

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061616\  
 Data File : BF088082.D  
 Acq On : 16 Jun 2016 18:21  
 Operator : UM/SJ  
 Sample : H3571-09  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-23-COMP

Quant Time: Jun 17 04:06:36 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 16 14:54:54 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 115683   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.00  | 136  | 425507   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.75  | 164  | 193668   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.23 | 188  | 370052   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.86 | 240  | 243693   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.25 | 264  | 230875   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.31  | 112  | 740670   | 109.45 | ng    | 0.01     |
| 7) Phenol-d6                | 6.36  | 99   | 820384   | 100.04 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 599077   | 82.21  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 197710   | 96.68  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.08  | 172  | 899749   | 72.15  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.81 | 244  | 691641   | 64.58  | ng    | -0.01    |

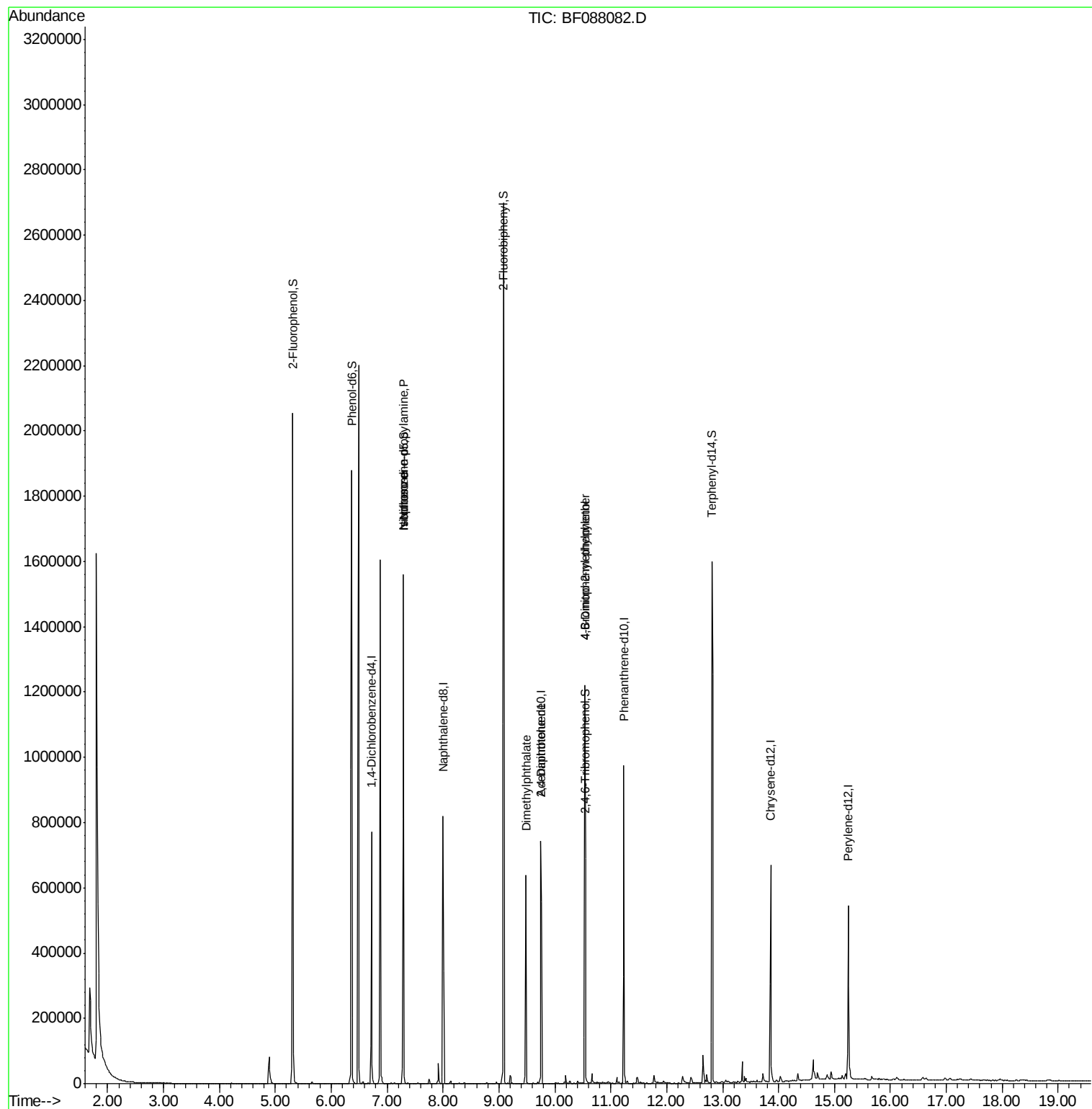
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 10) Phenol                     | 6.38  | 94   | 10158    | Below Cal |       | 82     |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 78185    | 14.90 ng  | #     | 69     |
| 25) Isophorone                 | 7.29  | 82   | 587872   | 43.55 ng  | #     | 65     |
| 45) 1,1'-Biphenyl              | 9.08  | 154  | 1911     | Below Cal | #     | 1      |
| 49) Dimethylphthalate          | 9.48  | 163  | 421332   | 30.03 ng  |       | 98     |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 25224    | 6.11 ng   | #     | 36     |
| 57) Fluorene                   | 10.54 | 166  | 8672     | Below Cal | #     | 89     |
| 64) 4,6-Dinitro-2-methylphenol | 10.54 | 198  | 283      | 2.28 ng   | #     | 1      |
| 66) 4-Bromophenyl-phenylether  | 10.54 | 248  | 11772    | 2.97 ng   | #     | 1      |

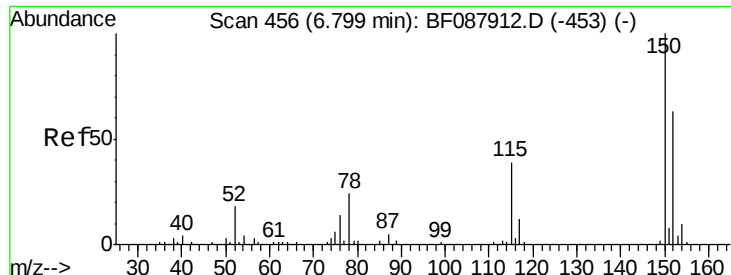
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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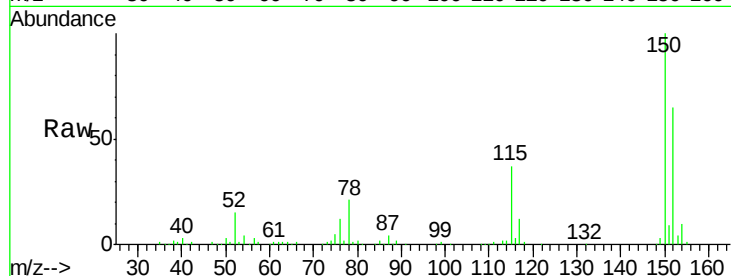


#1

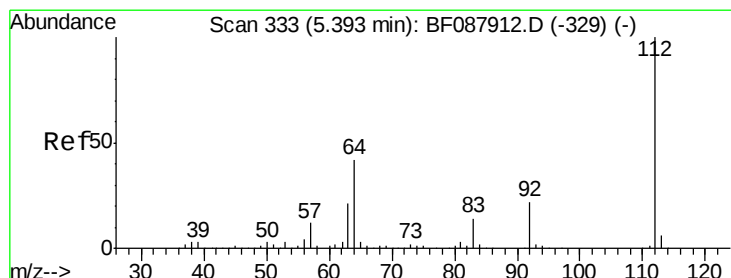
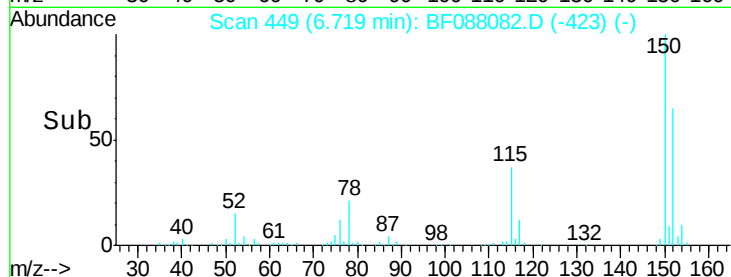
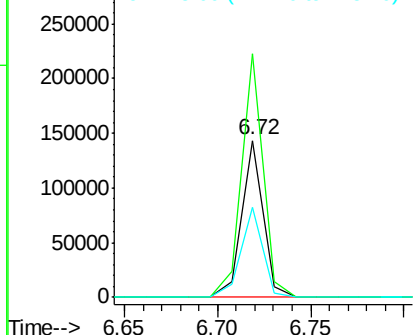
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.72 min Scan# 449  
Delta R.T. 0.00 min  
Lab File: BF088082.D  
Acq: 16 Jun 2016 18:21

Instrument :  
BNA\_F  
ClientSampleId :  
SB-23-COMP

Tgt Ion:152 Resp: 115683  
Ion Ratio Lower Upper  
152 100  
150 154.9 123.8 185.6  
115 57.3 39.6 59.4



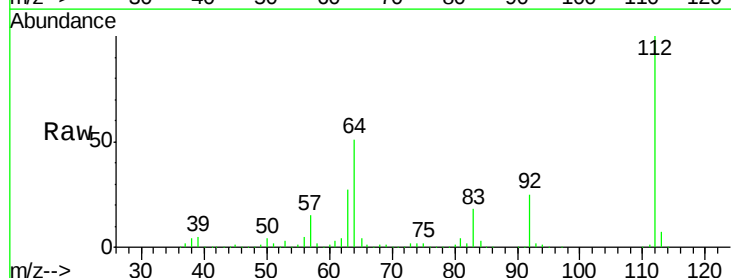
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



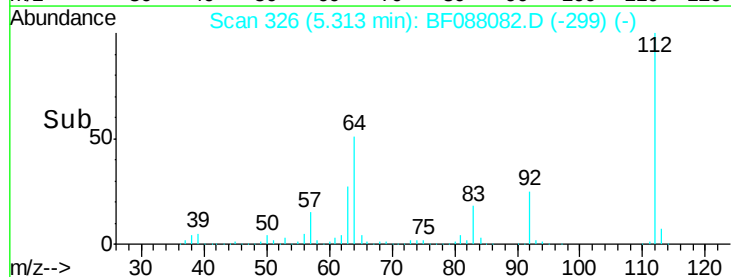
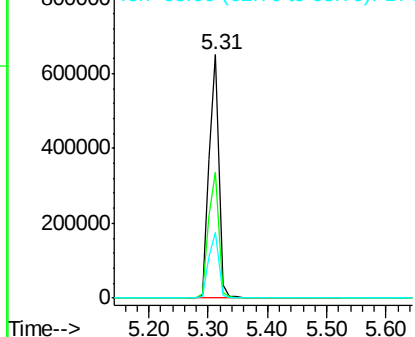
#5

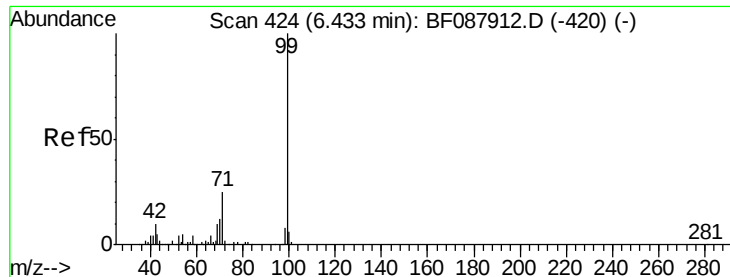
2-Fluorophenol  
Concen: 109.45 ng  
RT: 5.31 min Scan# 326  
Delta R.T. 0.01 min  
Lab File: BF088082.D  
Acq: 16 Jun 2016 18:21

Tgt Ion:112 Resp: 740670  
Ion Ratio Lower Upper  
112 100  
64 51.5 42.2 63.2  
63 26.8 21.8 32.8



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 100.04 ng

RT: 6.36 min Scan# 418

Delta R.T. 0.00 min

Lab File: BF088082.D

Acq: 16 Jun 2016 18:21

Instrument :

BNA\_F

ClientSampleId :

SB-23-COMP

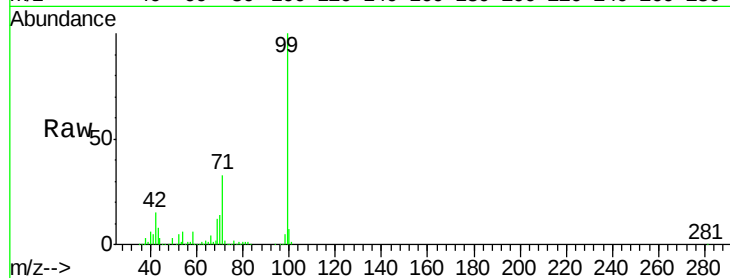
Tgt Ion: 99 Resp: 820384

Ion Ratio Lower Upper

99 100

42 15.2 12.2 18.2

71 32.9 23.4 35.0



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

6.36

800000

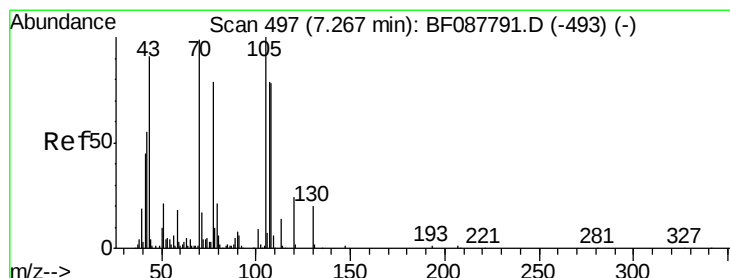
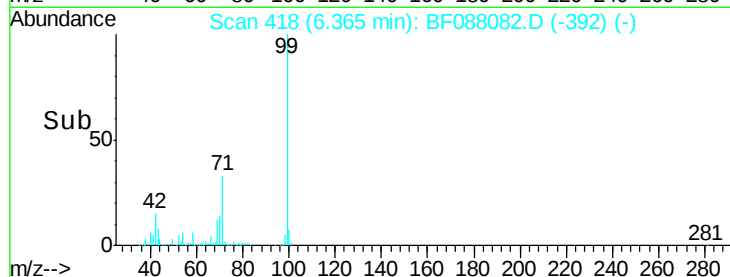
600000

400000

200000

0

Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 14.90 ng

RT: 7.29 min Scan# 499

Delta R.T. 0.14 min

Lab File: BF088082.D

Acq: 16 Jun 2016 18:21

Tgt Ion: 70 Resp: 78185

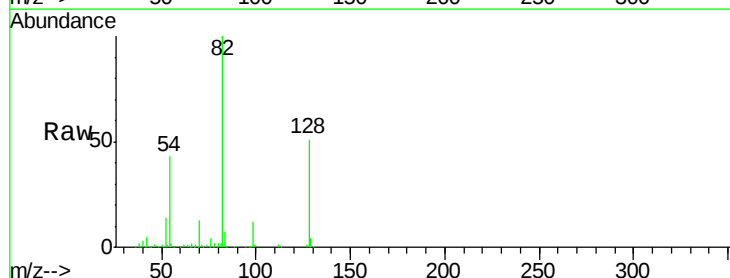
Ion Ratio Lower Upper

70 100

42 38.7 49.6 74.4#

101 0.0 7.1 10.7#

130 2.5 15.4 23.2#



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): BF0

Ion 130.00 (129.70 to 130.70): BF0

7.29

100000

80000

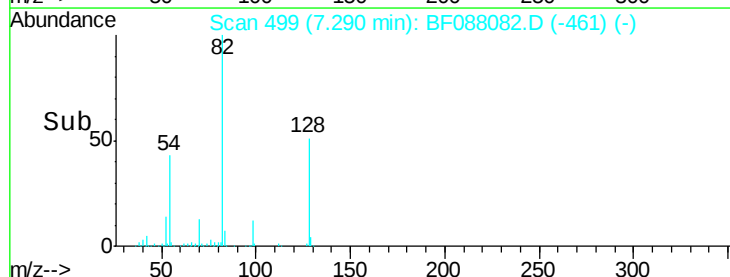
60000

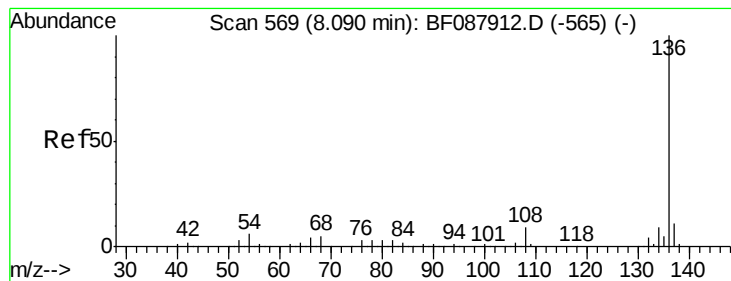
40000

20000

0

Time-->





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.00 min Scan# 561

Delta R.T. -0.01 min

Lab File: BF088082.D

Acq: 16 Jun 2016 18:21

Instrument :

BNA\_F

ClientSampleId :

SB-23-COMP

Tgt Ion: 136 Resp: 425507

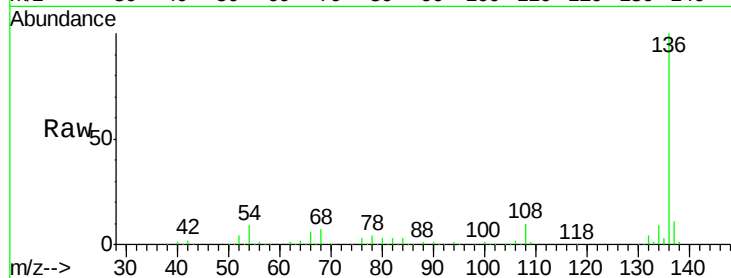
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 8.5 6.6 10.0

68 7.1 5.1 7.7

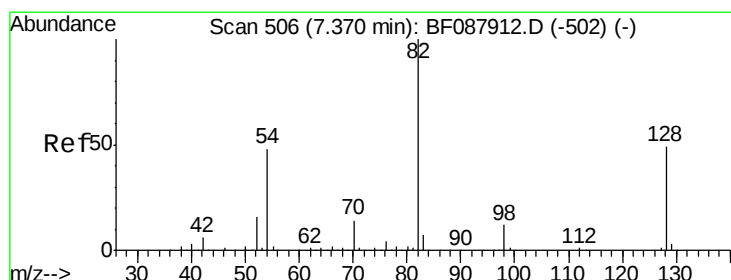
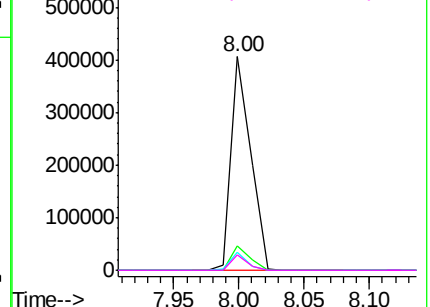
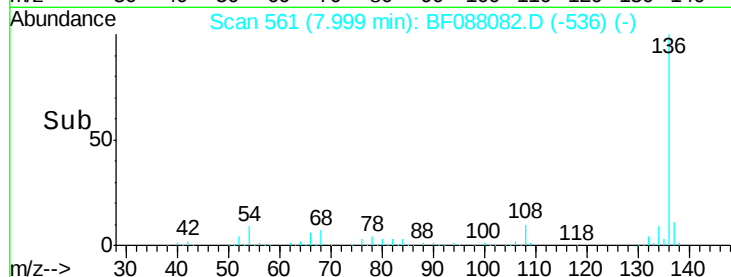


Abundance Ion 136.00 (135.70 to 136.70): E

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: 82.21 ng

RT: 7.29 min Scan# 499

Delta R.T. 0.00 min

Lab File: BF088082.D

Acq: 16 Jun 2016 18:21

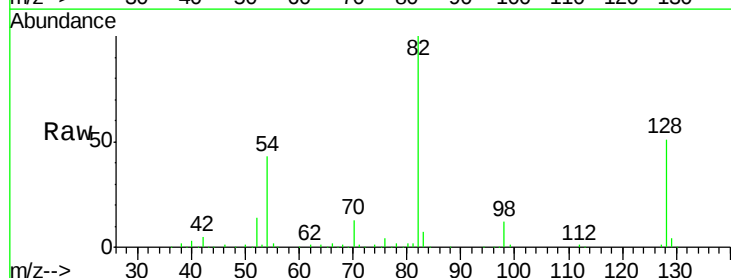
Tgt Ion: 82 Resp: 599077

Ion Ratio Lower Upper

82 100

128 50.8 35.9 53.9

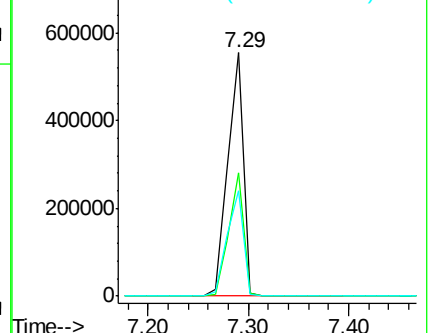
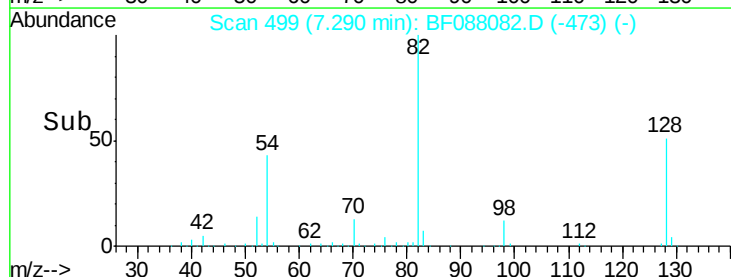
54 43.5 40.9 61.3

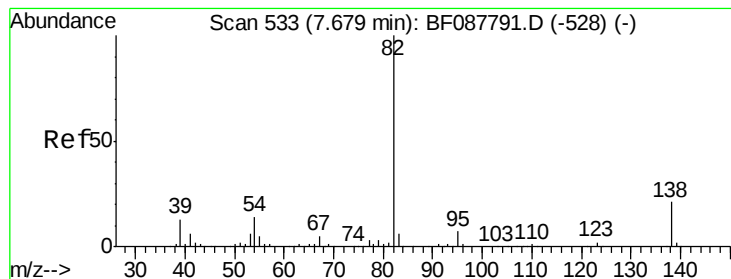


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 43.55 ng

RT: 7.29 min Scan# 499

Delta R.T. -0.26 min

Lab File: BF088082.D

Acq: 16 Jun 2016 18:21

Instrument :

BNA\_F

ClientSampleId :

SB-23-COMP

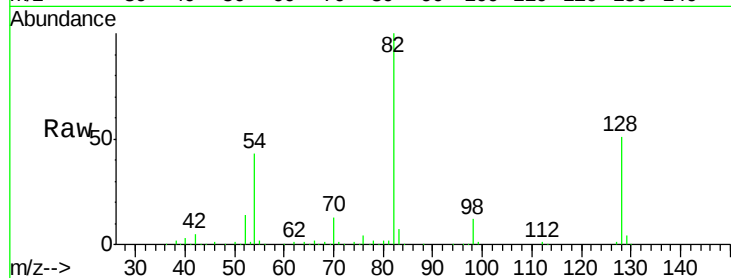
Tgt Ion: 82 Resp: 587872

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

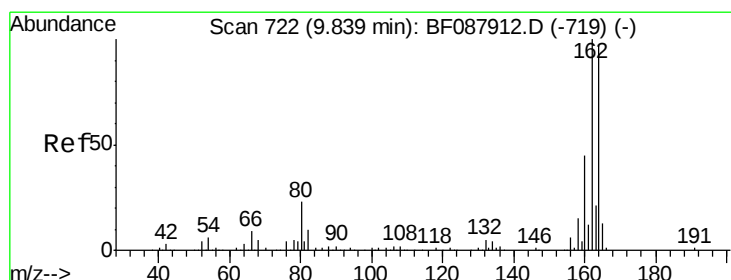
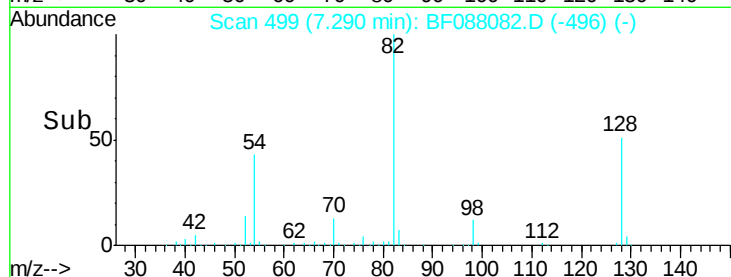
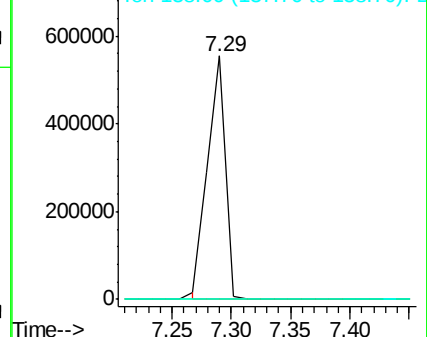
138 0.0 14.6 21.8#



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: 9.75 min Scan# 714

Delta R.T. -0.01 min

Lab File: BF088082.D

Acq: 16 Jun 2016 18:21

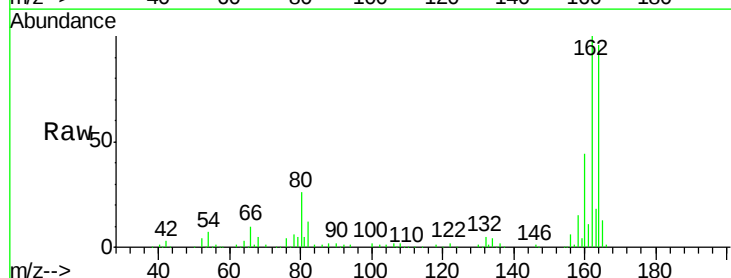
Tgt Ion: 164 Resp: 193668

Ion Ratio Lower Upper

164 100

162 104.4 85.4 128.2

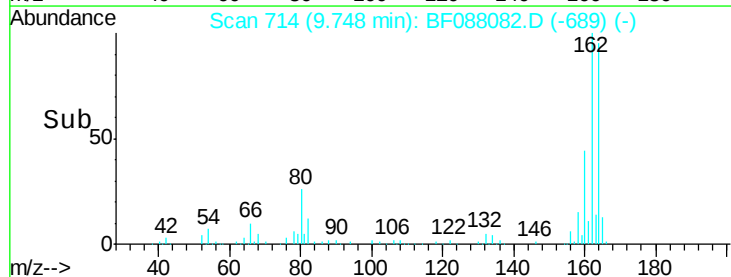
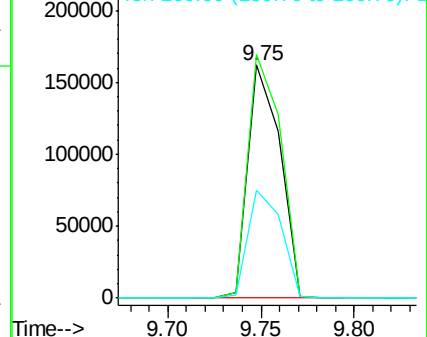
160 46.3 39.5 59.3

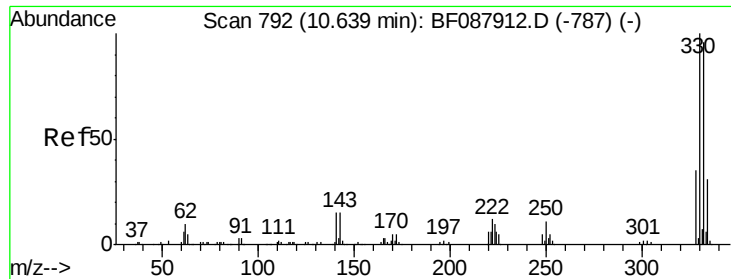


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

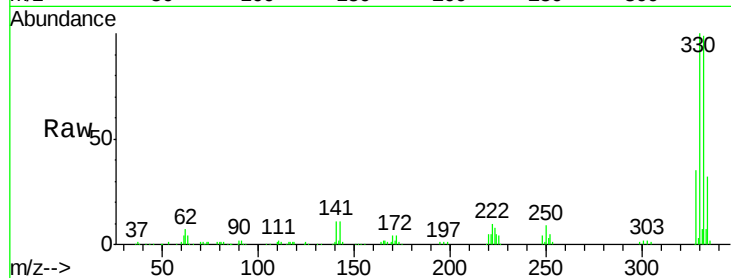




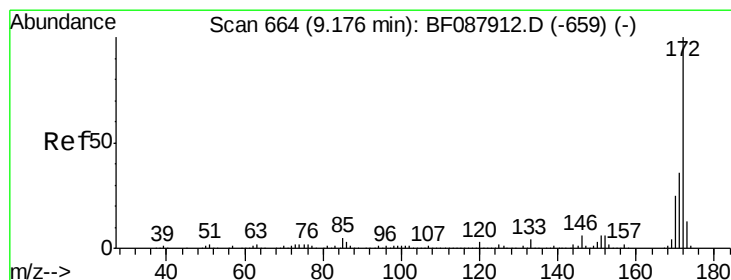
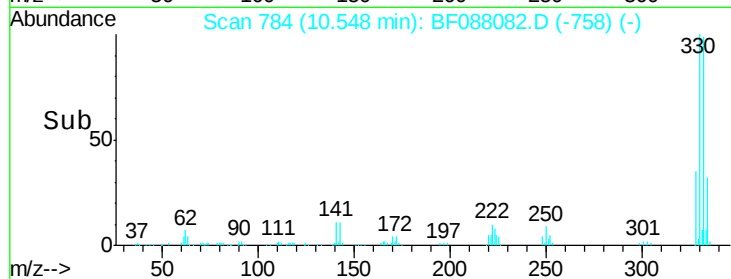
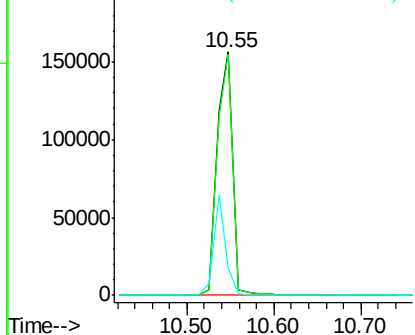
#41  
 2,4,6-Tribromophenol  
 Concen: 96.68 ng  
 RT: 10.55 min Scan# 784  
 Delta R.T. 0.00 min  
 Lab File: BF088082.D  
 Acq: 16 Jun 2016 18:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-23-COMP

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.2  | 0.0   | 0.0#  |
| 141     | 31.9  | 0.0   | 0.0#  |

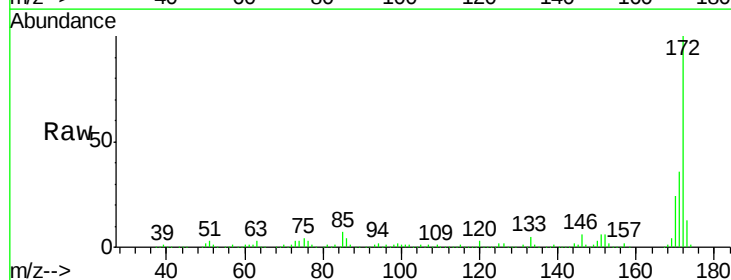


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

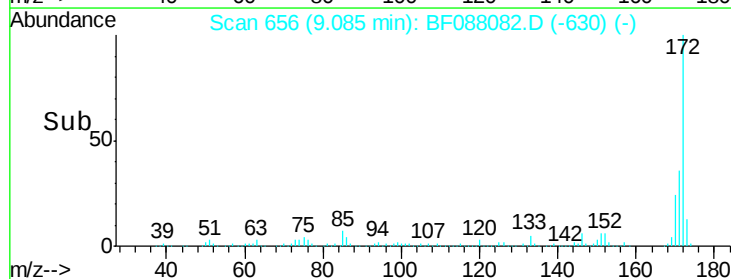
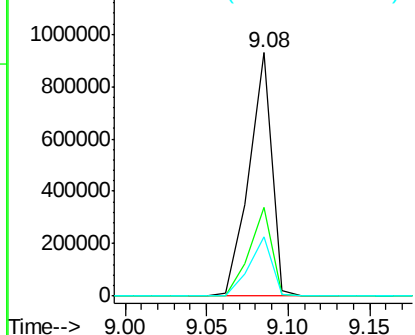


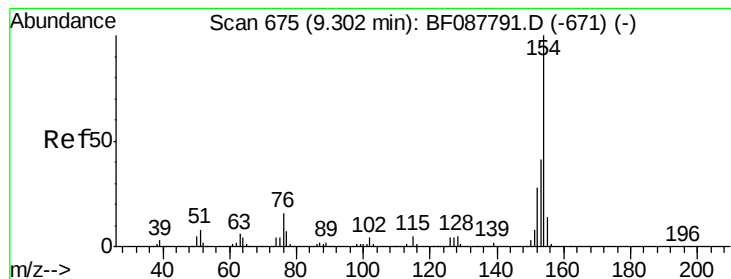
#44  
 2-Fluorobiphenyl  
 Concen: 72.15 ng  
 RT: 9.08 min Scan# 656  
 Delta R.T. 0.00 min  
 Lab File: BF088082.D  
 Acq: 16 Jun 2016 18:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 28.6  | 43.0  |
| 170     | 24.2  | 19.2  | 28.8  |



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





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.08 min Scan# 656

Delta R.T. -0.10 min

Lab File: BF088082.D

Acq: 16 Jun 2016 18:21

Instrument :

BNA\_F

ClientSampleId :

SB-23-COMP

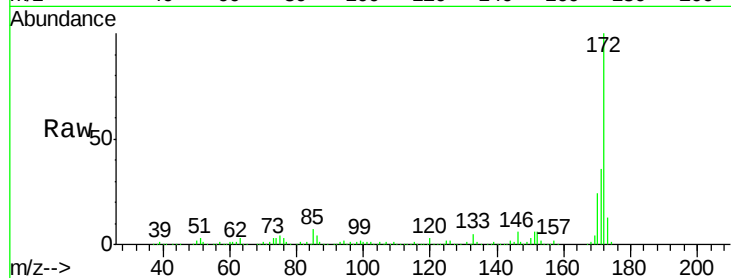
Tgt Ion:154 Resp: 1911

Ion Ratio Lower Upper

154 100

153 913.8 20.6 60.6#

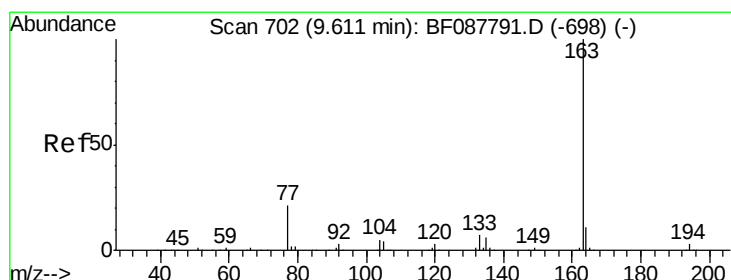
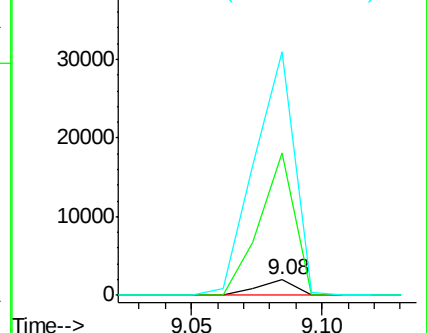
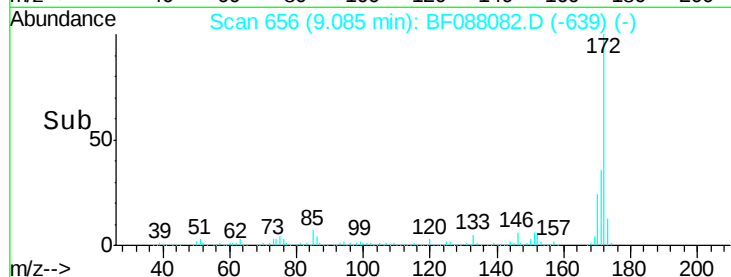
76 1561.7 0.0 35.1#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#49

Dimethylphthalate

Concen: 30.03 ng

RT: 9.48 min Scan# 691

Delta R.T. -0.01 min

Lab File: BF088082.D

Acq: 16 Jun 2016 18:21

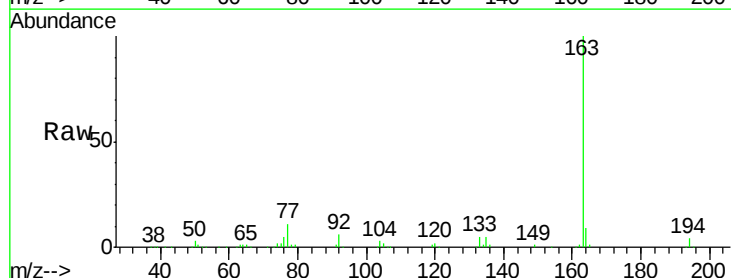
Tgt Ion:163 Resp: 421332

Ion Ratio Lower Upper

163 100

194 3.8 2.8 4.2

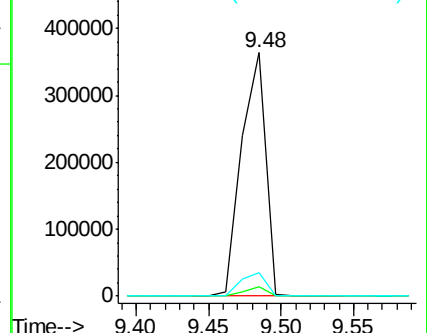
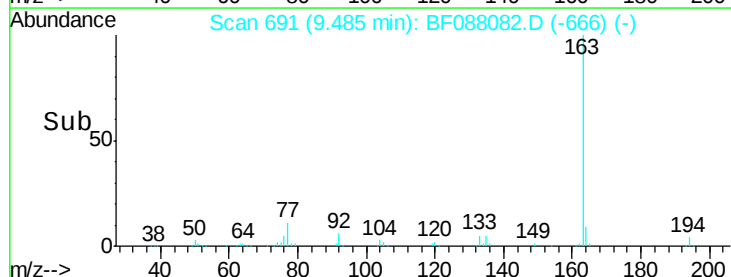
164 9.5 8.3 12.5

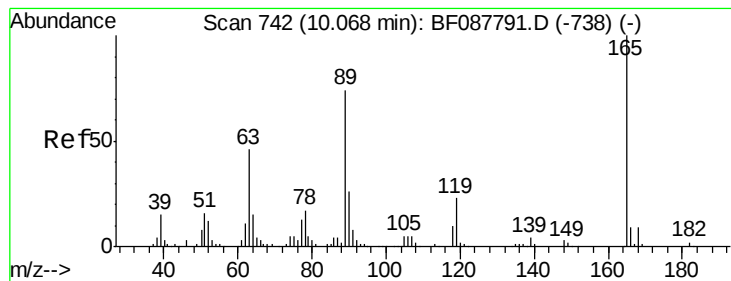


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#56

2,4-Dinitrotoluene

Concen: 6.11 ng

RT: 9.75 min Scan# 714

Delta R.T. -0.21 min

Lab File: BF088082.D

Acq: 16 Jun 2016 18:21

Instrument :

BNA\_F

ClientSampleId :

SB-23-COMP

Tgt Ion:165 Resp: 25224

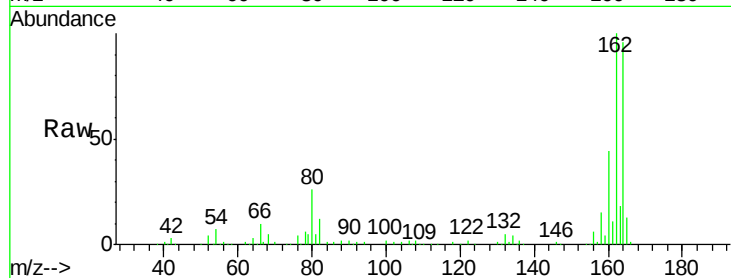
Ion Ratio Lower Upper

165 100

63 1.5 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

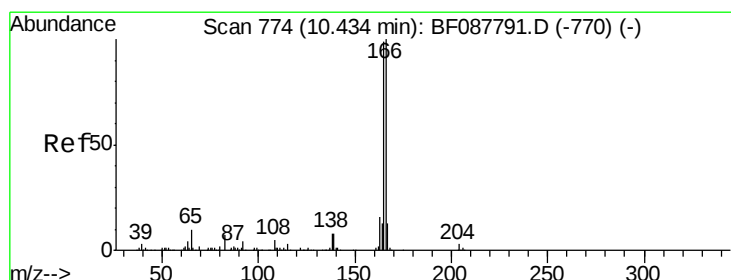
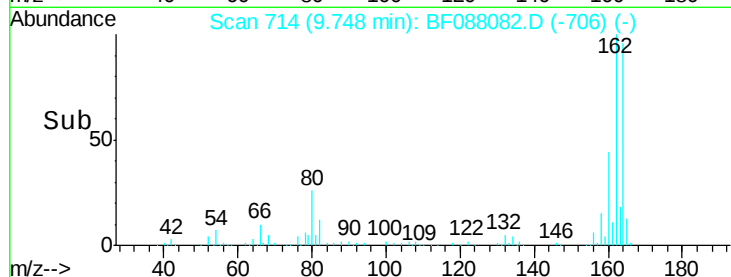
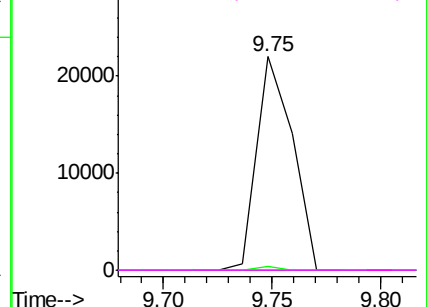


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: Below Cal

RT: 10.54 min Scan# 783

Delta R.T. 0.23 min

Lab File: BF088082.D

Acq: 16 Jun 2016 18:21

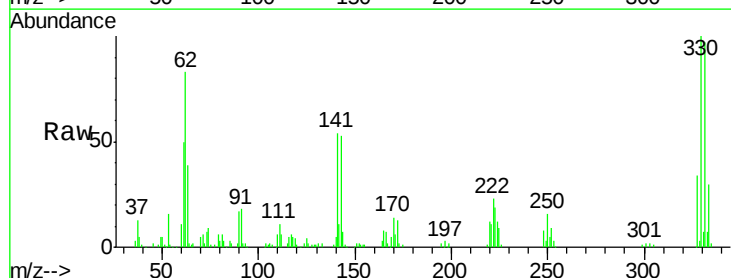
Tgt Ion:166 Resp: 8672

Ion Ratio Lower Upper

166 100

165 103.7 77.8 116.8

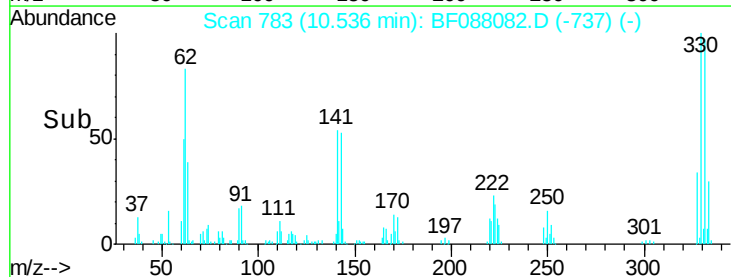
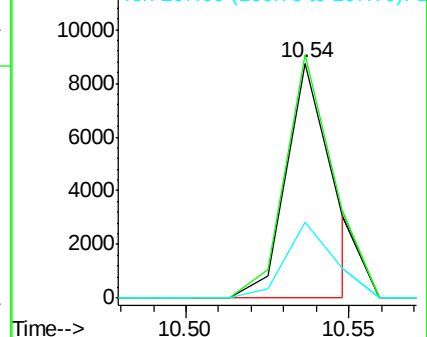
167 32.5 11.2 16.8#

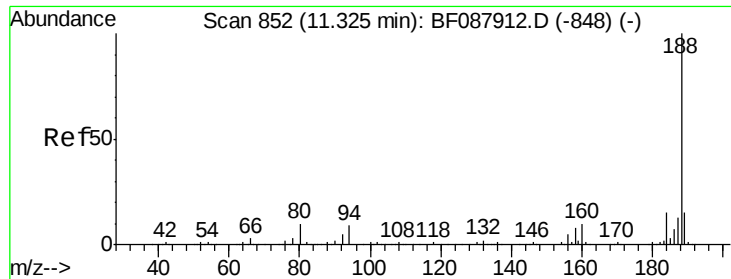


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

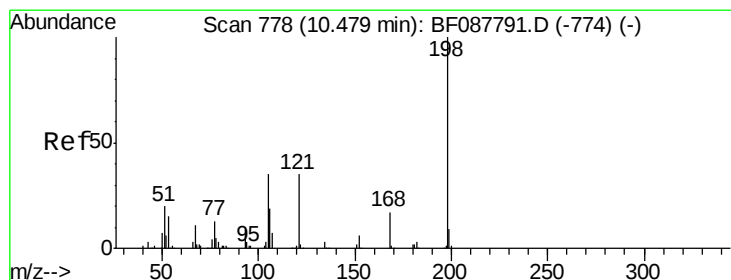
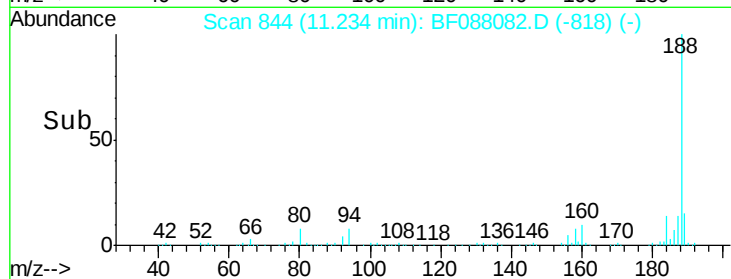
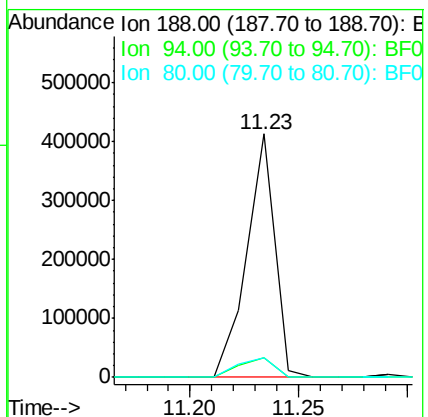
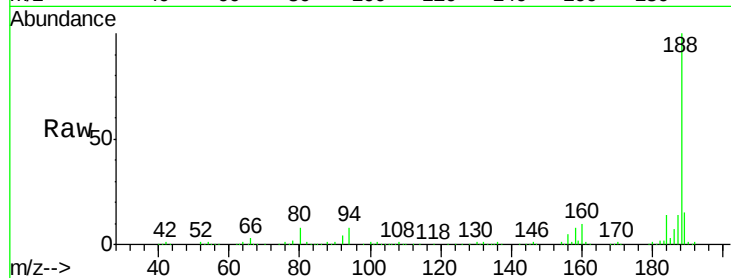




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.23 min Scan# 844  
Delta R.T. 0.00 min  
Lab File: BF088082.D  
Acq: 16 Jun 2016 18:21

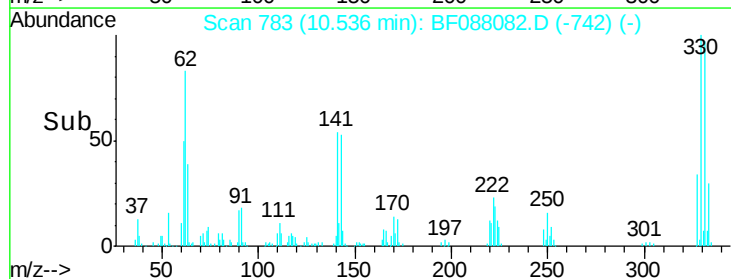
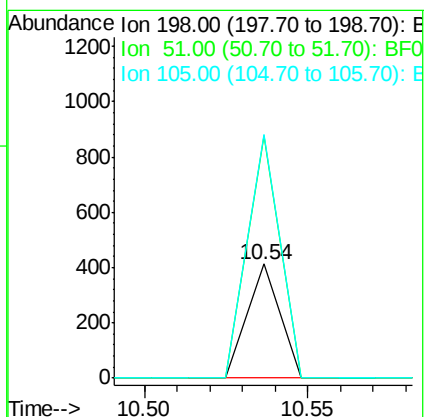
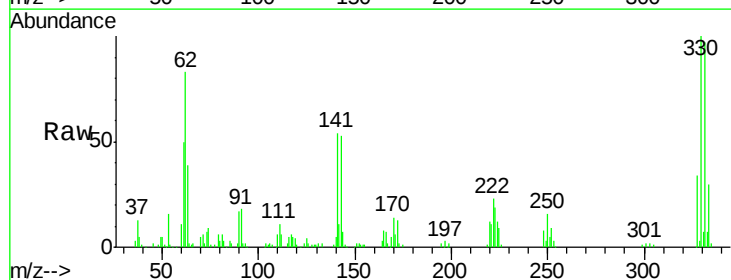
Instrument :  
BNA\_F  
ClientSampleId :  
SB-23-COMP

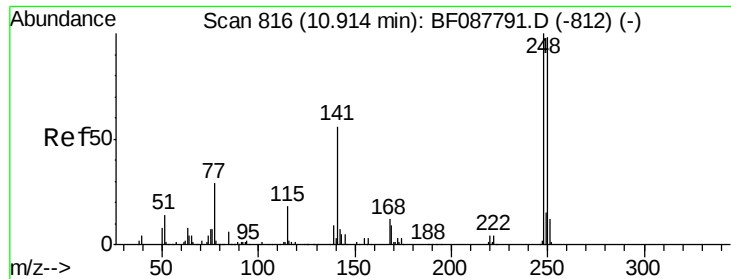
Tgt Ion:188 Resp: 370052  
Ion Ratio Lower Upper  
188 100  
94 8.1 9.0 13.6#  
80 8.2 10.0 15.0#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 2.28 ng  
RT: 10.54 min Scan# 783  
Delta R.T. 0.17 min  
Lab File: BF088082.D  
Acq: 16 Jun 2016 18:21

Tgt Ion:198 Resp: 283  
Ion Ratio Lower Upper  
198 100  
51 213.3 39.6 79.6#  
105 213.8 36.6 76.6#

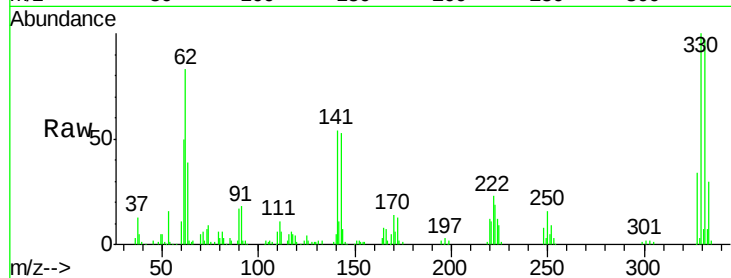




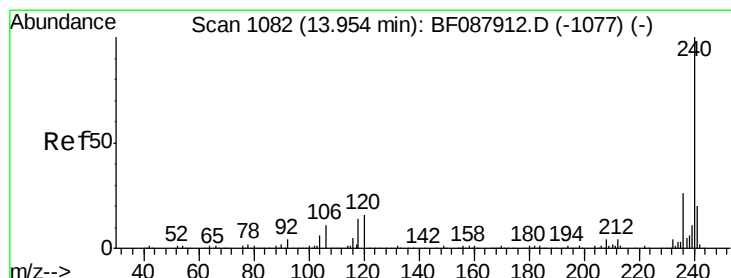
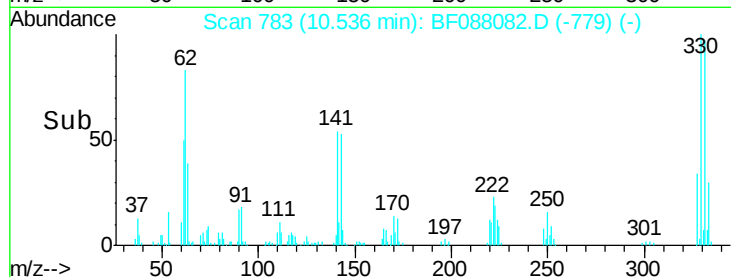
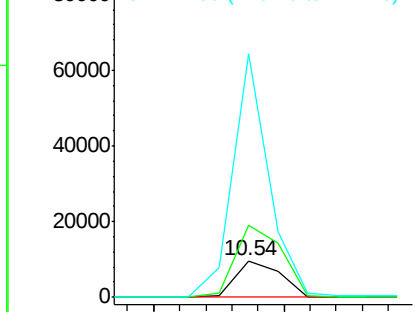
#66  
4-Bromophenyl-phenylether  
Concen: 2.97 ng  
RT: 10.54 min Scan# 783  
Delta R.T. -0.25 min  
Lab File: BF088082.D  
Acq: 16 Jun 2016 18:21

Instrument :  
BNA\_F  
ClientSampleId :  
SB-23-COMP

Tgt Ion:248 Resp: 11772  
Ion Ratio Lower Upper  
248 100  
250 197.0 77.1 115.7#  
141 661.4 50.6 76.0#

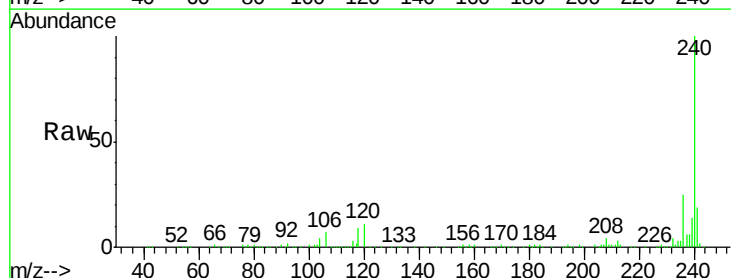


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

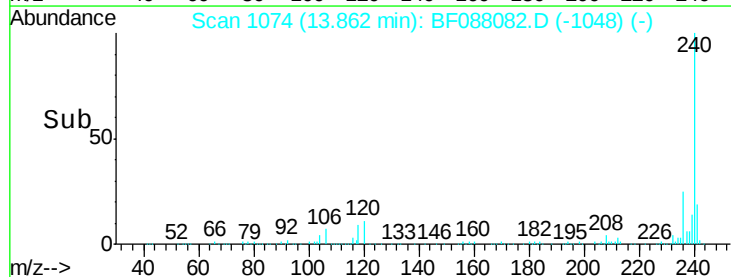
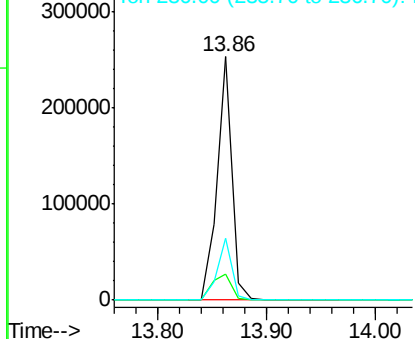


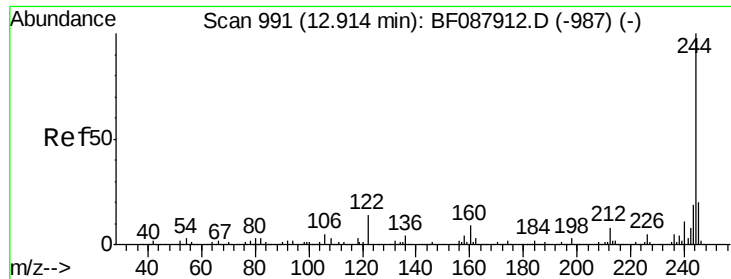
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.86 min Scan# 1074  
Delta R.T. 0.00 min  
Lab File: BF088082.D  
Acq: 16 Jun 2016 18:21

Tgt Ion:240 Resp: 243693  
Ion Ratio Lower Upper  
240 100  
120 10.6 6.8 10.2#  
236 25.5 20.2 30.2



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

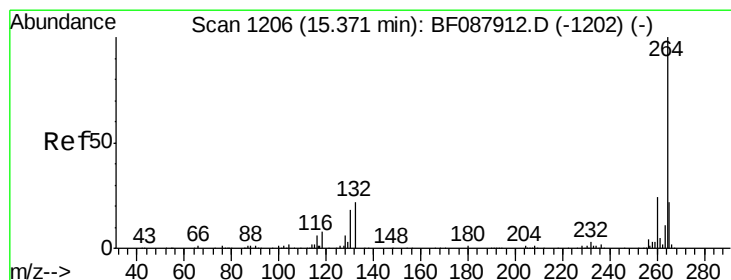
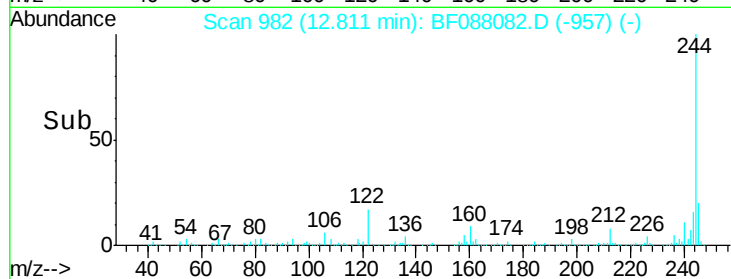
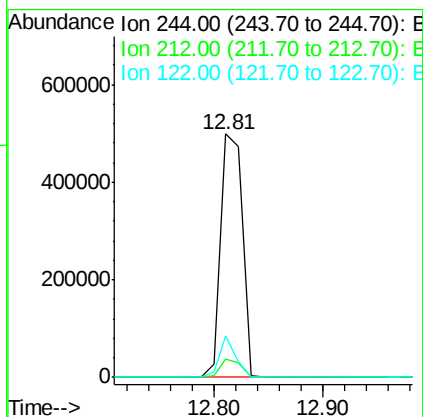
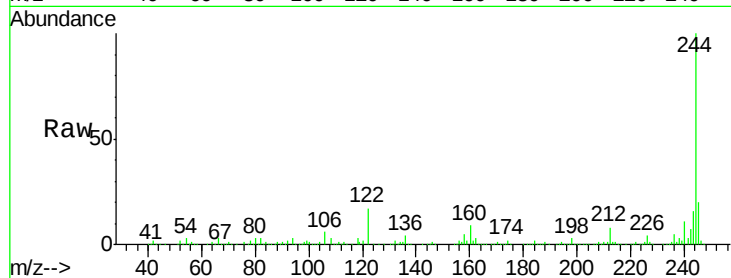




#78  
 Terphenyl-d14  
 Concen: 64.58 ng  
 RT: 12.81 min Scan# 982  
 Delta R.T. -0.01 min  
 Lab File: BF088082.D  
 Acq: 16 Jun 2016 18:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-23-COMP

Tgt Ion:244 Resp: 691641  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 6.0 9.0  
 122 16.9 11.2 16.8#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.25 min Scan# 1195  
 Delta R.T. 0.00 min  
 Lab File: BF088082.D  
 Acq: 16 Jun 2016 18:21

Tgt Ion:264 Resp: 230875  
 Ion Ratio Lower Upper  
 264 100  
 260 23.8 19.2 28.8  
 265 21.9 16.9 25.3

