

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031317\  
 Data File : BF093604.D  
 Acq On : 13 Mar 2017 13:52  
 Operator : SJ/MA  
 Sample : I2174-19  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-64

Quant Time: Mar 14 01:00:54 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

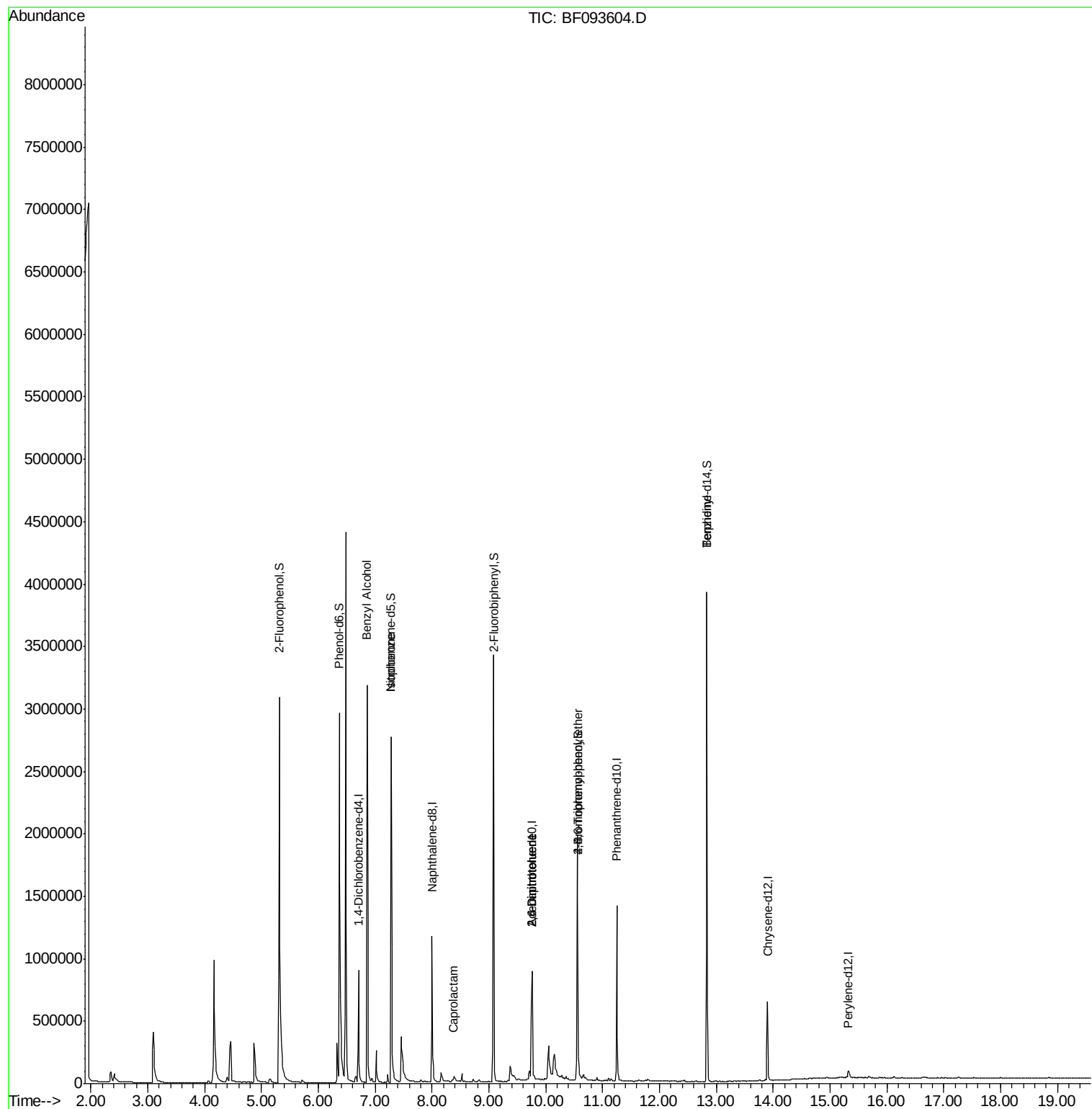
| Internal Standards            | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4     | 6.71  | 152  | 149510   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.00  | 136  | 582791   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10          | 9.76  | 164  | 205721   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10          | 11.25 | 188  | 501989   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12              | 13.90 | 240  | 218694   | 20.00     | ng    | 0.01     |
| 86) Perylene-d12              | 15.32 | 264  | 10218    | 20.00     | ng    | 0.03     |
| System Monitoring Compounds   |       |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.32  | 112  | 1237438  | 137.75    | ng    | 0.00     |
| 7) Phenol-d6                  | 6.37  | 99   | 1425742  | 125.86    | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.28  | 82   | 1028489  | 97.92     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol      | 10.56 | 330  | 299599   | 223.53    | ng    | 0.01     |
| 44) 2-Fluorobiphenyl          | 9.09  | 172  | 1593481  | 144.08    | ng    | 0.00     |
| 78) Terphenyl-d14             | 12.84 | 244  | 1221757  | 145.25    | ng    | 0.01     |
| Target Compounds              |       |      |          |           |       |          |
| 9) Benzaldehyde               | 6.37  | 77   | 2053     | Below Cal | #     | 1        |
| 15) Benzyl Alcohol            | 6.86  | 79   | 16266    | 2.01 ng   | #     | 48       |
| 25) Isophorone                | 7.28  | 82   | 996875   | 47.06 ng  | #     | 65       |
| 35) Caprolactam               | 8.38  | 113  | 17306    | 6.15 ng   | #     | 14       |
| 50) 2,6-Dinitrotoluene        | 9.76  | 165  | 26018    | 8.69 ng   | #     | 33       |
| 56) 2,4-Dinitrotoluene        | 9.76  | 165  | 26018    | 7.08 ng   | #     | 22       |
| 66) 4-Bromophenyl-phenylether | 10.56 | 248  | 21505    | 4.05 ng   | #     | 1        |
| 76) Benzidine                 | 12.84 | 184  | 15938    | 2.22 ng   | #     | 92       |

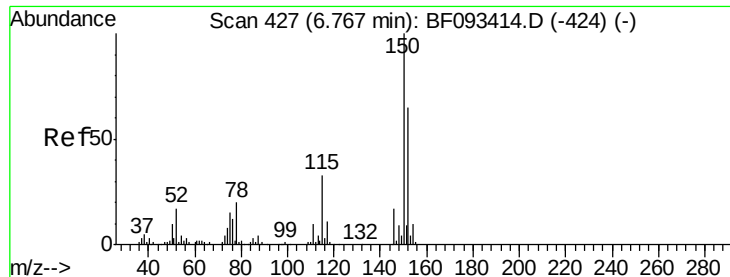
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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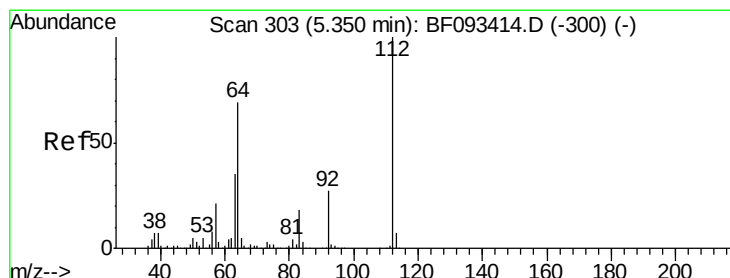
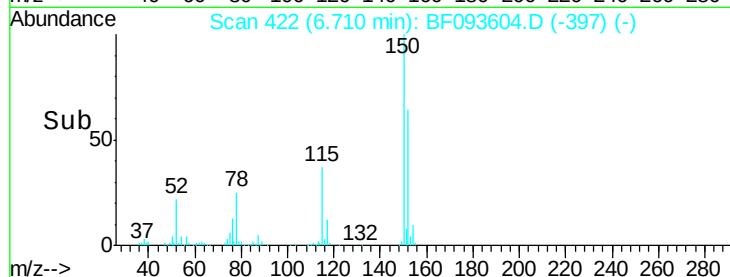
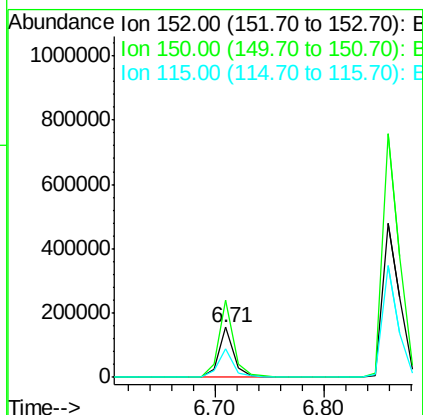
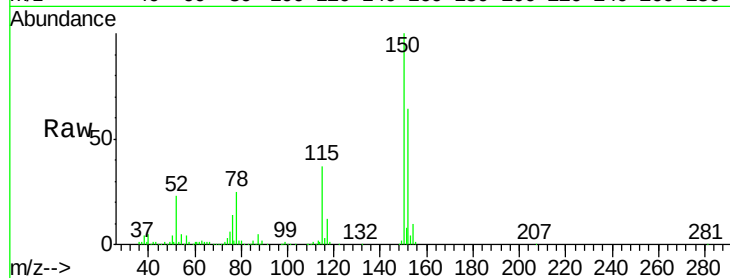


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.71 min Scan# 422  
Delta R.T. -0.01 min  
Lab File: BF093604.D  
Acq: 13 Mar 2017 13:52

Instrument :  
BNA\_F  
ClientSampled :  
D-64

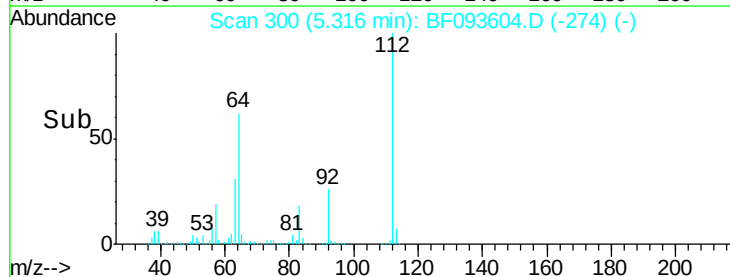
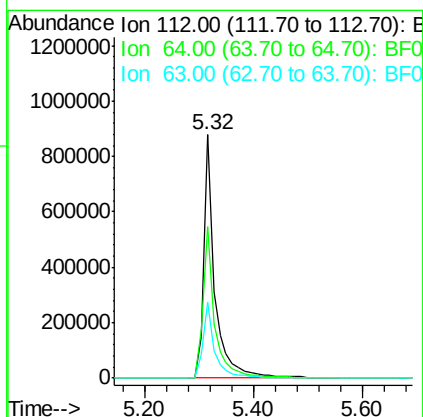
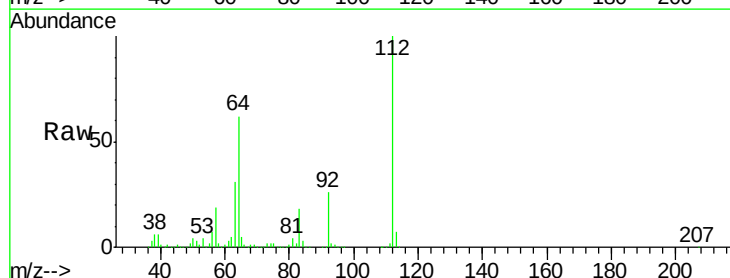
Tgt Ion:152 Resp: 149510  
Ion Ratio Lower Upper  
152 100  
150 155.4 124.9 187.3  
115 57.6 46.0 69.0

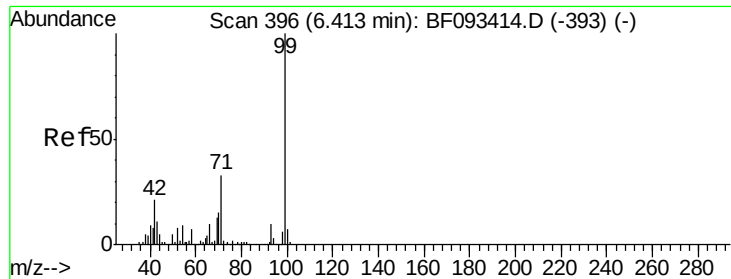


#5

2-Fluorophenol  
Concen: 137.75 ng  
RT: 5.32 min Scan# 300  
Delta R.T. -0.00 min  
Lab File: BF093604.D  
Acq: 13 Mar 2017 13:52

Tgt Ion:112 Resp: 1237438  
Ion Ratio Lower Upper  
112 100  
64 62.1 46.1 69.1  
63 31.2 23.8 35.6





#7

Phenol-d6

Concen: 125.86 ng

RT: 6.37 min Scan# 392

Delta R.T. -0.01 min

Lab File: BF093604.D

Acq: 13 Mar 2017 13:52

Instrument :

BNA\_F

ClientSampleId :

D-64

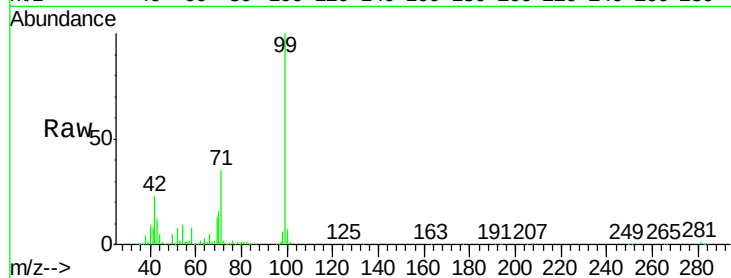
Tgt Ion: 99 Resp: 1425742

Ion Ratio Lower Upper

99 100

42 23.1 15.6 23.4

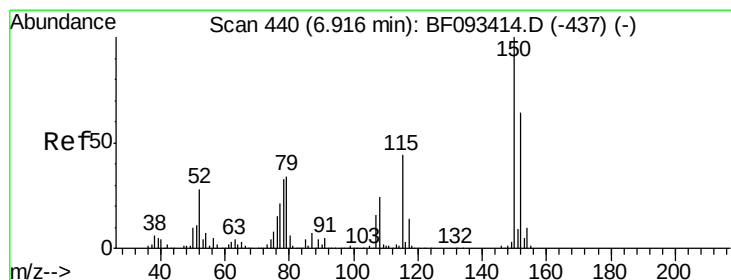
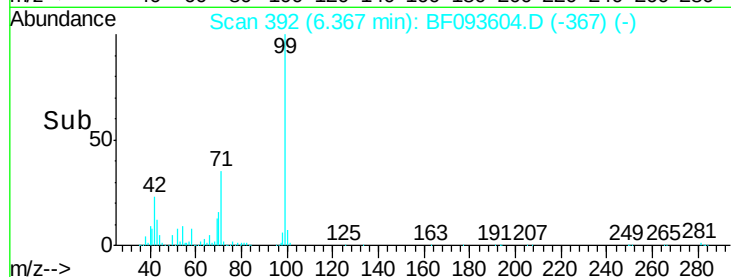
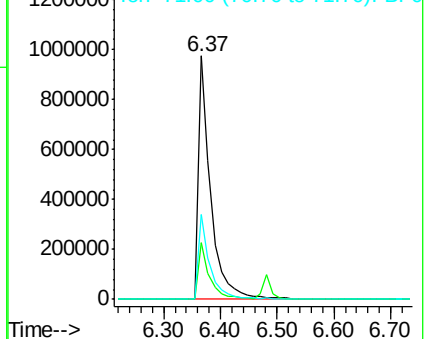
71 34.9 27.5 41.3



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



#15

Benzyl Alcohol

Concen: 2.01 ng

RT: 6.86 min Scan# 435

Delta R.T. -0.02 min

Lab File: BF093604.D

Acq: 13 Mar 2017 13:52

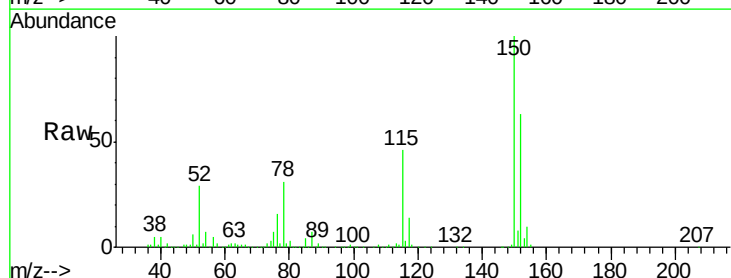
Tgt Ion: 79 Resp: 16266

Ion Ratio Lower Upper

79 100

108 24.7 61.4 92.0#

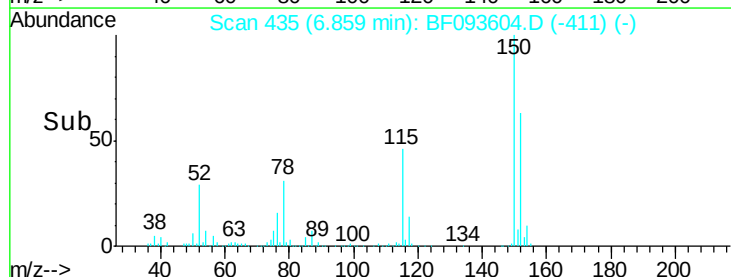
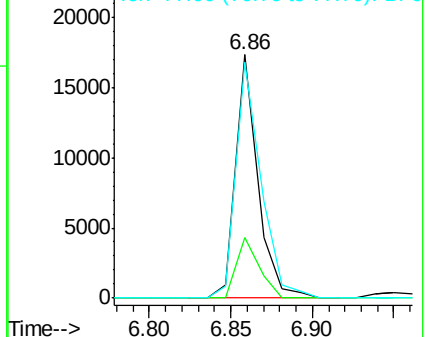
77 96.8 50.9 76.3#

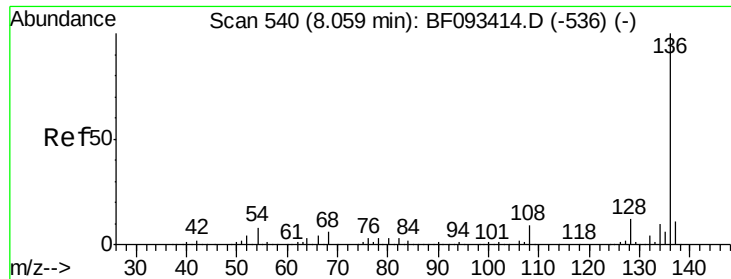


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

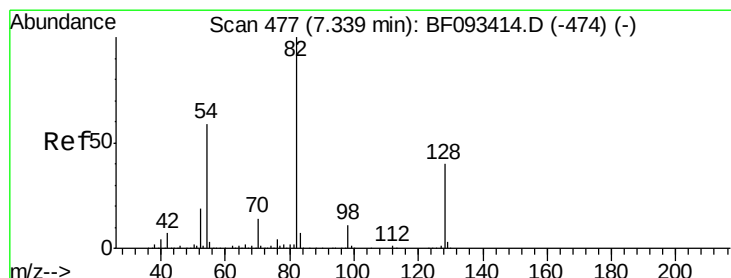
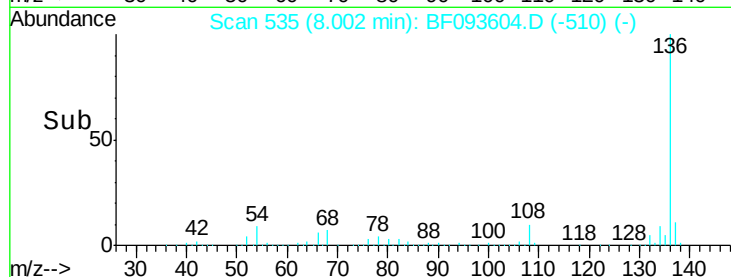
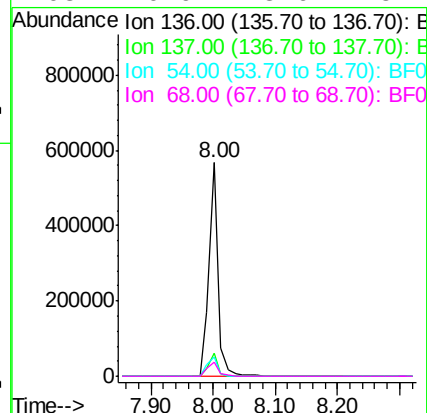
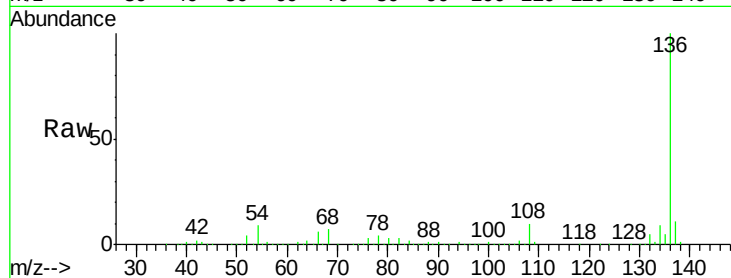




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: BF093604.D  
Acq: 13 Mar 2017 13:52

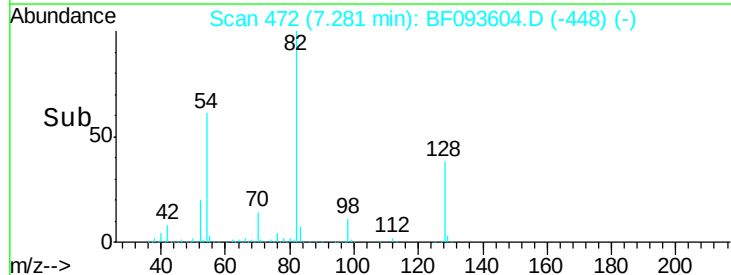
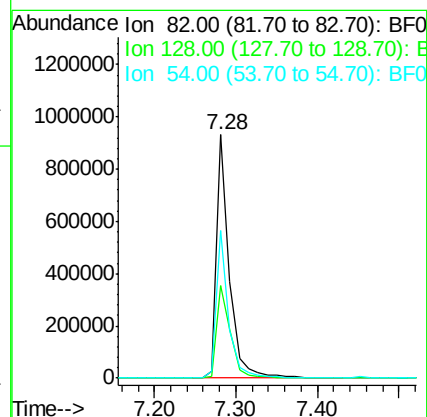
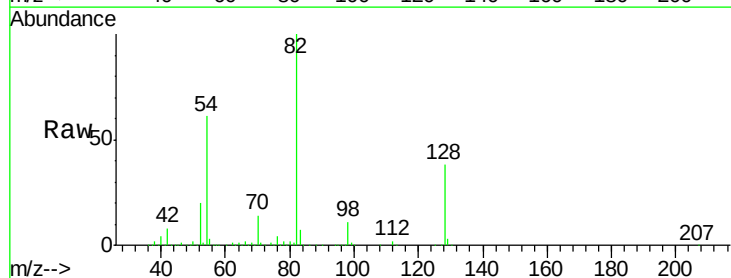
Instrument :  
BNA\_F  
ClientSampleId :  
D-64

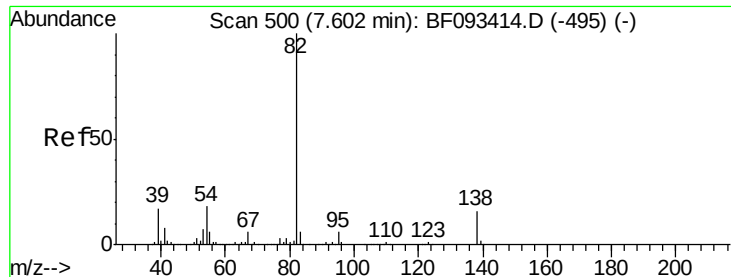
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 582791 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.4   | 12.6   |
| 54       | 9.1   | 4.5   | 6.7#   |
| 68       | 6.9   | 3.6   | 5.4#   |



#23  
Nitrobenzene-d5  
Concen: 97.92 ng  
RT: 7.28 min Scan# 472  
Delta R.T. -0.02 min  
Lab File: BF093604.D  
Acq: 13 Mar 2017 13:52

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1028489 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 38.0  | 34.6  | 52.0    |
| 54       | 60.5  | 39.5  | 59.3#   |

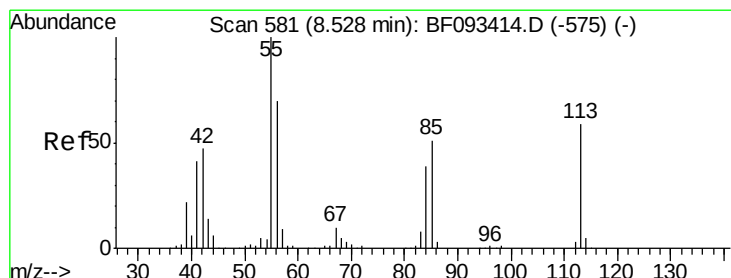
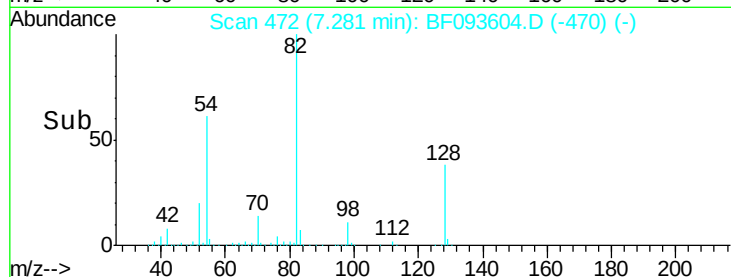
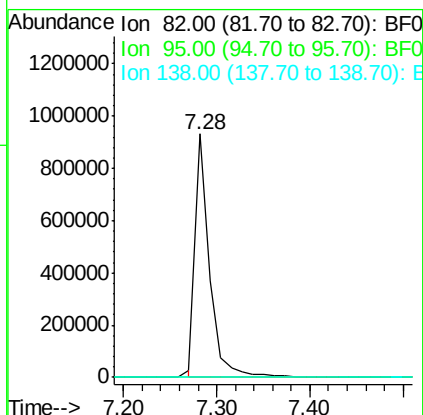
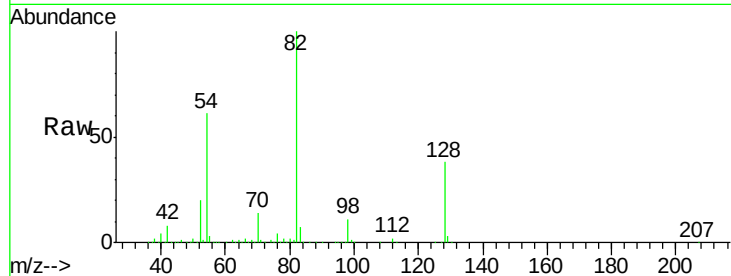




#25  
Isophorone  
Concen: 47.06 ng  
RT: 7.28 min Scan# 472  
Delta R.T. -0.27 min  
Lab File: BF093604.D  
Acq: 13 Mar 2017 13:52

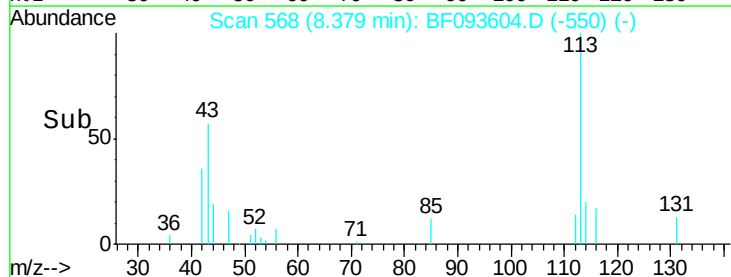
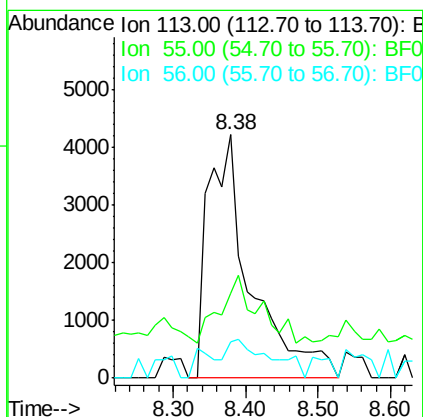
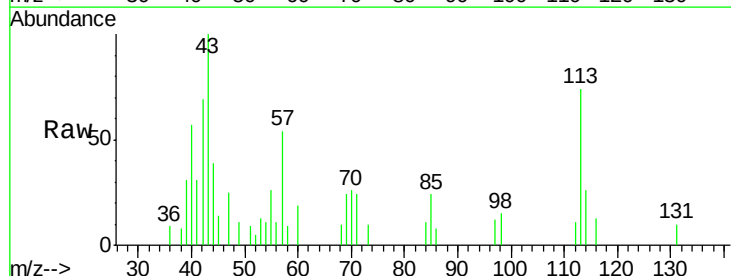
Instrument :  
BNA\_F  
ClientSampleId :  
D-64

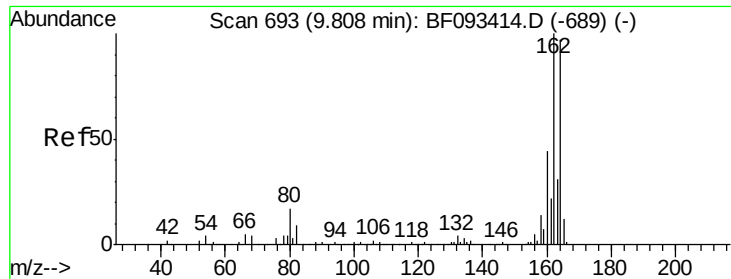
Tgt Ion: 82 Resp: 996875  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.6 8.4#  
138 0.0 14.6 22.0#



#35  
Caprolactam  
Concen: 6.15 ng  
RT: 8.38 min Scan# 568  
Delta R.T. -0.09 min  
Lab File: BF093604.D  
Acq: 13 Mar 2017 13:52

Tgt Ion: 113 Resp: 17306  
Ion Ratio Lower Upper  
113 100  
55 34.8 119.2 159.2#  
56 14.9 83.8 123.8#

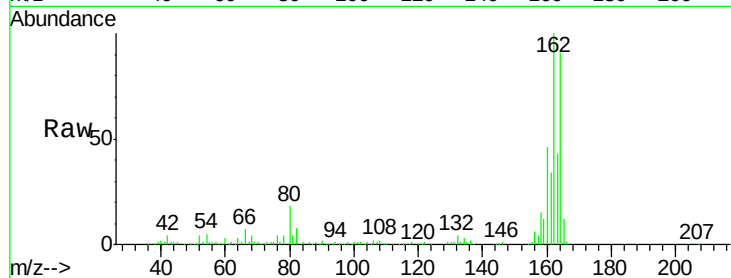




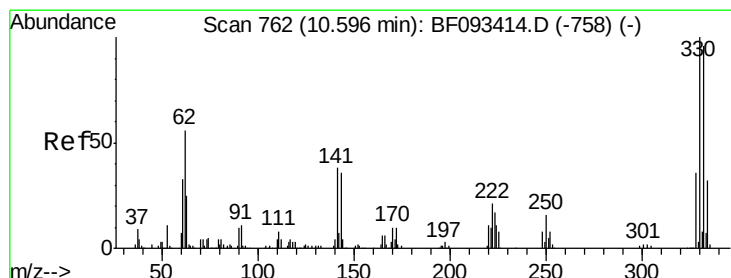
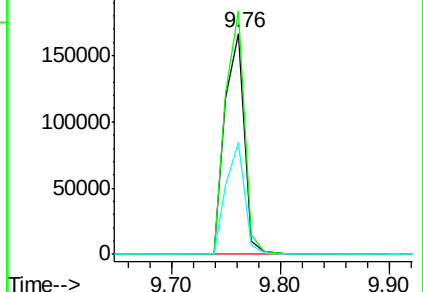
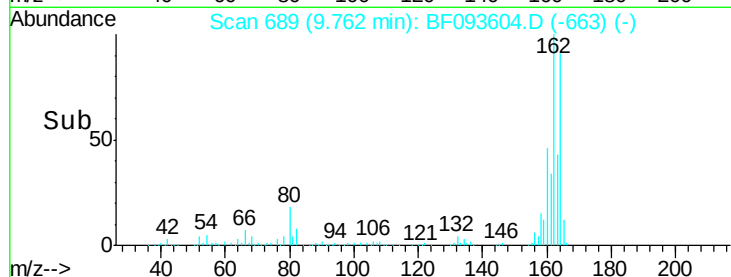
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.76 min Scan# 689  
 Delta R.T. -0.00 min  
 Lab File: BF093604.D  
 Acq: 13 Mar 2017 13:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-64

Tgt Ion:164 Resp: 205721  
 Ion Ratio Lower Upper  
 164 100  
 162 110.3 80.2 120.2  
 160 50.6 36.9 55.3

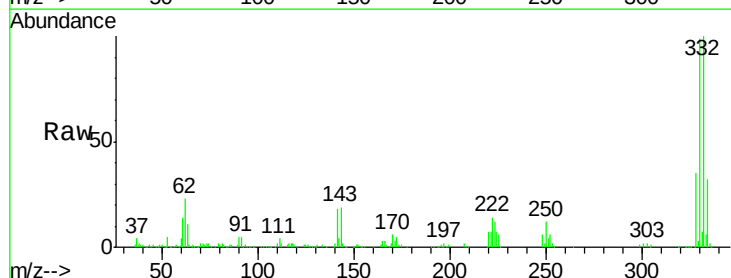


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

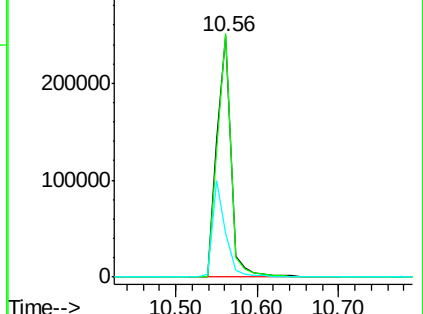
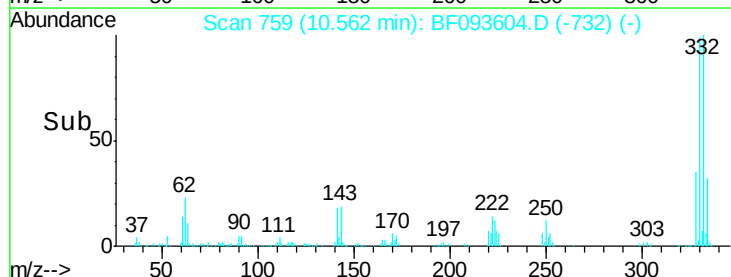


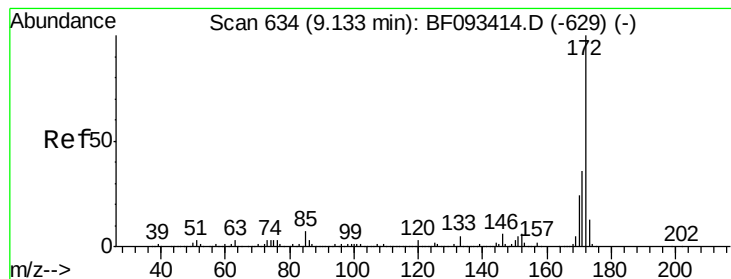
#41  
 2,4,6-Tribromophenol  
 Concen: 223.53 ng  
 RT: 10.56 min Scan# 759  
 Delta R.T. 0.01 min  
 Lab File: BF093604.D  
 Acq: 13 Mar 2017 13:52

Tgt Ion:330 Resp: 299599  
 Ion Ratio Lower Upper  
 330 100  
 332 98.0 77.4 116.2  
 141 37.9 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: 144.08 ng

RT: 9.09 min Scan# 630

Delta R.T. -0.00 min

Lab File: BF093604.D

Acq: 13 Mar 2017 13:52

Instrument :

BNA\_F

ClientSampleId :

D-64

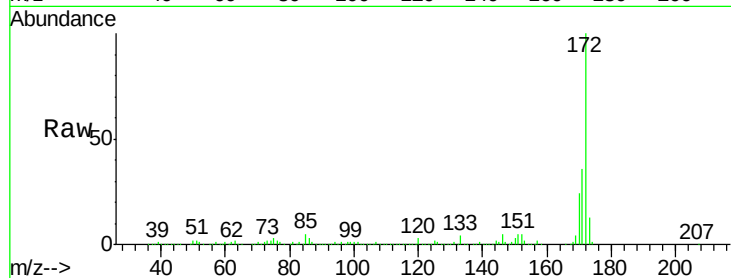
Tgt Ion:172 Resp: 1593481

Ion Ratio Lower Upper

172 100

171 35.7 29.4 44.0

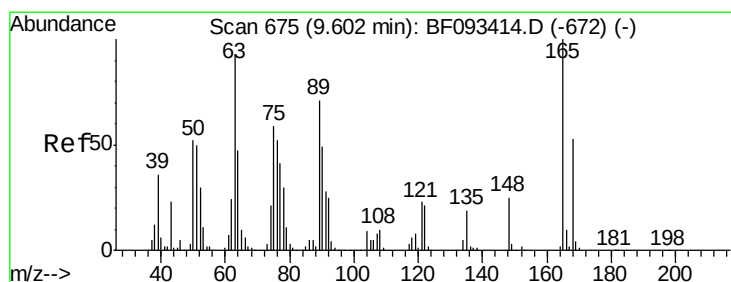
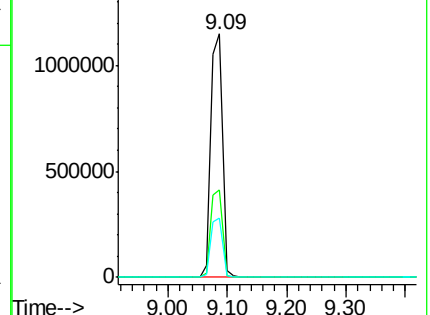
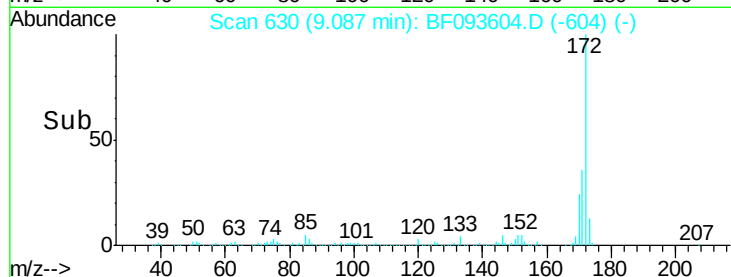
170 24.4 20.2 30.4



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: 8.69 ng

RT: 9.76 min Scan# 689

Delta R.T. 0.19 min

Lab File: BF093604.D

Acq: 13 Mar 2017 13:52

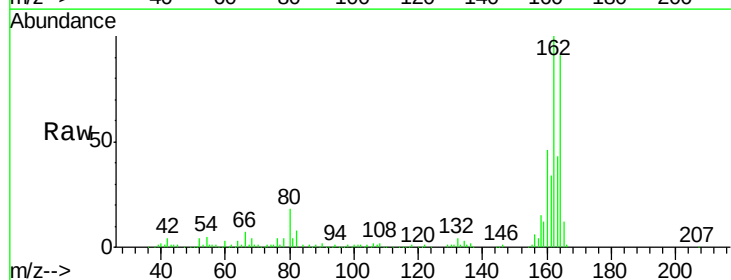
Tgt Ion:165 Resp: 26018

Ion Ratio Lower Upper

165 100

63 2.1 36.2 54.4#

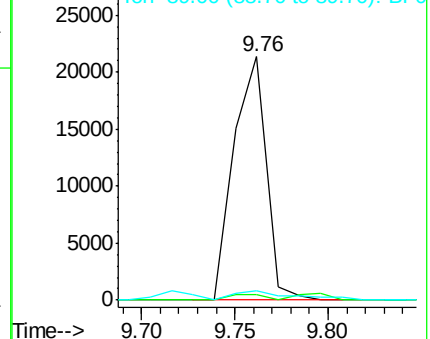
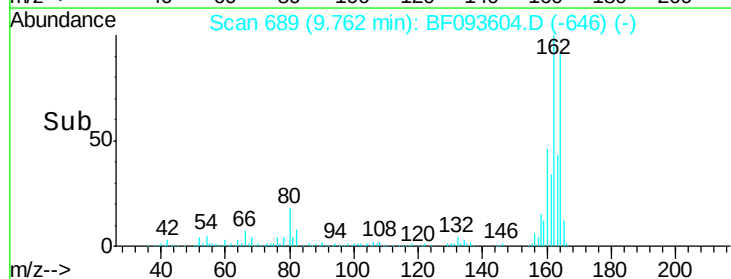
89 3.9 40.2 60.4#



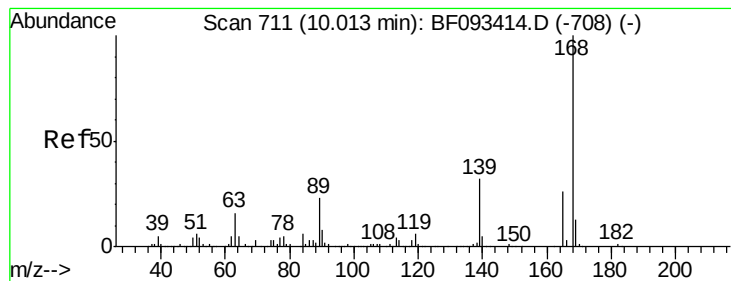
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0







#56

2,4-Dinitrotoluene

Concen: 7.08 ng

RT: 9.76 min Scan# 689

Delta R.T. -0.22 min

Lab File: BF093604.D

Acq: 13 Mar 2017 13:52

Instrument :

BNA\_F

ClientSampleId :

D-64

Tgt Ion:165 Resp: 26018

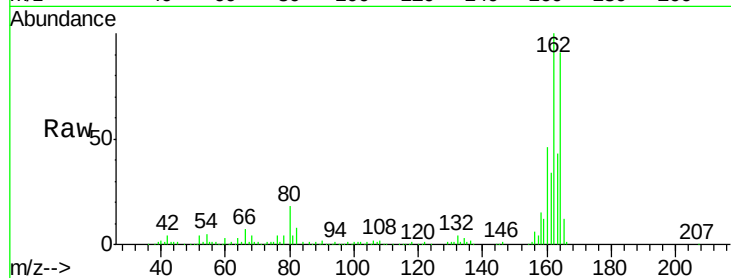
Ion Ratio Lower Upper

165 100

63 2.1 40.2 60.4#

89 3.9 62.5 93.7#

182 0.0 1.8 2.8#

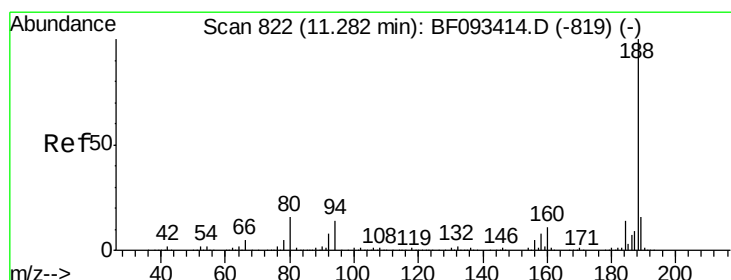
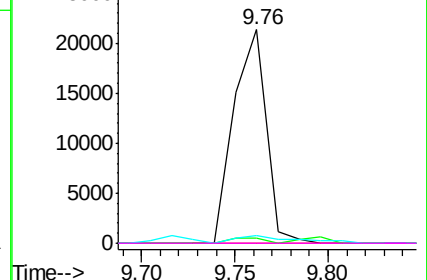
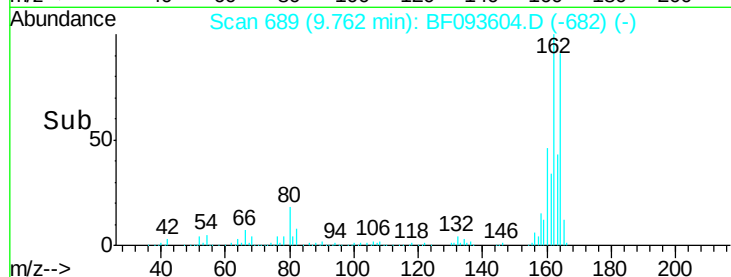


Abundance Ion 165.00 (164.70 to 165.70): E

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: BF093604.D

Acq: 13 Mar 2017 13:52

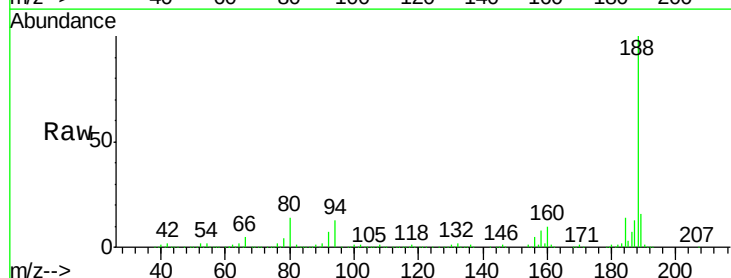
Tgt Ion:188 Resp: 501989

Ion Ratio Lower Upper

188 100

94 12.7 10.0 15.0

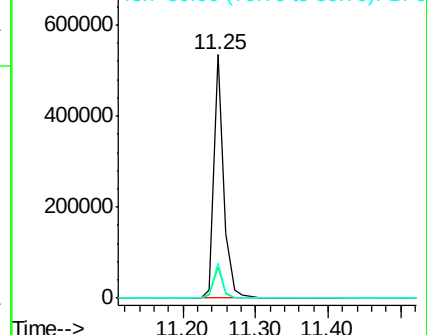
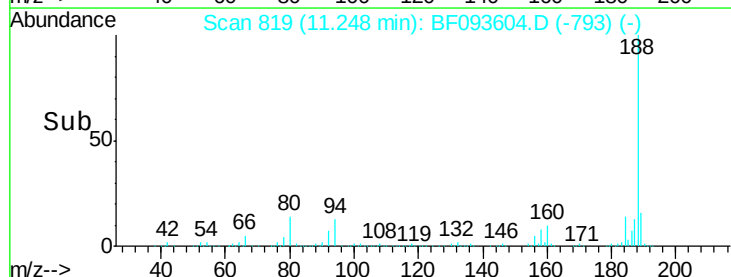
80 14.3 11.2 16.8

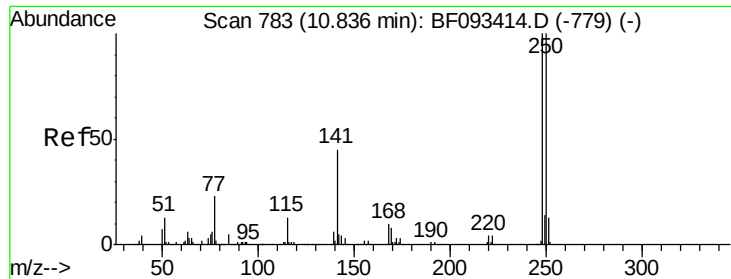


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

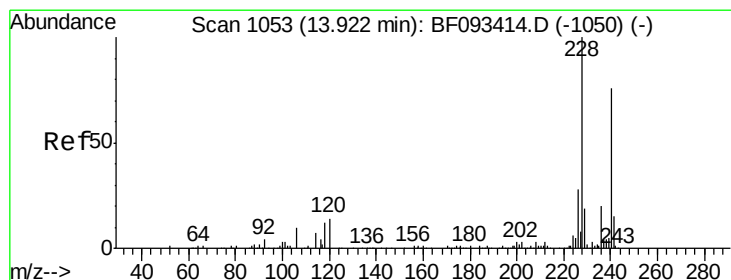
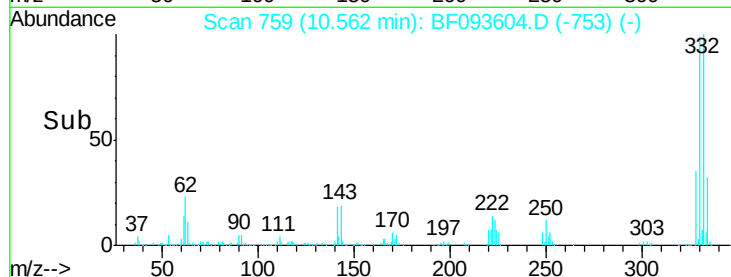
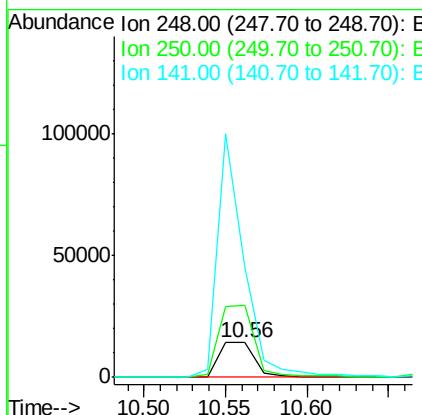
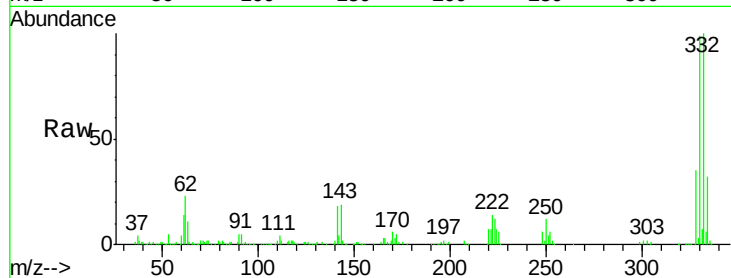




#66  
4-Bromophenyl-phenylether  
Concen: 4.05 ng  
RT: 10.56 min Scan# 759  
Delta R.T. -0.23 min  
Lab File: BF093604.D  
Acq: 13 Mar 2017 13:52

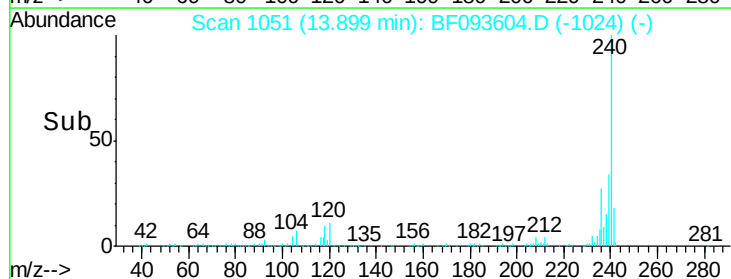
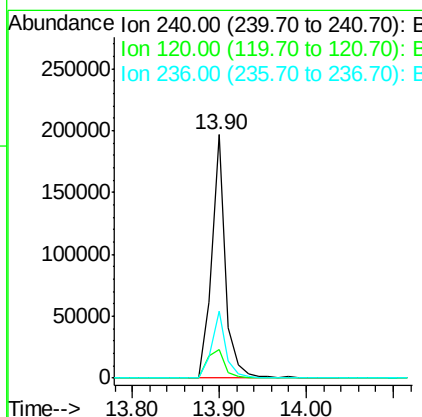
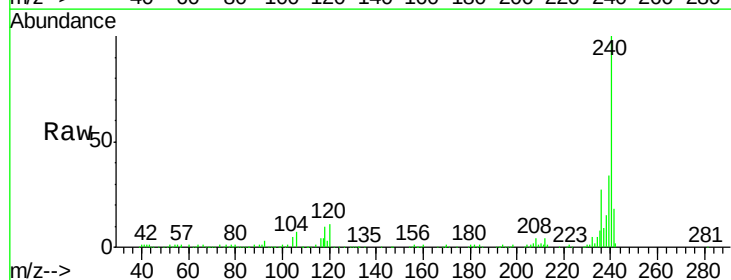
Instrument :  
BNA\_F  
ClientSampled :  
D-64

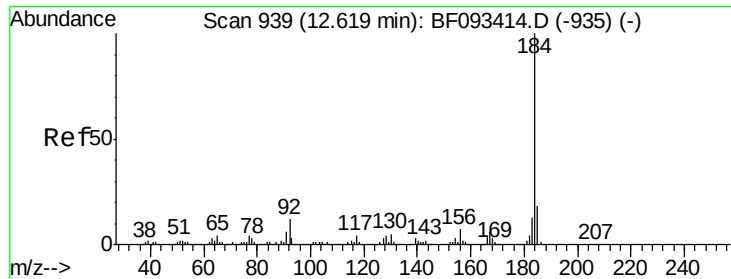
Tgt Ion:248 Resp: 21505  
Ion Ratio Lower Upper  
248 100  
250 207.0 76.9 115.3#  
141 316.8 68.2 102.4#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.90 min Scan# 1051  
Delta R.T. 0.01 min  
Lab File: BF093604.D  
Acq: 13 Mar 2017 13:52

Tgt Ion:240 Resp: 218694  
Ion Ratio Lower Upper  
240 100  
120 11.5 12.9 19.3#  
236 27.5 20.9 31.3





#76

Benzidine

Concen: 2.22 ng

RT: 12.84 min Scan# 958

Delta R.T. 0.25 min

Lab File: BF093604.D

Acq: 13 Mar 2017 13:52

Instrument :

BNA\_F

ClientSampleId :

D-64

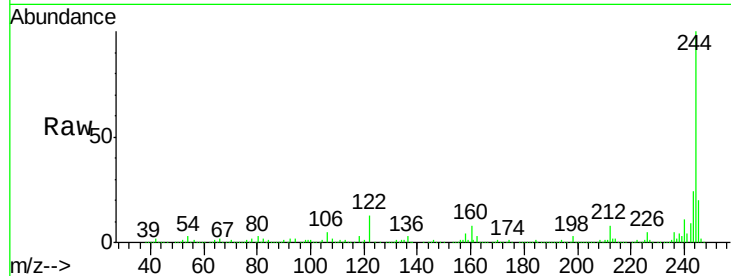
Tgt Ion:184 Resp: 15938

Ion Ratio Lower Upper

184 100

185 17.1 13.4 20.0

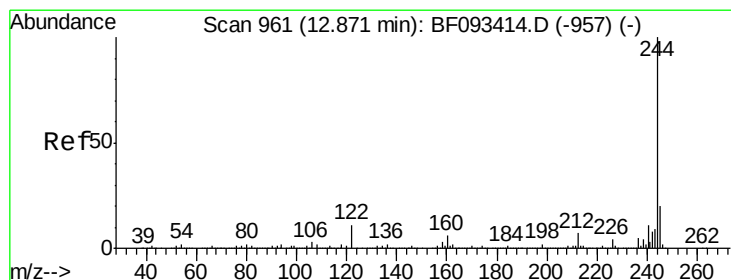
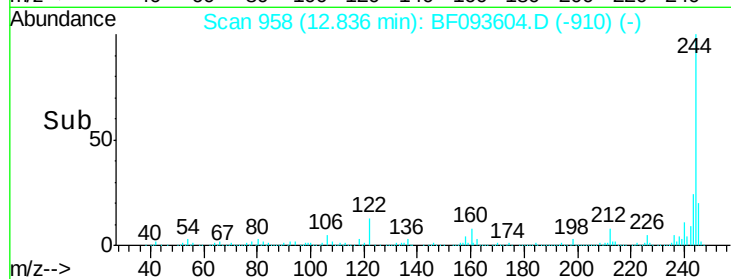
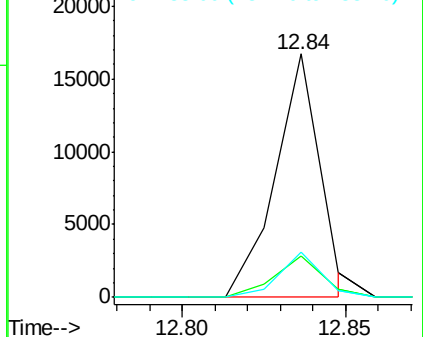
183 18.6 9.2 13.8#



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: 145.25 ng

RT: 12.84 min Scan# 958

Delta R.T. 0.01 min

Lab File: BF093604.D

Acq: 13 Mar 2017 13:52

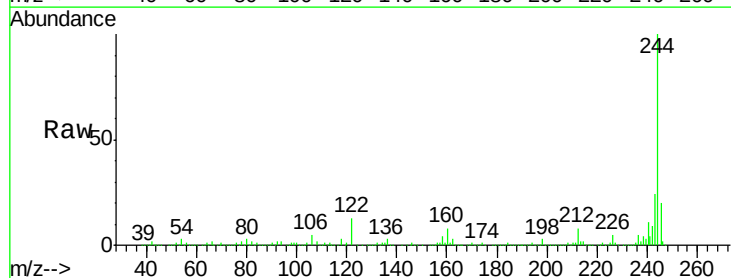
Tgt Ion:244 Resp: 1221757

Ion Ratio Lower Upper

244 100

212 7.8 6.2 9.2

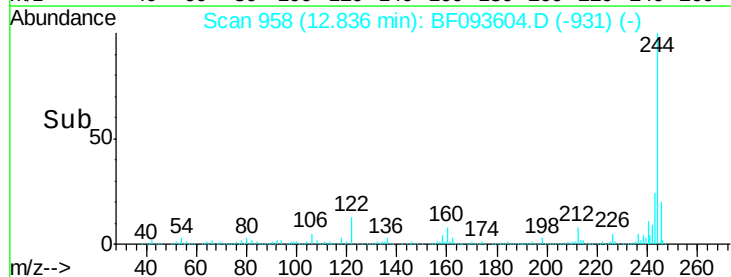
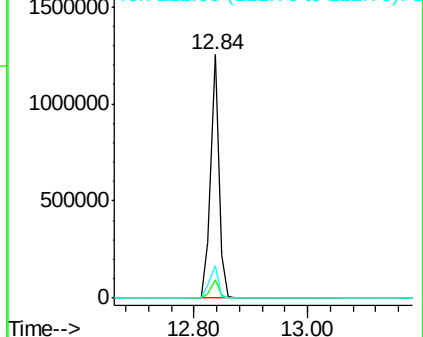
122 13.3 11.4 17.2

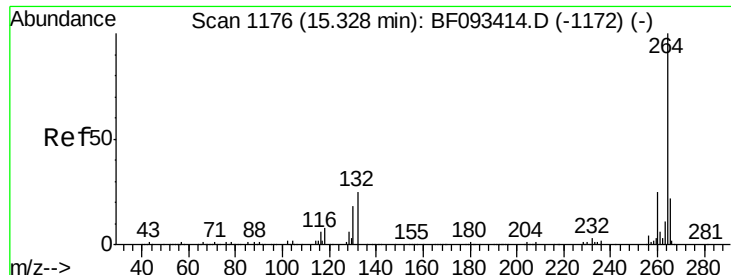


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.32 min Scan# 1175  
Delta R.T. 0.03 min  
Lab File: BF093604.D  
Acq: 13 Mar 2017 13:52

Instrument :  
BNA\_F  
ClientSampleId :  
D-64

Tgt Ion: 264 Resp: 10218  
Ion Ratio Lower Upper  
264 100  
260 42.4 19.2 28.8#  
265 20.4 17.4 26.0

