

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061816\  
 Data File : BF088148.D  
 Acq On : 18 Jun 2016 21:59  
 Operator : UM/SJ  
 Sample : H3580-05  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P8-B6(8-16)C

Quant Time: Jun 19 07:51:43 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 17 16:09:13 2016  
 Response via : Initial Calibration

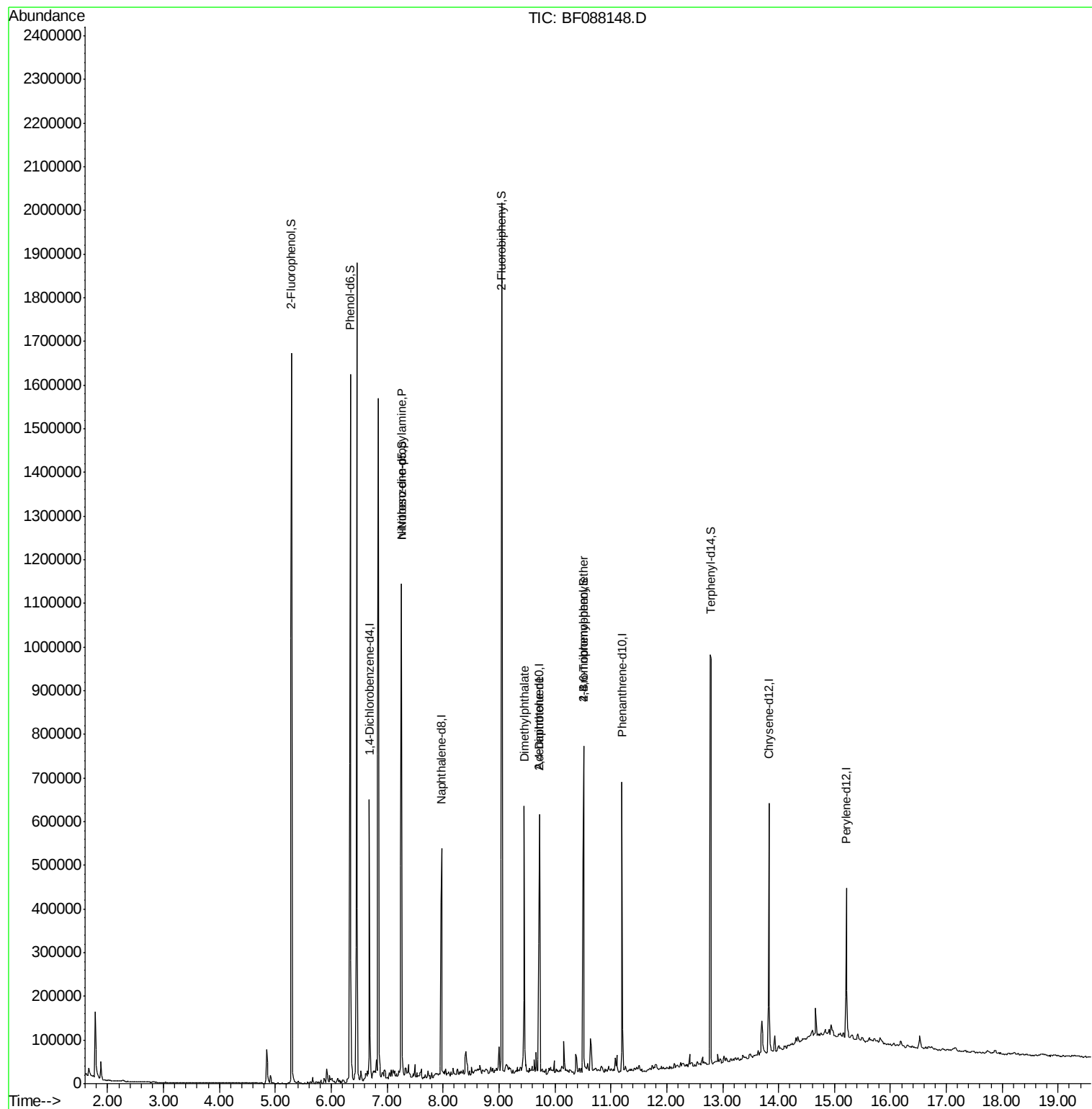
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.68  | 152  | 92539    | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.98  | 136  | 331184   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.72  | 164  | 134162   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.20 | 188  | 220479   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.83 | 240  | 178933   | 20.00     | ng    | -0.02    |
| 86) Perylene-d12               | 15.21 | 264  | 135847   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.29  | 112  | 619778   | 114.50    | ng    | 0.01     |
| 7) Phenol-d6                   | 6.34  | 99   | 647256   | 98.66     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.26  | 82   | 410161   | 72.32     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.51 | 330  | 113002   | 79.77     | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.05  | 172  | 616637   | 71.31     | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.79 | 244  | 446575   | 56.79     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 10) Phenol                     | 6.35  | 94   | 8121     | Below Cal | #     | 51       |
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70   | 56476    | 13.46 ng  | #     | 70       |
| 45) 1,1'-Biphenyl              | 9.15  | 154  | 316      | Below Cal | #     | 43       |
| 49) Dimethylphthalate          | 9.45  | 163  | 249664   | 25.69 ng  |       | 99       |
| 56) 2,4-Dinitrotoluene         | 9.72  | 165  | 17303    | 6.05 ng   | #     | 36       |
| 57) Fluorene                   | 10.27 | 166  | 543      | Below Cal | #     | 54       |
| 66) 4-Bromophenyl-phenylether  | 10.51 | 248  | 7479     | 3.16 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: 6.68 min Scan# 446

Delta R.T. -0.01 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

Instrument :

BNA\_F

ClientSampleId :

P8-B6(8-16)C

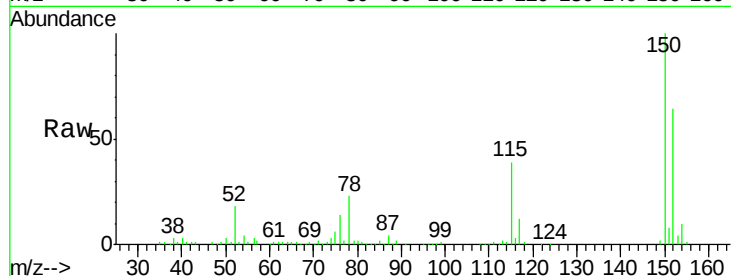
Tgt Ion:152 Resp: 92539

Ion Ratio Lower Upper

152 100

150 157.3 123.8 185.6

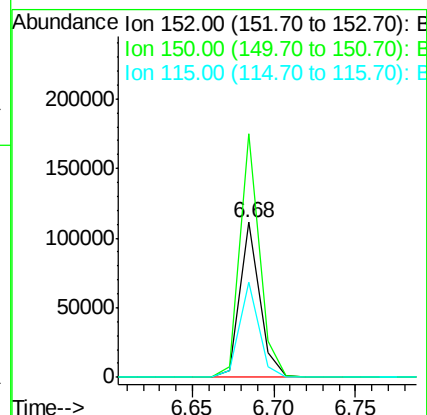
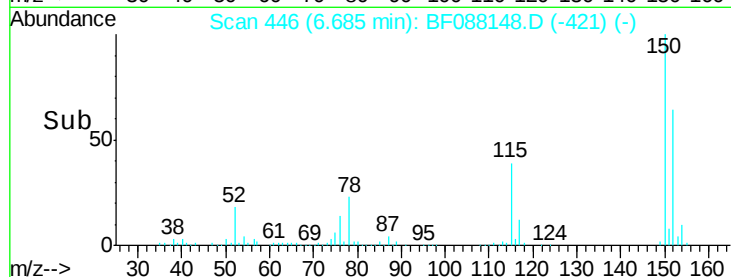
115 61.1 39.6 59.4#



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: 114.50 ng

RT: 5.29 min Scan# 324

Delta R.T. 0.01 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

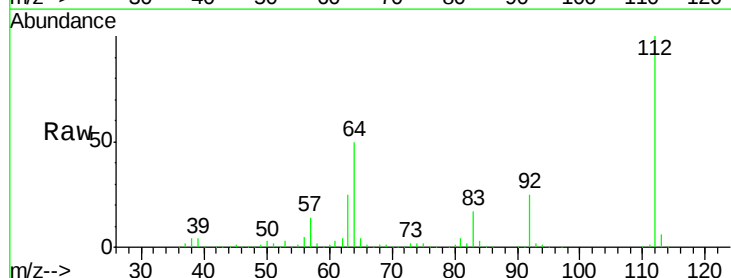
Tgt Ion:112 Resp: 619778

Ion Ratio Lower Upper

112 100

64 49.5 42.2 63.2

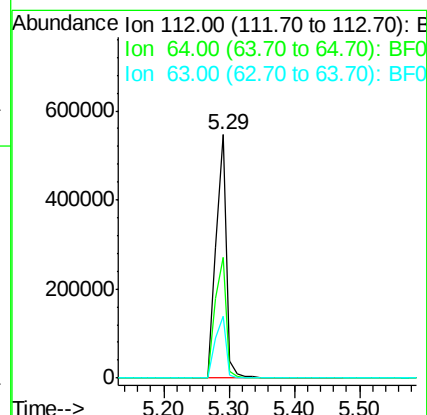
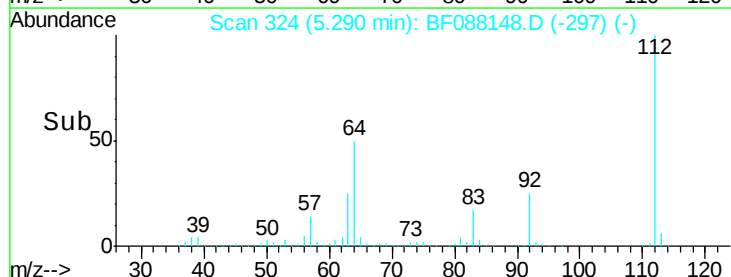
63 25.3 21.8 32.8

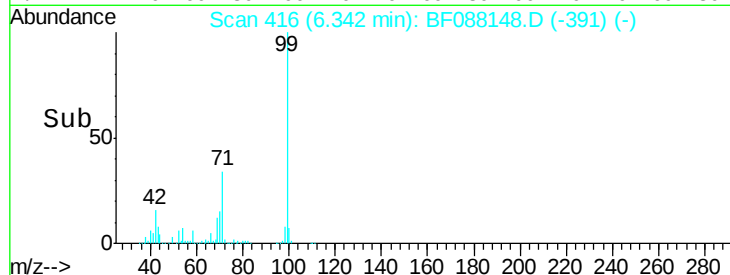
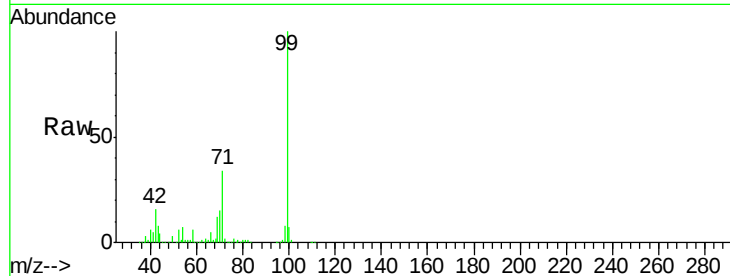


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 98.66 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.01 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

Instrument :

BNA\_F

ClientSampleId :

P8-B6(8-16)C

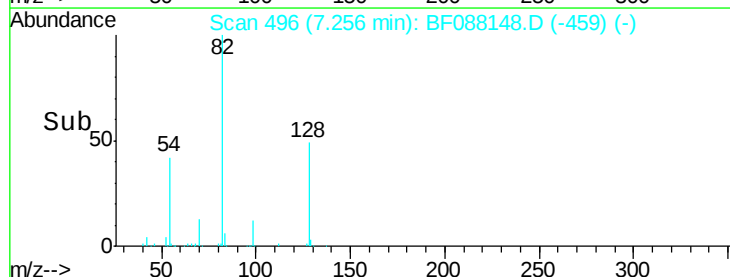
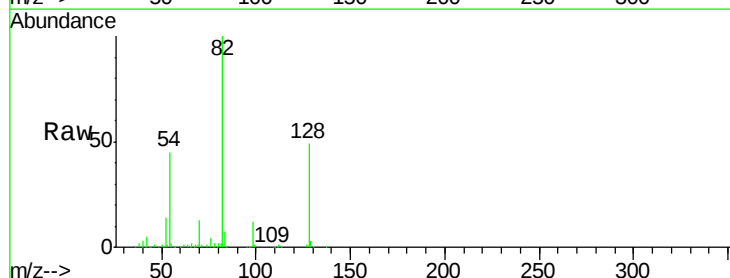
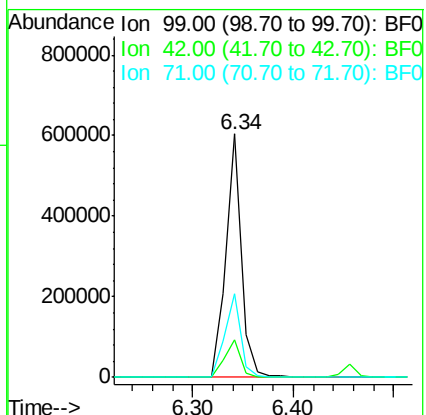
Tgt Ion: 99 Resp: 647256

Ion Ratio Lower Upper

99 100

42 15.5 12.2 18.2

71 34.2 23.4 35.0



#19

n-Nitroso-di-n-propylamine

Concen: 13.46 ng

RT: 7.26 min Scan# 496

Delta R.T. 0.13 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

Tgt Ion: 70 Resp: 56476

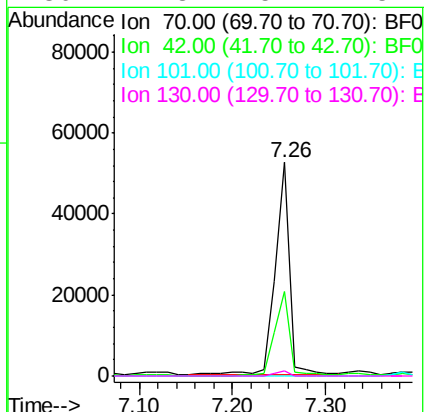
Ion Ratio Lower Upper

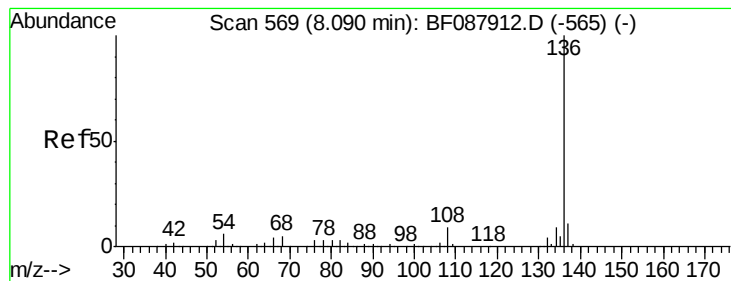
70 100

42 39.8 49.6 74.4#

101 0.0 7.1 10.7#

130 2.3 15.4 23.2#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.98 min Scan# 559

Delta R.T. -0.01 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

Instrument :

BNA\_F

ClientSampleId :

P8-B6(8-16)C

Tgt Ion:136 Resp: 331184

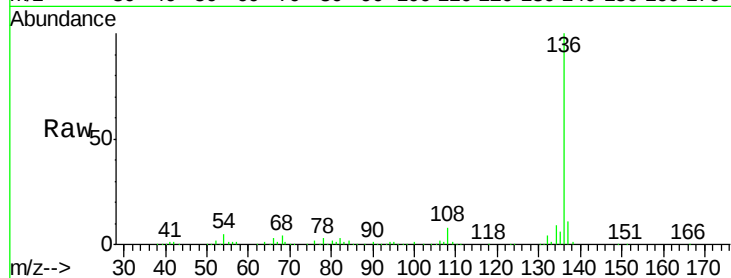
Ion Ratio Lower Upper

136 100

137 10.6 9.1 13.7

54 4.8 6.6 10.0#

68 4.4 5.1 7.7#

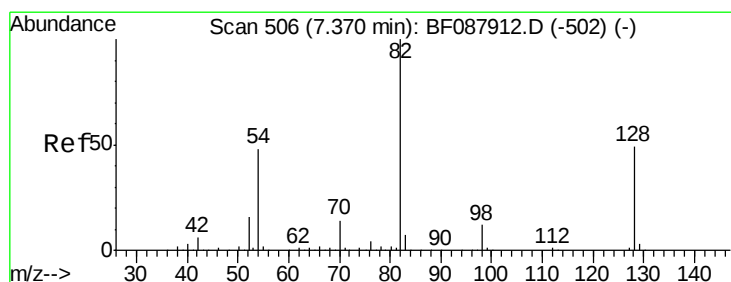
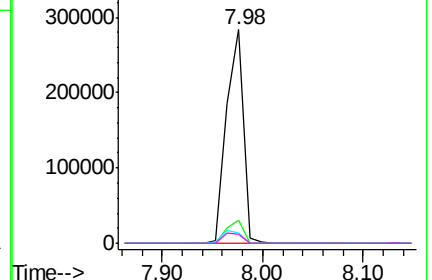
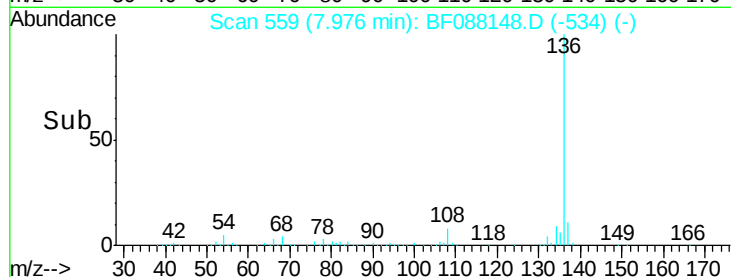


Abundance Ion 136.00 (135.70 to 136.70): E

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: 72.32 ng

RT: 7.26 min Scan# 496

Delta R.T. -0.02 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

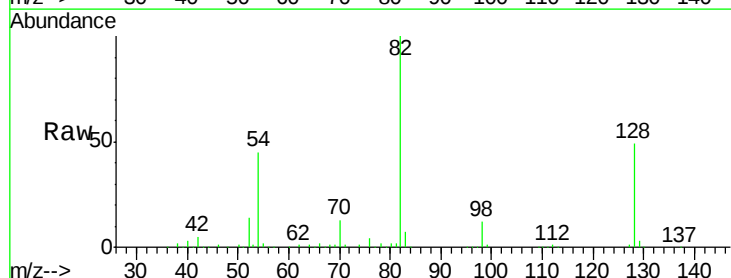
Tgt Ion: 82 Resp: 410161

Ion Ratio Lower Upper

82 100

128 49.1 35.9 53.9

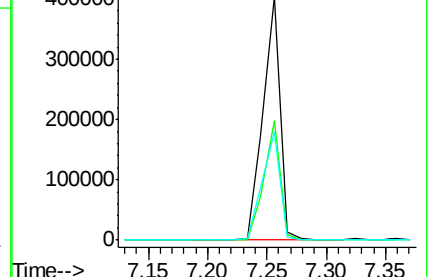
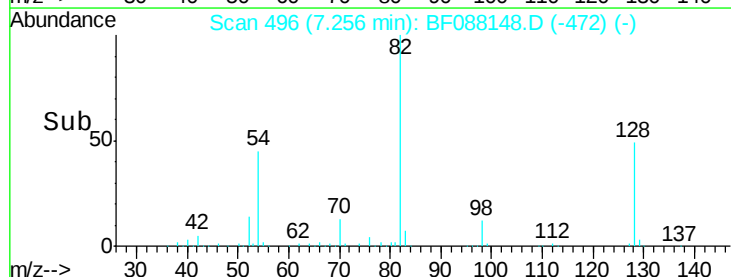
54 44.6 40.9 61.3

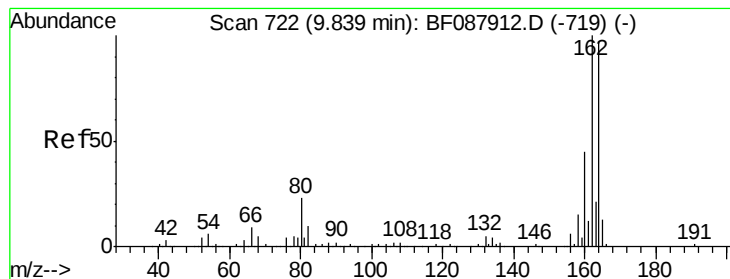


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.72 min Scan# 712

Delta R.T. -0.01 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

Instrument :

BNA\_F

ClientSampleId :

P8-B6(8-16)C

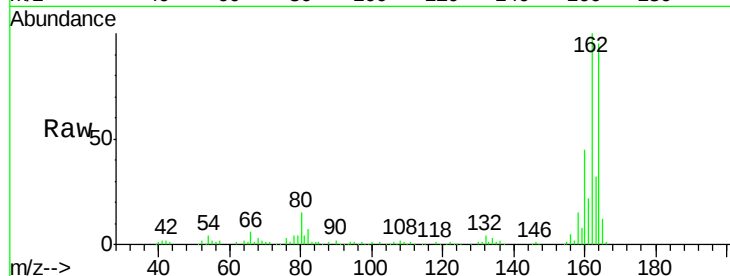
Tgt Ion:164 Resp: 134162

Ion Ratio Lower Upper

164 100

162 105.6 85.4 128.2

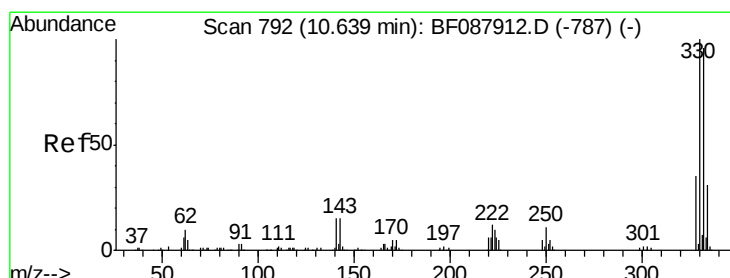
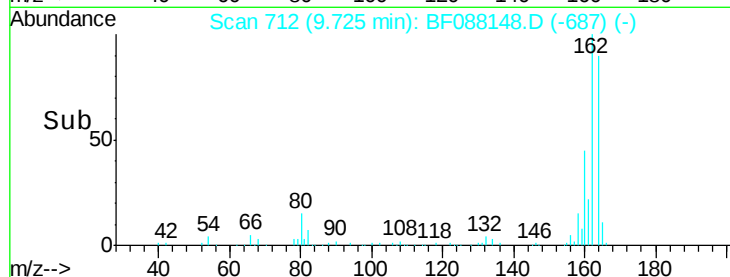
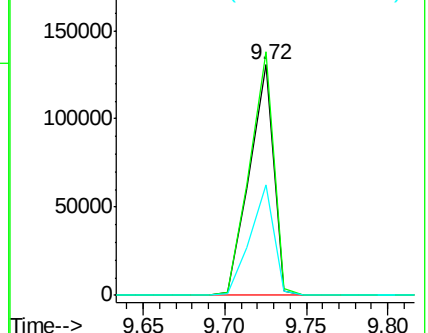
160 47.7 39.5 59.3



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: 79.77 ng

RT: 10.51 min Scan# 781

Delta R.T. -0.01 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

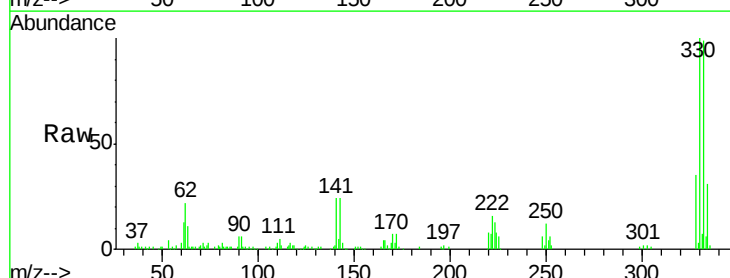
Tgt Ion:330 Resp: 113002

Ion Ratio Lower Upper

330 100

332 97.5 0.0 0.0#

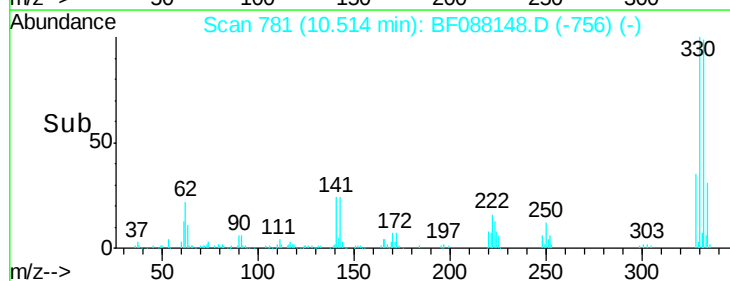
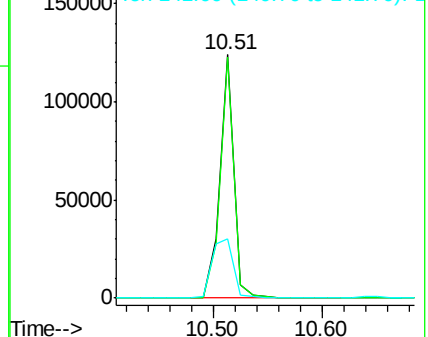
141 38.3 0.0 0.0#

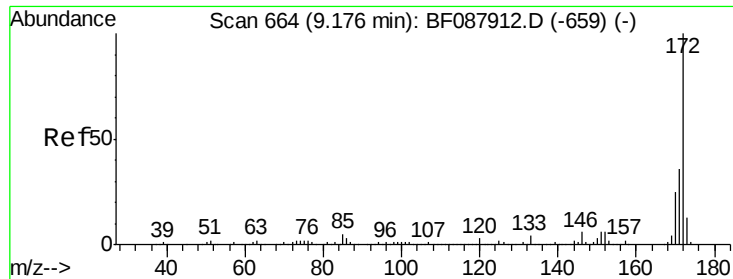


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

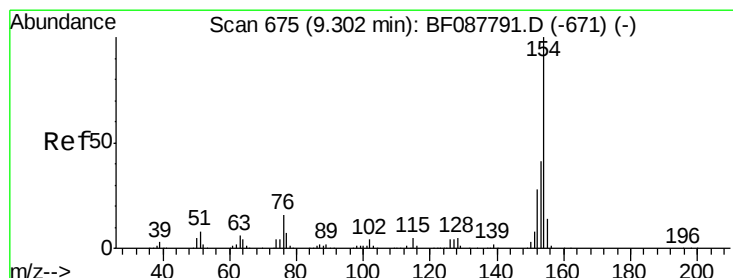
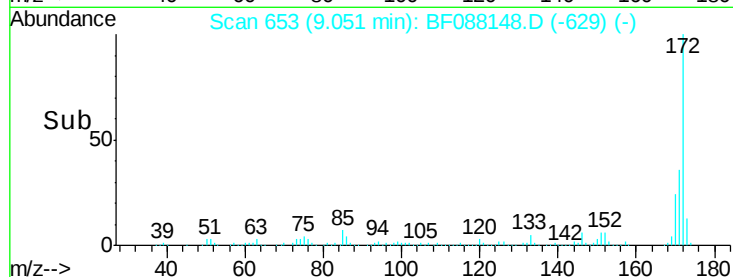
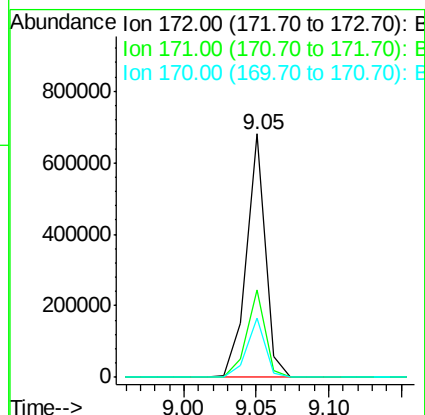
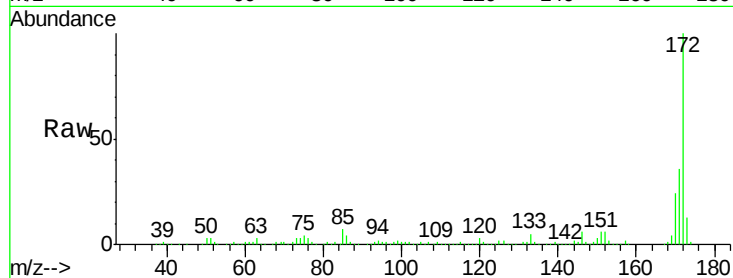




#44  
 2-Fluorobiphenyl  
 Concen: 71.31 ng  
 RT: 9.05 min Scan# 653  
 Delta R.T. -0.02 min  
 Lab File: BF088148.D  
 Acq: 18 Jun 2016 21:59

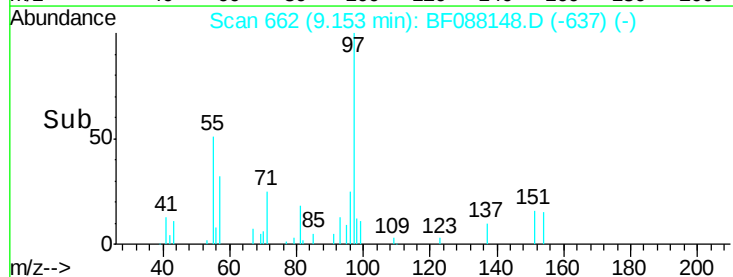
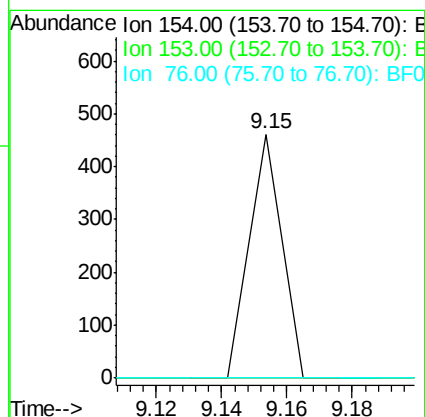
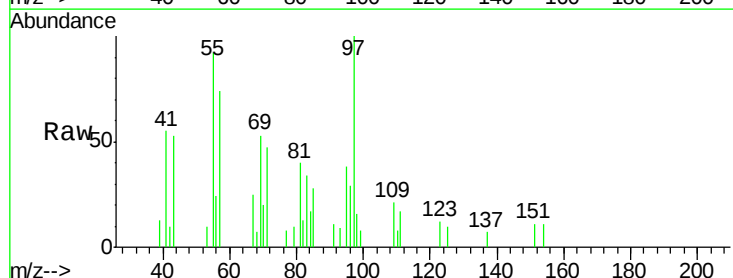
Instrument :  
 BNA\_F  
 ClientSampleId :  
 P8-B6(8-16)C

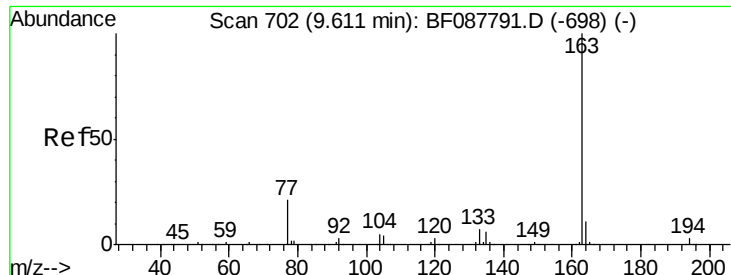
Tgt Ion:172 Resp: 616637  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 28.6 43.0  
 170 24.2 19.2 28.8



#45  
 1,1'-Biphenyl  
 Concen: Below Cal  
 RT: 9.15 min Scan# 662  
 Delta R.T. -0.01 min  
 Lab File: BF088148.D  
 Acq: 18 Jun 2016 21:59

Tgt Ion:154 Resp: 316  
 Ion Ratio Lower Upper  
 154 100  
 153 0.0 20.6 60.6#  
 76 0.0 0.0 35.1





#49

Dimethylphthalate

Concen: 25.69 ng

RT: 9.45 min Scan# 688

Delta R.T. -0.02 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

Instrument :

BNA\_F

ClientSampleId :

P8-B6(8-16)C

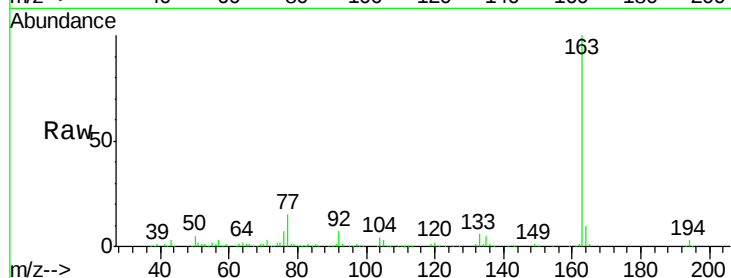
Tgt Ion:163 Resp: 249664

Ion Ratio Lower Upper

163 100

194 3.5 2.8 4.2

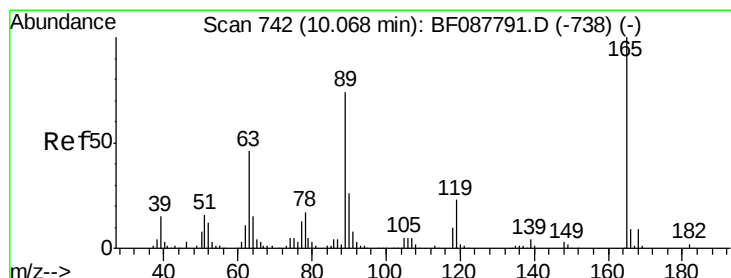
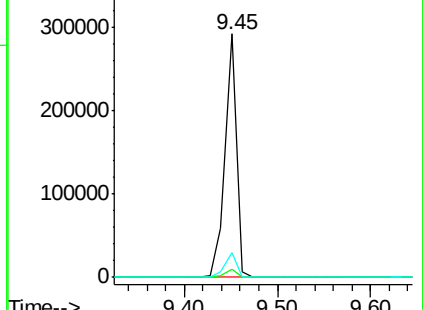
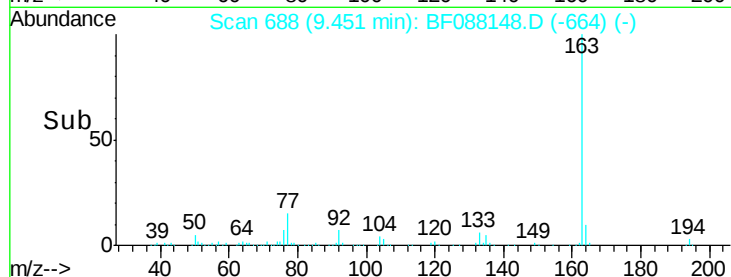
164 9.9 8.3 12.5



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: 6.05 ng

RT: 9.72 min Scan# 712

Delta R.T. -0.22 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

Tgt Ion:165 Resp: 17303

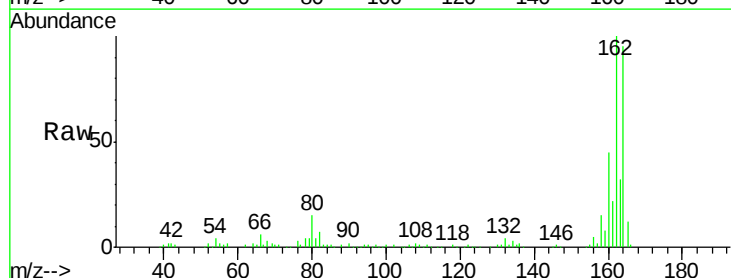
Ion Ratio Lower Upper

165 100

63 0.0 22.0 33.0#

89 0.0 41.1 61.7#

182 0.0 2.0 3.0#

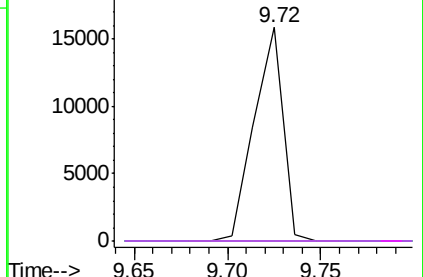
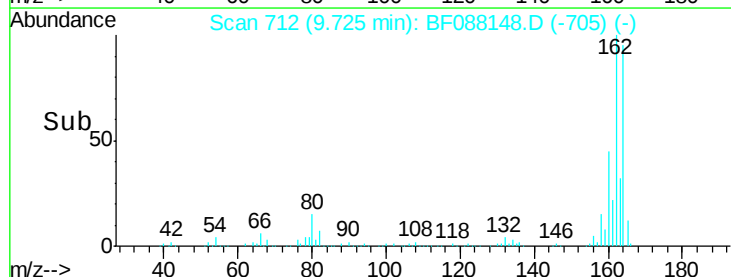


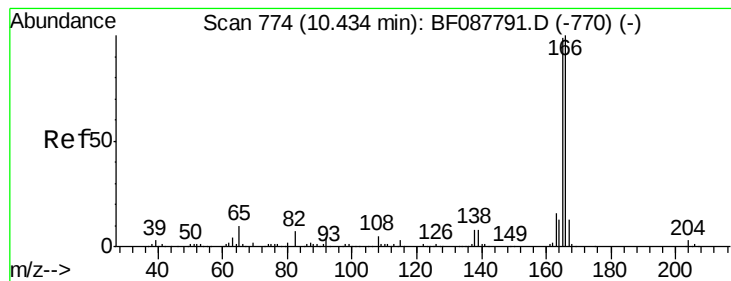
Abundance Ion 165.00 (164.70 to 165.70): E

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: 10.27 min Scan# 760

Delta R.T. -0.01 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

Instrument :

BNA\_F

ClientSampleId :

P8-B6(8-16)C

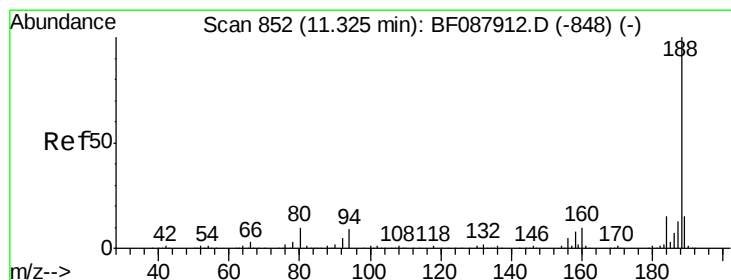
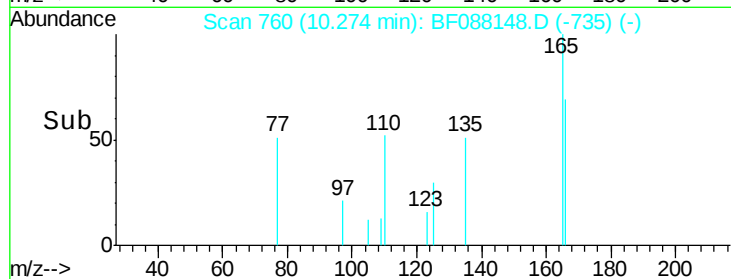
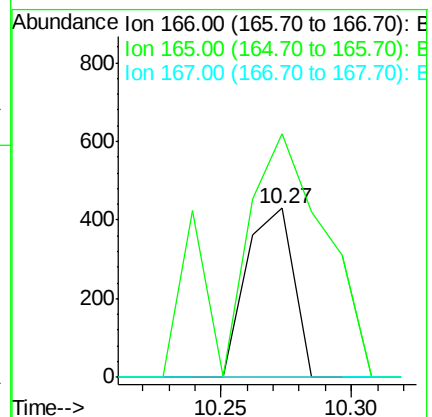
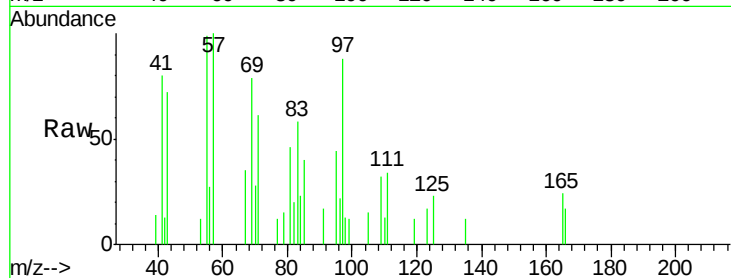
Tgt Ion:166 Resp: 543

Ion Ratio Lower Upper

166 100

165 144.0 77.8 116.8#

167 0.0 11.2 16.8#



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.20 min Scan# 841

Delta R.T. -0.01 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

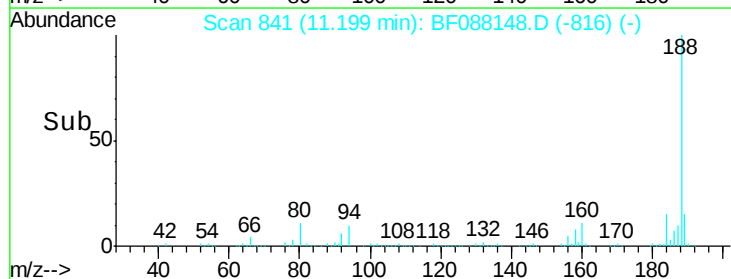
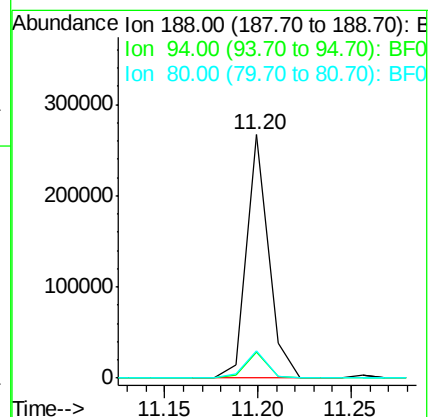
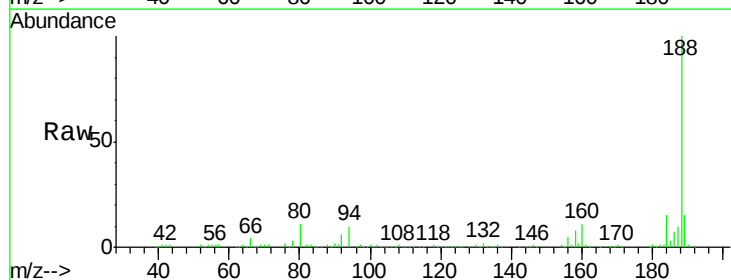
Tgt Ion:188 Resp: 220479

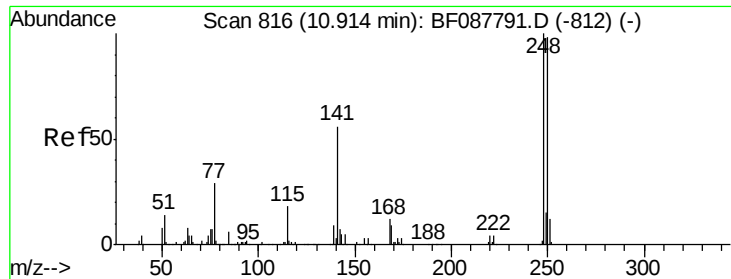
Ion Ratio Lower Upper

188 100

94 10.5 9.0 13.6

80 11.1 10.0 15.0





#66

4-Bromophenyl-phenylether

Concen: 3.16 ng

RT: 10.51 min Scan# 781

Delta R.T. -0.25 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

Instrument :

BNA\_F

ClientSampleId :

P8-B6(8-16)C

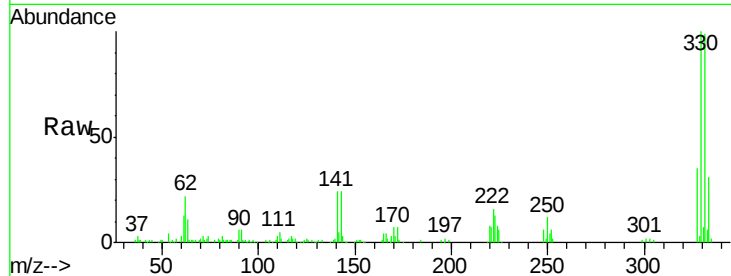
Tgt Ion:248 Resp: 7479

Ion Ratio Lower Upper

248 100

250 203.8 77.1 115.7#

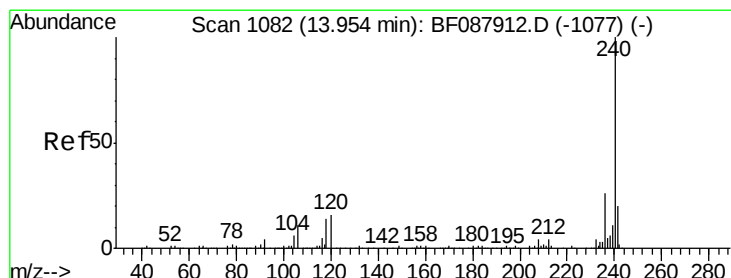
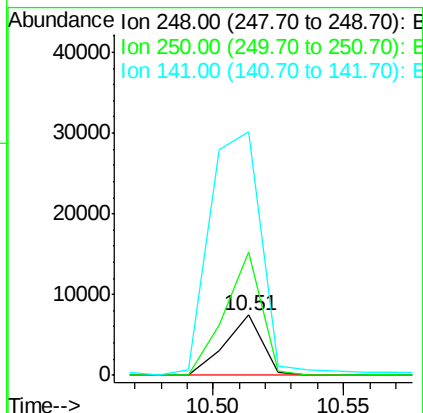
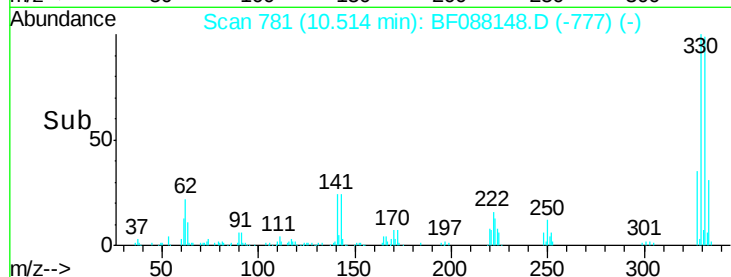
141 402.5 50.6 76.0#



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: 13.83 min Scan# 1071

Delta R.T. -0.02 min

Lab File: BF088148.D

Acq: 18 Jun 2016 21:59

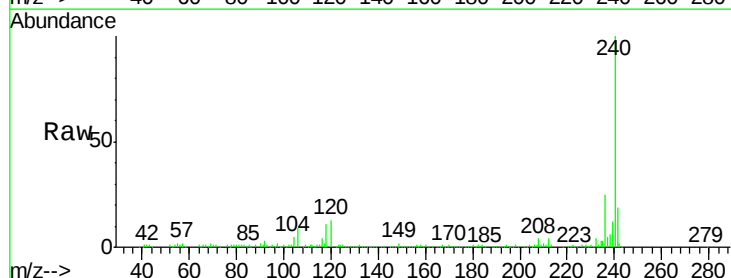
Tgt Ion:240 Resp: 178933

Ion Ratio Lower Upper

240 100

120 13.1 6.8 10.2#

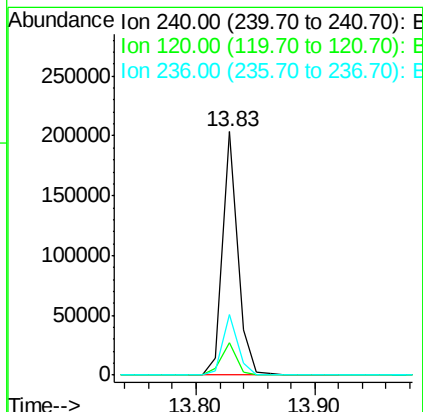
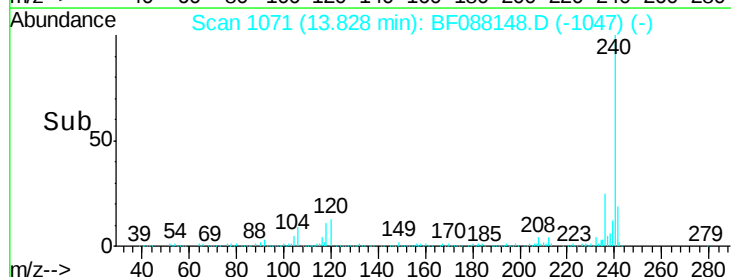
236 25.0 20.2 30.2

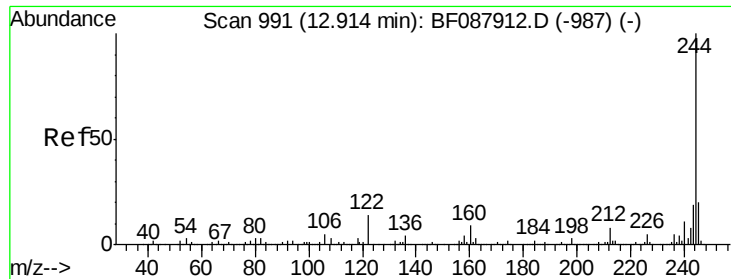


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

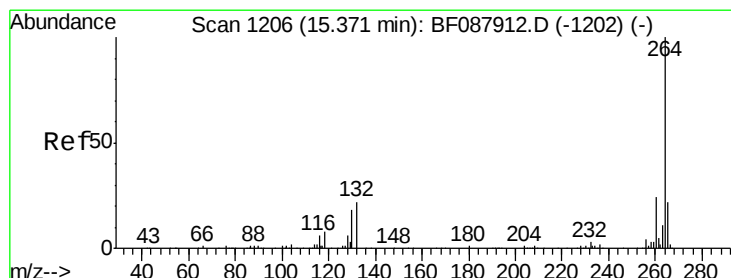
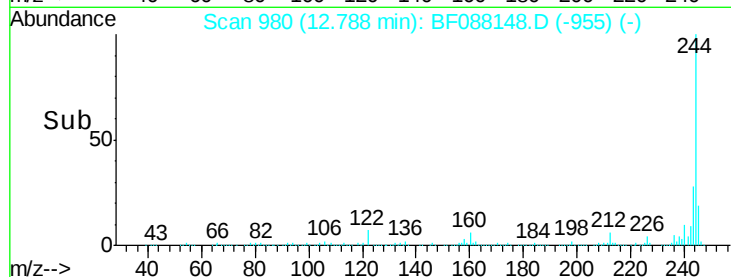
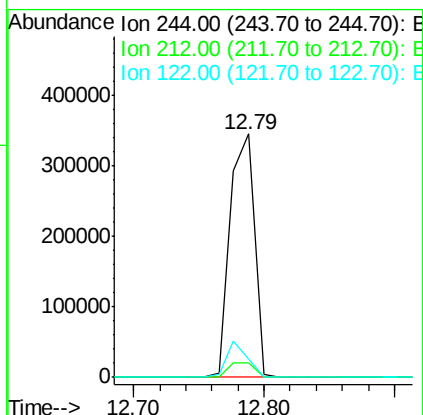
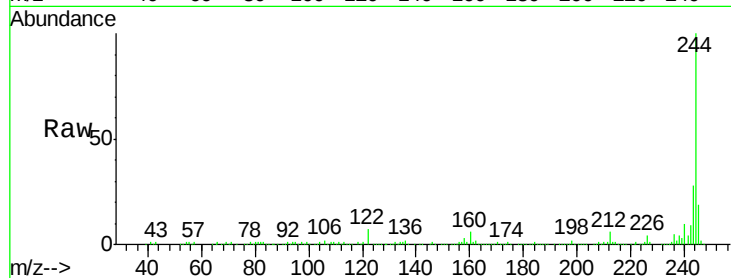




#78  
 Terphenyl-d14  
 Concen: 56.79 ng  
 RT: 12.79 min Scan# 980  
 Delta R.T. -0.01 min  
 Lab File: BF088148.D  
 Acq: 18 Jun 2016 21:59

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P8-B6(8-16)C

Tgt Ion:244 Resp: 446575  
 Ion Ratio Lower Upper  
 244 100  
 212 6.1 6.0 9.0  
 122 7.4 11.2 16.8#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.21 min Scan# 1192  
 Delta R.T. -0.01 min  
 Lab File: BF088148.D  
 Acq: 18 Jun 2016 21:59

Tgt Ion:264 Resp: 135847  
 Ion Ratio Lower Upper  
 264 100  
 260 23.8 19.2 28.8  
 265 21.7 16.9 25.3

