

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF033015\  
 Data File : BF078107.D  
 Acq On : 31 Mar 2015 9:21  
 Operator : TP/IZ  
 Sample : G1677-09DL 10X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DEL-3S-2(7.0-7.5)DL

Quant Time: Mar 31 11:14:30 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF031115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Mar 28 05:37:34 2015  
 Response via : Initial Calibration

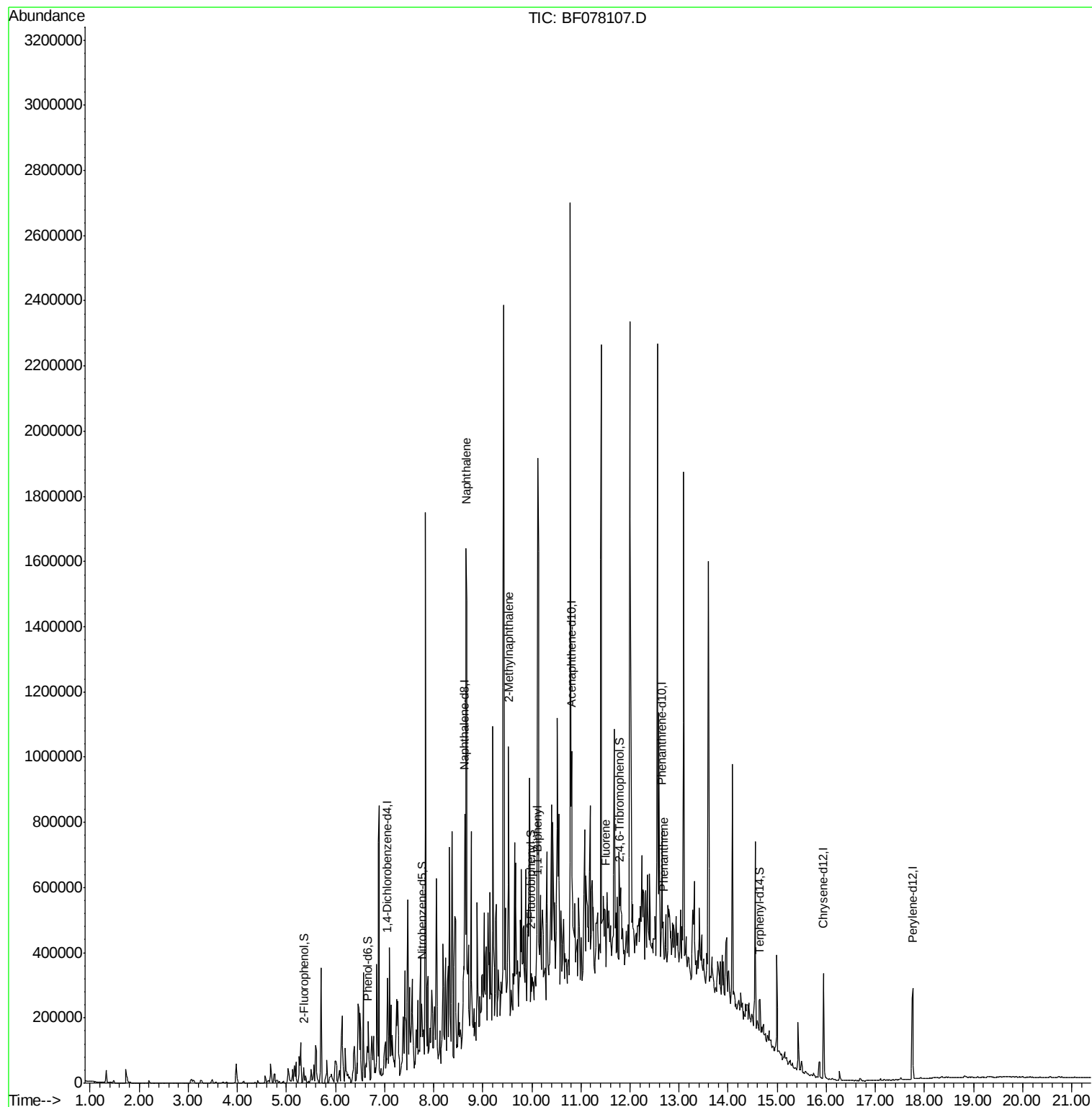
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.06  | 152  | 35855    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.64  | 136  | 144898   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 10.81 | 164  | 72764    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 12.65 | 188  | 144606   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12            | 15.94 | 240  | 164735   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12            | 17.76 | 264  | 159892   | 20.00 | ng    | 0.14     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.36  | 112  | 21137    | 10.29 | ng    | -0.01    |
| 7) Phenol-d6                | 6.65  | 99   | 30431    | 11.99 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.76  | 82   | 23365    | 10.57 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 11.79 | 330  | 6004     | 8.62  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.98  | 172  | 38114    | 7.70  | ng    | -0.01    |
| 78) Terphenyl-d14           | 14.65 | 244  | 44473    | 6.59  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 31) Naphthalene             | 8.66  | 128  | 101347   | 13.62 | ng    | # 91     |
| 37) 2-Methylnaphthalene     | 9.53  | 142  | 220166   | 44.04 | ng    | 100      |
| 45) 1,1'-Biphenyl           | 10.11 | 154  | 50518    | 8.69  | ng    | 97       |
| 57) Fluorene                | 11.49 | 166  | 31139    | 5.61  | ng    | # 84     |
| 70) Phenanthrene            | 12.68 | 178  | 69151    | 8.33  | ng    | # 95     |

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

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QLast Update : Sat Mar 28 05:37:34 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.06 min Scan# 540

Delta R.T. -0.01 min

Lab File: BF078107.D

Acq: 31 Mar 2015 9:21

Instrument :

BNA\_F

ClientSampleId :

DEL-3S-2(7.0-7.5)DL

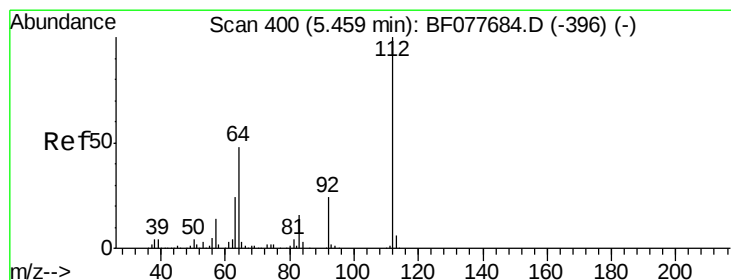
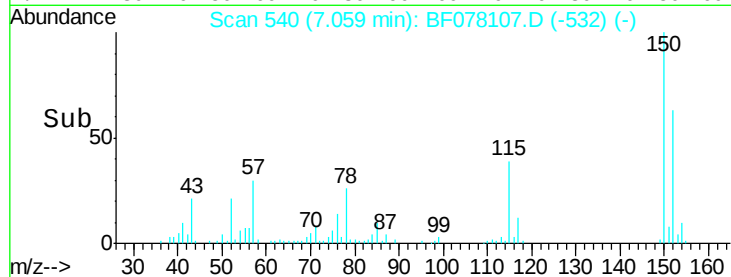
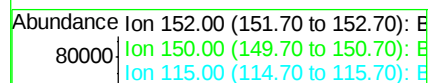
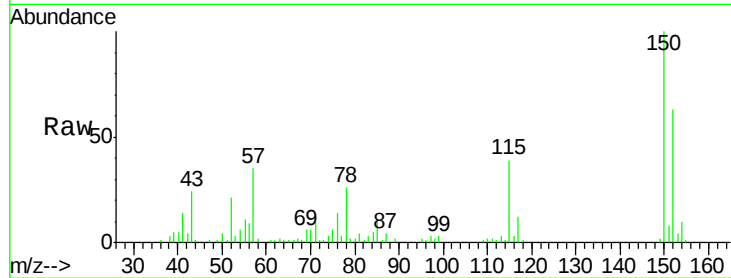
Tgt Ion:152 Resp: 35855

Ion Ratio Lower Upper

152 100

150 159.3 119.5 179.3

115 62.7 43.0 64.4



#5

2-Fluorophenol

Concen: 10.29 ng

RT: 5.36 min Scan# 391

Delta R.T. -0.01 min

Lab File: BF078107.D

Acq: 31 Mar 2015 9:21

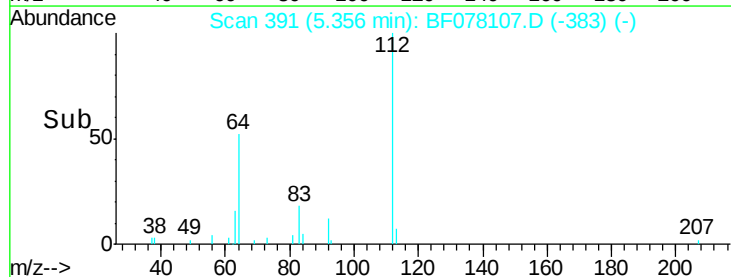
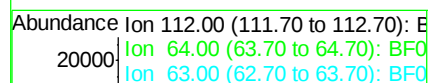
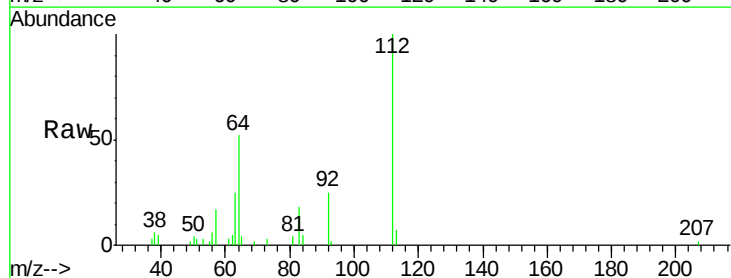
Tgt Ion:112 Resp: 21137

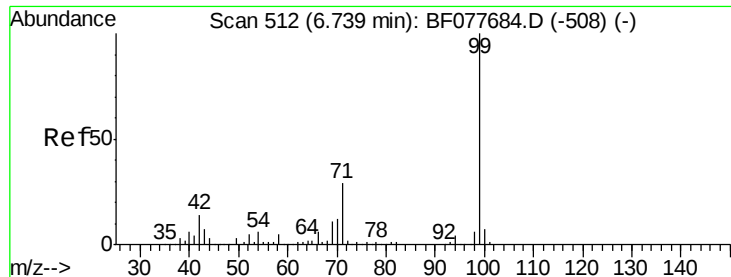
Ion Ratio Lower Upper

112 100

64 52.0 38.6 57.8

63 25.2 19.3 28.9





#7

Phenol-d6

Concen: 11.99 ng

RT: 6.65 min Scan# 504

Delta R.T. -0.02 min

Lab File: BF078107.D

Acq: 31 Mar 2015 9:21

Instrument :

BNA\_F

ClientSampleId :

DEL-3S-2(7.0-7.5)DL

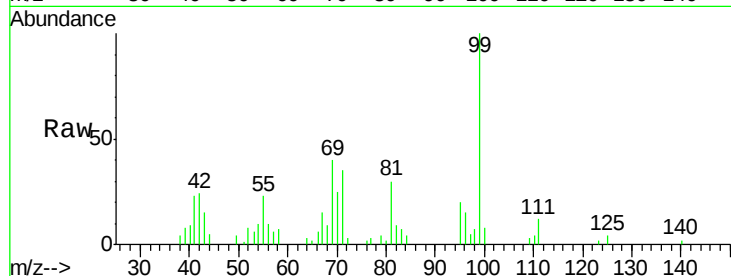
Tgt Ion: 99 Resp: 30431

Ion Ratio Lower Upper

99 100

42 23.8 11.0 16.4#

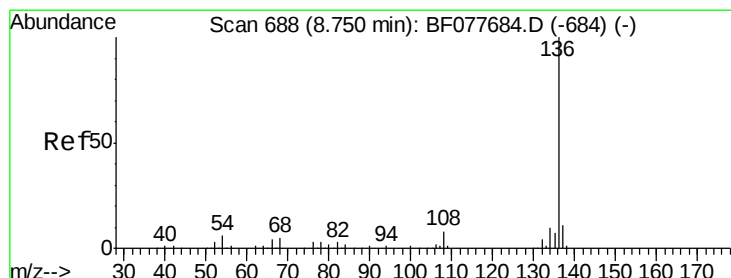
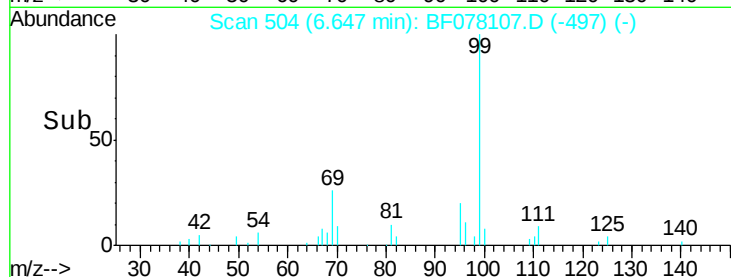
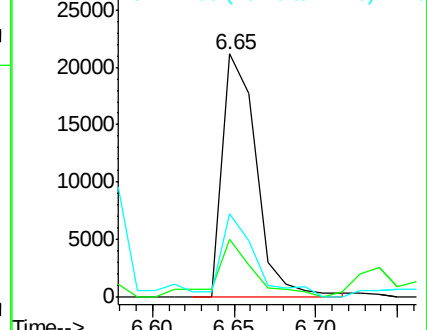
71 34.6 23.4 35.2



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.64 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF078107.D

Acq: 31 Mar 2015 9:21

Tgt Ion: 136 Resp: 144898

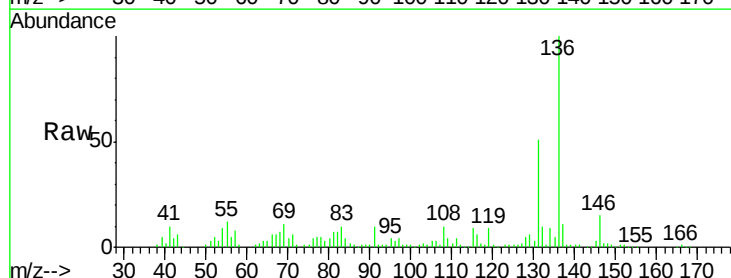
Ion Ratio Lower Upper

136 100

137 11.5 8.7 13.1

54 8.8 4.6 6.8#

68 7.4 3.7 5.5#

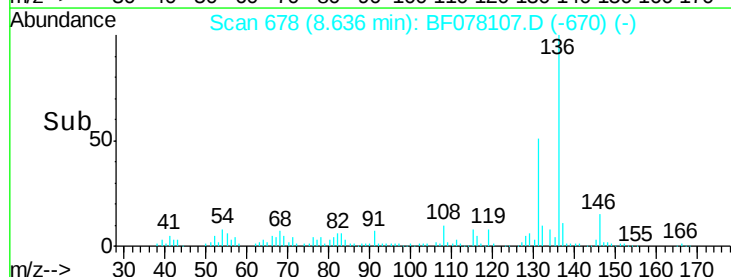
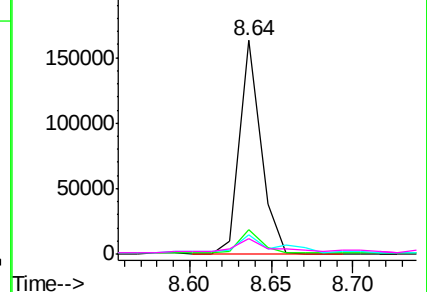


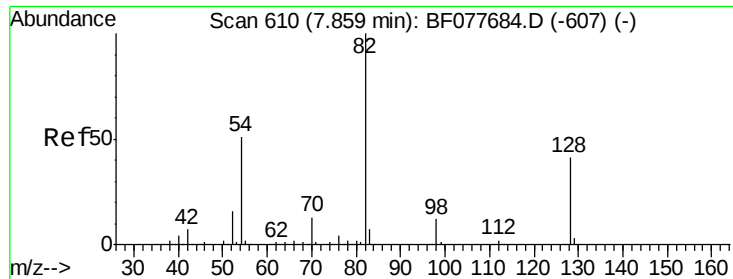
Abundance Ion 136.00 (135.70 to 136.70): E

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

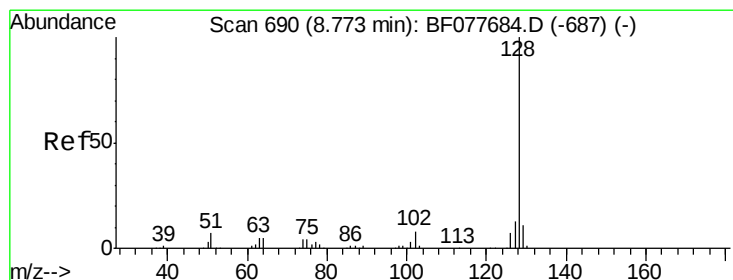
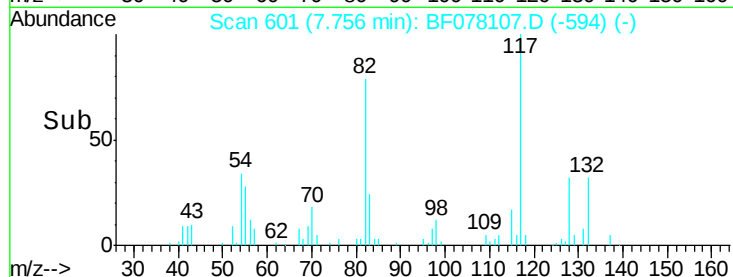
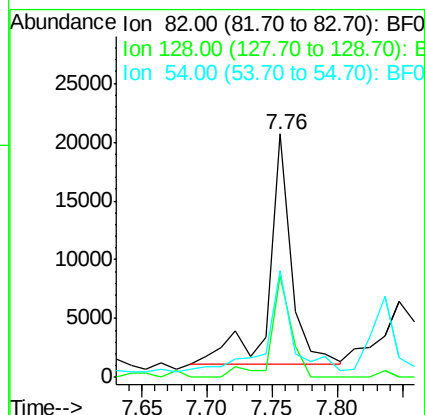
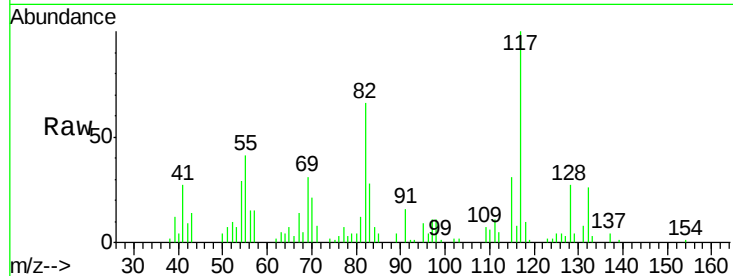




#23  
 Nitrobenzene-d5  
 Concen: 10.57 ng  
 RT: 7.76 min Scan# 601  
 Delta R.T. -0.02 min  
 Lab File: BF078107.D  
 Acq: 31 Mar 2015 9:21

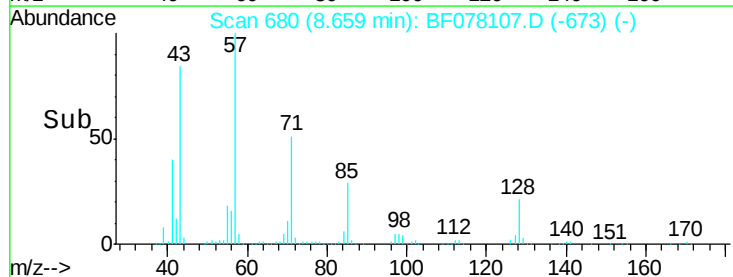
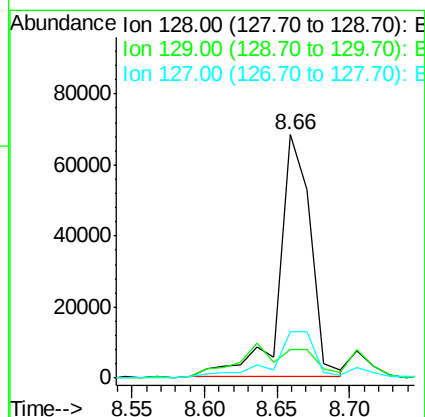
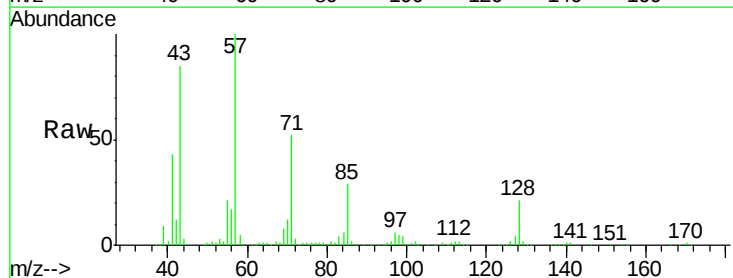
Instrument :  
 BNA\_F  
 ClientSampleId :  
 DEL-3S-2(7.0-7.5)DL

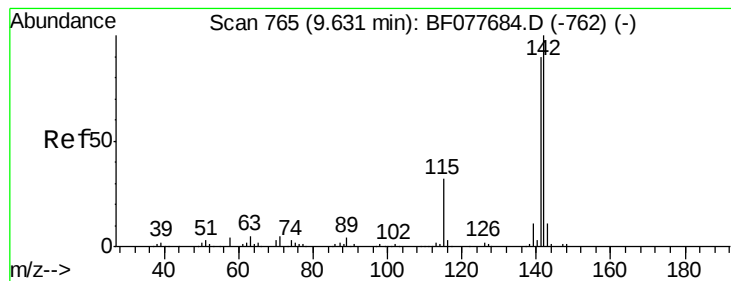
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.9  | 32.8  | 49.2  |
| 54      | 43.9  | 40.6  | 60.8  |



#31  
 Naphthalene  
 Concen: 13.62 ng  
 RT: 8.66 min Scan# 680  
 Delta R.T. -0.02 min  
 Lab File: BF078107.D  
 Acq: 31 Mar 2015 9:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.8  | 8.9   | 13.3  |
| 127     | 18.9  | 10.4  | 15.6# |

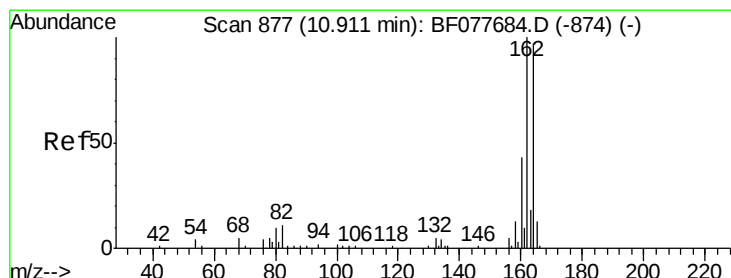
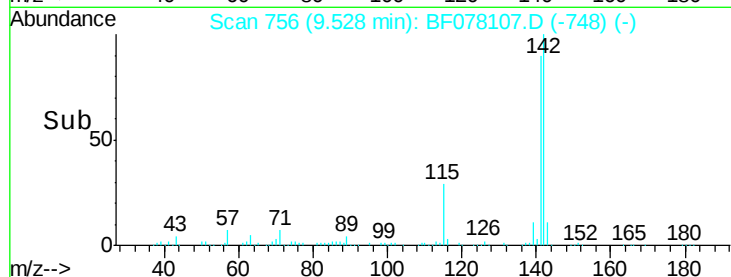
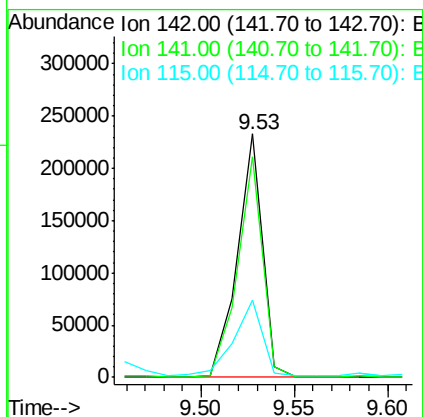
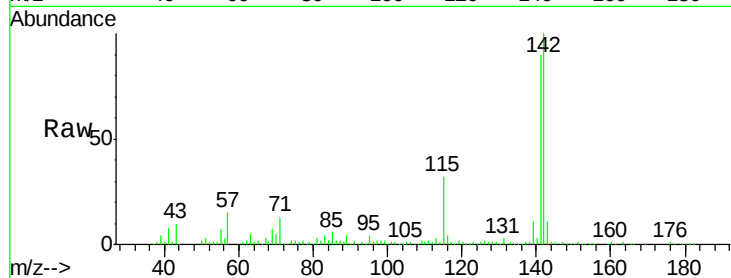




#37  
 2-Methylnaphthalene  
 Concen: 44.04 ng  
 RT: 9.53 min Scan# 756  
 Delta R.T. -0.01 min  
 Lab File: BF078107.D  
 Acq: 31 Mar 2015 9:21

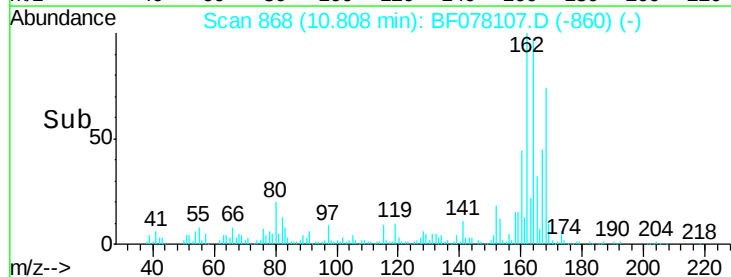
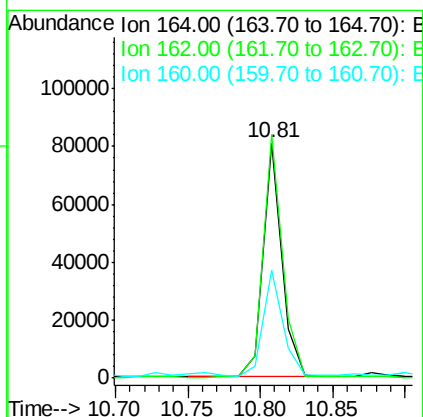
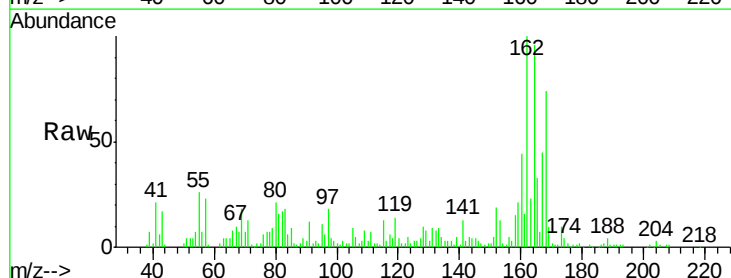
Instrument :  
 BNA\_F  
 ClientSampleId :  
 DEL-3S-2(7.0-7.5)DL

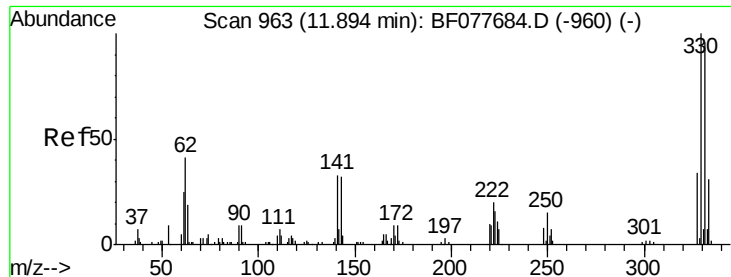
Tgt Ion:142 Resp: 220166  
 Ion Ratio Lower Upper  
 142 100  
 141 90.4 71.9 107.9  
 115 31.9 25.4 38.0



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.81 min Scan# 868  
 Delta R.T. -0.01 min  
 Lab File: BF078107.D  
 Acq: 31 Mar 2015 9:21

Tgt Ion:164 Resp: 72764  
 Ion Ratio Lower Upper  
 164 100  
 162 103.8 82.4 123.6  
 160 46.0 35.8 53.6

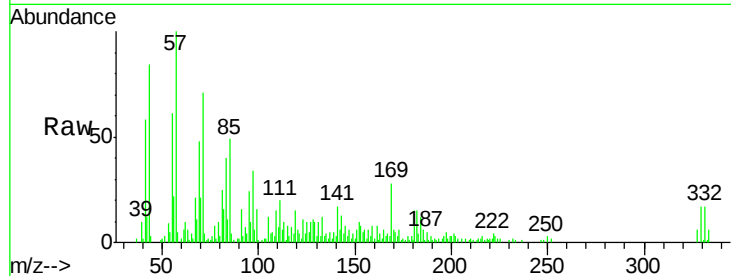




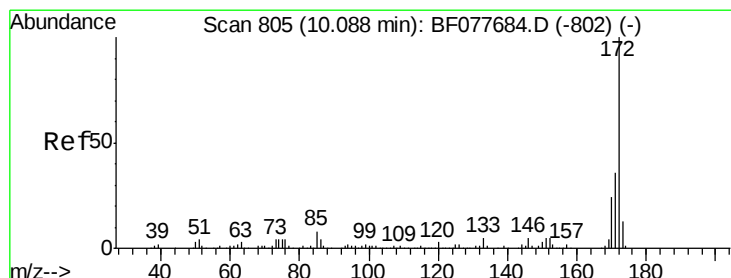
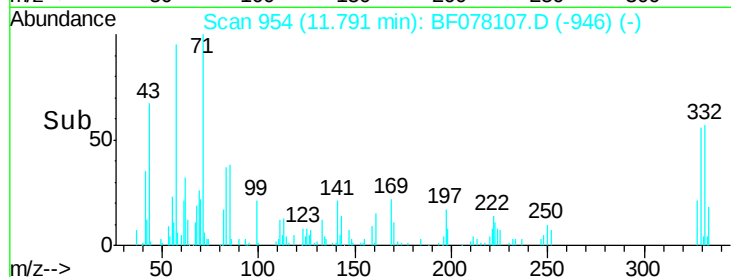
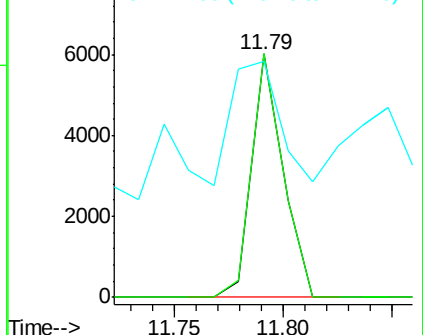
#41  
 2,4,6-Tribromophenol  
 Concen: 8.62 ng  
 RT: 11.79 min Scan# 954  
 Delta R.T. -0.01 min  
 Lab File: BF078107.D  
 Acq: 31 Mar 2015 9:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DEL-3S-2(7.0-7.5)DL

Tgt Ion:330 Resp: 6004  
 Ion Ratio Lower Upper  
 330 100  
 332 100.8 0.0 0.0#  
 141 127.2 0.0 0.0#

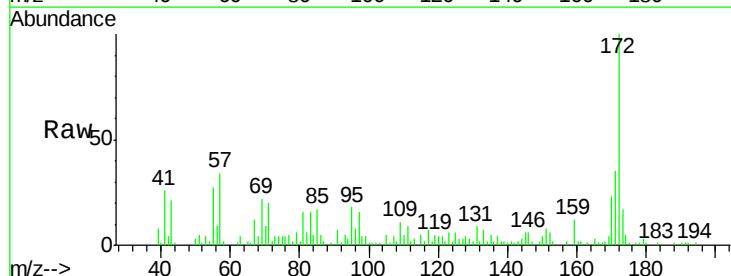


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

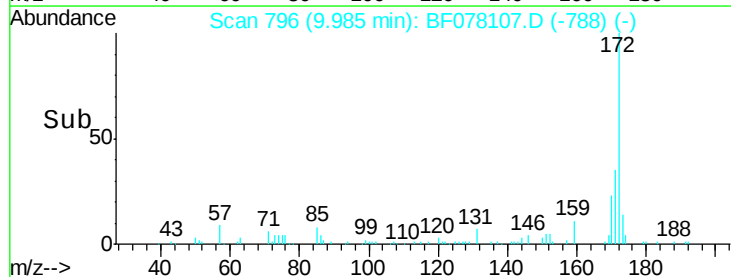
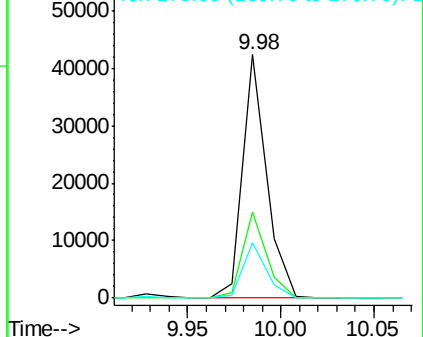


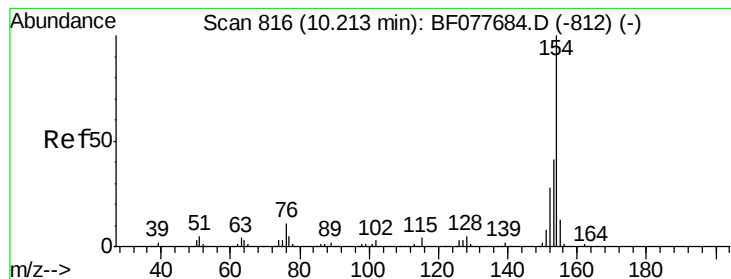
#44  
 2-Fluorobiphenyl  
 Concen: 7.70 ng  
 RT: 9.98 min Scan# 796  
 Delta R.T. -0.01 min  
 Lab File: BF078107.D  
 Acq: 31 Mar 2015 9:21

Tgt Ion:172 Resp: 38114  
 Ion Ratio Lower Upper  
 172 100  
 171 35.3 28.5 42.7  
 170 22.9 18.8 28.2



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: 8.69 ng

RT: 10.11 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF078107.D

Acq: 31 Mar 2015 9:21

Instrument :

BNA\_F

ClientSampleId :

DEL-3S-2(7.0-7.5)DL

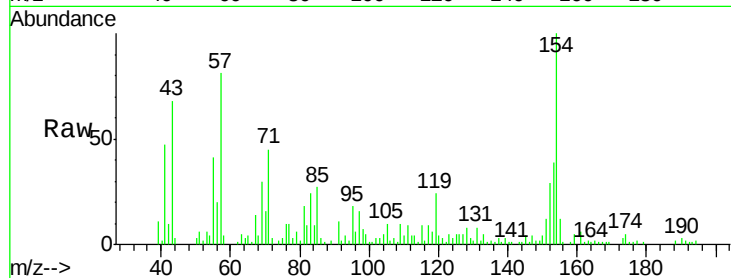
Tgt Ion:154 Resp: 50518

Ion Ratio Lower Upper

154 100

153 38.9 20.7 60.7

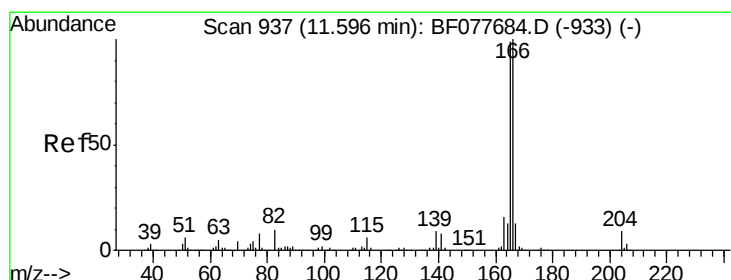
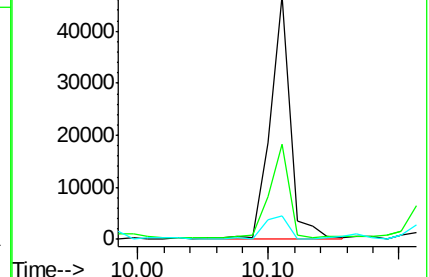
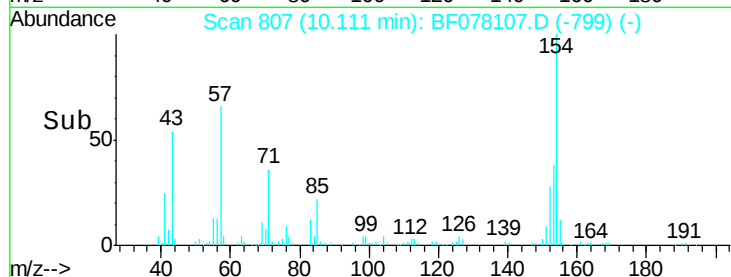
76 9.7 0.0 30.9



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



#57

Fluorene

Concen: 5.61 ng

RT: 11.49 min Scan# 928

Delta R.T. -0.00 min

Lab File: BF078107.D

Acq: 31 Mar 2015 9:21

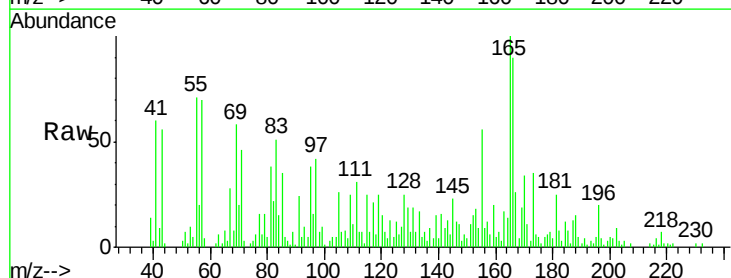
Tgt Ion:166 Resp: 31139

Ion Ratio Lower Upper

166 100

165 111.5 79.0 118.4

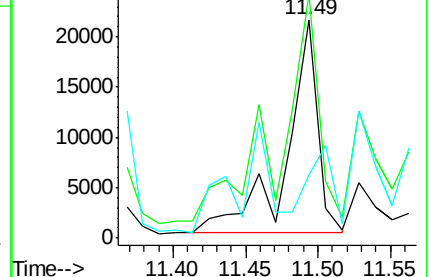
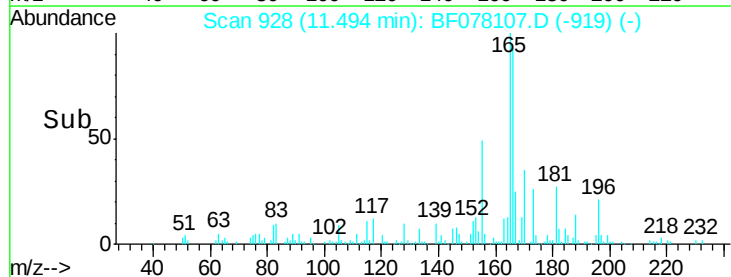
167 29.0 10.3 15.5#

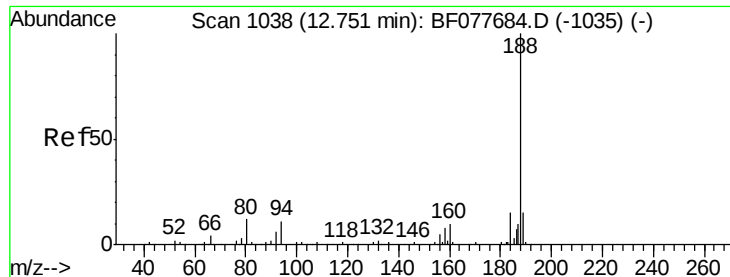


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

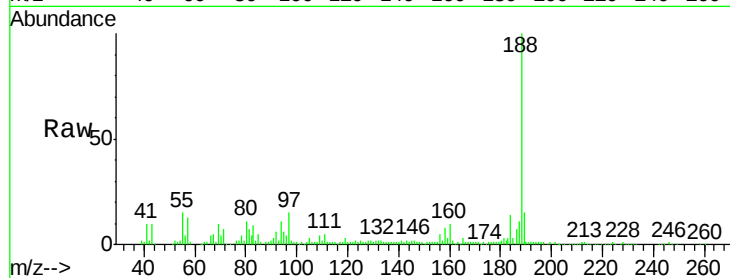




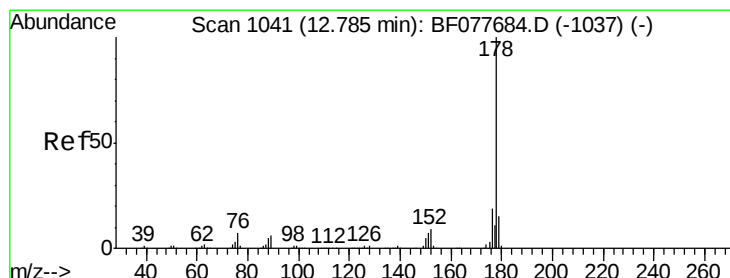
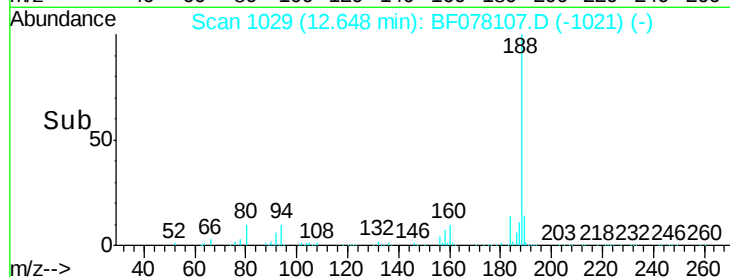
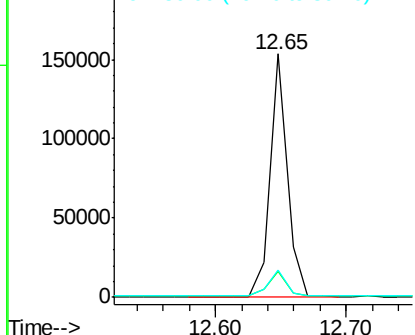
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.65 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: BF078107.D  
Acq: 31 Mar 2015 9:21

Instrument :  
BNA\_F  
ClientSampleId :  
DEL-3S-2(7.0-7.5)DL

Tgt Ion:188 Resp: 144606  
Ion Ratio Lower Upper  
188 100  
94 10.6 8.7 13.1  
80 11.0 9.3 13.9

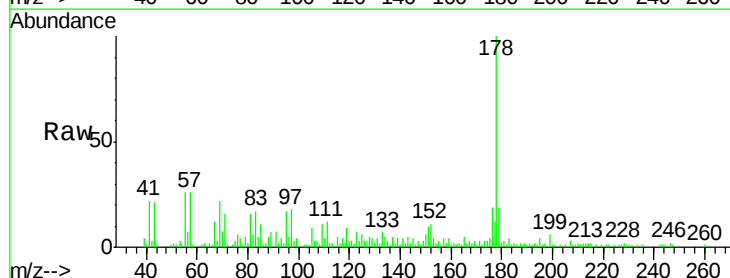


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

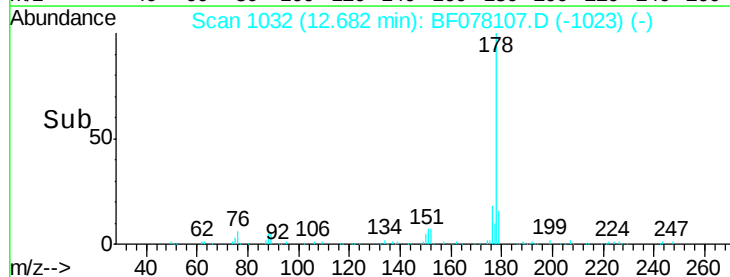
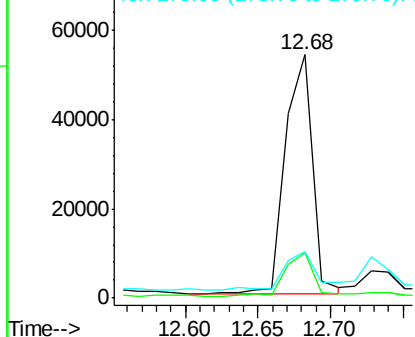


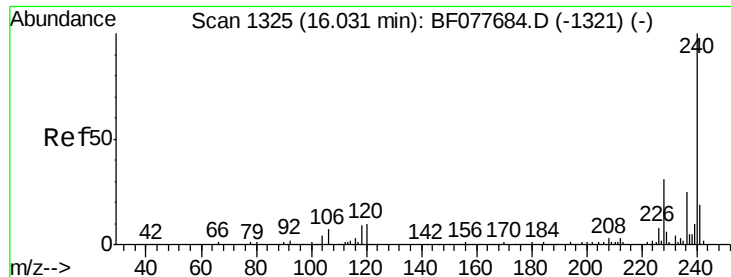
#70  
Phenanthrene  
Concen: 8.33 ng  
RT: 12.68 min Scan# 1032  
Delta R.T. -0.00 min  
Lab File: BF078107.D  
Acq: 31 Mar 2015 9:21

Tgt Ion:178 Resp: 69151  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.2 22.8  
179 19.1 12.1 18.1#



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.94 min Scan# 1317

Delta R.T. 0.01 min

Lab File: BF078107.D

Acq: 31 Mar 2015 9:21

Instrument :

BNA\_F

ClientSampleId :

DEL-3S-2(7.0-7.5)DL

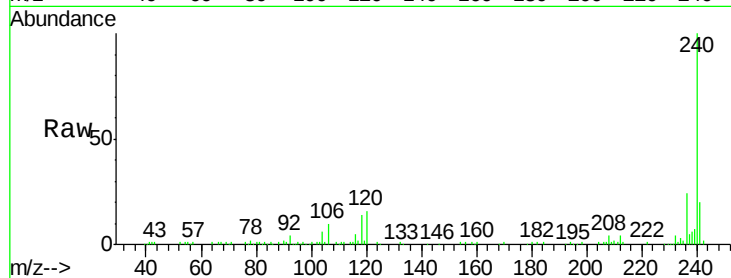
Tgt Ion:240 Resp: 164735

Ion Ratio Lower Upper

240 100

120 16.2 8.2 12.2#

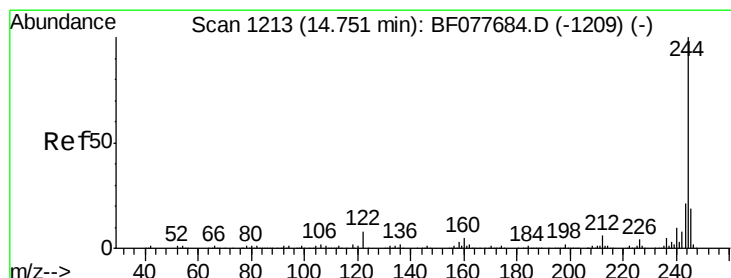
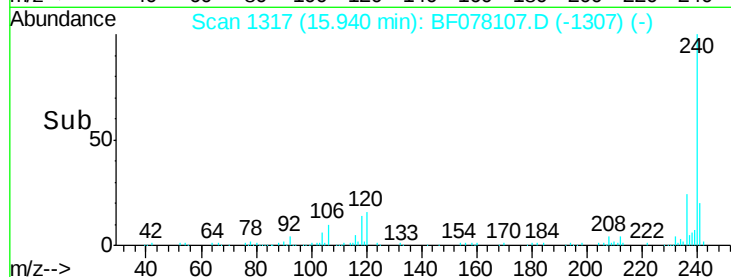
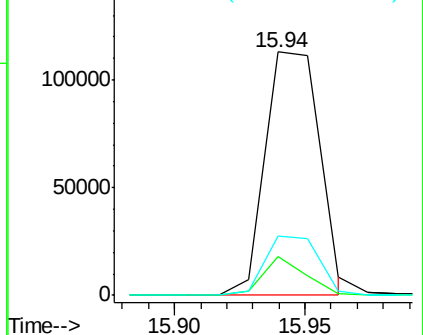
236 24.3 20.0 30.0



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: 6.59 ng

RT: 14.65 min Scan# 1204

Delta R.T. -0.00 min

Lab File: BF078107.D

Acq: 31 Mar 2015 9:21

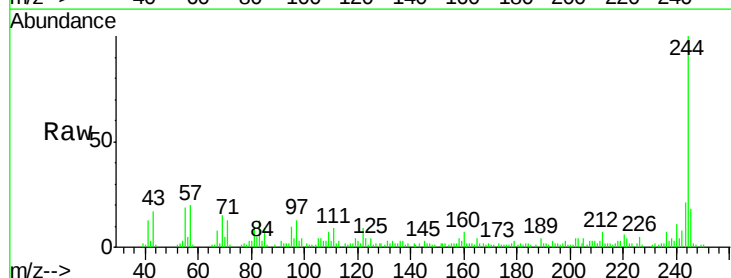
Tgt Ion:244 Resp: 44473

Ion Ratio Lower Upper

244 100

212 6.9 4.9 7.3

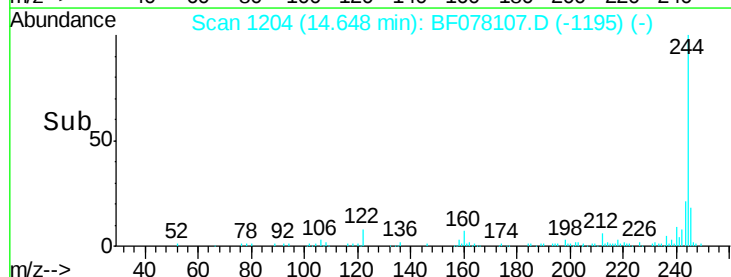
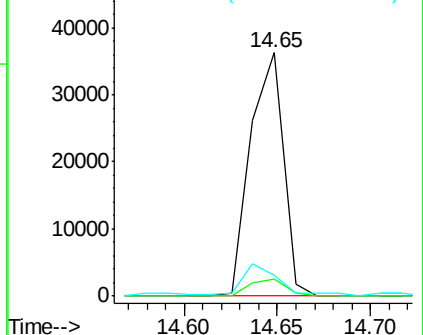
122 8.8 6.2 9.4

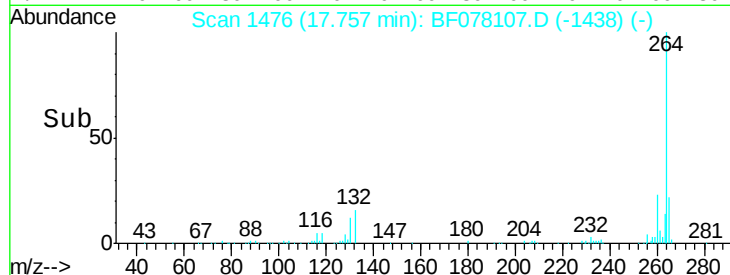
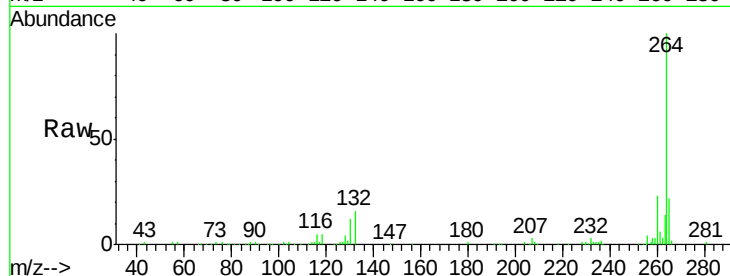
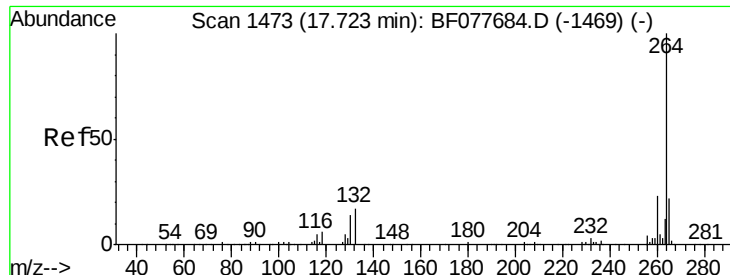


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 17.76 min Scan# 1476

Delta R.T. 0.14 min

Lab File: BF078107.D

Acq: 31 Mar 2015 9:21

Instrument :

BNA\_F

ClientSampleId :

DEL-3S-2(7.0-7.5)DL

Tgt Ion: 264 Resp: 159892

Ion Ratio Lower Upper

264 100

260 22.9 18.6 27.8

265 21.6 17.3 25.9

Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

