

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040716\  
 Data File : BF086149.D  
 Acq On : 8 Apr 2016 00:23  
 Operator : UM/SJ  
 Sample : H2282-08  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AMBOY-SB-16(0.5-20.0)

Quant Time: Apr 08 01:45:14 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 01 23:17:06 2016  
 Response via : Initial Calibration

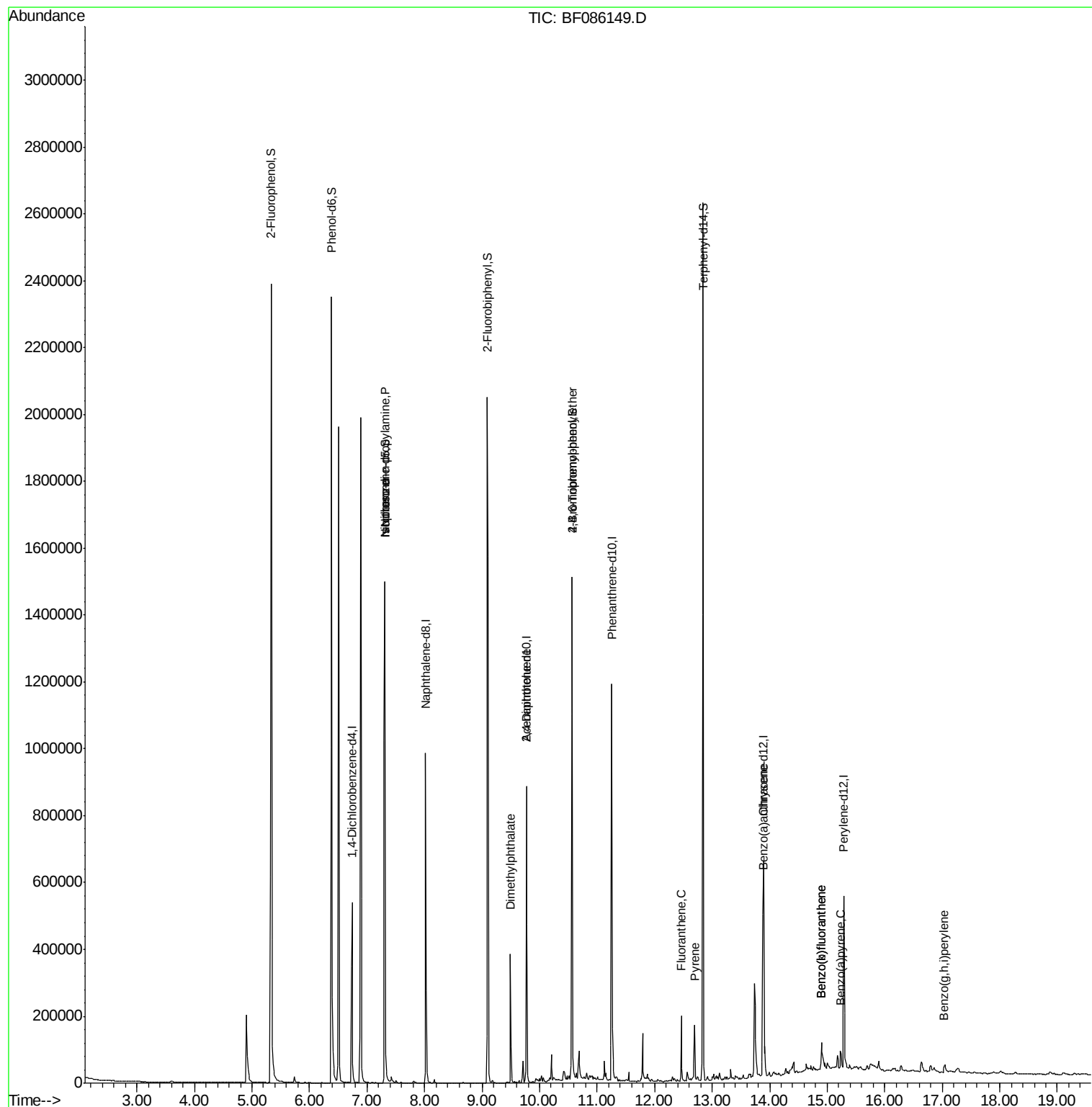
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.74  | 152  | 112326   | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 8.02  | 136  | 467270   | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.77  | 164  | 203035   | 20.00  | ng    | -0.05    |
| 63) Phenanthrene-d10           | 11.25 | 188  | 397302   | 20.00  | ng    | -0.05    |
| 75) Chrysene-d12               | 13.89 | 240  | 262010   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 15.29 | 264  | 210839   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.33  | 112  | 785440   | 119.52 | ng    | -0.03    |
| 7) Phenol-d6                   | 6.38  | 99   | 1012799  | 121.34 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.31  | 82   | 673199   | 84.96  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.57 | 330  | 273963   | 143.76 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 916966   | 75.09  | ng    | -0.05    |
| 78) Terphenyl-d14              | 12.84 | 244  | 941217   | 84.44  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.31  | 70   | 87341    | 16.88  | ng    | # 74     |
| 25) Isophorone                 | 7.31  | 82   | 670085   | 42.84  | ng    | # 68     |
| 49) Dimethylphthalate          | 9.49  | 163  | 157538   | 10.47  | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.77  | 165  | 26061    | 6.48   | ng    | # 37     |
| 66) 4-Bromophenyl-phenylether  | 10.57 | 248  | 16691    | 4.11   | ng    | # 1      |
| 74) Fluoranthene               | 12.46 | 202  | 77659    | 3.44   | ng    | 95       |
| 77) Pyrene                     | 12.69 | 202  | 68808    | 3.73   | ng    | 98       |
| 80) Benzo(a)anthracene         | 13.88 | 228  | 42105    | 2.73   | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 14.90 | 252  | 53775    | 4.05   | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 14.90 | 252  | 53775    | 4.58   | ng    | # 94     |
| 89) Benzo(a)pyrene             | 15.23 | 252  | 28948    | 2.46   | ng    | # 93     |
| 91) Benzo(g,h,i)perylene       | 17.04 | 276  | 19694    | 2.15   | ng    | 97       |

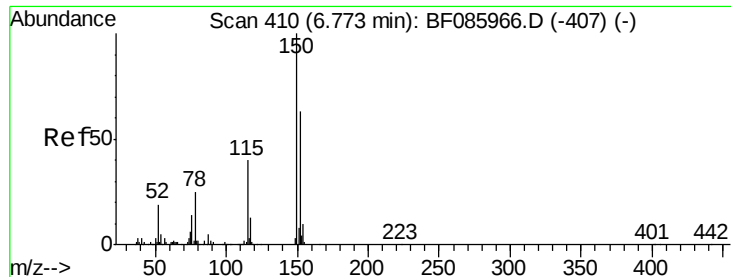
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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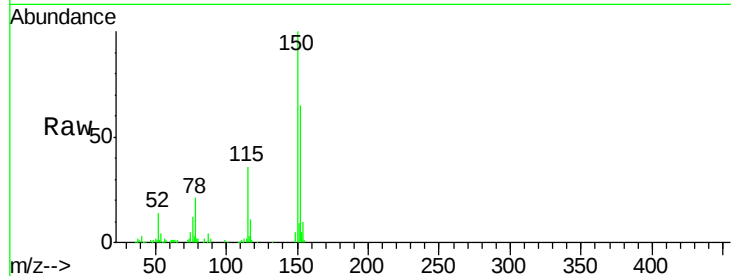


#1

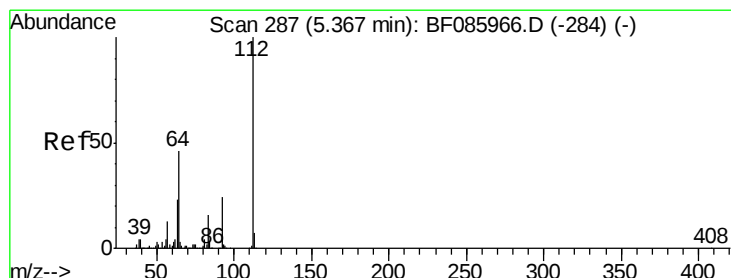
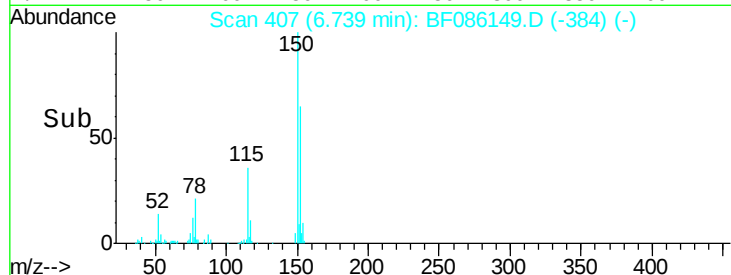
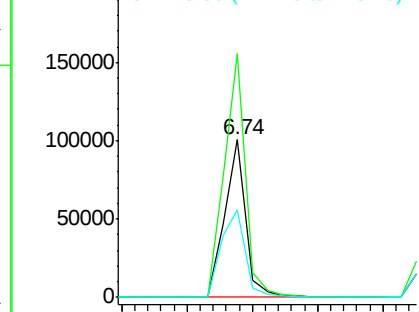
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.74 min Scan# 407  
Delta R.T. -0.03 min  
Lab File: BF086149.D  
Acq: 8 Apr 2016 00:23

Instrument :  
BNA\_F  
ClientSampleId :  
AMBOY-SB-16(0.5-20.0)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.5 | 124.2 | 186.2 |
| 115     | 55.4  | 47.0  | 70.6  |



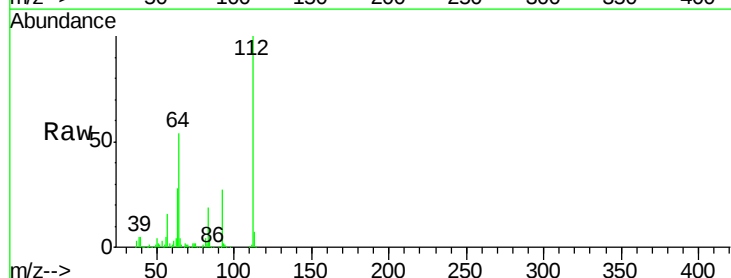
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



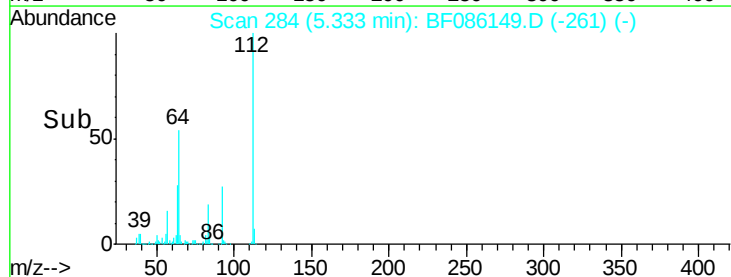
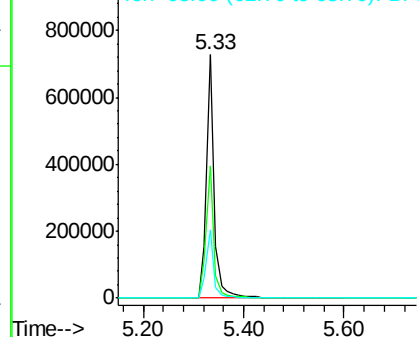
#5

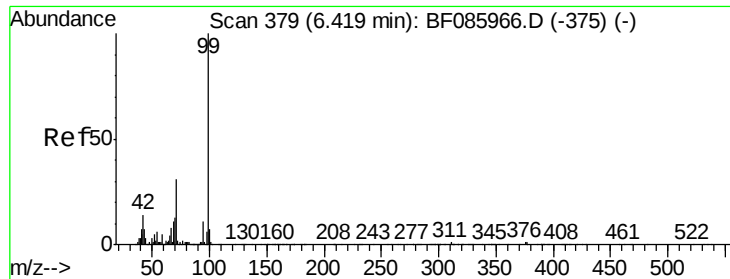
2-Fluorophenol  
Concen: 119.52 ng  
RT: 5.33 min Scan# 284  
Delta R.T. -0.03 min  
Lab File: BF086149.D  
Acq: 8 Apr 2016 00:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.5  | 39.9  | 59.9  |
| 63      | 27.9  | 20.2  | 30.2  |



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: 121.34 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.03 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

Instrument :

BNA\_F

ClientSampleId :

AMBOY-SB-16(0.5-20.0)

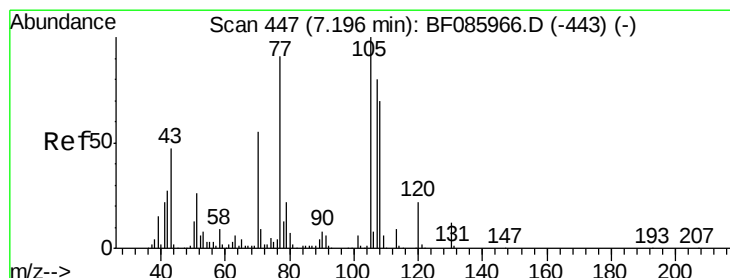
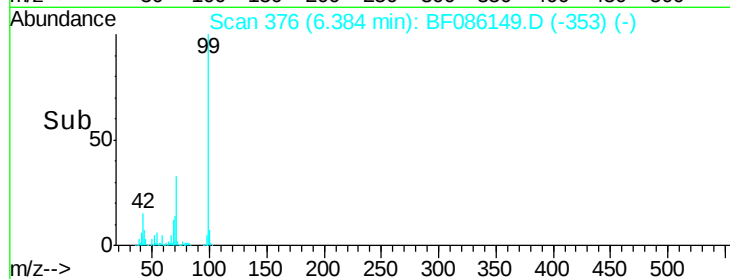
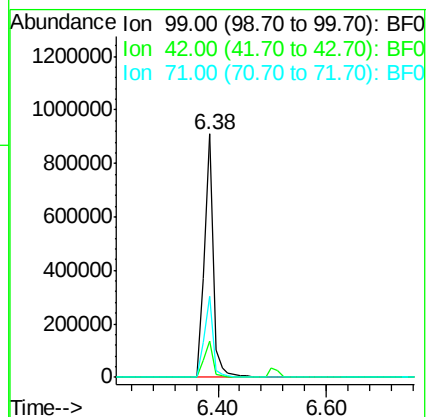
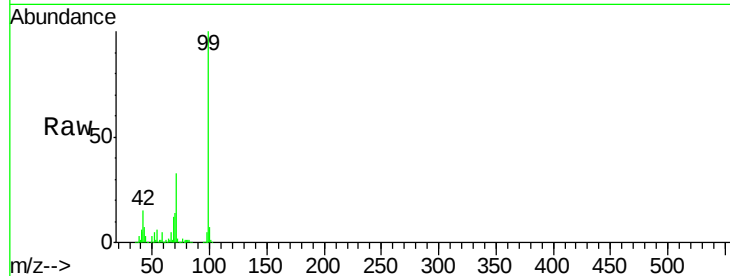
Tgt Ion: 99 Resp: 1012799

Ion Ratio Lower Upper

99 100

42 15.1 11.1 16.7

71 33.4 24.9 37.3



#19

n-Nitroso-di-n-propylamine

Concen: 16.88 ng

RT: 7.31 min Scan# 457

Delta R.T. 0.11 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

Tgt Ion: 70 Resp: 87341

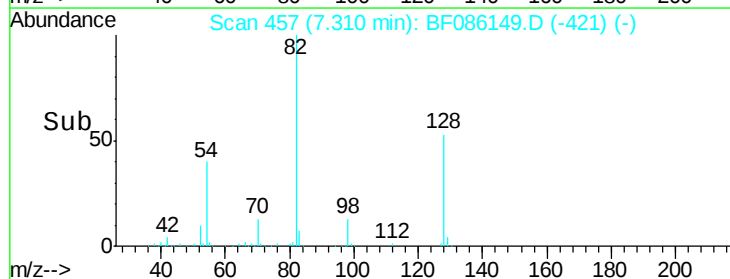
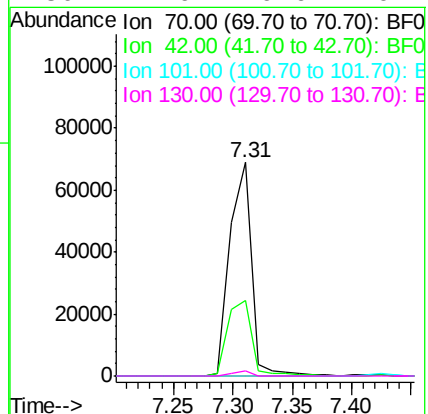
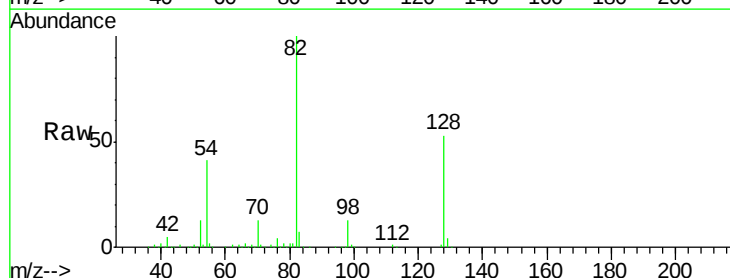
Ion Ratio Lower Upper

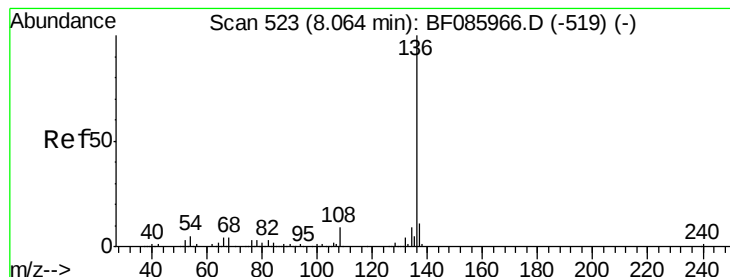
70 100

42 35.5 37.1 55.7#

101 0.0 8.6 12.8#

130 2.6 19.6 29.4#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.02 min Scan# 519

Delta R.T. -0.05 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

Instrument :

BNA\_F

ClientSampleId :

AMBOY-SB-16(0.5-20.0)

Tgt Ion: 136 Resp: 467270

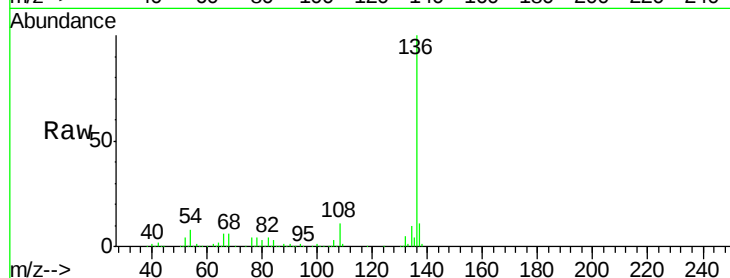
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 7.8 7.4 11.0

68 6.5 5.8 8.8

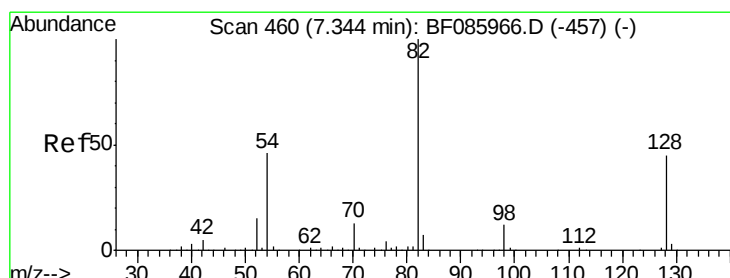
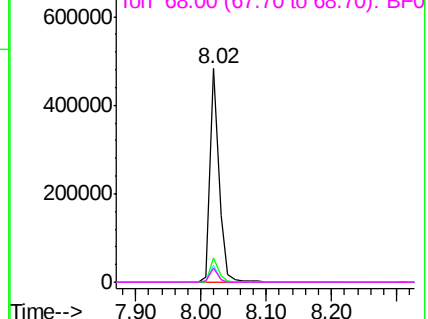
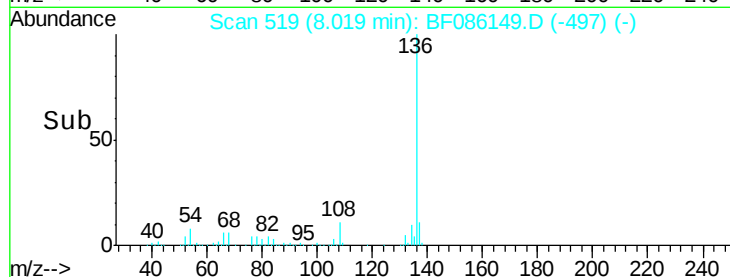


Abundance Ion 136.00 (135.70 to 136.70): E

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: 84.96 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.03 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

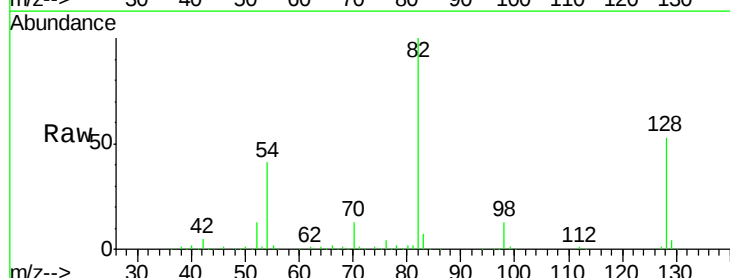
Tgt Ion: 82 Resp: 673199

Ion Ratio Lower Upper

82 100

128 53.0 41.8 62.8

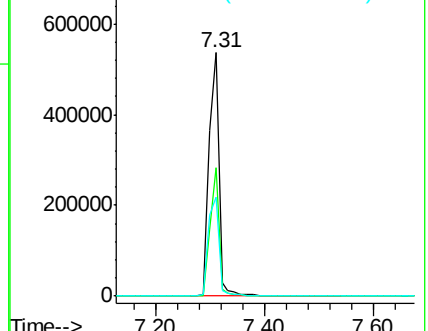
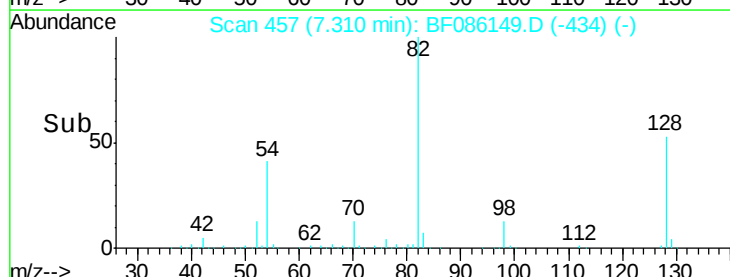
54 40.5 33.4 50.0

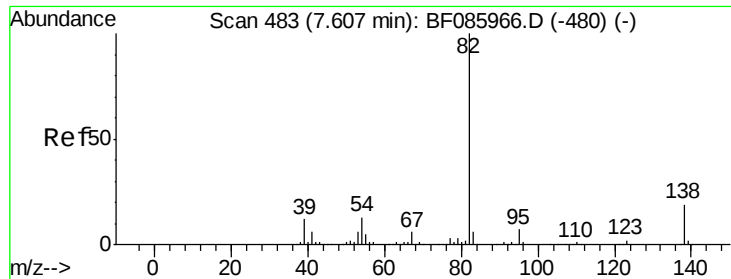


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 42.84 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.30 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

Instrument :

BNA\_F

ClientSampleId :

AMBOY-SB-16(0.5-20.0)

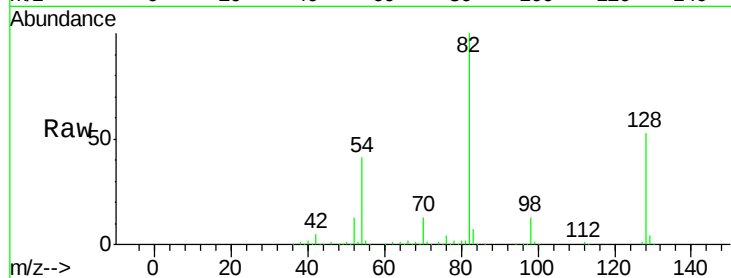
Tgt Ion: 82 Resp: 670085

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

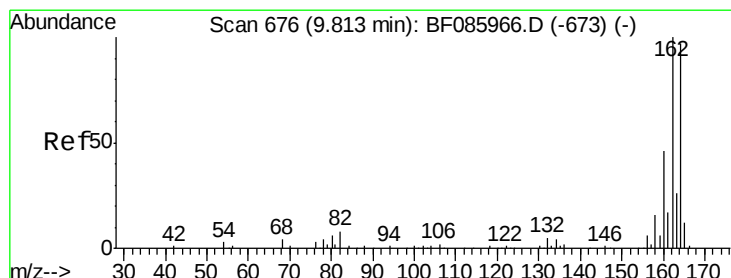
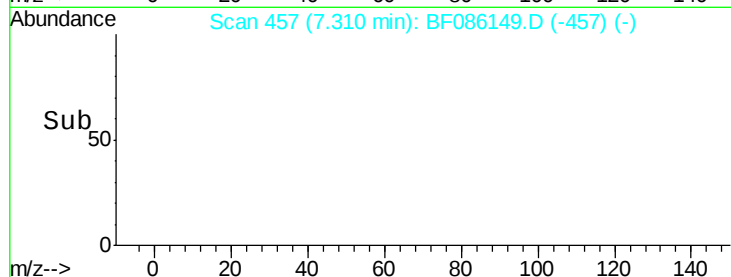
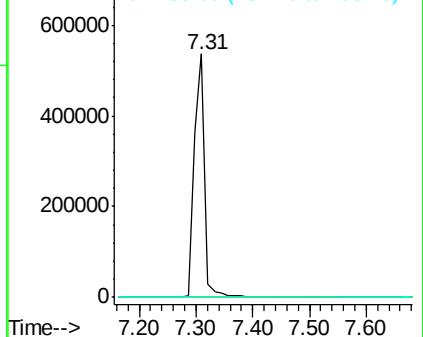
138 0.0 12.9 19.3#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.05 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

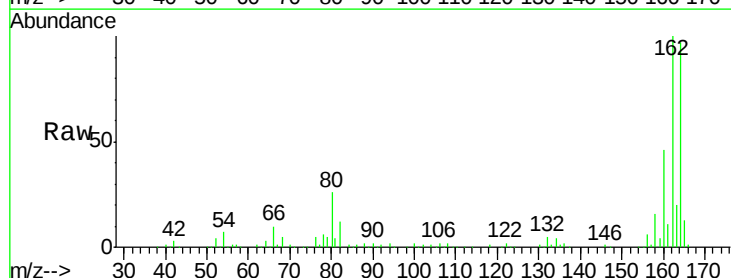
Tgt Ion: 164 Resp: 203035

Ion Ratio Lower Upper

164 100

162 103.0 82.1 123.1

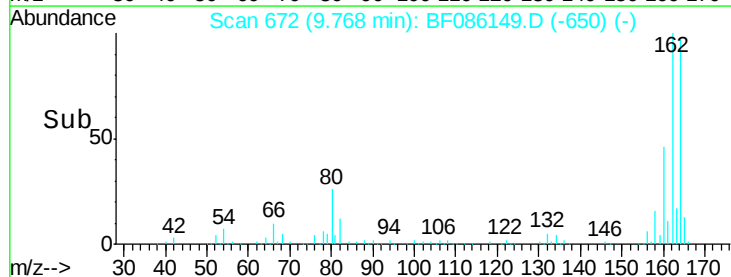
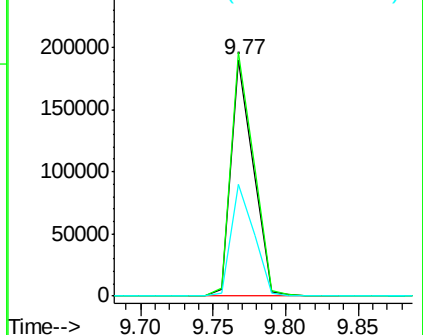
160 47.4 37.4 56.2

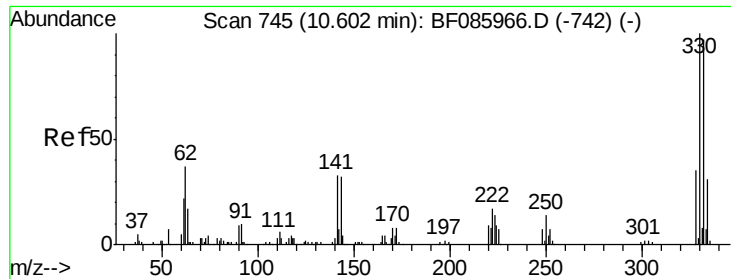


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

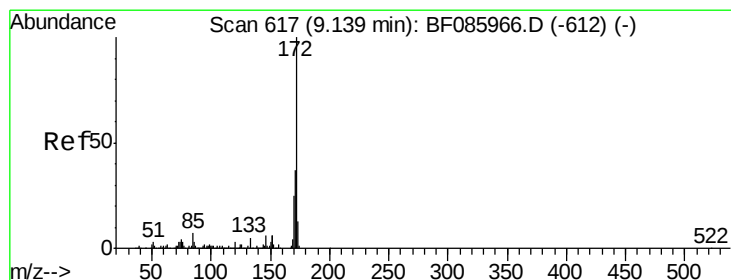
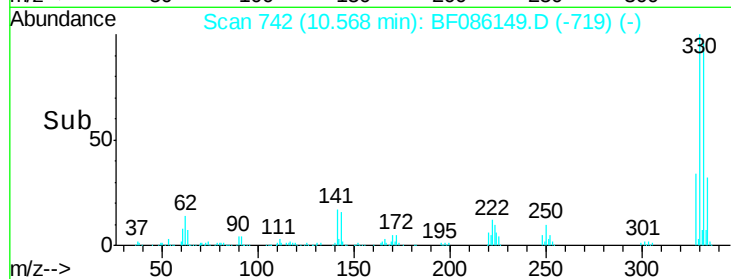
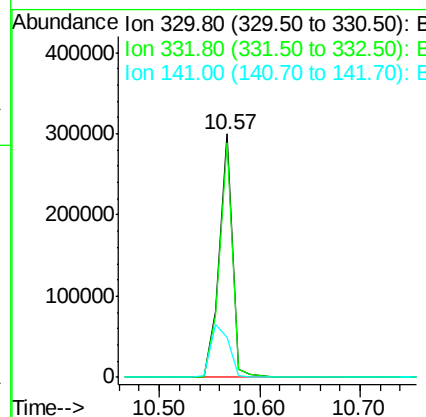
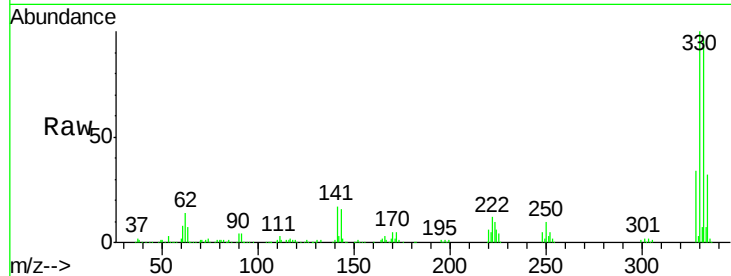




#41  
 2,4,6-Tribromophenol  
 Concen: 143.76 ng  
 RT: 10.57 min Scan# 742  
 Delta R.T. -0.03 min  
 Lab File: BF086149.D  
 Acq: 8 Apr 2016 00:23

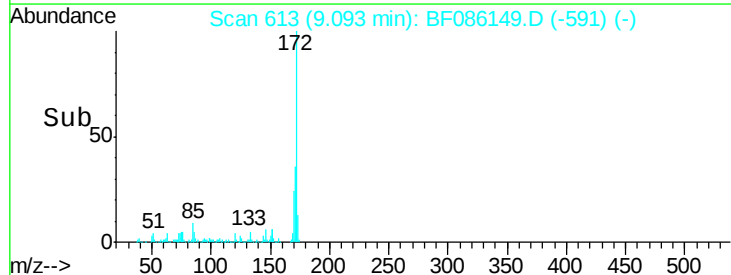
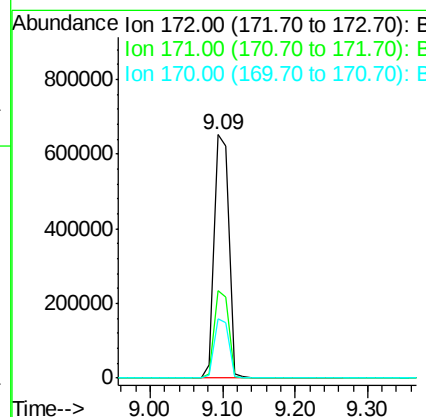
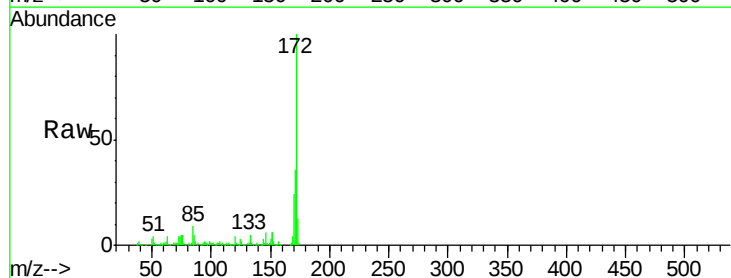
Instrument :  
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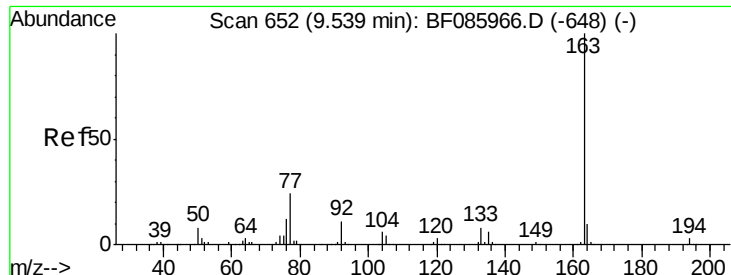
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 78.2  | 117.2 |
| 141     | 30.6  | 31.5  | 47.3# |



#44  
 2-Fluorobiphenyl  
 Concen: 75.09 ng  
 RT: 9.09 min Scan# 613  
 Delta R.T. -0.05 min  
 Lab File: BF086149.D  
 Acq: 8 Apr 2016 00:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.4  | 44.2  |
| 170     | 24.3  | 19.8  | 29.6  |

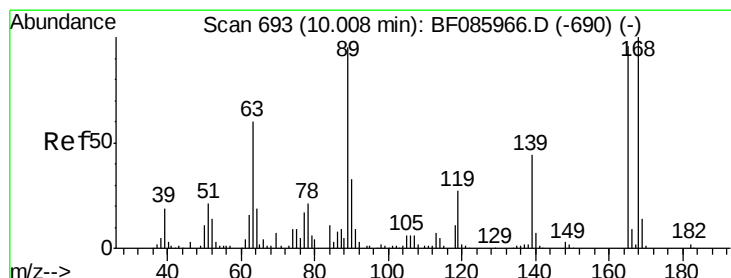
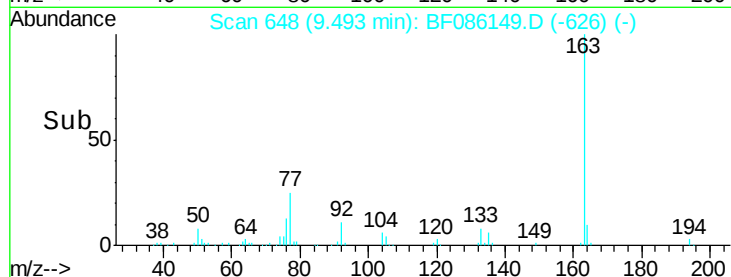
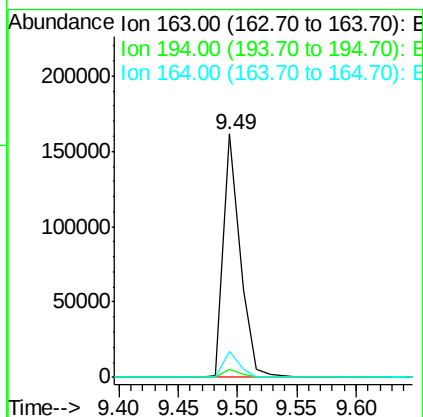
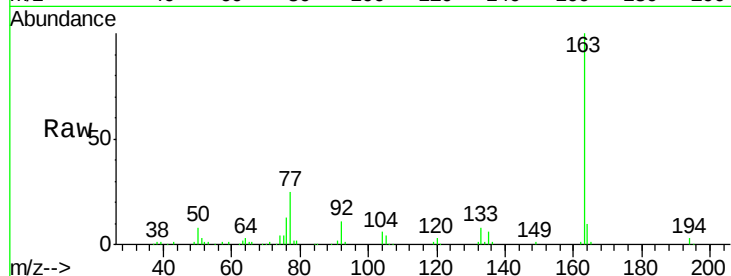




#49  
Dimethylphthalate  
Concen: 10.47 ng  
RT: 9.49 min Scan# 648  
Delta R.T. -0.05 min  
Lab File: BF086149.D  
Acq: 8 Apr 2016 00:23

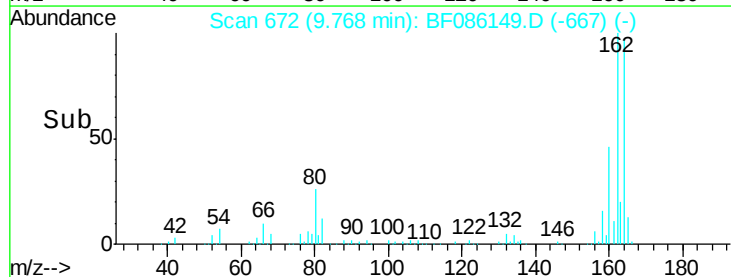
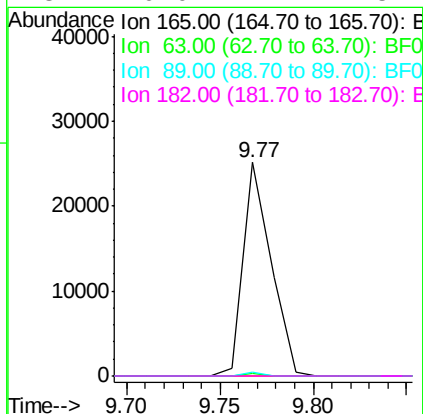
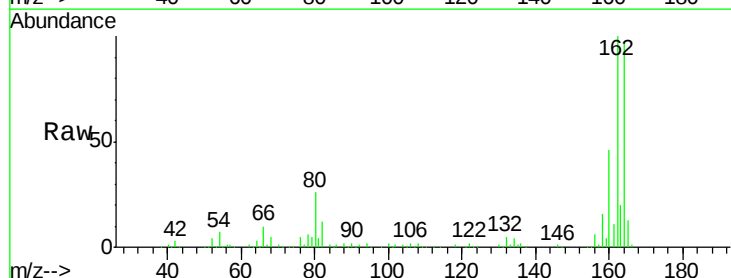
Instrument :  
BNA\_F  
ClientSampleId :  
AMBOY-SB-16(0.5-20.0)

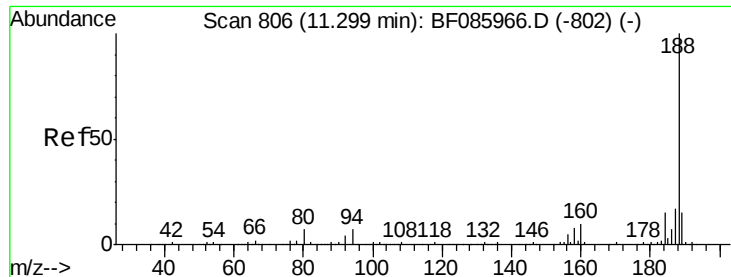
Tgt Ion:163 Resp: 157538  
Ion Ratio Lower Upper  
163 100  
194 3.1 2.9 4.3  
164 10.5 8.3 12.5



#56  
2,4-Dinitrotoluene  
Concen: 6.48 ng  
RT: 9.77 min Scan# 672  
Delta R.T. -0.24 min  
Lab File: BF086149.D  
Acq: 8 Apr 2016 00:23

Tgt Ion:165 Resp: 26061  
Ion Ratio Lower Upper  
165 100  
63 1.2 24.9 37.3#  
89 1.6 41.0 61.6#  
182 0.0 2.1 3.1#

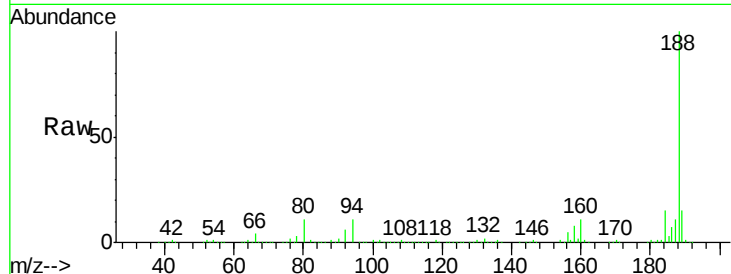




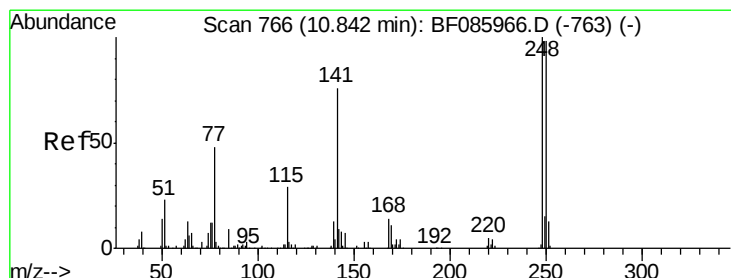
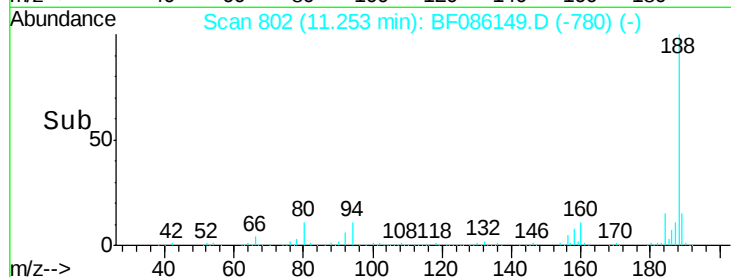
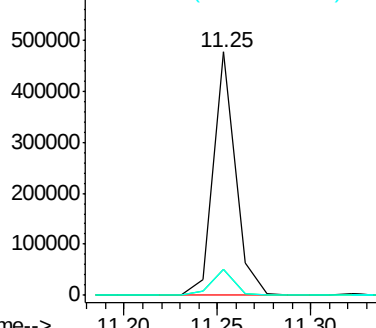
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 802  
Delta R.T. -0.05 min  
Lab File: BF086149.D  
Acq: 8 Apr 2016 00:23

Instrument :  
BNA\_F  
ClientSampleId :  
AMBOY-SB-16(0.5-20.0)

Tgt Ion:188 Resp: 397302  
Ion Ratio Lower Upper  
188 100  
94 10.6 5.4 8.0#  
80 10.7 5.5 8.3#

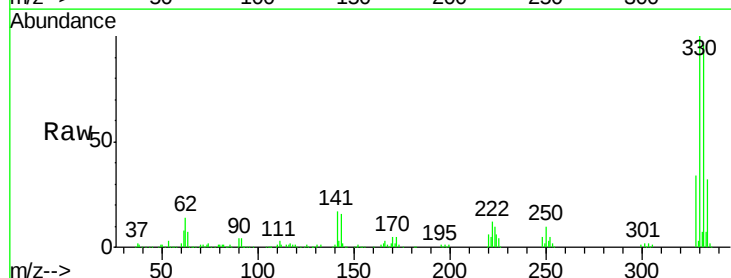


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

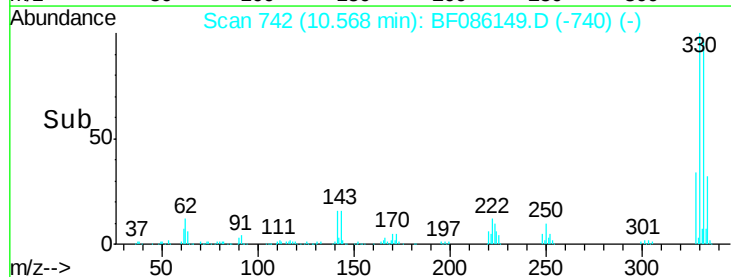
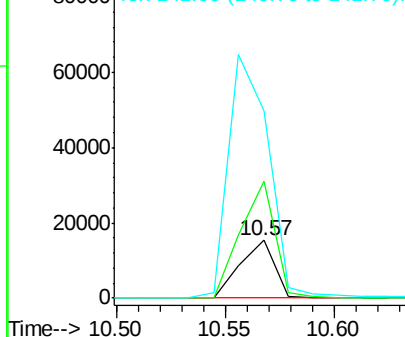


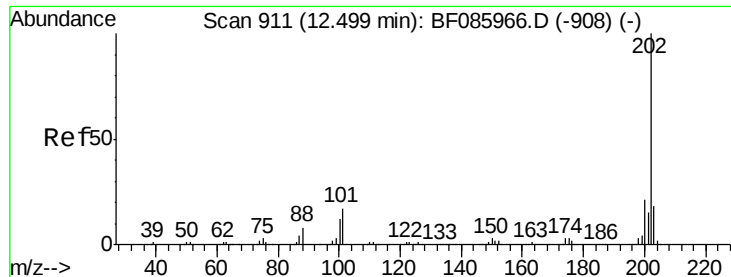
#66  
4-Bromophenyl-phenylether  
Concen: 4.11 ng  
RT: 10.57 min Scan# 742  
Delta R.T. -0.27 min  
Lab File: BF086149.D  
Acq: 8 Apr 2016 00:23

Tgt Ion:248 Resp: 16691  
Ion Ratio Lower Upper  
248 100  
250 203.2 77.4 116.0#  
141 324.8 63.6 95.4#



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





#74

Fluoranthene

Concen: 3.44 ng

RT: 12.46 min Scan# 908

Delta R.T. -0.03 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

Instrument :

BNA\_F

ClientSampleId :

AMBOY-SB-16(0.5-20.0)

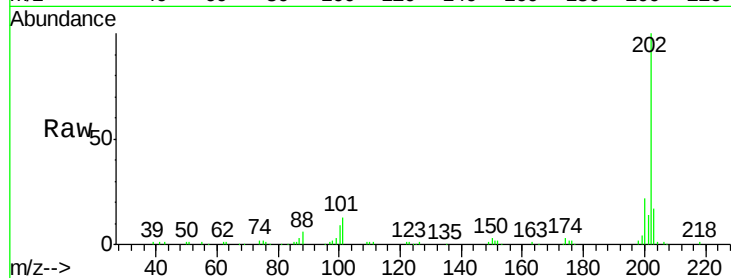
Tgt Ion:202 Resp: 77659

Ion Ratio Lower Upper

202 100

101 12.6 0.0 36.6

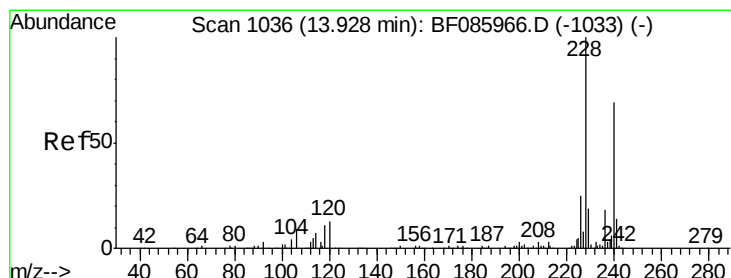
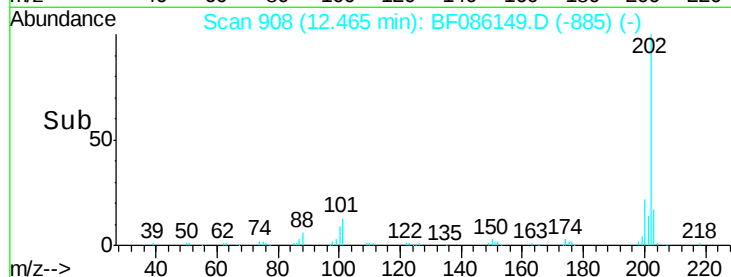
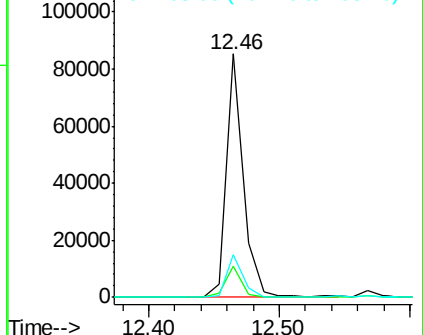
203 17.4 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1033

Delta R.T. -0.03 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

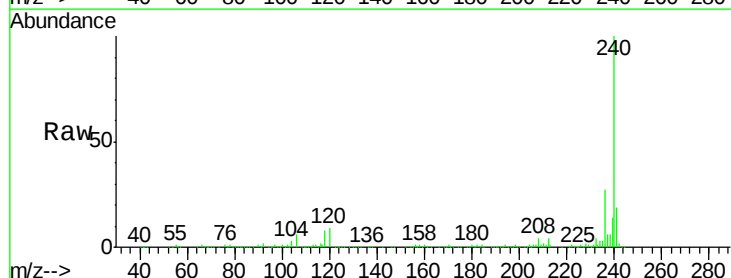
Tgt Ion:240 Resp: 262010

Ion Ratio Lower Upper

240 100

120 9.1 13.8 20.8#

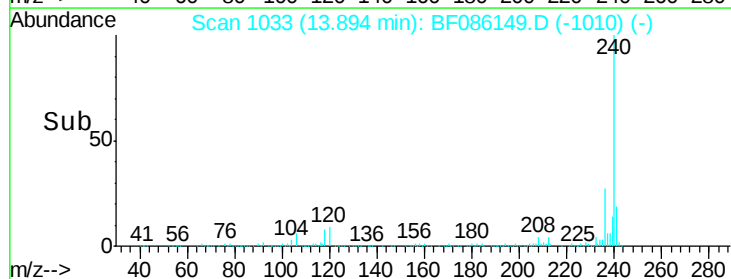
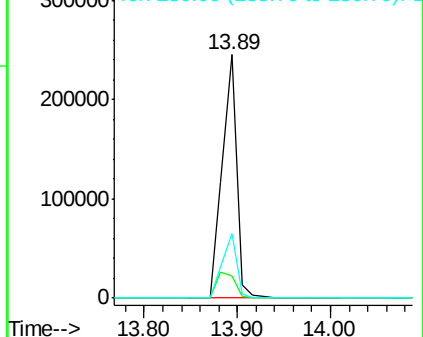
236 26.6 20.6 30.8

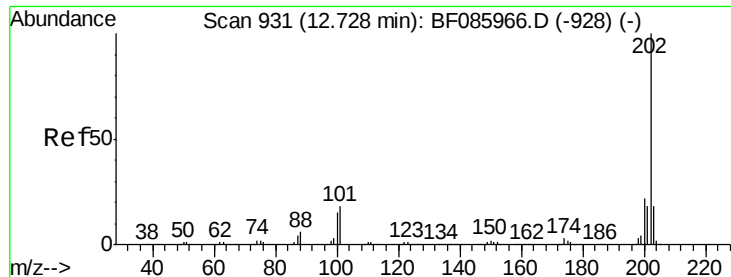


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

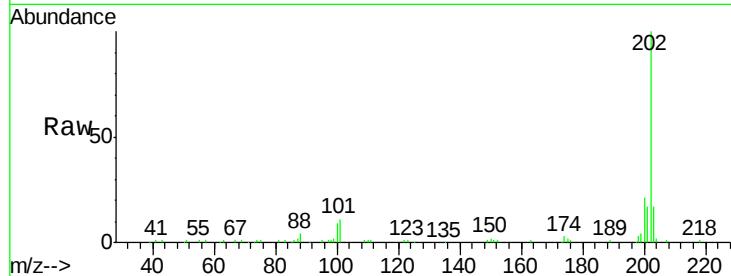




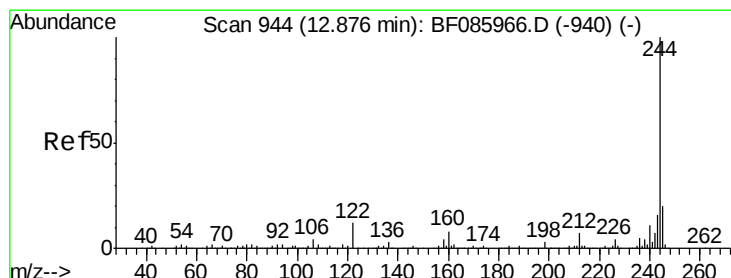
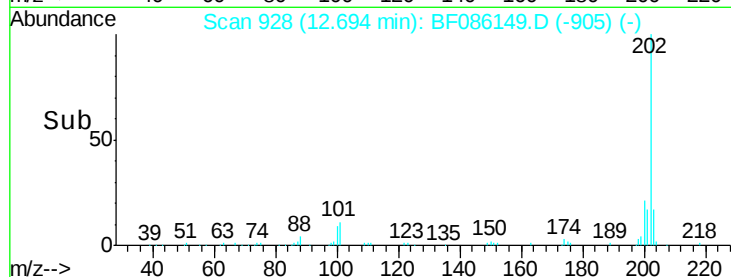
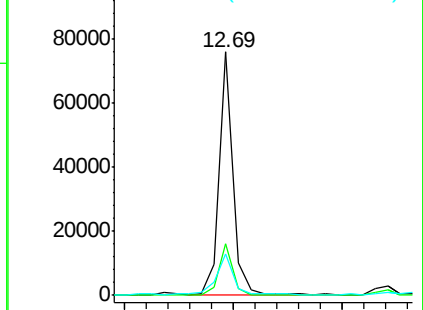
#77  
 Pyrene  
 Concen: 3.73 ng  
 RT: 12.69 min Scan# 928  
 Delta R.T. -0.03 min  
 Lab File: BF086149.D  
 Acq: 8 Apr 2016 00:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AMBOY-SB-16(0.5-20.0)

Tgt Ion: 202 Resp: 68808  
 Ion Ratio Lower Upper  
 202 100  
 200 21.0 17.6 26.4  
 203 17.2 14.0 21.0

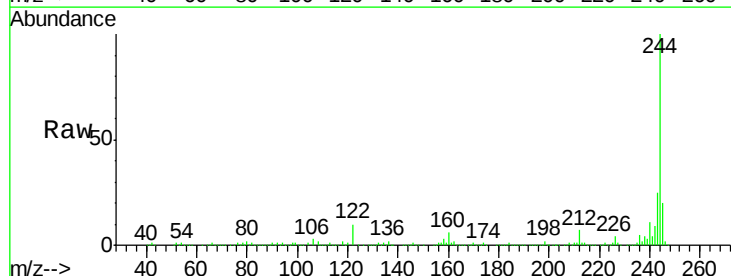


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E

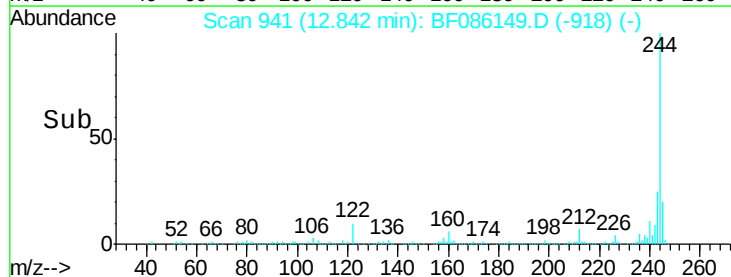
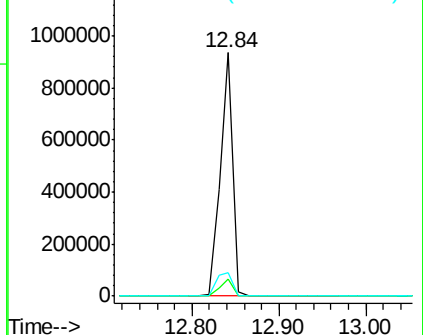


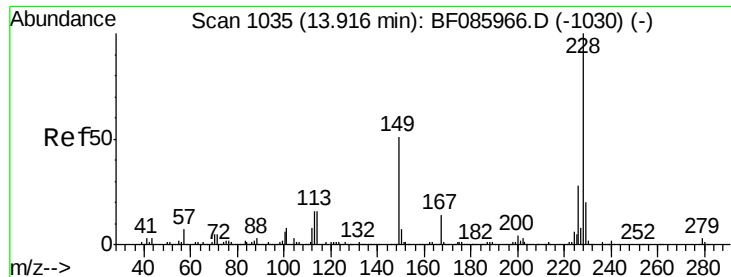
#78  
 Terphenyl-d14  
 Concen: 84.44 ng  
 RT: 12.84 min Scan# 941  
 Delta R.T. -0.03 min  
 Lab File: BF086149.D  
 Acq: 8 Apr 2016 00:23

Tgt Ion: 244 Resp: 941217  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 6.1 9.1  
 122 9.6 10.2 15.4#



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





#80

Benzo(a)anthracene

Concen: 2.73 ng

RT: 13.88 min Scan# 1032

Delta R.T. -0.03 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

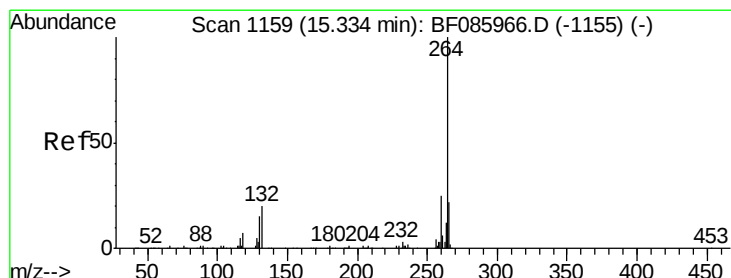
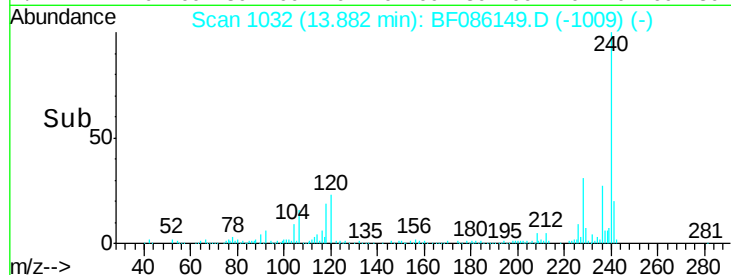
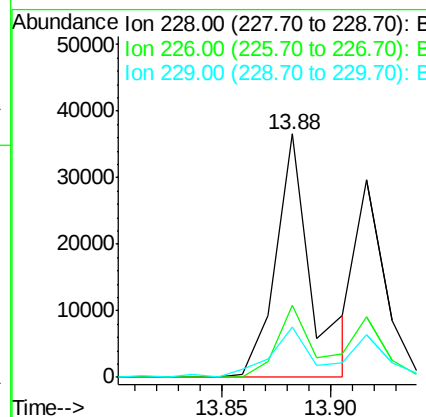
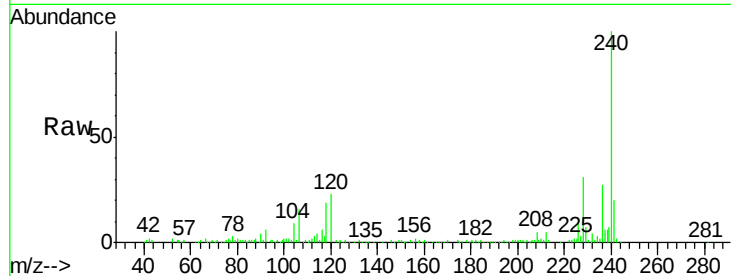
Instrument :

BNA\_F

ClientSampleId :

AMBOY-SB-16(0.5-20.0)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 42105 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 29.9  | 22.1  | 33.1  |
| 229      | 20.8  | 16.2  | 24.4  |



#86

Perylene-d12

Concen: 20.00 ng

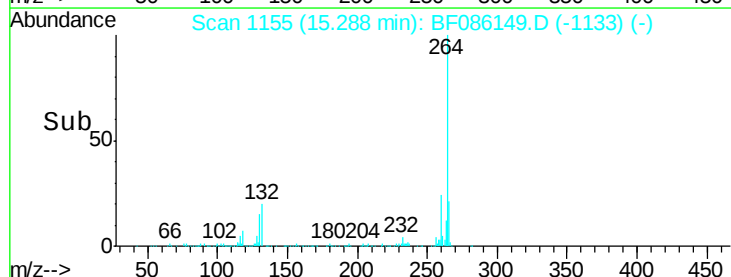
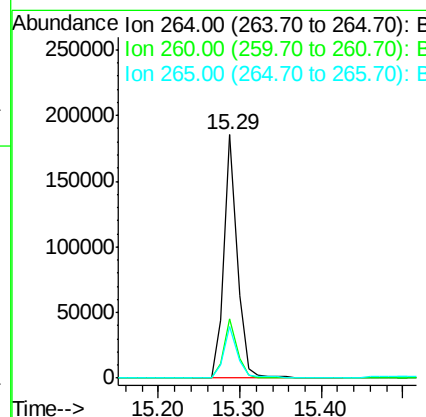
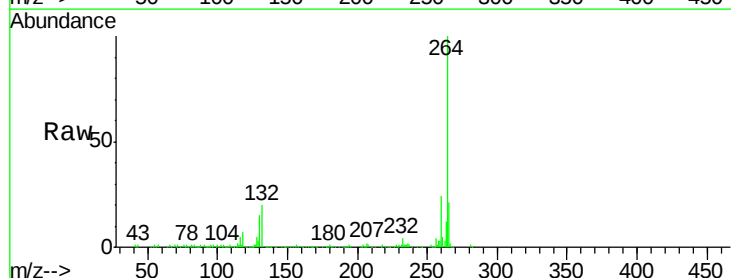
RT: 15.29 min Scan# 1155

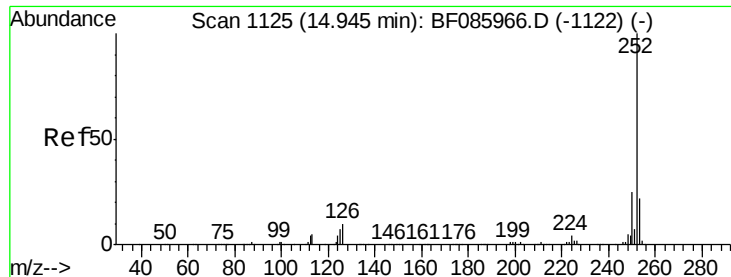
Delta R.T. -0.05 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 210839 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.4  | 19.4  | 29.2   |
| 265      | 21.4  | 17.2  | 25.8   |

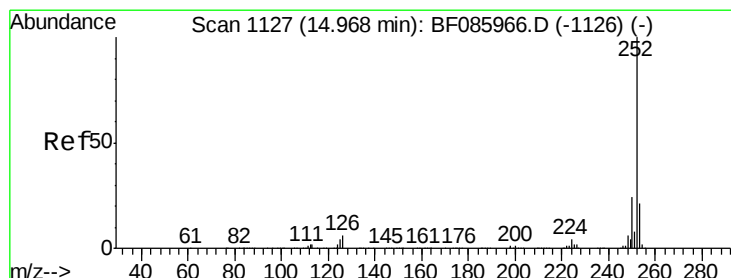
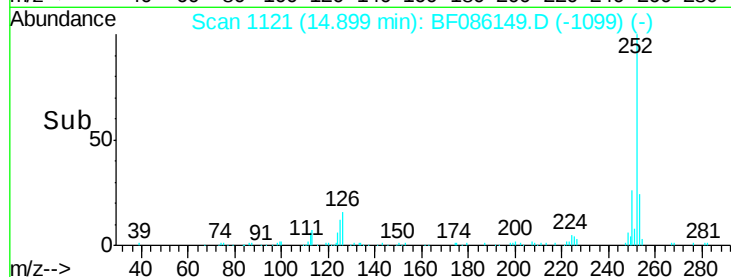
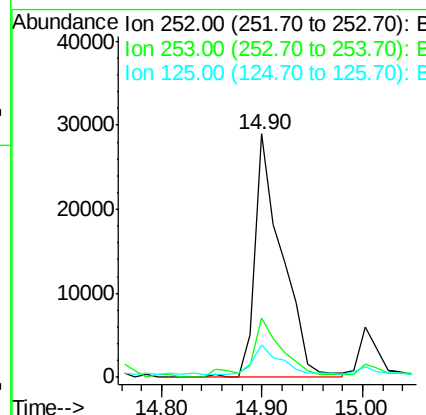
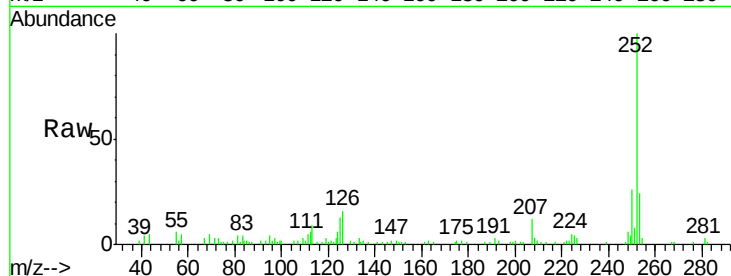




#87  
Benzo(b)fluoranthene  
Concen: 4.05 ng  
RT: 14.90 min Scan# 1121  
Delta R.T. -0.05 min  
Lab File: BF086149.D  
Acq: 8 Apr 2016 00:23

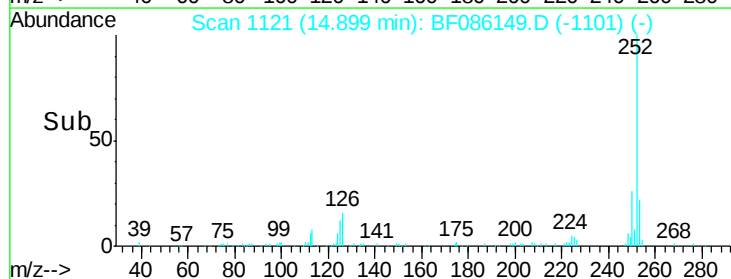
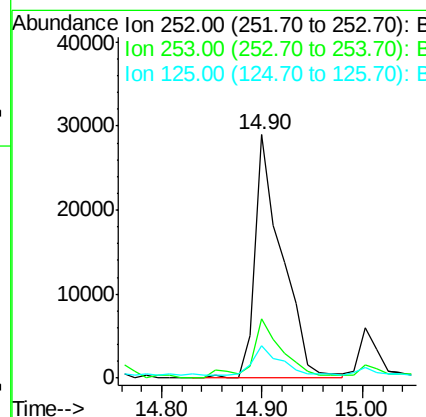
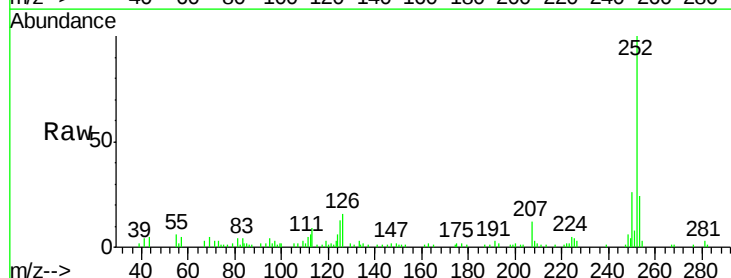
Instrument :  
BNA\_F  
ClientSampleId :  
AMBOY-SB-16(0.5-20.0)

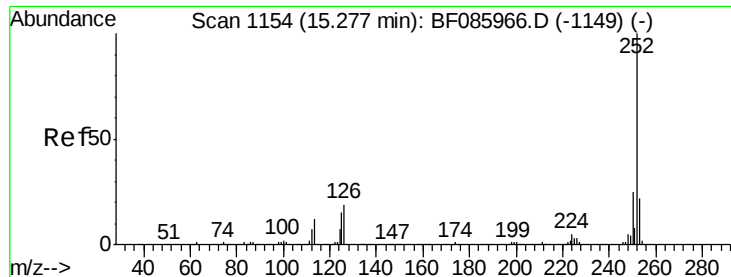
Tgt Ion:252 Resp: 53775  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.6 26.4  
125 13.4 10.3 15.5



#88  
Benzo(k)fluoranthene  
Concen: 4.58 ng  
RT: 14.90 min Scan# 1121  
Delta R.T. -0.07 min  
Lab File: BF086149.D  
Acq: 8 Apr 2016 00:23

Tgt Ion:252 Resp: 53775  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.8 26.6  
125 13.4 7.7 11.5#





#89

Benzo(a)pyrene

Concen: 2.46 ng

RT: 15.23 min Scan# 1150

Delta R.T. -0.05 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

Instrument :

BNA\_F

ClientSampleId :

AMBOY-SB-16(0.5-20.0)

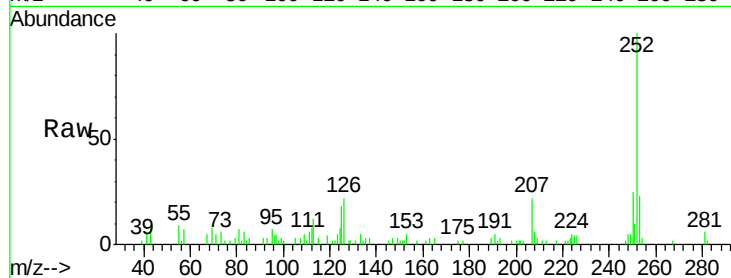
Tgt Ion:252 Resp: 28948

Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.0

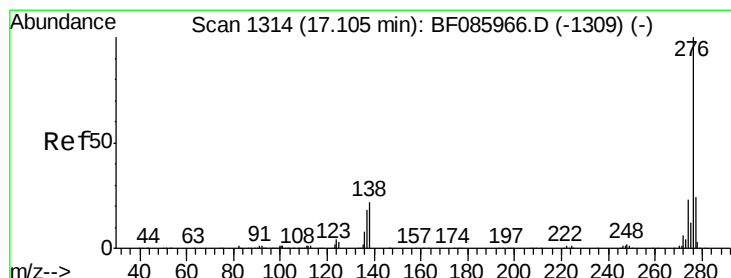
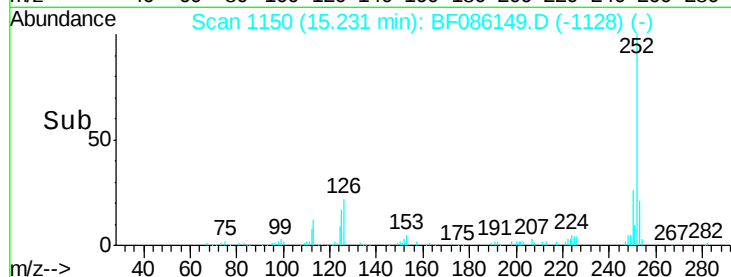
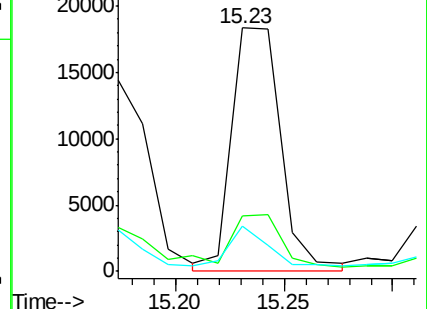
125 18.4 10.3 15.5#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 2.15 ng

RT: 17.04 min Scan# 1308

Delta R.T. -0.07 min

Lab File: BF086149.D

Acq: 8 Apr 2016 00:23

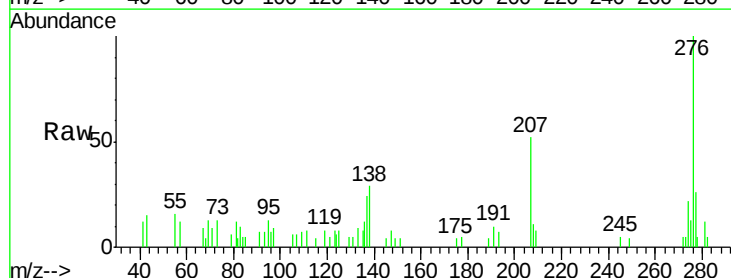
Tgt Ion:276 Resp: 19694

Ion Ratio Lower Upper

276 100

277 26.3 18.8 28.2

138 29.1 22.6 34.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

