

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
 Data File : BF086958.D  
 Acq On : 13 May 2016 6:43  
 Operator : UM/SJ  
 Sample : H2994-13  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PM-STA-1343-28.39(0-4)

Quant Time: May 13 07:59:44 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 13 00:58:18 2016  
 Response via : Initial Calibration

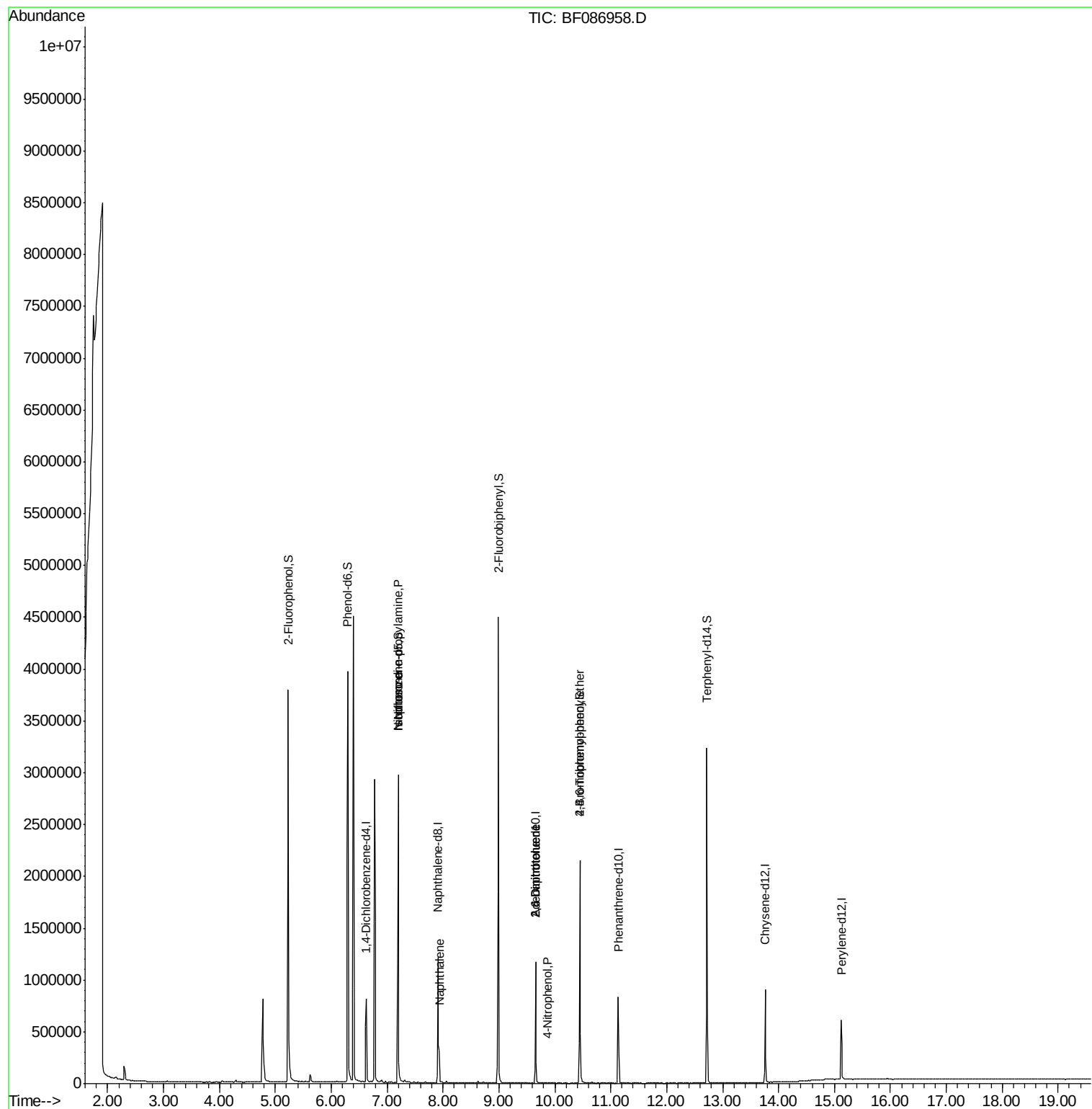
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.63  | 152  | 142670   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.91  | 136  | 513794   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.66  | 164  | 207831   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.13 | 188  | 310903   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.76 | 240  | 303710   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.12 | 264  | 259658   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.23  | 112  | 1137174  | 134.98 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.30  | 99   | 1409948  | 125.23 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.20  | 82   | 947821   | 92.63  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.44 | 330  | 235390   | 106.98 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 8.99  | 172  | 1423711  | 115.13 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.72 | 244  | 939251   | 65.62  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.20  | 70   | 136574   | 17.36  | ng    | # 71     |
| 25) Isophorone                 | 7.20  | 82   | 924274   | 48.68  | ng    | # 68     |
| 31) Naphthalene                | 7.93  | 128  | 120416   | 4.68   | ng    | # 99     |
| 50) 2,6-Dinitrotoluene         | 9.66  | 165  | 26615    | 7.98   | ng    | # 21     |
| 55) 4-Nitrophenol              | 9.86  | 139  | 688      | 4.84   | ng    | # 14     |
| 56) 2,4-Dinitrotoluene         | 9.66  | 165  | 26615    | 6.44   | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 10.44 | 248  | 14217    | 4.51   | ng    | # 1      |

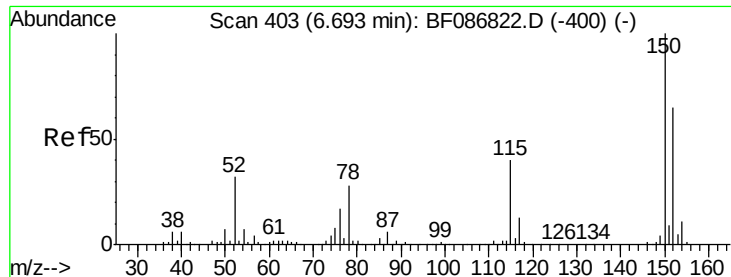
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.63 min Scan# 441

Delta R.T. 0.00 min

Lab File: BF086958.D

Acq: 13 May 2016 6:43

Instrument :

BNA\_F

ClientSampleId :

PM-STA-1343-28.39(0-4)

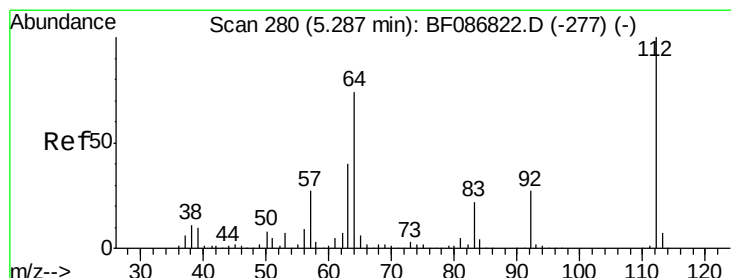
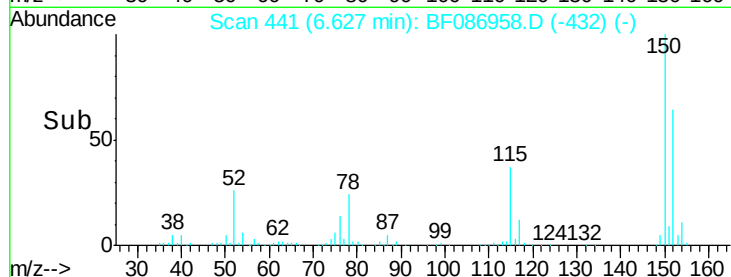
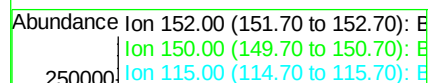
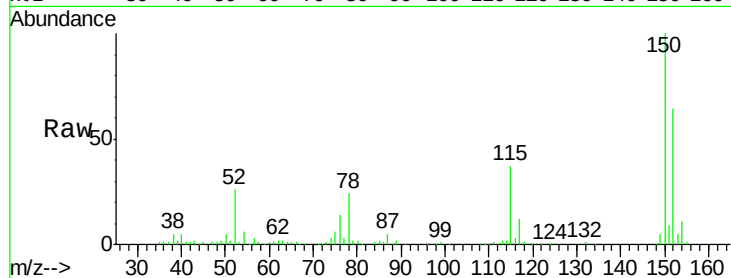
Tgt Ion:152 Resp: 142670

Ion Ratio Lower Upper

152 100

150 155.8 125.8 188.6

115 58.3 51.5 77.3



#5

2-Fluorophenol

Concen: 134.98 ng

RT: 5.23 min Scan# 319

Delta R.T. 0.02 min

Lab File: BF086958.D

Acq: 13 May 2016 6:43

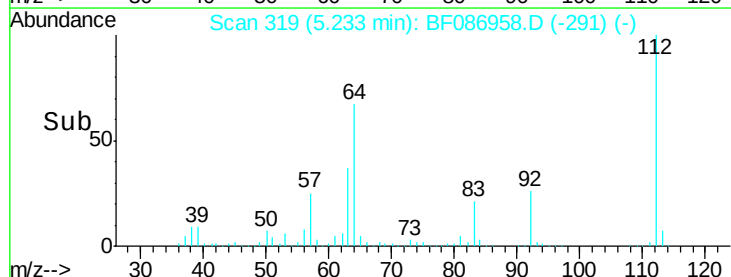
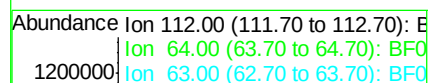
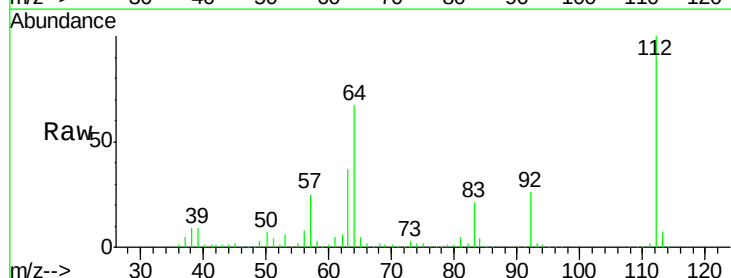
Tgt Ion:112 Resp: 1137174

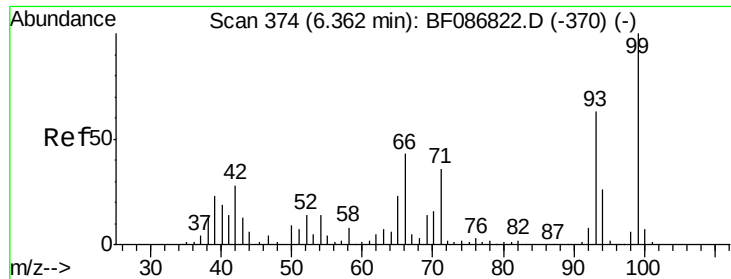
Ion Ratio Lower Upper

112 100

64 67.3 52.1 78.1

63 36.7 25.7 38.5





#7

Phenol-d6

Concen: 125.23 ng

RT: 6.30 min Scan# 412

Delta R.T. 0.00 min

Lab File: BF086958.D

Acq: 13 May 2016 6:43

Instrument :

BNA\_F

ClientSampleId :

PM-STA-1343-28.39(0-4)

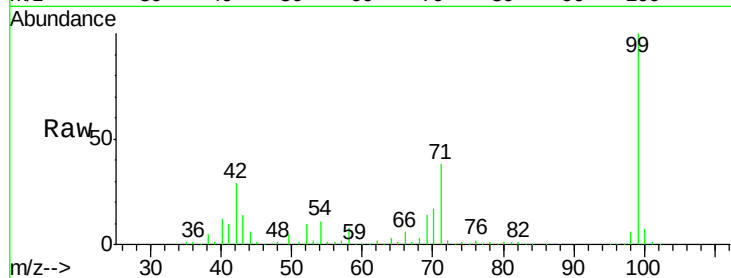
Tgt Ion: 99 Resp: 1409948

Ion Ratio Lower Upper

99 100

42 28.5 13.6 20.4#

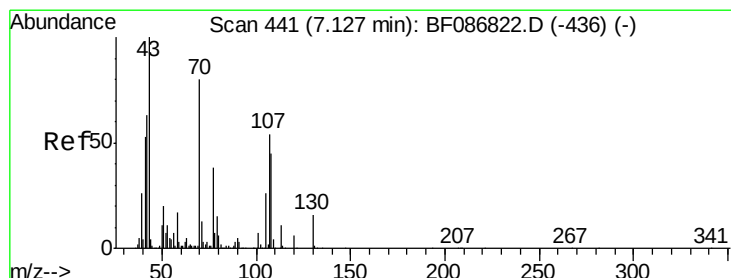
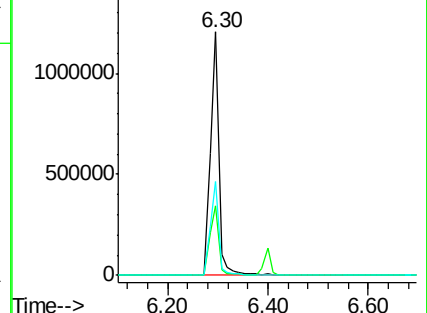
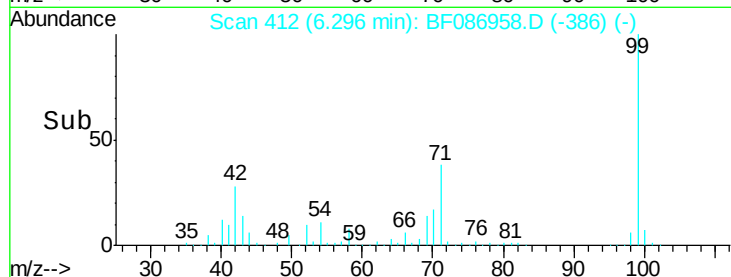
71 38.3 24.6 36.8#



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: 17.36 ng

RT: 7.20 min Scan# 491

Delta R.T. 0.14 min

Lab File: BF086958.D

Acq: 13 May 2016 6:43

Tgt Ion: 70 Resp: 136574

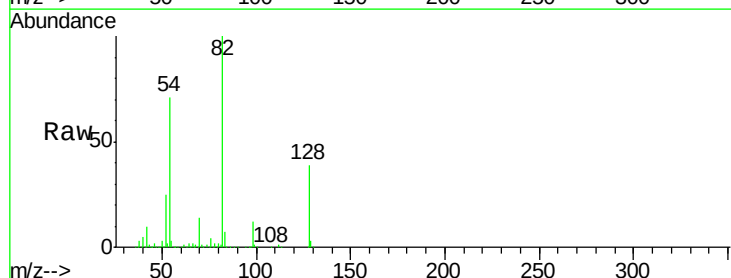
Ion Ratio Lower Upper

70 100

42 70.0 43.1 64.7#

101 0.0 8.1 12.1#

130 1.7 18.6 28.0#

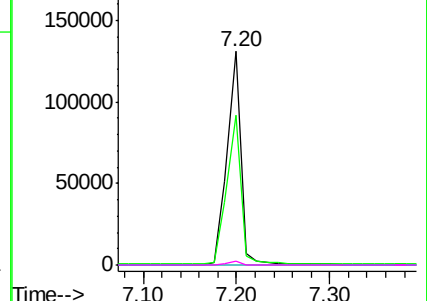
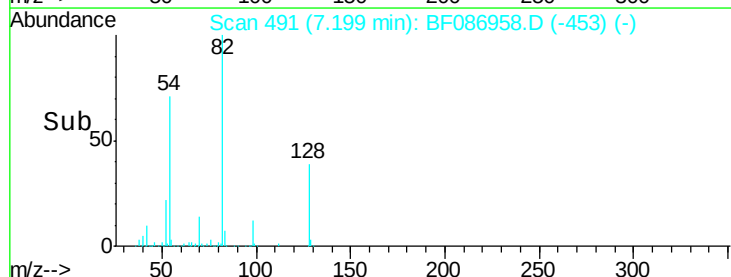


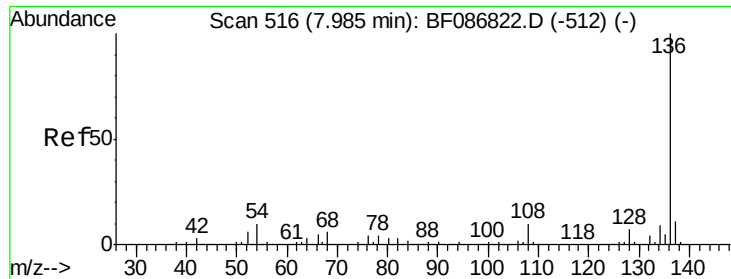
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E

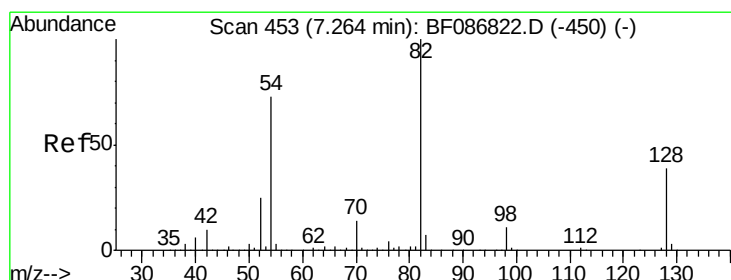
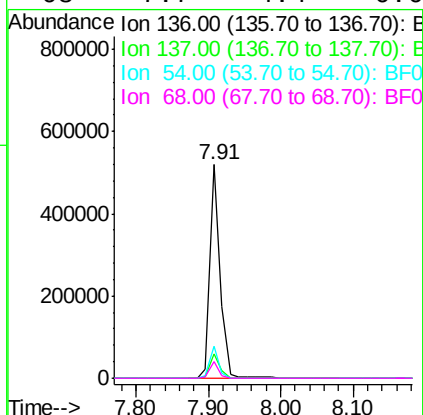
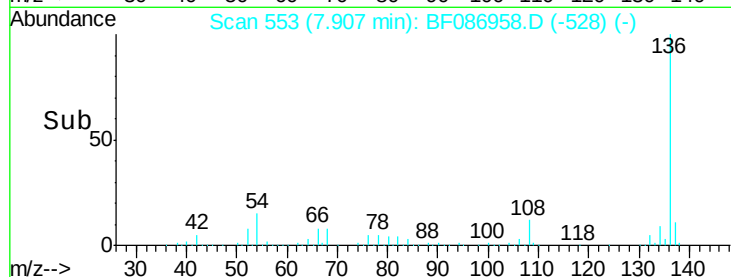
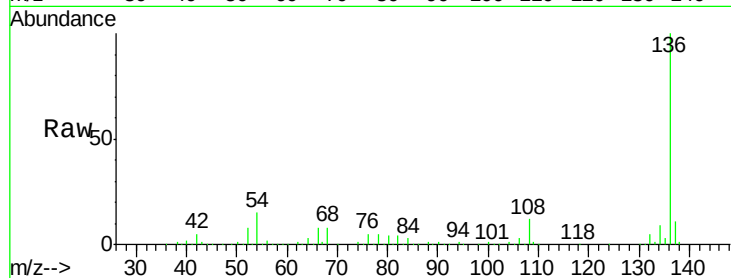




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.91 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF086958.D  
Acq: 13 May 2016 6:43

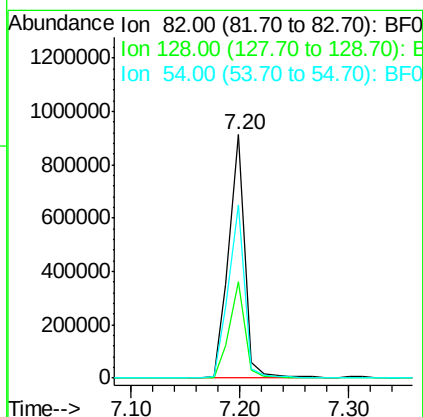
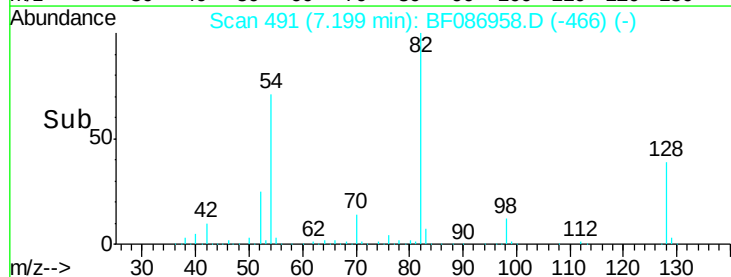
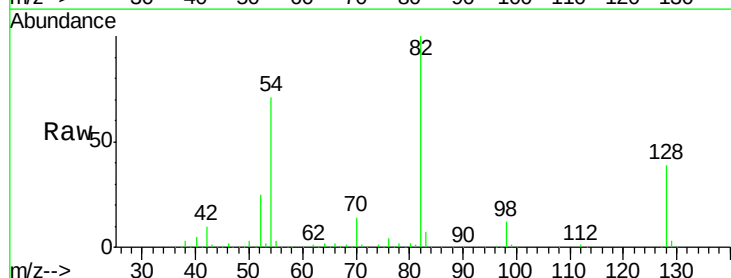
Instrument :  
BNA\_F  
ClientSampleId :  
PM-STA-1343-28.39(0-4)

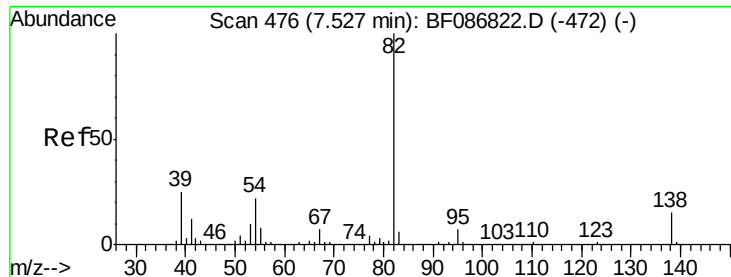
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 513794 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.8   | 13.2   |
| 54       | 14.8  | 5.0   | 7.4#   |
| 68       | 7.7   | 4.4   | 6.6#   |



#23  
Nitrobenzene-d5  
Concen: 92.63 ng  
RT: 7.20 min Scan# 491  
Delta R.T. -0.01 min  
Lab File: BF086958.D  
Acq: 13 May 2016 6:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 947821 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 39.4  | 40.6  | 61.0#  |
| 54       | 71.2  | 38.1  | 57.1#  |





#25

Isophorone

Concen: 48.68 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.26 min

Lab File: BF086958.D

Acq: 13 May 2016 6:43

Instrument :

BNA\_F

ClientSampleId :

PM-STA-1343-28.39(0-4)

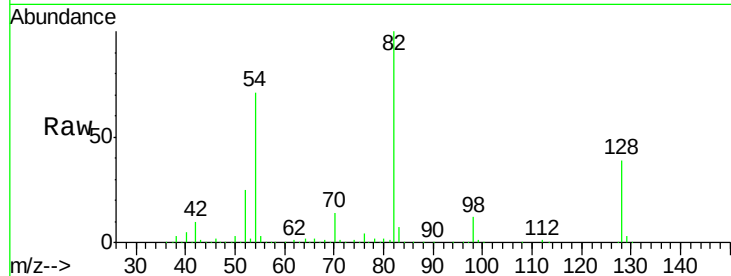
Tgt Ion: 82 Resp: 924274

Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

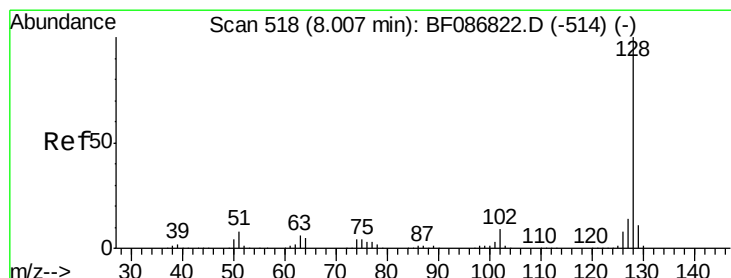
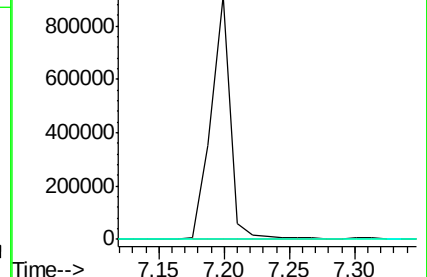
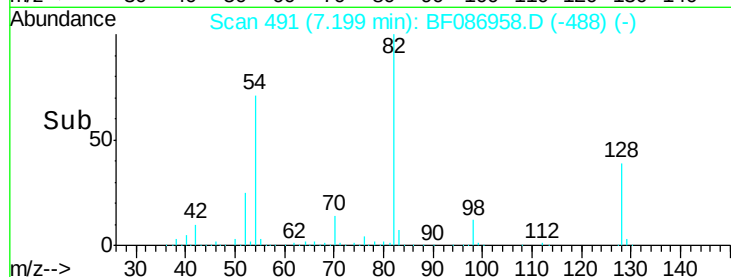
138 0.0 12.4 18.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#31

Naphthalene

Concen: 4.68 ng

RT: 7.93 min Scan# 555

Delta R.T. -0.01 min

Lab File: BF086958.D

Acq: 13 May 2016 6:43

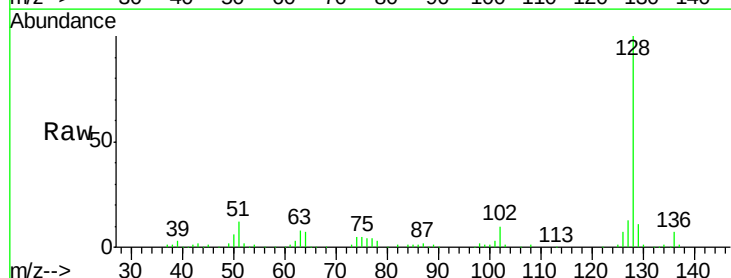
Tgt Ion: 128 Resp: 120416

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

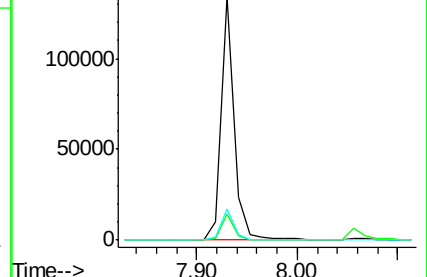
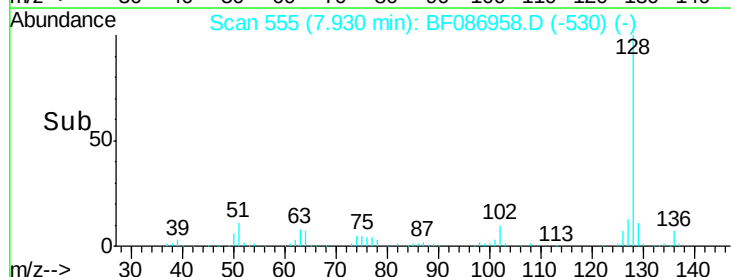
127 12.9 10.8 16.2

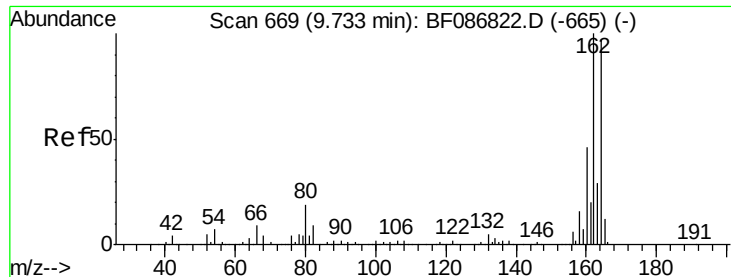


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

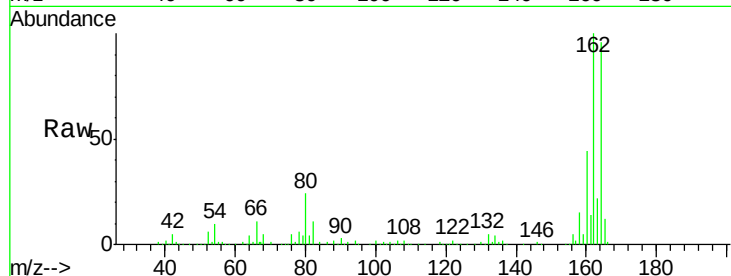




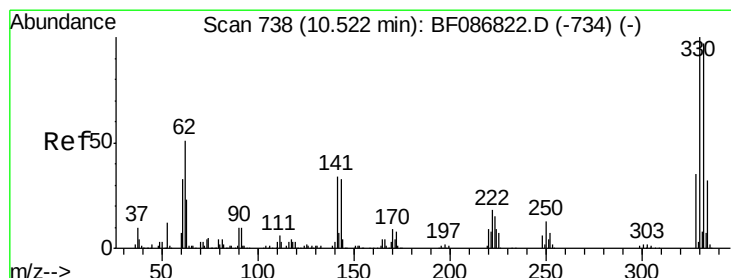
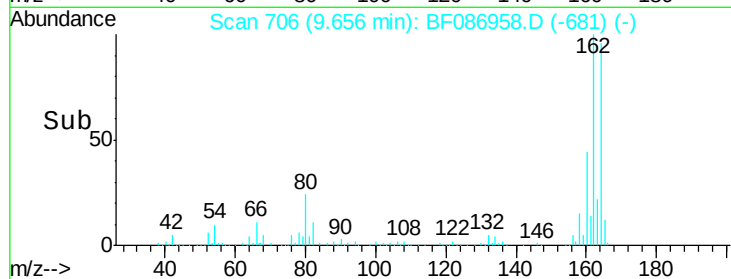
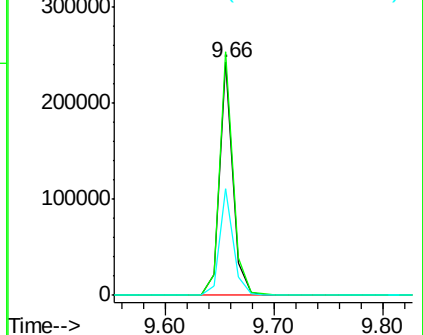
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.66 min Scan# 706  
 Delta R.T. -0.01 min  
 Lab File: BF086958.D  
 Acq: 13 May 2016 6:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PM-STA-1343-28.39(0-4)

Tgt Ion:164 Resp: 207831  
 Ion Ratio Lower Upper  
 164 100  
 162 104.4 82.8 124.2  
 160 45.9 36.9 55.3

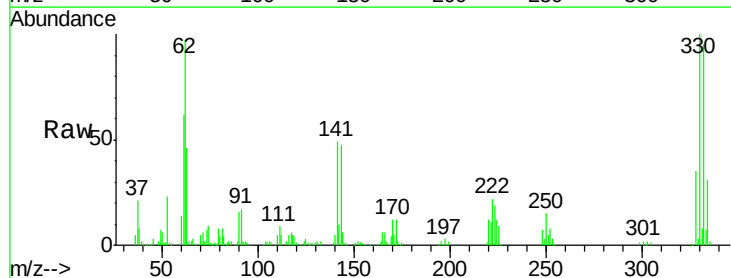


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

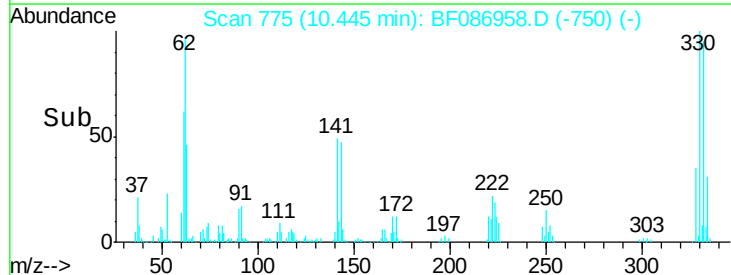
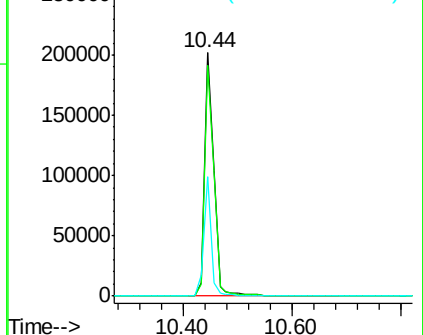


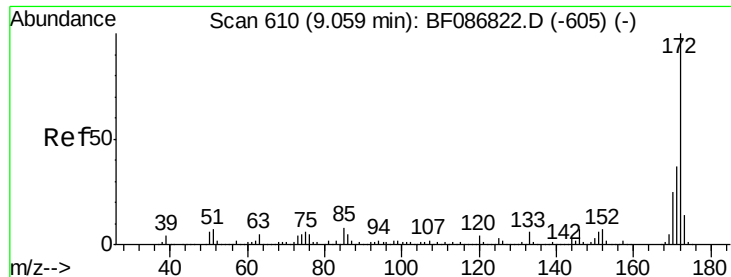
#41  
 2,4,6-Tribromophenol  
 Concen: 106.98 ng  
 RT: 10.44 min Scan# 775  
 Delta R.T. -0.01 min  
 Lab File: BF086958.D  
 Acq: 13 May 2016 6:43

Tgt Ion:330 Resp: 235390  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 79.0 118.4  
 141 39.5 31.2 46.8



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

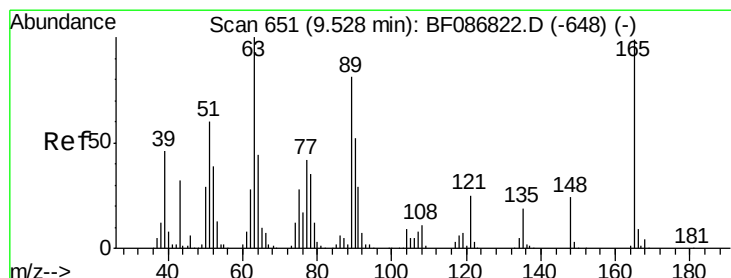
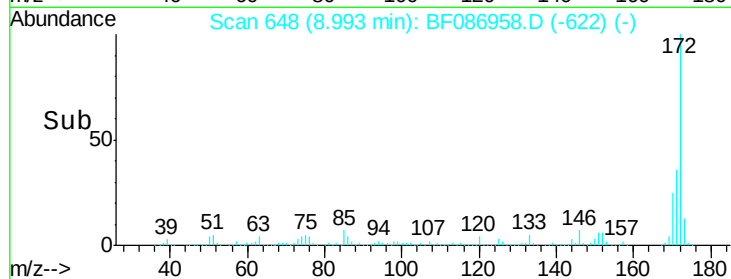
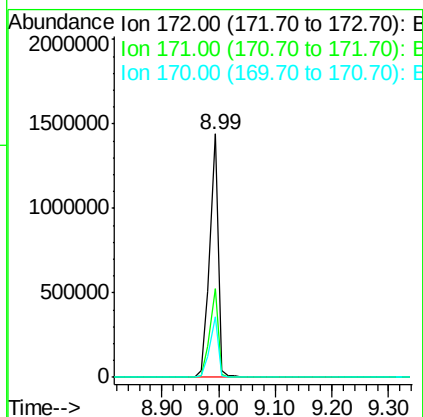
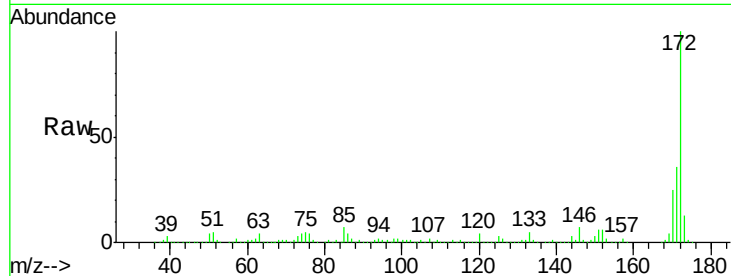




#44  
 2-Fluorobiphenyl  
 Concen: 115.13 ng  
 RT: 8.99 min Scan# 648  
 Delta R.T. 0.00 min  
 Lab File: BF086958.D  
 Acq: 13 May 2016 6:43

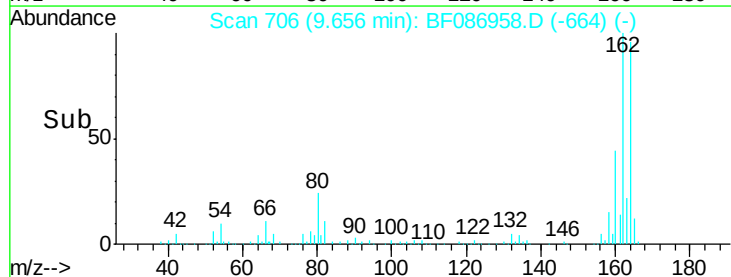
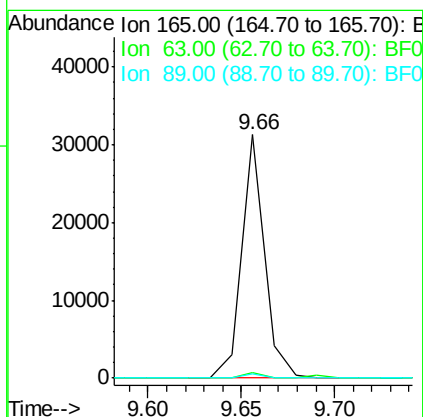
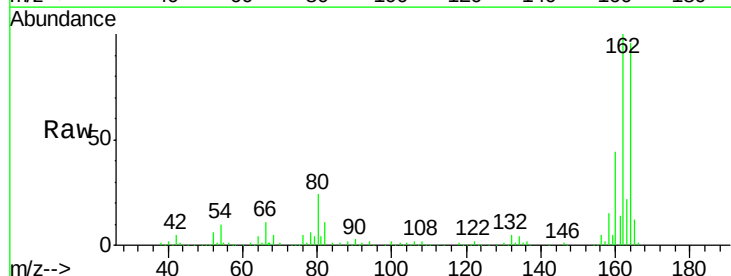
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PM-STA-1343-28.39(0-4)

Tgt Ion:172 Resp: 1423711  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 29.0 43.6  
 170 24.7 19.8 29.8

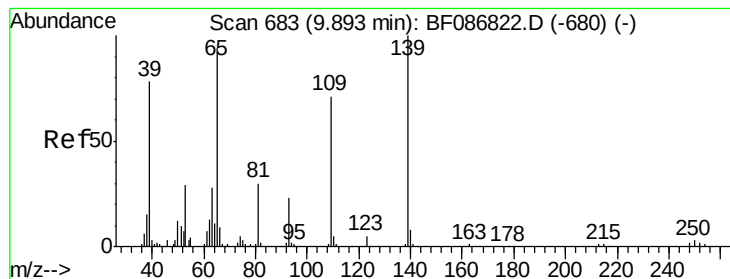


#50  
 2,6-Dinitrotoluene  
 Concen: 7.98 ng  
 RT: 9.66 min Scan# 706  
 Delta R.T. 0.18 min  
 Lab File: BF086958.D  
 Acq: 13 May 2016 6:43

Tgt Ion:165 Resp: 26615  
 Ion Ratio Lower Upper  
 165 100  
 63 2.0 51.8 77.8#  
 89 1.7 50.7 76.1#







#55

4-Nitrophenol

Concen: 4.84 ng

RT: 9.86 min Scan# 724

Delta R.T. 0.03 min

Lab File: BF086958.D

Acq: 13 May 2016 6:43

Instrument :

BNA\_F

ClientSampleId :

PM-STA-1343-28.39(0-4)

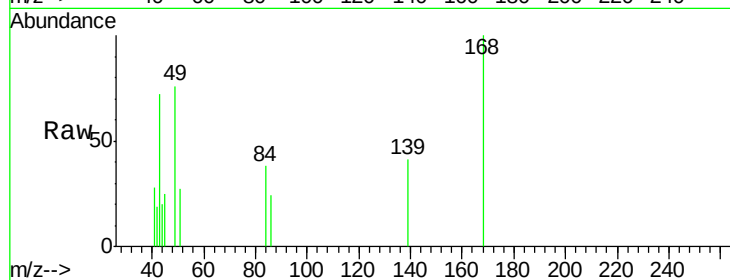
Tgt Ion:139 Resp: 688

Ion Ratio Lower Upper

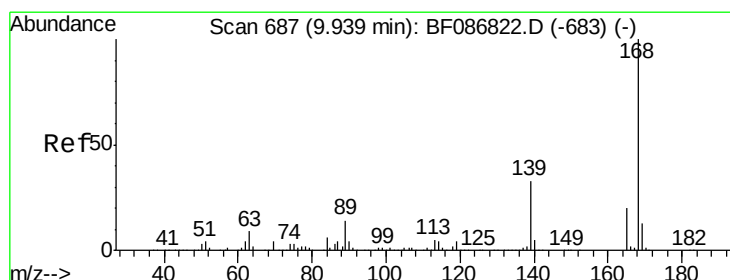
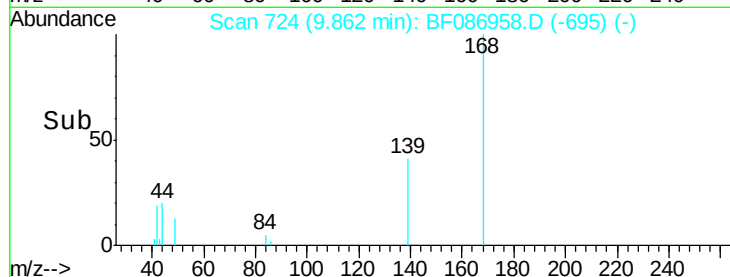
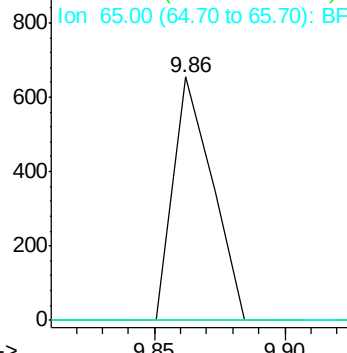
139 100

109 0.0 36.9 76.9#

65 0.0 64.0 104.0#



Abundance Ion 139.00 (138.70 to 139.70): E



#56

2,4-Dinitrotoluene

Concen: 6.44 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.22 min

Lab File: BF086958.D

Acq: 13 May 2016 6:43

Tgt Ion:165 Resp: 26615

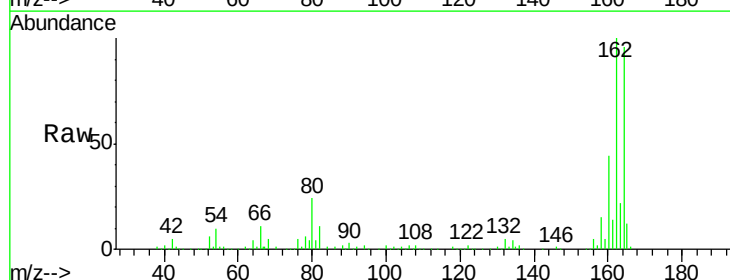
Ion Ratio Lower Upper

165 100

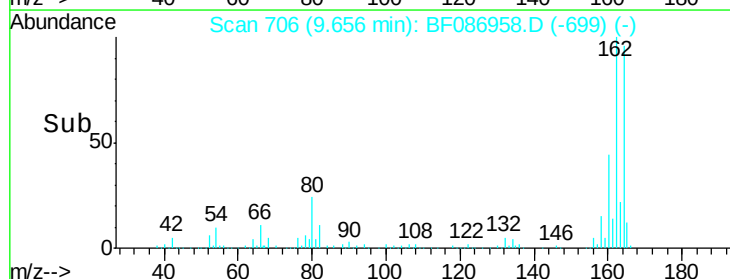
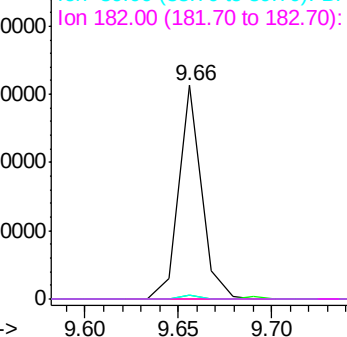
63 2.0 44.3 66.5#

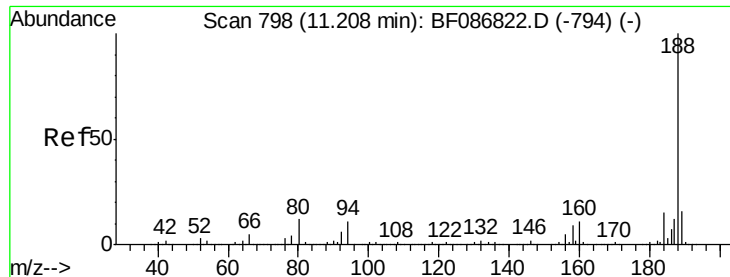
89 1.7 70.0 105.0#

182 0.0 1.8 2.6#



Abundance Ion 165.00 (164.70 to 165.70): E

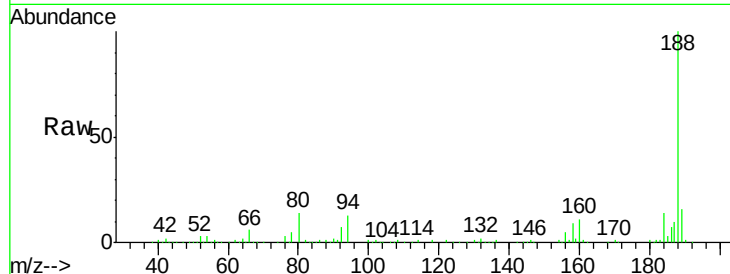




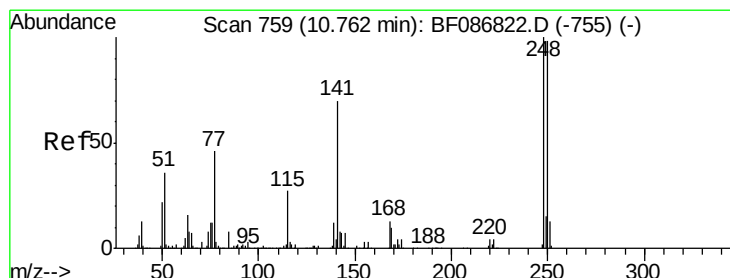
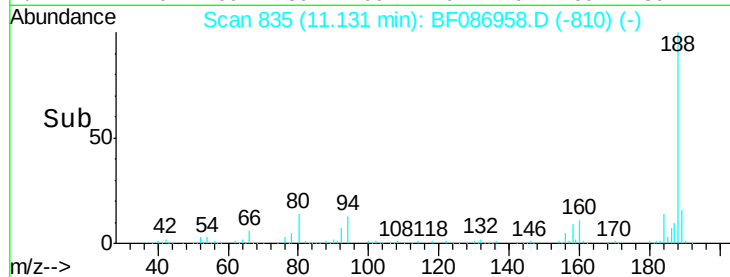
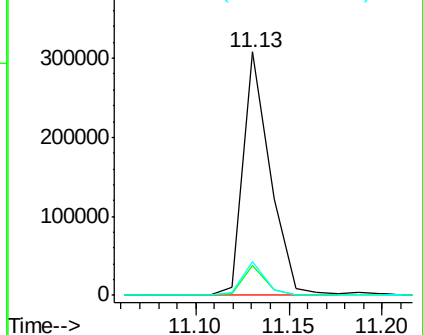
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.13 min Scan# 835  
Delta R.T. -0.01 min  
Lab File: BF086958.D  
Acq: 13 May 2016 6:43

Instrument :  
BNA\_F  
ClientSampleId :  
PM-STA-1343-28.39(0-4)

Tgt Ion:188 Resp: 310903  
Ion Ratio Lower Upper  
188 100  
94 12.5 6.8 10.2#  
80 14.0 7.1 10.7#

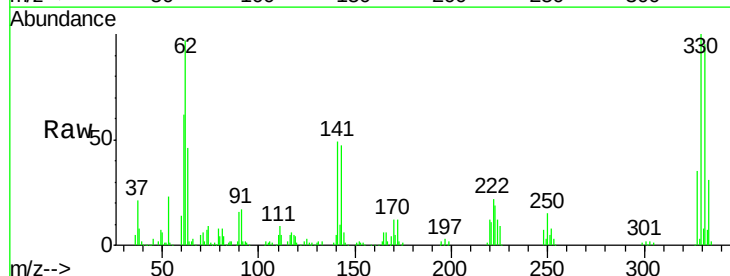


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

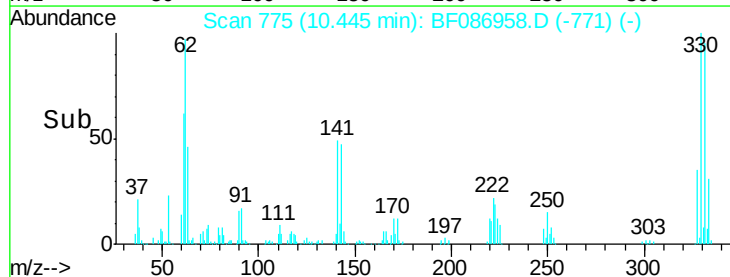
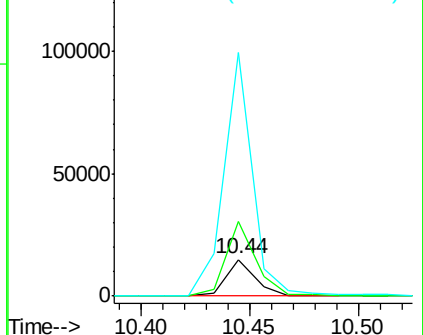


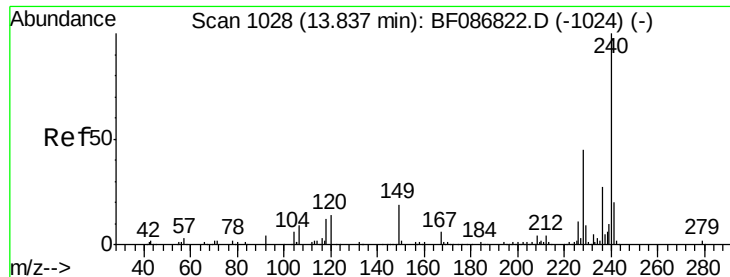
#66  
4-Bromophenyl-phenylether  
Concen: 4.51 ng  
RT: 10.44 min Scan# 775  
Delta R.T. -0.25 min  
Lab File: BF086958.D  
Acq: 13 May 2016 6:43

Tgt Ion:248 Resp: 14217  
Ion Ratio Lower Upper  
248 100  
250 202.9 78.6 117.8#  
141 659.7 76.0 114.0#



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: 13.76 min Scan# 1065

Delta R.T. -0.01 min

Lab File: BF086958.D

Acq: 13 May 2016 6:43

Instrument :

BNA\_F

ClientSampleId :

PM-STA-1343-28.39(0-4)

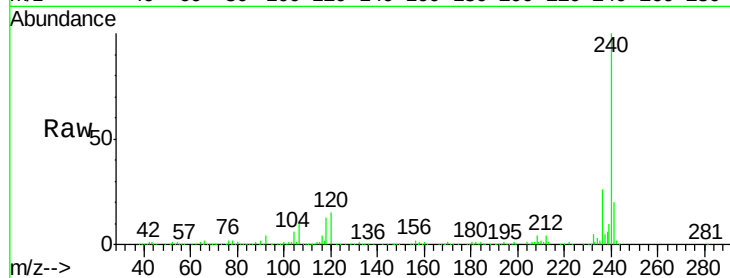
Tgt Ion:240 Resp: 303710

Ion Ratio Lower Upper

240 100

120 14.6 11.2 16.8

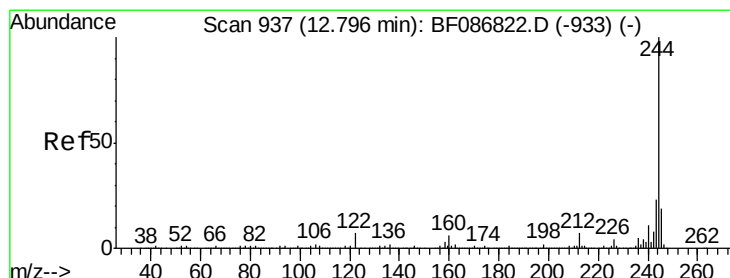
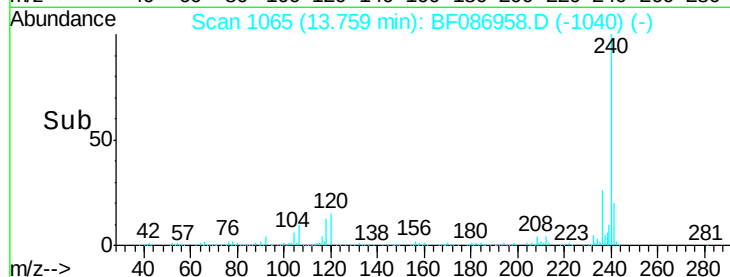
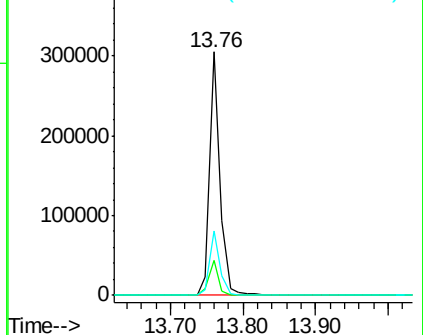
236 26.3 21.2 31.8



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: 65.62 ng

RT: 12.72 min Scan# 974

Delta R.T. 0.00 min

Lab File: BF086958.D

Acq: 13 May 2016 6:43

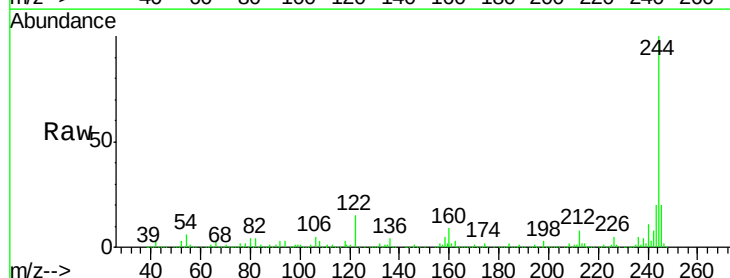
Tgt Ion:244 Resp: 939251

Ion Ratio Lower Upper

244 100

212 8.1 6.2 9.2

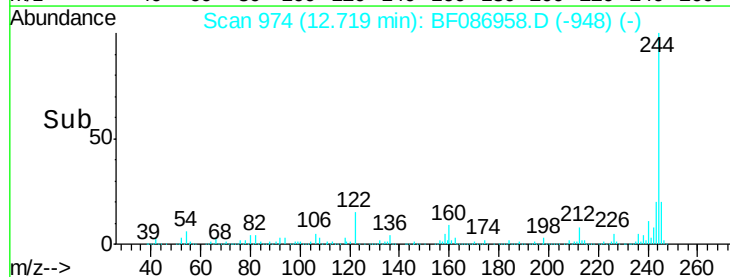
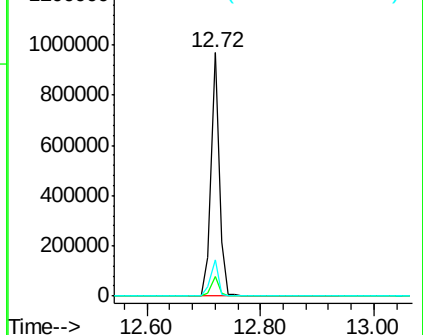
122 14.7 12.0 18.0

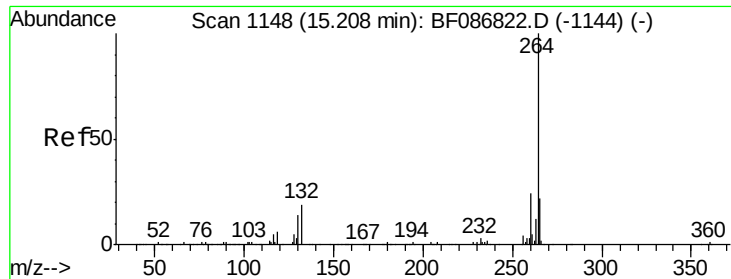


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.12 min Scan# 1184  
Delta R.T. 0.00 min  
Lab File: BF086958.D  
Acq: 13 May 2016 6:43

Instrument :  
BNA\_F  
ClientSampleId :  
PM-STA-1343-28.39(0-4)

Tgt Ion: 264 Resp: 259658  
Ion Ratio Lower Upper  
264 100  
260 24.8 19.5 29.3  
265 21.7 17.3 25.9

