

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061516\  
 Data File : BF088055.D  
 Acq On : 16 Jun 2016 1:30  
 Operator : UM/SJ  
 Sample : PB91233BL  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91233BL

Quant Time: Jun 16 03:12:33 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 13 14:10:49 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.74  | 152  | 114737   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 8.03  | 136  | 437188   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.78  | 164  | 201517   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10      | 11.26 | 188  | 307485   | 20.00 | ng    | -0.06    |
| 75) Chrysene-d12          | 13.89 | 240  | 224520   | 20.00 | ng    | -0.07    |
| 86) Perylene-d12          | 15.29 | 264  | 226344   | 20.00 | ng    | -0.07    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 740345   | 110.31 | ng    | -0.03    |
| 7) Phenol-d6                | 6.39  | 99   | 876732   | 107.79 | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 7.31  | 82   | 584212   | 78.03  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 175936   | 82.68  | ng    | -0.06    |
| 44) 2-Fluorobiphenyl        | 9.11  | 172  | 872095   | 66.80  | ng    | -0.06    |
| 78) Terphenyl-d14           | 12.85 | 244  | 611765   | 62.00  | ng    | -0.06    |

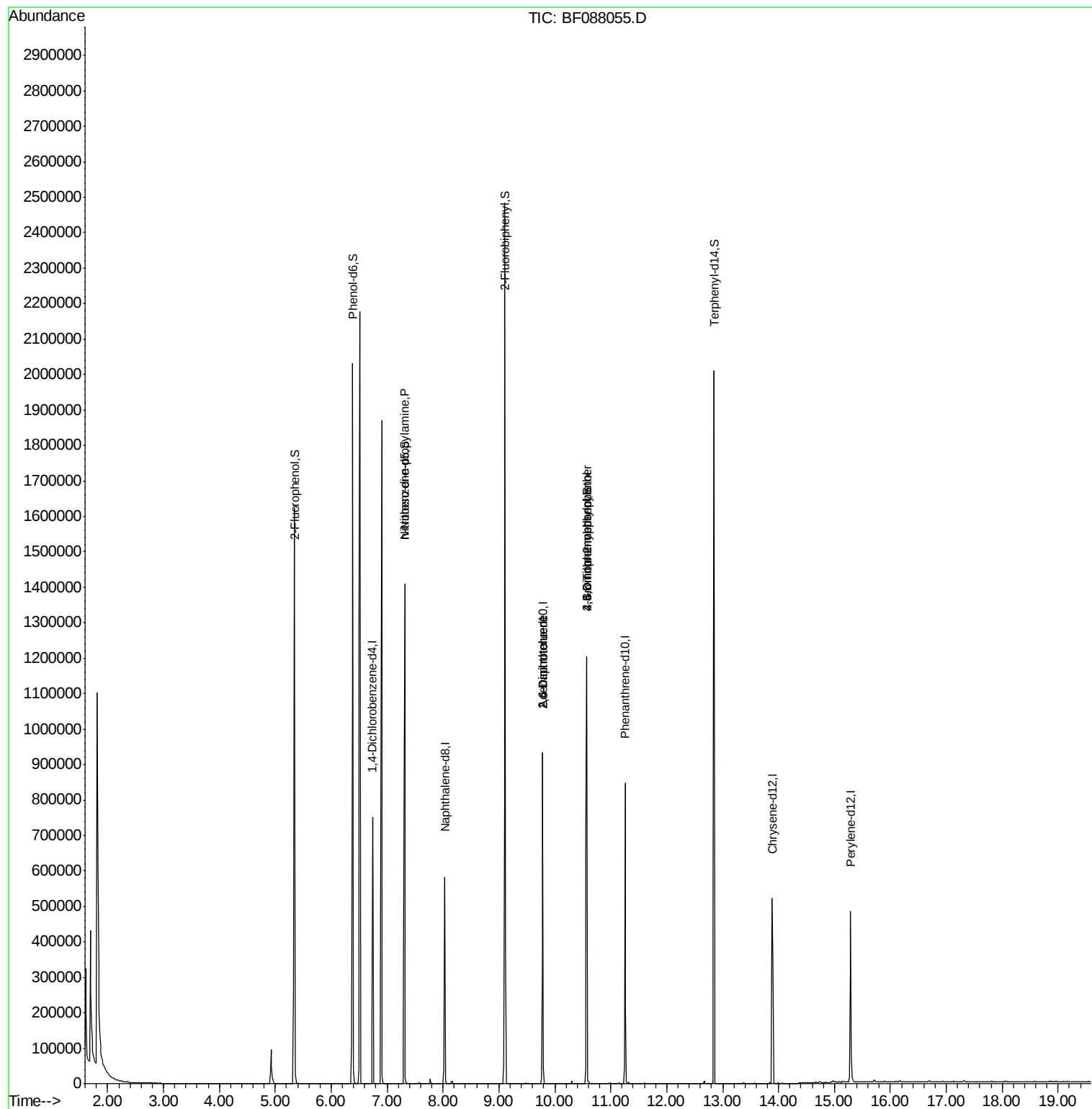
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 10) Phenol                     | 6.51  | 94   | 1348     | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.31  | 70   | 75097    | 14.43     | ng    | 68     |
| 45) 1,1'-Biphenyl              | 9.11  | 154  | 1658     | Below Cal | #     | 1      |
| 50) 2,6-Dinitrotoluene         | 9.78  | 165  | 25845    | 7.73      | ng    | 39     |
| 56) 2,4-Dinitrotoluene         | 9.78  | 165  | 25846    | 6.02      | ng    | 38     |
| 57) Fluorene                   | 10.57 | 166  | 9066     | Below Cal | #     | 90     |
| 64) 4,6-Dinitro-2-methylphenol | 10.57 | 198  | 265      | 2.29      | ng    | 4      |
| 66) 4-Bromophenyl-phenylether  | 10.57 | 248  | 11899    | 3.61      | ng    | 1      |

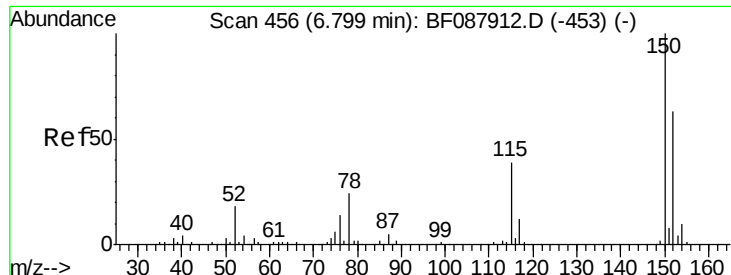
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 13 14:10:49 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 451

Delta R.T. -0.05 min

Lab File: BF088055.D

Acq: 16 Jun 2016 1:30

Instrument :

BNA\_F

ClientSampleId :

PB91233BL

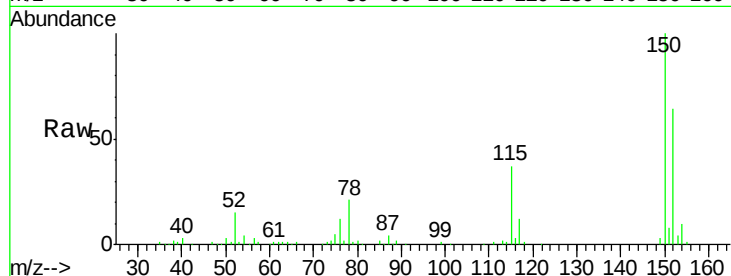
Tgt Ion:152 Resp: 114737

Ion Ratio Lower Upper

152 100

150 155.9 123.8 185.6

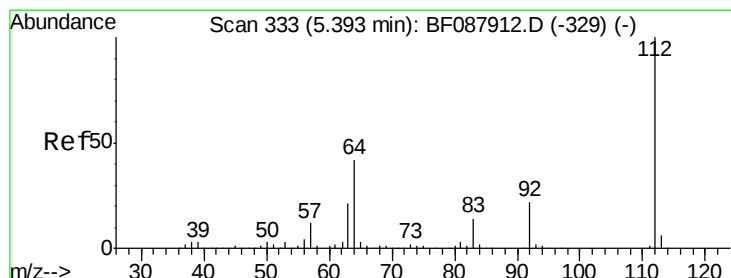
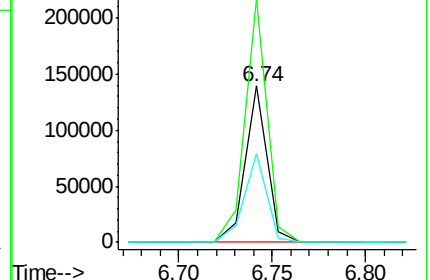
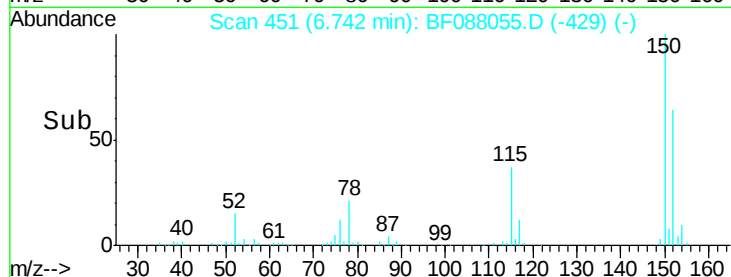
115 57.1 39.6 59.4



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: 110.31 ng

RT: 5.35 min Scan# 329

Delta R.T. -0.03 min

Lab File: BF088055.D

Acq: 16 Jun 2016 1:30

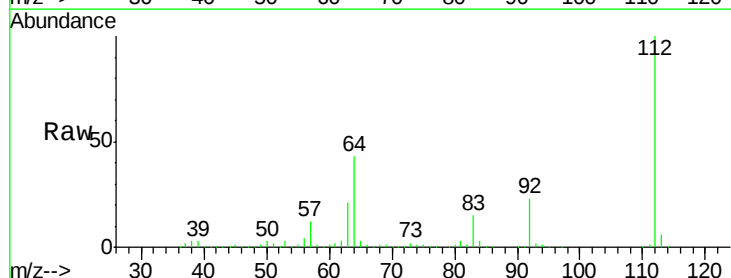
Tgt Ion:112 Resp: 740345

Ion Ratio Lower Upper

112 100

64 42.7 42.2 63.2

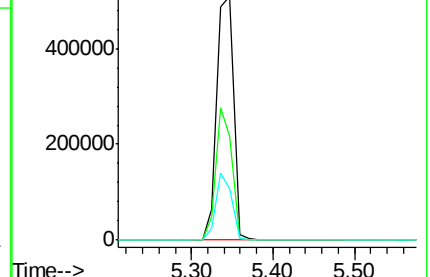
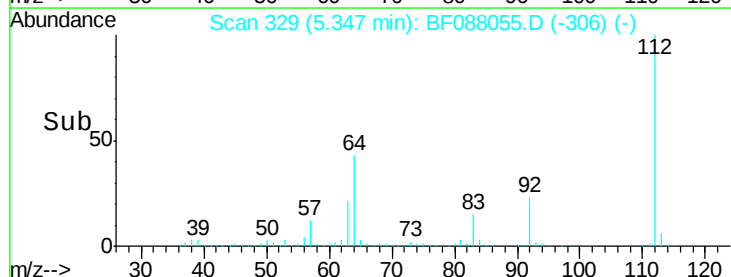
63 21.2 21.8 32.8#

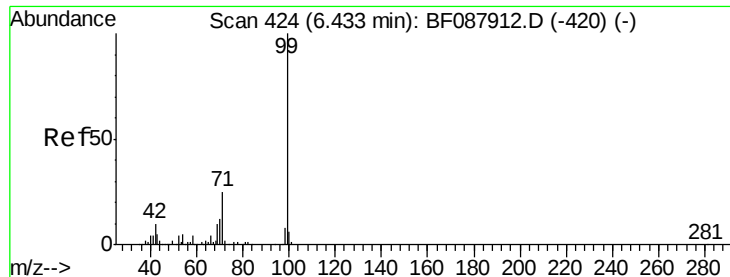


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 107.79 ng

RT: 6.39 min Scan# 420

Delta R.T. -0.05 min

Lab File: BF088055.D

Acq: 16 Jun 2016 1:30

Instrument :

BNA\_F

ClientSampleId :

PB91233BL

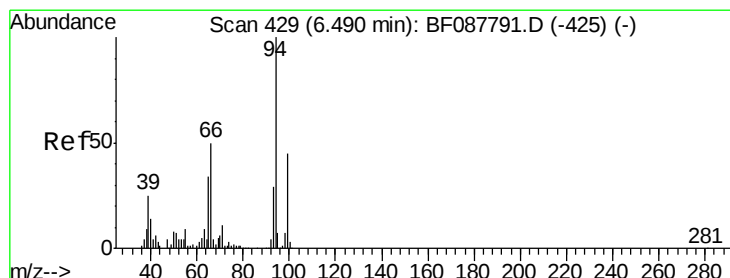
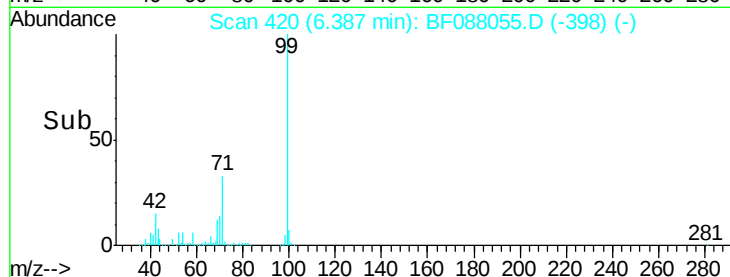
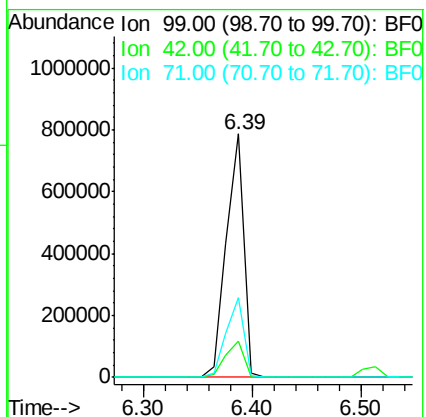
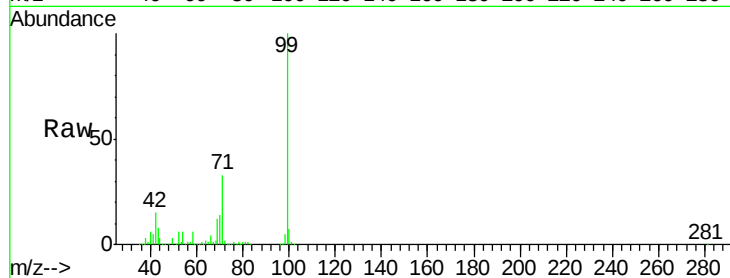
Tgt Ion: 99 Resp: 876732

Ion Ratio Lower Upper

99 100

42 15.1 12.2 18.2

71 32.6 23.4 35.0



#10

Phenol

Concen: Below Cal

RT: 6.51 min Scan# 431

Delta R.T. 0.07 min

Lab File: BF088055.D

Acq: 16 Jun 2016 1:30

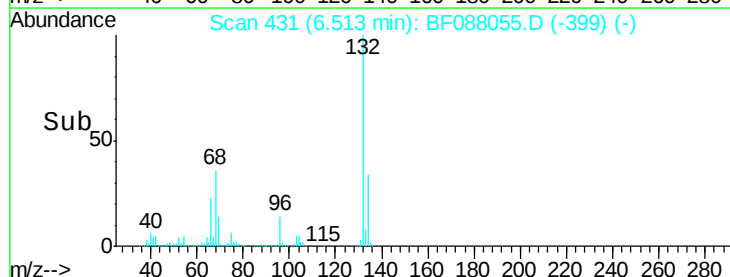
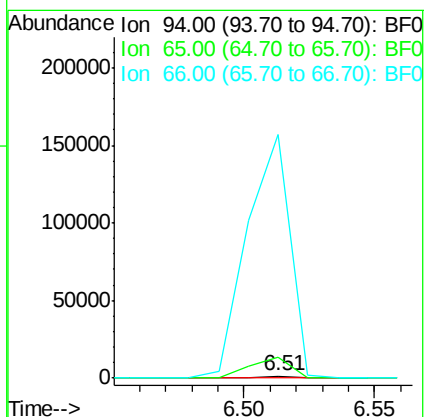
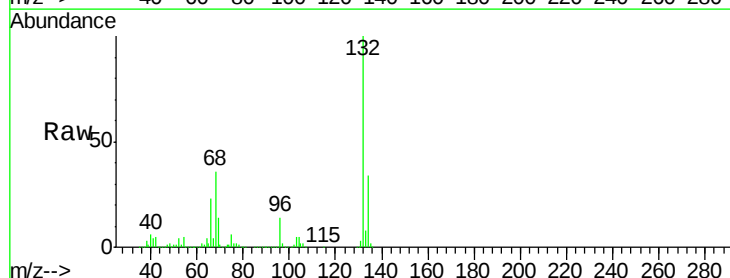
Tgt Ion: 94 Resp: 1348

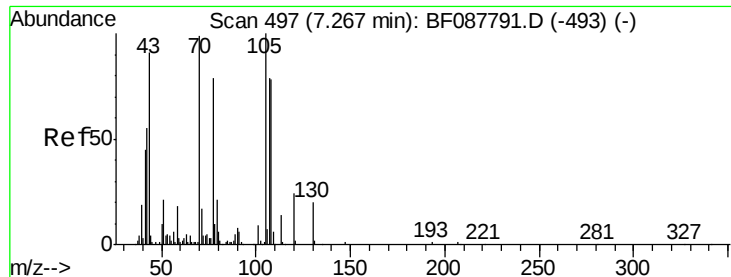
Ion Ratio Lower Upper

94 100

65 1019.5 5.9 45.9#

66 12221.8 14.0 54.0#

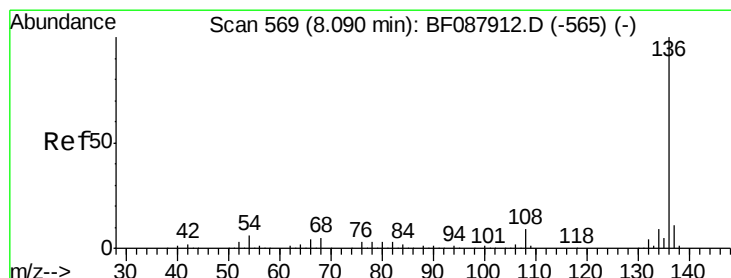
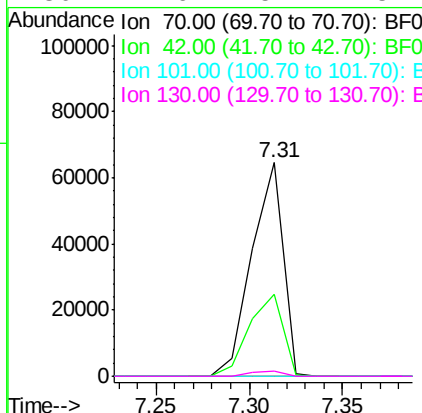
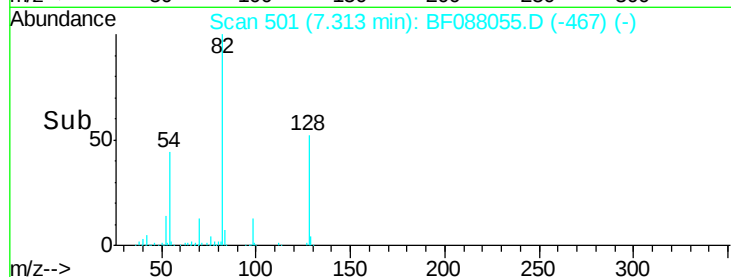
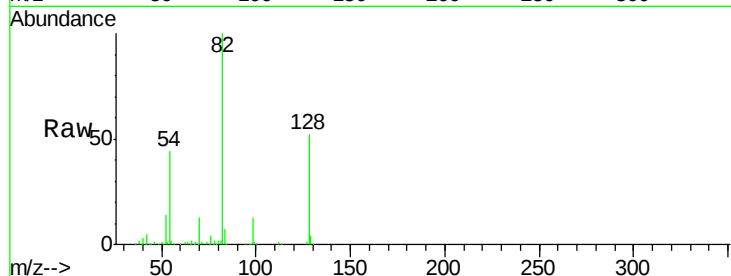




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.43 ng  
RT: 7.31 min Scan# 501  
Delta R.T. 0.09 min  
Lab File: BF088055.D  
Acq: 16 Jun 2016 1:30

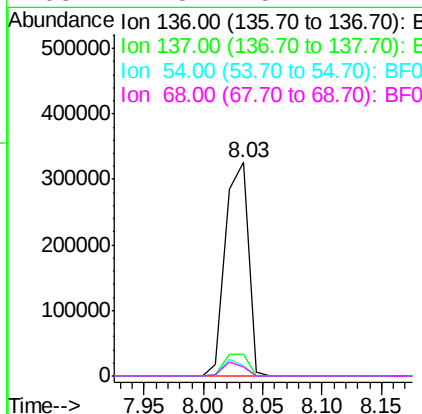
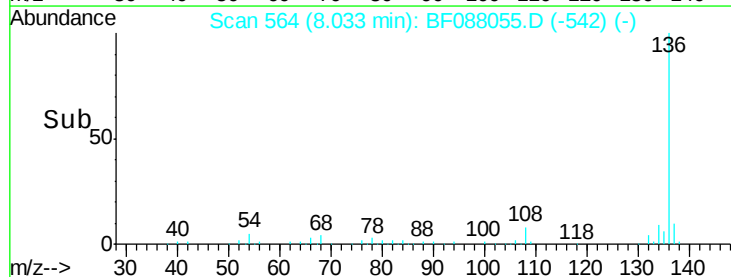
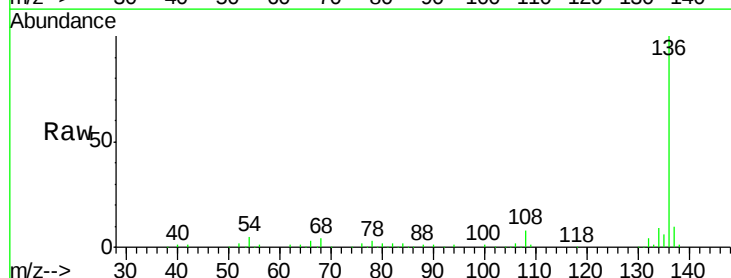
Instrument :  
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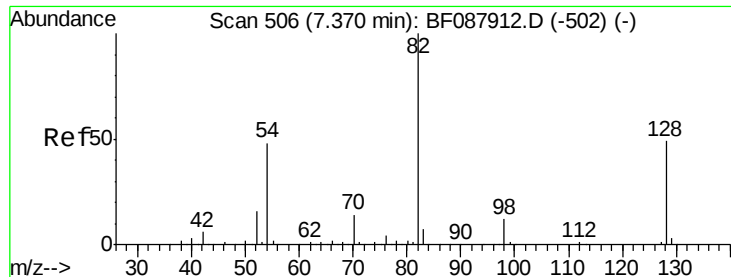
Tgt Ion: 70 Resp: 75097  
Ion Ratio Lower Upper  
70 100  
42 38.2 49.6 74.4#  
101 0.0 7.1 10.7#  
130 2.6 15.4 23.2#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.03 min Scan# 564  
Delta R.T. -0.05 min  
Lab File: BF088055.D  
Acq: 16 Jun 2016 1:30

Tgt Ion: 136 Resp: 437188  
Ion Ratio Lower Upper  
136 100  
137 10.3 9.1 13.7  
54 4.8 6.6 10.0#  
68 4.3 5.1 7.7#

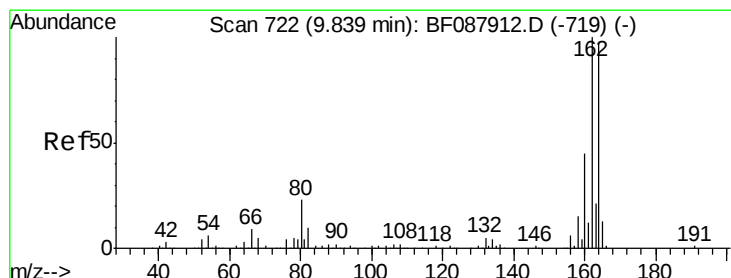
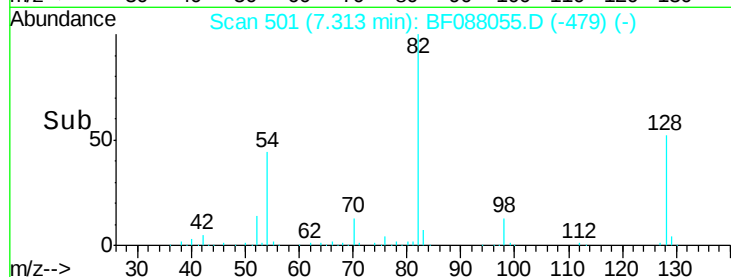
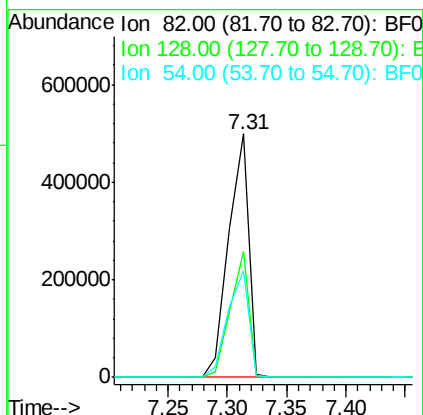
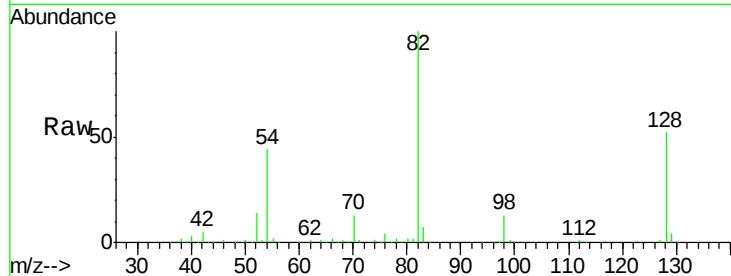




#23  
 Nitrobenzene-d5  
 Concen: 78.03 ng  
 RT: 7.31 min Scan# 501  
 Delta R.T. -0.05 min  
 Lab File: BF088055.D  
 Acq: 16 Jun 2016 1:30

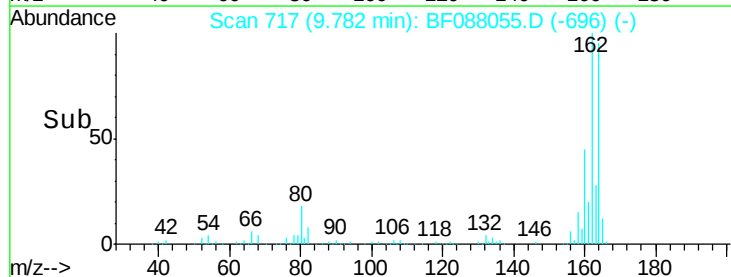
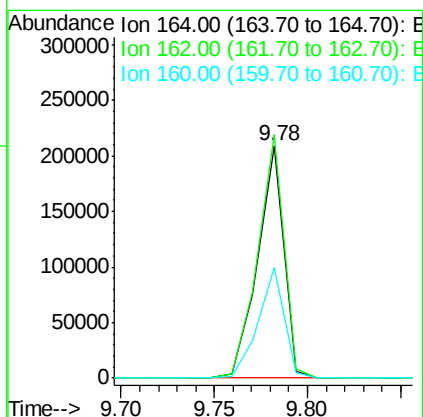
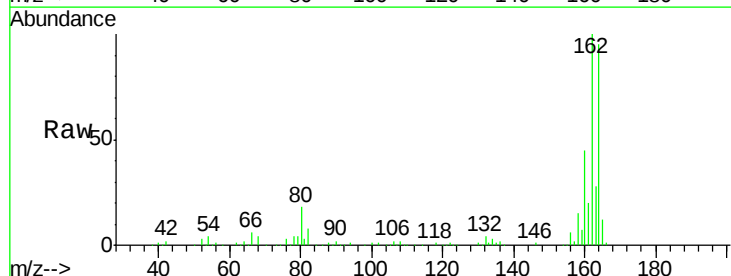
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91233BL

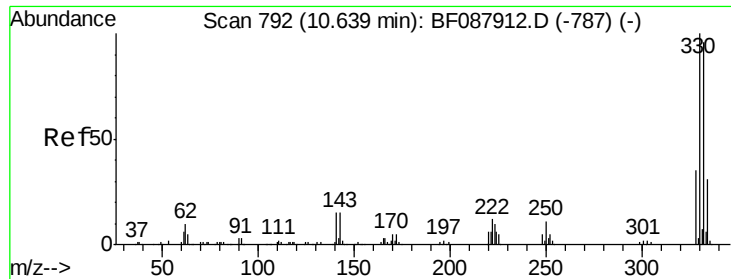
Tgt Ion: 82 Resp: 584212  
 Ion Ratio Lower Upper  
 82 100  
 128 51.9 35.9 53.9  
 54 44.1 40.9 61.3



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.78 min Scan# 717  
 Delta R.T. -0.06 min  
 Lab File: BF088055.D  
 Acq: 16 Jun 2016 1:30

Tgt Ion: 164 Resp: 201517  
 Ion Ratio Lower Upper  
 164 100  
 162 104.8 85.4 128.2  
 160 47.6 39.5 59.3

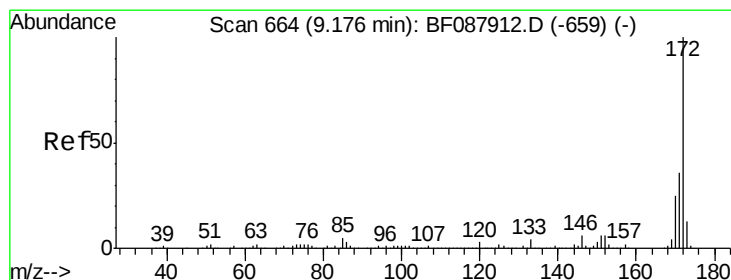
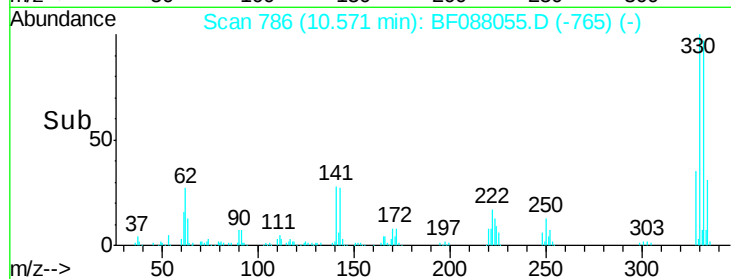
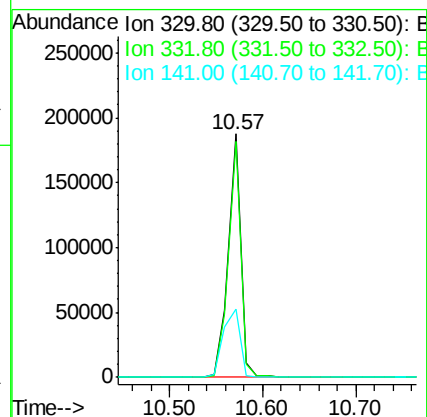
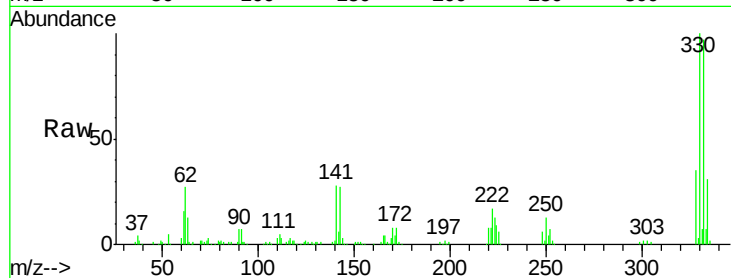




#41  
 2,4,6-Tribromophenol  
 Concen: 82.68 ng  
 RT: 10.57 min Scan# 786  
 Delta R.T. -0.06 min  
 Lab File: BF088055.D  
 Acq: 16 Jun 2016 1:30

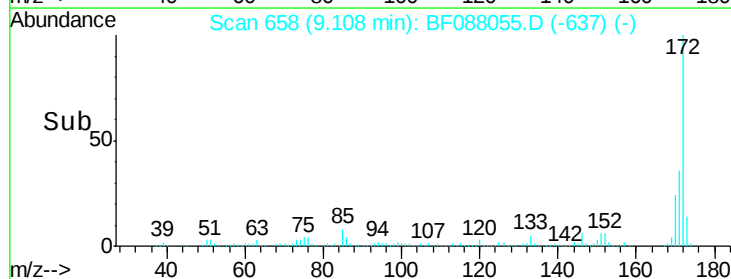
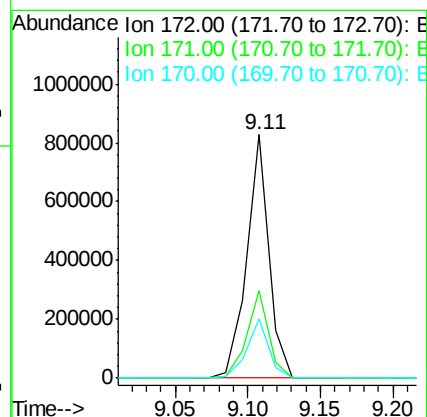
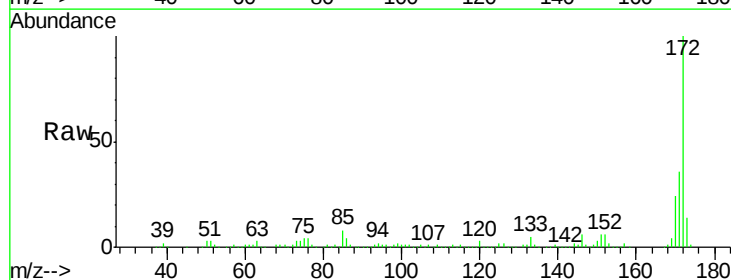
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91233BL

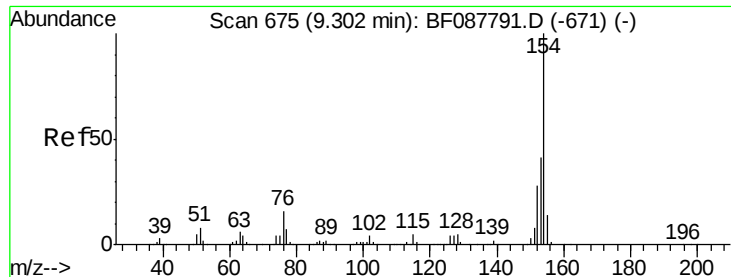
Tgt Ion:330 Resp: 175936  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 0.0 0.0#  
 141 37.4 0.0 0.0#



#44  
 2-Fluorobiphenyl  
 Concen: 66.80 ng  
 RT: 9.11 min Scan# 658  
 Delta R.T. -0.06 min  
 Lab File: BF088055.D  
 Acq: 16 Jun 2016 1:30

Tgt Ion:172 Resp: 872095  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 28.6 43.0  
 170 24.2 19.2 28.8





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.11 min Scan# 658

Delta R.T. -0.16 min

Lab File: BF088055.D

Acq: 16 Jun 2016 1:30

Instrument :

BNA\_F

ClientSampleId :

PB91233BL

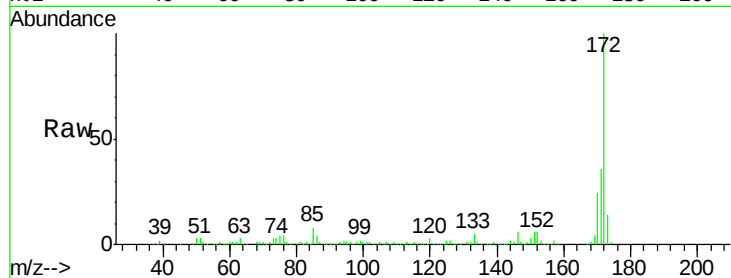
Tgt Ion:154 Resp: 1658

Ion Ratio Lower Upper

154 100

153 882.8 20.6 60.6#

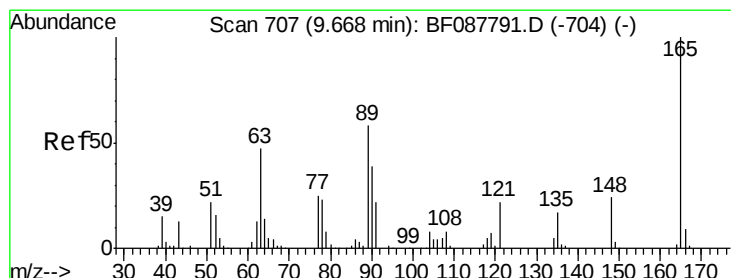
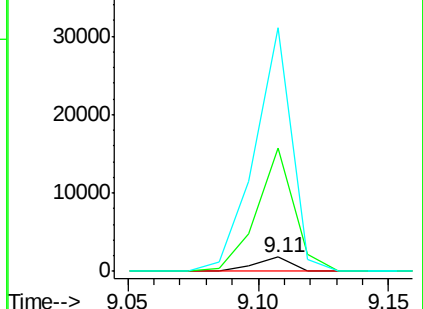
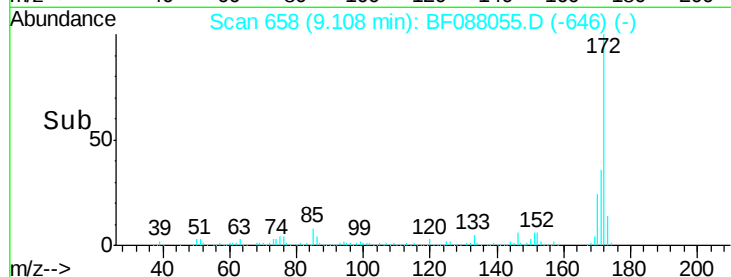
76 1740.8 0.0 35.1#



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: 7.73 ng

RT: 9.78 min Scan# 717

Delta R.T. 0.16 min

Lab File: BF088055.D

Acq: 16 Jun 2016 1:30

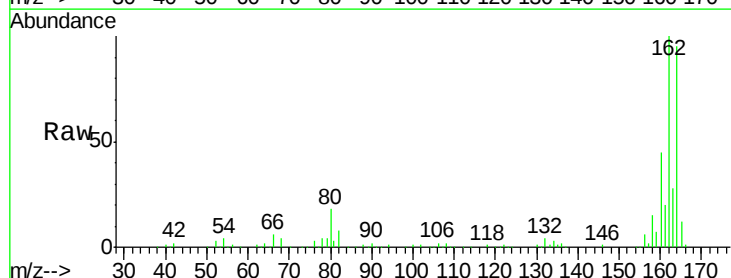
Tgt Ion:165 Resp: 25845

Ion Ratio Lower Upper

165 100

63 1.2 28.1 42.1#

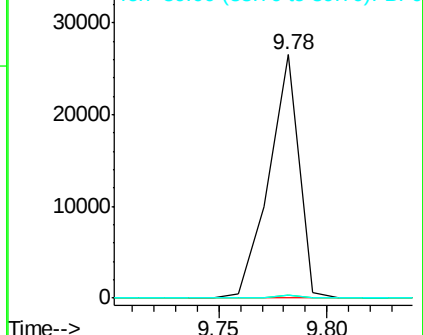
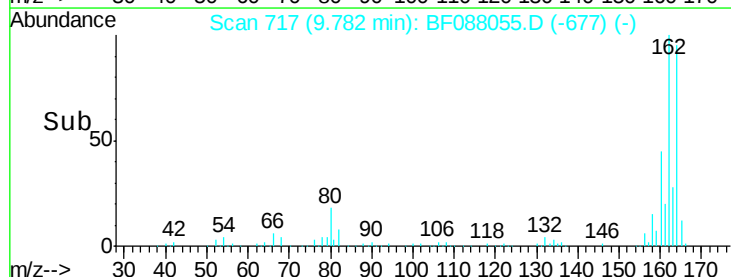
89 1.4 32.2 48.2#

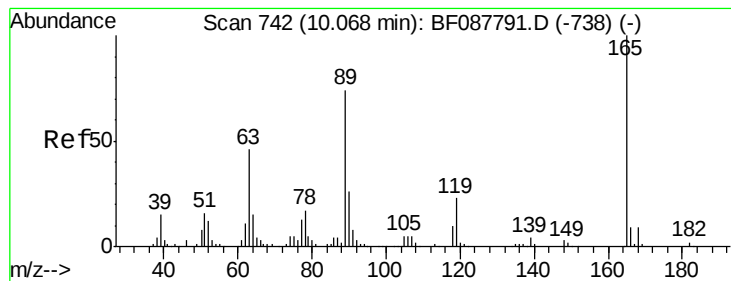


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#56

2,4-Dinitrotoluene

Concen: 6.02 ng

RT: 9.78 min Scan# 717

Delta R.T. -0.25 min

Lab File: BF088055.D

Acq: 16 Jun 2016 1:30

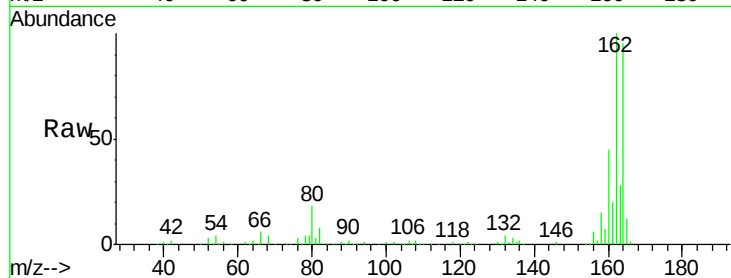
Instrument :

BNA\_F

ClientSampleId :

PB91233BL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 25846 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 1.2   | 22.0  | 33.0# |
| 89        | 1.4   | 41.1  | 61.7# |
| 182       | 0.0   | 2.0   | 3.0#  |

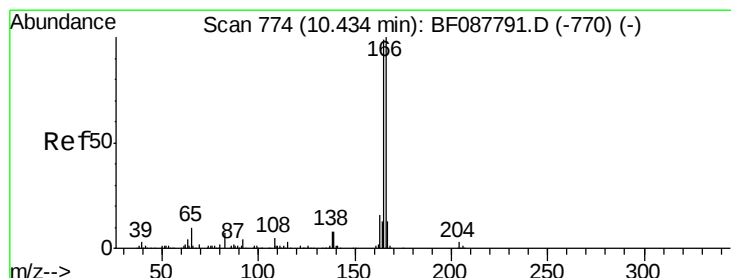
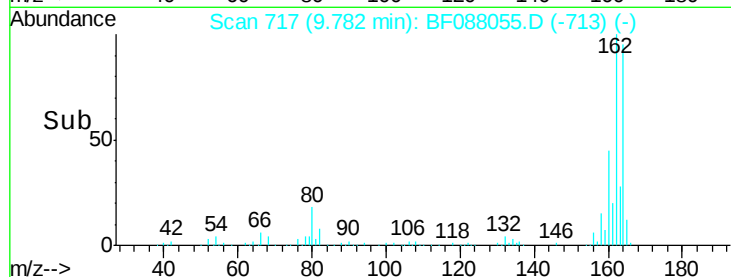
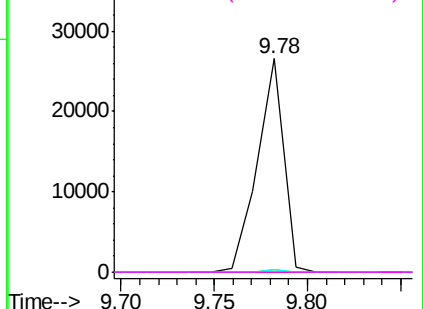


Abundance Ion 165.00 (164.70 to 165.70): E

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

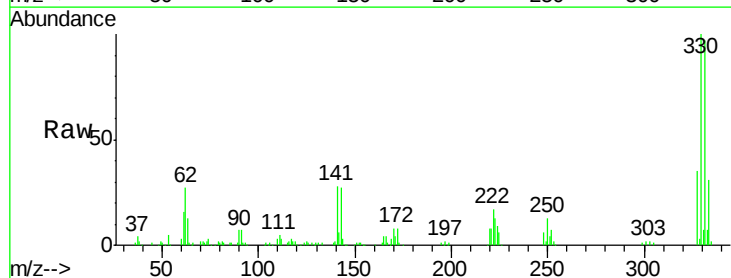
RT: 10.57 min Scan# 786

Delta R.T. 0.18 min

Lab File: BF088055.D

Acq: 16 Jun 2016 1:30

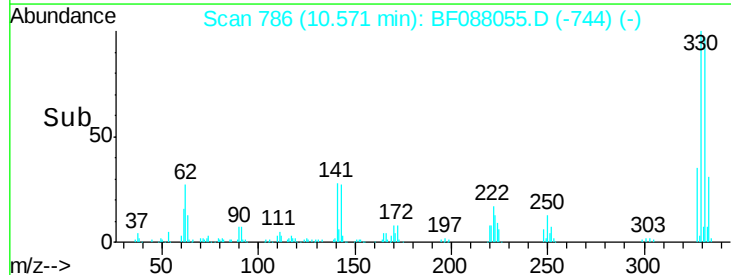
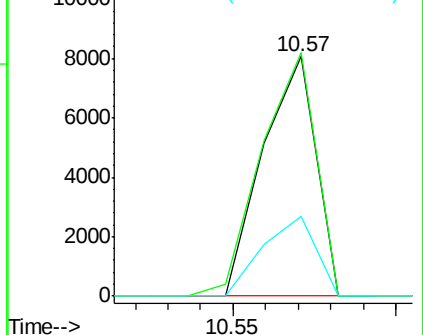
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 9066  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 101.7 | 77.8  | 116.8 |
| 167       | 33.2  | 11.2  | 16.8# |

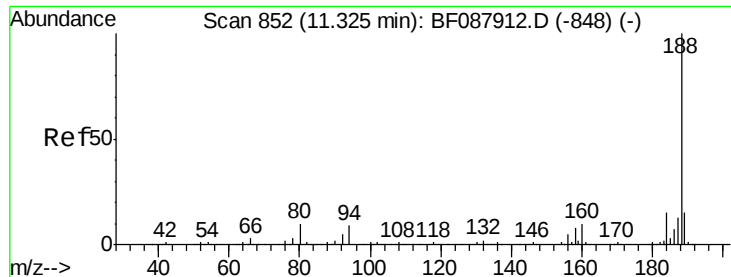


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

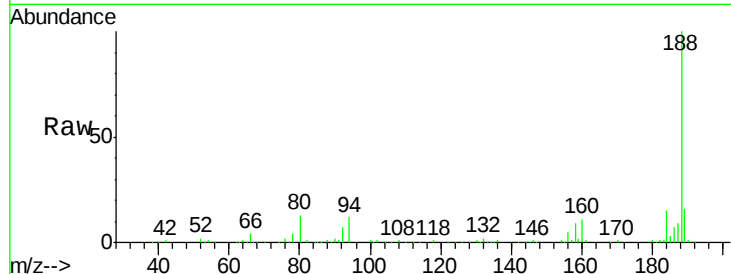




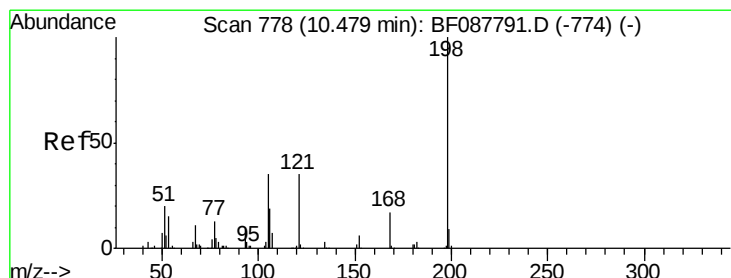
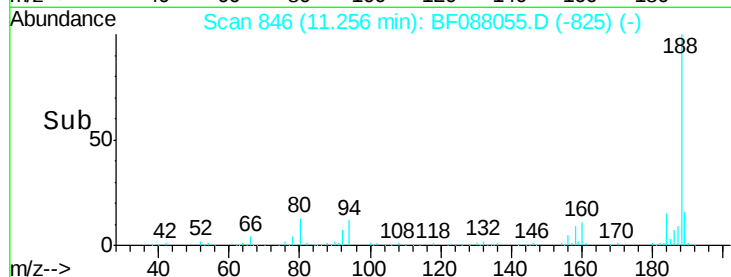
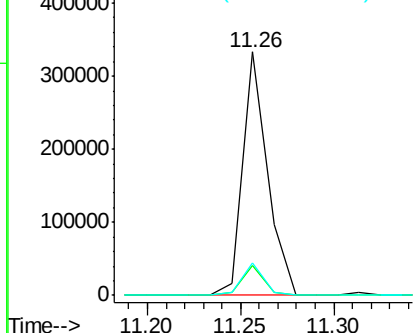
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.26 min Scan# 846  
Delta R.T. -0.06 min  
Lab File: BF088055.D  
Acq: 16 Jun 2016 1:30

Instrument :  
BNA\_F  
ClientSampleId :  
PB91233BL

Tgt Ion:188 Resp: 307485  
Ion Ratio Lower Upper  
188 100  
94 12.2 9.0 13.6  
80 13.1 10.0 15.0

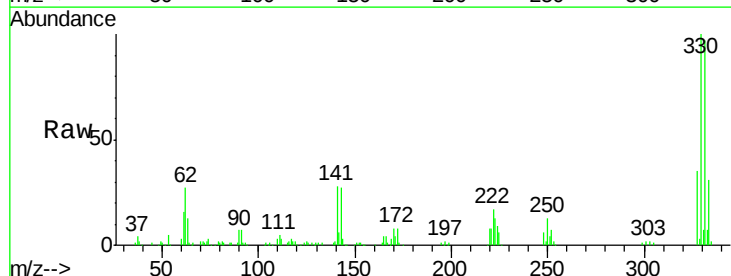


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

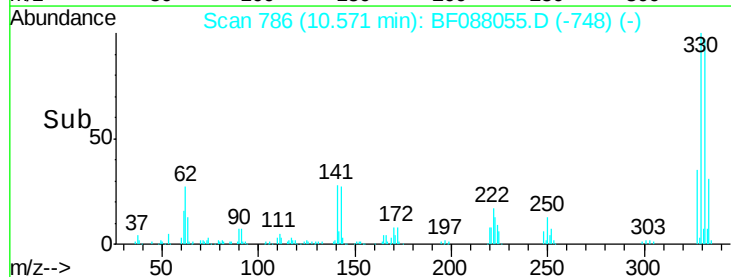
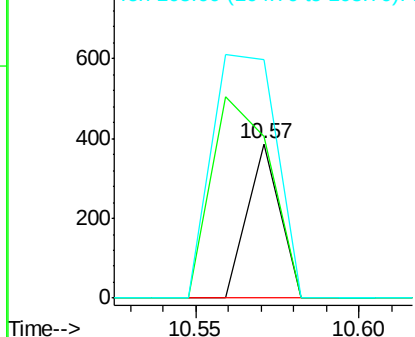


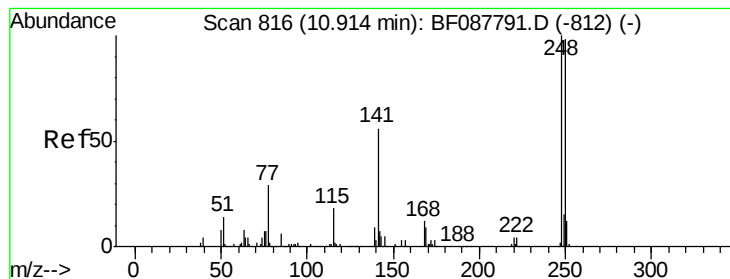
#64  
4,6-Dinitro-2-methylphenol  
Concen: 2.29 ng  
RT: 10.57 min Scan# 786  
Delta R.T. 0.14 min  
Lab File: BF088055.D  
Acq: 16 Jun 2016 1:30

Tgt Ion:198 Resp: 265  
Ion Ratio Lower Upper  
198 100  
51 104.9 39.6 79.6#  
105 154.3 36.6 76.6#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 105.00 (104.70 to 105.70): E





#66

4-Bromophenyl-phenylether

Concen: 3.61 ng

RT: 10.57 min Scan# 786

Delta R.T. -0.30 min

Lab File: BF088055.D

Acq: 16 Jun 2016 1:30

Instrument :

BNA\_F

ClientSampleId :

PB91233BL

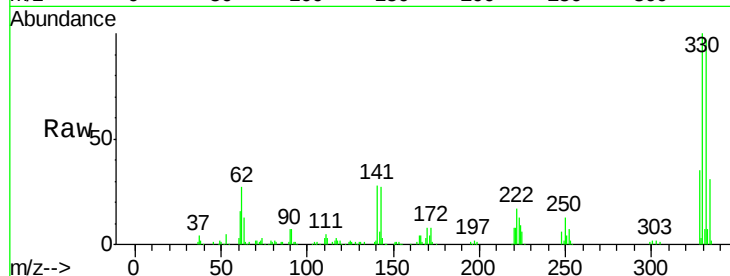
Tgt Ion:248 Resp: 11899

Ion Ratio Lower Upper

248 100

250 195.9 77.1 115.7#

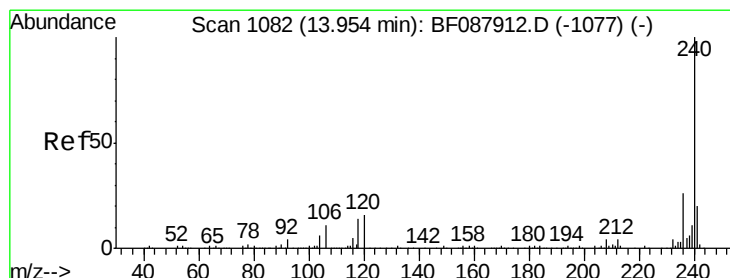
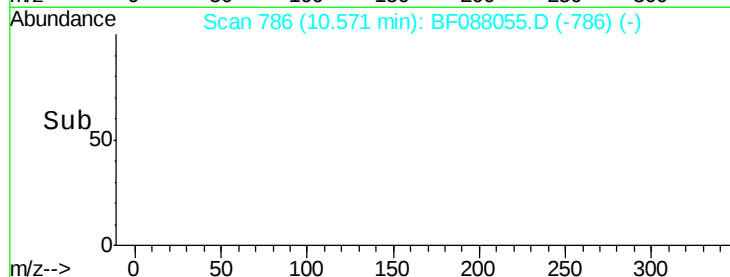
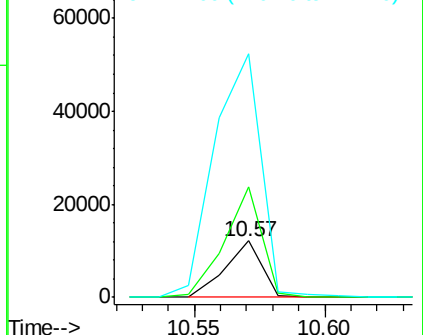
141 430.9 50.6 76.0#



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# 1076

Delta R.T. -0.07 min

Lab File: BF088055.D

Acq: 16 Jun 2016 1:30

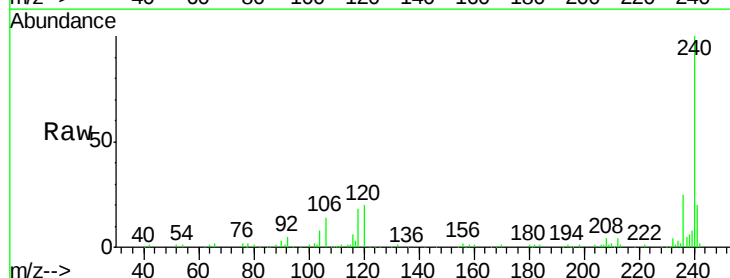
Tgt Ion:240 Resp: 224520

Ion Ratio Lower Upper

240 100

120 20.5 6.8 10.2#

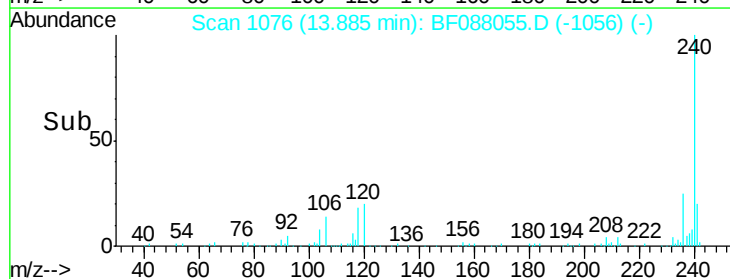
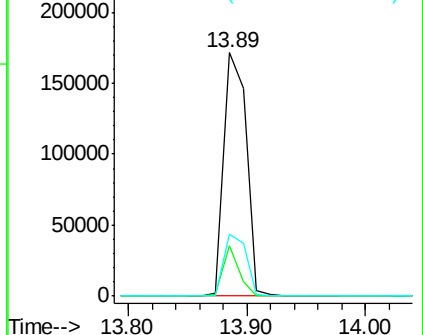
236 25.4 20.2 30.2

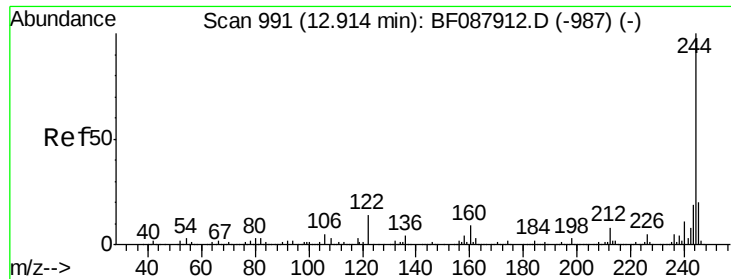


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

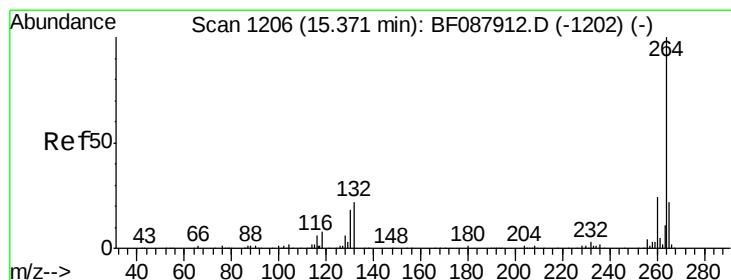
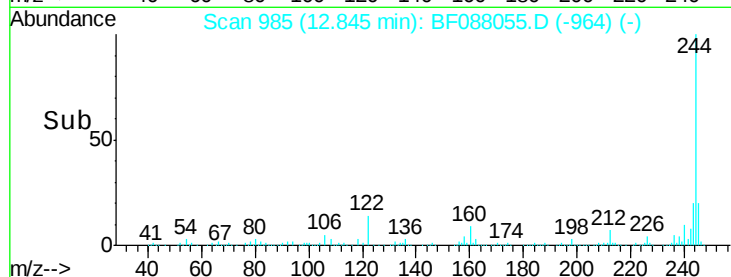
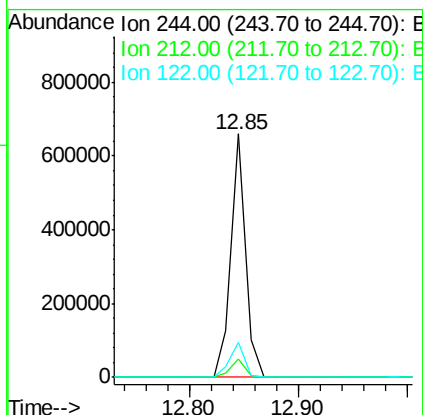
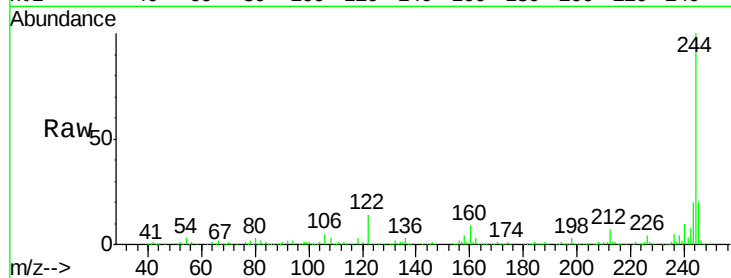




#78  
 Terphenyl-d14  
 Concen: 62.00 ng  
 RT: 12.85 min Scan# 985  
 Delta R.T. -0.06 min  
 Lab File: BF088055.D  
 Acq: 16 Jun 2016 1:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91233BL

Tgt Ion:244 Resp: 611765  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 6.0 9.0  
 122 14.2 11.2 16.8



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.29 min Scan# 1199  
 Delta R.T. -0.07 min  
 Lab File: BF088055.D  
 Acq: 16 Jun 2016 1:30

Tgt Ion:264 Resp: 226344  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 19.2 28.8  
 265 21.6 16.9 25.3

