

Data Path : Z:\HPCHEM1\BNA F\Data\BF031517\  
 Data File : BF093666.D  
 Acq On : 15 Mar 2017 14:30  
 Operator : SJ/MA  
 Sample : PB97589BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97589BL

Quant Time: Mar 15 19:19:07 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

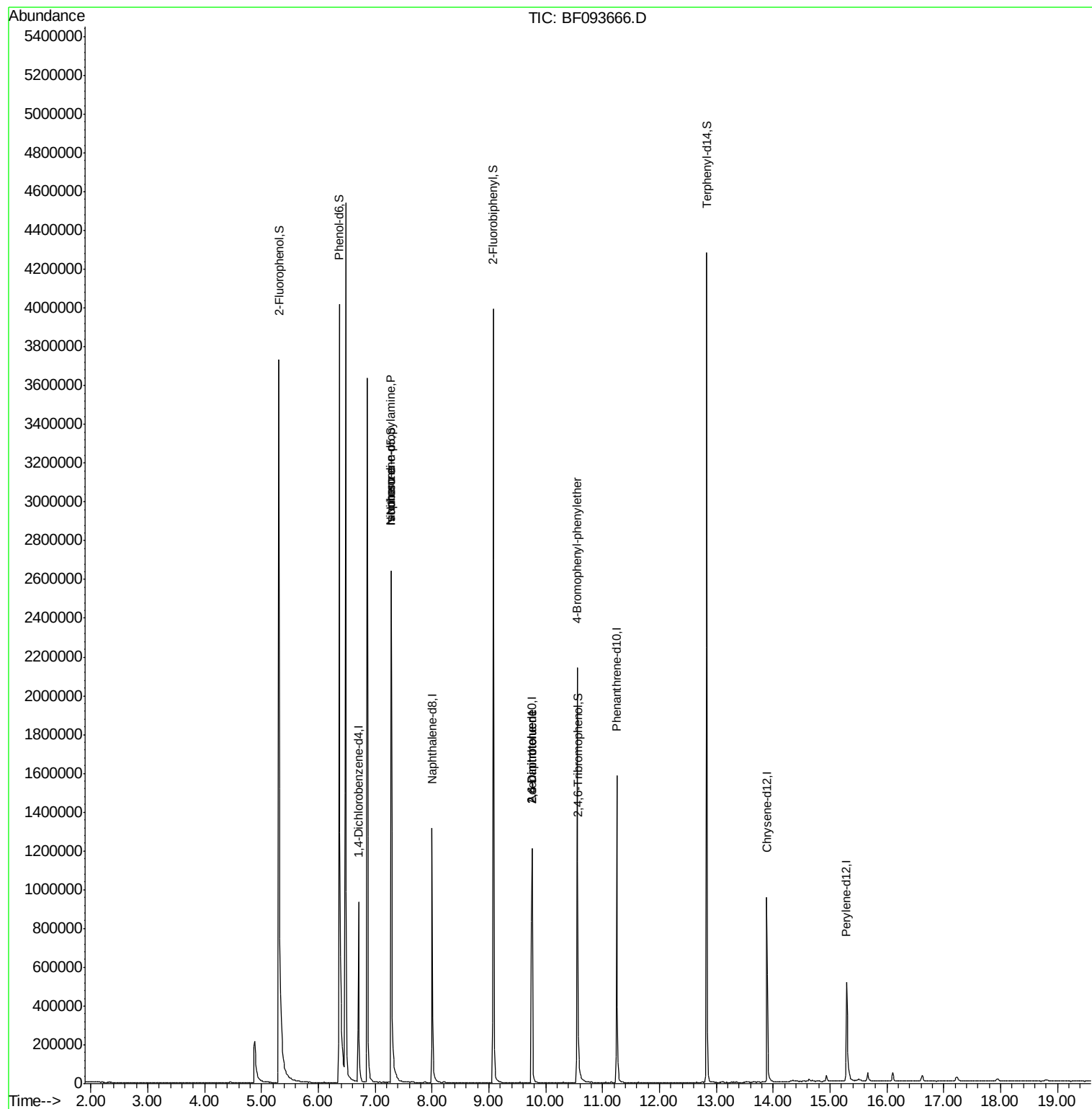
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.71  | 152  | 165067   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.00  | 136  | 683984   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.76  | 164  | 325623   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.25 | 188  | 627086   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.89 | 240  | 449369   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.29 | 264  | 304670   | 20.00     | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.30  | 112  | 1463572  | 147.57    | ng    | -0.01    |
| 7) Phenol-d6                   | 6.37  | 99   | 1820947  | 145.60    | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.28  | 82   | 1132991  | 91.91     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 297260   | 140.12    | ng    | 0.01     |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 1704415  | 97.36     | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.84 | 244  | 1500147  | 86.79     | ng    | 0.01     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.37  | 77   | 3749     | Below Cal | #     | 42       |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70   | 150750   | 17.53     | ng    | # 86     |
| 25) Isophorone                 | 7.28  | 82   | 1126573  | 45.32     | ng    | # 65     |
| 50) 2,6-Dinitrotoluene         | 9.76  | 165  | 41640    | 8.79      | ng    | # 32     |
| 56) 2,4-Dinitrotoluene         | 9.76  | 165  | 41634    | 7.15      | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 21331    | 3.22      | ng    | # 1      |

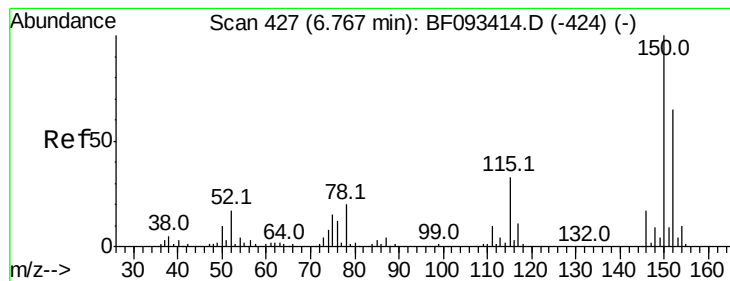
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 13 15:05:08 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.71 min Scan# 422

Delta R.T. -0.01 min

Lab File: BF093666.D

Acq: 15 Mar 2017 14:30

Instrument :

BNA\_F

ClientSampleId :

PB97589BL

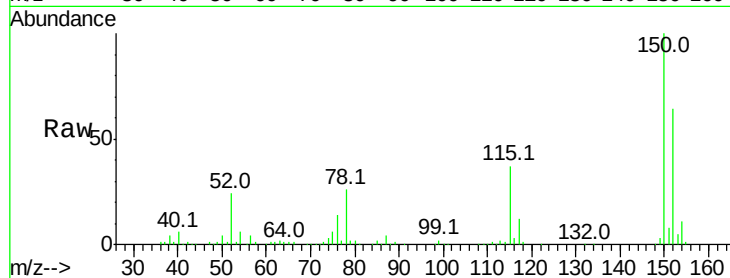
Tot Ion:152 Resp: 165067

Ion Ratio Lower Upper

152 100

150 155.7 124.9 187.3

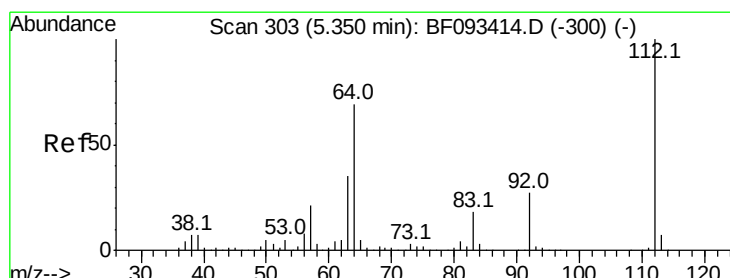
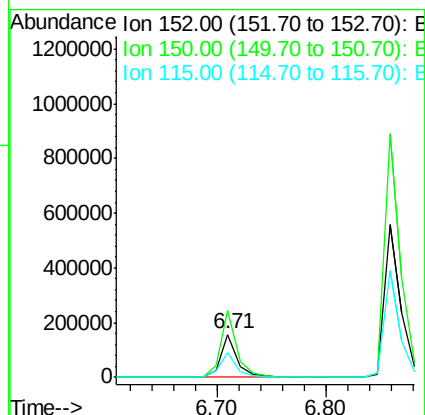
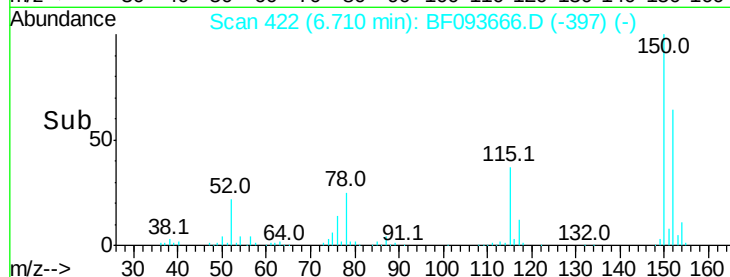
115 58.2 46.0 69.0



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: 147.57 ng

RT: 5.30 min Scan# 299

Delta R.T. -0.01 min

Lab File: BF093666.D

Acq: 15 Mar 2017 14:30

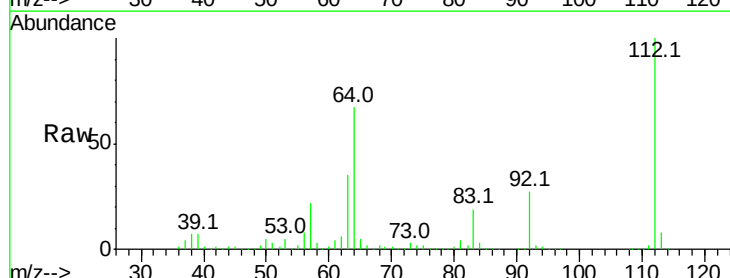
Tgt Ion:112 Resp: 1463572

Ion Ratio Lower Upper

112 100

64 67.0 46.1 69.1

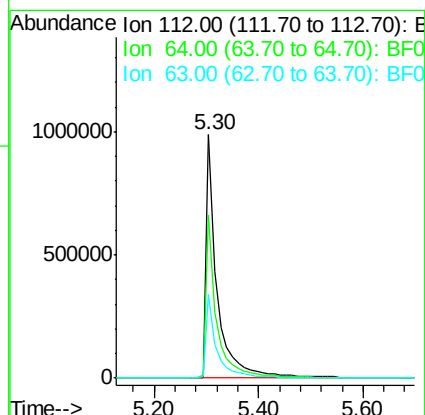
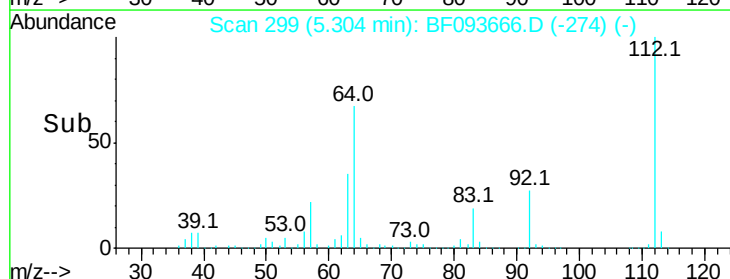
63 34.6 23.8 35.6

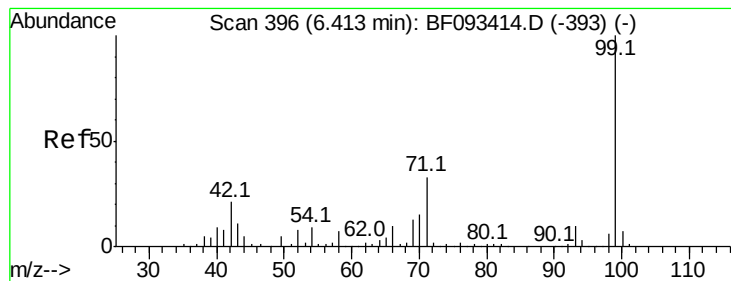


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 145.60 ng

RT: 6.37 min Scan# 392

Delta R.T. -0.01 min

Lab File: BF093666.D

Acq: 15 Mar 2017 14:30

Instrument :

BNA\_F

ClientSampleId :

PB97589BL

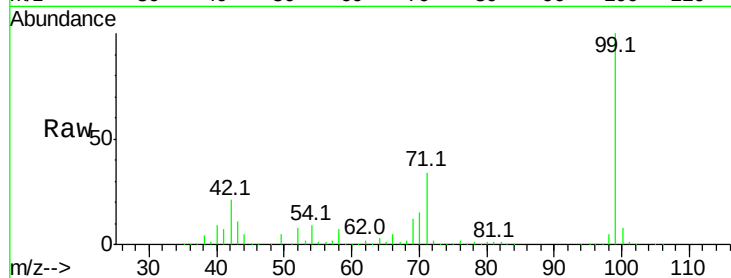
Tot Ion: 99 Resp: 1820947

Ion Ratio Lower Upper

99 100

42 21.4 15.6 23.4

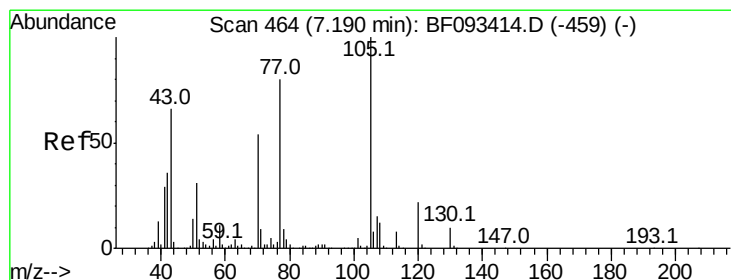
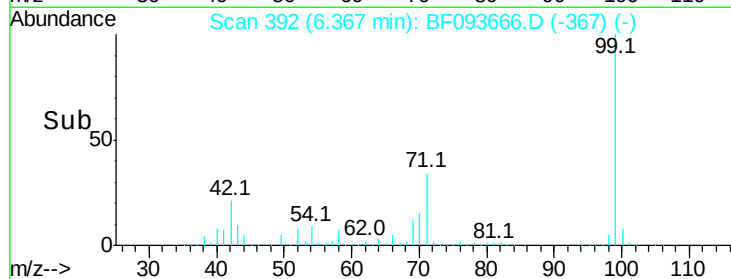
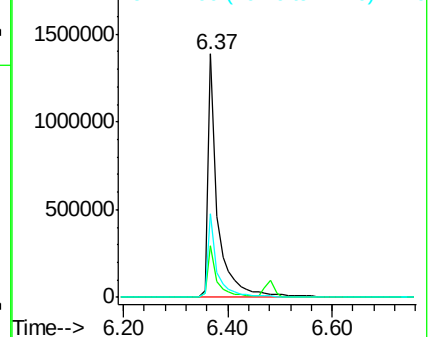
71 34.2 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 17.53 ng

RT: 7.28 min Scan# 472

Delta R.T. 0.14 min

Lab File: BF093666.D

Acq: 15 Mar 2017 14:30

Tgt Ion: 70 Resp: 150750

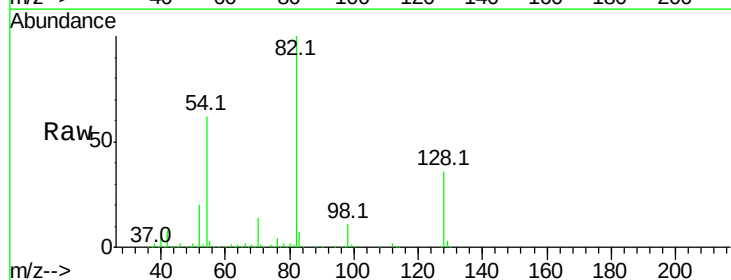
Ion Ratio Lower Upper

70 100

42 57.5 49.4 74.0

101 0.0 7.4 11.2#

130 1.7 14.2 21.4#

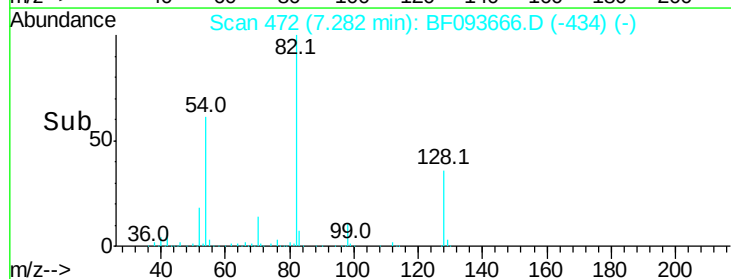
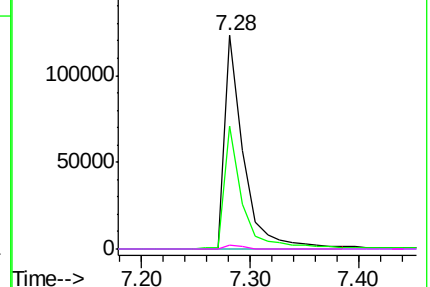


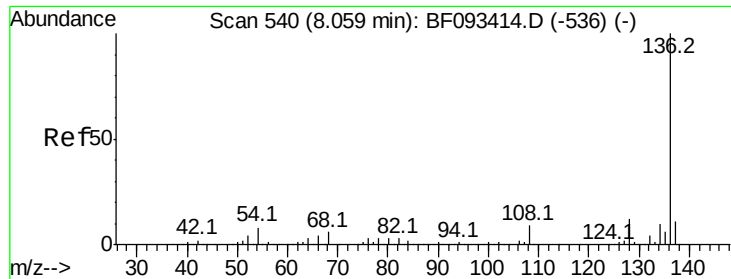
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

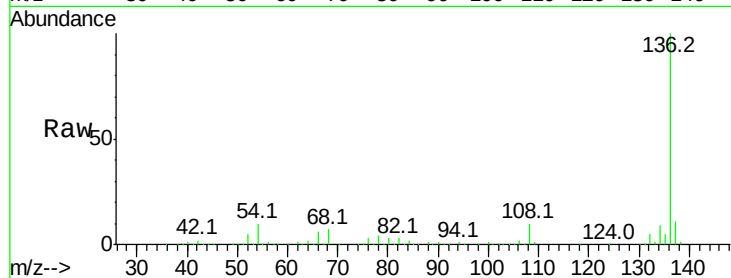




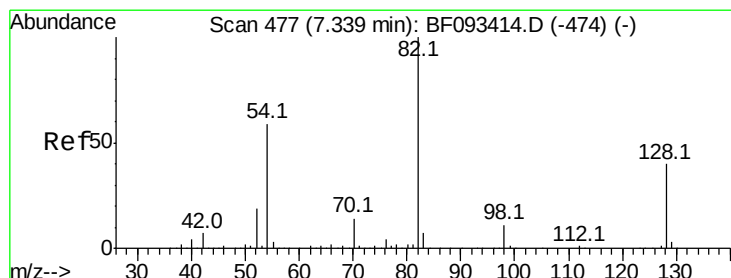
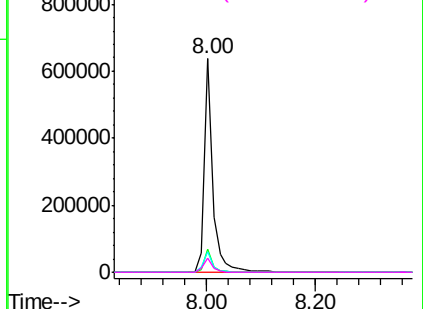
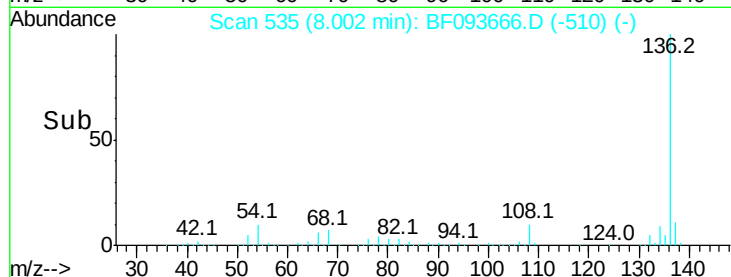
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: BF093666.D  
Acq: 15 Mar 2017 14:30

Instrument :  
BNA\_F  
ClientSampleId :  
PB97589BL

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 683984 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.4   | 12.6   |
| 54       | 9.7   | 4.5   | 6.7#   |
| 68       | 6.8   | 3.6   | 5.4#   |

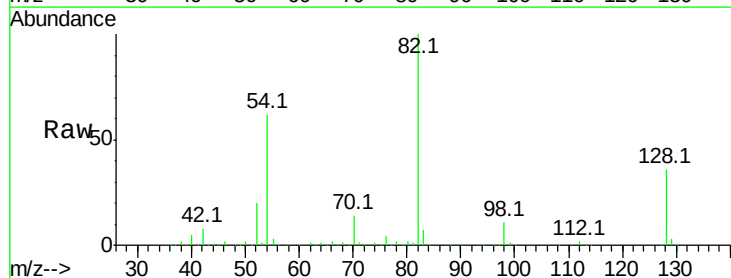


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

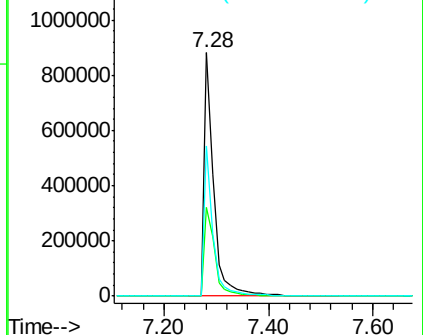
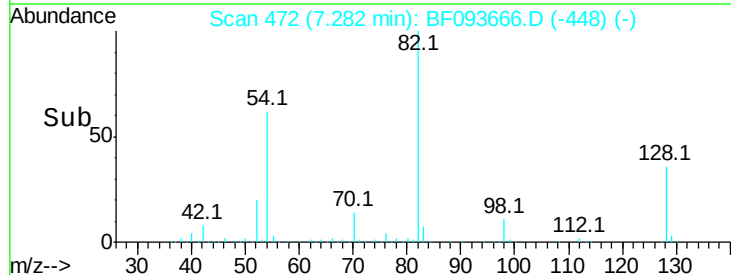


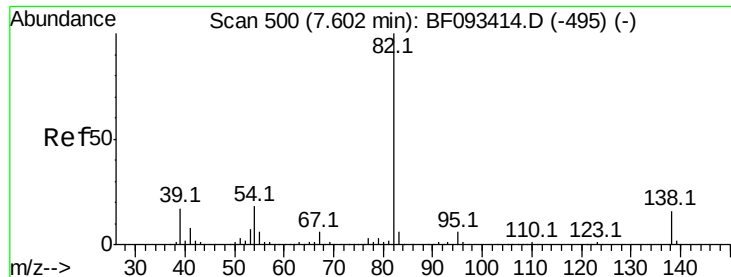
#23  
Nitrobenzene-d5  
Concen: 91.91 ng  
RT: 7.28 min Scan# 472  
Delta R.T. -0.02 min  
Lab File: BF093666.D  
Acq: 15 Mar 2017 14:30

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1132991 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 36.2  | 34.6  | 52.0    |
| 54       | 61.8  | 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





#25

Isophorone

Concen: 45.32 ng

RT: 7.28 min Scan# 472

Delta R.T. -0.27 min

Lab File: BF093666.D

Acq: 15 Mar 2017 14:30

Instrument :

BNA\_F

ClientSampleId :

PB97589BL

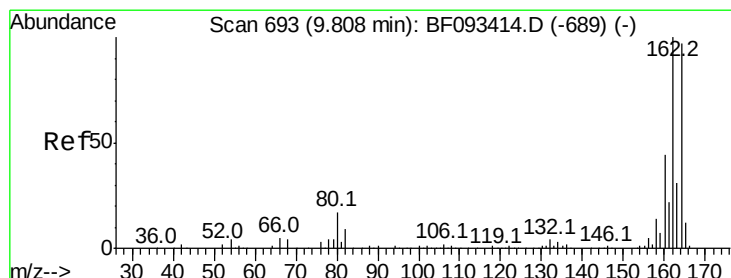
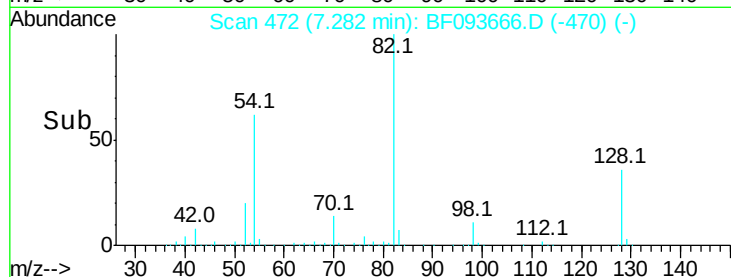
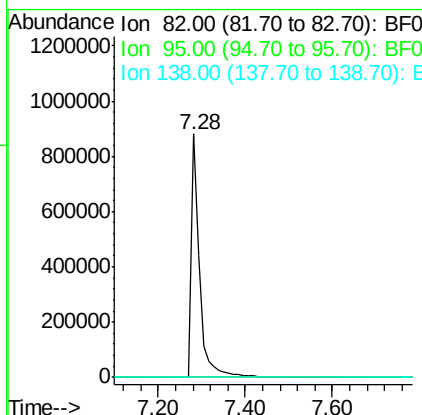
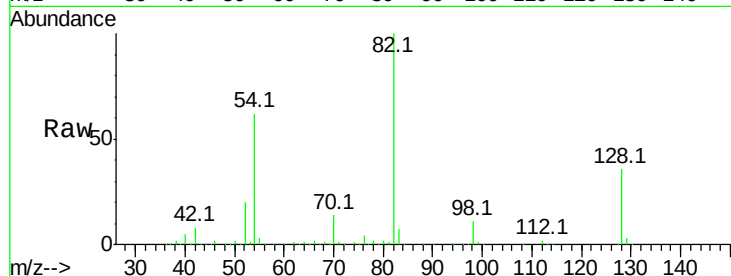
Tot Ion: 82 Resp: 1126573

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: 9.76 min Scan# 689

Delta R.T. -0.00 min

Lab File: BF093666.D

Acq: 15 Mar 2017 14:30

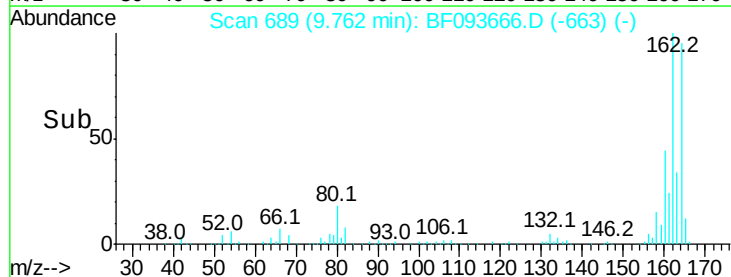
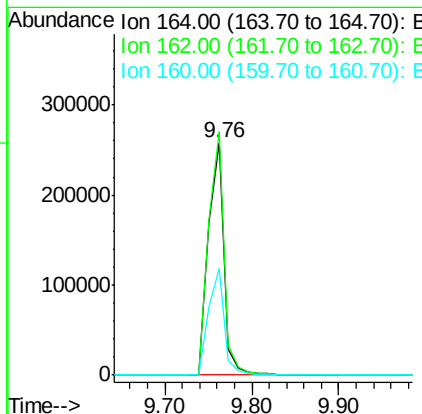
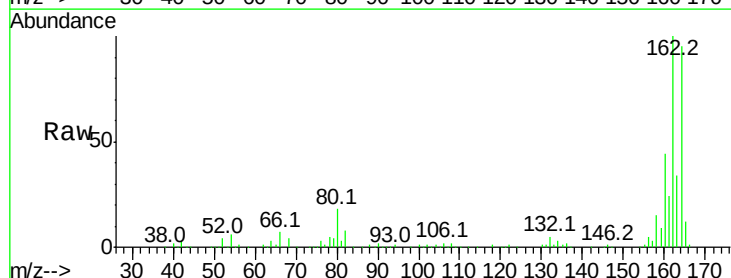
Tgt Ion:164 Resp: 325623

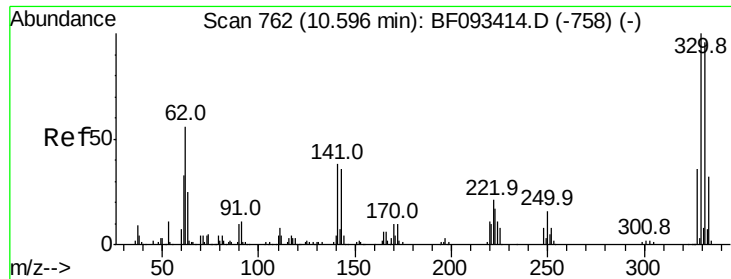
Ion Ratio Lower Upper

164 100

162 104.9 80.2 120.2

160 46.1 36.9 55.3

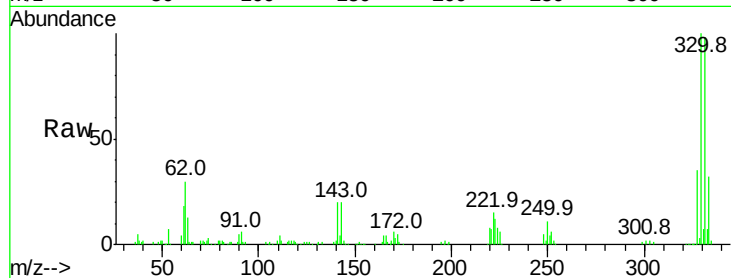




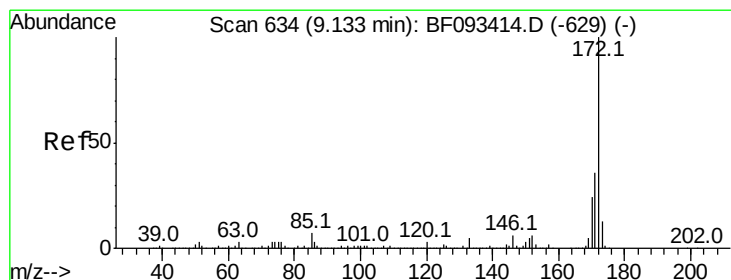
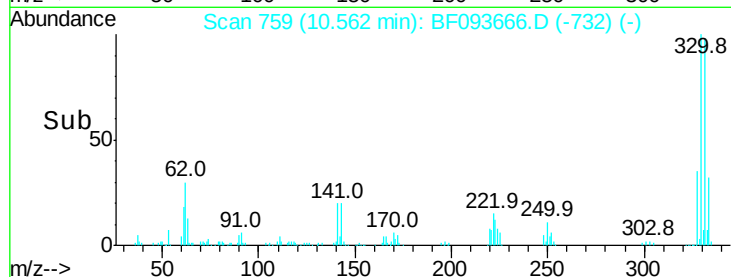
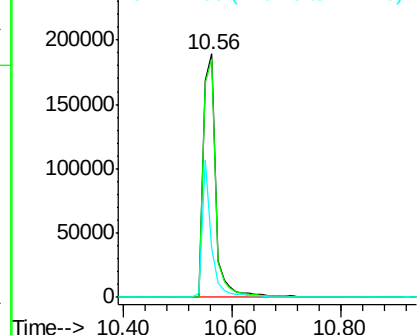
#41  
 2,4,6-Tribromophenol  
 Concen: 140.12 ng  
 RT: 10.56 min Scan# 759  
 Delta R.T. 0.01 min  
 Lab File: BF093666.D  
 Acq: 15 Mar 2017 14:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97589BL

Tot Ion:330 Resp: 297260  
 Ion Ratio Lower Upper  
 330 100  
 332 97.5 77.4 116.2  
 141 41.4 34.1 51.1

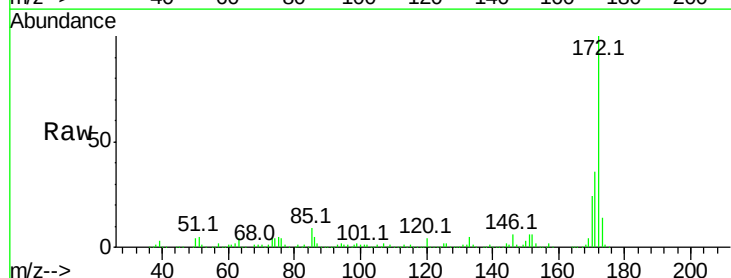


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

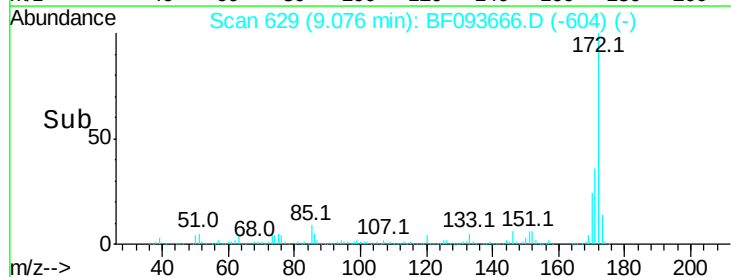
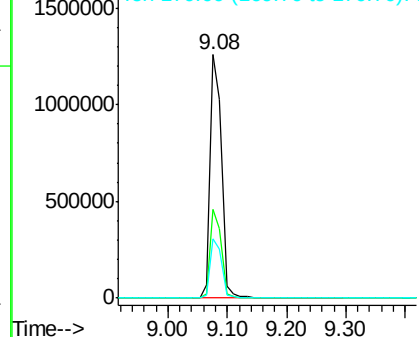


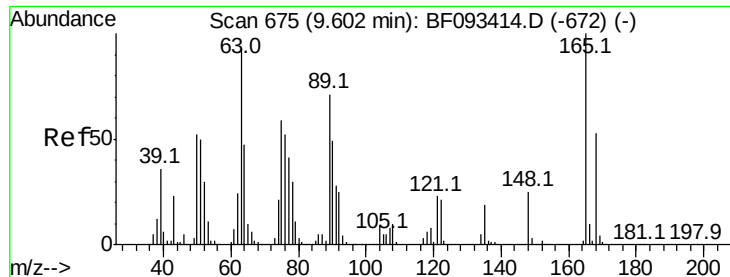
#44  
 2-Fluorobiphenyl  
 Concen: 97.36 ng  
 RT: 9.08 min Scan# 629  
 Delta R.T. -0.01 min  
 Lab File: BF093666.D  
 Acq: 15 Mar 2017 14:30

Tgt Ion:172 Resp: 1704415  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 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

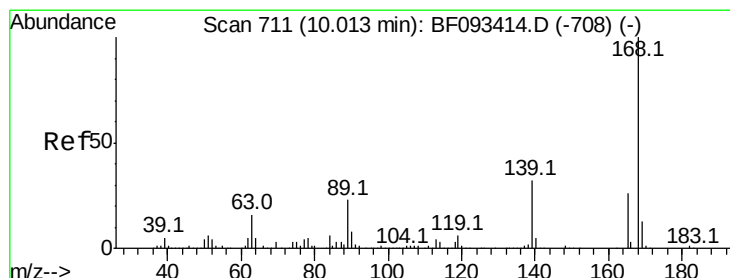
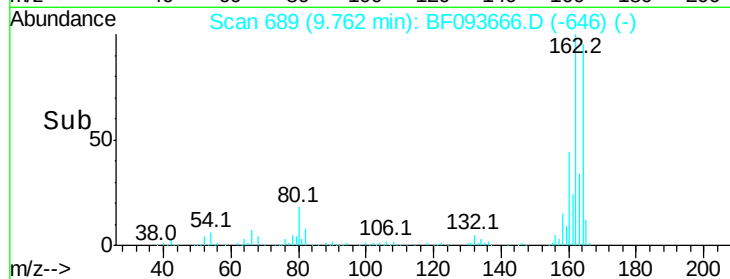
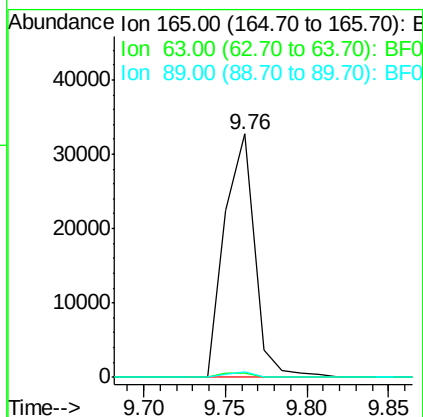
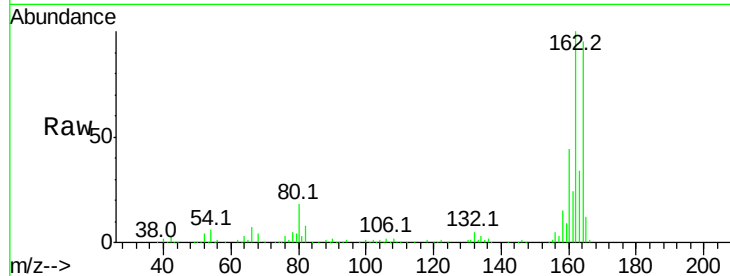




#50  
 2,6-Dinitrotoluene  
 Concen: 8.79 ng  
 RT: 9.76 min Scan# 689  
 Delta R.T. 0.19 min  
 Lab File: BF093666.D  
 Acq: 15 Mar 2017 14:30

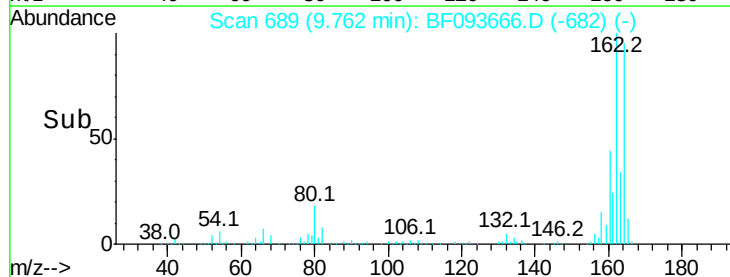
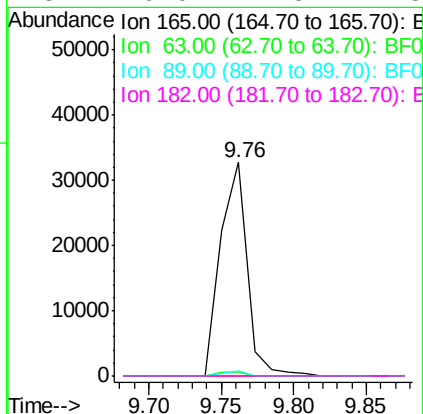
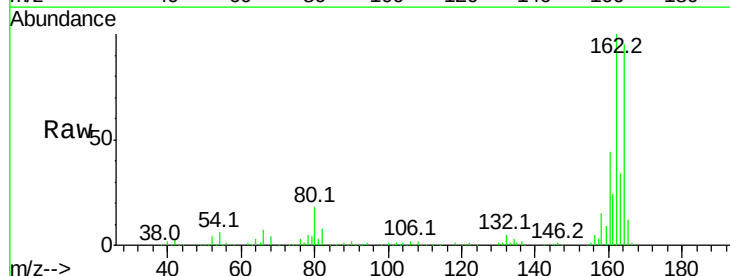
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97589BL

Tot Ion:165 Resp: 41640  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 36.2 54.4#  
 89 2.1 40.2 60.4#

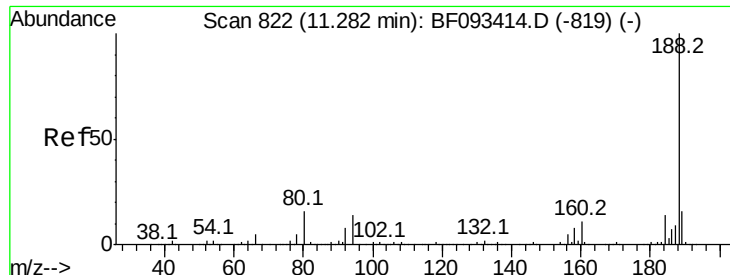


#56  
 2,4-Dinitrotoluene  
 Concen: 7.15 ng  
 RT: 9.76 min Scan# 689  
 Delta R.T. -0.22 min  
 Lab File: BF093666.D  
 Acq: 15 Mar 2017 14:30

Tgt Ion:165 Resp: 41634  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 40.2 60.4#  
 89 2.1 62.5 93.7#  
 182 0.0 1.8 2.8#



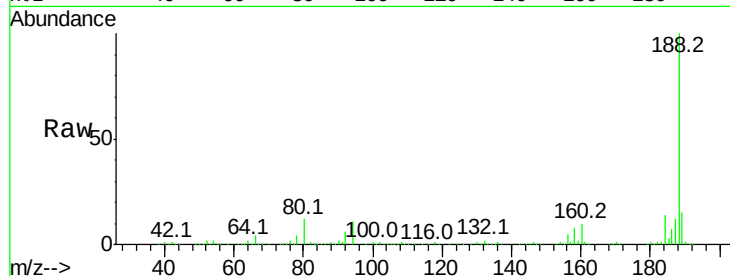




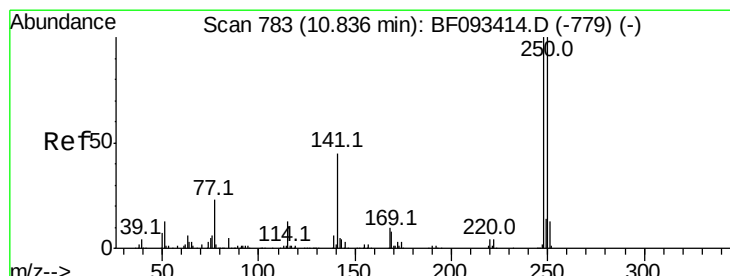
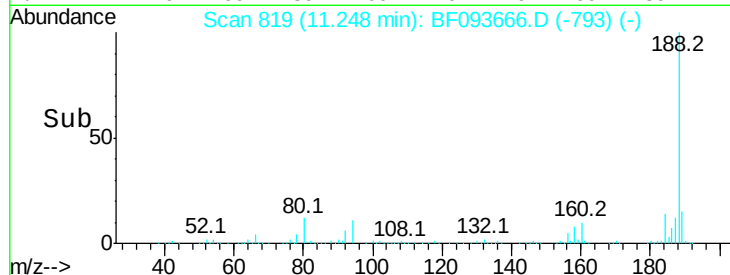
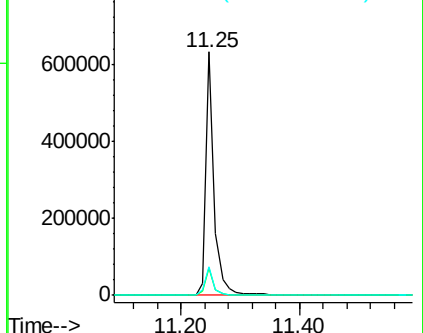
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 819  
Delta R.T. -0.00 min  
Lab File: BF093666.D  
Acq: 15 Mar 2017 14:30

Instrument :  
BNA\_F  
ClientSampleId :  
PB97589BL

Tot Ion:188 Resp: 627086  
Ion Ratio Lower Upper  
188 100  
94 11.0 10.0 15.0  
80 11.7 11.2 16.8

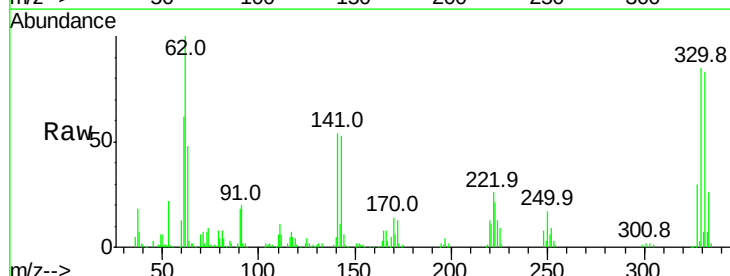


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

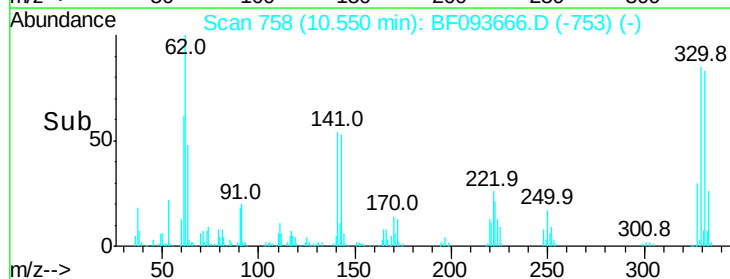
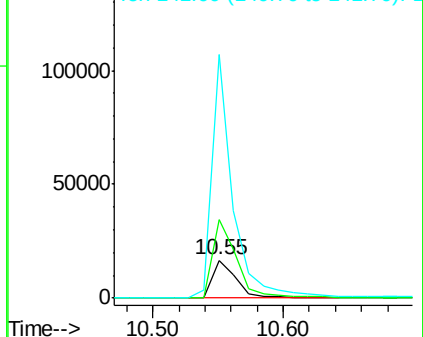


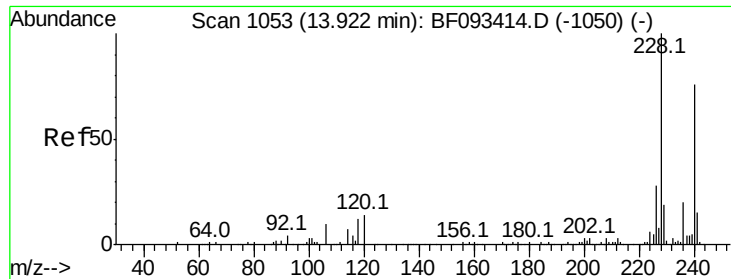
#66  
4-Bromophenyl-phenylether  
Concen: 3.22 ng  
RT: 10.55 min Scan# 758  
Delta R.T. -0.24 min  
Lab File: BF093666.D  
Acq: 15 Mar 2017 14:30

Tgt Ion:248 Resp: 21331  
Ion Ratio Lower Upper  
248 100  
250 206.5 76.9 115.3#  
141 641.7 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

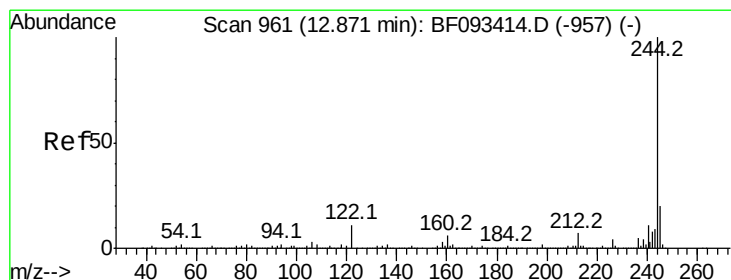
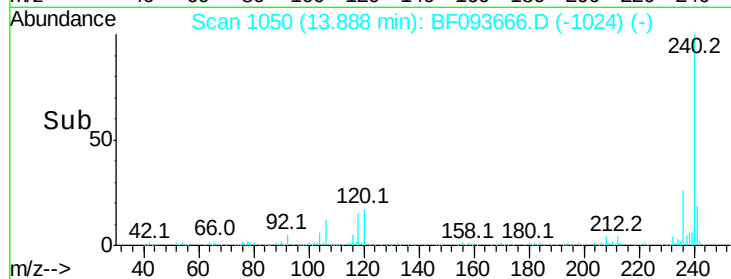
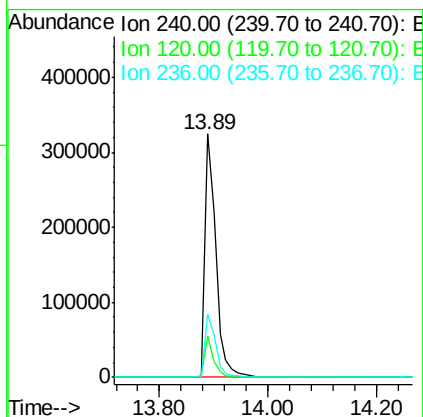
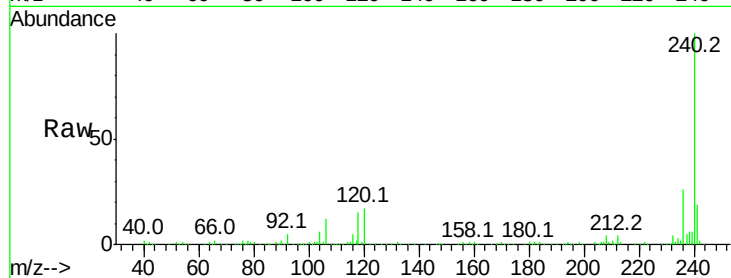




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.89 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: BF093666.D  
 Acq: 15 Mar 2017 14:30

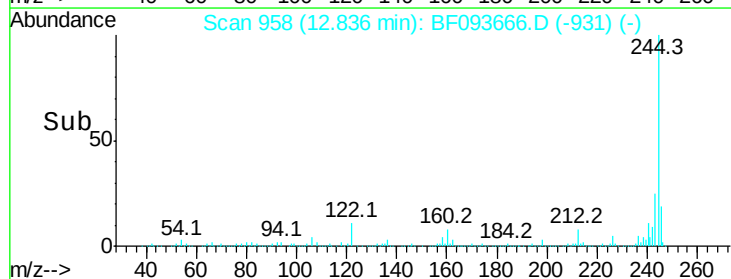
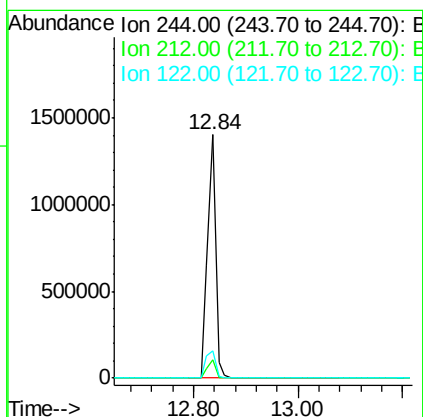
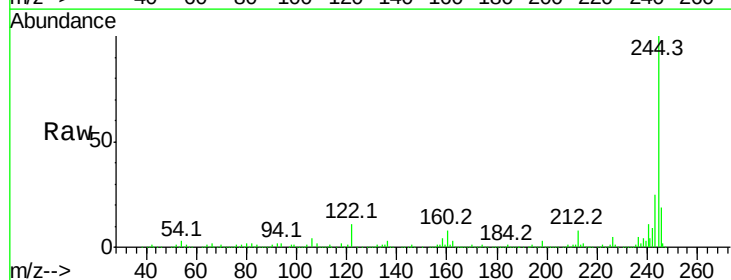
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97589BL

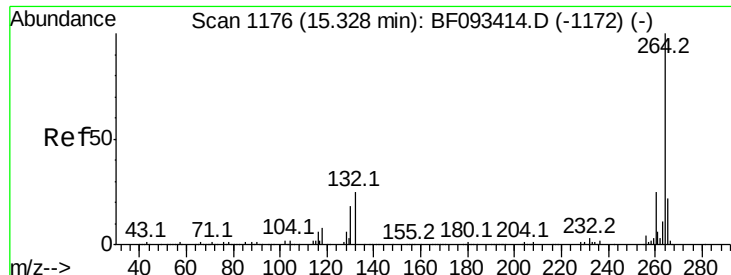
Tot Ion:240 Resp: 449369  
 Ion Ratio Lower Upper  
 240 100  
 120 17.2 12.9 19.3  
 236 25.9 20.9 31.3



#78  
 Terphenyl-d14  
 Concen: 86.79 ng  
 RT: 12.84 min Scan# 958  
 Delta R.T. 0.01 min  
 Lab File: BF093666.D  
 Acq: 15 Mar 2017 14:30

Tgt Ion:244 Resp: 1500147  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 6.2 9.2  
 122 11.4 11.4 17.2

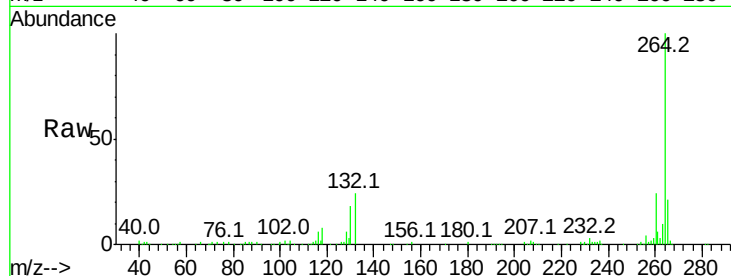




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.29 min Scan# 1173  
 Delta R.T. 0.01 min  
 Lab File: BF093666.D  
 Acq: 15 Mar 2017 14:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97589BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.2  | 28.8  |
| 265     | 21.0  | 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

