

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061516\  
 Data File : BF088046.D  
 Acq On : 15 Jun 2016 21:06  
 Operator : UM/SJ  
 Sample : H3609-05  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 181-05-EB-06142016

Quant Time: Jun 16 03:09:30 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 13 14:10:49 2016  
 Response via : Initial Calibration

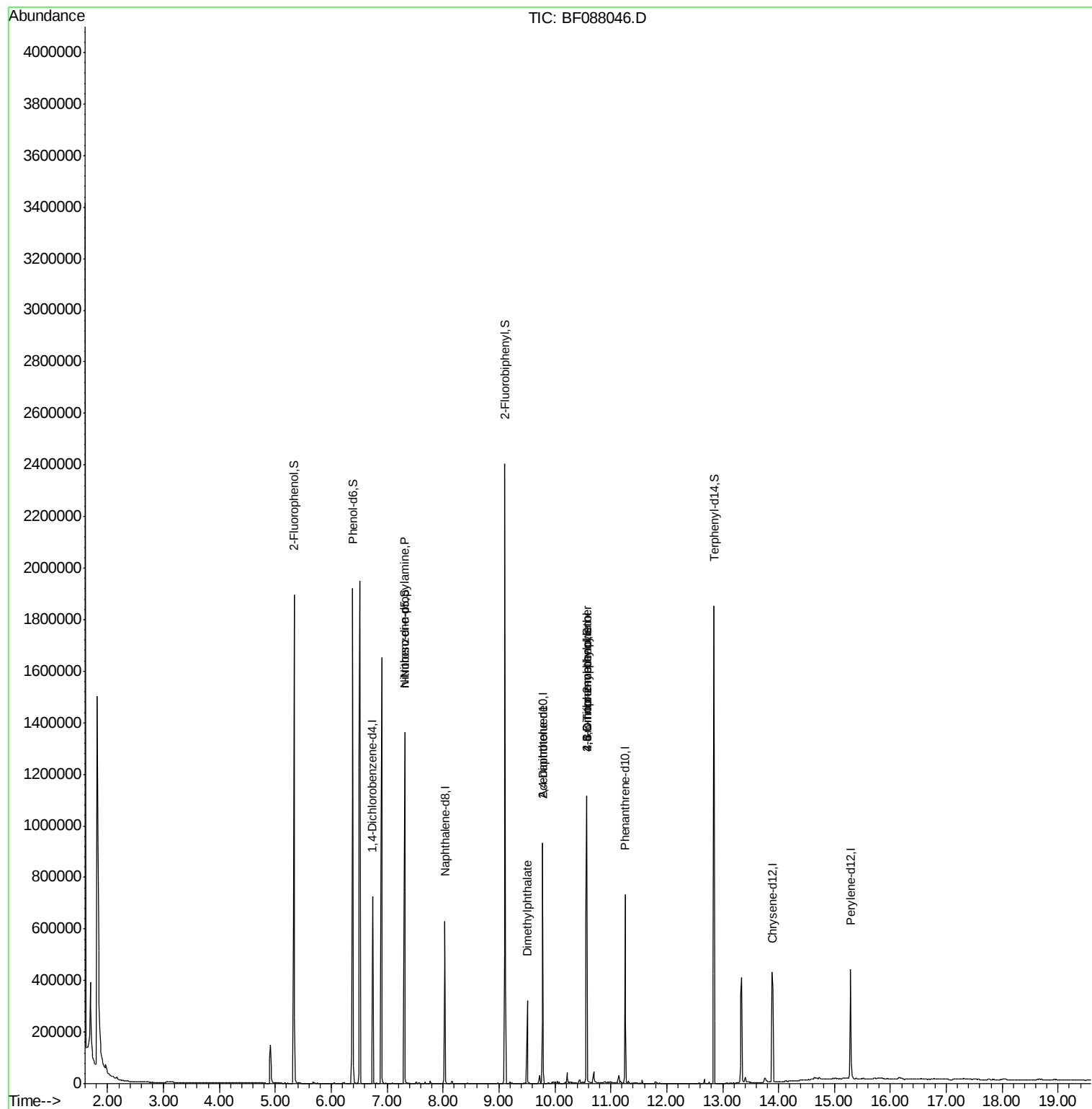
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-----------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.74  | 152  | 107127   | 20.00     | ng    | -0.05     |
| 21) Naphthalene-d8             | 8.03  | 136  | 398582   | 20.00     | ng    | -0.05     |
| 38) Acenaphthene-d10           | 9.78  | 164  | 183619   | 20.00     | ng    | -0.06     |
| 63) Phenanthrene-d10           | 11.26 | 188  | 279926   | 20.00     | ng    | -0.06     |
| 75) Chrysene-d12               | 13.90 | 240  | 202916   | 20.00     | ng    | -0.06     |
| 86) Perylene-d12               | 15.29 | 264  | 206625   | 20.00     | ng    | -0.07     |
| System Monitoring Compounds    |       |      |          |           |       |           |
| 5) 2-Fluorophenol              | 5.34  | 112  | 590092   | 94.17     | ng    | -0.05     |
| 7) Phenol-d6                   | 6.39  | 99   | 842012   | 110.87    | ng    | -0.05     |
| 23) Nitrobenzene-d5            | 7.31  | 82   | 533133   | 78.11     | ng    | -0.05     |
| 41) 2,4,6-Tribromophenol       | 10.57 | 330  | 161070   | 83.08     | ng    | -0.06     |
| 44) 2-Fluorobiphenyl           | 9.11  | 172  | 771756   | 64.70     | ng    | -0.06     |
| 78) Terphenyl-d14              | 12.85 | 244  | 567419   | 63.63     | ng    | -0.06     |
| Target Compounds               |       |      |          |           |       |           |
| 10) Phenol                     | 6.40  | 94   | 13459    | Below Cal |       | Qvalue 97 |
| 19) n-Nitroso-di-n-propylamine | 7.31  | 70   | 69131    | 14.23 ng  | #     | 69        |
| 45) 1,1'-Biphenyl              | 9.11  | 154  | 1380     | Below Cal | #     | 1         |
| 49) Dimethylphthalate          | 9.51  | 163  | 159629   | 12.00 ng  |       | 98        |
| 56) 2,4-Dinitrotoluene         | 9.78  | 165  | 23791    | 6.08 ng   | #     | 37        |
| 57) Fluorene                   | 10.57 | 166  | 8246     | Below Cal | #     | 86        |
| 64) 4,6-Dinitro-2-methylphenol | 10.57 | 198  | 211      | 2.28 ng   | #     | 1         |
| 66) 4-Bromophenyl-phenylether  | 10.57 | 248  | 10601    | 3.53 ng   | #     | 1         |

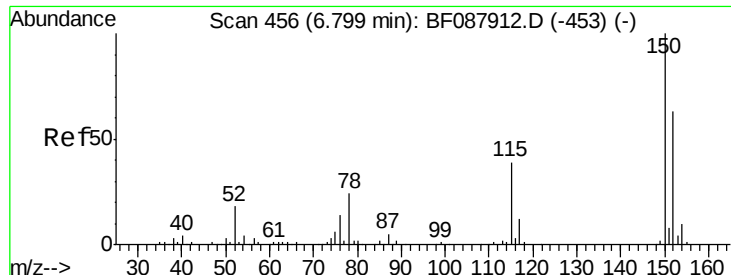
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 13 14:10:49 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 451

Delta R.T. -0.05 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

Instrument :

BNA\_F

ClientSampleId :

181-05-EB-06142016

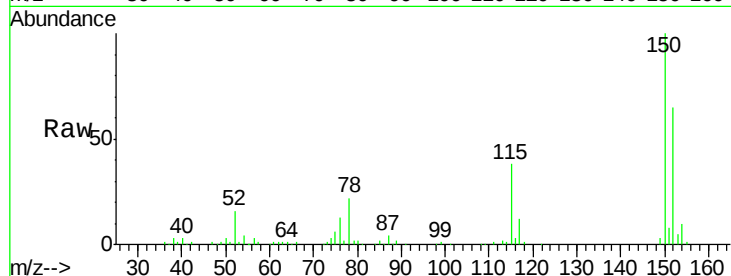
Tgt Ion:152 Resp: 107127

Ion Ratio Lower Upper

152 100

150 154.1 123.8 185.6

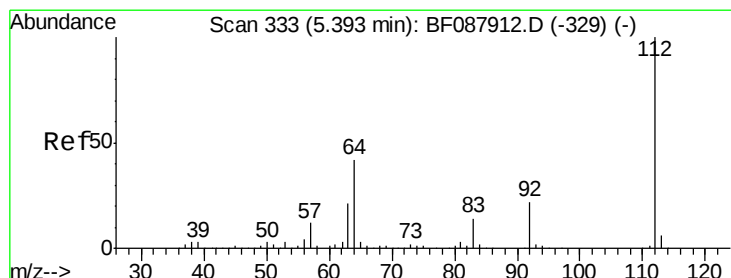
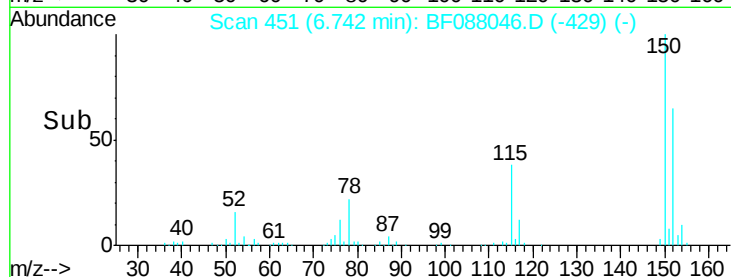
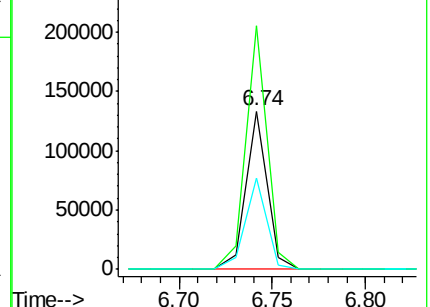
115 58.1 39.6 59.4



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: 94.17 ng

RT: 5.34 min Scan# 328

Delta R.T. -0.05 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

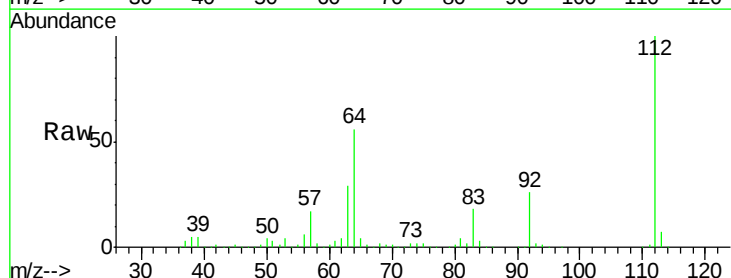
Tgt Ion:112 Resp: 590092

Ion Ratio Lower Upper

112 100

64 55.9 42.2 63.2

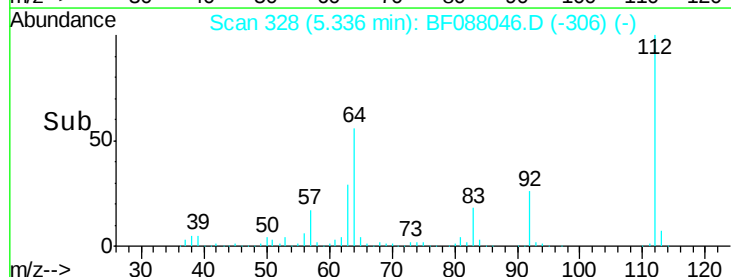
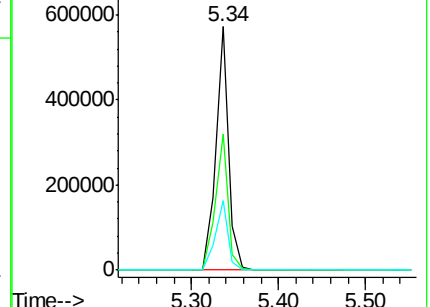
63 28.5 21.8 32.8

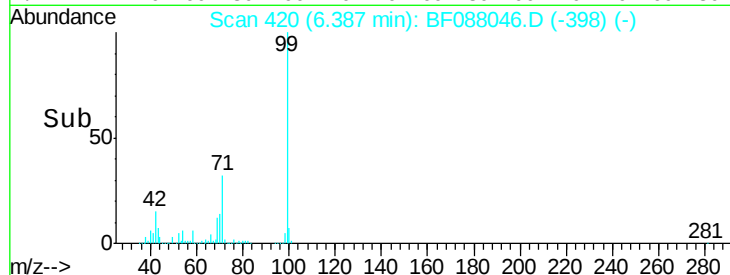
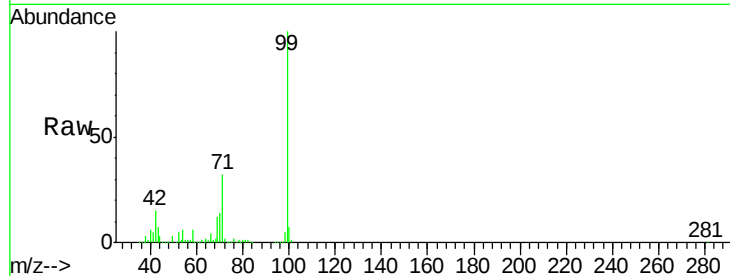
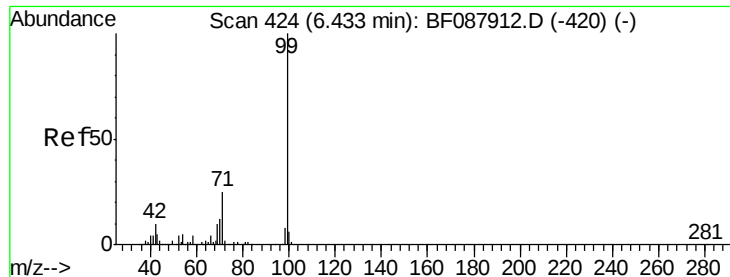


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 110.87 ng

RT: 6.39 min Scan# 420

Delta R.T. -0.05 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

Instrument :

BNA\_F

ClientSampleId :

181-05-EB-06142016

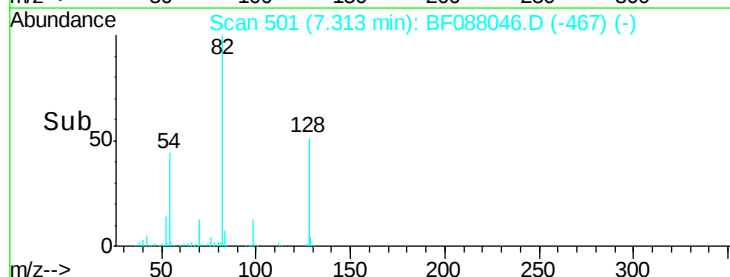
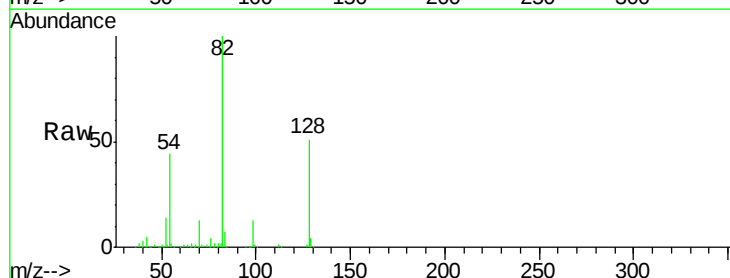
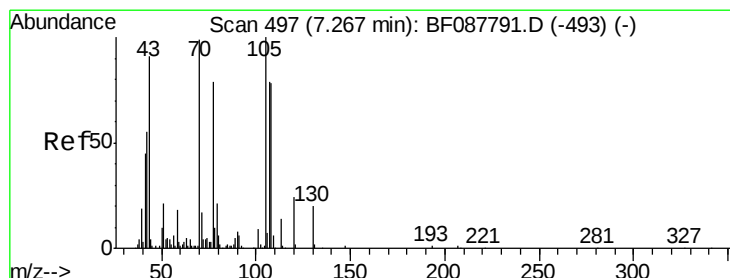
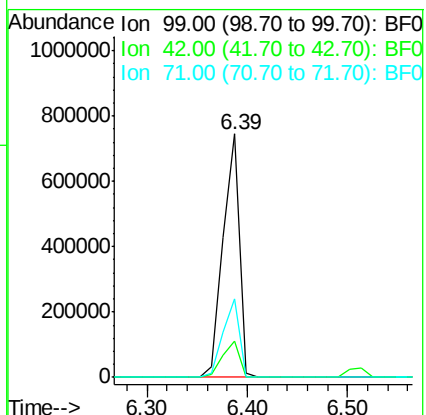
Tgt Ion: 99 Resp: 842012

Ion Ratio Lower Upper

99 100

42 14.8 12.2 18.2

71 32.4 23.4 35.0



#19

n-Nitroso-di-n-propylamine

Concen: 14.23 ng

RT: 7.31 min Scan# 501

Delta R.T. 0.09 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

Tgt Ion: 70 Resp: 69131

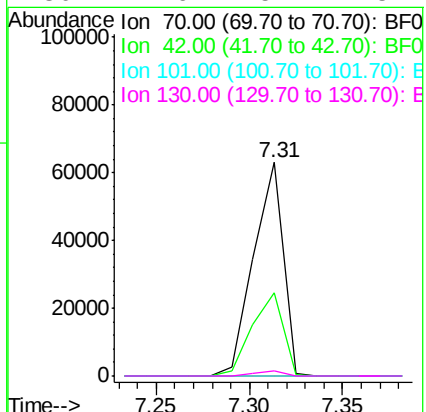
Ion Ratio Lower Upper

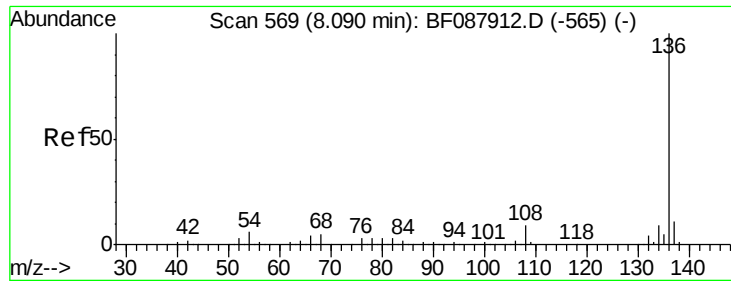
70 100

42 38.9 49.6 74.4#

101 0.0 7.1 10.7#

130 2.6 15.4 23.2#

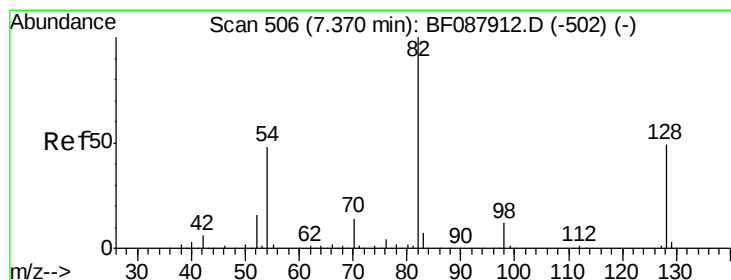
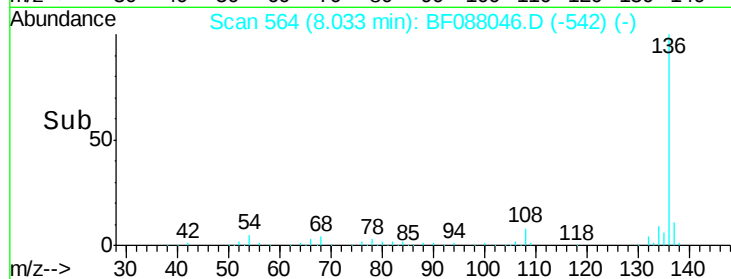
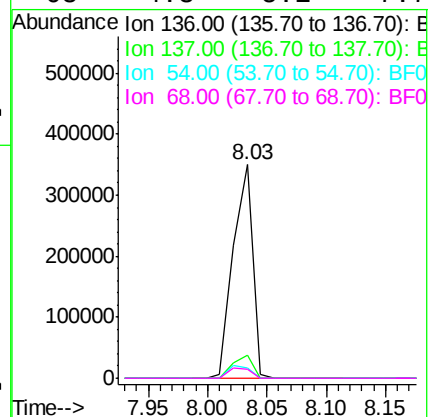
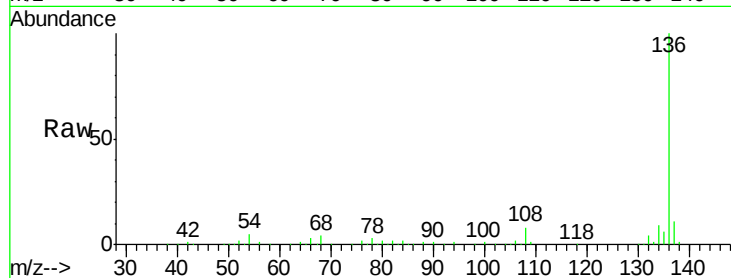




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.03 min Scan# 564  
Delta R.T. -0.05 min  
Lab File: BF088046.D  
Acq: 15 Jun 2016 21:06

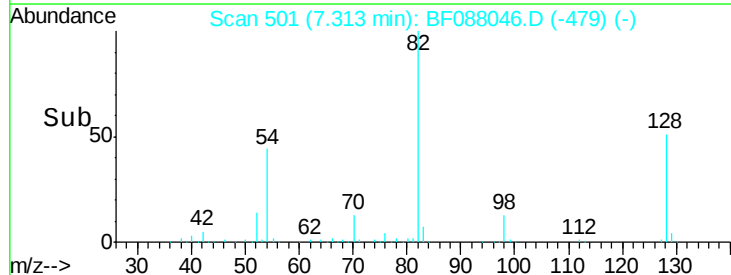
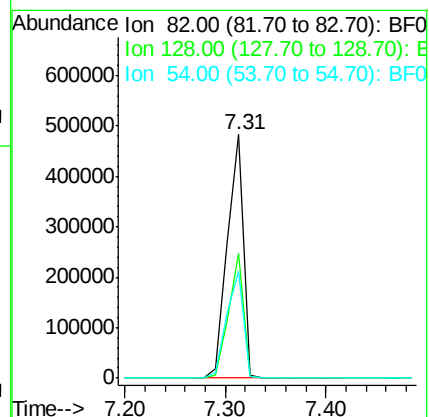
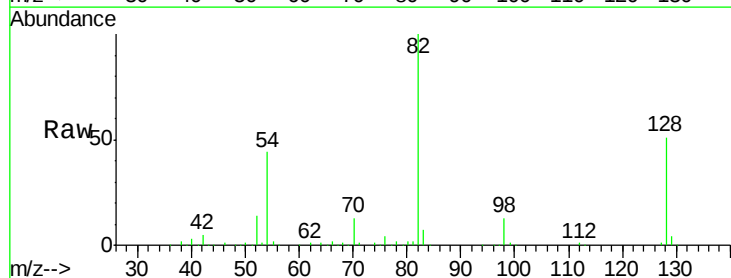
Instrument :  
BNA\_F  
ClientSampleId :  
181-05-EB-06142016

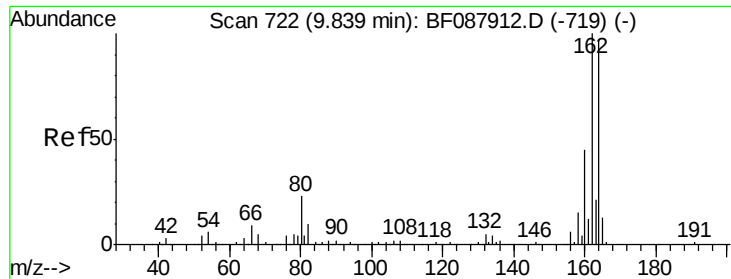
Tgt Ion: 136 Resp: 398582  
Ion Ratio Lower Upper  
136 100  
137 10.5 9.1 13.7  
54 5.0 6.6 10.0#  
68 4.3 5.1 7.7#



#23  
Nitrobenzene-d5  
Concen: 78.11 ng  
RT: 7.31 min Scan# 501  
Delta R.T. -0.05 min  
Lab File: BF088046.D  
Acq: 15 Jun 2016 21:06

Tgt Ion: 82 Resp: 533133  
Ion Ratio Lower Upper  
82 100  
128 51.3 35.9 53.9  
54 43.9 40.9 61.3





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 717

Delta R.T. -0.06 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

Instrument :

BNA\_F

ClientSampleId :

181-05-EB-06142016

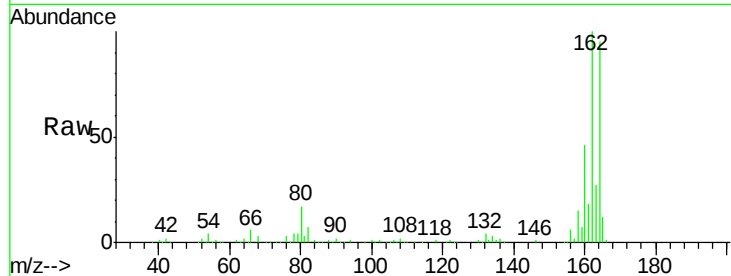
Tgt Ion:164 Resp: 183619

Ion Ratio Lower Upper

164 100

162 105.0 85.4 128.2

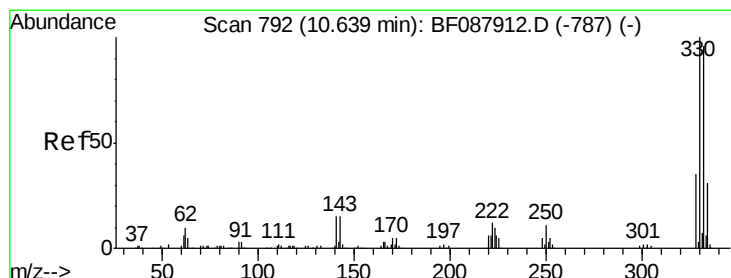
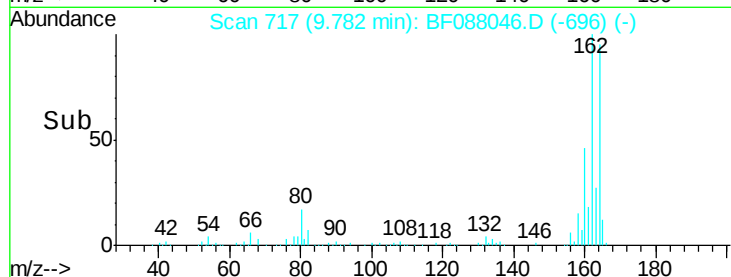
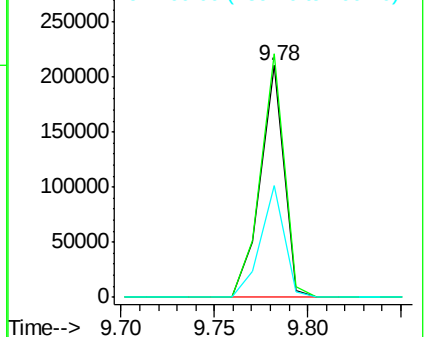
160 48.0 39.5 59.3



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: 83.08 ng

RT: 10.57 min Scan# 786

Delta R.T. -0.06 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

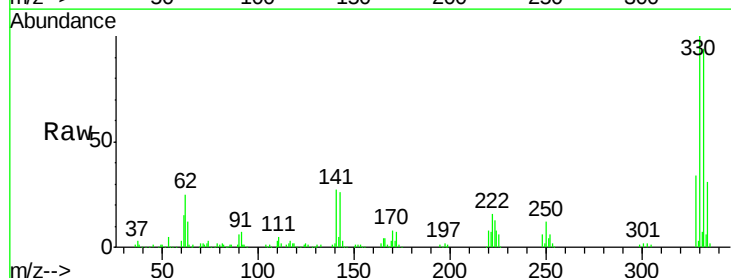
Tgt Ion:330 Resp: 161070

Ion Ratio Lower Upper

330 100

332 94.2 0.0 0.0#

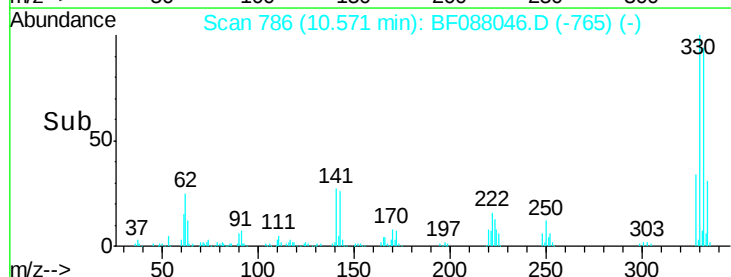
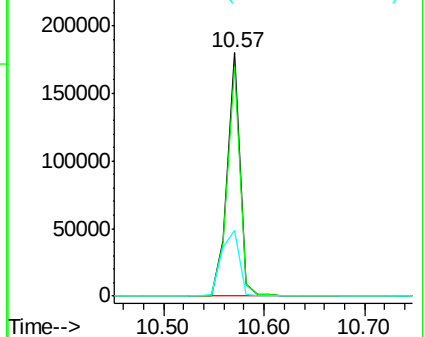
141 37.5 0.0 0.0#

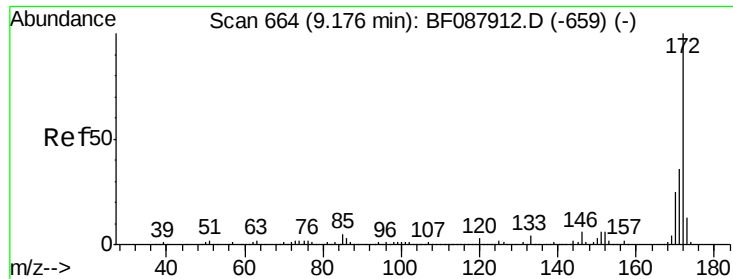


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

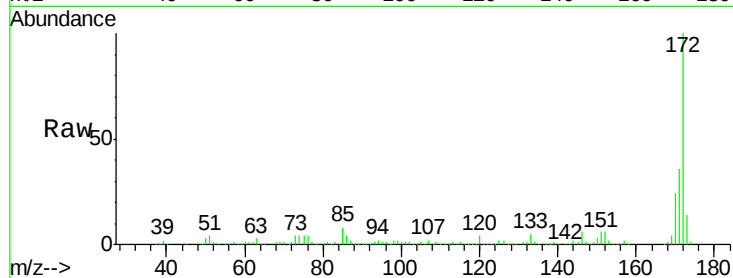




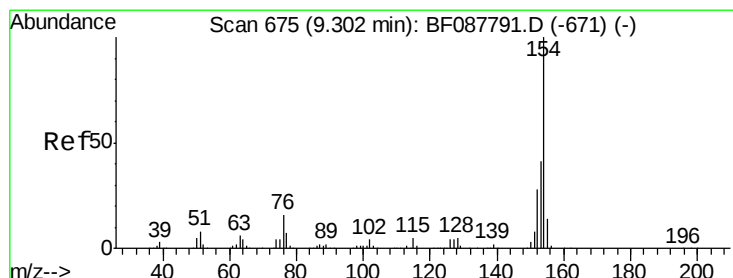
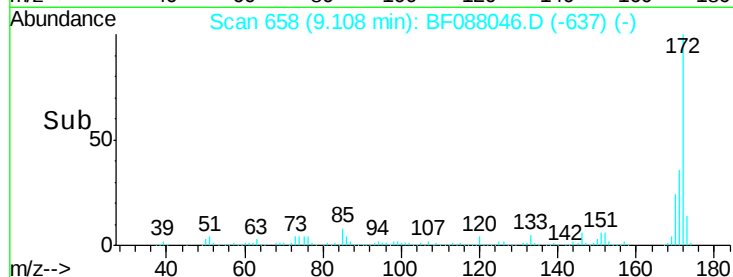
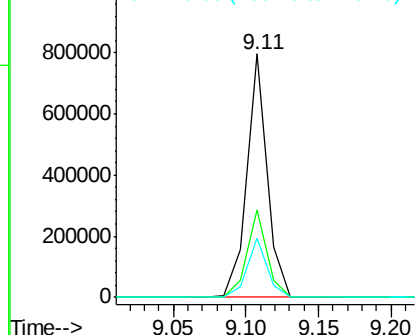
#44  
 2-Fluorobiphenyl  
 Concen: 64.70 ng  
 RT: 9.11 min Scan# 658  
 Delta R.T. -0.06 min  
 Lab File: BF088046.D  
 Acq: 15 Jun 2016 21:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 181-05-EB-06142016

Tgt Ion:172 Resp: 771756  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 28.6 43.0  
 170 24.2 19.2 28.8

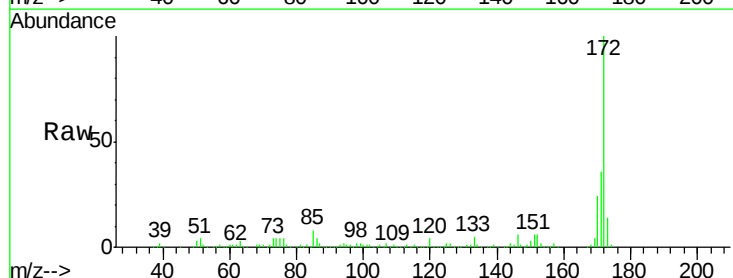


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

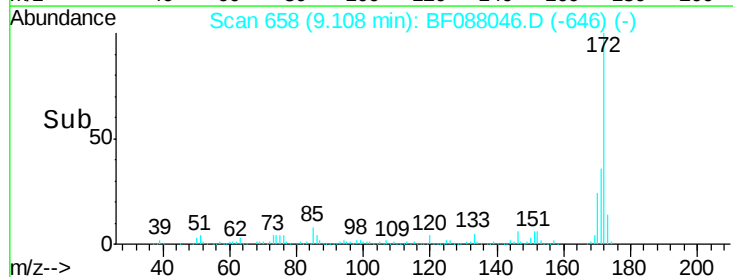
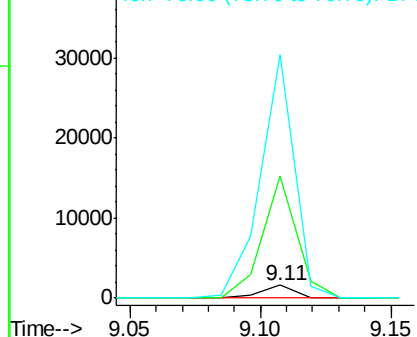


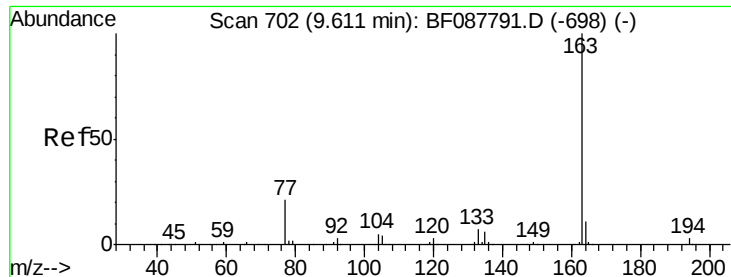
#45  
 1,1'-Biphenyl  
 Concen: Below Cal  
 RT: 9.11 min Scan# 658  
 Delta R.T. -0.16 min  
 Lab File: BF088046.D  
 Acq: 15 Jun 2016 21:06

Tgt Ion:154 Resp: 1380  
 Ion Ratio Lower Upper  
 154 100  
 153 962.1 20.6 60.6#  
 76 1912.6 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: 12.00 ng

RT: 9.51 min Scan# 693

Delta R.T. -0.06 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

Instrument :

BNA\_F

ClientSampleId :

181-05-EB-06142016

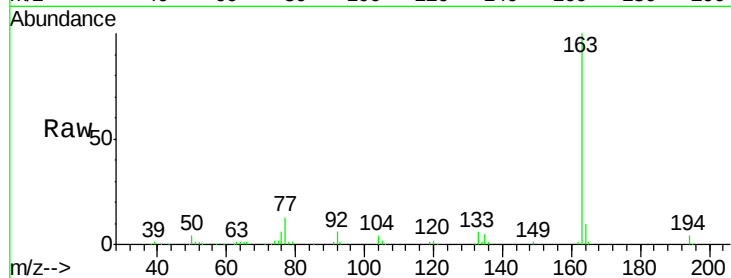
Tgt Ion:163 Resp: 159629

Ion Ratio Lower Upper

163 100

194 3.7 2.8 4.2

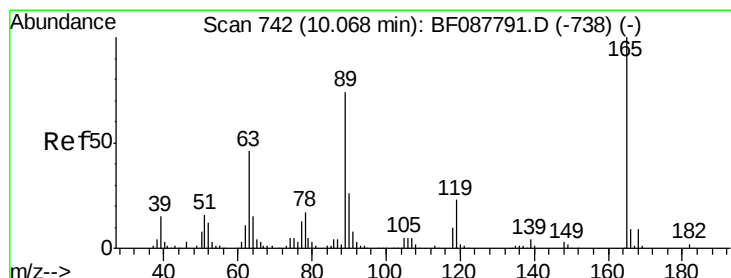
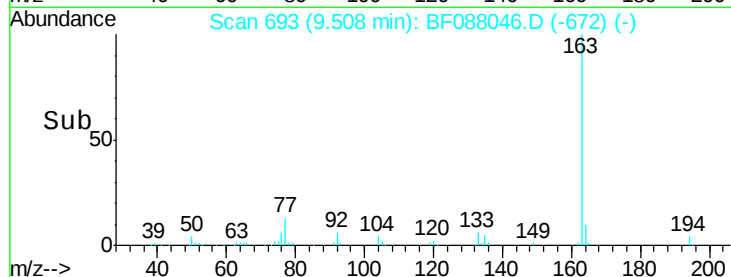
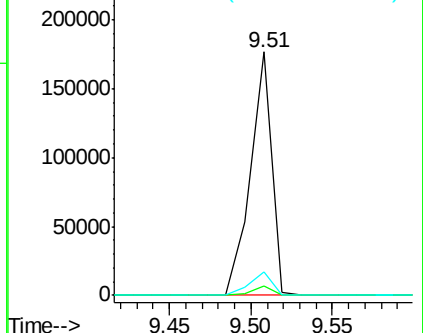
164 9.6 8.3 12.5



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: 6.08 ng

RT: 9.78 min Scan# 717

Delta R.T. -0.25 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

Tgt Ion:165 Resp: 23791

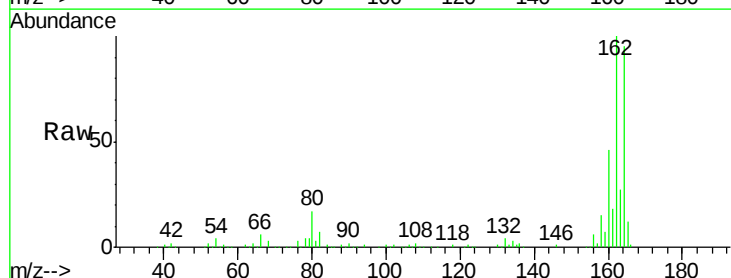
Ion Ratio Lower Upper

165 100

63 1.2 22.0 33.0#

89 1.2 41.1 61.7#

182 0.0 2.0 3.0#

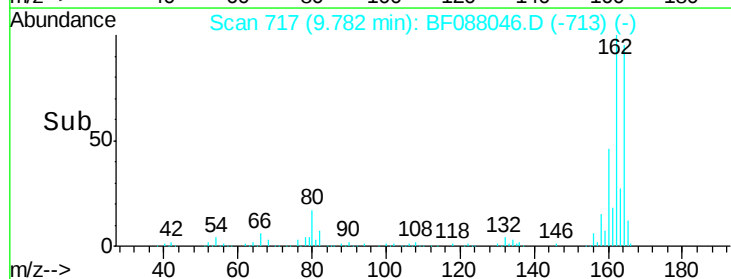
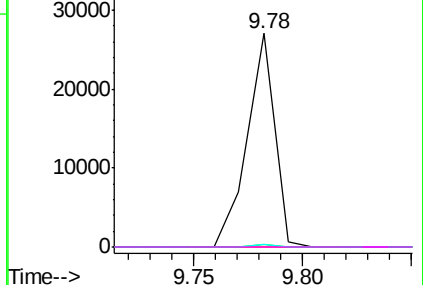


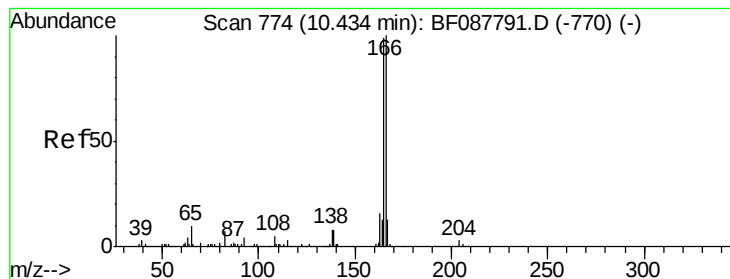
Abundance Ion 165.00 (164.70 to 165.70): E

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: 10.57 min Scan# 786

Delta R.T. 0.18 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

Instrument :

BNA\_F

ClientSampleId :

181-05-EB-06142016

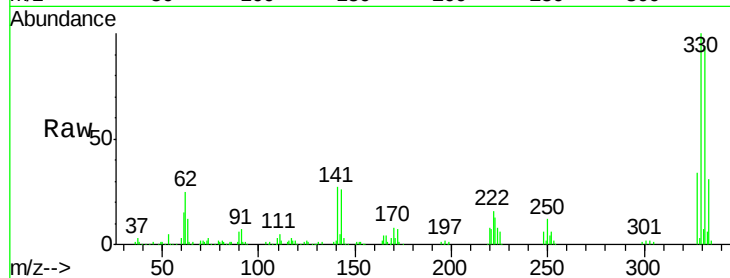
Tgt Ion:166 Resp: 8246

Ion Ratio Lower Upper

166 100

165 105.9 77.8 116.8

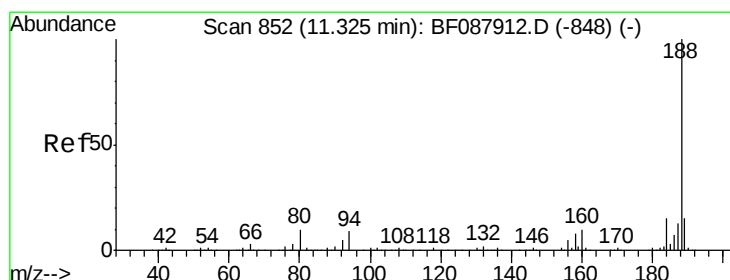
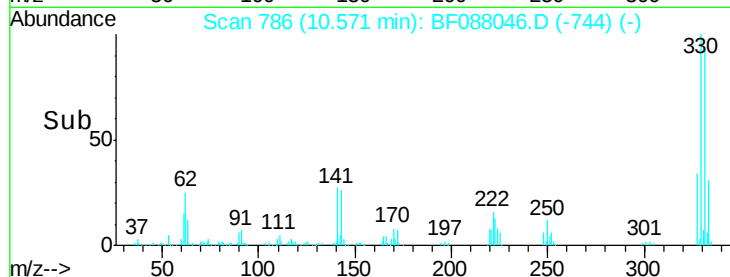
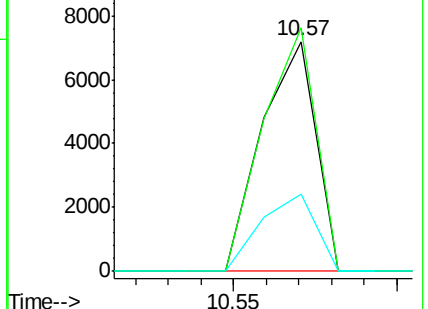
167 33.8 11.2 16.8#



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: 11.26 min Scan# 846

Delta R.T. -0.06 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

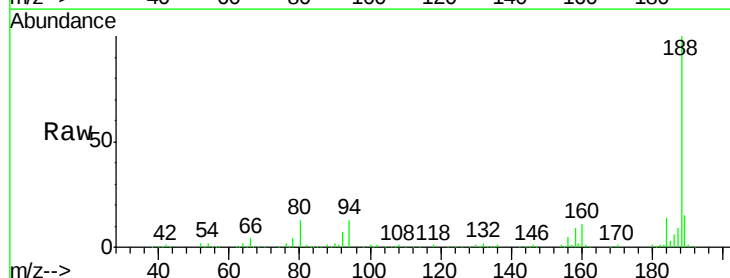
Tgt Ion:188 Resp: 279926

Ion Ratio Lower Upper

188 100

94 12.6 9.0 13.6

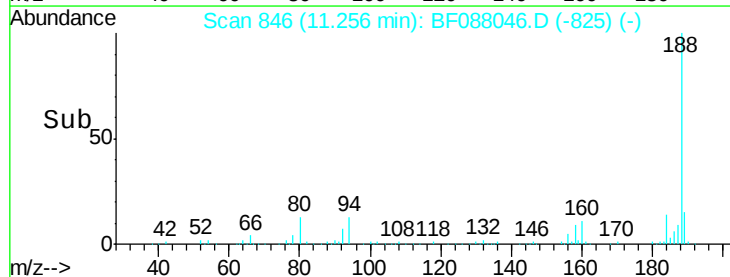
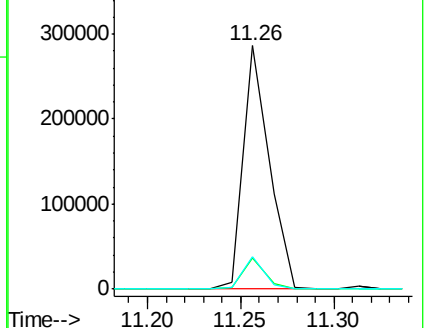
80 13.4 10.0 15.0

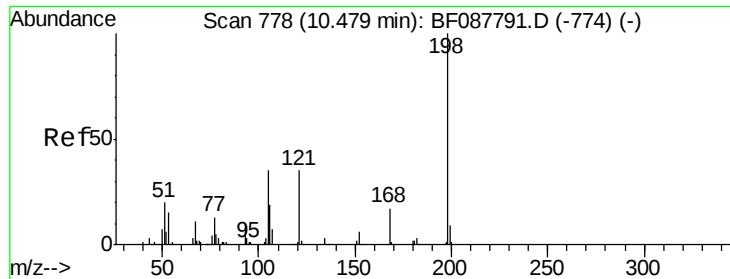


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 2.28 ng

RT: 10.57 min Scan# 786

Delta R.T. 0.14 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

Instrument :

BNA\_F

ClientSampleId :

181-05-EB-06142016

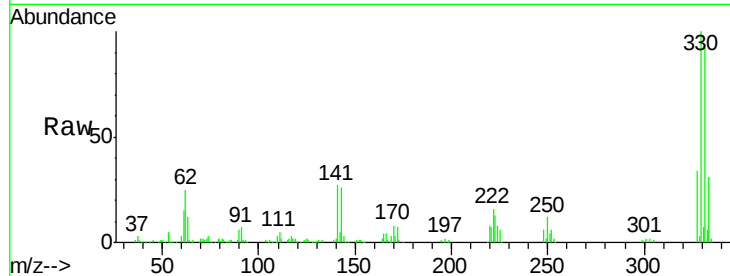
Tgt Ion:198 Resp: 211

Ion Ratio Lower Upper

198 100

51 133.1 39.6 79.6#

105 195.8 36.6 76.6#

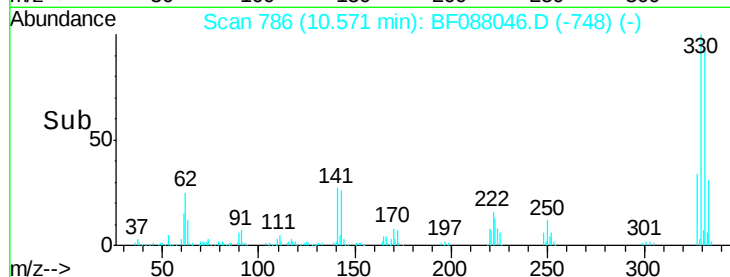


Abundance Ion 198.00 (197.70 to 198.70): E

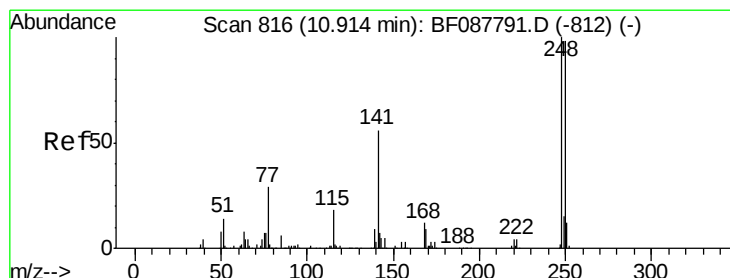
Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

Time-->



Time-->



#66

4-Bromophenyl-phenylether

Concen: 3.53 ng

RT: 10.57 min Scan# 786

Delta R.T. -0.30 min

Lab File: BF088046.D

Acq: 15 Jun 2016 21:06

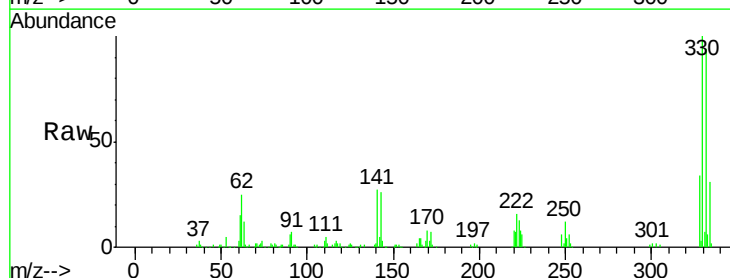
Tgt Ion:248 Resp: 10601

Ion Ratio Lower Upper

248 100

250 192.0 77.1 115.7#

141 430.7 50.6 76.0#

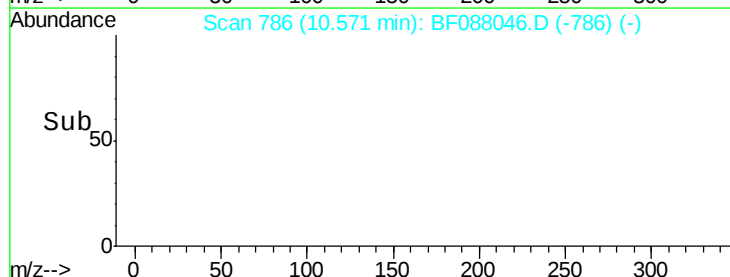


Abundance Ion 248.00 (247.70 to 248.70): E

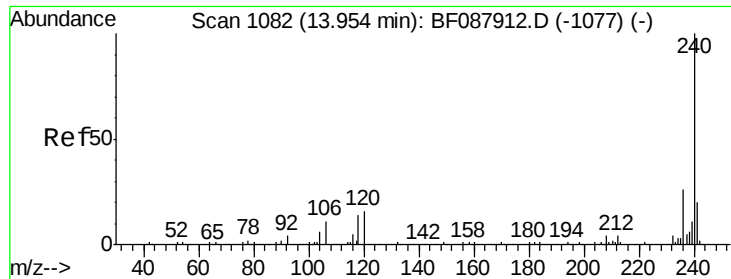
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

Time-->



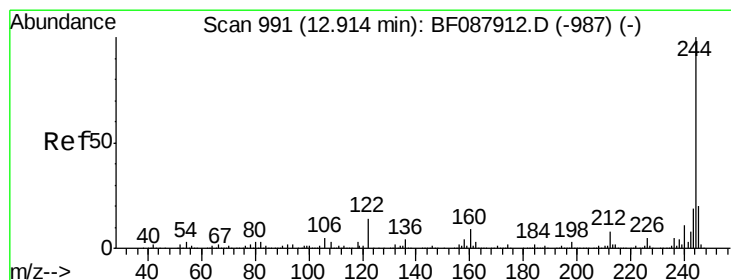
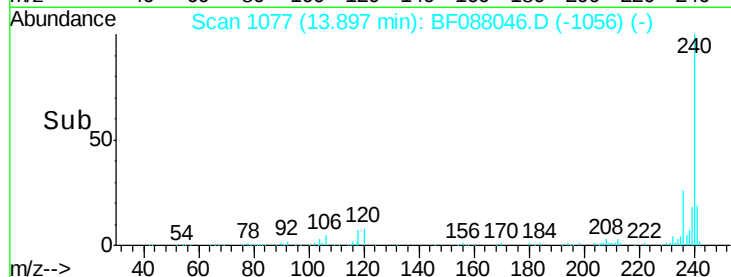
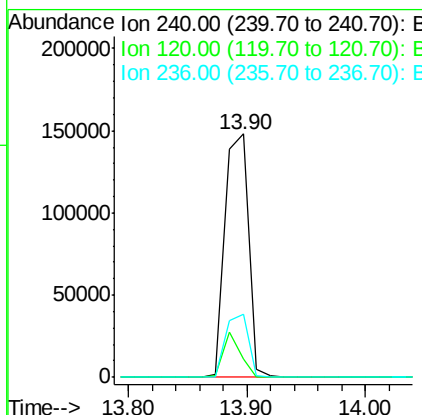
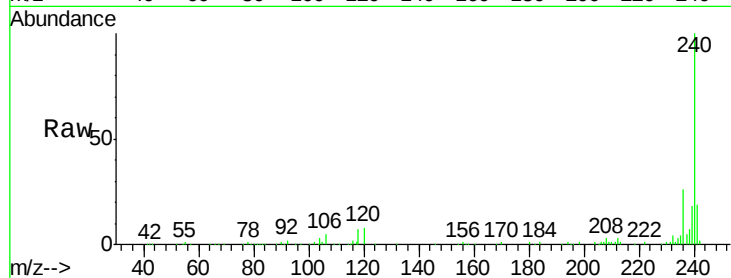
Time-->



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.90 min Scan# 1077  
Delta R.T. -0.06 min  
Lab File: BF088046.D  
Acq: 15 Jun 2016 21:06

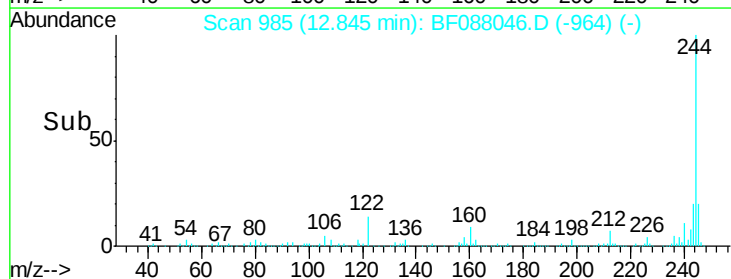
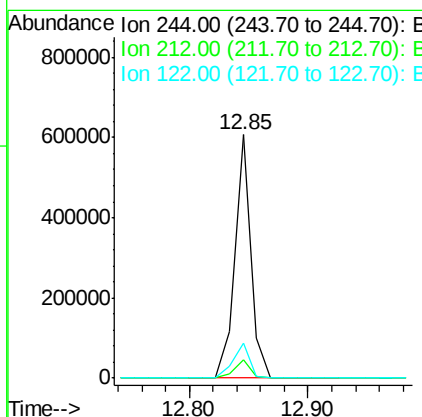
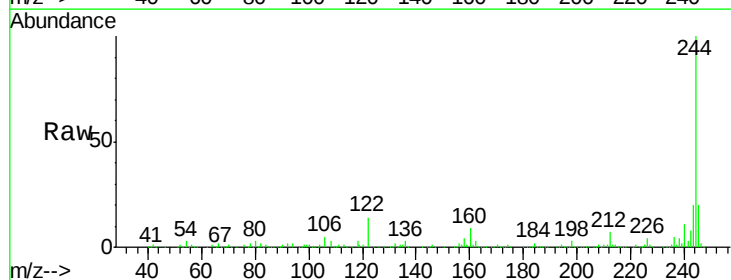
Instrument :  
BNA\_F  
ClientSampleId :  
181-05-EB-06142016

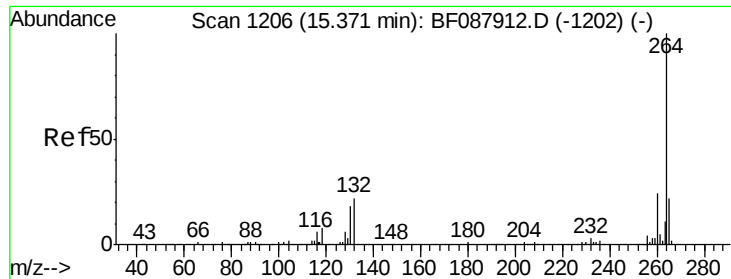
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 7.5   | 6.8   | 10.2  |
| 236     | 25.8  | 20.2  | 30.2  |



#78  
Terphenyl-d14  
Concen: 63.63 ng  
RT: 12.85 min Scan# 985  
Delta R.T. -0.06 min  
Lab File: BF088046.D  
Acq: 15 Jun 2016 21:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.4   | 6.0   | 9.0   |
| 122     | 14.3  | 11.2  | 16.8  |





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 1199  
Delta R.T. -0.07 min  
Lab File: BF088046.D  
Acq: 15 Jun 2016 21:06

Instrument :  
BNA\_F  
ClientSampleId :  
181-05-EB-06142016

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.2  | 28.8  |
| 265     | 21.4  | 16.9  | 25.3  |

