 250964   | 20.00     | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.91  | 136  | 1160948  | 20.00     | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.66  | 164  | 480586   | 20.00     | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.14 | 188  | 774119   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.77 | 240  | 550340   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.15 | 264  | 440080   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.24  | 112  | 832281   | 55.37     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.30  | 99   | 788410   | 42.96     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.20  | 82   | 1543177  | 73.91     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.46 | 330  | 408850   | 102.80    | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.00  | 172  | 2242953  | 97.53     | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.73 | 244  | 1627218  | 71.71     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.17  | 77   | 1235     | Below Cal | #     | 74       |
| 18) Hexachloroethane           | 7.20  | 117  | 85516    | 12.42     | ng    | # 16     |
| 19) n-Nitroso-di-n-propylamine | 7.20  | 70   | 205925   | 16.87     | ng    | # 74     |
| 25) Isophorone                 | 7.20  | 82   | 1287402  | 33.42     | ng    | # 65     |
| 31) Naphthalene                | 7.93  | 128  | 109191   | 2.06      | ng    | # 96     |
| 37) 2-Methylnaphthalene        | 8.63  | 142  | 14901    | Below Cal |       | 96       |
| 49) Dimethylphthalate          | 9.40  | 163  | 228351   | 7.43      | ng    | 99       |
| 59) Diethylphthalate           | 10.09 | 149  | 133916   | 4.49      | ng    | 99       |
| 66) 4-Bromophenyl-phenylether  | 10.46 | 248  | 26103    | 3.24      | ng    | # 1      |
| 71) Anthracene                 | 11.22 | 178  | 785      | Below Cal | #     | 1        |
| 73) Di-n-butylphthalate        | 11.72 | 149  | 13839    | Below Cal | #     | 89       |
| 74) Fluoranthene               | 12.36 | 202  | 4173     | Below Cal |       | 64       |
| 76) Benzidine                  | 12.47 | 184  | 1511     | Below Cal | #     | 1        |

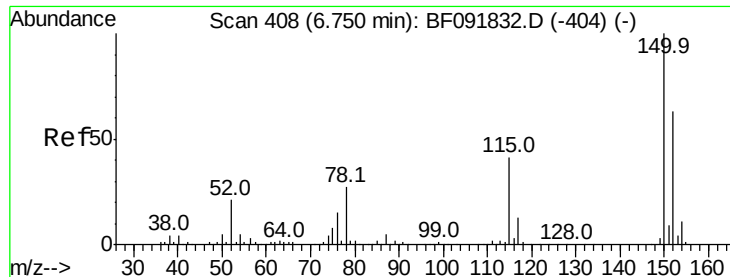
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jan 06 15:43:51 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 414

Delta R.T. -0.02 min

Lab File: BF092175.D

Acq: 10 Jan 2017 12:12

Instrument :

BNA\_F

ClientSampleId :

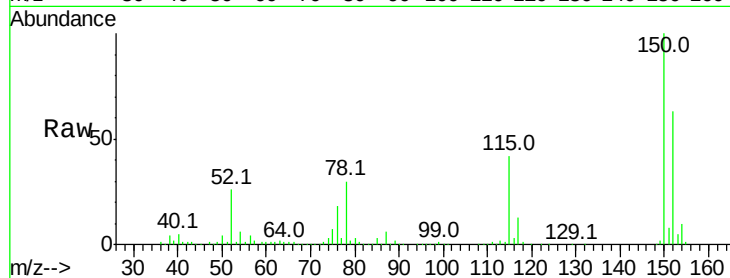
Tot Ion:152 Resp: 250964

Ion Ratio Lower Upper

152 100

150 158.1 124.9 187.3

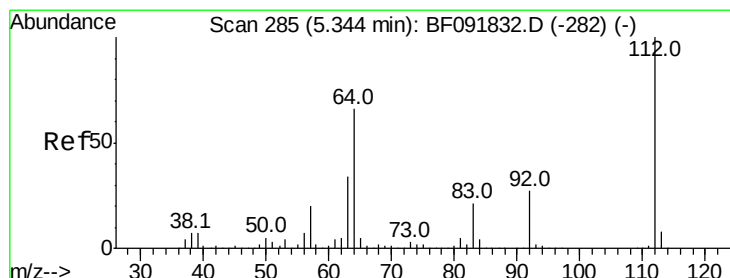
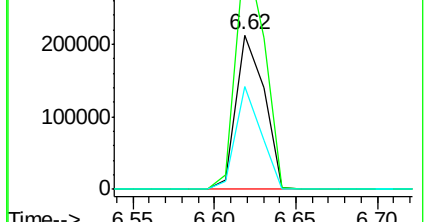
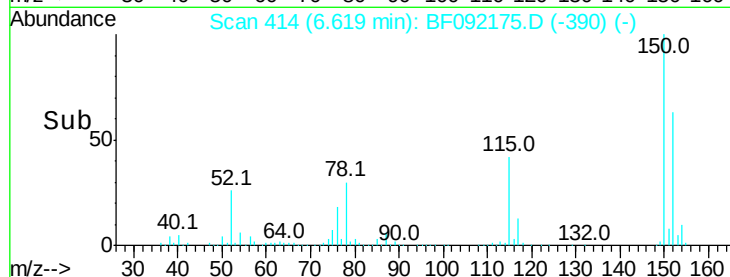
115 67.1 46.0 69.0



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: 55.37 ng

RT: 5.24 min Scan# 293

Delta R.T. -0.00 min

Lab File: BF092175.D

Acq: 10 Jan 2017 12:12

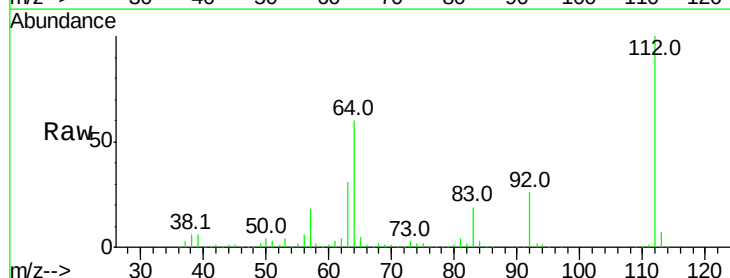
Tgt Ion:112 Resp: 832281

Ion Ratio Lower Upper

112 100

64 60.5 46.1 69.1

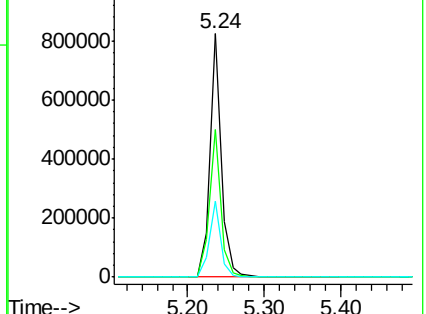
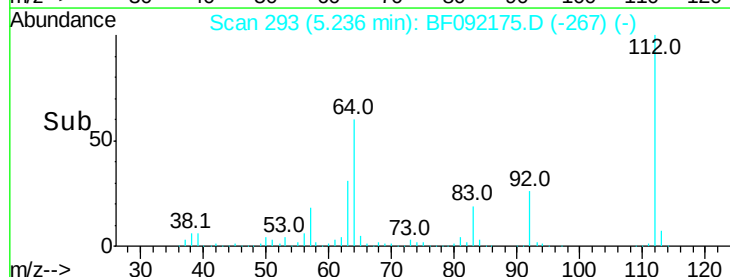
63 31.0 23.8 35.6

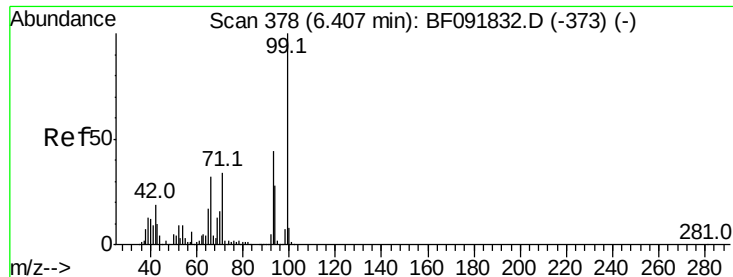


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 42.96 ng

RT: 6.30 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF092175.D

Acq: 10 Jan 2017 12:12

Instrument :

BNA\_F

ClientSampleId :

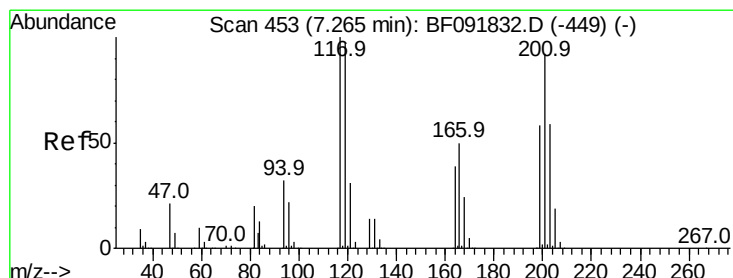
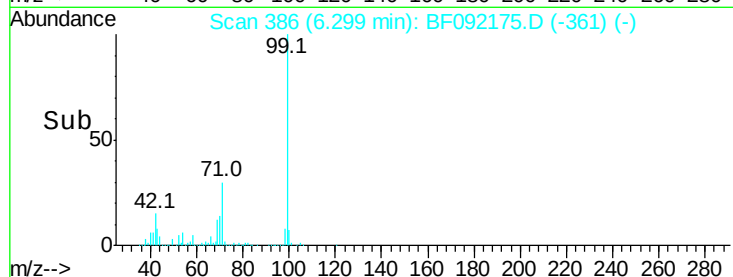
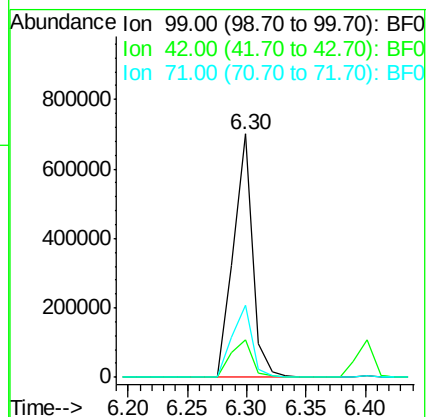
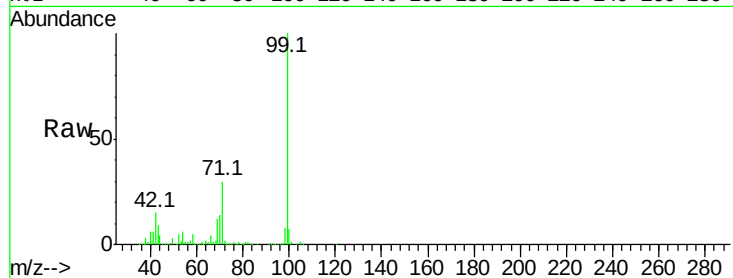
Tot Ion: 99 Resp: 788410

Ion Ratio Lower Upper

99 100

42 15.4 15.6 23.4#

71 29.6 27.5 41.3



#18

Hexachloroethane

Concen: 12.42 ng

RT: 7.20 min Scan# 465

Delta R.T. 0.05 min

Lab File: BF092175.D

Acq: 10 Jan 2017 12:12

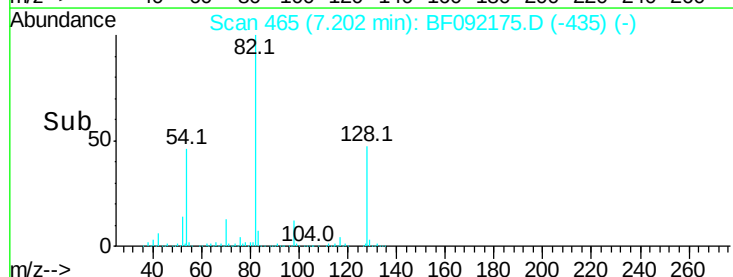
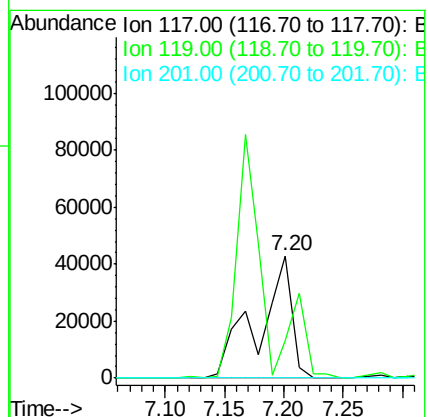
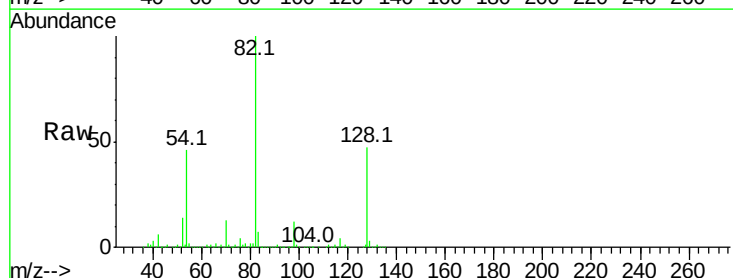
Tgt Ion: 117 Resp: 85516

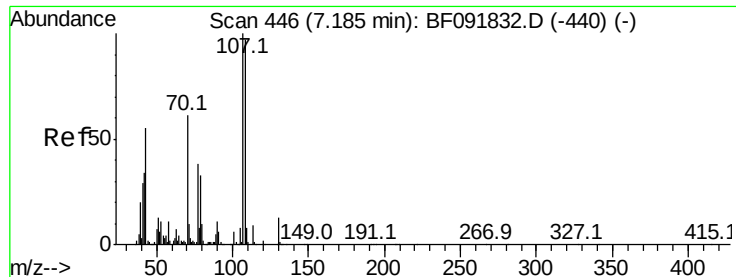
Ion Ratio Lower Upper

117 100

119 30.7 78.1 117.1#

201 0.0 78.6 117.8#





#19

n-Nitroso-di-n-propylamine

Concen: 16.87 ng

RT: 7.20 min Scan# 465

Delta R.T. 0.13 min

Lab File: BF092175.D

Acq: 10 Jan 2017 12:12

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 205925

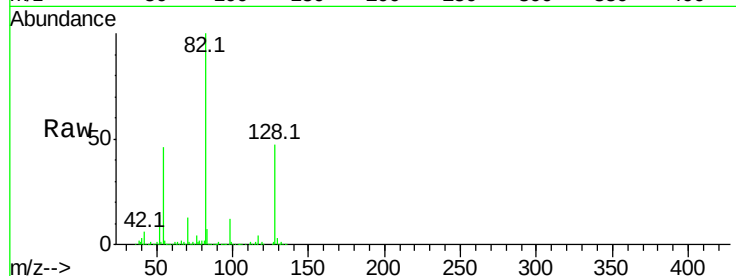
Ion Ratio Lower Upper

70 100

42 43.0 49.4 74.0#

101 0.0 7.4 11.2#

130 2.7 14.2 21.4#

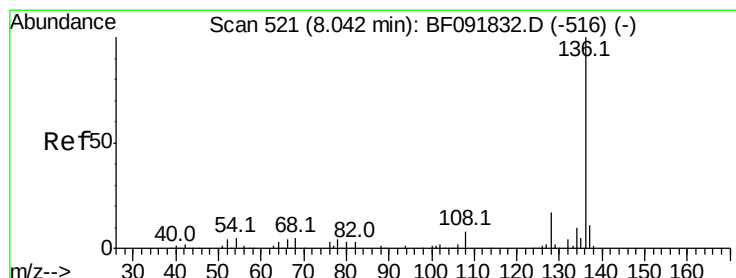
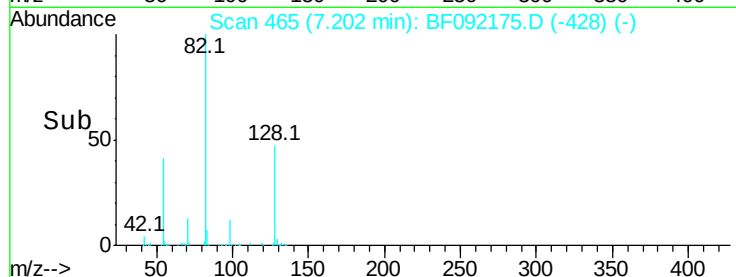
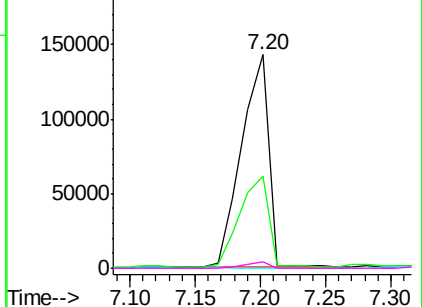


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.91 min Scan# 527

Delta R.T. -0.02 min

Lab File: BF092175.D

Acq: 10 Jan 2017 12:12

Tgt Ion: 136 Resp: 1160948

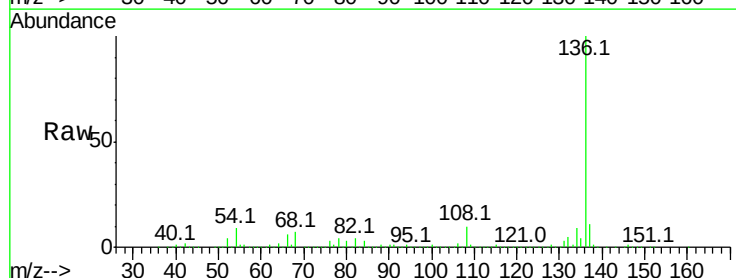
Ion Ratio Lower Upper

136 100

137 11.4 8.4 12.6

54 8.6 4.5 6.7#

68 7.0 3.6 5.4#

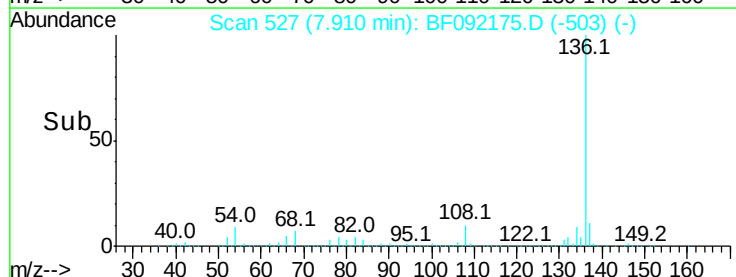
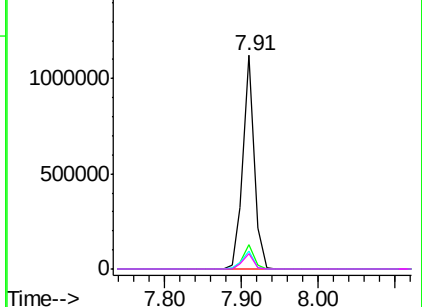


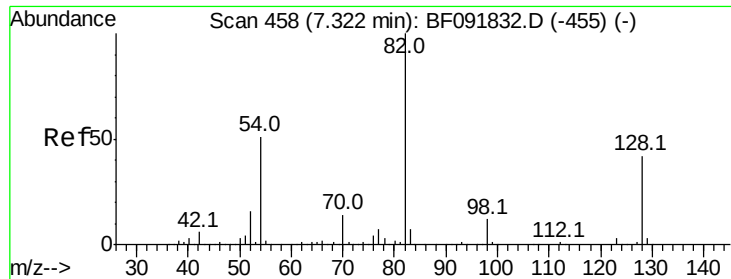
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

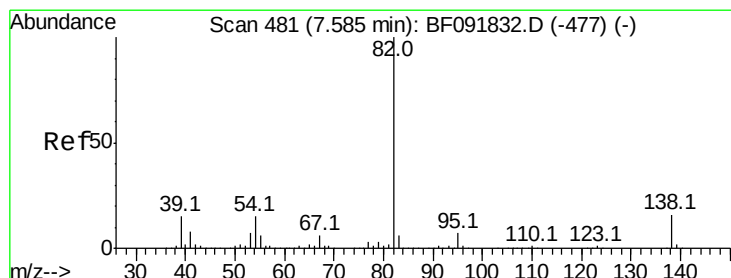
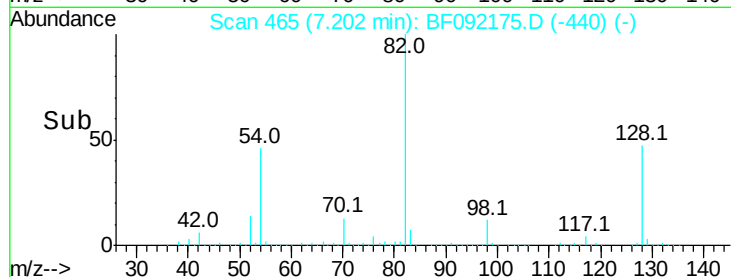
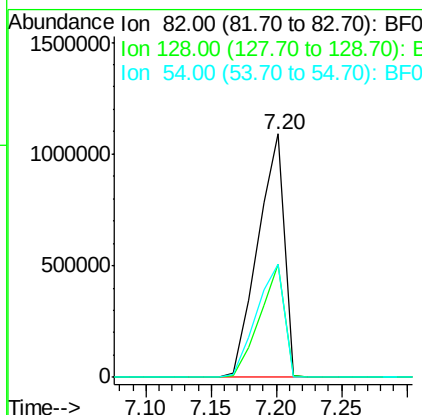
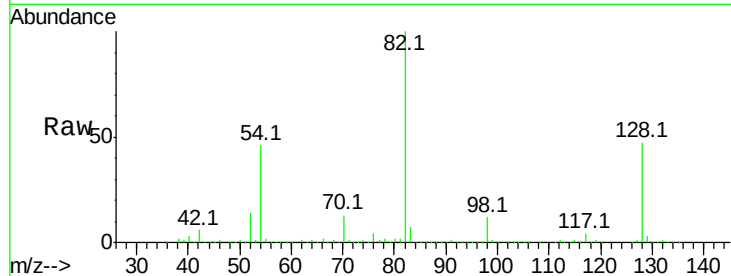




#23  
Nitrobenzene-d5  
Concen: 73.91 ng  
RT: 7.20 min Scan# 465  
Delta R.T. -0.01 min  
Lab File: BF092175.D  
Acq: 10 Jan 2017 12:12

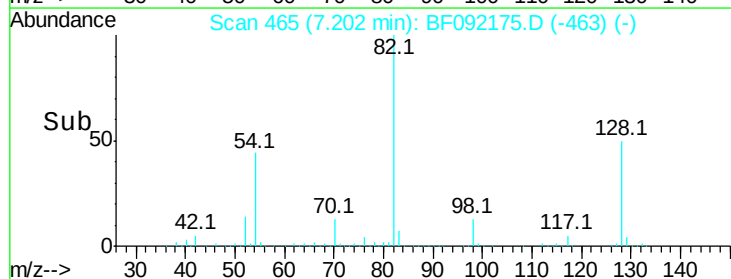
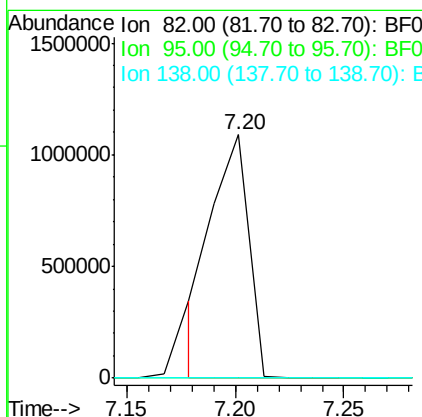
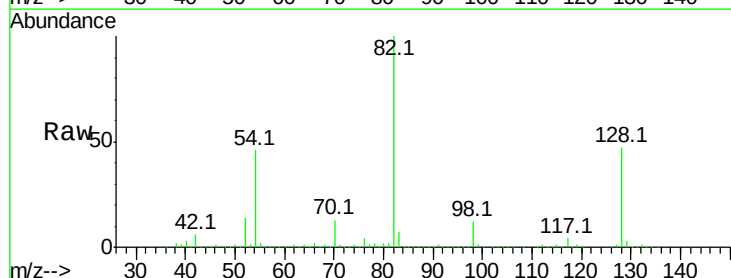
Instrument :  
BNA\_F  
ClientSampled :

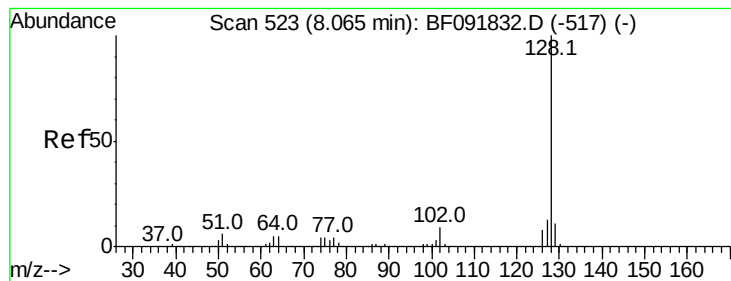
Tot Ion: 82 Resp: 1543177  
Ion Ratio Lower Upper  
82 100  
128 46.7 34.6 52.0  
54 46.3 39.5 59.3



#25  
Isophorone  
Concen: 33.42 ng  
RT: 7.20 min Scan# 465  
Delta R.T. -0.27 min  
Lab File: BF092175.D  
Acq: 10 Jan 2017 12:12

Tgt Ion: 82 Resp: 1287402  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.6 8.4#  
138 0.0 14.6 22.0#





#31

Naphthalene

Concen: 2.06 ng

RT: 7.93 min Scan# 529

Delta R.T. -0.02 min

Lab File: BF092175.D

Acq: 10 Jan 2017 12:12

Instrument :

BNA\_F

ClientSampleId :

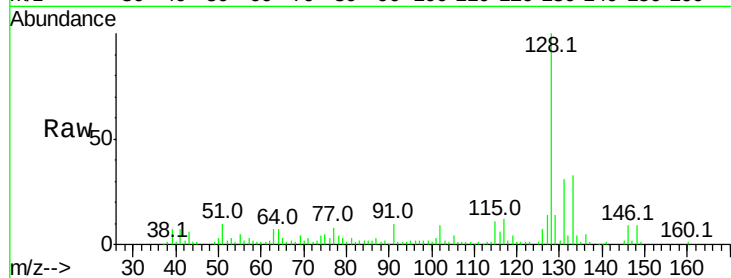
Tot Ion:128 Resp: 109191

Ion Ratio Lower Upper

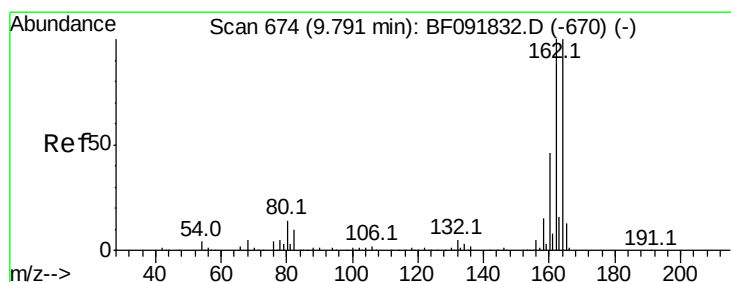
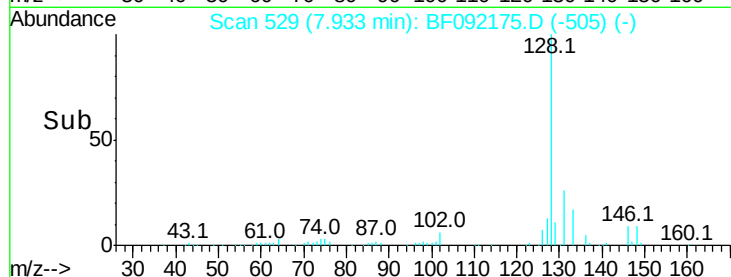
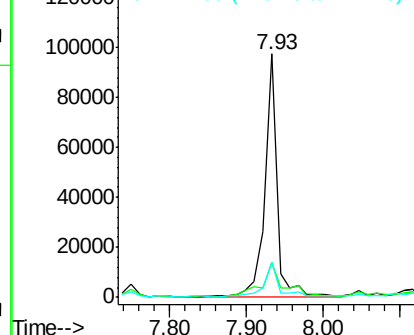
128 100

129 14.3 9.5 14.3#

127 14.5 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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.66 min Scan# 680

Delta R.T. -0.02 min

Lab File: BF092175.D

Acq: 10 Jan 2017 12:12

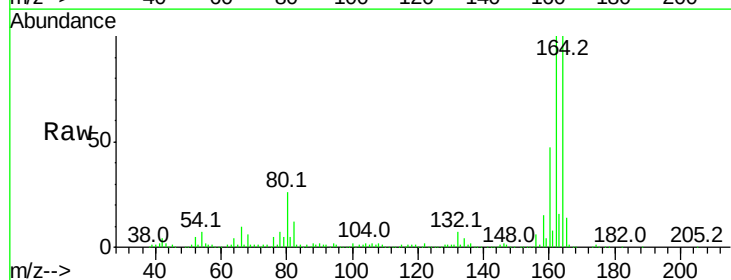
Tgt Ion:164 Resp: 480586

Ion Ratio Lower Upper

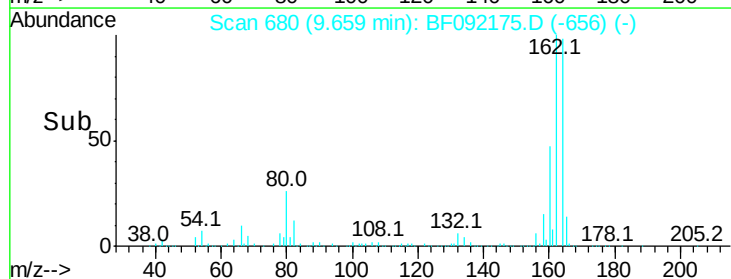
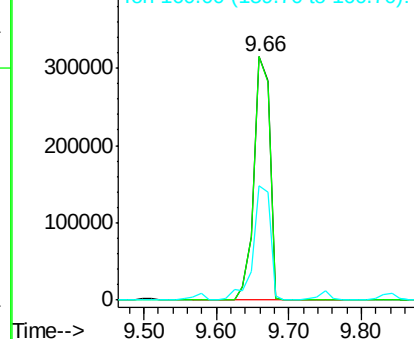
164 100

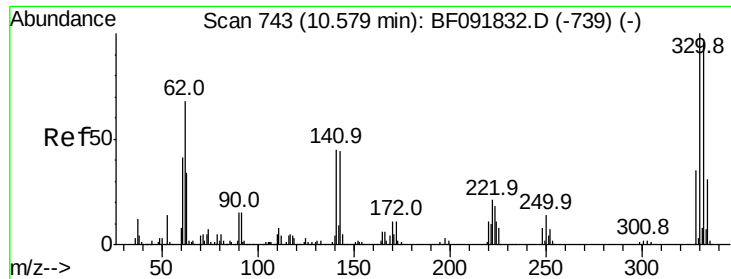
162 99.8 80.2 120.2

160 47.0 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

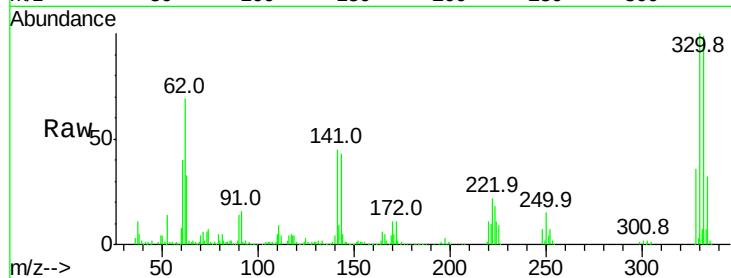




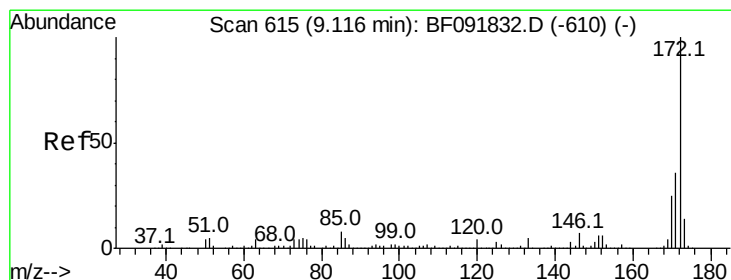
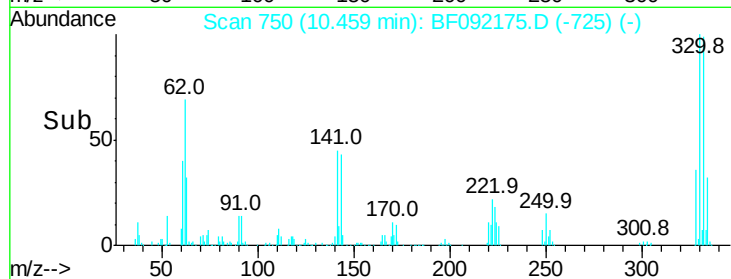
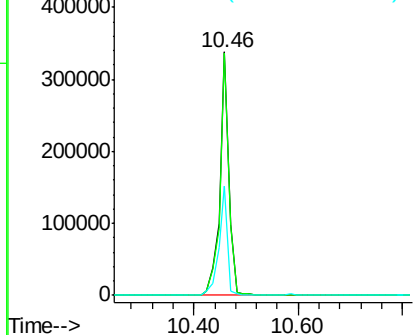
#41  
 2,4,6-Tribromophenol  
 Concen: 102.80 ng  
 RT: 10.46 min Scan# 750  
 Delta R.T. -0.01 min  
 Lab File: BF092175.D  
 Acq: 10 Jan 2017 12:12

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.1  | 77.4  | 116.2 |
| 141     | 41.0  | 34.1  | 51.1  |

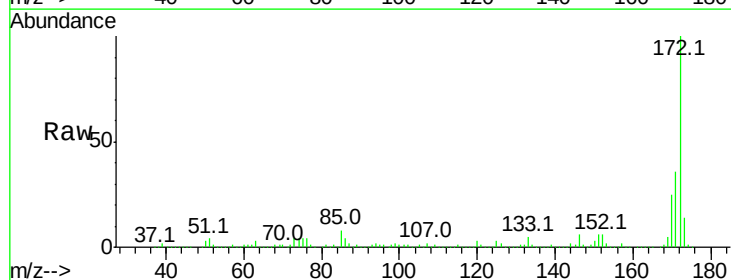


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

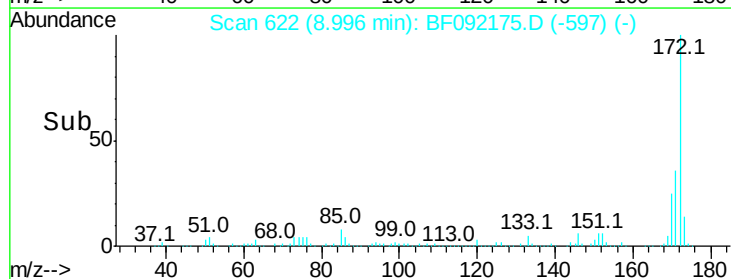
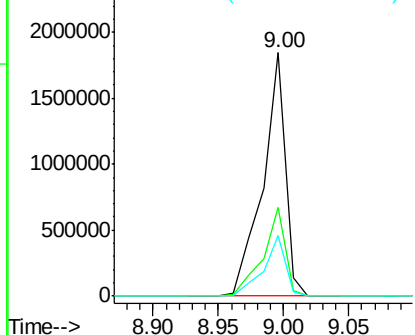


#44  
 2-Fluorobiphenyl  
 Concen: 97.53 ng  
 RT: 9.00 min Scan# 622  
 Delta R.T. -0.01 min  
 Lab File: BF092175.D  
 Acq: 10 Jan 2017 12:12

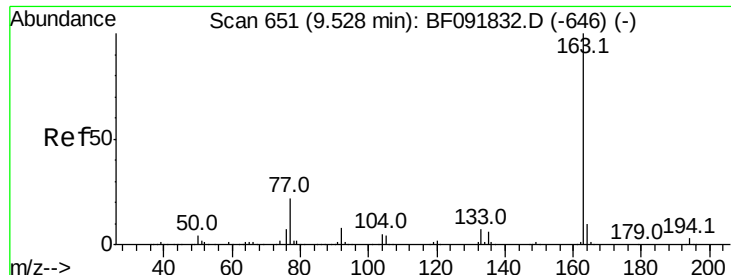
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.4  | 44.0  |
| 170     | 24.8  | 20.2  | 30.4  |



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



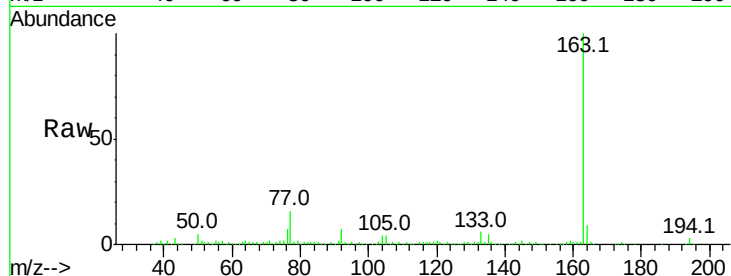




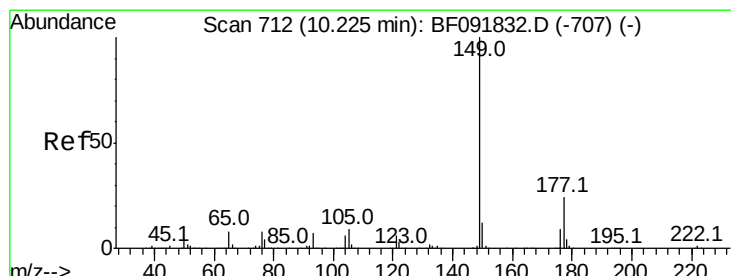
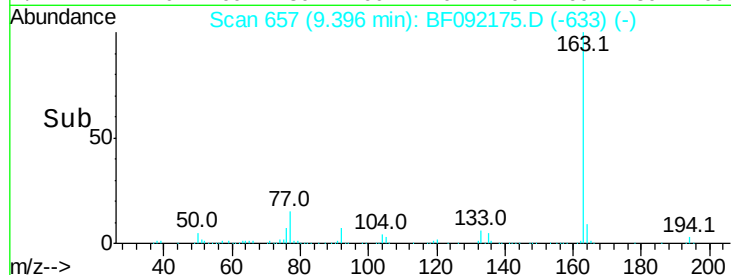
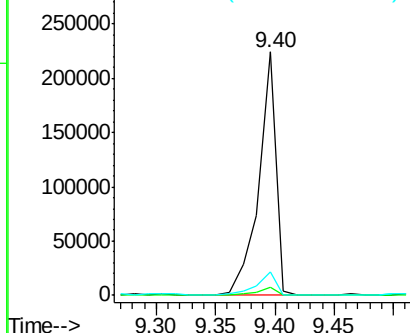
#49  
Dimethylphthalate  
Concen: 7.43 ng  
RT: 9.40 min Scan# 657  
Delta R.T. -0.02 min  
Lab File: BF092175.D  
Acq: 10 Jan 2017 12:12

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 228351  
Ion Ratio Lower Upper  
163 100  
194 3.4 3.0 4.4  
164 9.4 8.0 12.0

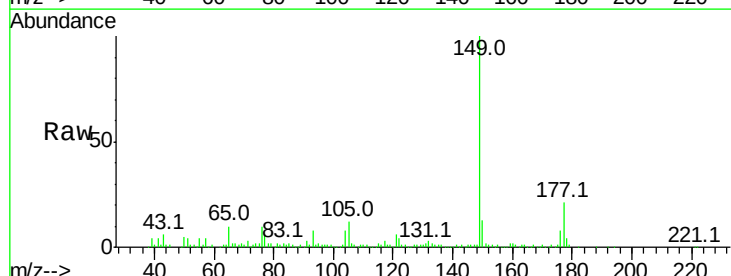


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

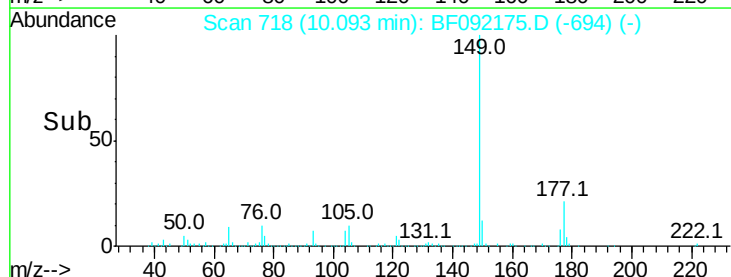
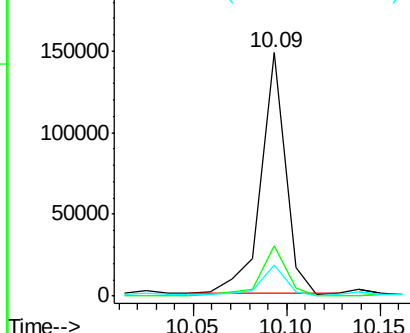


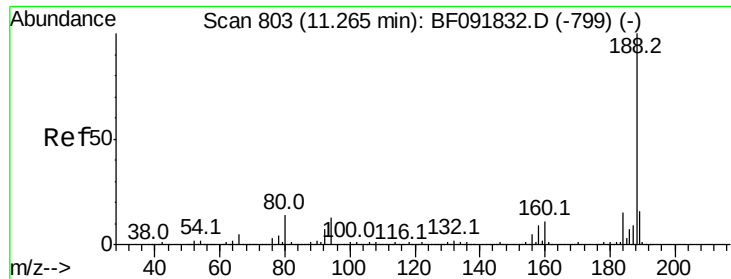
#59  
Diethylphthalate  
Concen: 4.49 ng  
RT: 10.09 min Scan# 718  
Delta R.T. -0.02 min  
Lab File: BF092175.D  
Acq: 10 Jan 2017 12:12

Tgt Ion:149 Resp: 133916  
Ion Ratio Lower Upper  
149 100  
177 20.6 16.6 25.0  
150 12.6 10.4 15.6



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

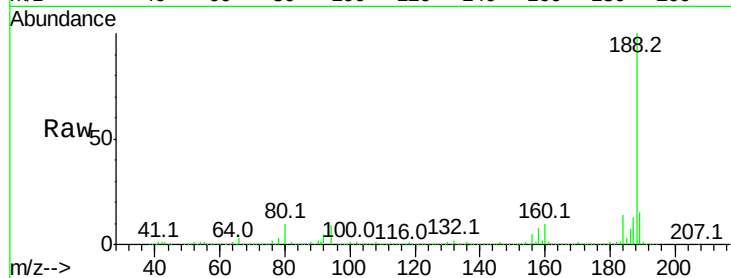




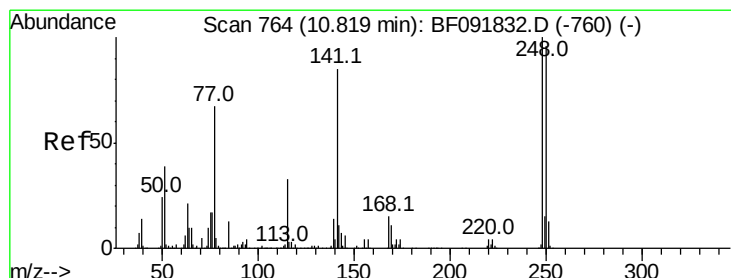
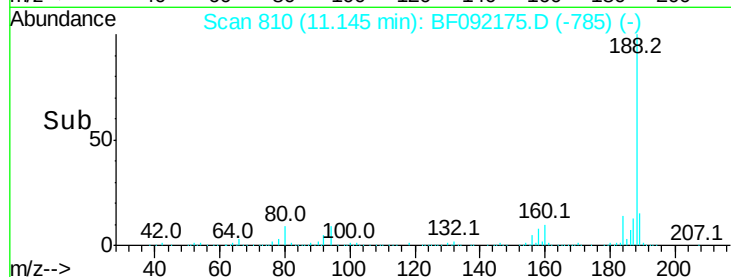
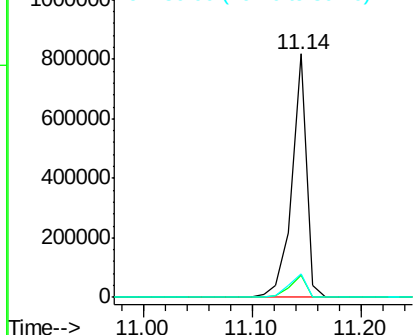
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.14 min Scan# 810  
 Delta R.T. -0.01 min  
 Lab File: BF092175.D  
 Acq: 10 Jan 2017 12:12

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:188 Resp: 774119  
 Ion Ratio Lower Upper  
 188 100  
 94 9.0 10.0 15.0#  
 80 9.6 11.2 16.8#

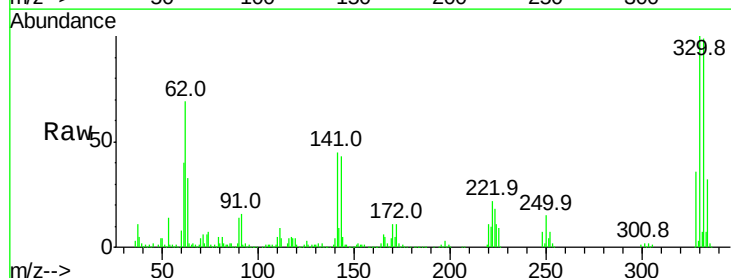


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

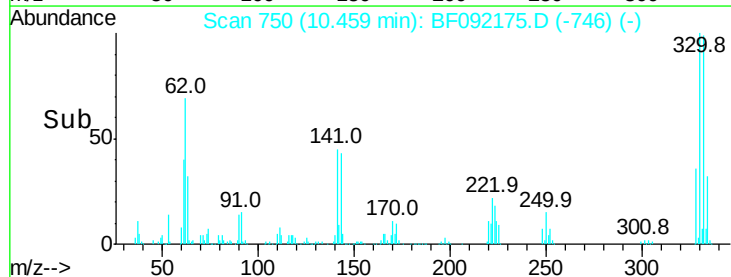
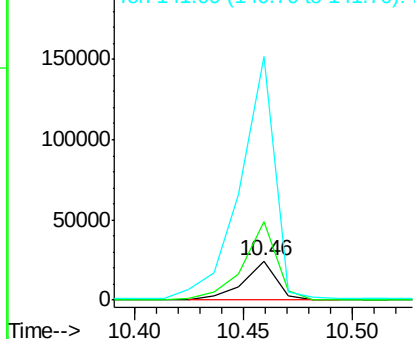


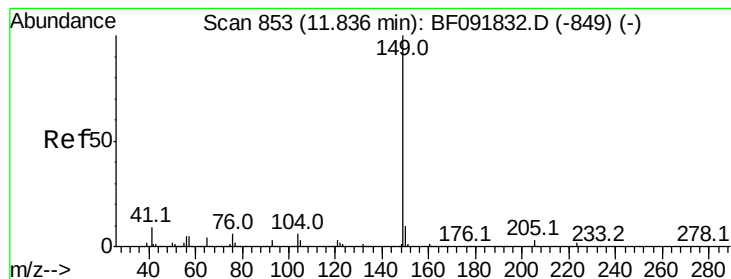
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.24 ng  
 RT: 10.46 min Scan# 750  
 Delta R.T. -0.25 min  
 Lab File: BF092175.D  
 Acq: 10 Jan 2017 12:12

Tgt Ion:248 Resp: 26103  
 Ion Ratio Lower Upper  
 248 100  
 250 202.4 76.9 115.3#  
 141 623.2 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





#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.72 min Scan# 860

Delta R.T. -0.01 min

Lab File: BF092175.D

Acq: 10 Jan 2017 12:12

Instrument :

BNA\_F

ClientSampleId :

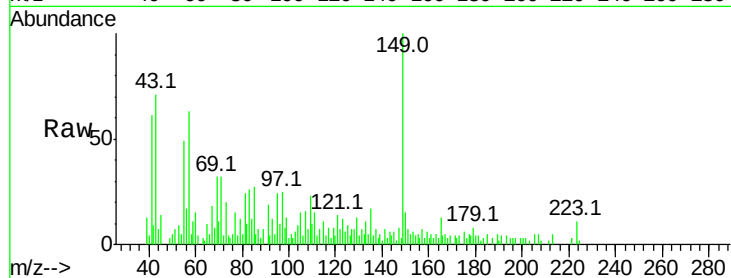
Tot Ion:149 Resp: 13839

Ion Ratio Lower Upper

149 100

150 14.6 8.1 12.1#

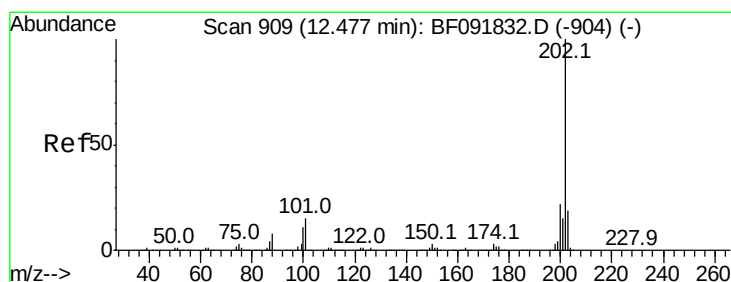
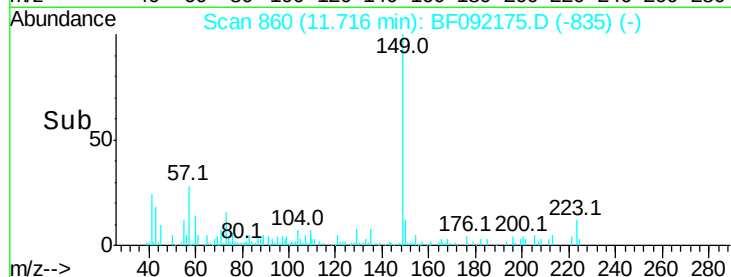
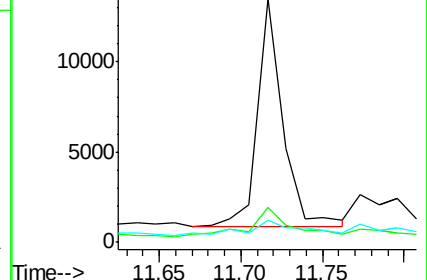
104 9.1 4.6 7.0#



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: BF092175.D

Acq: 10 Jan 2017 12:12

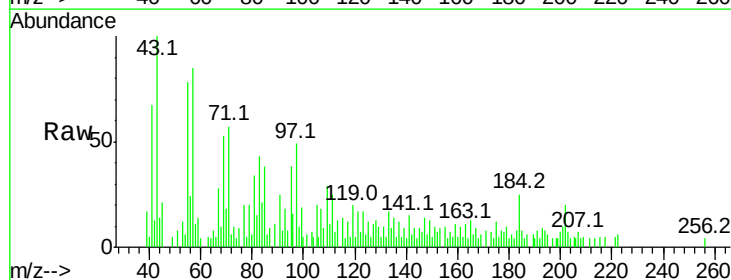
Tgt Ion:202 Resp: 4173

Ion Ratio Lower Upper

202 100

101 28.5 0.0 34.6

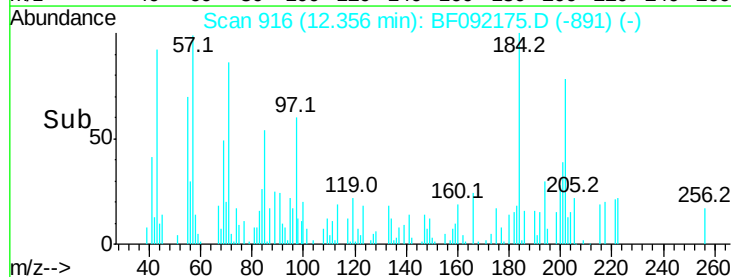
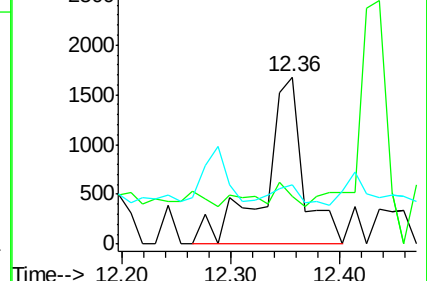
203 35.5 0.0 38.7

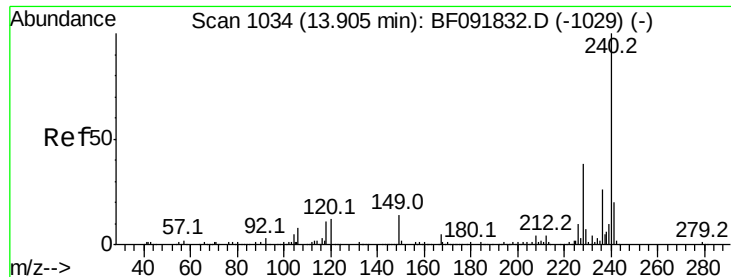


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF092175.D

Acq: 10 Jan 2017 12:12

Instrument :

BNA\_F

ClientSampleId :

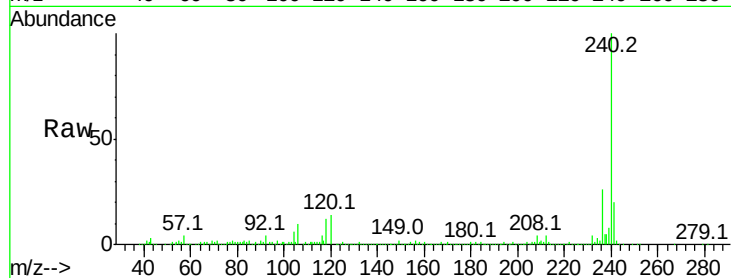
Tot Ion:240 Resp: 550340

Ion Ratio Lower Upper

240 100

120 14.5 12.9 19.3

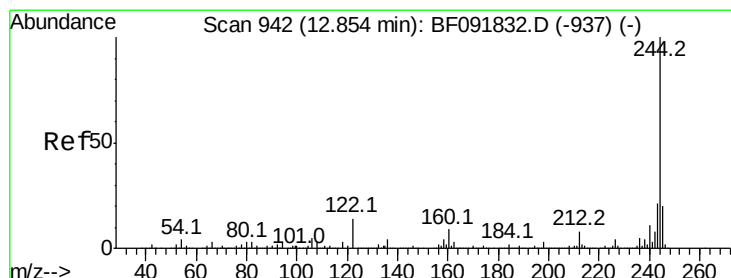
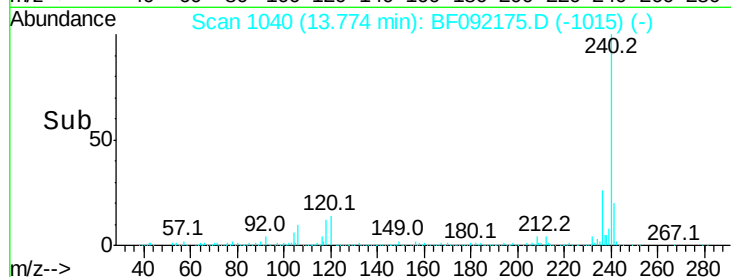
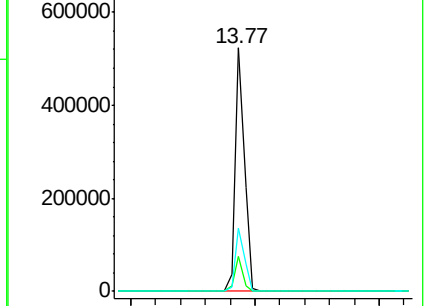
236 26.0 20.9 31.3



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: 71.71 ng

RT: 12.73 min Scan# 949

Delta R.T. -0.01 min

Lab File: BF092175.D

Acq: 10 Jan 2017 12:12

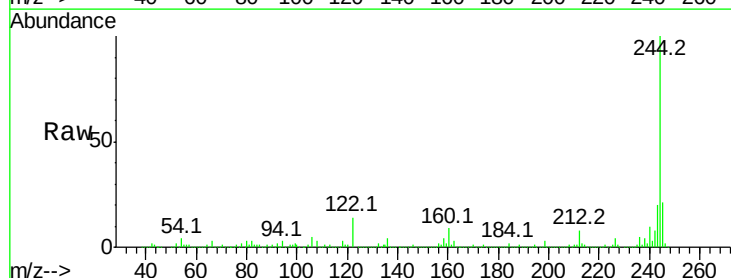
Tgt Ion:244 Resp: 1627218

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

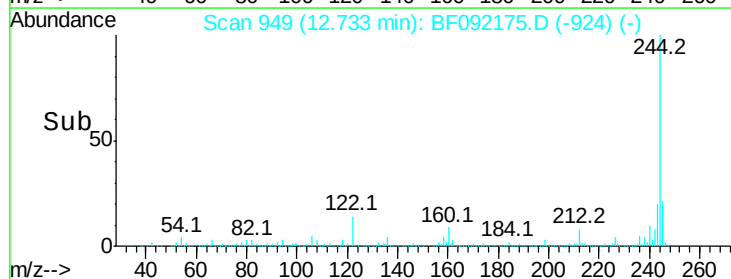
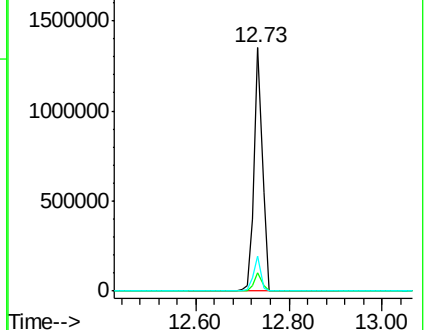
122 14.4 11.4 17.2

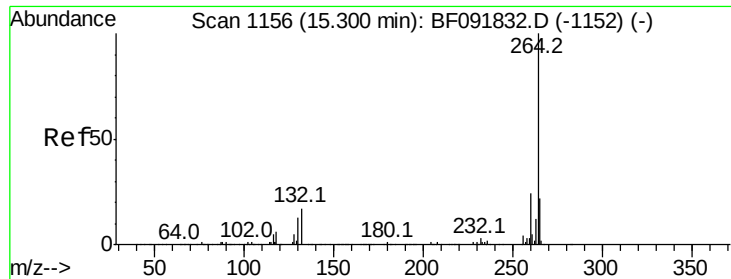


Abundance Ion 244.00 (243.70 to 244.70): E

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: BF092175.D  
Acq: 10 Jan 2017 12:12

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.2  | 28.8  |
| 265     | 22.0  | 17.4  | 26.0  |

