

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062016\  
 Data File : BF088179.D  
 Acq On : 20 Jun 2016 18:56  
 Operator : UM/SJ  
 Sample : PB91406BL  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91406BL

Quant Time: Jun 21 01:01:55 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 20 17:39:32 2016  
 Response via : Initial Calibration

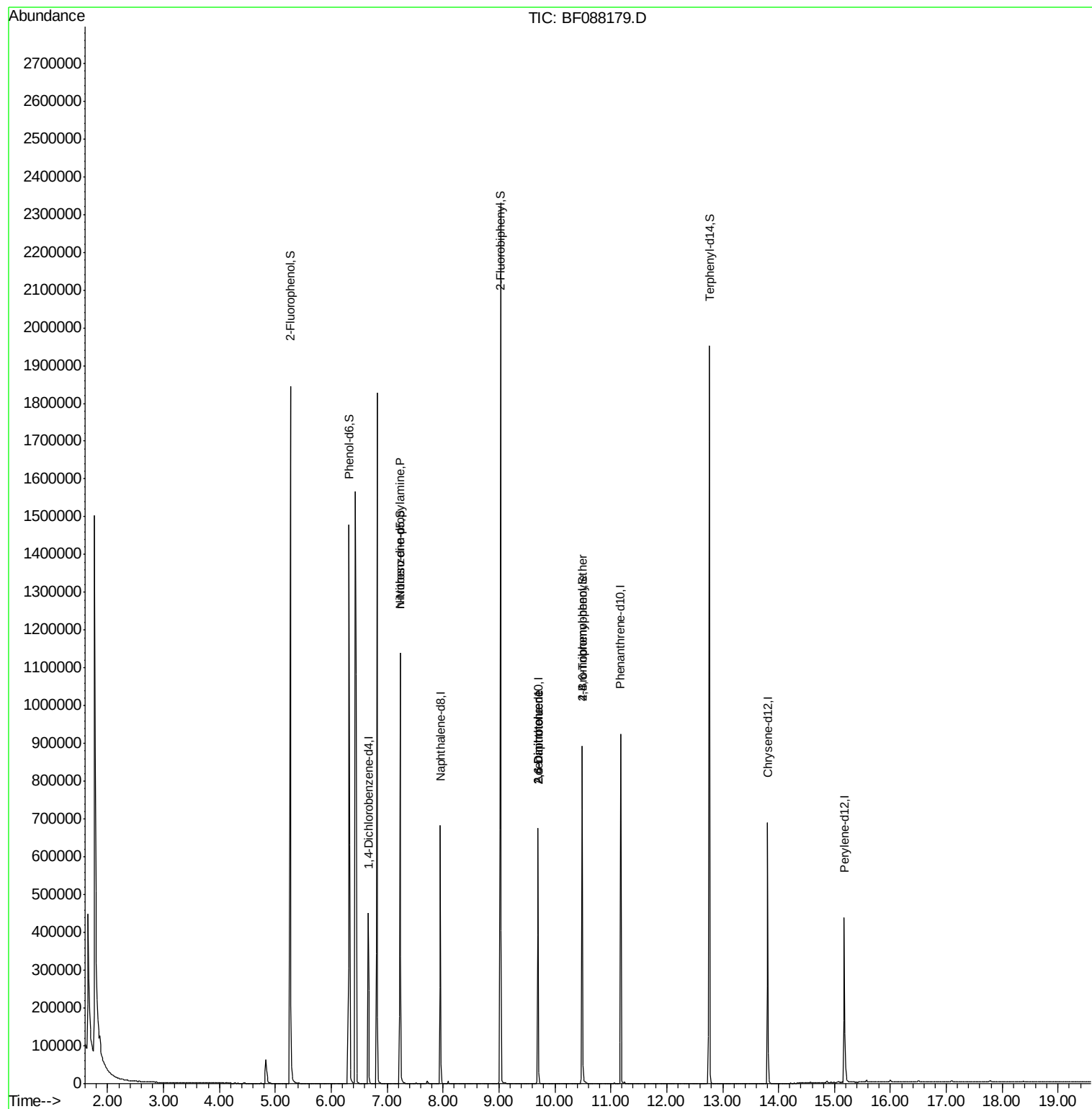
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.66  | 152  | 86590    | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.95  | 136  | 363551   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.70  | 164  | 166084   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.18 | 188  | 320477   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.81 | 240  | 265902   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.18 | 264  | 195342   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.27  | 112  | 607963   | 120.03    | ng    | 0.01     |
| 7) Phenol-d6                   | 6.32  | 99   | 683400   | 111.33    | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.23  | 82   | 416144   | 66.84     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.49 | 330  | 163000   | 92.95     | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.03  | 172  | 818823   | 76.92     | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.77 | 244  | 880704   | 75.37     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 10) Phenol                     | 6.43  | 94   | 1093     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.23  | 70   | 52919    | 13.48     | ng    | # 70     |
| 45) 1,1'-Biphenyl              | 9.03  | 154  | 1681     | Below Cal | #     | 1        |
| 50) 2,6-Dinitrotoluene         | 9.70  | 165  | 21030    | 7.63      | ng    | # 37     |
| 56) 2,4-Dinitrotoluene         | 9.70  | 165  | 21030    | 5.94      | ng    | # 36     |
| 57) Fluorene                   | 10.48 | 166  | 7874     | Below Cal | #     | 94       |
| 66) 4-Bromophenyl-phenylether  | 10.49 | 248  | 10433    | 3.03      | ng    | # 1      |

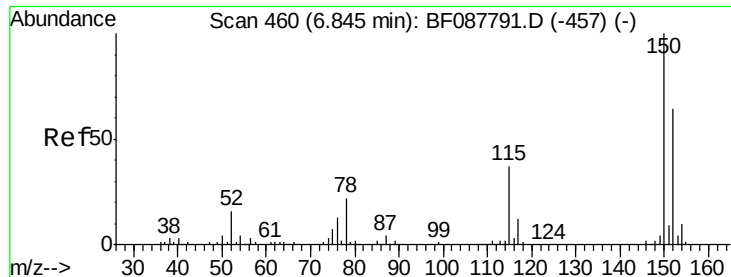
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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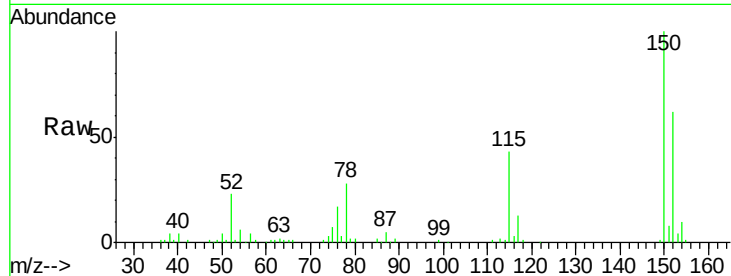


#1

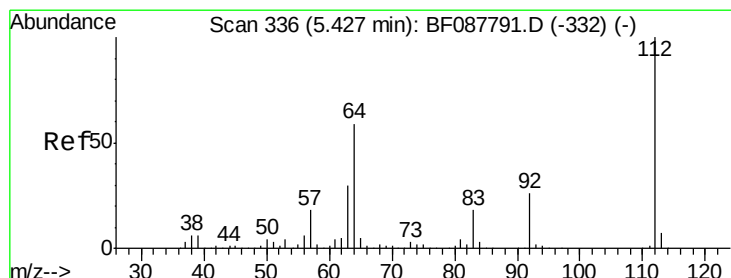
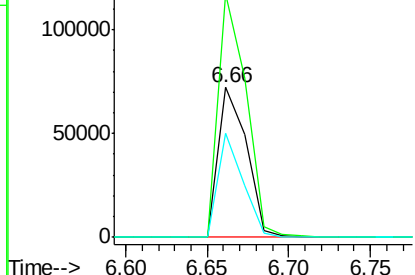
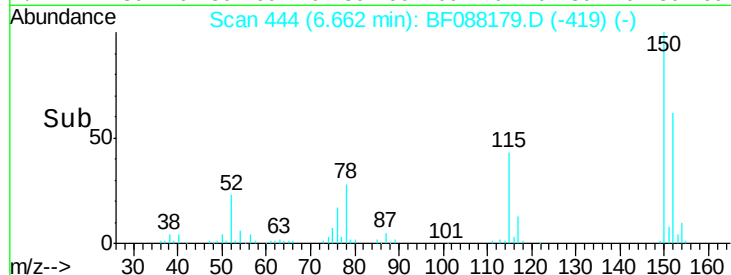
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.66 min Scan# 444  
 Delta R.T. -0.01 min  
 Lab File: BF088179.D  
 Acq: 20 Jun 2016 18:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91406BL

Tgt Ion:152 Resp: 86590  
 Ion Ratio Lower Upper  
 152 100  
 150 162.3 123.8 185.6  
 115 69.0 39.6 59.4#



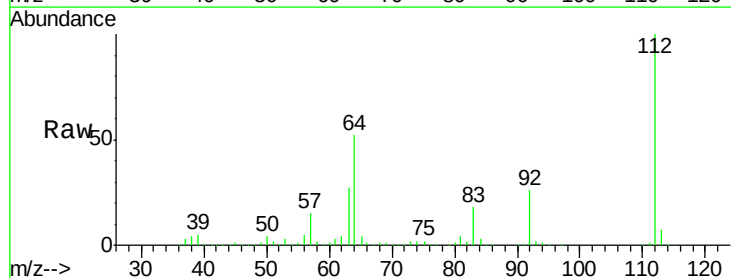
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



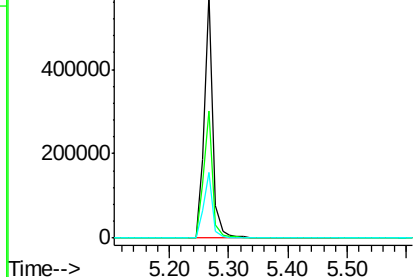
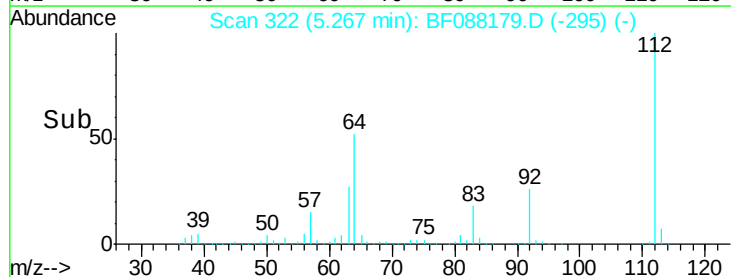
#5

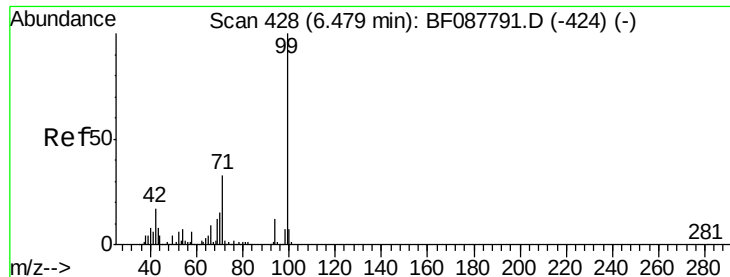
2-Fluorophenol  
 Concen: 120.03 ng  
 RT: 5.27 min Scan# 322  
 Delta R.T. 0.01 min  
 Lab File: BF088179.D  
 Acq: 20 Jun 2016 18:56

Tgt Ion:112 Resp: 607963  
 Ion Ratio Lower Upper  
 112 100  
 64 52.4 42.2 63.2  
 63 26.9 21.8 32.8



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: 111.33 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.01 min

Lab File: BF088179.D

Acq: 20 Jun 2016 18:56

Instrument :

BNA\_F

ClientSampleId :

PB91406BL

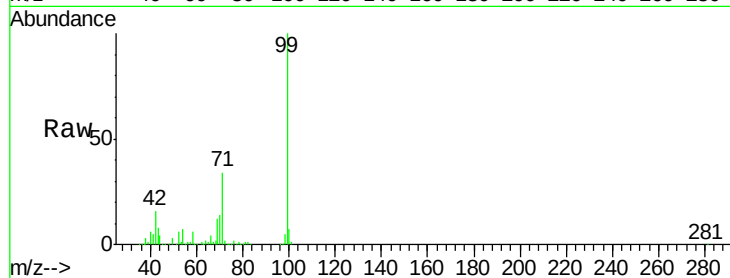
Tgt Ion: 99 Resp: 683400

Ion Ratio Lower Upper

99 100

42 15.6 12.2 18.2

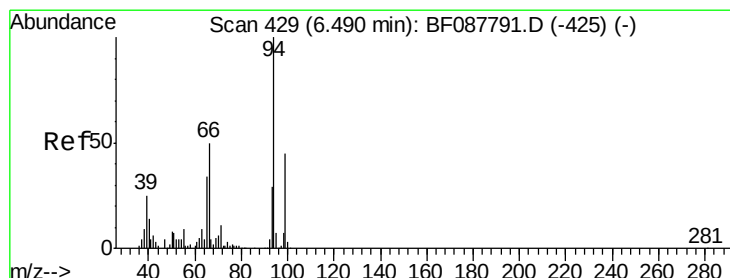
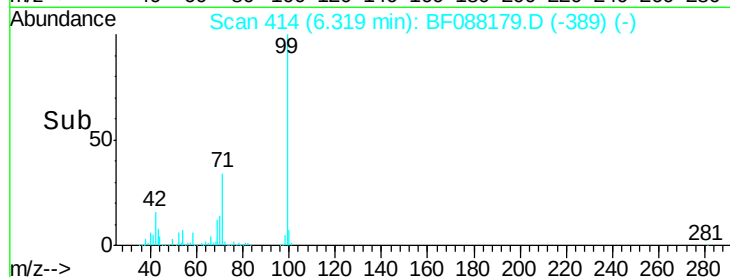
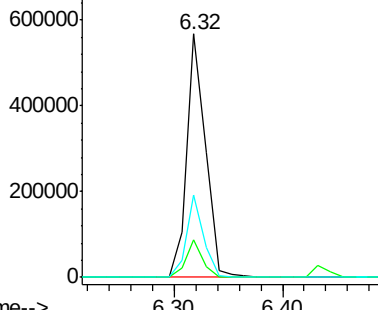
71 33.6 23.4 35.0



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: Below Cal

RT: 6.43 min Scan# 424

Delta R.T. 0.09 min

Lab File: BF088179.D

Acq: 20 Jun 2016 18:56

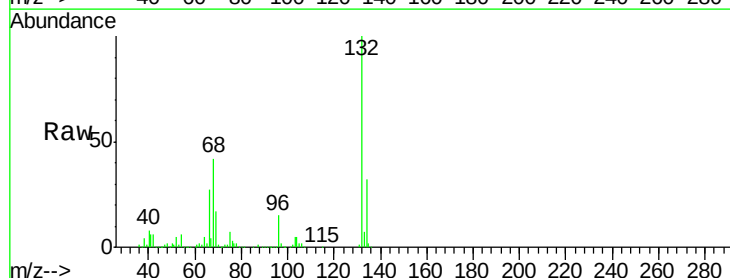
Tgt Ion: 94 Resp: 1093

Ion Ratio Lower Upper

94 100

65 989.8 5.9 45.9#

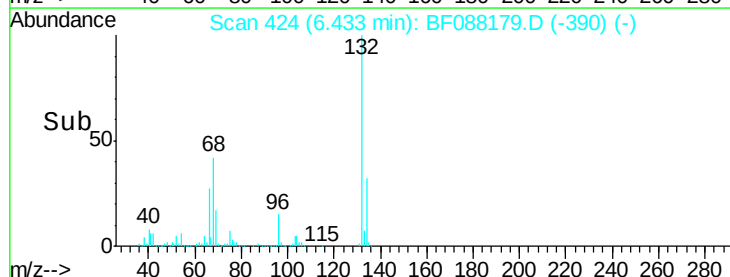
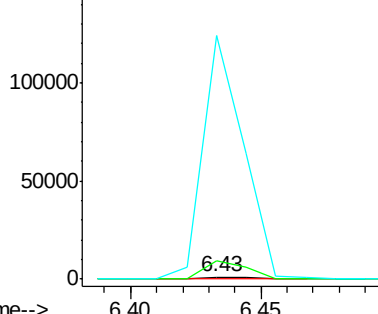
66 13134.7 14.0 54.0#

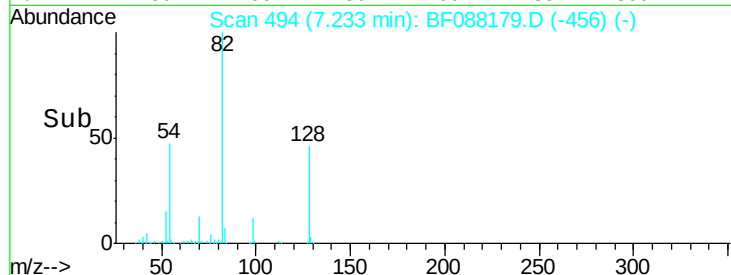
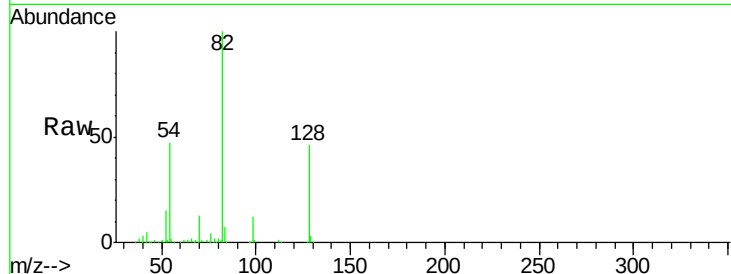
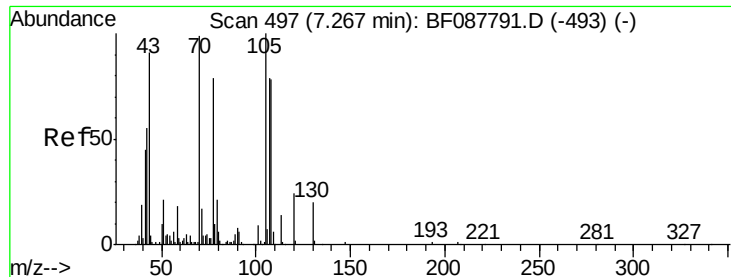


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

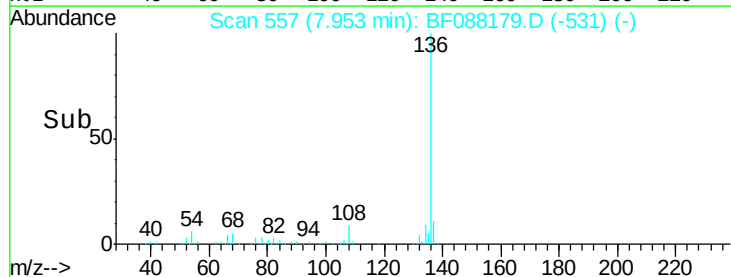
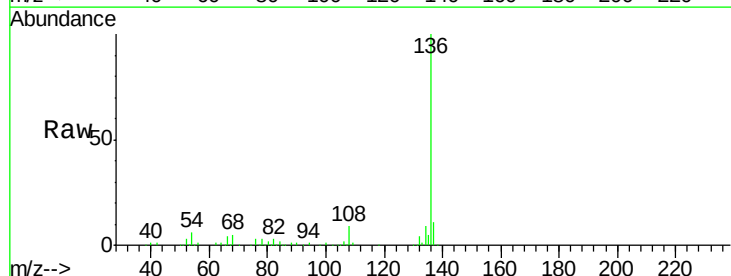
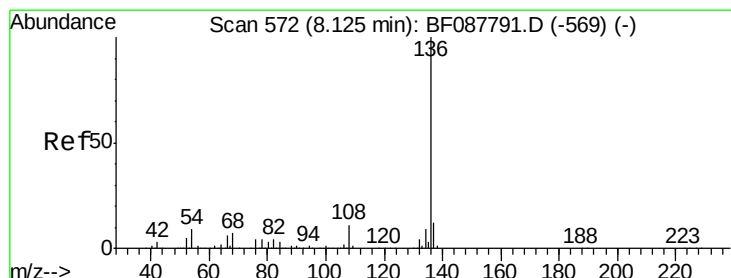
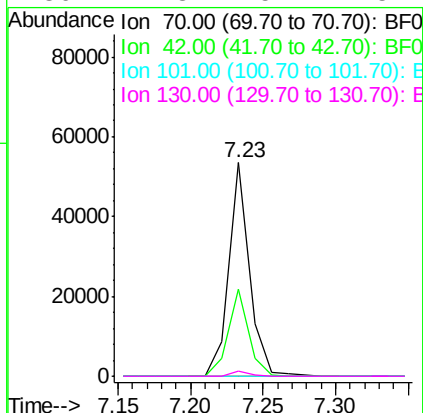




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.48 ng  
RT: 7.23 min Scan# 494  
Delta R.T. 0.14 min  
Lab File: BF088179.D  
Acq: 20 Jun 2016 18:56

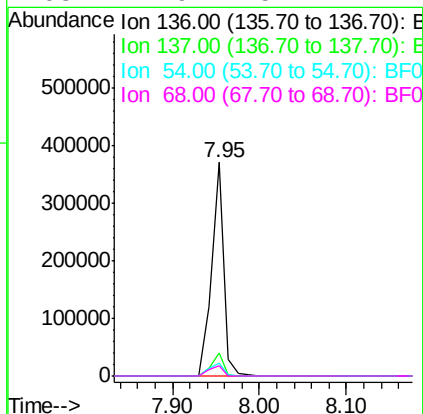
Instrument :  
BNA\_F  
ClientSampleId :  
PB91406BL

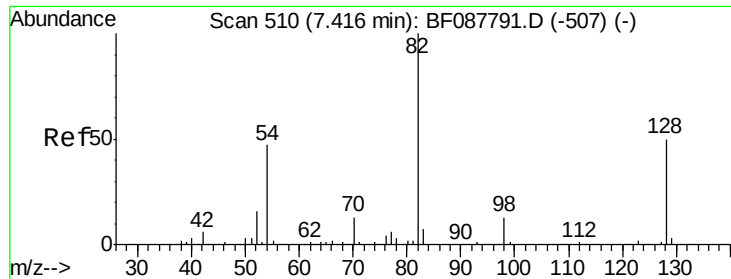
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 52919 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 40.7  | 49.6  | 74.4# |
| 101      | 0.0   | 7.1   | 10.7# |
| 130      | 2.3   | 15.4  | 23.2# |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.95 min Scan# 557  
Delta R.T. -0.00 min  
Lab File: BF088179.D  
Acq: 20 Jun 2016 18:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 363551 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 9.1   | 13.7   |
| 54       | 5.8   | 6.6   | 10.0#  |
| 68       | 4.9   | 5.1   | 7.7#   |

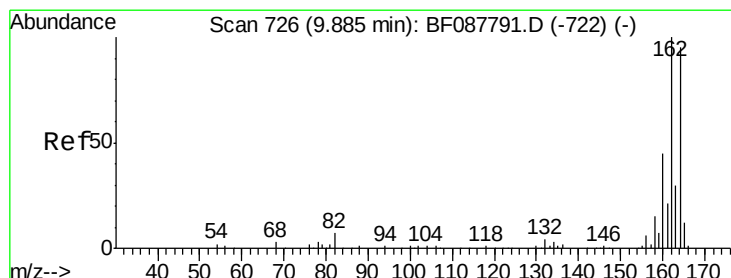
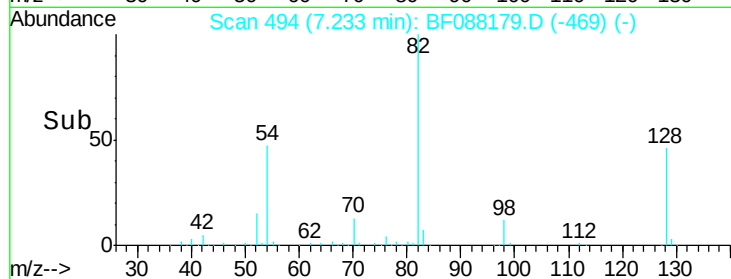
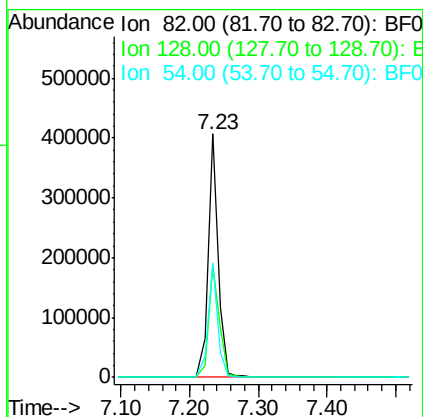
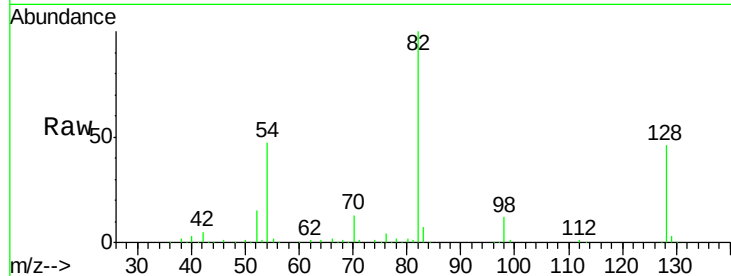




#23  
 Nitrobenzene-d5  
 Concen: 66.84 ng  
 RT: 7.23 min Scan# 494  
 Delta R.T. -0.01 min  
 Lab File: BF088179.D  
 Acq: 20 Jun 2016 18:56

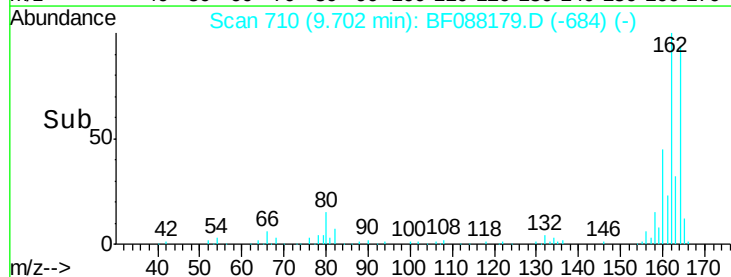
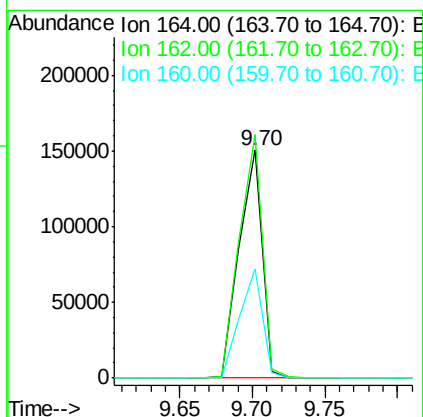
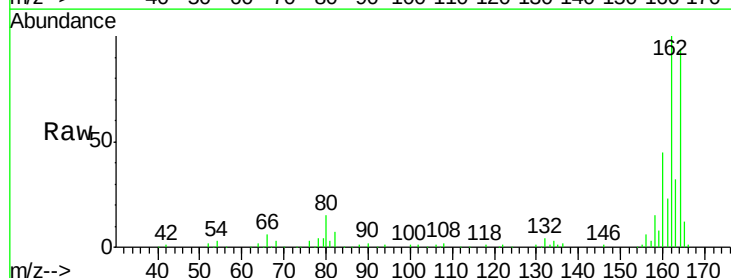
Instrument :  
 BNA\_F  
 ClientSampled :  
 PB91406BL

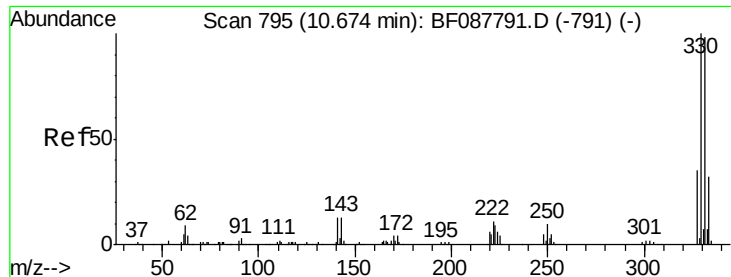
Tgt Ion: 82 Resp: 416144  
 Ion Ratio Lower Upper  
 82 100  
 128 45.8 35.9 53.9  
 54 46.9 40.9 61.3



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.70 min Scan# 710  
 Delta R.T. -0.00 min  
 Lab File: BF088179.D  
 Acq: 20 Jun 2016 18:56

Tgt Ion: 164 Resp: 166084  
 Ion Ratio Lower Upper  
 164 100  
 162 106.9 85.4 128.2  
 160 48.0 39.5 59.3

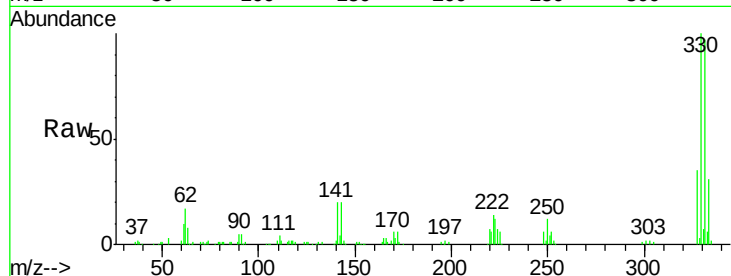




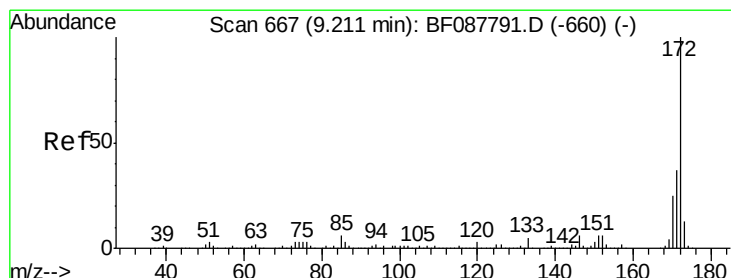
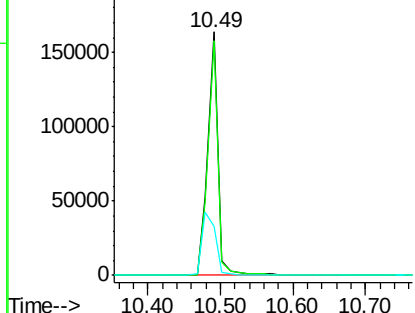
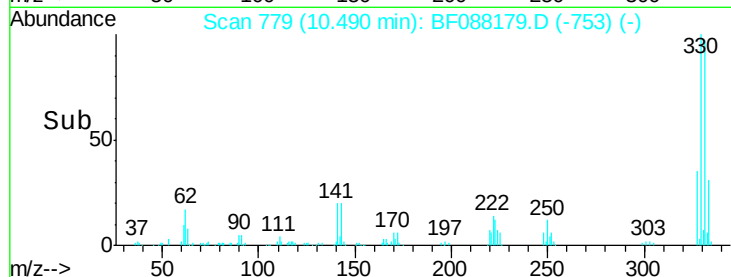
#41  
 2,4,6-Tribromophenol  
 Concen: 92.95 ng  
 RT: 10.49 min Scan# 779  
 Delta R.T. -0.00 min  
 Lab File: BF088179.D  
 Acq: 20 Jun 2016 18:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91406BL

Tgt Ion:330 Resp: 163000  
 Ion Ratio Lower Upper  
 330 100  
 332 95.6 0.0 0.0#  
 141 34.0 0.0 0.0#

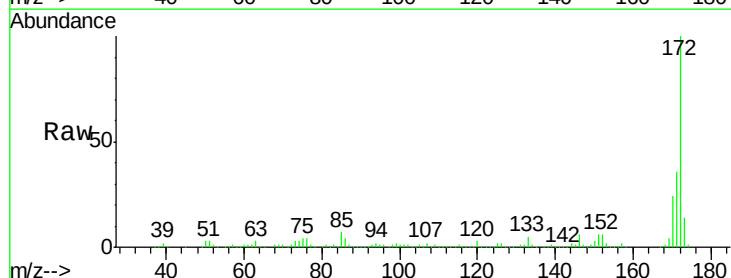


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

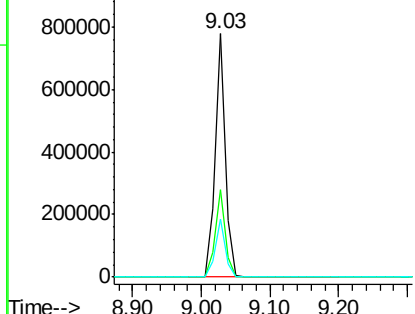
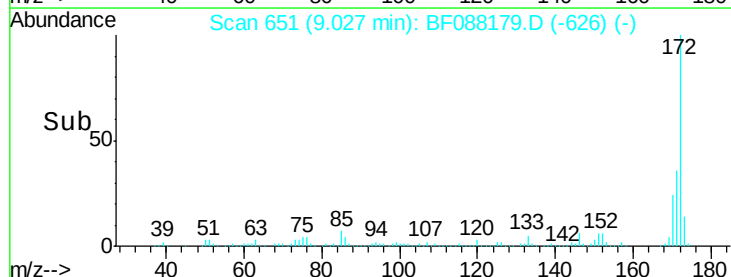


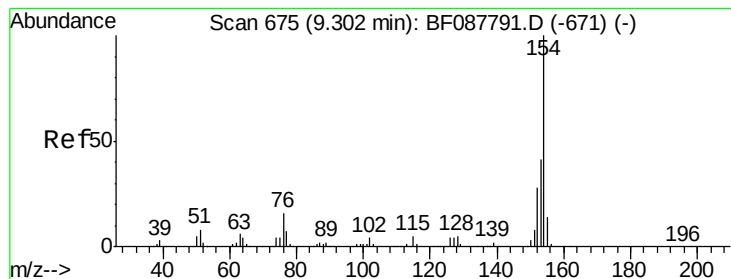
#44  
 2-Fluorobiphenyl  
 Concen: 76.92 ng  
 RT: 9.03 min Scan# 651  
 Delta R.T. -0.01 min  
 Lab File: BF088179.D  
 Acq: 20 Jun 2016 18:56

Tgt Ion:172 Resp: 818823  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 28.6 43.0  
 170 23.9 19.2 28.8



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





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.03 min Scan# 651

Delta R.T. -0.10 min

Lab File: BF088179.D

Acq: 20 Jun 2016 18:56

Instrument :

BNA\_F

ClientSampleId :

PB91406BL

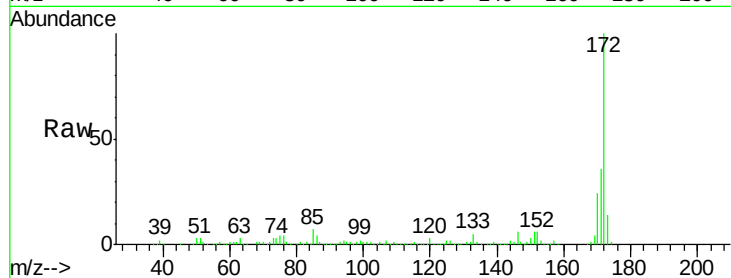
Tgt Ion:154 Resp: 1681

Ion Ratio Lower Upper

154 100

153 940.7 20.6 60.6#

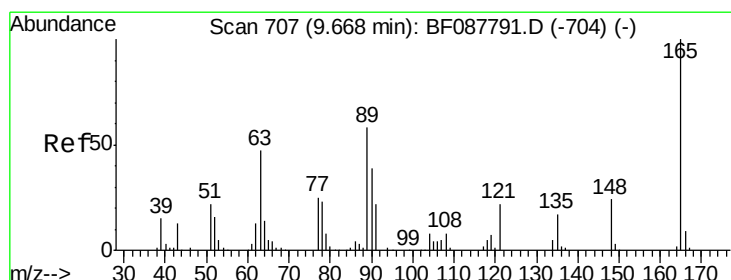
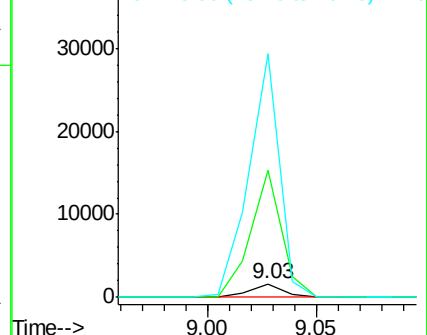
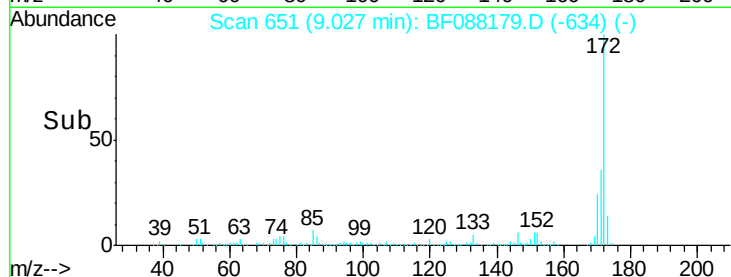
76 1807.5 0.0 35.1#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#50

2,6-Dinitrotoluene

Concen: 7.63 ng

RT: 9.70 min Scan# 710

Delta R.T. 0.19 min

Lab File: BF088179.D

Acq: 20 Jun 2016 18:56

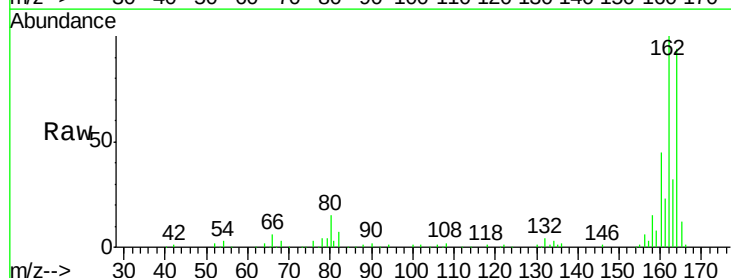
Tgt Ion:165 Resp: 21030

Ion Ratio Lower Upper

165 100

63 0.0 28.1 42.1#

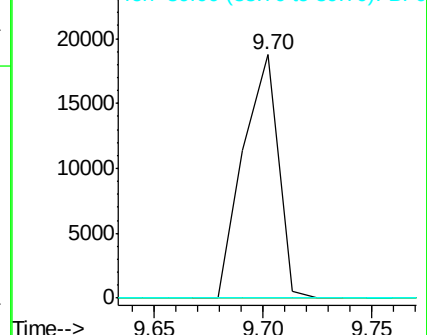
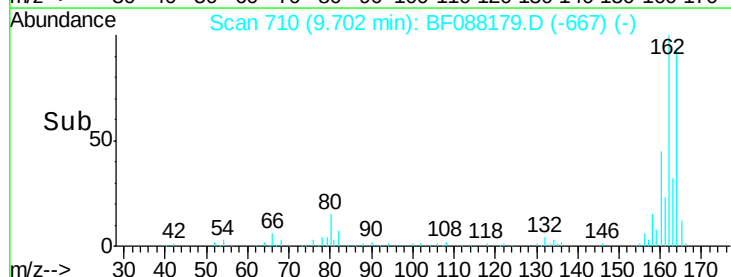
89 0.0 32.2 48.2#



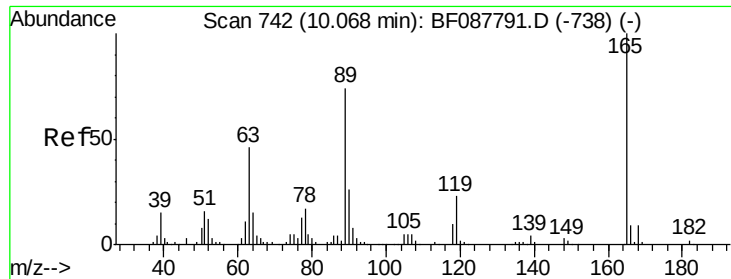
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



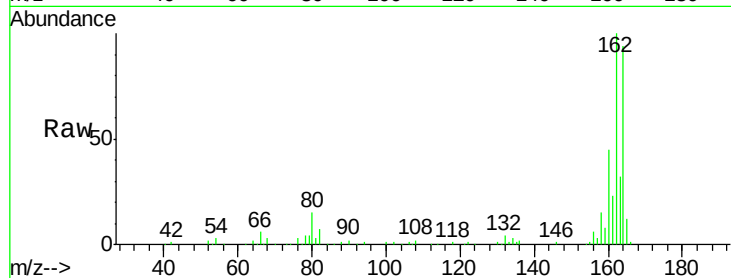




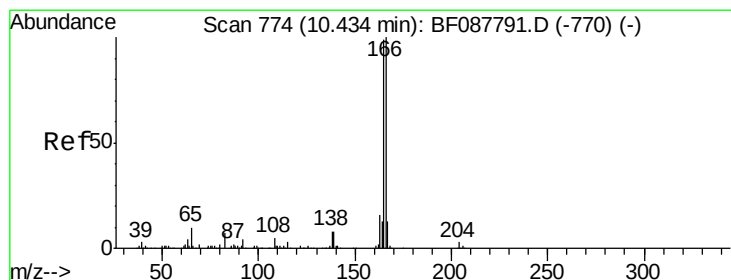
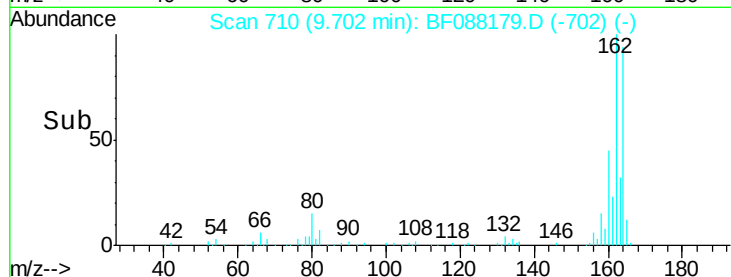
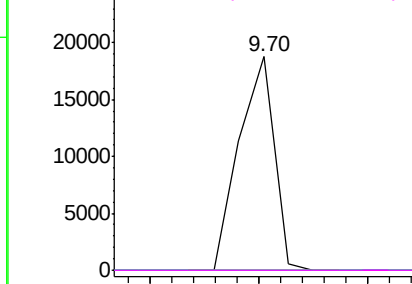
#56  
2,4-Dinitrotoluene  
Concen: 5.94 ng  
RT: 9.70 min Scan# 710  
Delta R.T. -0.21 min  
Lab File: BF088179.D  
Acq: 20 Jun 2016 18:56

Instrument :  
BNA\_F  
ClientSampleId :  
PB91406BL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 21030 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 0.0   | 22.0  | 33.0# |
| 89        | 0.0   | 41.1  | 61.7# |
| 182       | 0.0   | 2.0   | 3.0#  |

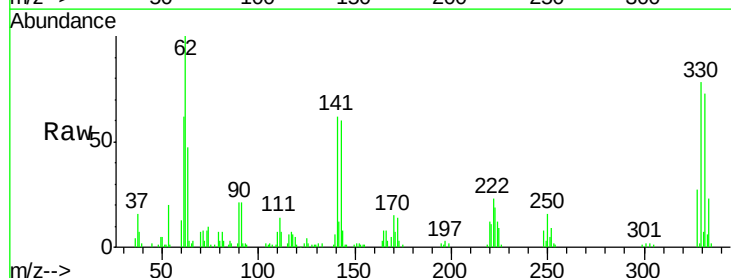


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0  
Ion 182.00 (181.70 to 182.70): E

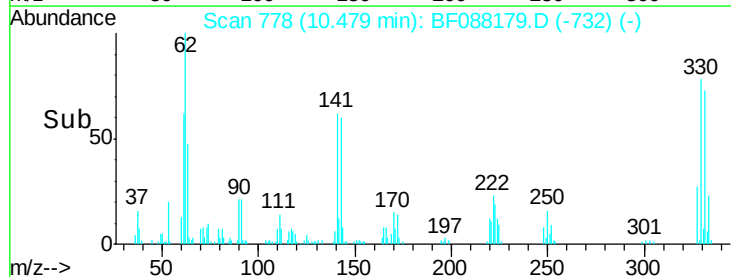
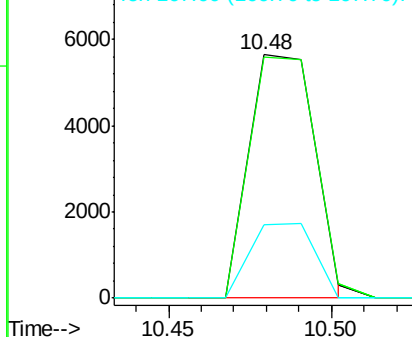


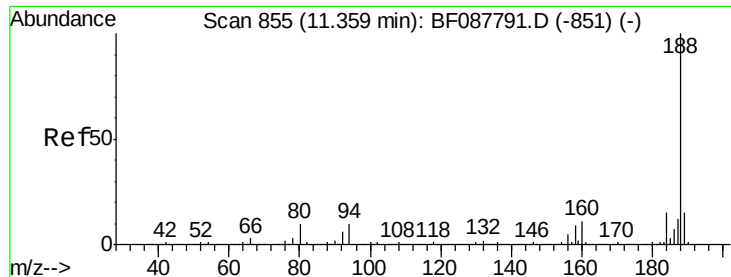
#57  
Fluorene  
Concen: Below Cal  
RT: 10.48 min Scan# 778  
Delta R.T. 0.23 min  
Lab File: BF088179.D  
Acq: 20 Jun 2016 18:56

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 7874  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 98.9  | 77.8  | 116.8 |
| 167       | 30.3  | 11.2  | 16.8# |



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E

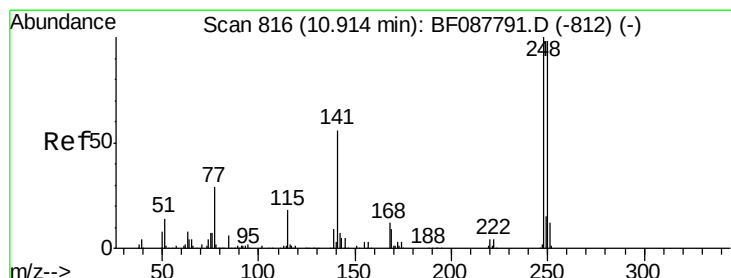
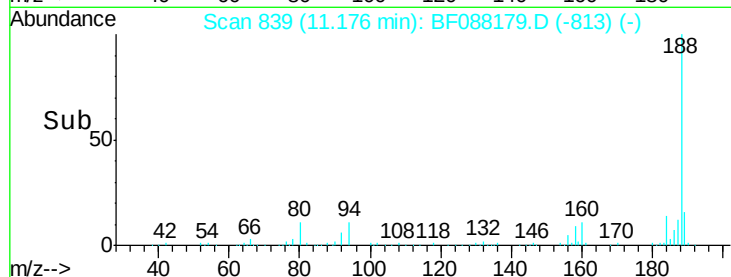
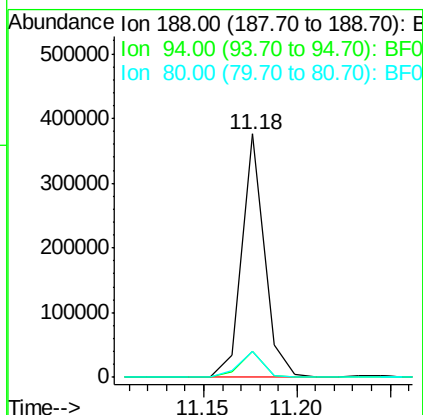
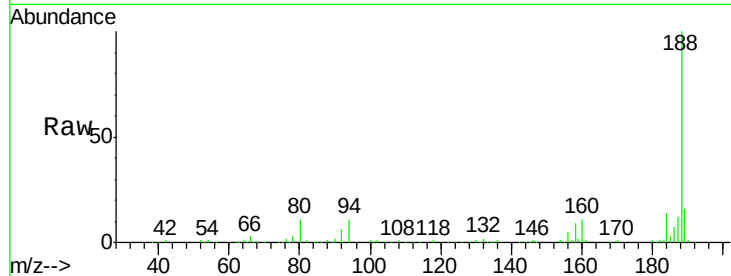




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.18 min Scan# 839  
Delta R.T. -0.00 min  
Lab File: BF088179.D  
Acq: 20 Jun 2016 18:56

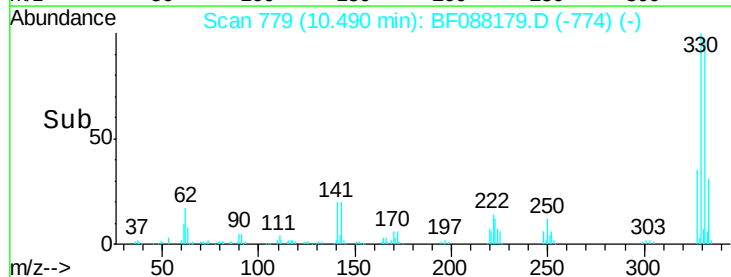
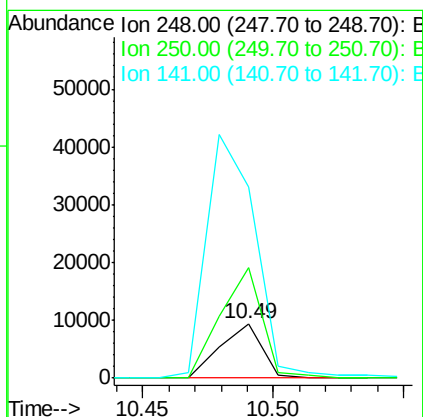
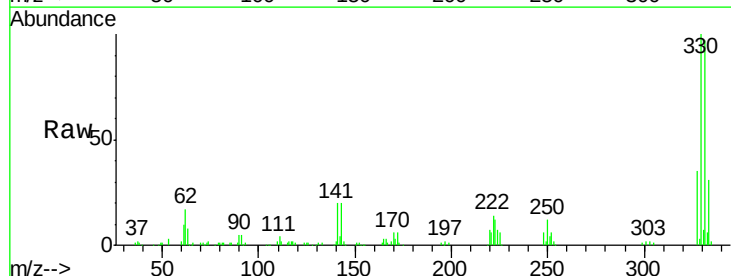
Instrument :  
BNA\_F  
ClientSampleId :  
PB91406BL

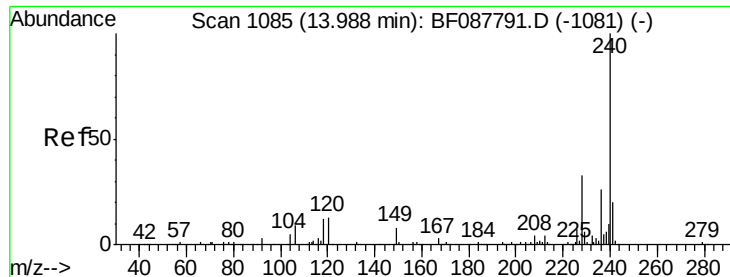
Tgt Ion:188 Resp: 320477  
Ion Ratio Lower Upper  
188 100  
94 10.5 9.0 13.6  
80 10.8 10.0 15.0



#66  
4-Bromophenyl-phenylether  
Concen: 3.03 ng  
RT: 10.49 min Scan# 779  
Delta R.T. -0.24 min  
Lab File: BF088179.D  
Acq: 20 Jun 2016 18:56

Tgt Ion:248 Resp: 10433  
Ion Ratio Lower Upper  
248 100  
250 202.2 77.1 115.7#  
141 350.3 50.6 76.0#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.00 min

Lab File: BF088179.D

Acq: 20 Jun 2016 18:56

Instrument :

BNA\_F

ClientSampleId :

PB91406BL

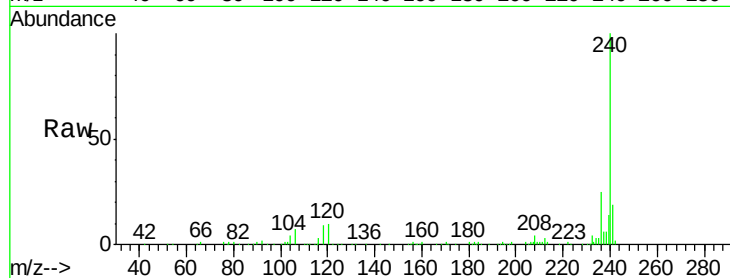
Tgt Ion:240 Resp: 265902

Ion Ratio Lower Upper

240 100

120 10.4 6.8 10.2#

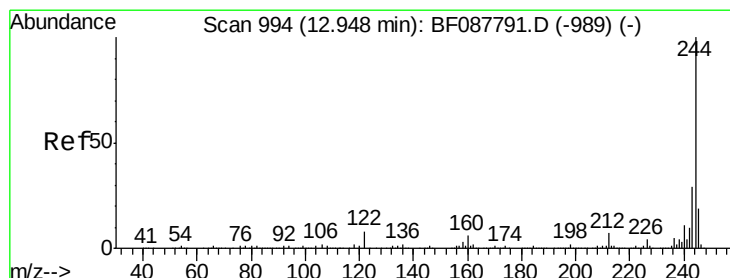
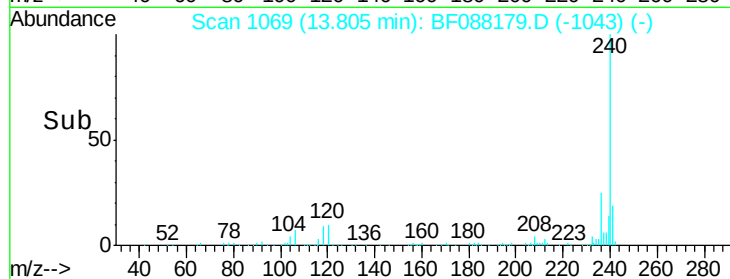
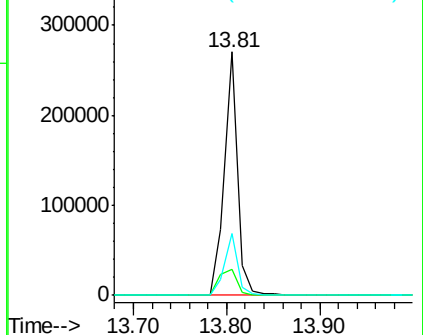
236 25.4 20.2 30.2



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: 75.37 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.00 min

Lab File: BF088179.D

Acq: 20 Jun 2016 18:56

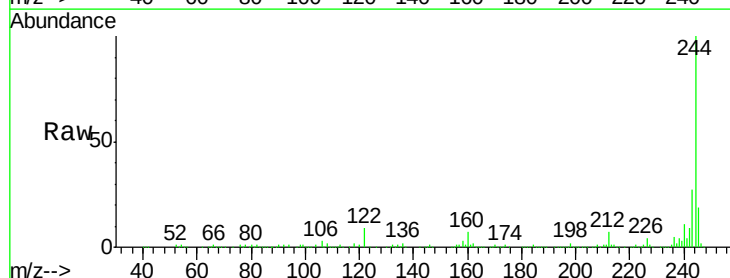
Tgt Ion:244 Resp: 880704

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

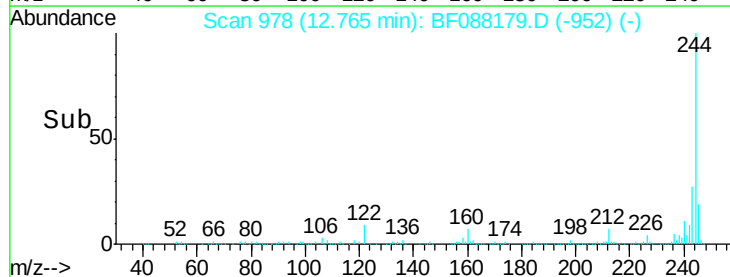
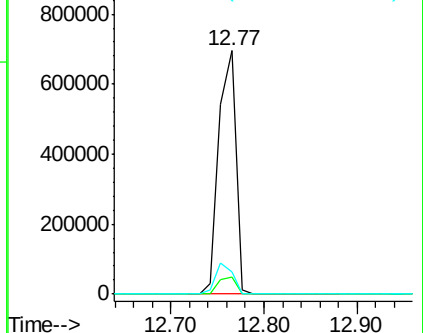
122 9.3 11.2 16.8#

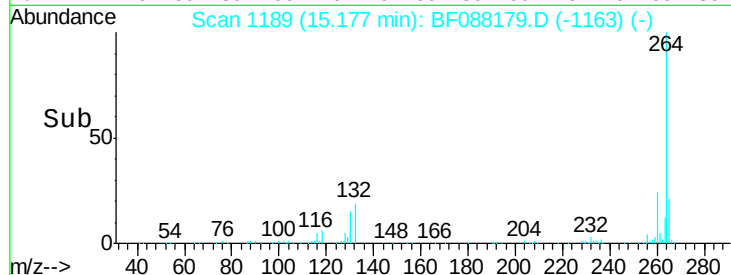
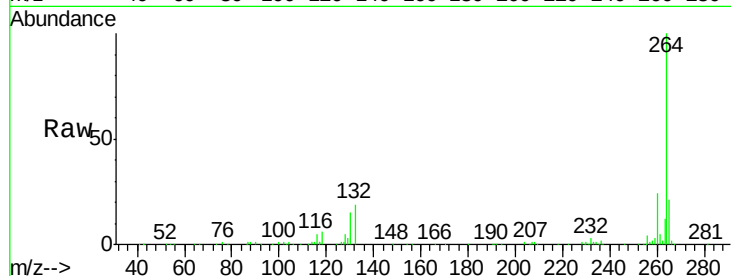
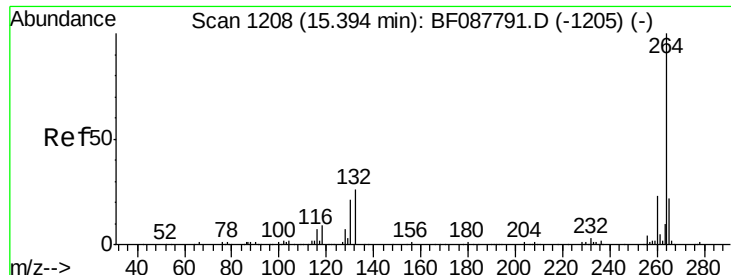


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.18 min Scan# 1189

Delta R.T. -0.00 min

Lab File: BF088179.D

Acq: 20 Jun 2016 18:56

Instrument :

BNA\_F

ClientSampleId :

PB91406BL

Tgt Ion: 264 Resp: 195342

Ion Ratio Lower Upper

264 100

260 23.6 19.2 28.8

265 20.9 16.9 25.3

