

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
 Data File : BF086959.D  
 Acq On : 13 May 2016 7:12  
 Operator : UM/SJ  
 Sample : H2994-14  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PM-STA-1335-00(0-3)

Quant Time: May 13 07:59:57 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

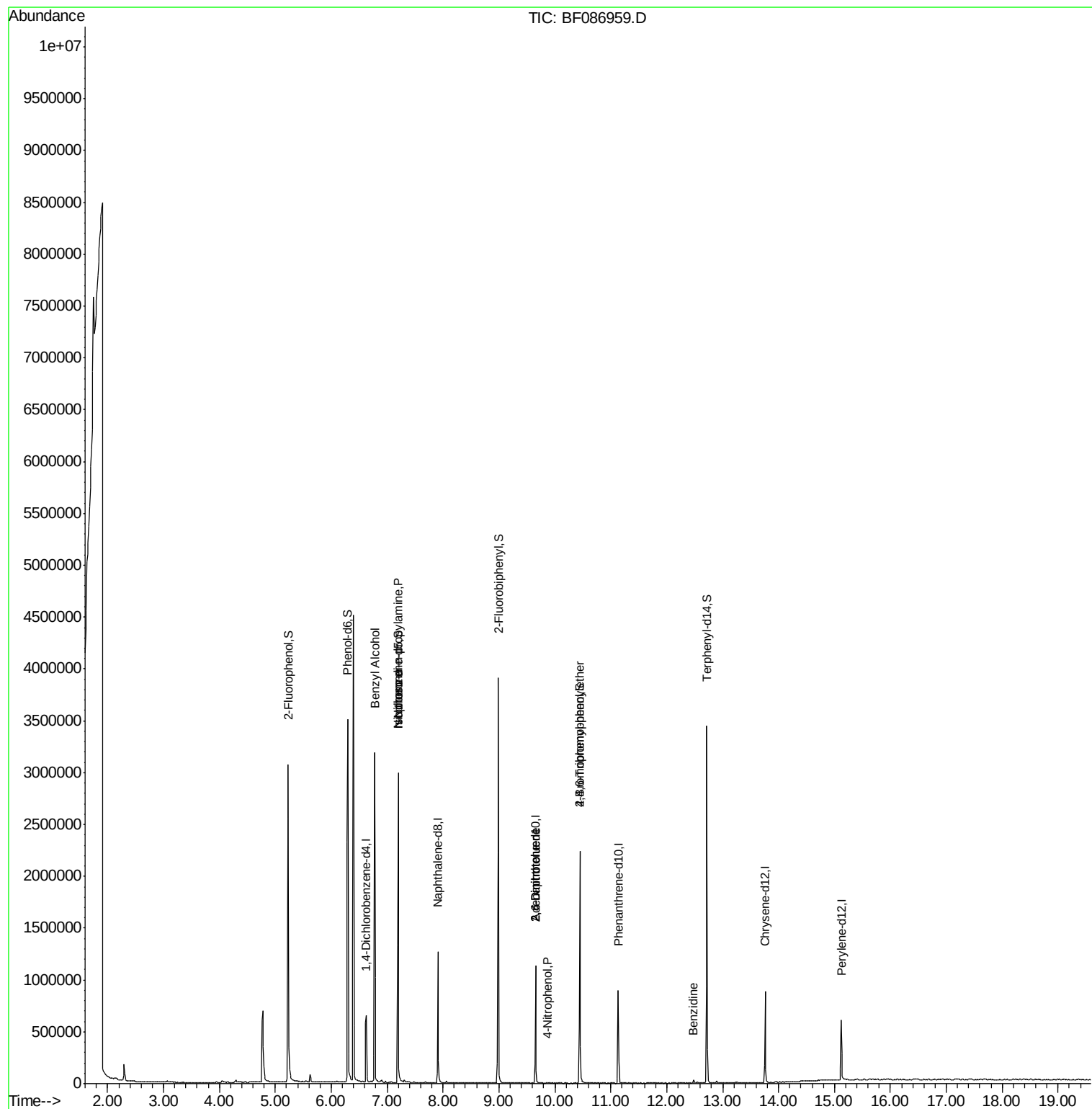
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.63  | 152  | 128339   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.91  | 136  | 506229   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.66  | 164  | 204319   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.13 | 188  | 316358   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.76 | 240  | 295906   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.12 | 264  | 243193   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.23  | 112  | 1071462  | 141.39 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.30  | 99   | 1375183  | 135.78 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.20  | 82   | 971656   | 96.38  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.44 | 330  | 240192   | 111.04 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 8.99  | 172  | 1426701  | 117.36 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.72 | 244  | 989462   | 70.95  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 6.78  | 79   | 15562    | 2.23   | ng    | # 41     |
| 19) n-Nitroso-di-n-propylamine | 7.20  | 70   | 140620   | 19.87  | ng    | # 74     |
| 25) Isophorone                 | 7.20  | 82   | 946648   | 50.61  | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 9.66  | 165  | 26117    | 7.96   | ng    | # 20     |
| 55) 4-Nitrophenol              | 9.86  | 139  | 252      | 4.66   | ng    | # 14     |
| 56) 2,4-Dinitrotoluene         | 9.66  | 165  | 26117    | 6.43   | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 10.44 | 248  | 14954    | 4.66   | ng    | # 1      |
| 76) Benzidine                  | 12.48 | 184  | 22824    | 3.03   | ng    | 97       |

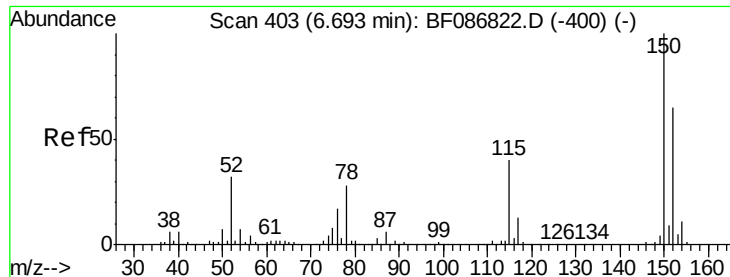
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BF086959.D

Acq: 13 May 2016 7:12

Instrument :

BNA\_F

ClientSampleId :

PM-STA-1335-00(0-3)

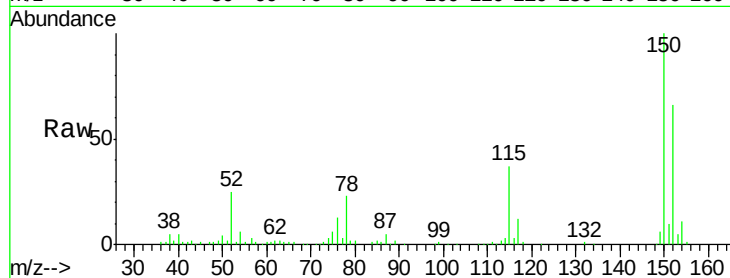
Tgt Ion:152 Resp: 128339

Ion Ratio Lower Upper

152 100

150 152.3 125.8 188.6

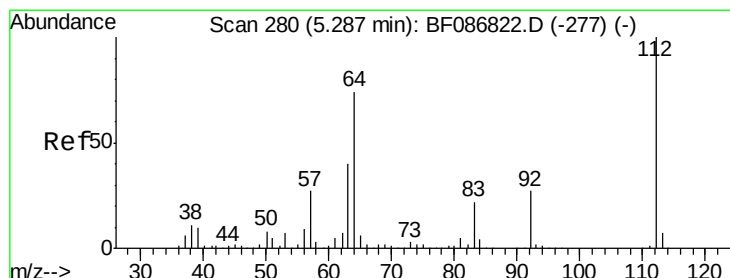
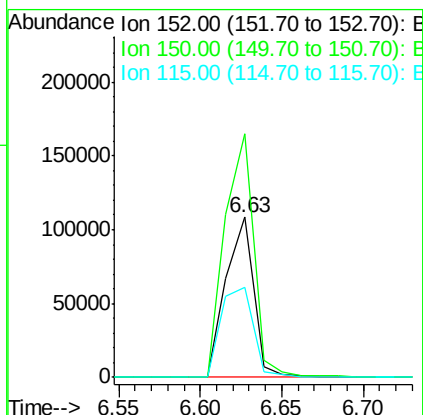
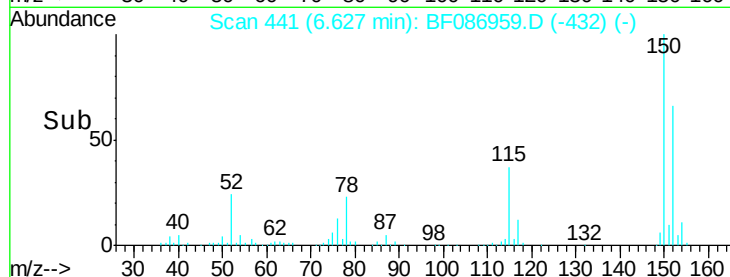
115 56.0 51.5 77.3



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: 141.39 ng

RT: 5.23 min Scan# 319

Delta R.T. 0.02 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

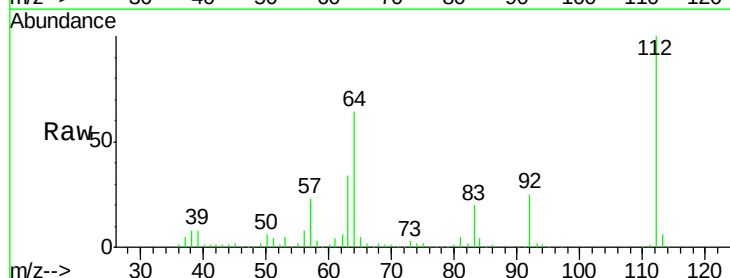
Tgt Ion:112 Resp: 1071462

Ion Ratio Lower Upper

112 100

64 63.7 52.1 78.1

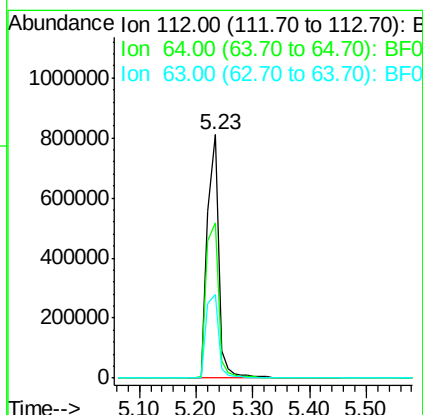
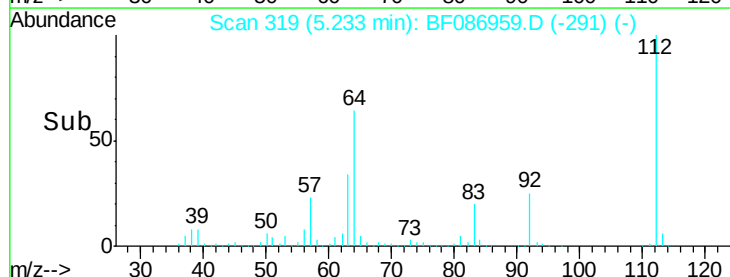
63 34.4 25.7 38.5

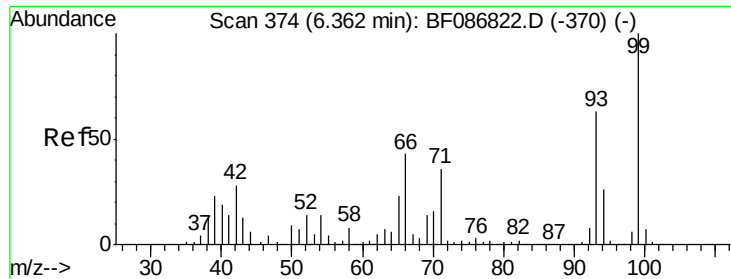


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 135.78 ng

RT: 6.30 min Scan# 412

Delta R.T. 0.00 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

Instrument :

BNA\_F

ClientSampleId :

PM-STA-1335-00(0-3)

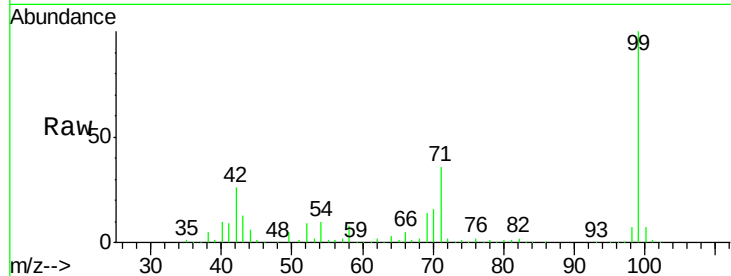
Tgt Ion: 99 Resp: 1375183

Ion Ratio Lower Upper

99 100

42 25.7 13.6 20.4#

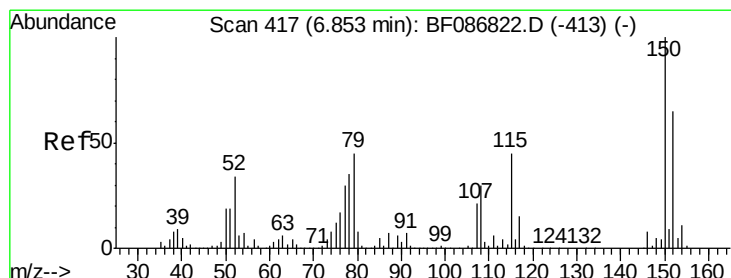
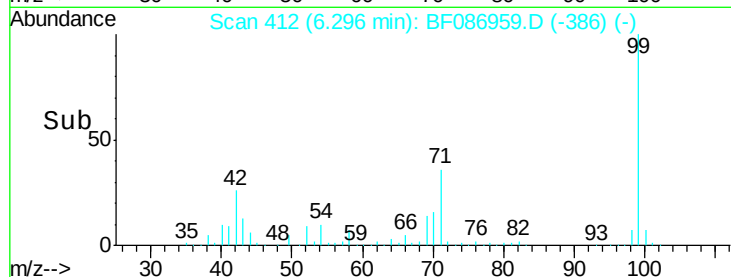
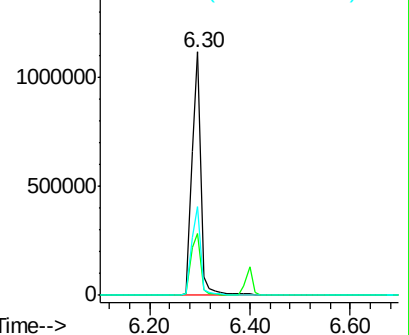
71 36.2 24.6 36.8



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



#15

Benzyl Alcohol

Concen: 2.23 ng

RT: 6.78 min Scan# 454

Delta R.T. -0.01 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

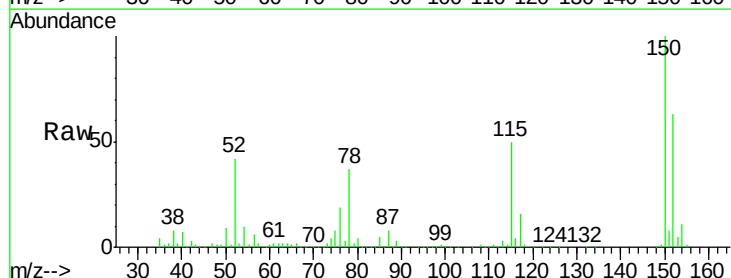
Tgt Ion: 79 Resp: 15562

Ion Ratio Lower Upper

79 100

108 28.8 68.4 102.6#

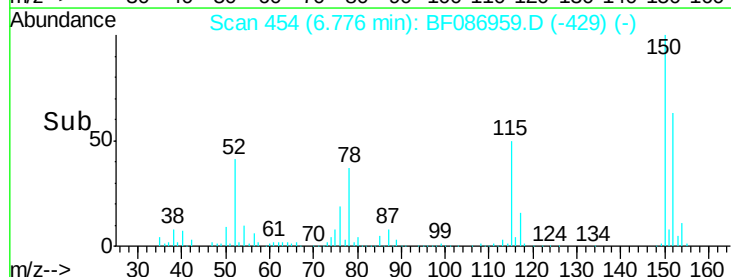
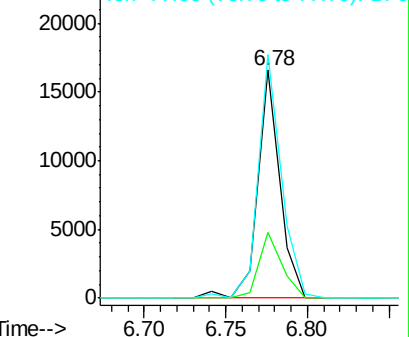
77 106.9 50.6 76.0#

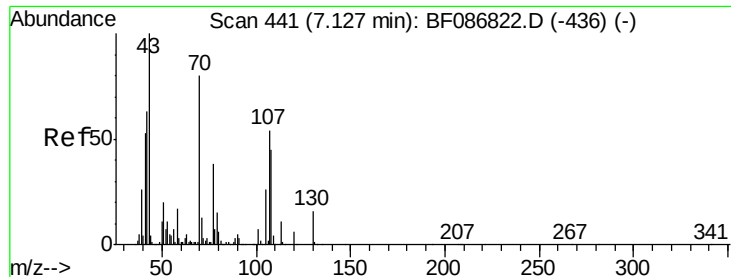


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

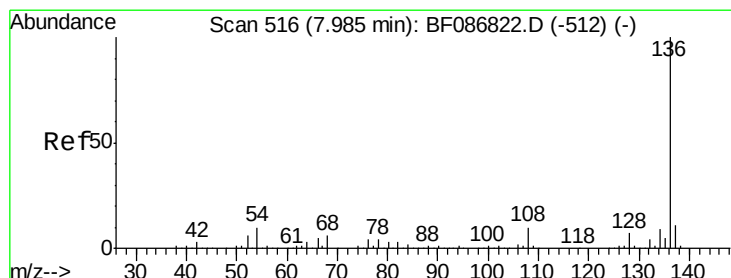
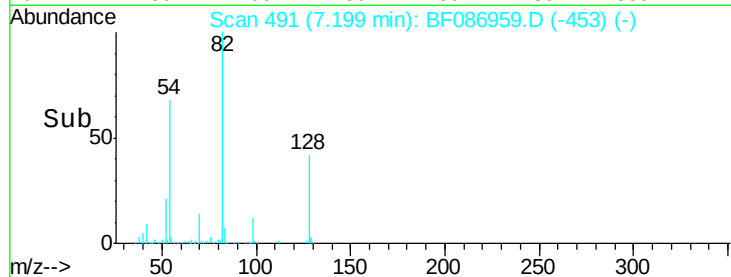
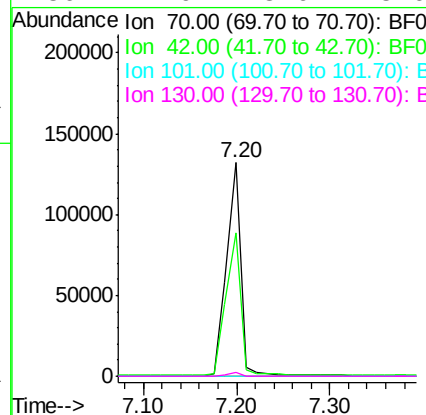
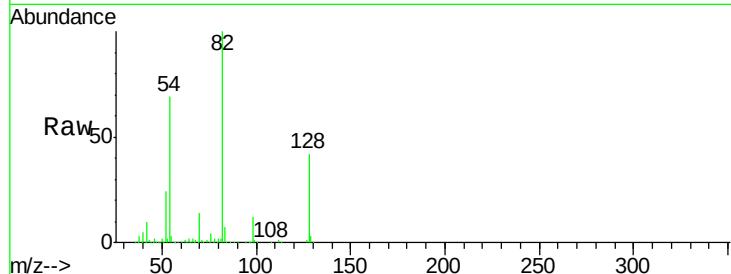




#19  
n-Nitroso-di-n-propylamine  
Concen: 19.87 ng  
RT: 7.20 min Scan# 491  
Delta R.T. 0.14 min  
Lab File: BF086959.D  
Acq: 13 May 2016 7:12

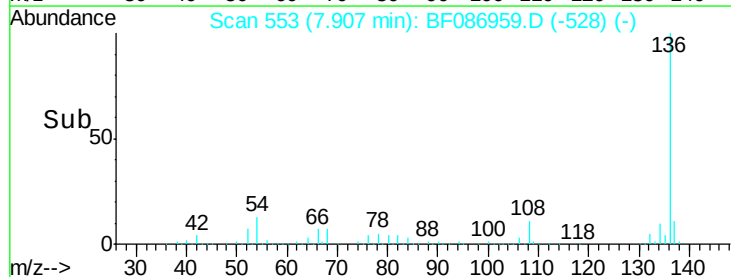
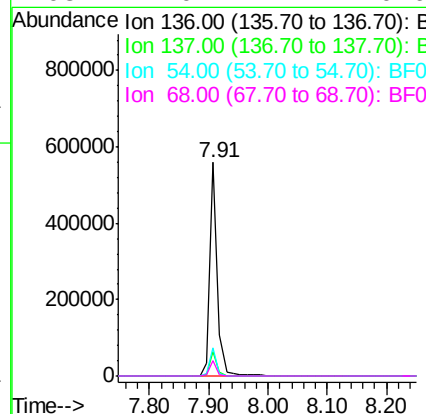
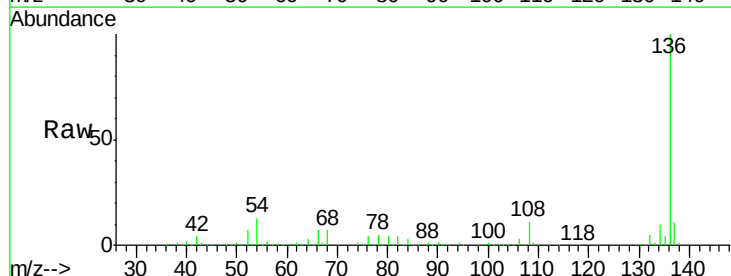
Instrument :  
BNA\_F  
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PM-STA-1335-00(0-3)

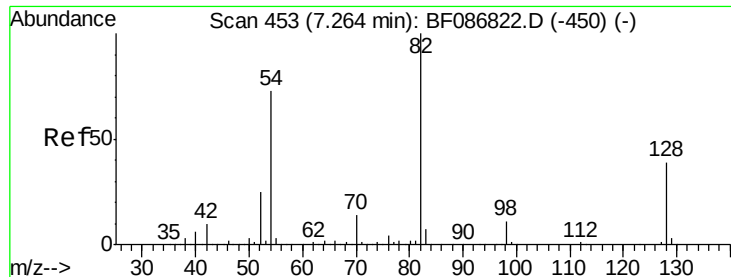
Tgt Ion: 70 Resp: 140620  
Ion Ratio Lower Upper  
70 100  
42 67.0 43.1 64.7#  
101 0.0 8.1 12.1#  
130 1.9 18.6 28.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.91 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF086959.D  
Acq: 13 May 2016 7:12

Tgt Ion: 136 Resp: 506229  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.8 13.2  
54 13.3 5.0 7.4#  
68 7.0 4.4 6.6#





#23

Nitrobenzene-d5

Concen: 96.38 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.01 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

Instrument :

BNA\_F

ClientSampleId :

PM-STA-1335-00(0-3)

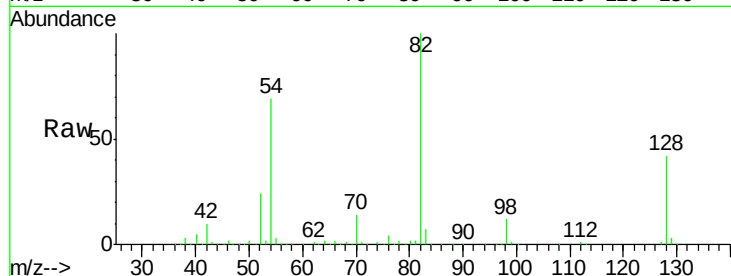
Tgt Ion: 82 Resp: 971656

Ion Ratio Lower Upper

82 100

128 41.6 40.6 61.0

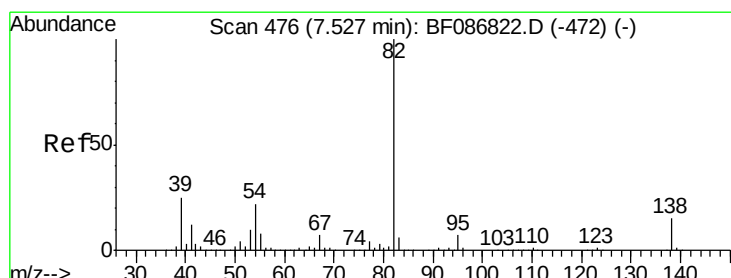
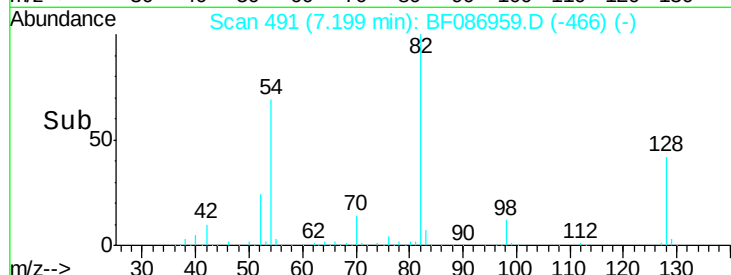
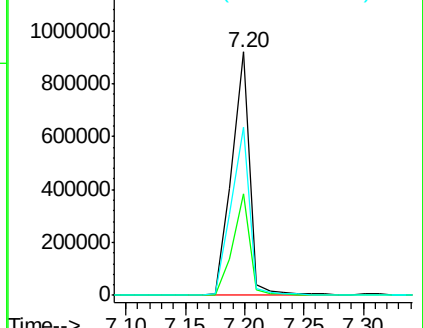
54 69.1 38.1 57.1#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 50.61 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.26 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

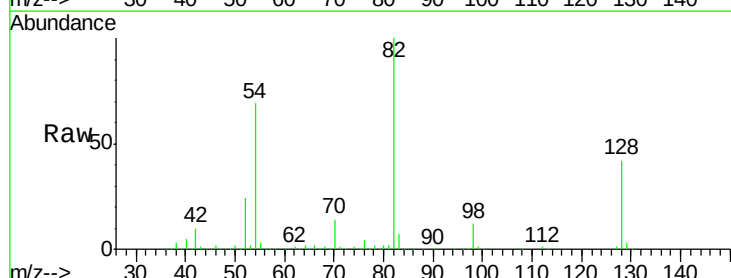
Tgt Ion: 82 Resp: 946648

Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

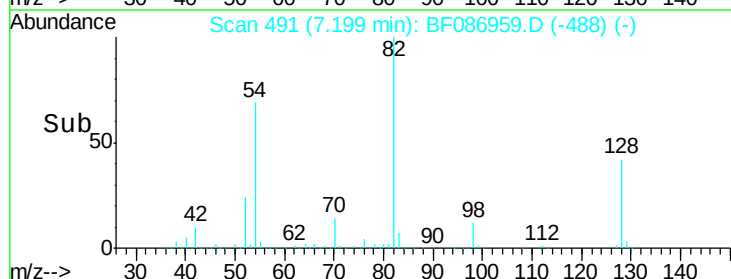
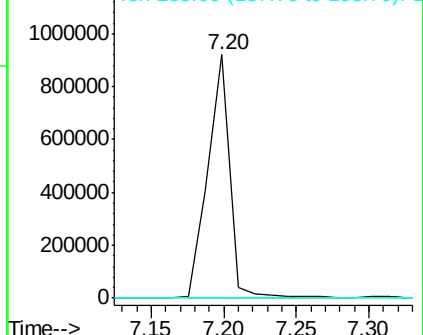
138 0.0 12.4 18.6#

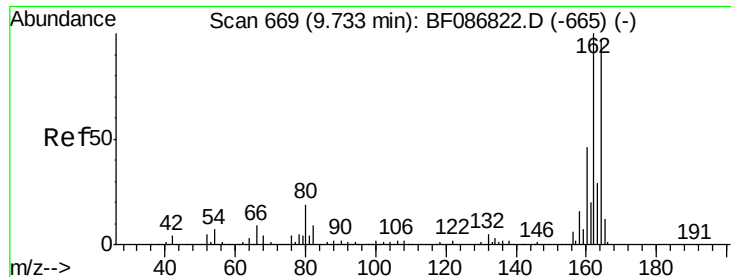


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.01 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

Instrument :

BNA\_F

ClientSampleId :

PM-STA-1335-00(0-3)

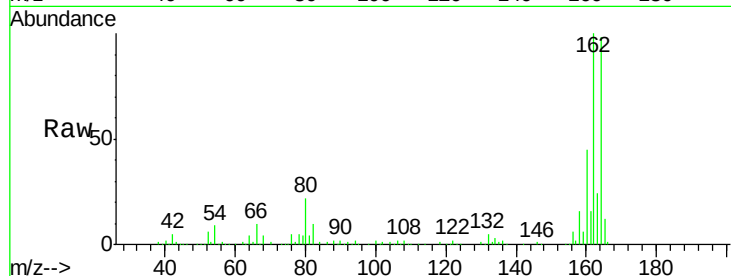
Tgt Ion:164 Resp: 204319

Ion Ratio Lower Upper

164 100

162 102.0 82.8 124.2

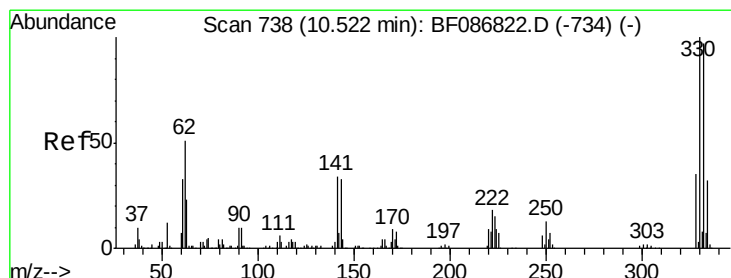
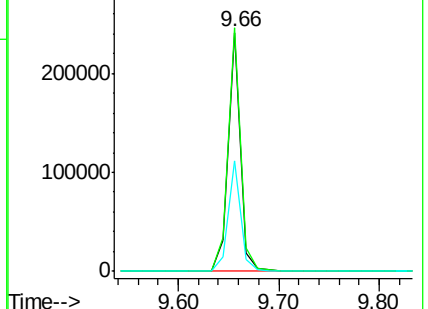
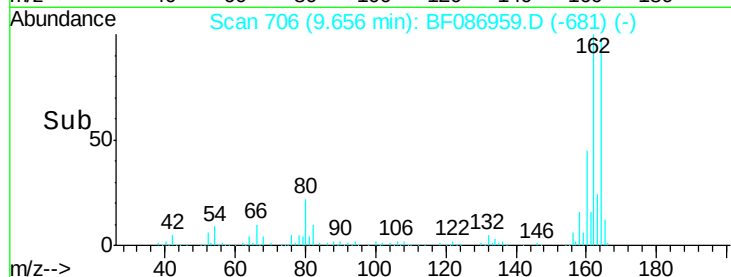
160 46.3 36.9 55.3



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: 111.04 ng

RT: 10.44 min Scan# 775

Delta R.T. -0.01 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

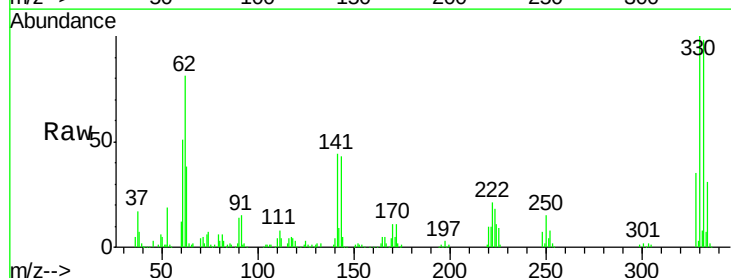
Tgt Ion:330 Resp: 240192

Ion Ratio Lower Upper

330 100

332 98.5 79.0 118.4

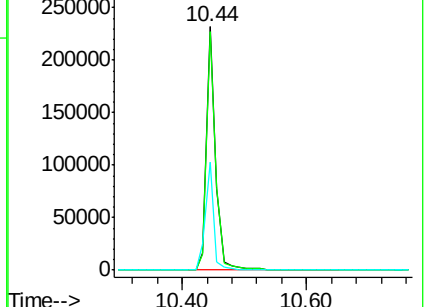
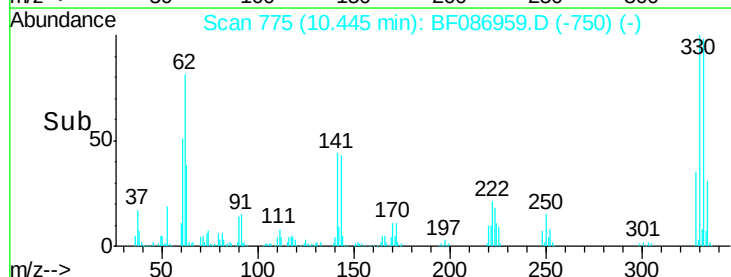
141 40.8 31.2 46.8

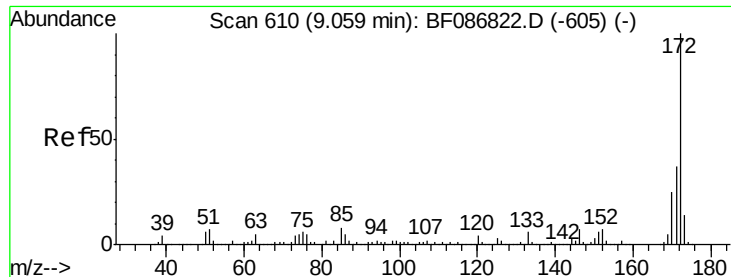


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

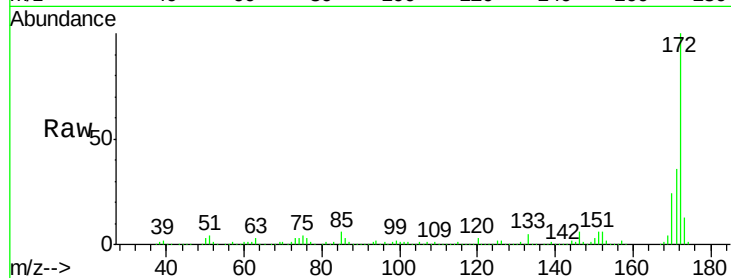




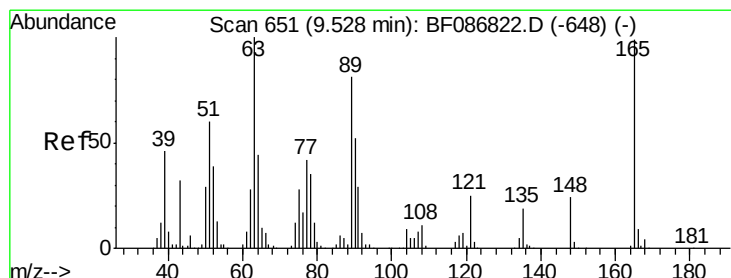
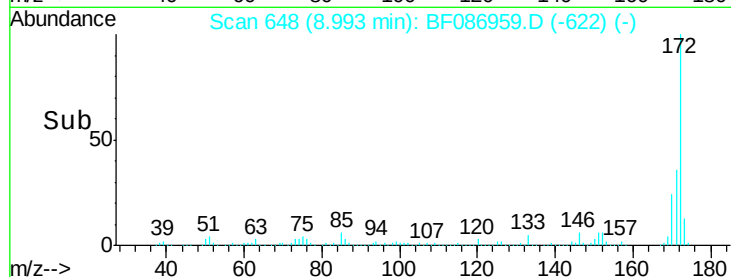
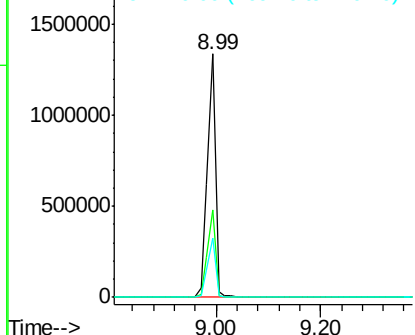
#44  
 2-Fluorobiphenyl  
 Concen: 117.36 ng  
 RT: 8.99 min Scan# 648  
 Delta R.T. 0.00 min  
 Lab File: BF086959.D  
 Acq: 13 May 2016 7:12

Instrument :  
 BNA\_F  
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 PM-STA-1335-00(0-3)

Tgt Ion:172 Resp: 1426701  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.0 43.6  
 170 24.4 19.8 29.8

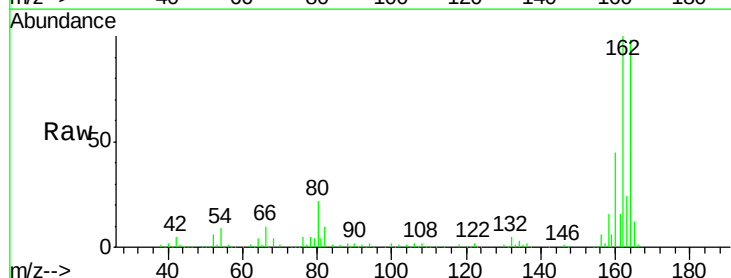


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

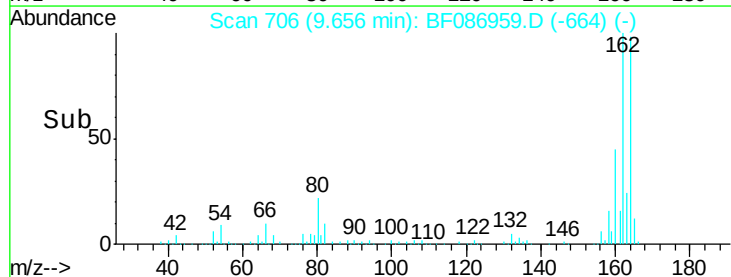
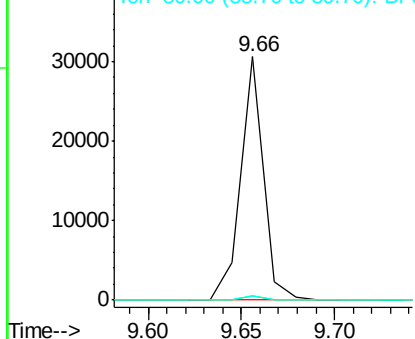


#50  
 2,6-Dinitrotoluene  
 Concen: 7.96 ng  
 RT: 9.66 min Scan# 706  
 Delta R.T. 0.18 min  
 Lab File: BF086959.D  
 Acq: 13 May 2016 7:12

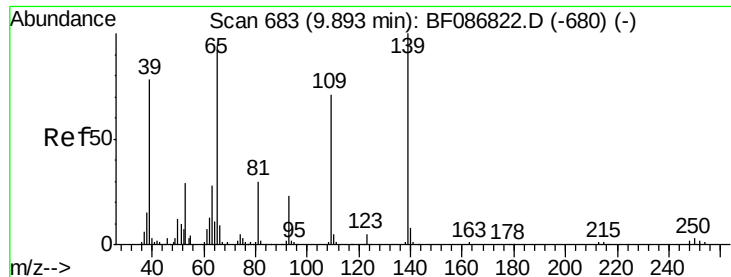
Tgt Ion:165 Resp: 26117  
 Ion Ratio Lower Upper  
 165 100  
 63 1.6 51.8 77.8#  
 89 1.6 50.7 76.1#



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







#55

4-Nitrophenol

Concen: 4.66 ng

RT: 9.86 min Scan# 724

Delta R.T. 0.03 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

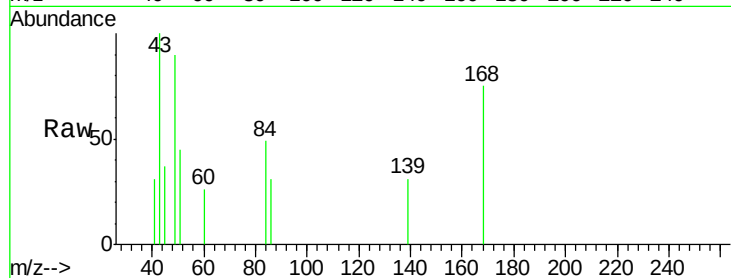
Instrument :

BNA\_F

ClientSampleId :

PM-STA-1335-00(0-3)

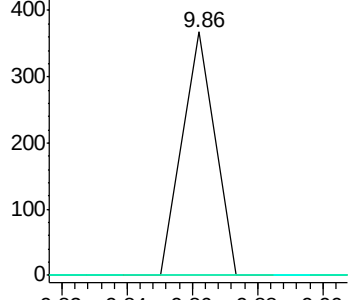
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 139   | Resp: | 252    |
| Ion      | Ratio | Lower | Upper  |
| 139      | 100   |       |        |
| 109      | 0.0   | 36.9  | 76.9#  |
| 65       | 0.0   | 64.0  | 104.0# |



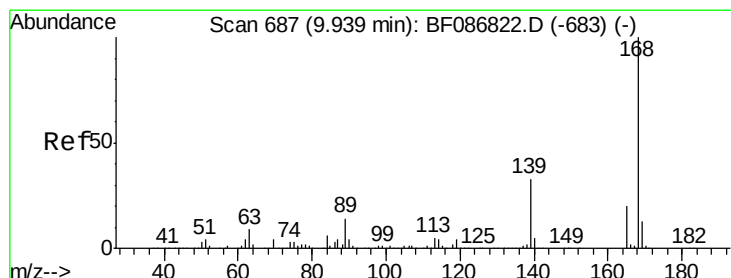
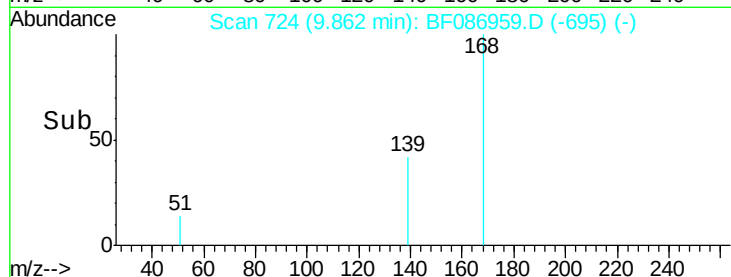
Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



Time-->



#56

2,4-Dinitrotoluene

Concen: 6.43 ng

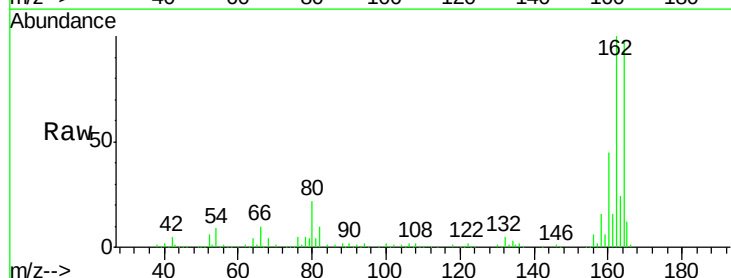
RT: 9.66 min Scan# 706

Delta R.T. -0.22 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 165   | Resp: | 26117  |
| Ion      | Ratio | Lower | Upper  |
| 165      | 100   |       |        |
| 63       | 1.6   | 44.3  | 66.5#  |
| 89       | 1.6   | 70.0  | 105.0# |
| 182      | 0.0   | 1.8   | 2.6#   |

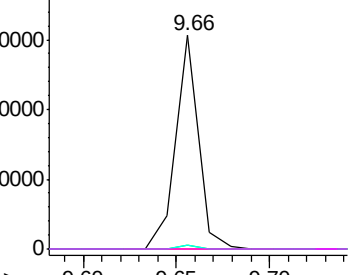


Abundance Ion 165.00 (164.70 to 165.70): E

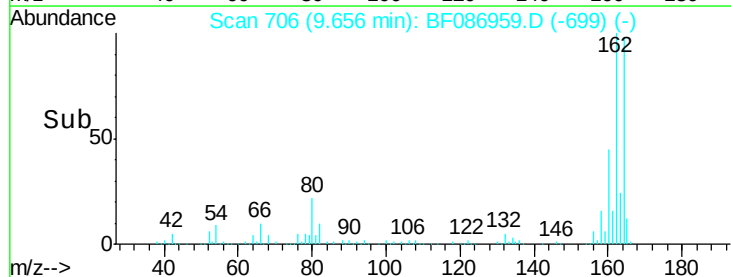
Ion 63.00 (62.70 to 63.70): BF0

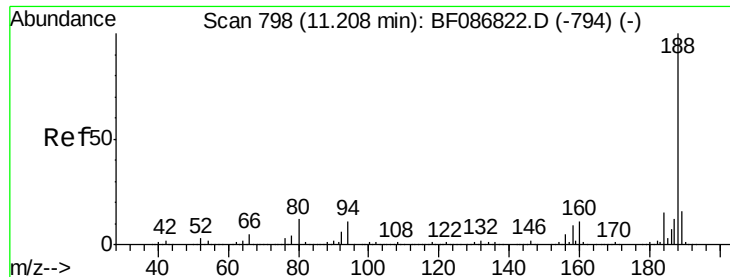
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



Time-->

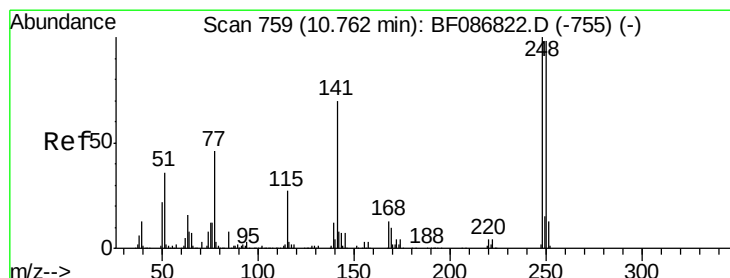
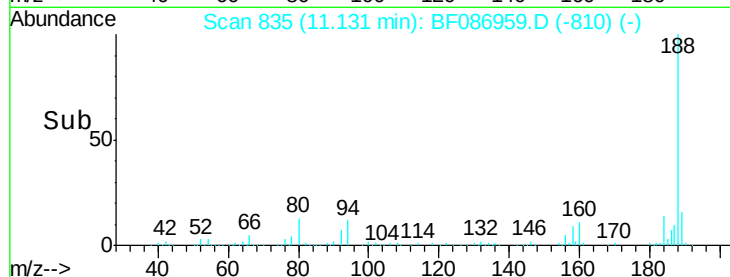
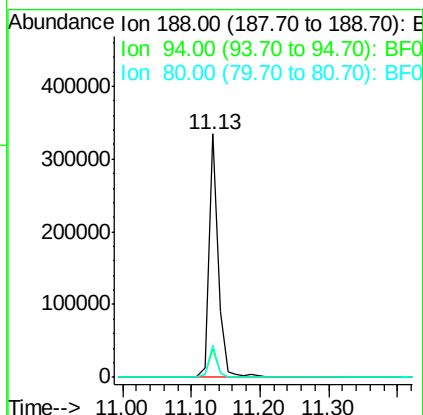
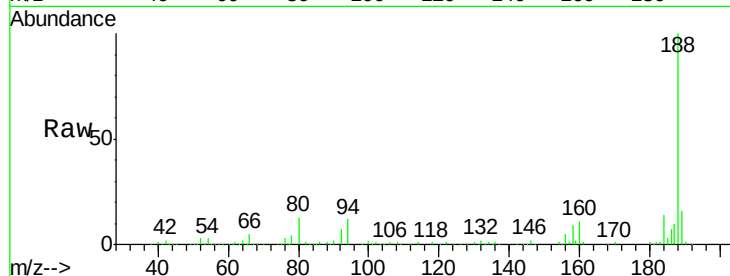




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.13 min Scan# 835  
Delta R.T. -0.01 min  
Lab File: BF086959.D  
Acq: 13 May 2016 7:12

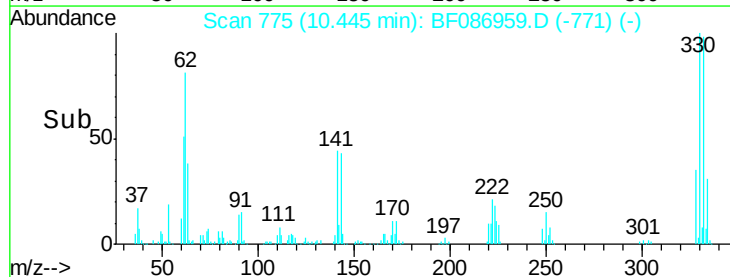
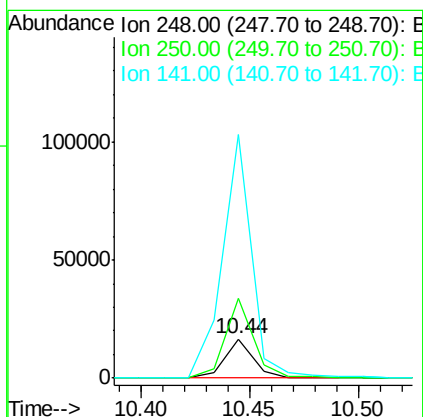
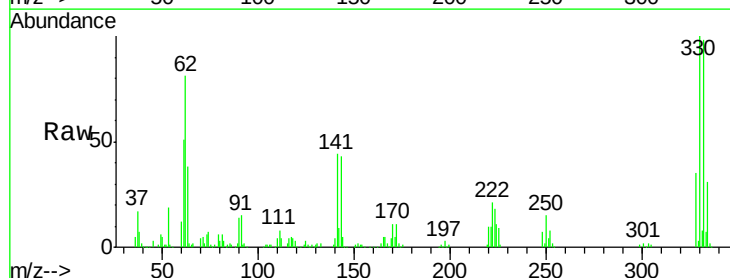
Instrument :  
BNA\_F  
ClientSampleId :  
PM-STA-1335-00(0-3)

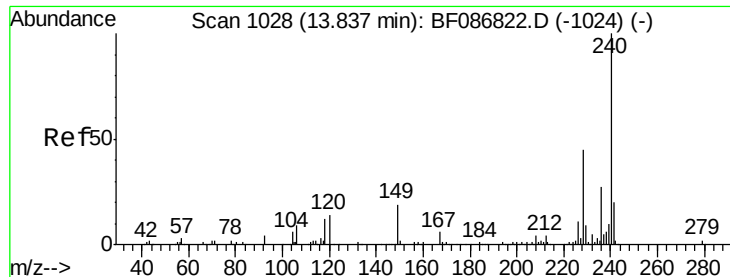
Tgt Ion:188 Resp: 316358  
Ion Ratio Lower Upper  
188 100  
94 11.8 6.8 10.2#  
80 13.3 7.1 10.7#



#66  
4-Bromophenyl-phenylether  
Concen: 4.66 ng  
RT: 10.44 min Scan# 775  
Delta R.T. -0.25 min  
Lab File: BF086959.D  
Acq: 13 May 2016 7:12

Tgt Ion:248 Resp: 14954  
Ion Ratio Lower Upper  
248 100  
250 206.1 78.6 117.8#  
141 625.5 76.0 114.0#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.01 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

Instrument :

BNA\_F

ClientSampleId :

PM-STA-1335-00(0-3)

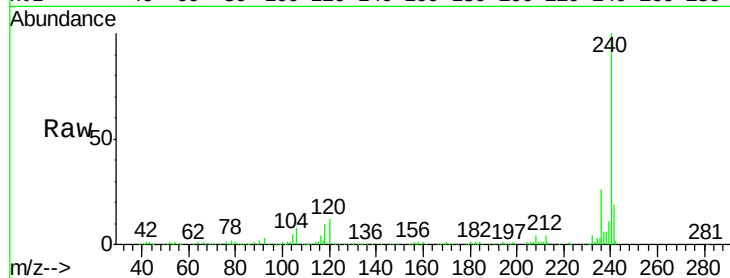
Tgt Ion:240 Resp: 295906

Ion Ratio Lower Upper

240 100

120 11.9 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

13.76

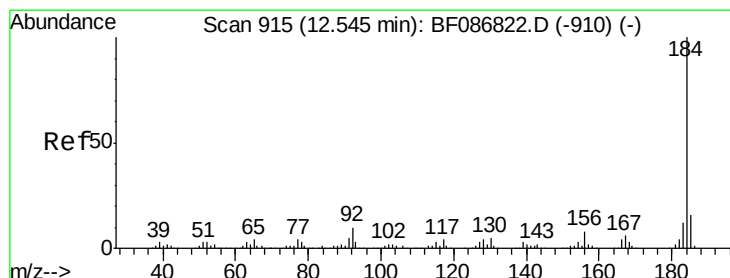
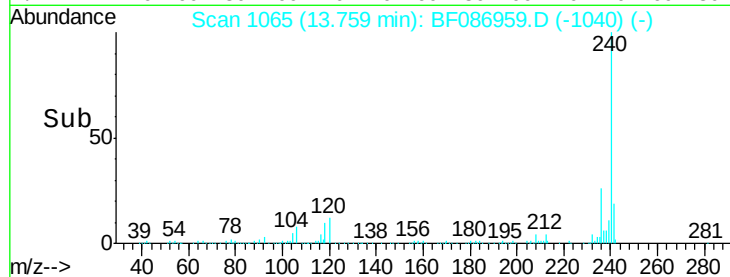
300000

200000

100000

0

Time-->



#76

Benzidine

Concen: 3.03 ng

RT: 12.48 min Scan# 953

Delta R.T. 0.00 min

Lab File: BF086959.D

Acq: 13 May 2016 7:12

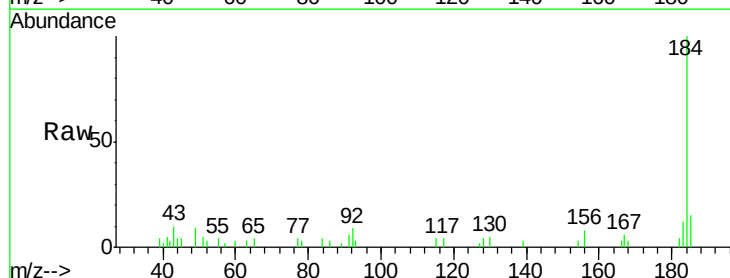
Tgt Ion:184 Resp: 22824

Ion Ratio Lower Upper

184 100

185 14.9 13.6 20.4

183 12.3 9.8 14.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

20000

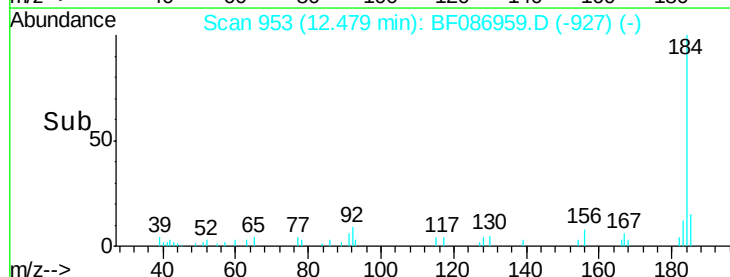
15000

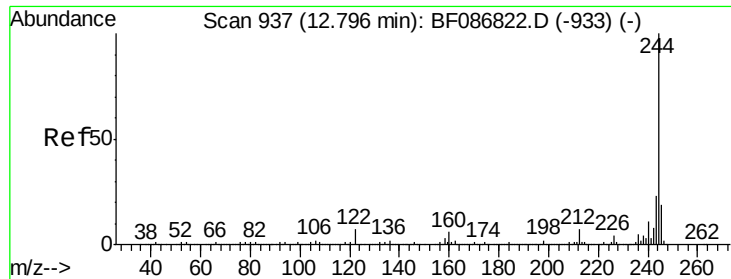
10000

5000

0

Time-->

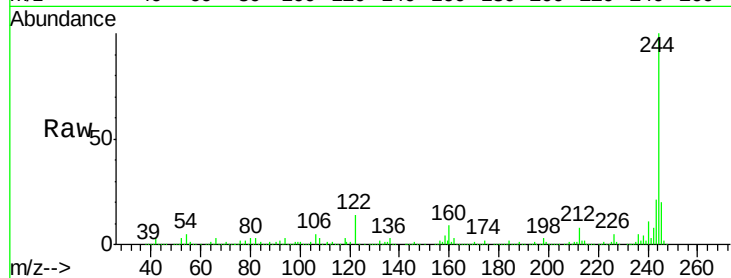




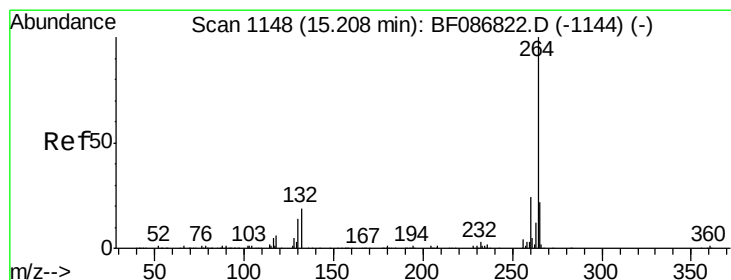
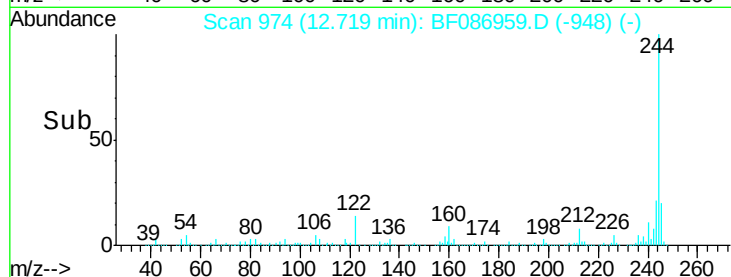
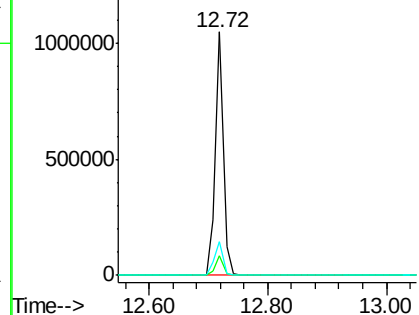
#78  
 Terphenyl-d14  
 Concen: 70.95 ng  
 RT: 12.72 min Scan# 974  
 Delta R.T. 0.00 min  
 Lab File: BF086959.D  
 Acq: 13 May 2016 7:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PM-STA-1335-00(0-3)

Tgt Ion:244 Resp: 989462  
 Ion Ratio Lower Upper  
 244 100  
 212 8.1 6.2 9.2  
 122 13.7 12.0 18.0

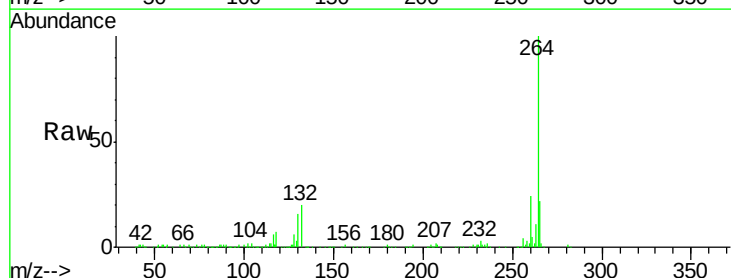


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.12 min Scan# 1184  
 Delta R.T. 0.00 min  
 Lab File: BF086959.D  
 Acq: 13 May 2016 7:12

Tgt Ion:264 Resp: 243193  
 Ion Ratio Lower Upper  
 264 100  
 260 23.9 19.5 29.3  
 265 21.6 17.3 25.9



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

