

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031317\  
 Data File : BF093662.D  
 Acq On : 14 Mar 2017 16:49  
 Operator : SJ/MA  
 Sample : I2230-08RE  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Mar 15 02:34:42 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 13 15:05:08 2017  
 Response via : Initial Calibration

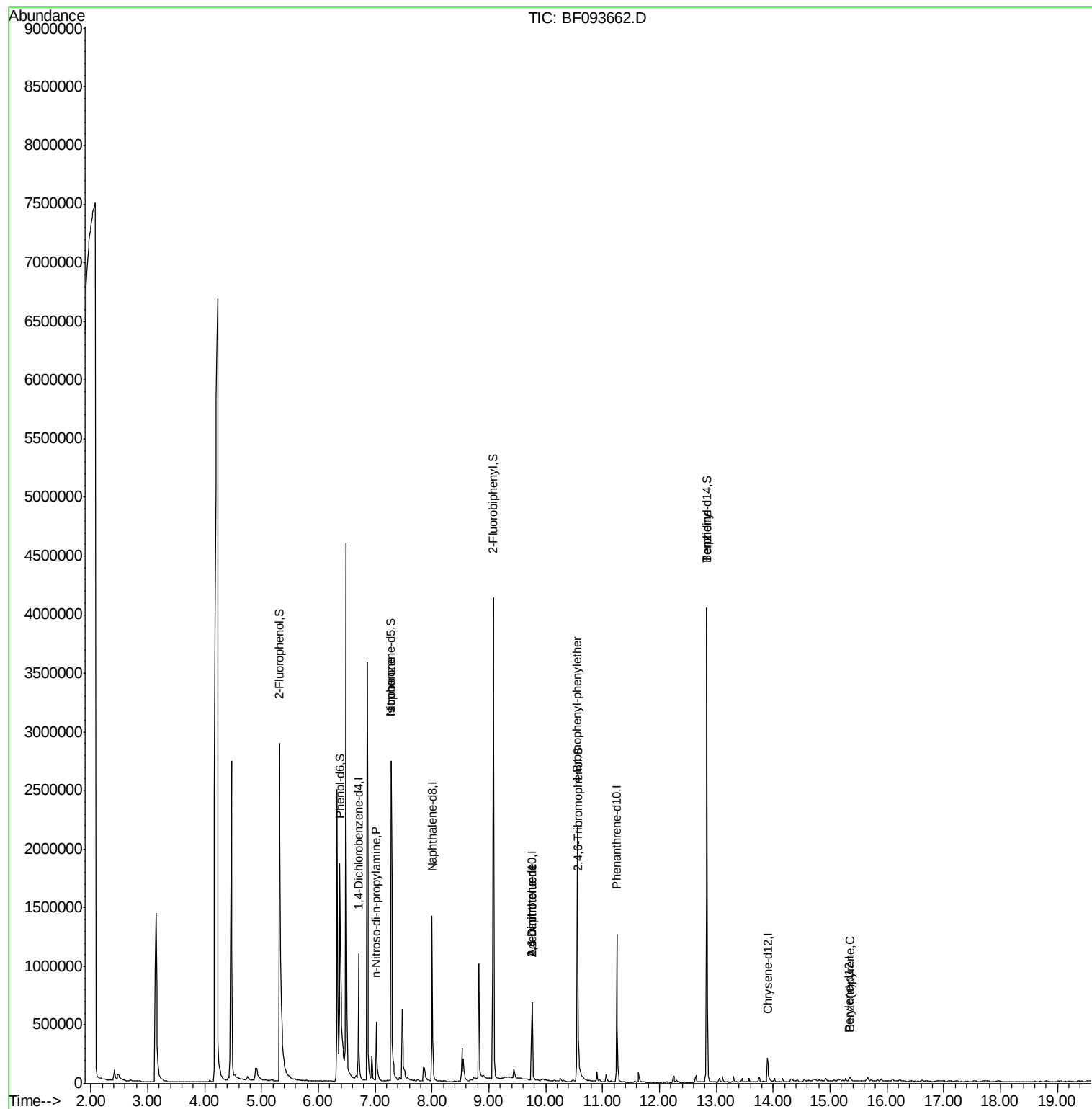
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.71  | 152  | 178089   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.00  | 136  | 661028   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.76  | 164  | 141820   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.25 | 188  | 416133   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.90 | 240  | 55862    | 20.00     | ng    | 0.01     |
| 86) Perylene-d12               | 15.34 | 264  | 1285     | 20.00     | ng    | 0.06     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.32  | 112  | 1553552  | 145.19    | ng    | 0.00     |
| 7) Phenol-d6                   | 6.38  | 99   | 1018755  | 75.50     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.28  | 82   | 1228492  | 103.12    | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 363580   | 393.49    | ng    | 0.01     |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 1972363  | 258.69    | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.84 | 244  | 1009682  | 469.93    | ng    | 0.01     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.31  | 77   | 2851     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.02  | 70   | 27855    | 3.00 ng   | #     | 17       |
| 25) Isophorone                 | 7.28  | 82   | 1212887  | 50.49 ng  | #     | 65       |
| 50) 2,6-Dinitrotoluene         | 9.76  | 165  | 18473    | 8.95 ng   | #     | 34       |
| 56) 2,4-Dinitrotoluene         | 9.76  | 165  | 18473    | 7.29 ng   | #     | 23       |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 25725    | 5.85 ng   | #     | 1        |
| 76) Benzidine                  | 12.84 | 184  | 15804    | 8.60 ng   | #     | 68       |
| 89) Benzo(a)pyrene             | 15.35 | 252  | 309      | 4.32 ng   | #     | 1        |

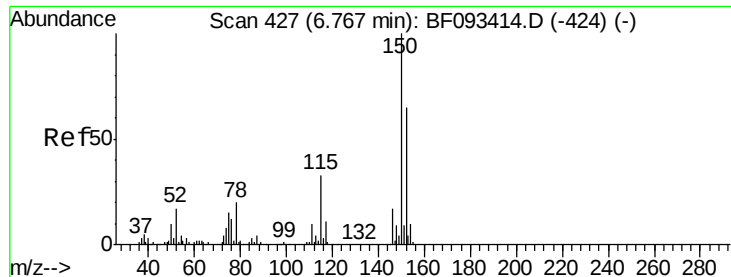
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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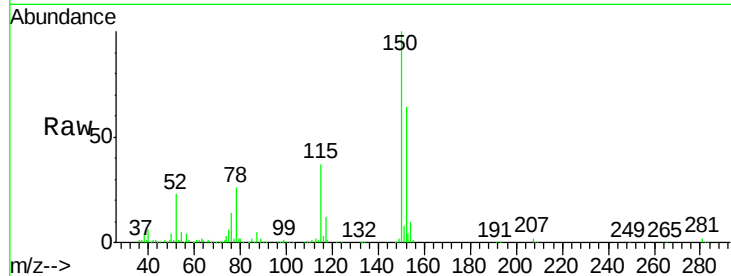


#1

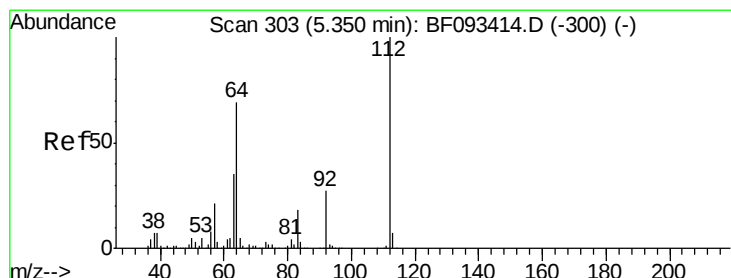
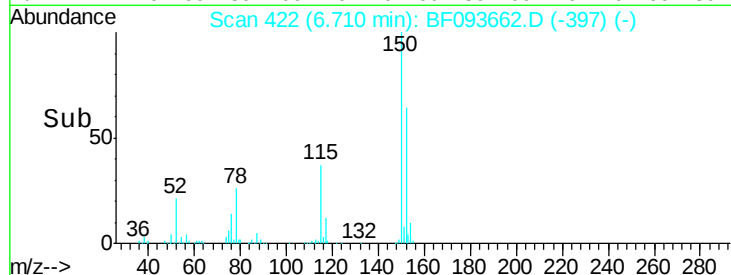
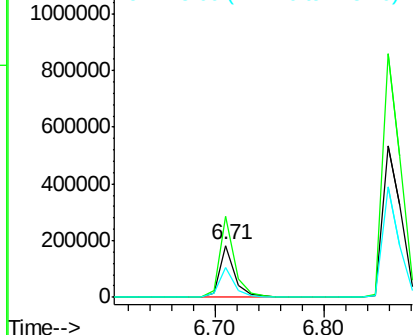
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.71 min Scan# 422  
Delta R.T. -0.01 min  
Lab File: BF093662.D  
Acq: 14 Mar 2017 16:49

Instrument :  
BNA\_M  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.2 | 124.9 | 187.3 |
| 115     | 57.8  | 46.0  | 69.0  |



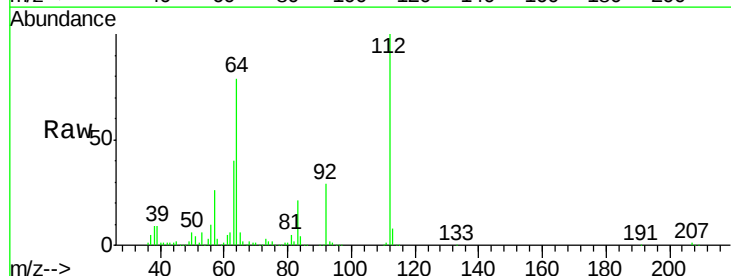
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



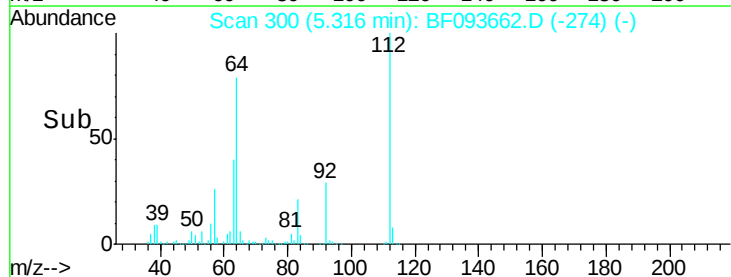
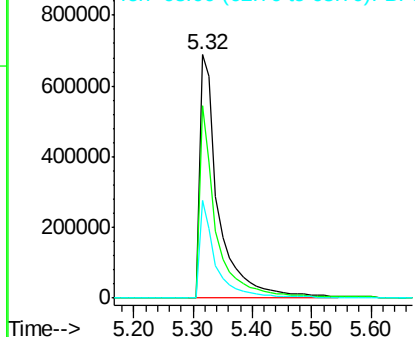
#5

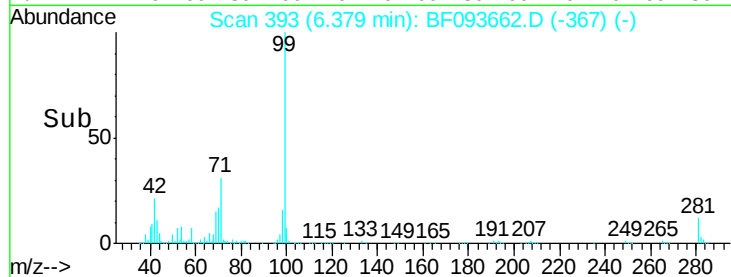
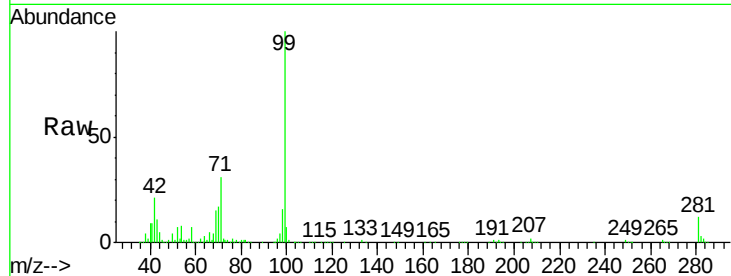
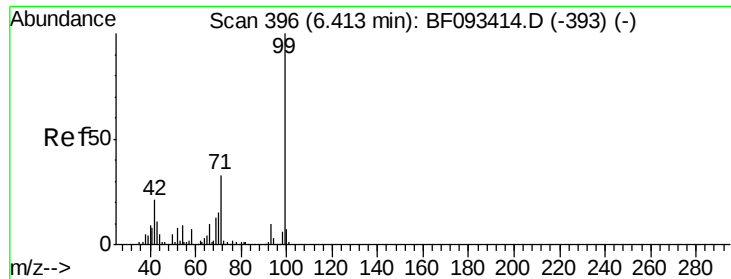
2-Fluorophenol  
Concen: 145.19 ng  
RT: 5.32 min Scan# 300  
Delta R.T. -0.00 min  
Lab File: BF093662.D  
Acq: 14 Mar 2017 16:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 78.9  | 46.1  | 69.1# |
| 63      | 40.2  | 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: 75.50 ng

RT: 6.38 min Scan# 393

Delta R.T. -0.00 min

Lab File: BF093662.D

Acq: 14 Mar 2017 16:49

Instrument :

BNA\_M

ClientSampleId :

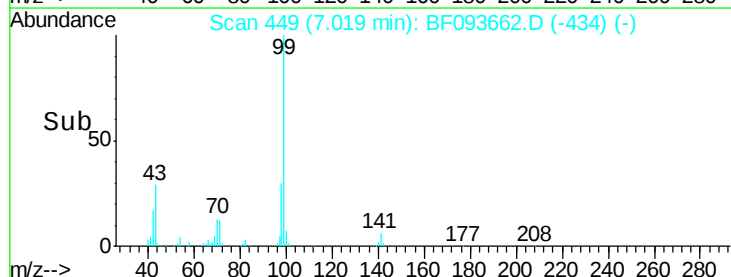
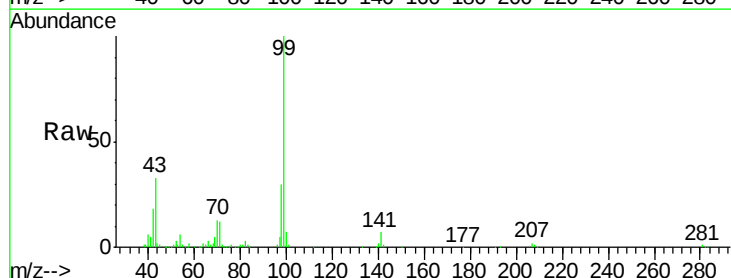
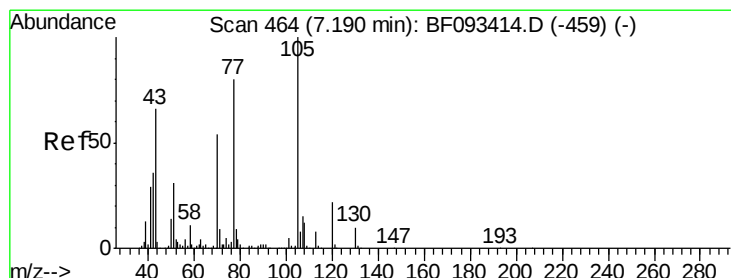
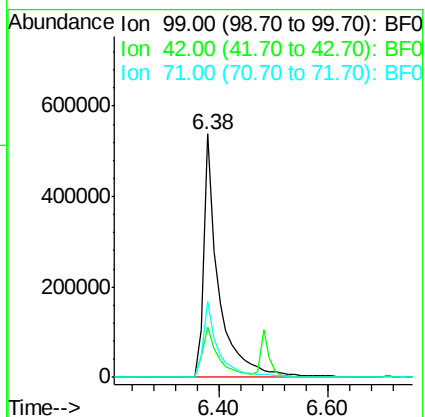
Tot Ion: 99 Resp: 1018755

Ion Ratio Lower Upper

99 100

42 20.7 15.6 23.4

71 31.1 27.5 41.3



#19

n-Nitroso-di-n-propylamine

Concen: 3.00 ng

RT: 7.02 min Scan# 449

Delta R.T. -0.13 min

Lab File: BF093662.D

Acq: 14 Mar 2017 16:49

Tgt Ion: 70 Resp: 27855

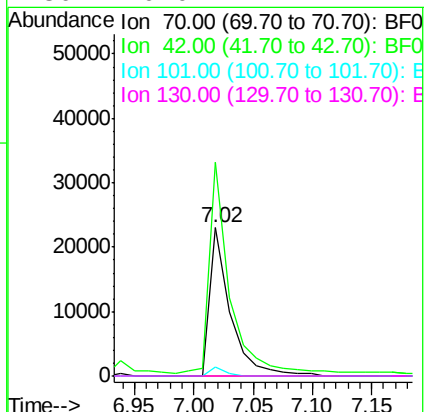
Ion Ratio Lower Upper

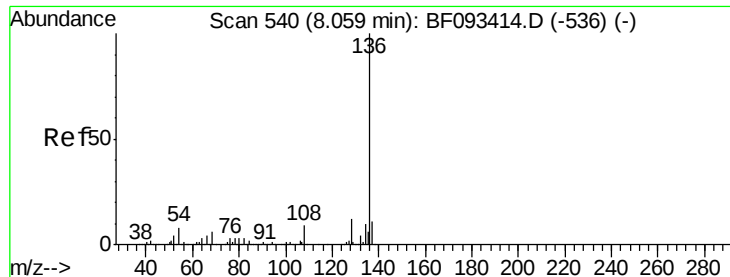
70 100

42 143.9 49.4 74.0#

101 6.0 7.4 11.2#

130 0.0 14.2 21.4#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 535

Delta R.T. -0.01 min

Lab File: BF093662.D

Acq: 14 Mar 2017 16:49

Instrument :

BNA\_M

ClientSampleId :

Tot Ion:136 Resp: 661028

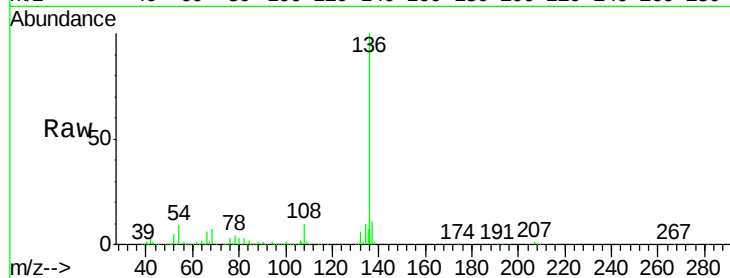
Ion Ratio Lower Upper

136 100

137 11.0 8.4 12.6

54 9.2 4.5 6.7#

68 6.9 3.6 5.4#

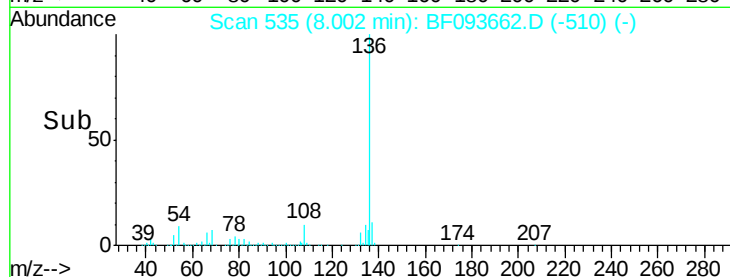


Abundance Ion 136.00 (135.70 to 136.70): E

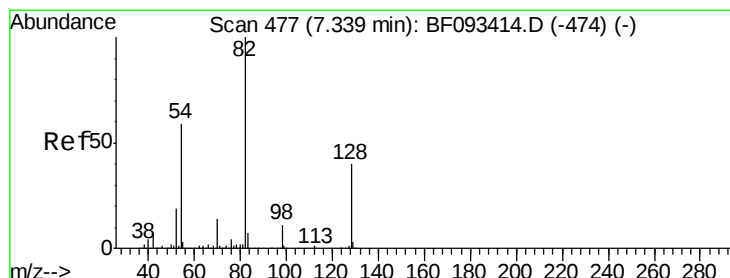
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 103.12 ng

RT: 7.28 min Scan# 472

Delta R.T. -0.02 min

Lab File: BF093662.D

Acq: 14 Mar 2017 16:49

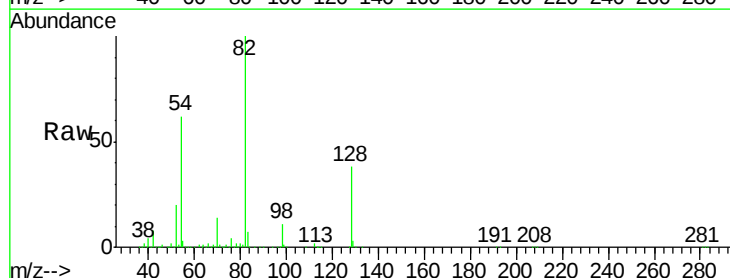
Tgt Ion: 82 Resp: 1228492

Ion Ratio Lower Upper

82 100

128 38.4 34.6 52.0

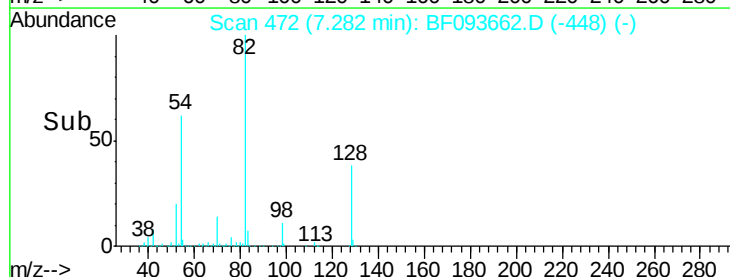
54 61.9 39.5 59.3#



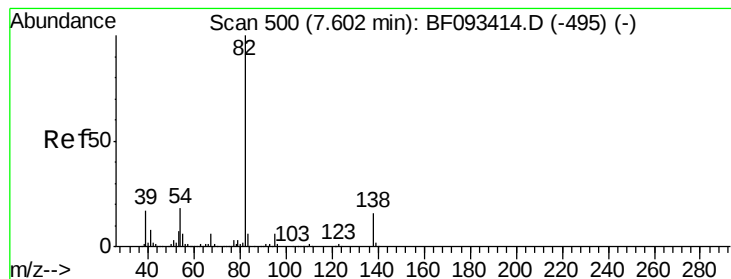
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->



#25

Isophorone

Concen: 50.49 ng

RT: 7.28 min Scan# 472

Delta R.T. -0.27 min

Lab File: BF093662.D

Acq: 14 Mar 2017 16:49

Instrument :

BNA\_M

ClientSampleId :

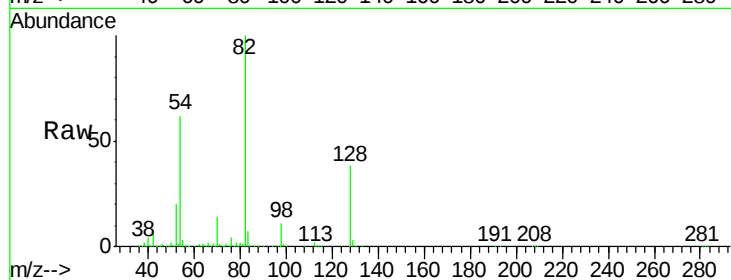
Tot Ion: 82 Resp: 1212887

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

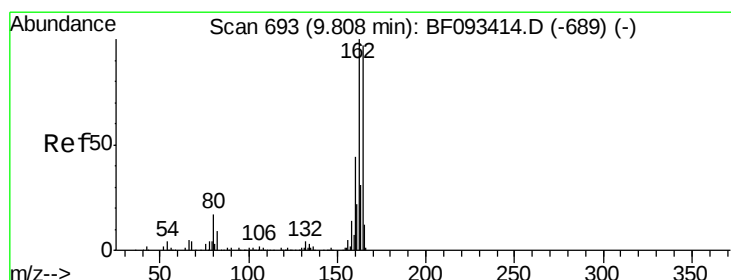
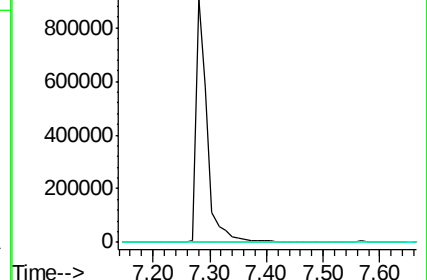
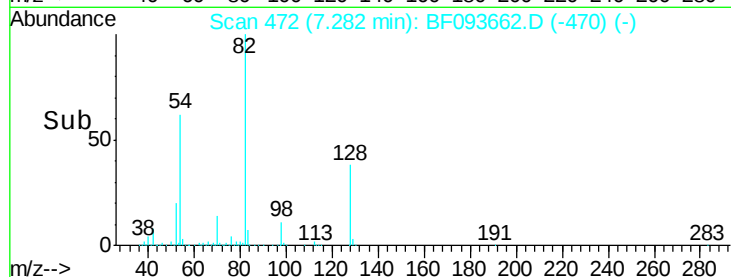
138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.76 min Scan# 689

Delta R.T. -0.00 min

Lab File: BF093662.D

Acq: 14 Mar 2017 16:49

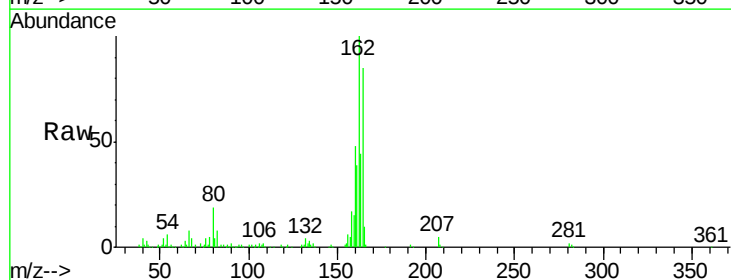
Tgt Ion:164 Resp: 141820

Ion Ratio Lower Upper

164 100

162 118.2 80.2 120.2

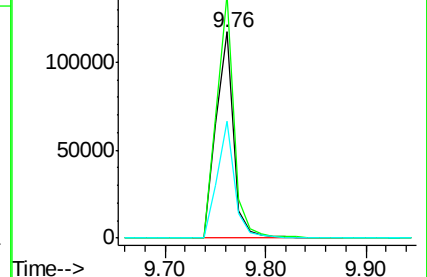
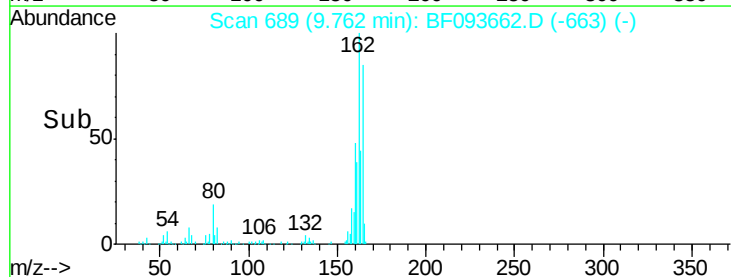
160 56.5 36.9 55.3#

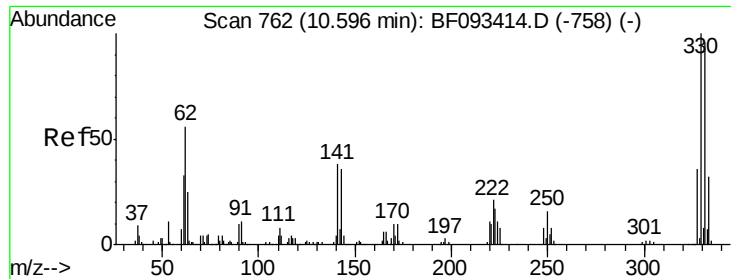


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

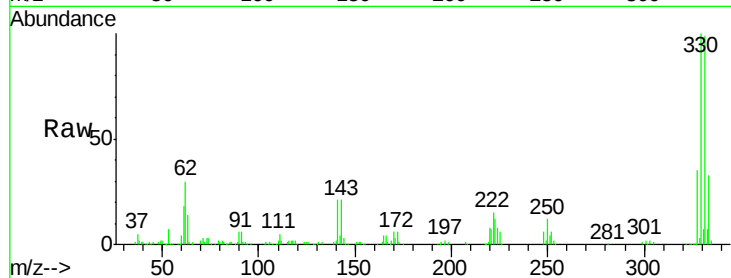




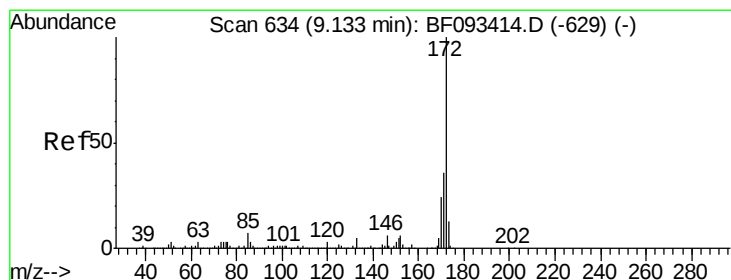
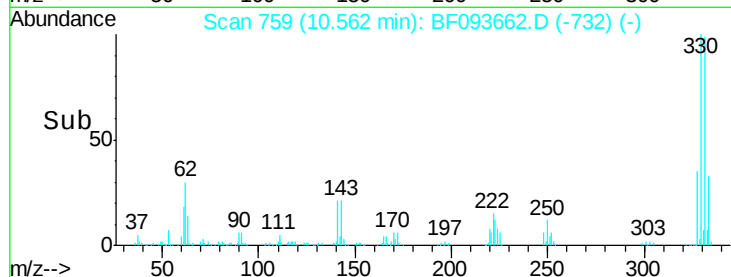
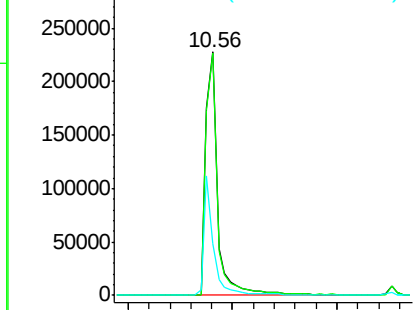
#41  
 2,4,6-Tribromophenol  
 Concen: 393.49 ng  
 RT: 10.56 min Scan# 759  
 Delta R.T. 0.01 min  
 Lab File: BF093662.D  
 Acq: 14 Mar 2017 16:49

Instrument :  
 BNA\_M  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.8  | 77.4  | 116.2 |
| 141     | 40.4  | 34.1  | 51.1  |

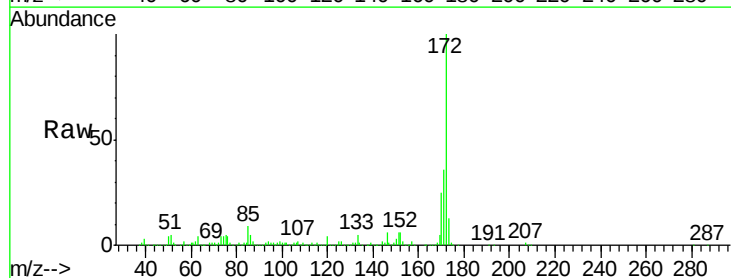


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

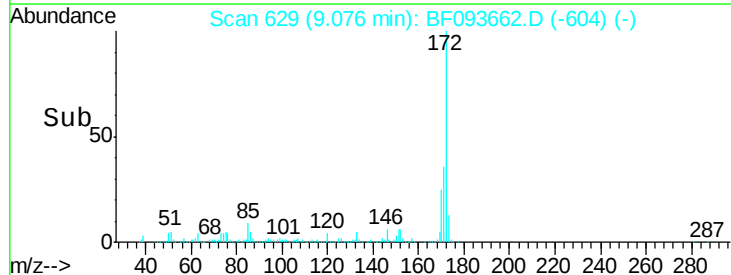
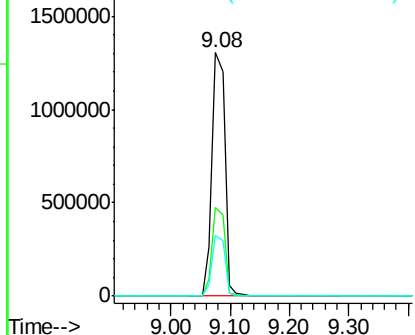


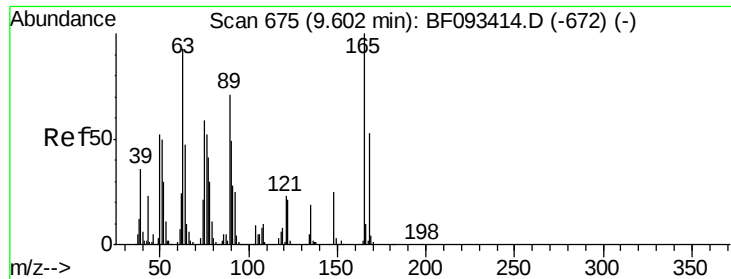
#44  
 2-Fluorobiphenyl  
 Concen: 258.69 ng  
 RT: 9.08 min Scan# 629  
 Delta R.T. -0.01 min  
 Lab File: BF093662.D  
 Acq: 14 Mar 2017 16:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.4  | 44.0  |
| 170     | 24.7  | 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

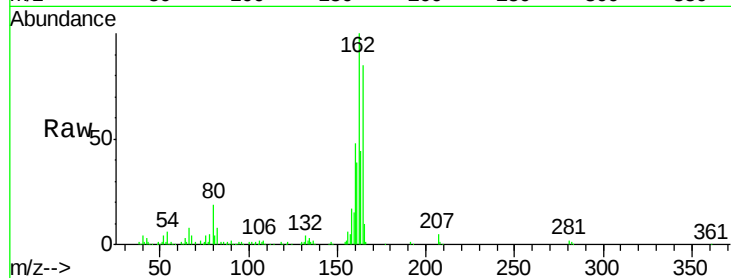




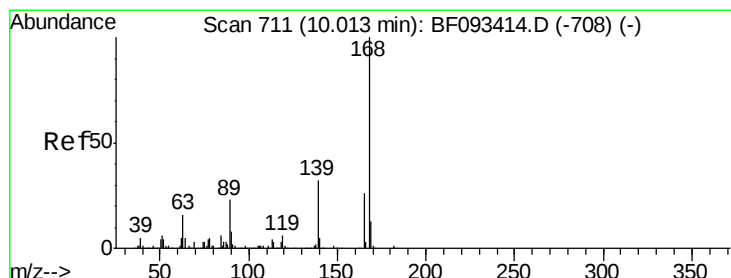
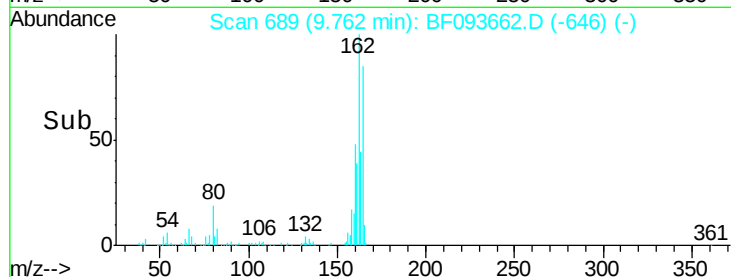
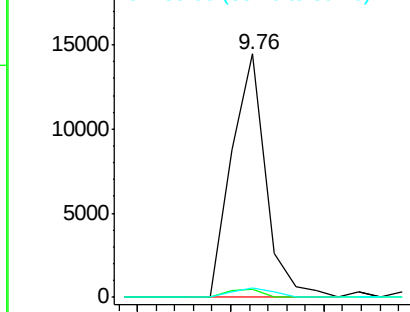
#50  
2,6-Dinitrotoluene  
Concen: 8.95 ng  
RT: 9.76 min Scan# 689  
Delta R.T. 0.19 min  
Lab File: BF093662.D  
Acq: 14 Mar 2017 16:49

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:165 Resp: 18473  
Ion Ratio Lower Upper  
165 100  
63 3.1 36.2 54.4#  
89 3.9 40.2 60.4#

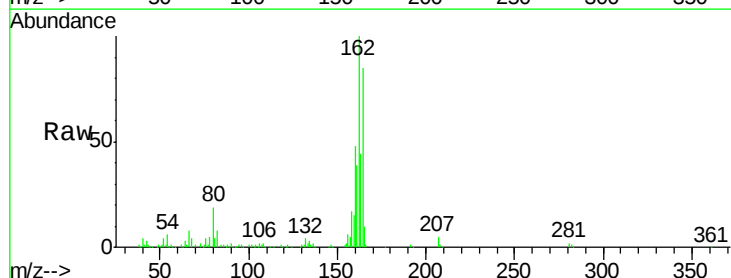


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

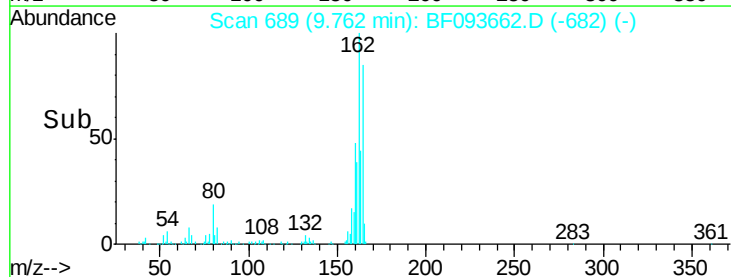
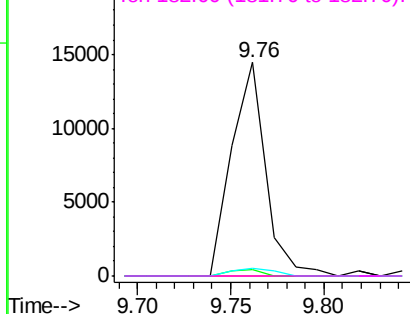


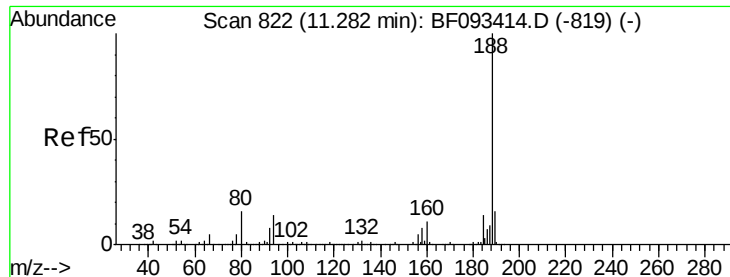
#56  
2,4-Dinitrotoluene  
Concen: 7.29 ng  
RT: 9.76 min Scan# 689  
Delta R.T. -0.22 min  
Lab File: BF093662.D  
Acq: 14 Mar 2017 16:49

Tgt Ion:165 Resp: 18473  
Ion Ratio Lower Upper  
165 100  
63 3.1 40.2 60.4#  
89 3.9 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

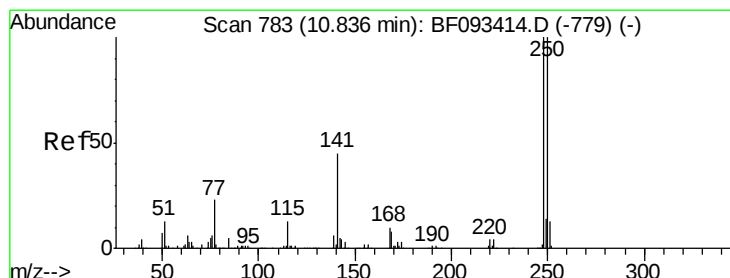
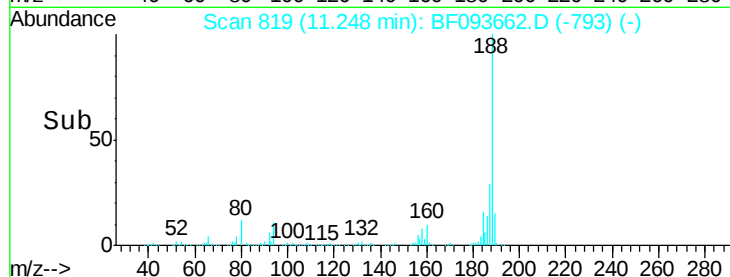
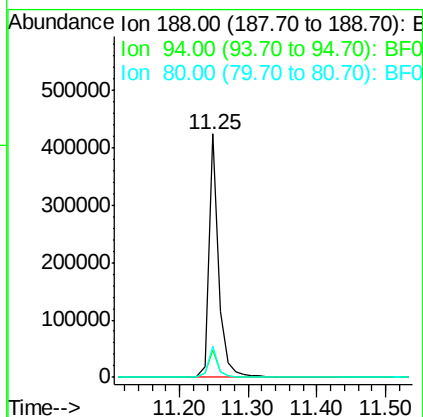
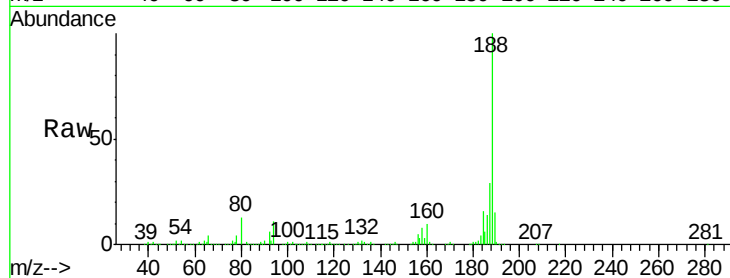




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 819  
Delta R.T. -0.00 min  
Lab File: BF093662.D  
Acq: 14 Mar 2017 16:49

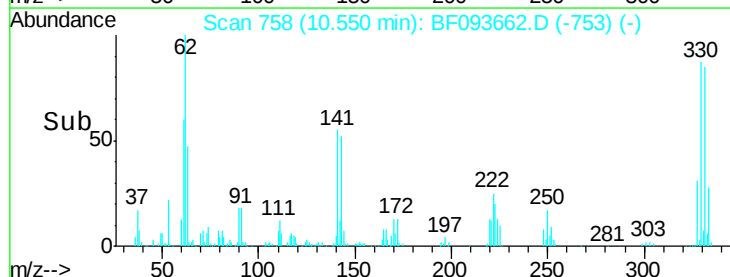
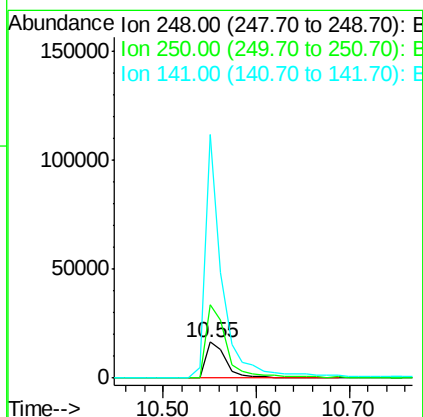
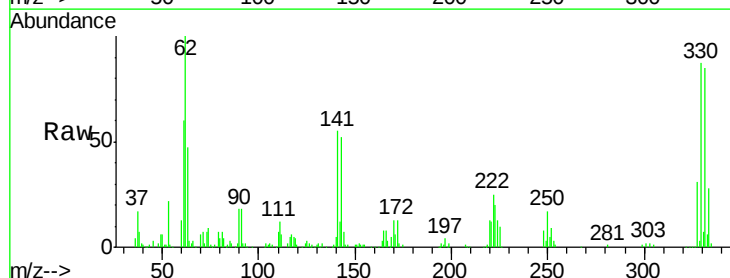
Instrument :  
BNA\_M  
ClientSampled :

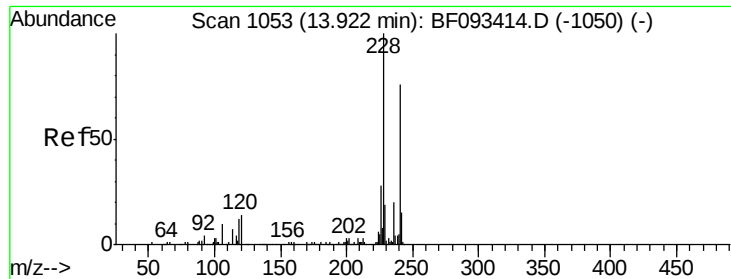
Tot Ion:188 Resp: 416133  
Ion Ratio Lower Upper  
188 100  
94 11.1 10.0 15.0  
80 12.5 11.2 16.8



#66  
4-Bromophenyl-phenylether  
Concen: 5.85 ng  
RT: 10.55 min Scan# 758  
Delta R.T. -0.24 min  
Lab File: BF093662.D  
Acq: 14 Mar 2017 16:49

Tgt Ion:248 Resp: 25725  
Ion Ratio Lower Upper  
248 100  
250 206.7 76.9 115.3#  
141 680.1 68.2 102.4#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.90 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BF093662.D

Acq: 14 Mar 2017 16:49

Instrument :

BNA\_M

ClientSampleId :

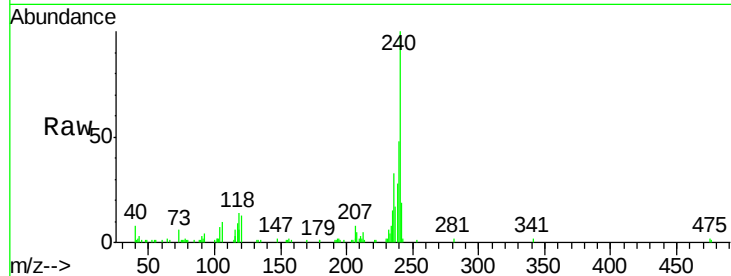
Tot Ion:240 Resp: 55862

Ion Ratio Lower Upper

240 100

120 13.5 12.9 19.3

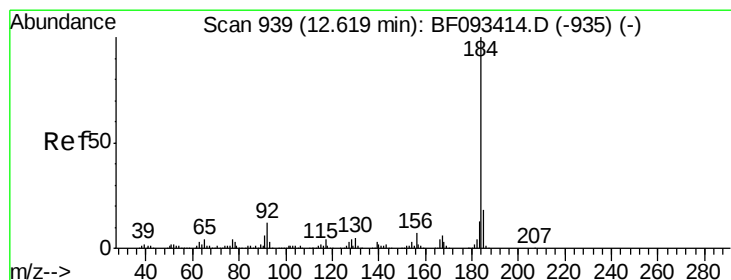
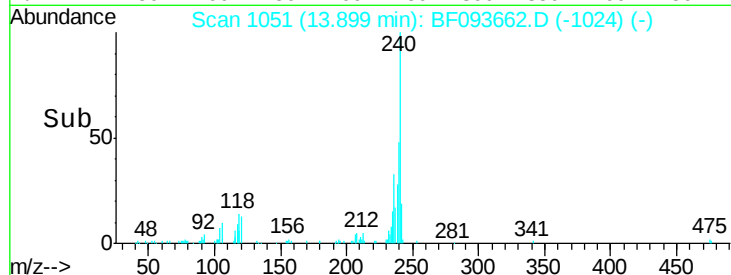
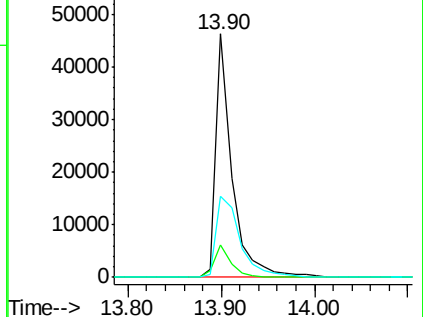
236 33.1 20.9 31.3#



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



#76

Benzidine

Concen: 8.60 ng

RT: 12.84 min Scan# 958

Delta R.T. 0.25 min

Lab File: BF093662.D

Acq: 14 Mar 2017 16:49

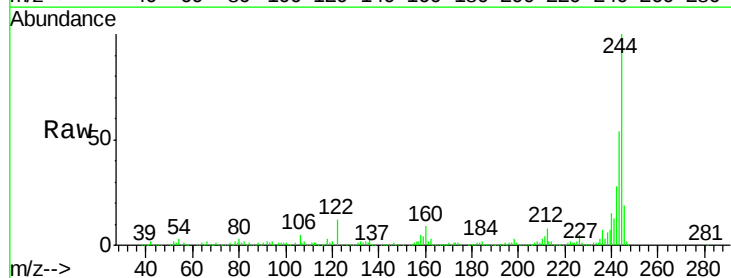
Tgt Ion:184 Resp: 15804

Ion Ratio Lower Upper

184 100

185 20.2 13.4 20.0#

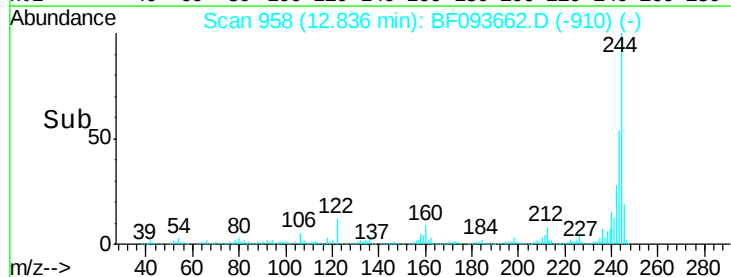
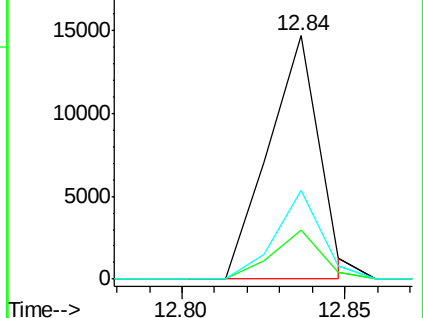
183 36.7 9.2 13.8#

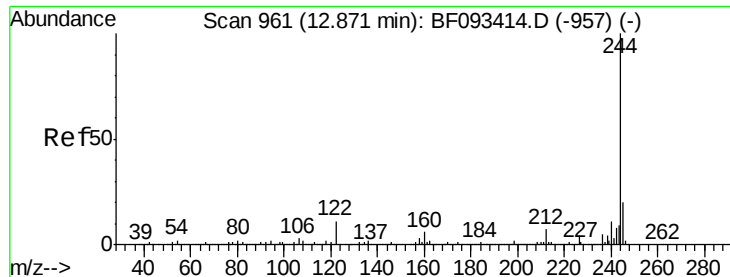


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

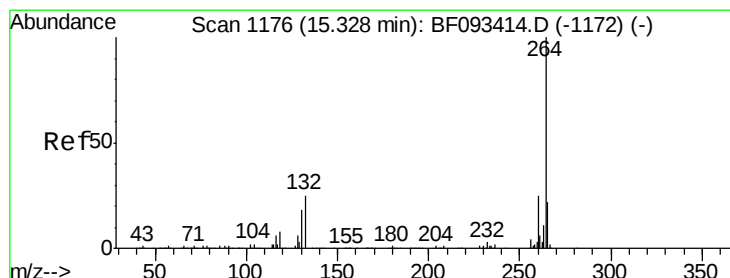
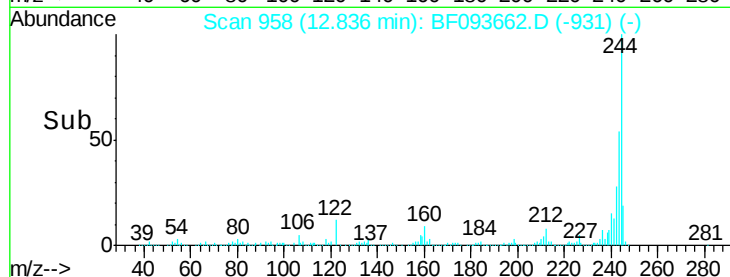
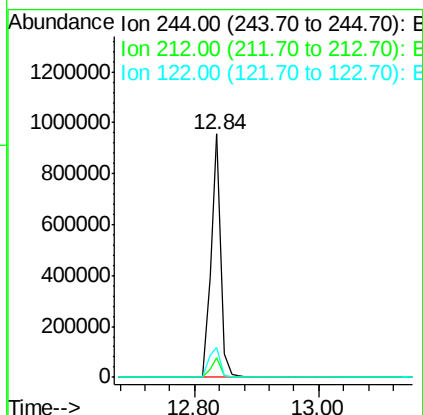
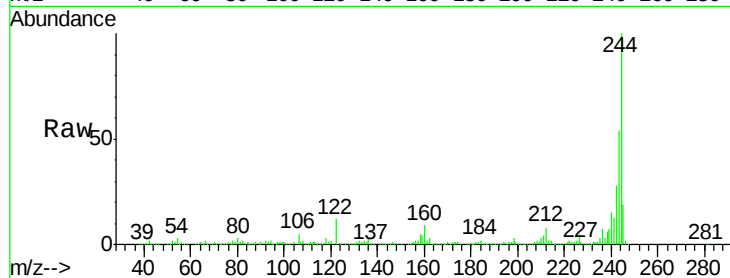




#78  
 Terphenyl-d14  
 Concen: 469.93 ng  
 RT: 12.84 min Scan# 958  
 Delta R.T. 0.01 min  
 Lab File: BF093662.D  
 Acq: 14 Mar 2017 16:49

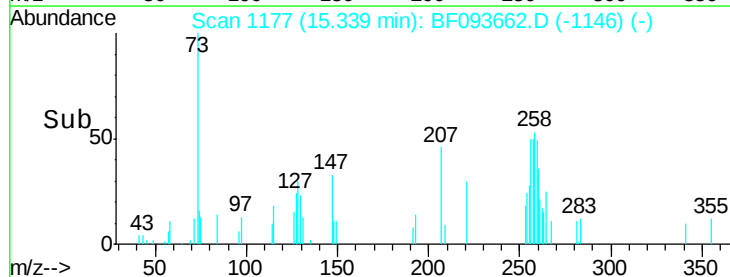
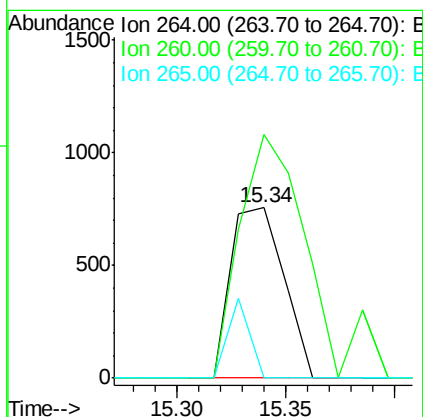
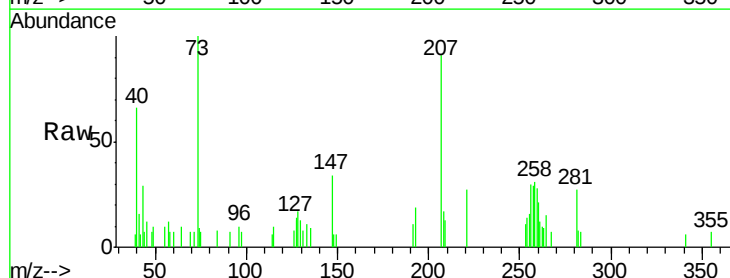
Instrument :  
 BNA\_M  
 ClientSampleId :

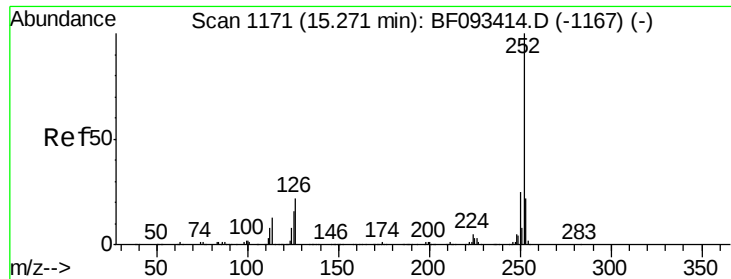
Tot Ion:244 Resp: 1009682  
 Ion Ratio Lower Upper  
 244 100  
 212 8.3 6.2 9.2  
 122 12.1 11.4 17.2



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.34 min Scan# 1177  
 Delta R.T. 0.06 min  
 Lab File: BF093662.D  
 Acq: 14 Mar 2017 16:49

Tgt Ion:264 Resp: 1285  
 Ion Ratio Lower Upper  
 264 100  
 260 143.2 19.2 28.8#  
 265 0.0 17.4 26.0#





#89

Benzo(a)pyrene

Concen: 4.32 ng

RT: 15.35 min Scan# 1178

Delta R.T. 0.13 min

Lab File: BF093662.D

Acq: 14 Mar 2017 16:49

Instrument :

BNA\_M

ClientSampleId :

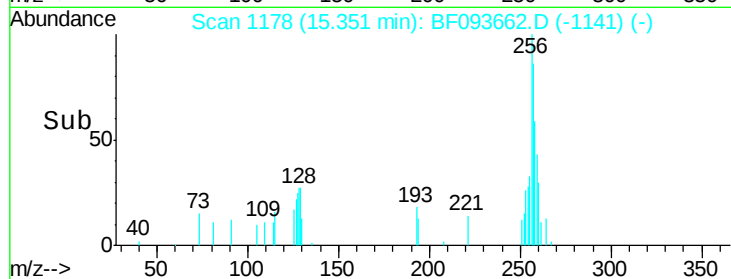
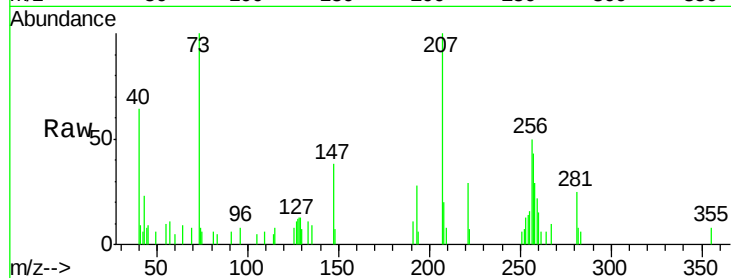
Tot Ion: 252 Resp: 309

Ion Ratio Lower Upper

252 100

253 178.7 18.2 27.2#

125 112.9 10.0 15.0#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

