

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121316\  
 Data File : BF091547.D  
 Acq On : 13 Dec 2016 12:09  
 Operator : UM/SJ  
 Sample : PB95236BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB95236BL

Quant Time: Dec 14 00:15:02 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF120916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 09 19:00:21 2016  
 Response via : Initial Calibration

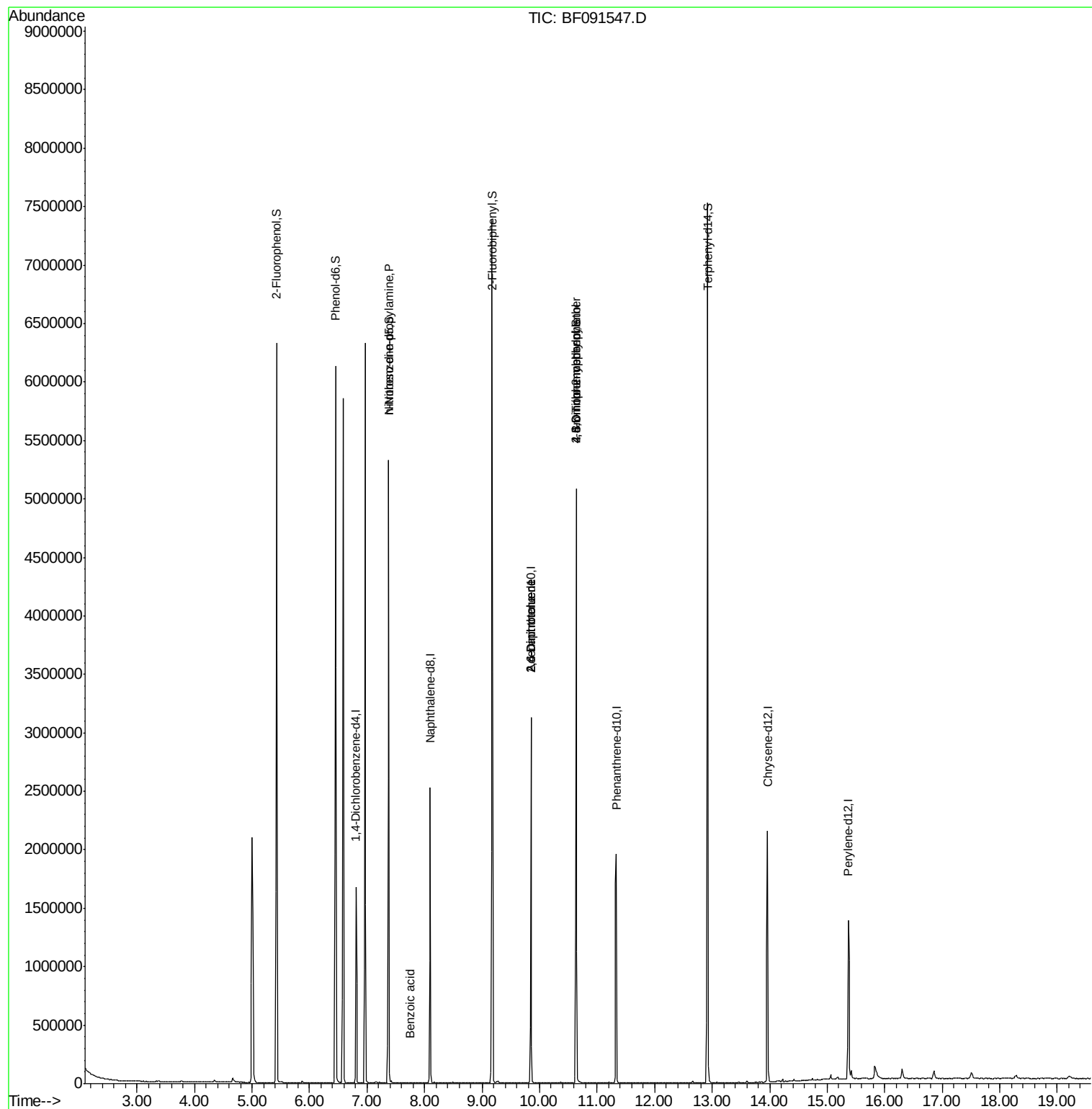
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.81  | 152  | 294283   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.10  | 136  | 1268748  | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.85  | 164  | 638975   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.33 | 188  | 1027221  | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.96 | 240  | 875761   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.37 | 264  | 711546   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 2342330  | 134.10    | ng    | 0.01     |
| 7) Phenol-d6                   | 6.45  | 99   | 2885111  | 132.49    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.38  | 82   | 2002840  | 88.11     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 624924   | 117.75    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.17  | 172  | 3012319  | 81.46     | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.92 | 244  | 2918249  | 75.61     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70   | 276780   | 20.33     | ng    | # 64     |
| 20) 3+4-Methylphenols          | 7.24  | 107  | 546      | Below Cal | #     | 65       |
| 32) Benzoic acid               | 7.76  | 122  | 415      | 4.92      | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 82510    | 9.29      | ng    | # 17     |
| 56) 2,4-Dinitrotoluene         | 9.85  | 165  | 82513    | 7.41      | ng    | # 34     |
| 57) Fluorene                   | 10.40 | 166  | 1162     | Below Cal | #     | 64       |
| 64) 4,6-Dinitro-2-methylphenol | 10.64 | 198  | 1421     | 3.16      | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 38333    | 3.64      | ng    | # 1      |

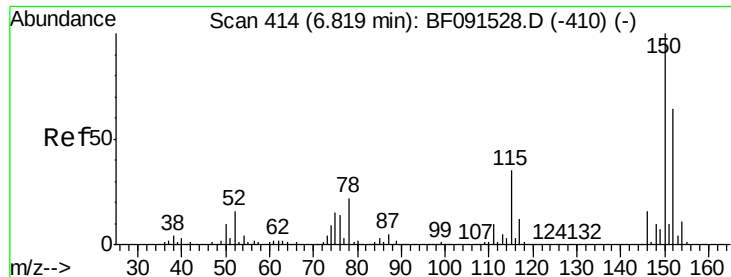
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.81 min Scan# 413

Delta R.T. -0.01 min

Lab File: BF091547.D

Acq: 13 Dec 2016 12:09

Instrument :

BNA\_F

ClientSampleId :

PB95236BL

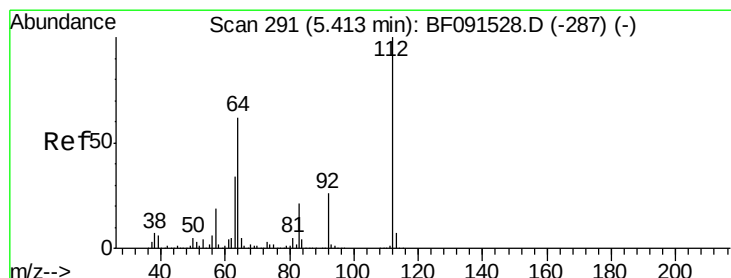
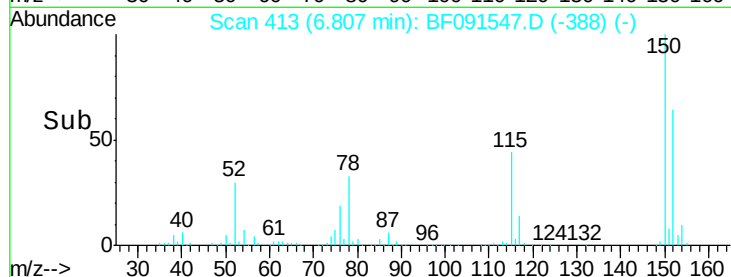
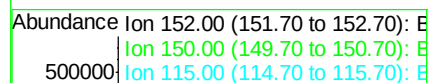
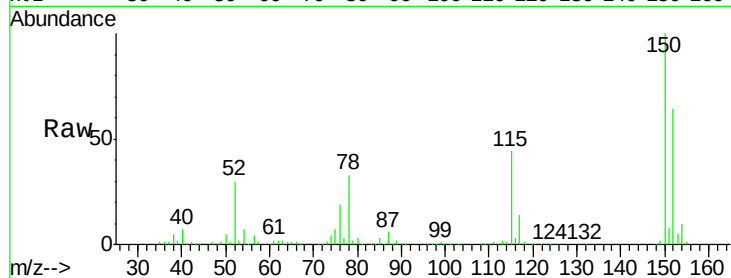
Tgt Ion:152 Resp: 294283

Ion Ratio Lower Upper

152 100

150 157.2 122.5 183.7

115 69.1 51.8 77.8



#5

2-Fluorophenol

Concen: 134.10 ng

RT: 5.42 min Scan# 292

Delta R.T. 0.01 min

Lab File: BF091547.D

Acq: 13 Dec 2016 12:09

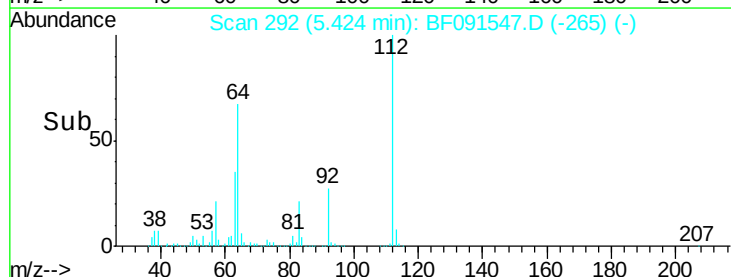
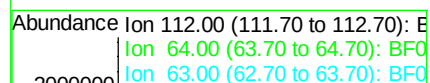
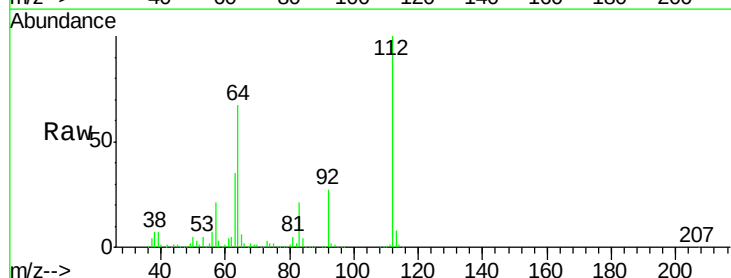
Tgt Ion:112 Resp: 2342330

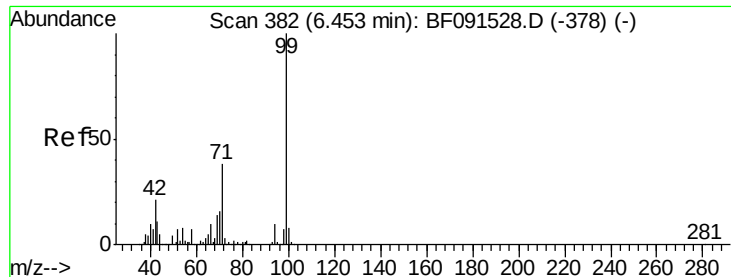
Ion Ratio Lower Upper

112 100

64 66.6 61.5 92.3

63 35.1 33.3 49.9





#7

Phenol-d6

Concen: 132.49 ng

RT: 6.45 min Scan# 382

Delta R.T. -0.00 min

Lab File: BF091547.D

Acq: 13 Dec 2016 12:09

Instrument :

BNA\_F

ClientSampleId :

PB95236BL

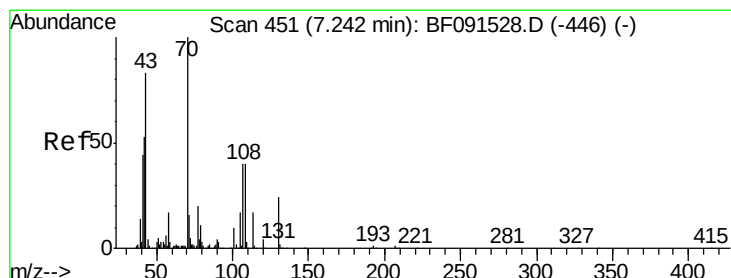
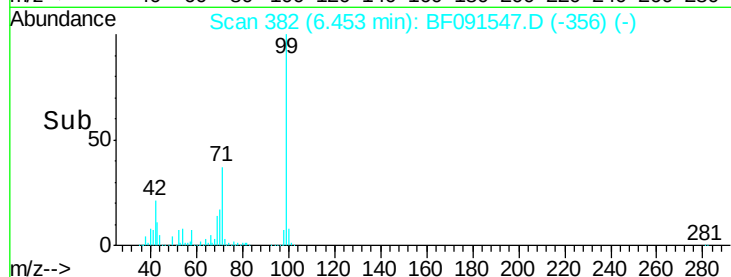
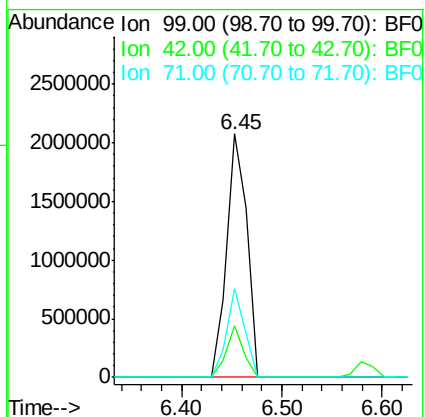
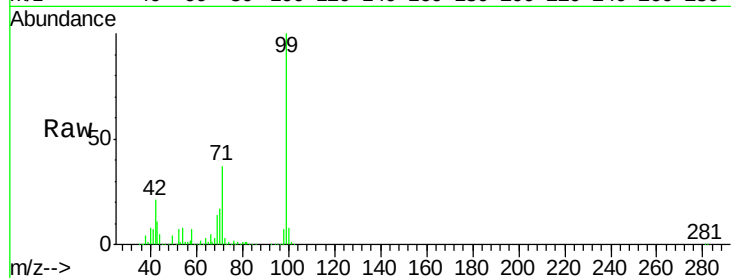
Tgt Ion: 99 Resp: 2885111

Ion Ratio Lower Upper

99 100

42 21.1 20.6 31.0

71 36.6 29.9 44.9



#19

n-Nitroso-di-n-propylamine

Concen: 20.33 ng

RT: 7.38 min Scan# 463

Delta R.T. 0.14 min

Lab File: BF091547.D

Acq: 13 Dec 2016 12:09

Tgt Ion: 70 Resp: 276780

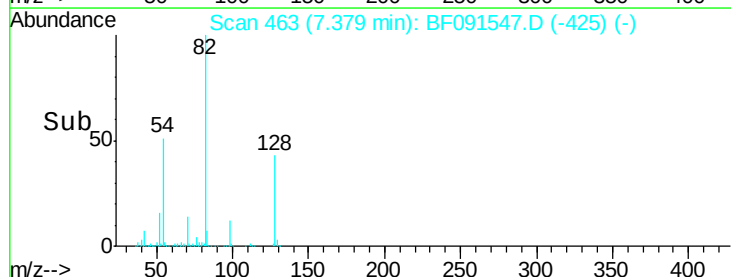
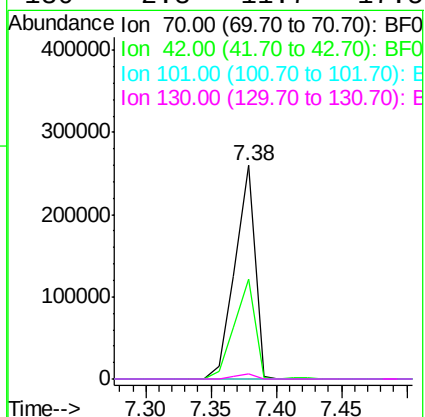
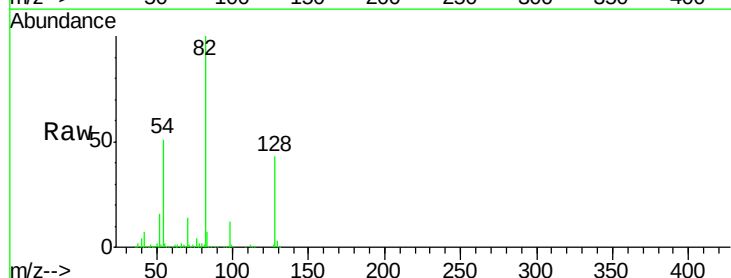
Ion Ratio Lower Upper

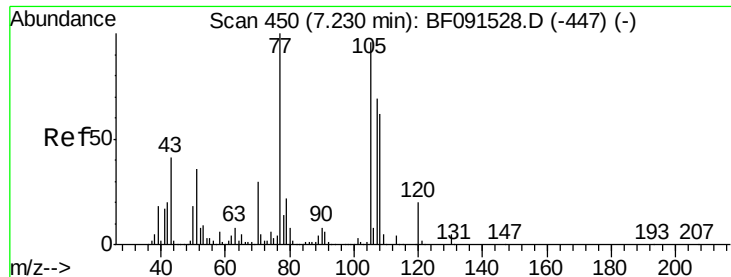
70 100

42 46.6 64.8 97.2#

101 0.0 6.2 9.4#

130 2.3 11.7 17.5#





#20

3+4-Methylphenols

Concen: Below Cal

RT: 7.24 min Scan# 451

Delta R.T. 0.01 min

Lab File: BF091547.D

Acq: 13 Dec 2016 12:09

Instrument :

BNA\_F

ClientSampleId :

PB95236BL

Tgt Ion:107 Resp: 546

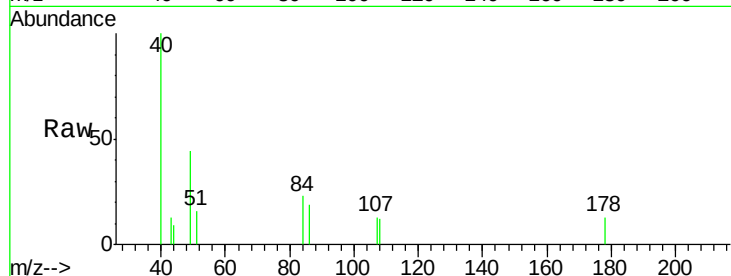
Ion Ratio Lower Upper

107 100

108 88.7 64.6 104.6

77 0.0 30.9 70.9#

79 0.0 9.3 49.3#

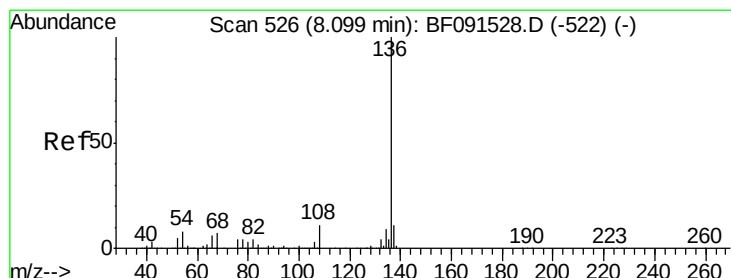
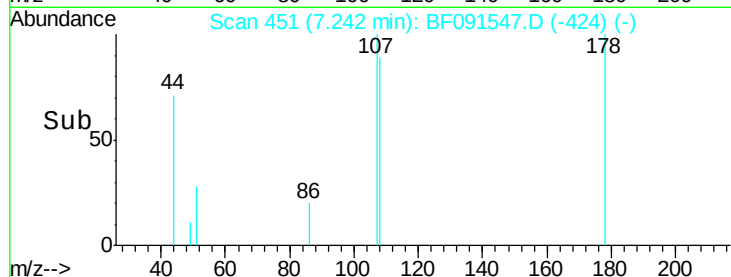
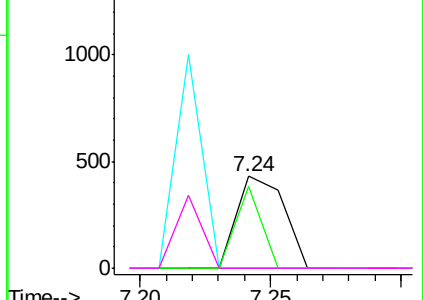


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 526

Delta R.T. -0.00 min

Lab File: BF091547.D

Acq: 13 Dec 2016 12:09

Tgt Ion:136 Resp: 1268748

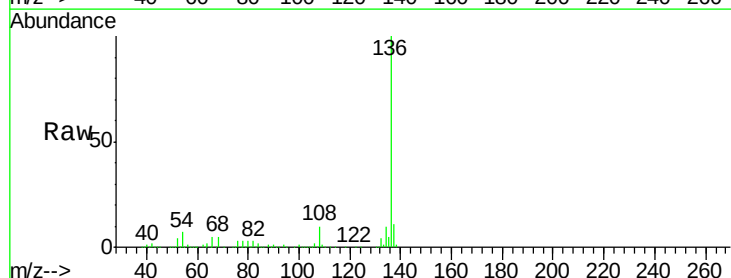
Ion Ratio Lower Upper

136 100

137 10.8 9.1 13.7

54 6.7 9.1 13.7#

68 5.5 5.9 8.9#

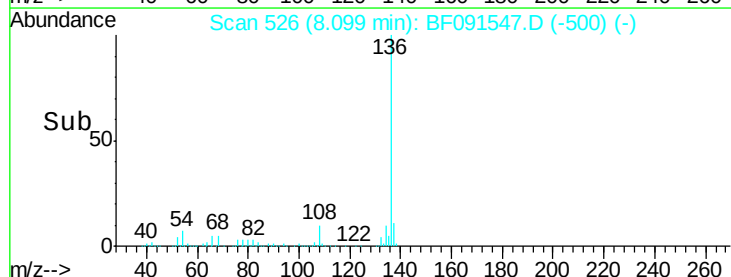
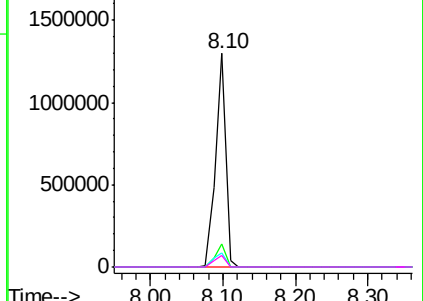


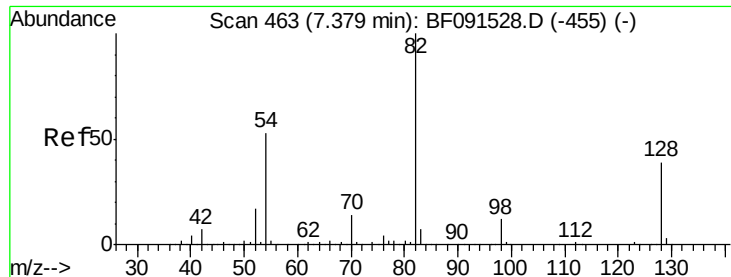
Abundance Ion 136.00 (135.70 to 136.70): E

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

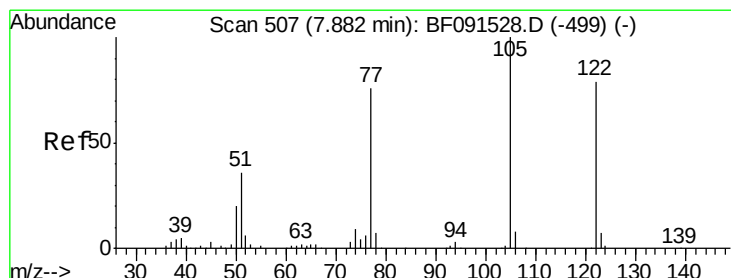
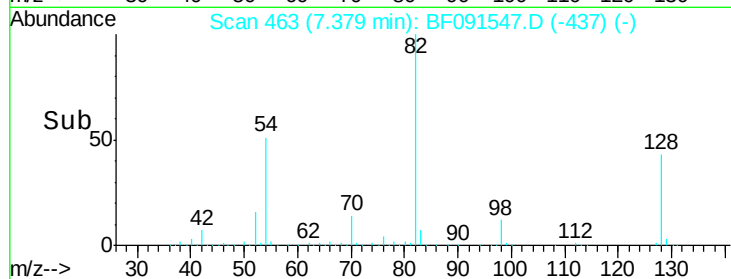
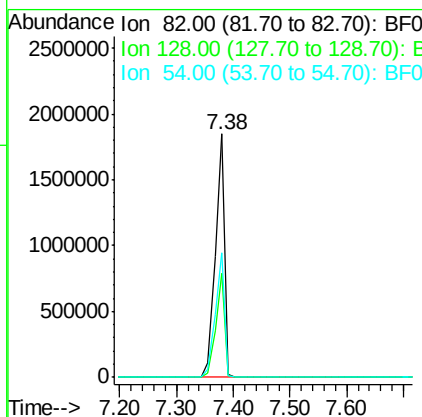
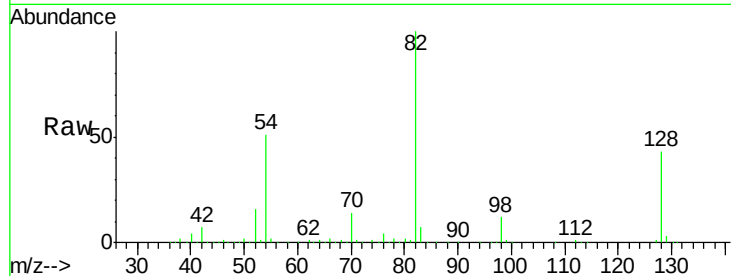




#23  
 Nitrobenzene-d5  
 Concen: 88.11 ng  
 RT: 7.38 min Scan# 463  
 Delta R.T. -0.00 min  
 Lab File: BF091547.D  
 Acq: 13 Dec 2016 12:09

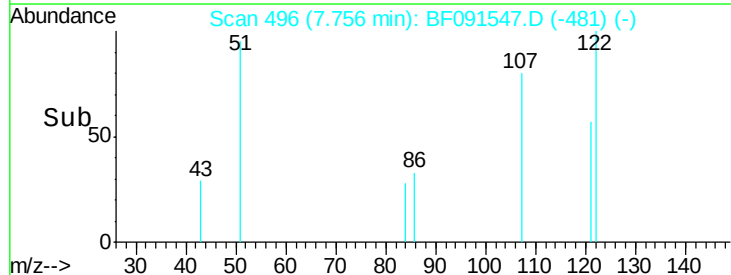
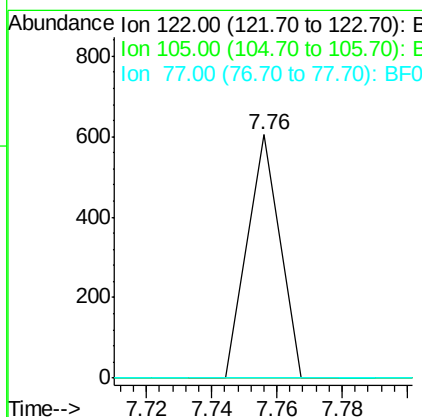
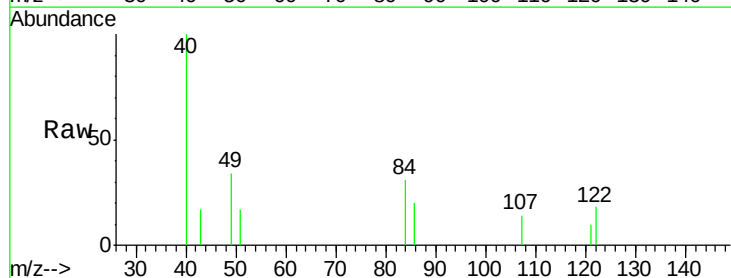
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB95236BL

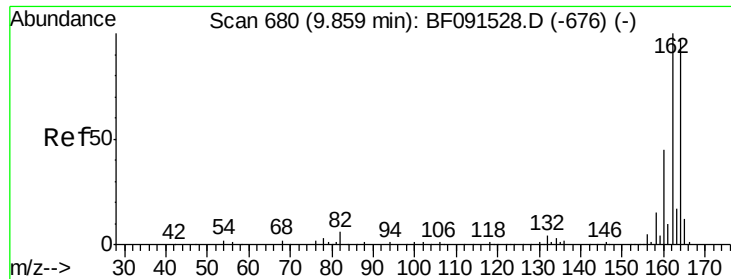
Tgt Ion: 82 Resp: 2002840  
 Ion Ratio Lower Upper  
 82 100  
 128 43.0 31.8 47.6  
 54 51.2 49.1 73.7



#32  
 Benzoic acid  
 Concen: 4.92 ng  
 RT: 7.76 min Scan# 496  
 Delta R.T. -0.13 min  
 Lab File: BF091547.D  
 Acq: 13 Dec 2016 12:09

Tgt Ion: 122 Resp: 415  
 Ion Ratio Lower Upper  
 122 100  
 105 0.0 113.0 153.0#  
 77 0.0 82.0 122.0#

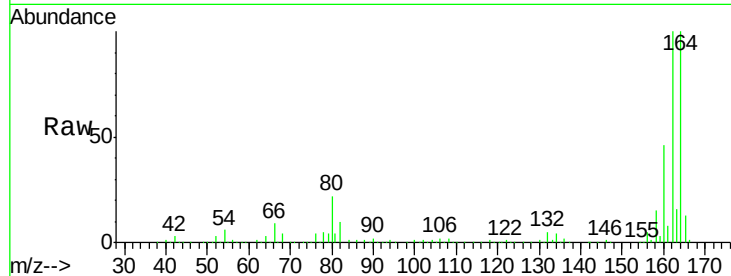




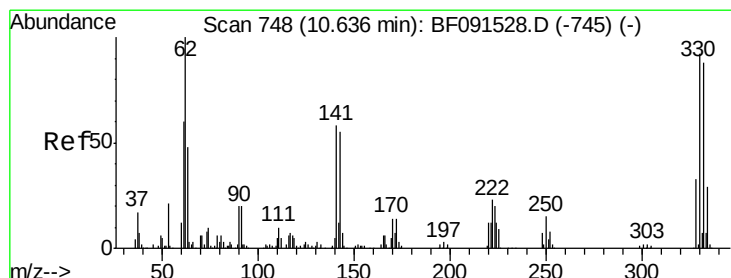
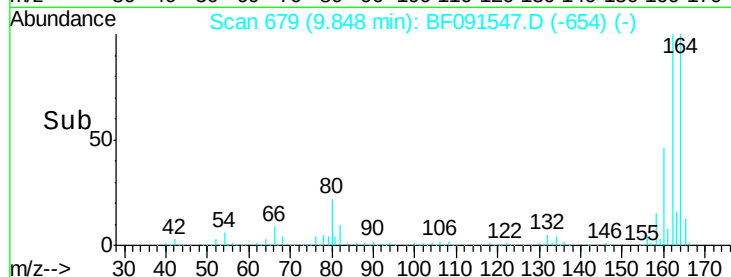
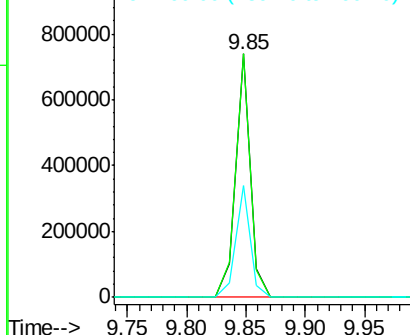
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.85 min Scan# 679  
 Delta R.T. -0.01 min  
 Lab File: BF091547.D  
 Acq: 13 Dec 2016 12:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB95236BL

Tgt Ion:164 Resp: 638975  
 Ion Ratio Lower Upper  
 164 100  
 162 100.1 82.6 124.0  
 160 46.2 36.7 55.1

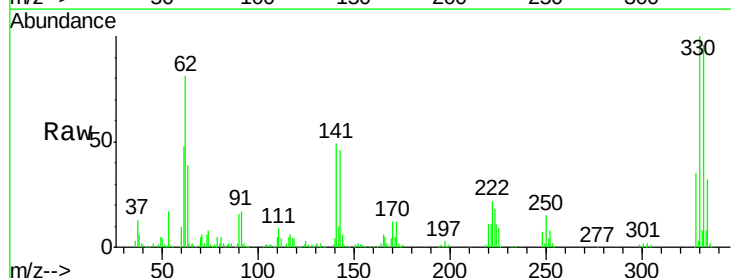


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

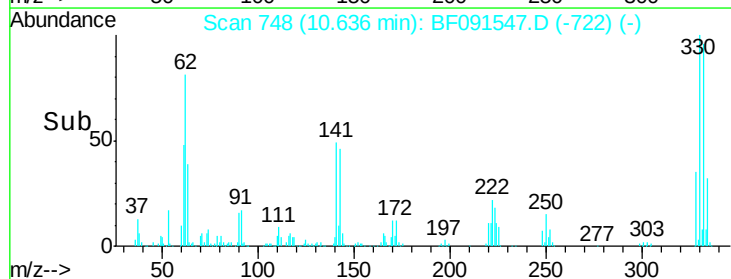
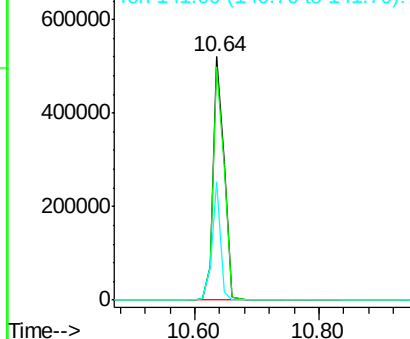


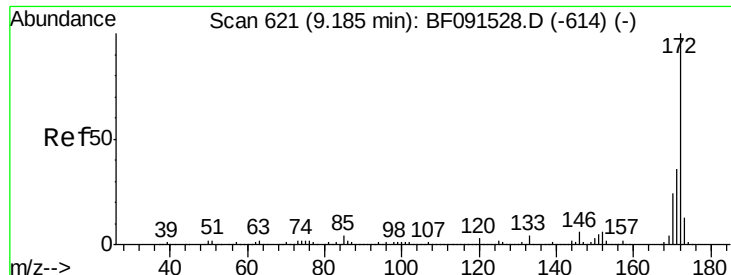
#41  
 2,4,6-Tribromophenol  
 Concen: 117.75 ng  
 RT: 10.64 min Scan# 748  
 Delta R.T. -0.00 min  
 Lab File: BF091547.D  
 Acq: 13 Dec 2016 12:09

Tgt Ion:330 Resp: 624924  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 76.2 114.4  
 141 38.1 33.6 50.4



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

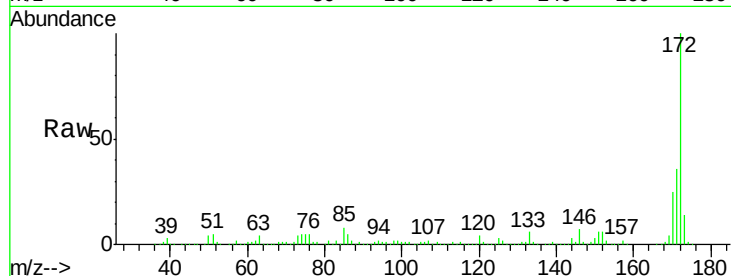




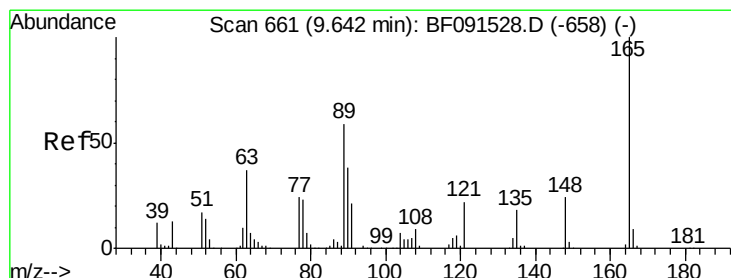
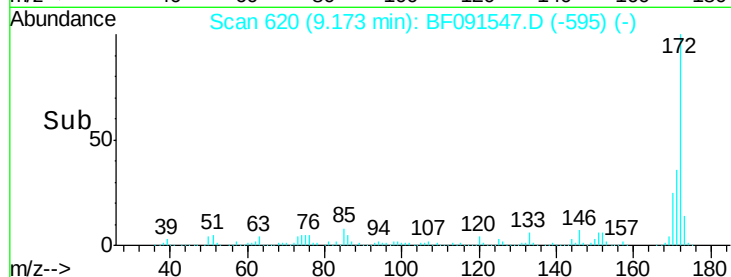
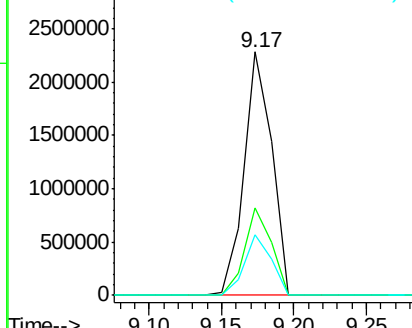
#44  
 2-Fluorobiphenyl  
 Concen: 81.46 ng  
 RT: 9.17 min Scan# 620  
 Delta R.T. -0.01 min  
 Lab File: BF091547.D  
 Acq: 13 Dec 2016 12:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB95236BL

Tgt Ion:172 Resp: 3012319  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.4 44.0  
 170 24.9 19.7 29.5

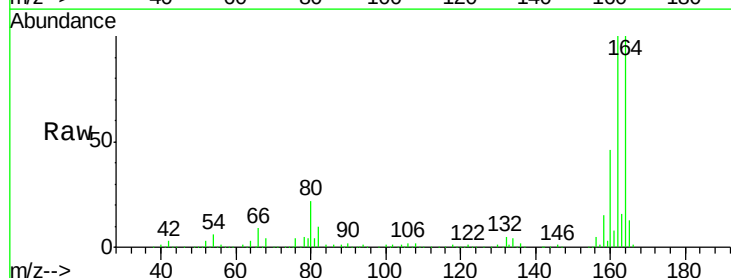


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

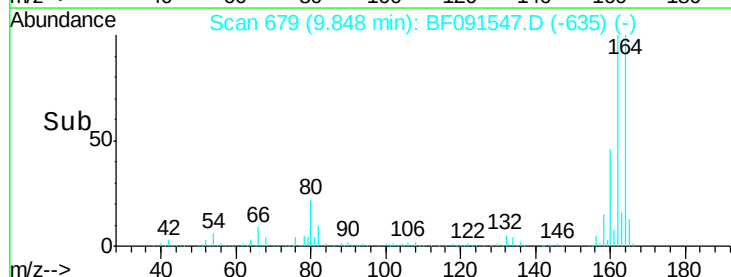
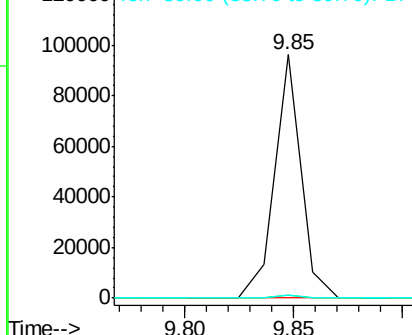


#50  
 2,6-Dinitrotoluene  
 Concen: 9.29 ng  
 RT: 9.85 min Scan# 679  
 Delta R.T. 0.21 min  
 Lab File: BF091547.D  
 Acq: 13 Dec 2016 12:09

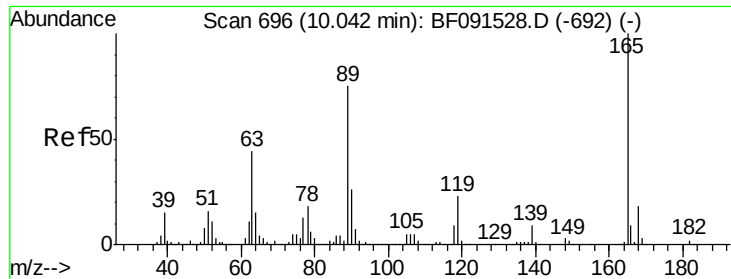
Tgt Ion:165 Resp: 82510  
 Ion Ratio Lower Upper  
 165 100  
 63 1.0 59.4 89.0#  
 89 1.2 50.8 76.2#



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



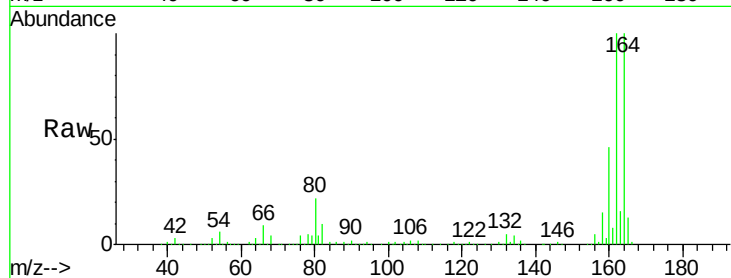




#56  
 2,4-Dinitrotoluene  
 Concen: 7.41 ng  
 RT: 9.85 min Scan# 679  
 Delta R.T. -0.19 min  
 Lab File: BF091547.D  
 Acq: 13 Dec 2016 12:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB95236BL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 82513 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 1.0   | 29.0  | 43.4# |
| 89        | 1.2   | 43.1  | 64.7# |
| 182       | 0.0   | 1.9   | 2.9#  |

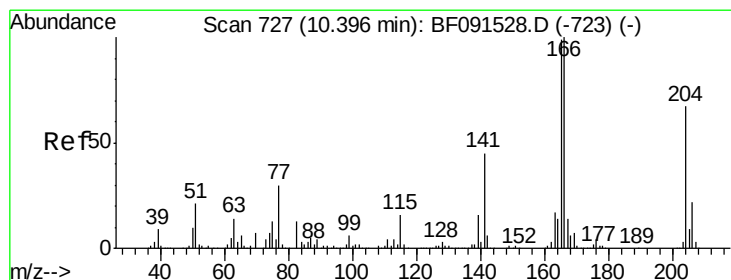
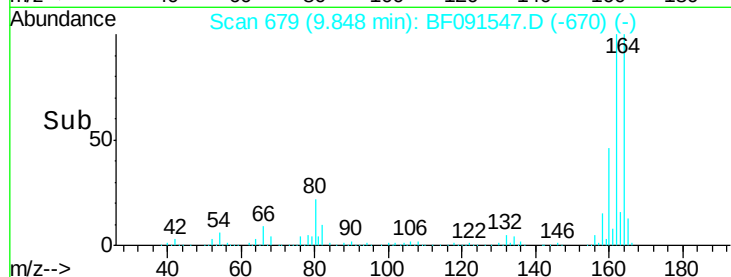
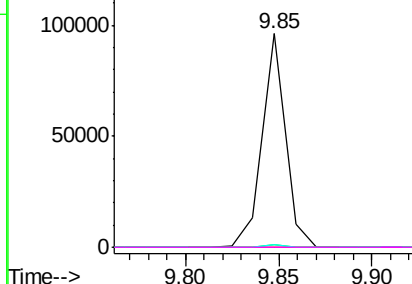


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

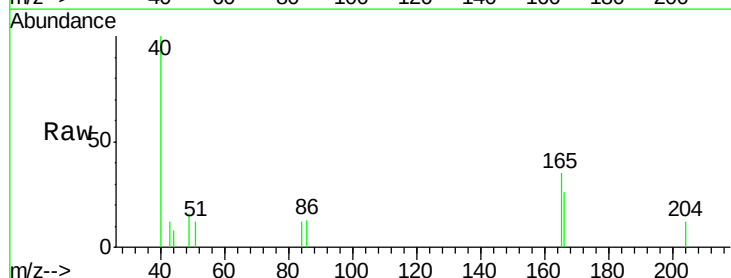
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57  
 Fluorene  
 Concen: Below Cal  
 RT: 10.40 min Scan# 727  
 Delta R.T. 0.00 min  
 Lab File: BF091547.D  
 Acq: 13 Dec 2016 12:09

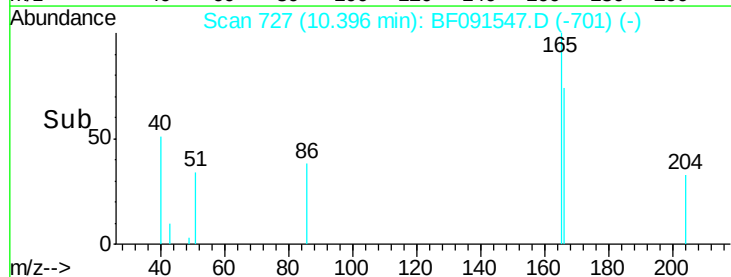
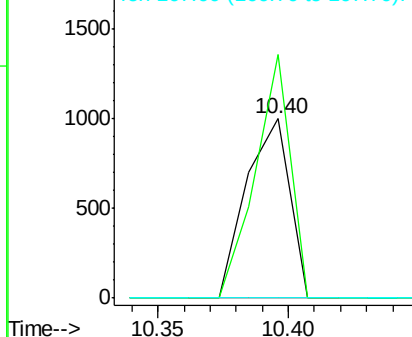
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 1162   |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 136.0 | 80.0  | 120.0# |
| 167       | 0.0   | 10.8  | 16.2#  |

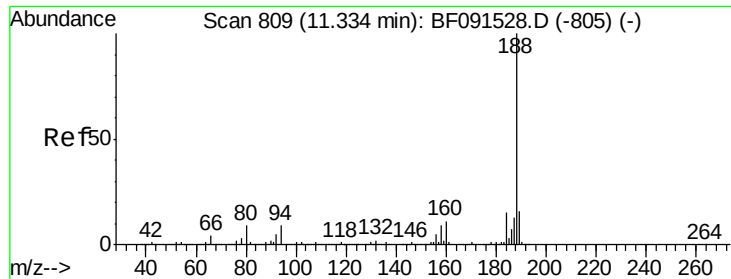


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

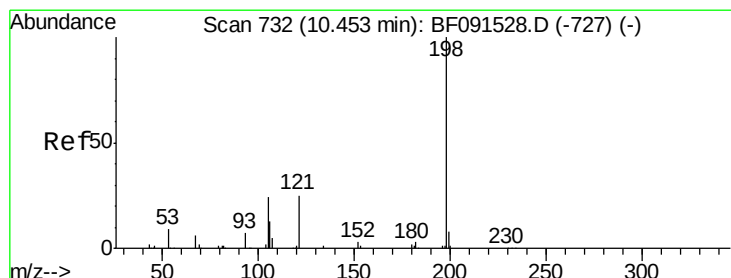
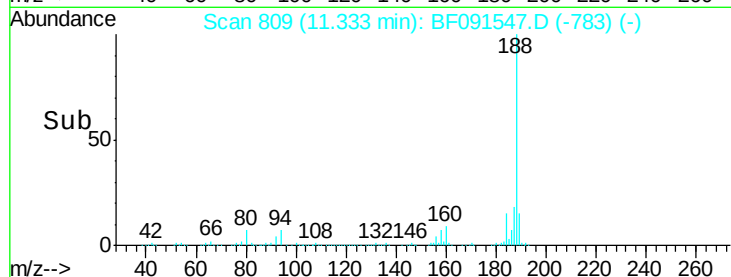
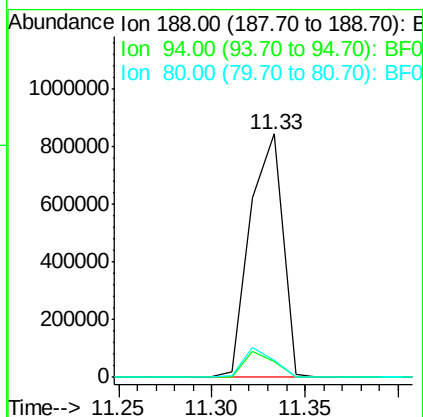
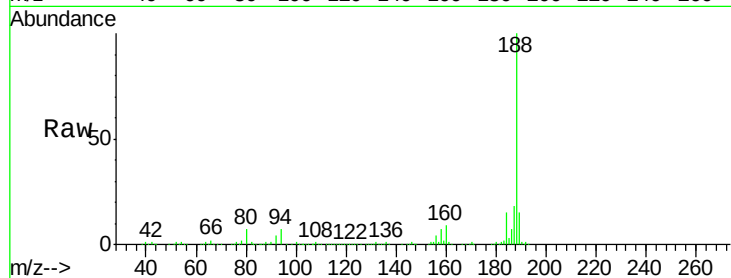




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.33 min Scan# 809  
Delta R.T. -0.00 min  
Lab File: BF091547.D  
Acq: 13 Dec 2016 12:09

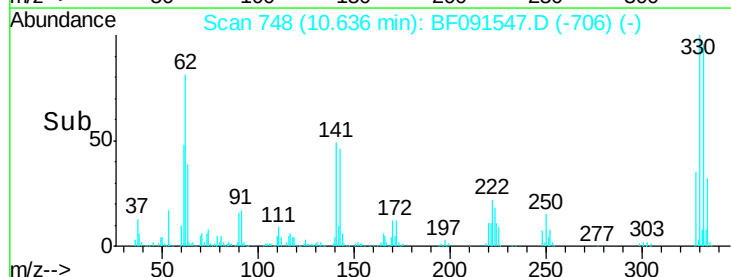
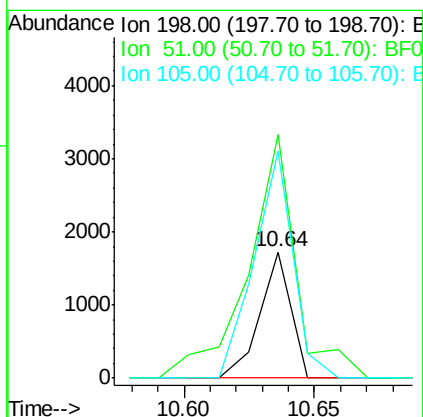
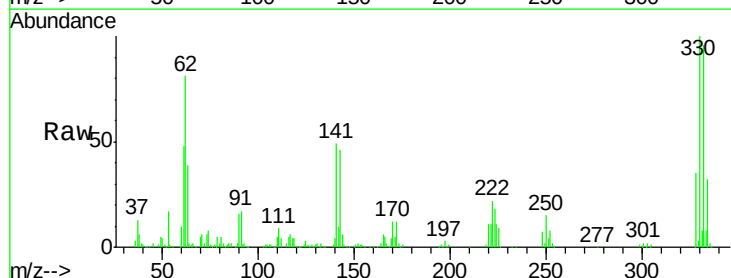
Instrument :  
BNA\_F  
ClientSampleId :  
PB95236BL

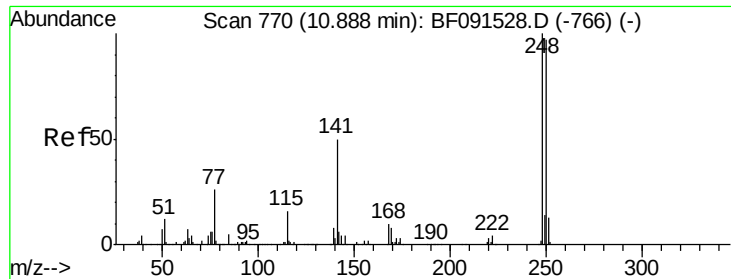
Tgt Ion:188 Resp: 1027221  
Ion Ratio Lower Upper  
188 100  
94 6.7 9.2 13.8#  
80 6.8 10.5 15.7#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 3.16 ng  
RT: 10.64 min Scan# 748  
Delta R.T. 0.18 min  
Lab File: BF091547.D  
Acq: 13 Dec 2016 12:09

Tgt Ion:198 Resp: 1421  
Ion Ratio Lower Upper  
198 100  
51 193.2 77.1 117.1#  
105 179.8 44.8 84.8#

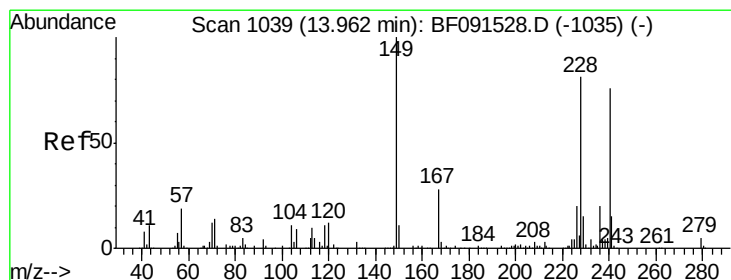
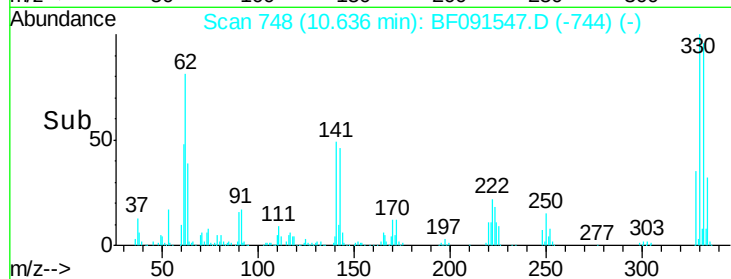
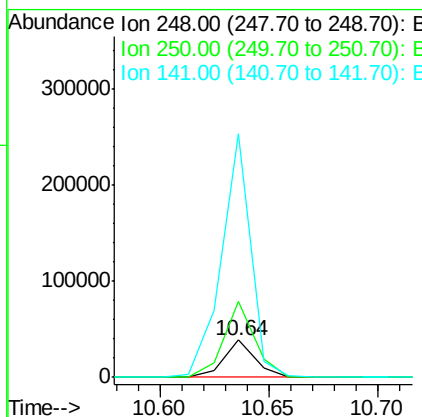
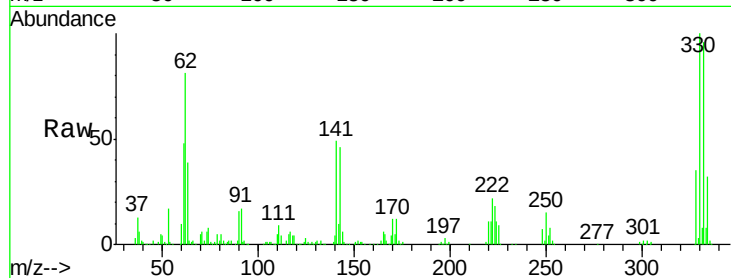




#66  
4-Bromophenyl-phenylether  
Concen: 3.64 ng  
RT: 10.64 min Scan# 748  
Delta R.T. -0.25 min  
Lab File: BF091547.D  
Acq: 13 Dec 2016 12:09

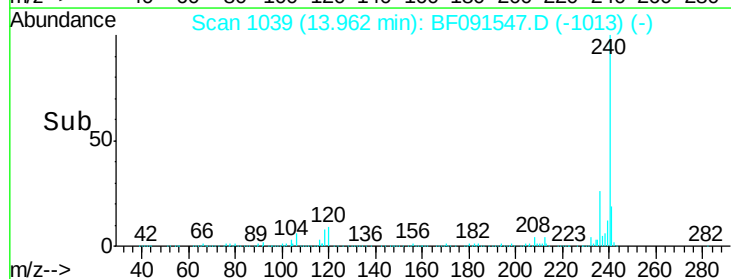
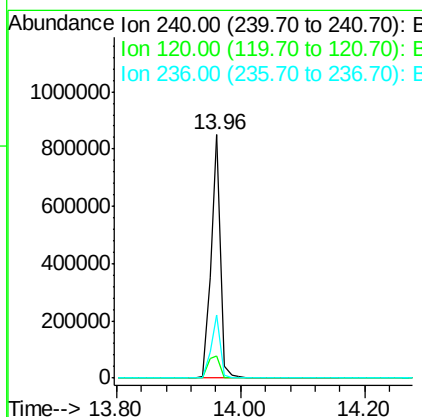
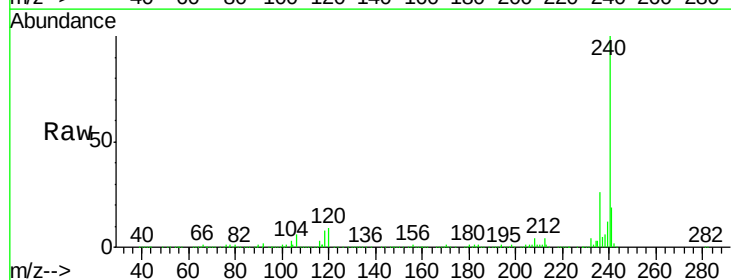
Instrument :  
BNA\_F  
ClientSampleId :  
PB95236BL

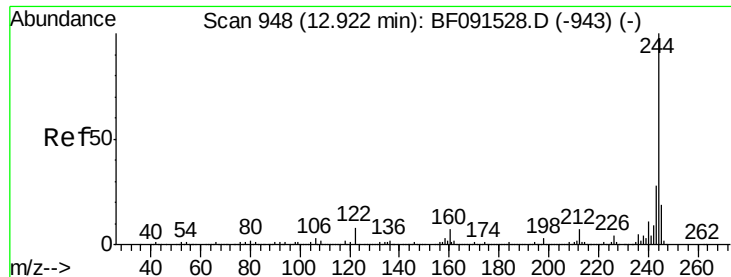
Tgt Ion:248 Resp: 38333  
Ion Ratio Lower Upper  
248 100  
250 201.5 78.2 117.4#  
141 649.9 71.9 107.9#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.96 min Scan# 1039  
Delta R.T. -0.00 min  
Lab File: BF091547.D  
Acq: 13 Dec 2016 12:09

Tgt Ion:240 Resp: 875761  
Ion Ratio Lower Upper  
240 100  
120 9.1 12.1 18.1#  
236 25.7 21.0 31.6





#78

Terphenyl-d14

Concen: 75.61 ng

RT: 12.92 min Scan# 948

Delta R.T. -0.00 min

Lab File: BF091547.D

Acq: 13 Dec 2016 12:09

Instrument :

BNA\_F

ClientSampleId :

PB95236BL

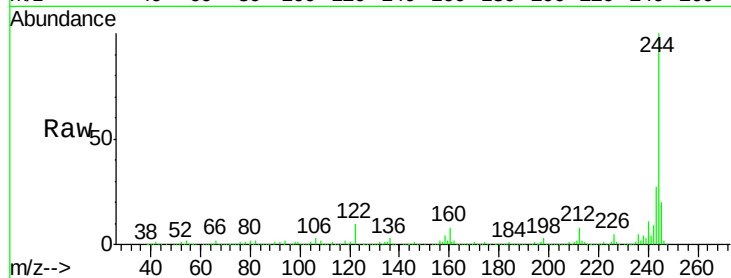
Tgt Ion:244 Resp: 2918249

Ion Ratio Lower Upper

244 100

212 7.5 6.5 9.7

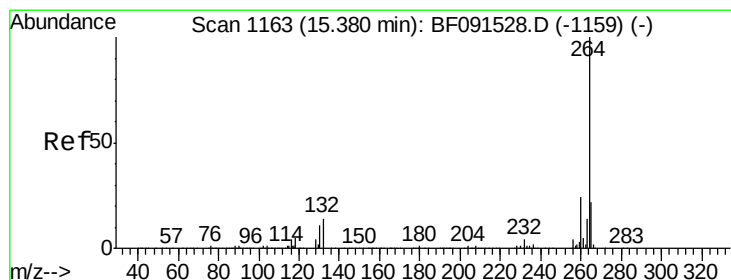
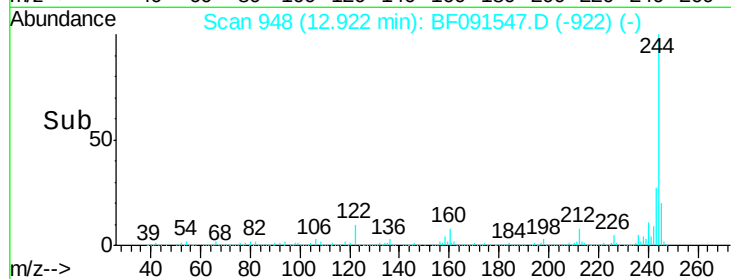
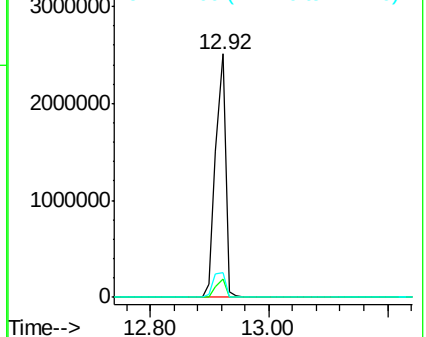
122 10.2 9.5 14.3



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: 15.37 min Scan# 1162

Delta R.T. -0.01 min

Lab File: BF091547.D

Acq: 13 Dec 2016 12:09

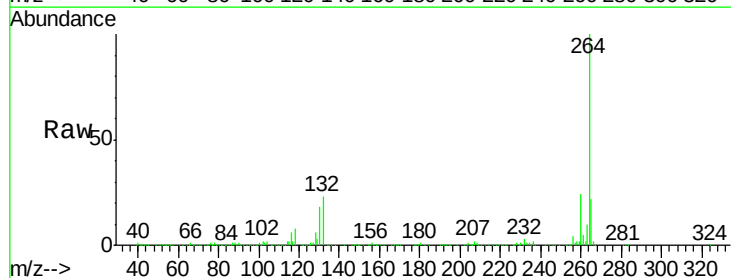
Tgt Ion:264 Resp: 711546

Ion Ratio Lower Upper

264 100

260 23.6 18.8 28.2

265 21.8 17.0 25.6



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

