

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
 Data File : BF097150.D  
 Acq On : 28 Jul 2017 13:15  
 Operator : SJ/JU  
 Sample : I4397-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T-1B-14.5-15.0-072117

Quant Time: Jul 28 14:09:51 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

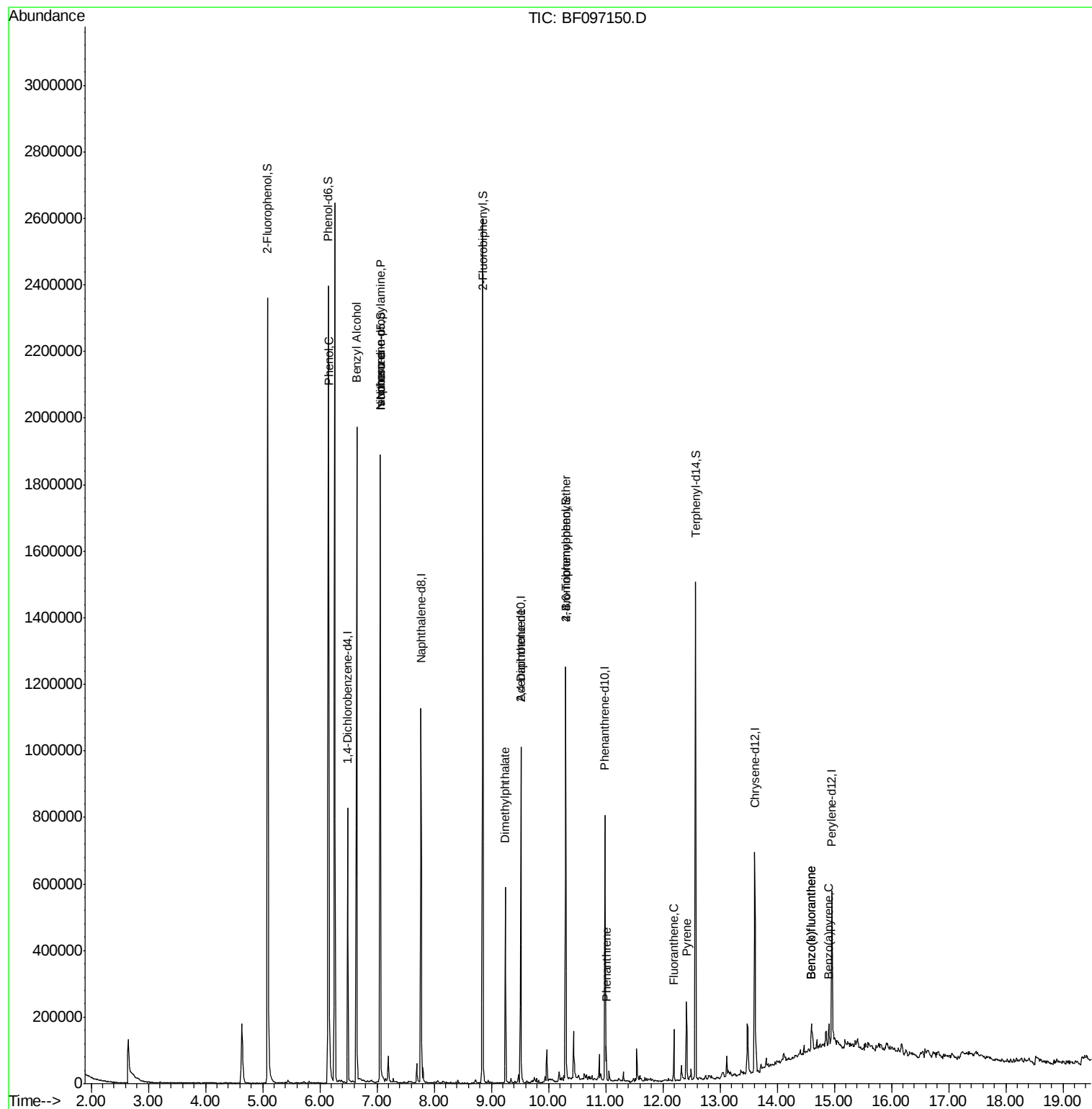
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.49  | 152  | 114271   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.77  | 136  | 490525   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.52  | 164  | 193043   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 10.99 | 188  | 268790   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.61 | 240  | 205290   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 14.96 | 264  | 192784   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.09  | 112  | 771214   | 101.74 | ng    | -0.01    |
| 7) Phenol-d6                   | 6.15  | 99   | 899722   | 103.97 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.06  | 82   | 580529   | 69.43  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.30 | 330  | 147324   | 96.59  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 8.85  | 172  | 816290   | 71.76  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.57 | 244  | 475317   | 47.21  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.16  | 94   | 59643    | 5.811  | ng    | 96       |
| 15) Benzyl Alcohol             | 6.64  | 79   | 11052    | 2.017  | ng    | # 47     |
| 19) n-Nitroso-di-n-propylamine | 7.06  | 70   | 78352    | 13.755 | ng    | # 89     |
| 25) Isophorone                 | 7.06  | 82   | 574990   | 35.114 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.25  | 163  | 219576   | 14.979 | ng    | 98       |
| 56) 2,4-Dinitrotoluene         | 9.52  | 165  | 24290    | 6.796  | ng    | # 33     |
| 66) 4-Bromophenyl-phenylether  | 10.30 | 248  | 9540     | 3.556  | ng    | # 1      |
| 70) Phenanthrene               | 11.01 | 178  | 32811    | 2.278  | ng    | 98       |
| 74) Fluoranthene               | 12.19 | 202  | 56537    | 4.007  | ng    | 97       |
| 77) Pyrene                     | 12.42 | 202  | 48906    | 2.910  | ng    | 98       |
| 87) Benzo(b)fluoranthene       | 14.60 | 252  | 42984    | 3.709  | ng    | # 90     |
| 88) Benzo(k)fluoranthene       | 14.60 | 252  | 42984    | 3.892  | ng    | 95       |
| 89) Benzo(a)pyrene             | 14.90 | 252  | 22512    | 2.123  | ng    | # 86     |

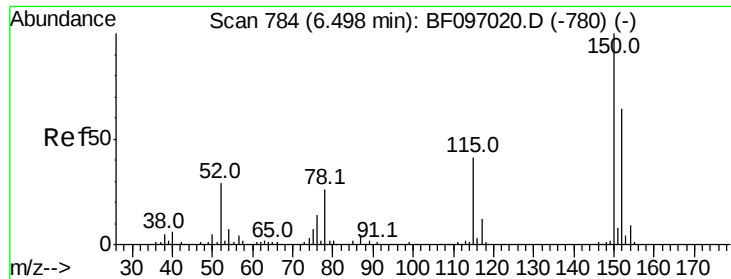
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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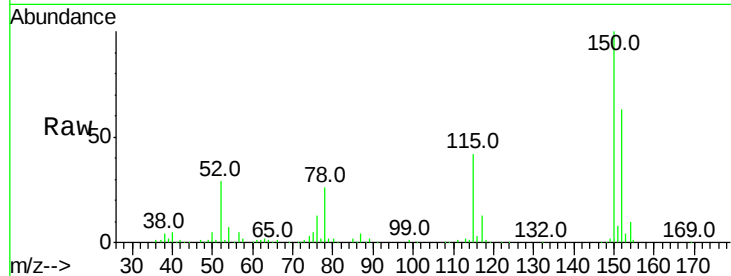


#1

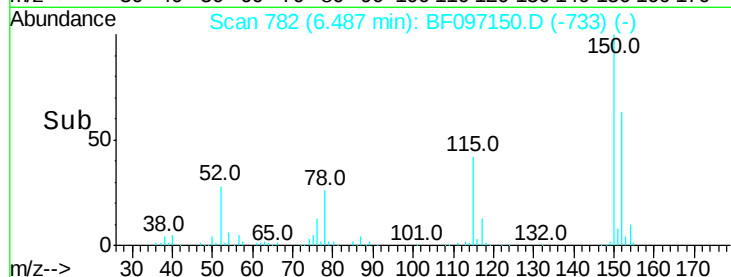
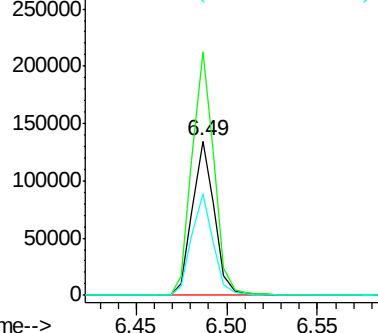
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.49 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BF097150.D  
Acq: 28 Jul 2017 13:15

Instrument :  
BNA\_F  
ClientSampleId :  
T-1B-14.5-15.0-072117

Tot Ion:152 Resp: 114271  
Ion Ratio Lower Upper  
152 100  
150 157.9 126.2 189.2  
115 66.0 52.2 78.2



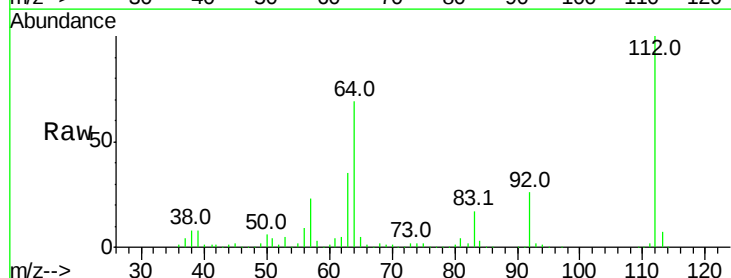
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



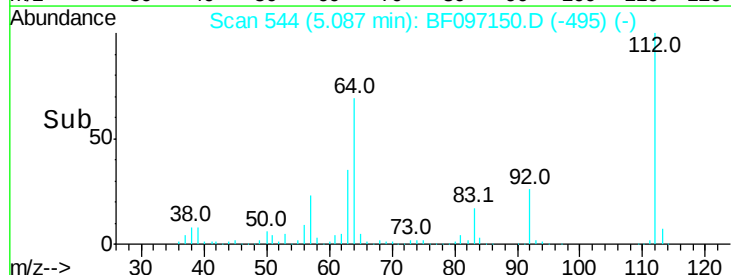
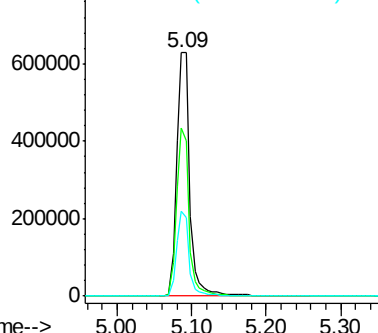
#5

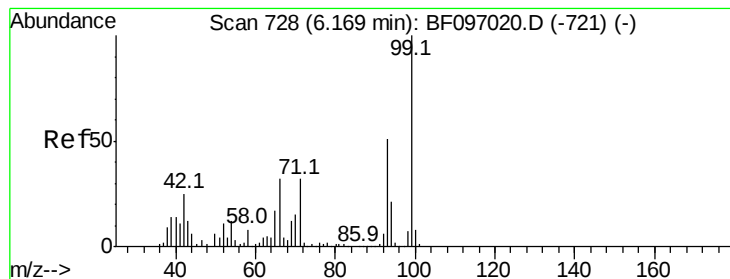
2-Fluorophenol  
Concen: 101.740 ng  
RT: 5.09 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: BF097150.D  
Acq: 28 Jul 2017 13:15

Tgt Ion:112 Resp: 771214  
Ion Ratio Lower Upper  
112 100  
64 68.8 46.0 69.0  
63 34.8 23.4 35.0



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: 103.969 ng

RT: 6.15 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

Instrument :

BNA\_F

ClientSampleId :

T-1B-14.5-15.0-072117

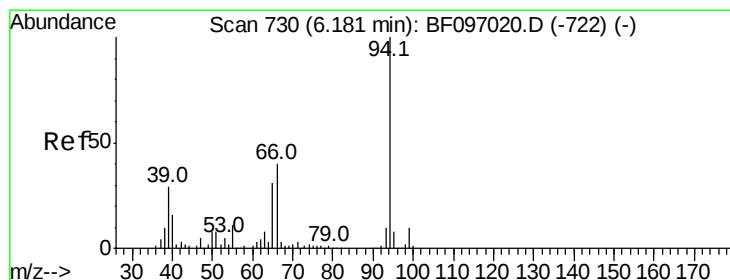
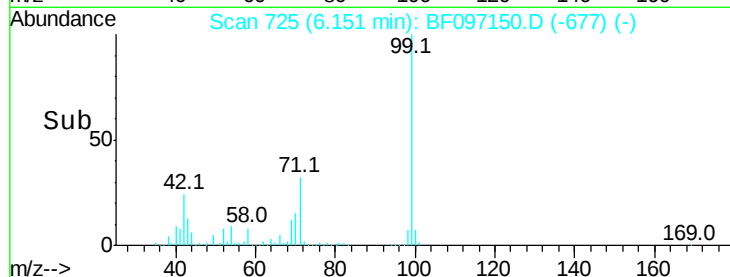
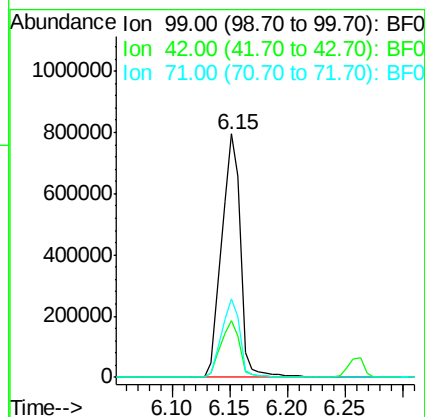
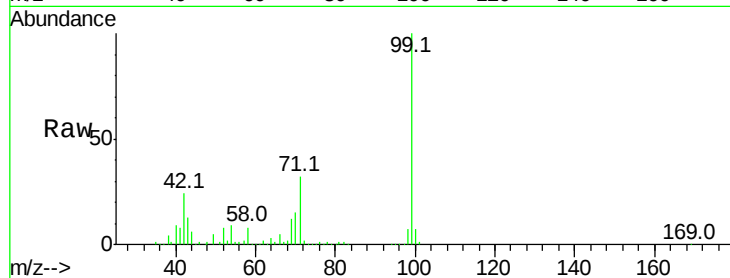
Tot Ion: 99 Resp: 899722

Ion Ratio Lower Upper

99 100

42 23.5 13.5 20.3#

71 32.5 24.5 36.7



#10

Phenol

Concen: 5.811 ng

RT: 6.16 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

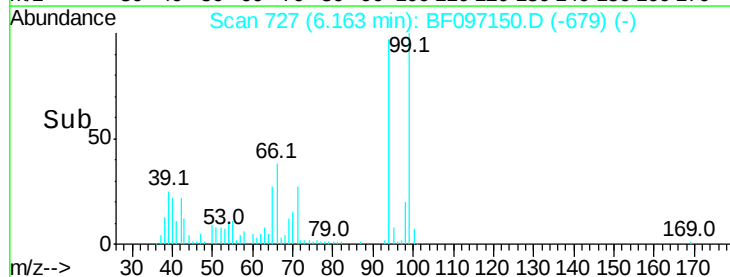
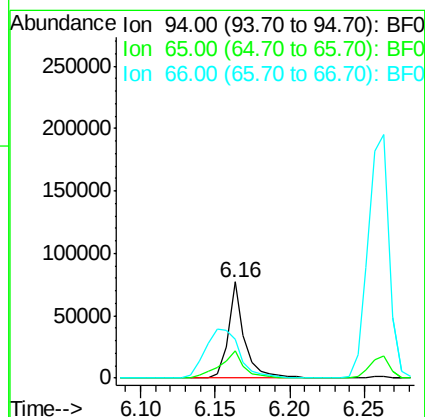
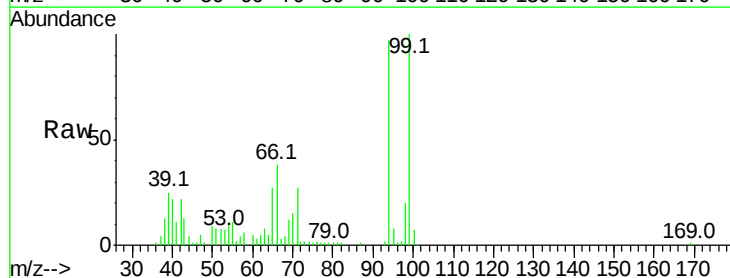
Tgt Ion: 94 Resp: 59643

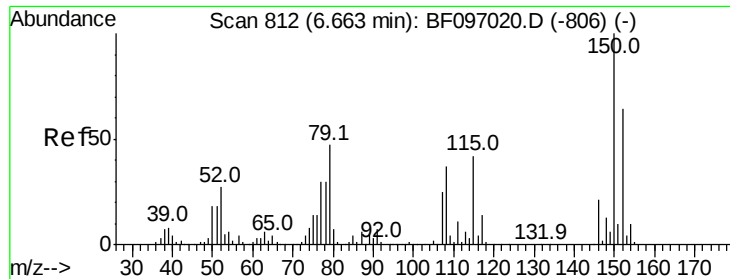
Ion Ratio Lower Upper

94 100

65 28.3 9.9 49.9

66 39.7 23.1 63.1





#15

Benzyl Alcohol

Concen: 2.017 ng

RT: 6.64 min Scan# 808

Delta R.T. -0.02 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

Instrument :

BNA\_F

ClientSampleId :

T-1B-14.5-15.0-072117

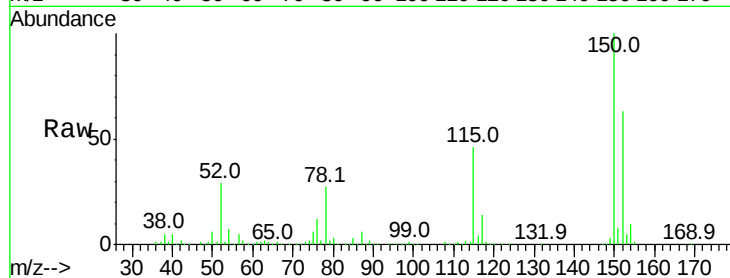
Tot Ion: 79 Resp: 11052

Ion Ratio Lower Upper

79 100

108 25.1 63.4 95.0#

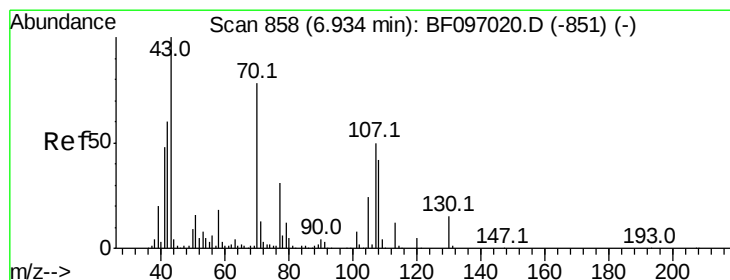
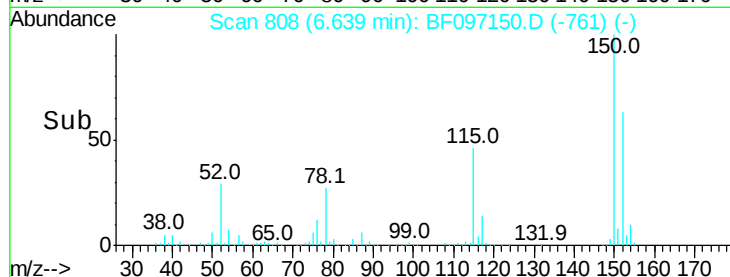
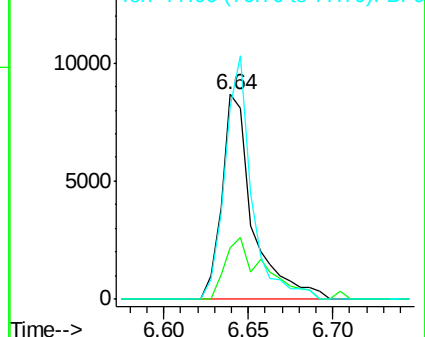
77 93.8 49.2 73.8#



Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 13.755 ng

RT: 7.06 min Scan# 879

Delta R.T. 0.12 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

Tgt Ion: 70 Resp: 78352

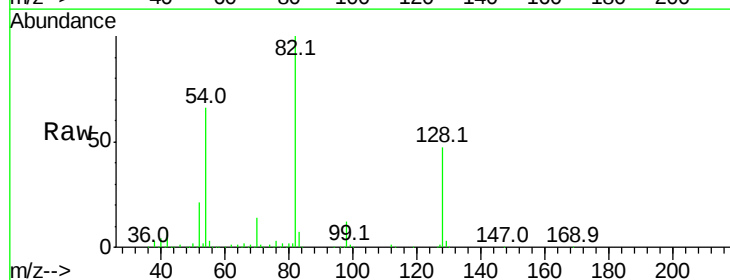
Ion Ratio Lower Upper

70 100

42 59.0 47.2 70.8

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

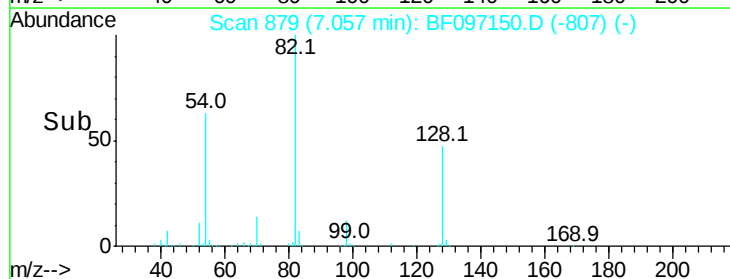
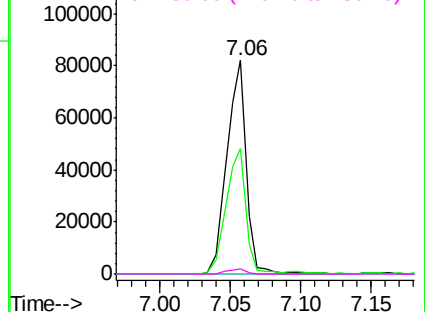


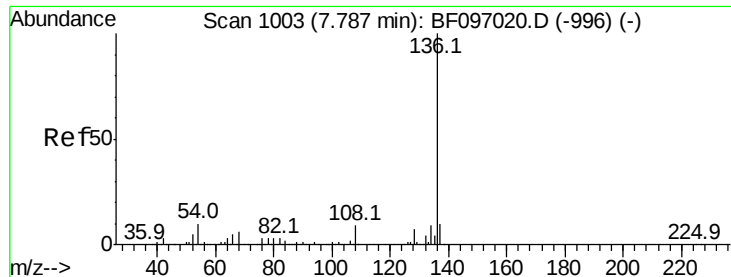
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

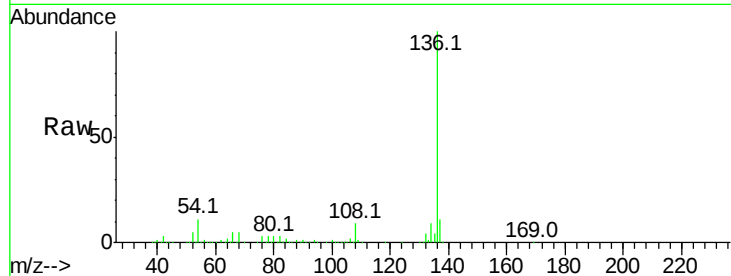




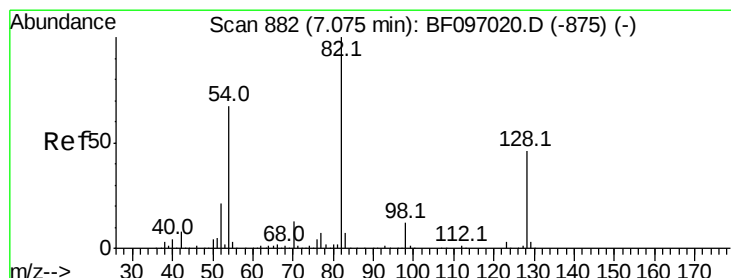
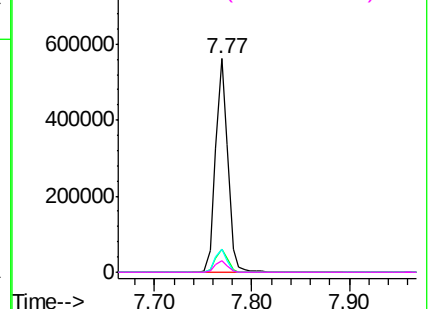
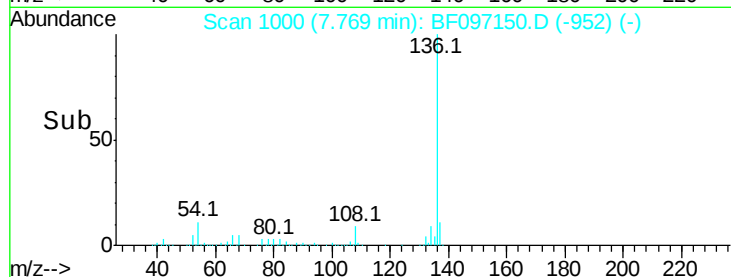
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.77 min Scan# 1000  
Delta R.T. -0.02 min  
Lab File: BF097150.D  
Acq: 28 Jul 2017 13:15

Instrument :  
BNA\_F  
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T-1B-14.5-15.0-072117

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 490525 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 8.5   | 12.7   |
| 54       | 10.6  | 4.9   | 7.3#   |
| 68       | 5.4   | 4.1   | 6.1    |

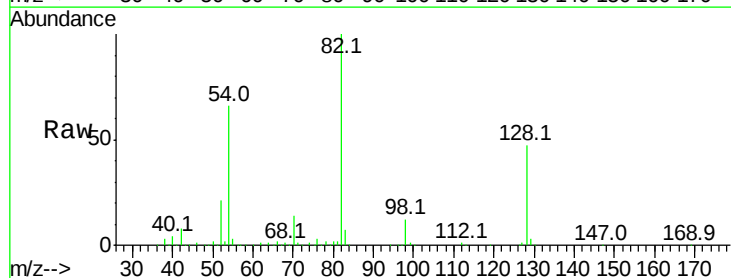


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

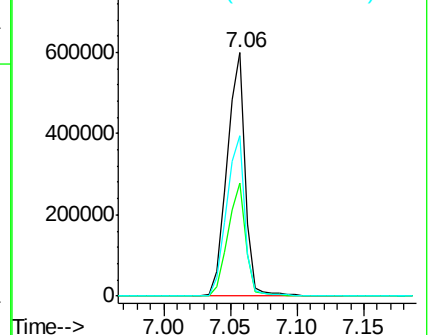
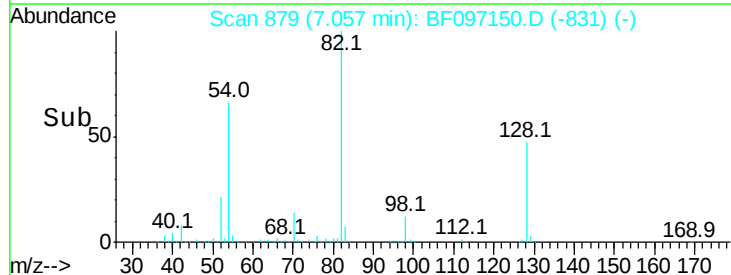


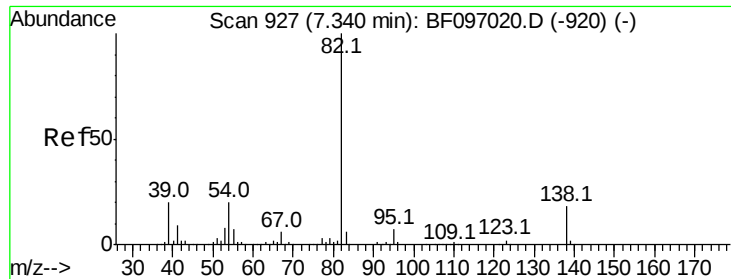
#23  
Nitrobenzene-d5  
Concen: 69.428 ng  
RT: 7.06 min Scan# 879  
Delta R.T. -0.02 min  
Lab File: BF097150.D  
Acq: 28 Jul 2017 13:15

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 580529 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.5  | 34.0  | 51.0   |
| 54       | 65.7  | 42.2  | 63.2#  |



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: 35.114 ng

RT: 7.06 min Scan# 879

Delta R.T. -0.28 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

Instrument :

BNA\_F

ClientSampleId :

T-1B-14.5-15.0-072117

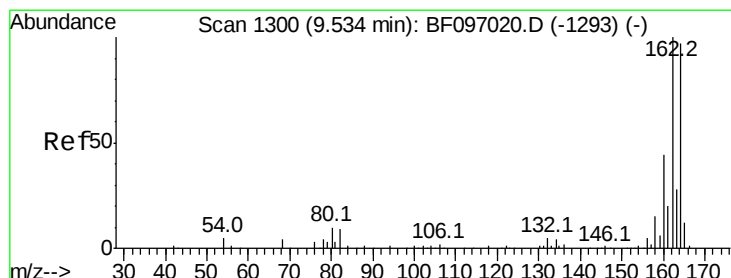
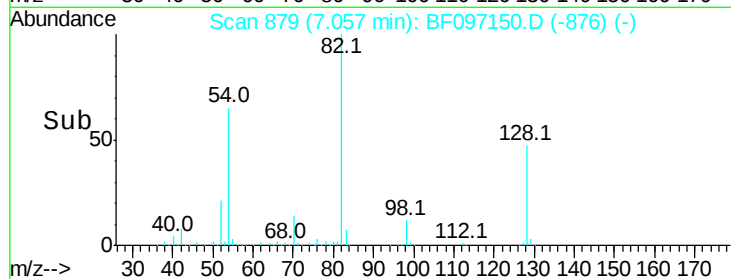
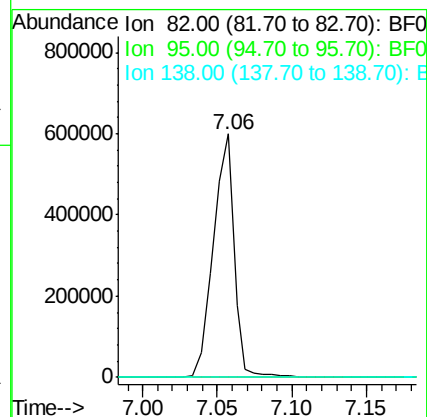
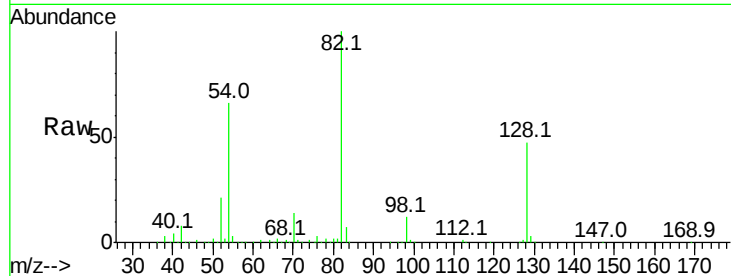
Tot Ion: 82 Resp: 574990

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

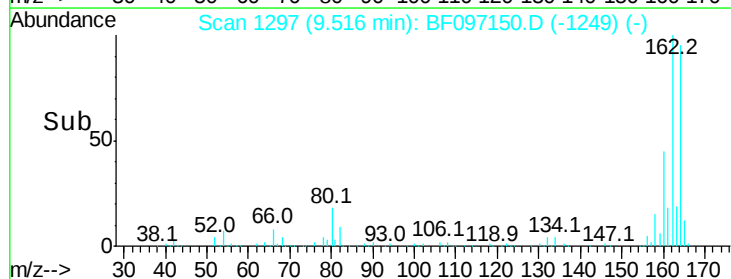
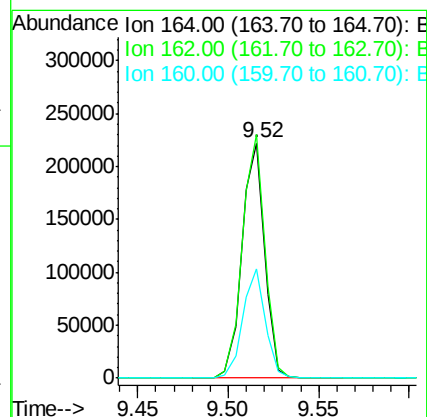
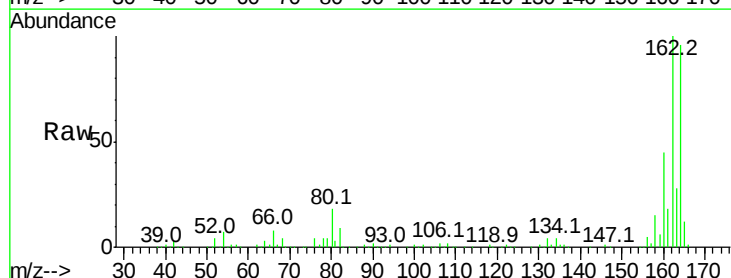
Tgt Ion: 164 Resp: 193043

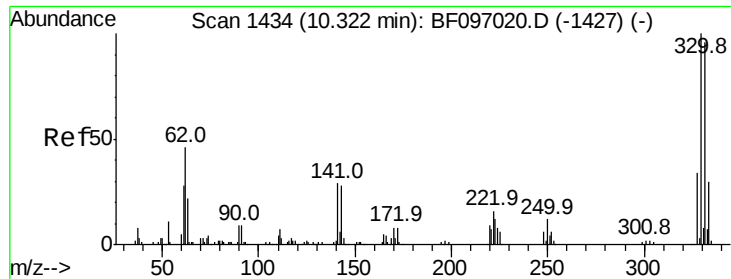
Ion Ratio Lower Upper

164 100

162 103.7 82.6 123.8

160 46.3 36.2 54.2

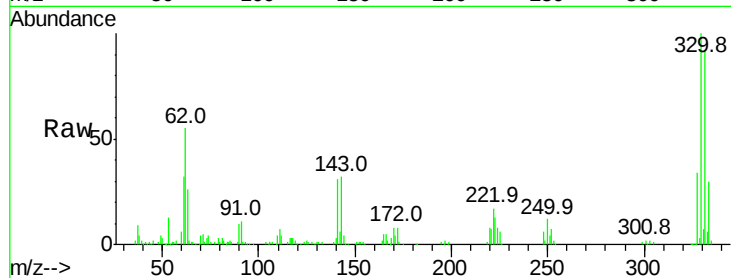




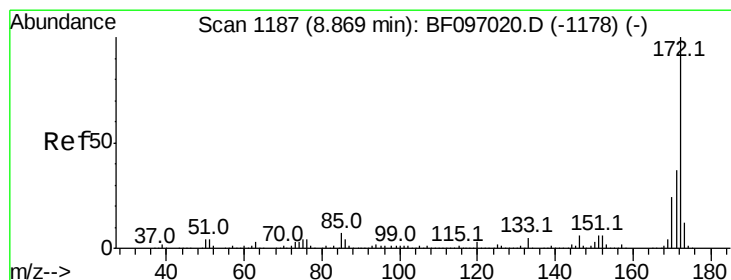
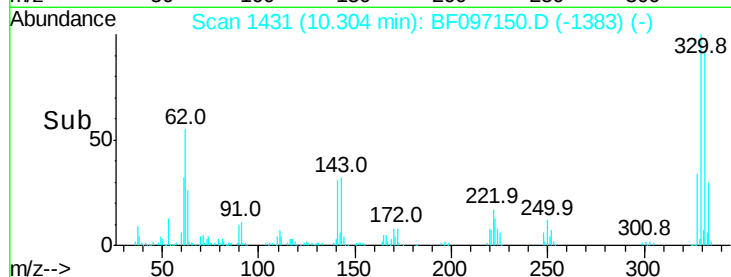
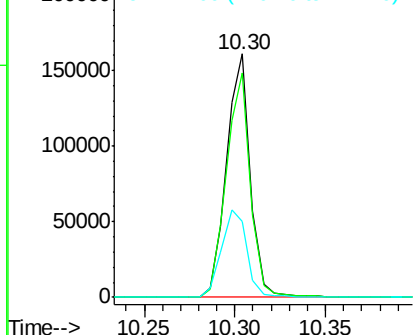
#41  
 2,4,6-Tribromophenol  
 Concen: 96.592 ng  
 RT: 10.30 min Scan# 1431  
 Delta R.T. -0.02 min  
 Lab File: BF097150.D  
 Acq: 28 Jul 2017 13:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T-1B-14.5-15.0-072117

Tot Ion:330 Resp: 147324  
 Ion Ratio Lower Upper  
 330 100  
 332 93.4 76.6 115.0  
 141 38.7 31.4 47.2

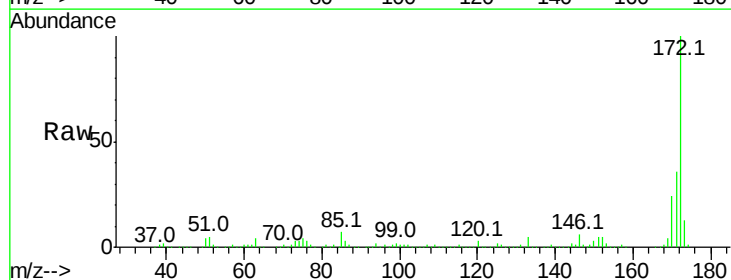


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

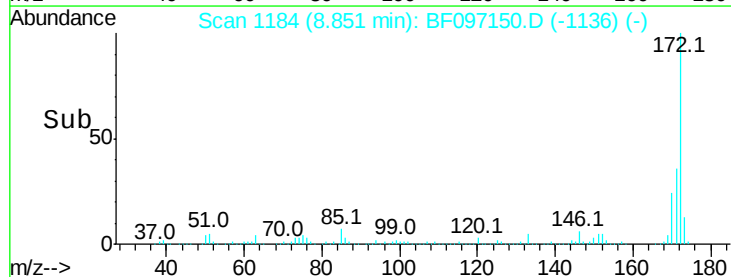
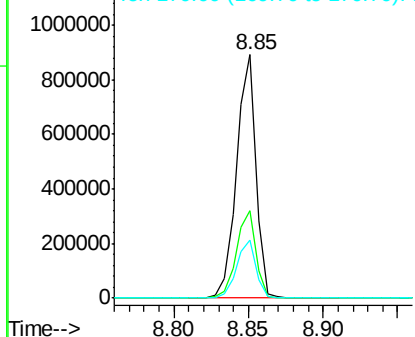


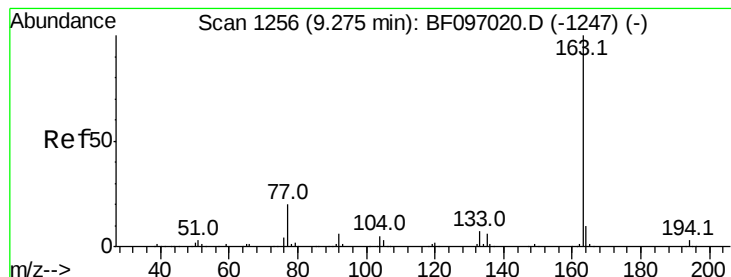
#44  
 2-Fluorobiphenyl  
 Concen: 71.762 ng  
 RT: 8.85 min Scan# 1184  
 Delta R.T. -0.02 min  
 Lab File: BF097150.D  
 Acq: 28 Jul 2017 13:15

Tgt Ion:172 Resp: 816290  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.6 44.4  
 170 24.0 19.8 29.8



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





#49

Dimethylphthalate

Concen: 14.979 ng

RT: 9.25 min Scan# 1251

Delta R.T. -0.03 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

Instrument :

BNA\_F

ClientSampleId :

T-1B-14.5-15.0-072117

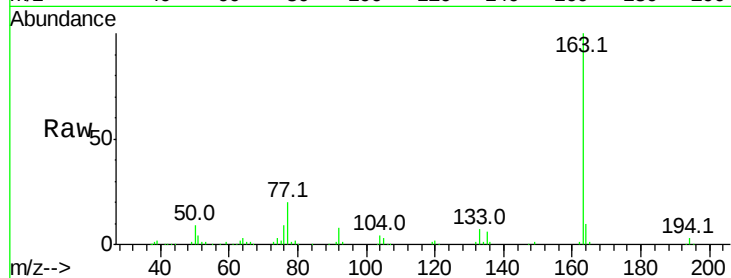
Tot Ion:163 Resp: 219576

Ion Ratio Lower Upper

163 100

194 2.9 2.6 4.0

164 9.9 8.4 12.6

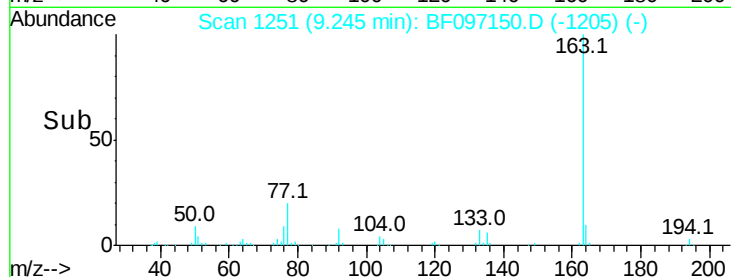


Abundance Ion 163.00 (162.70 to 163.70): E

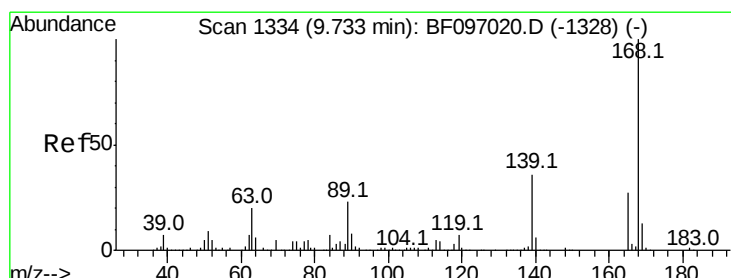
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

Time-->



Time-->



#56

2,4-Dinitrotoluene

Concen: 6.796 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.22 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

Tgt Ion:165 Resp: 24290

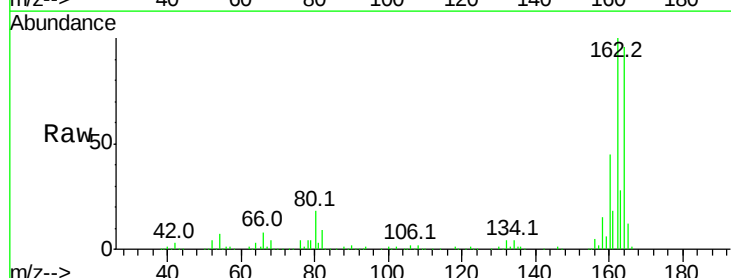
Ion Ratio Lower Upper

165 100

63 1.5 25.4 38.0#

89 1.6 46.4 69.6#

182 0.0 1.8 2.6#



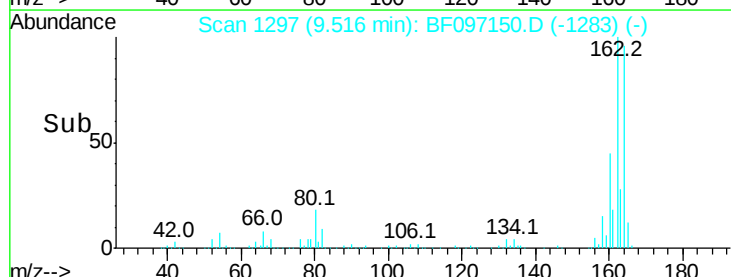
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

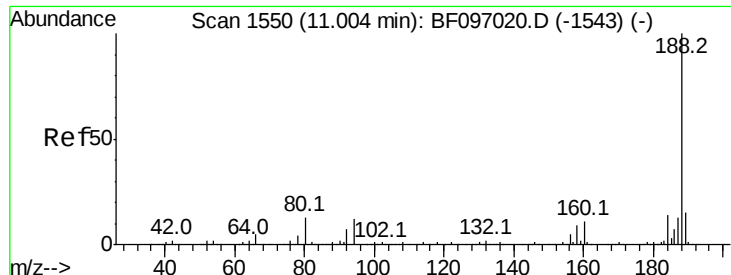
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

Time-->



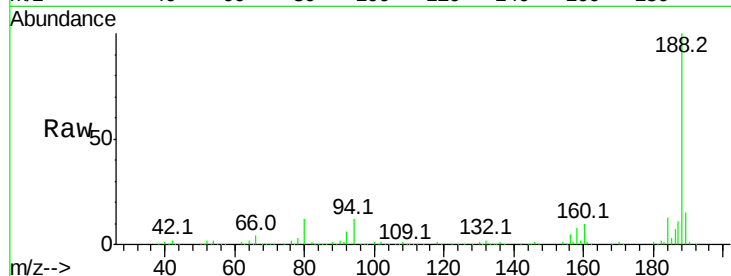
Time-->



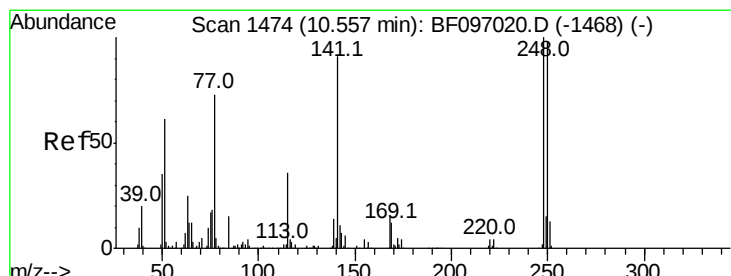
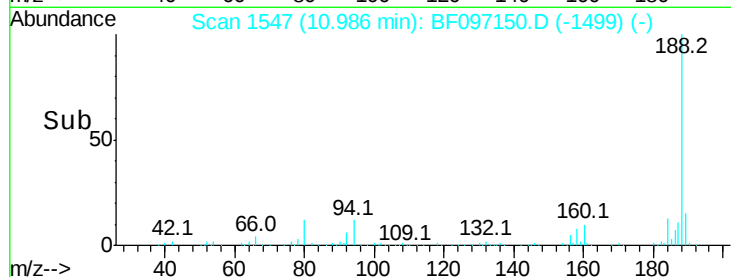
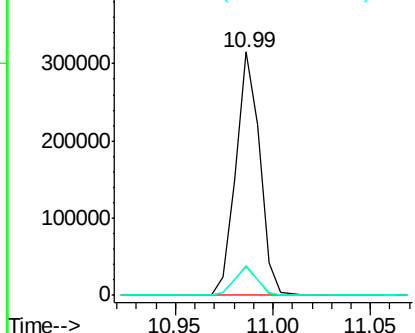
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 10.99 min Scan# 1547  
Delta R.T. -0.02 min  
Lab File: BF097150.D  
Acq: 28 Jul 2017 13:15

Instrument :  
BNA\_F  
ClientSampleId :  
T-1B-14.5-15.0-072117

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.5  | 9.4   | 14.2  |
| 80      | 12.2  | 10.2  | 15.2  |

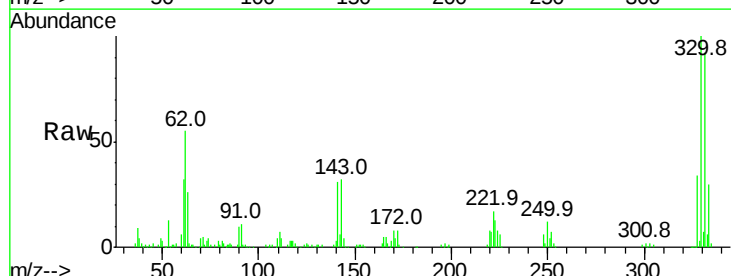


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

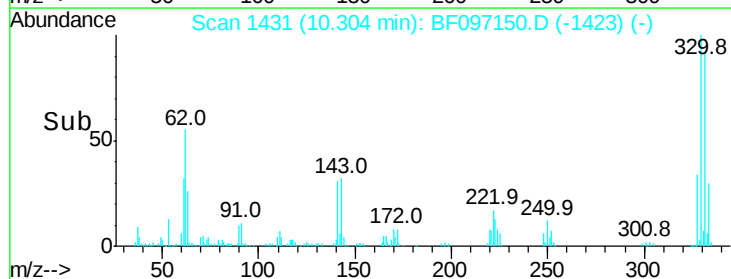
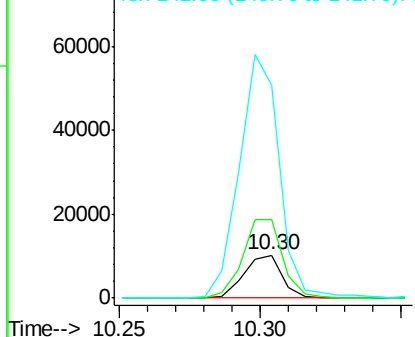


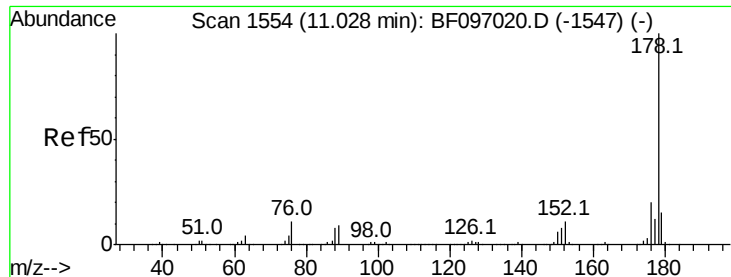
#66  
4-Bromophenyl-phenylether  
Concen: 3.556 ng  
RT: 10.30 min Scan# 1431  
Delta R.T. -0.25 min  
Lab File: BF097150.D  
Acq: 28 Jul 2017 13:15

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 183.2 | 76.8  | 115.2# |
| 141     | 494.3 | 68.6  | 103.0# |



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





#70

Phenanthrene

Concen: 2.278 ng

RT: 11.01 min Scan# 1551

Delta R.T. -0.02 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

Instrument :

BNA\_F

ClientSampleId :

T-1B-14.5-15.0-072117

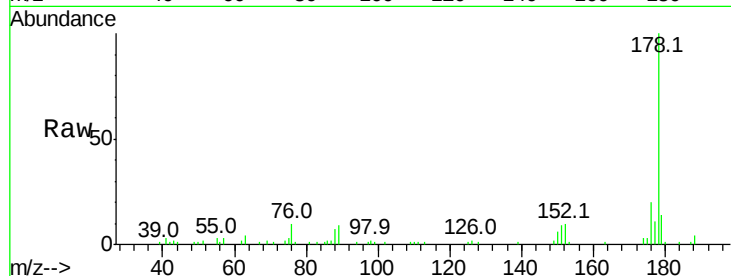
Tot Ion:178 Resp: 32811

Ion Ratio Lower Upper

178 100

176 19.7 16.2 24.4

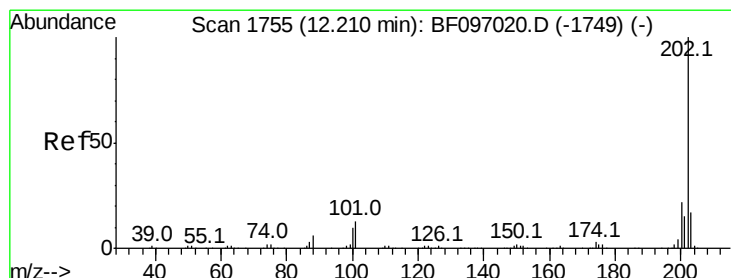
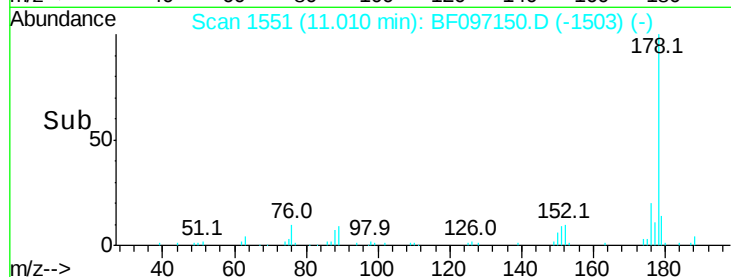
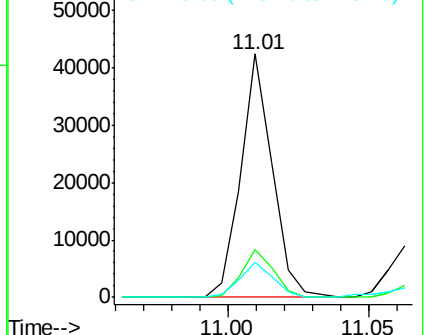
179 14.3 12.6 19.0



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



#74

Fluoranthene

Concen: 4.007 ng

RT: 12.19 min Scan# 1752

Delta R.T. -0.02 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

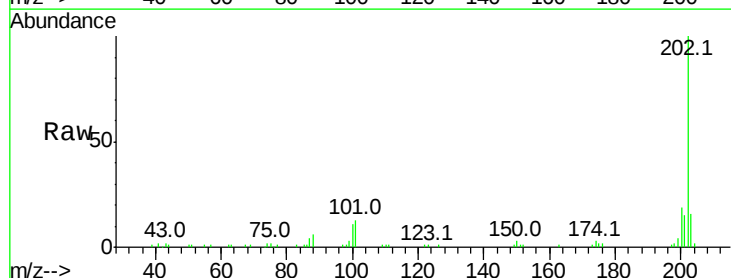
Tgt Ion:202 Resp: 56537

Ion Ratio Lower Upper

202 100

101 13.4 0.0 33.2

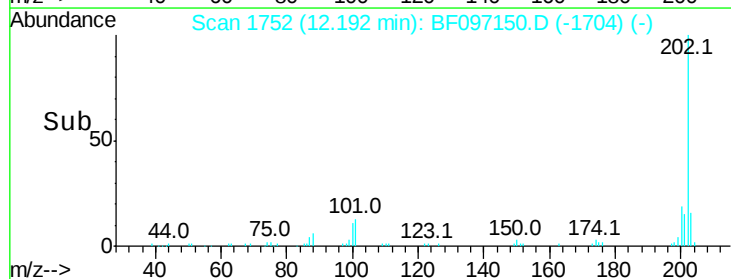
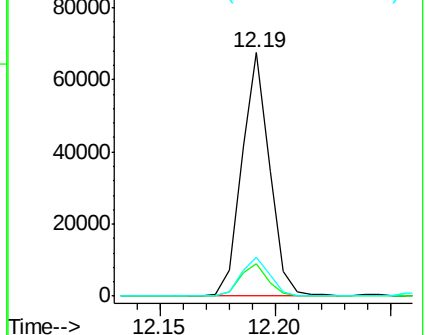
203 15.8 0.0 38.1

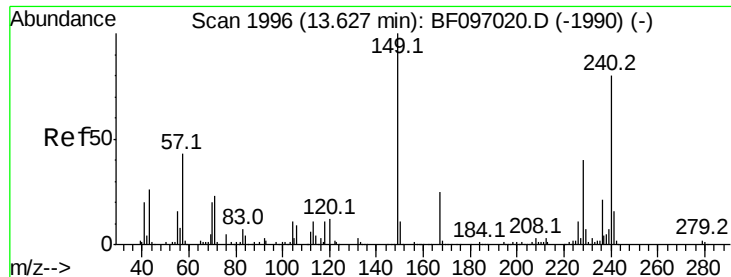


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.61 min Scan# 1993

Delta R.T. -0.02 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

Instrument :

BNA\_F

ClientSampleId :

T-1B-14.5-15.0-072117

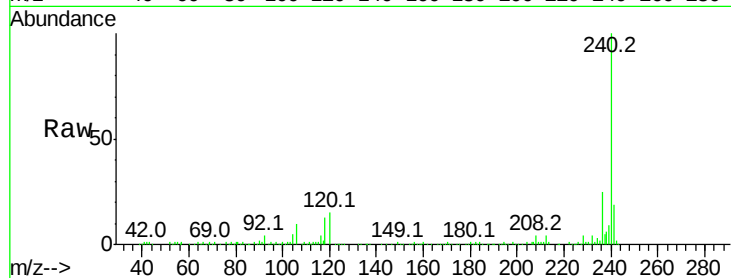
Tot Ion:240 Resp: 205290

Ion Ratio Lower Upper

240 100

120 15.2 5.8 8.8#

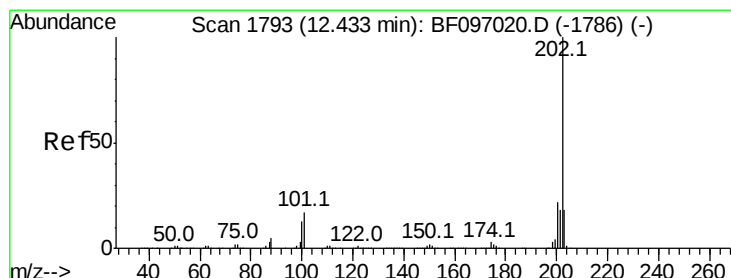
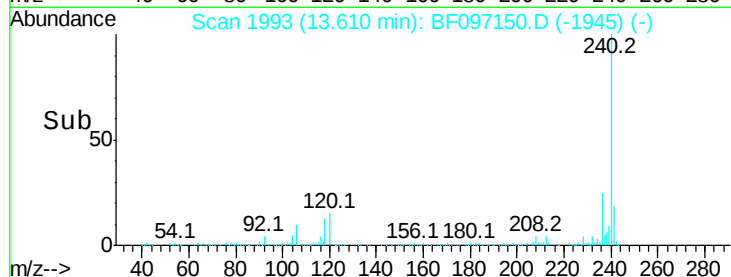
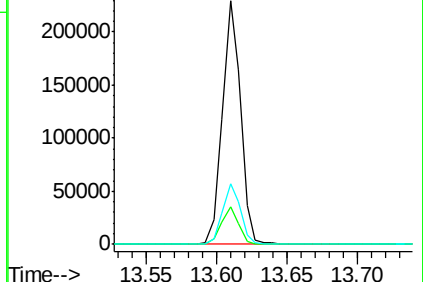
236 25.1 20.5 30.7



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: 2.910 ng

RT: 12.42 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

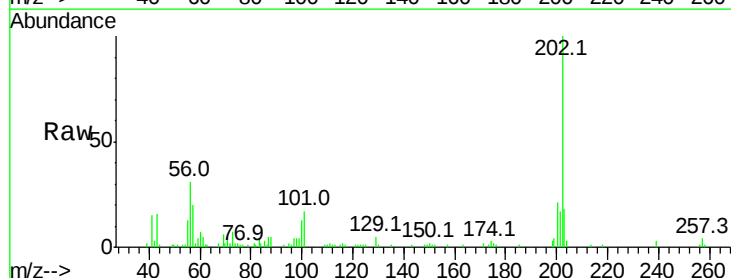
Tgt Ion:202 Resp: 48906

Ion Ratio Lower Upper

202 100

200 20.6 17.6 26.4

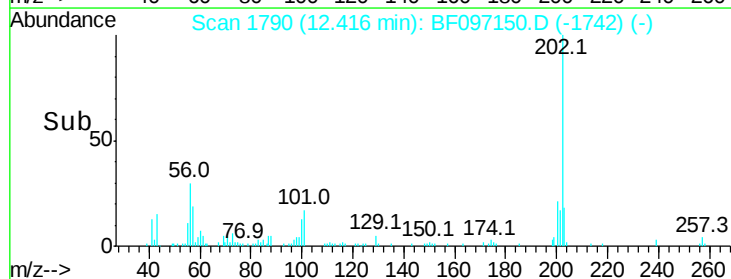
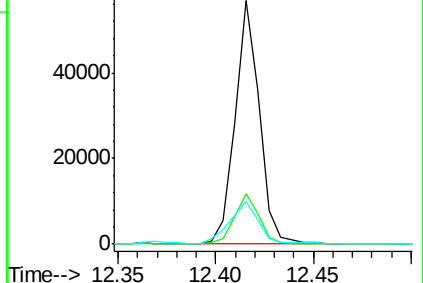
203 17.6 14.4 21.6

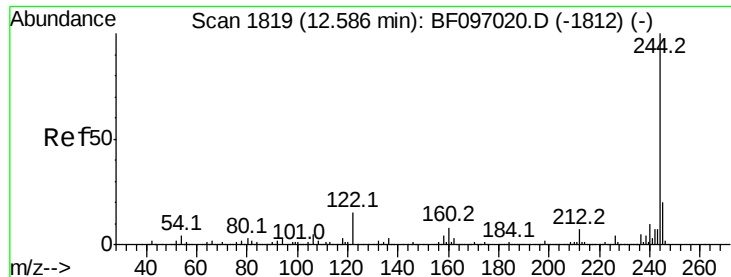


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 47.206 ng

RT: 12.57 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

Instrument :

BNA\_F

ClientSampleId :

T-1B-14.5-15.0-072117

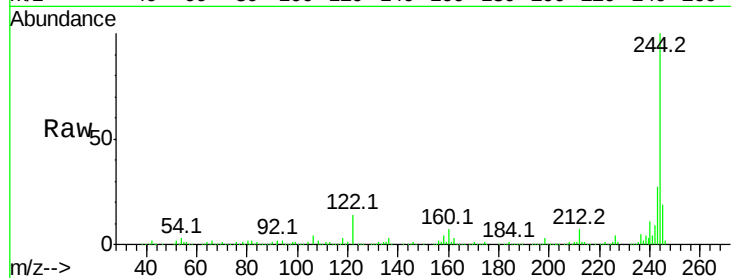
Tot Ion:244 Resp: 475317

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

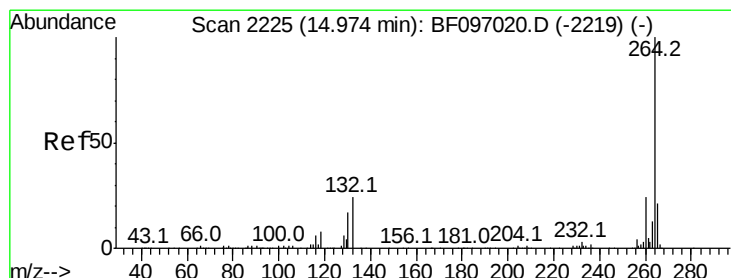
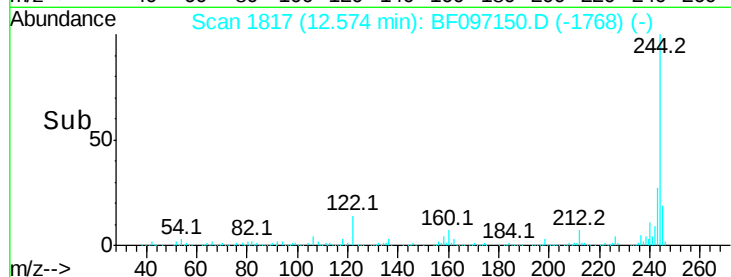
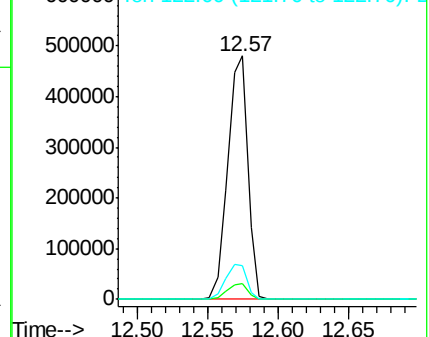
122 13.9 10.3 15.5



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: 20.000 ng

RT: 14.96 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

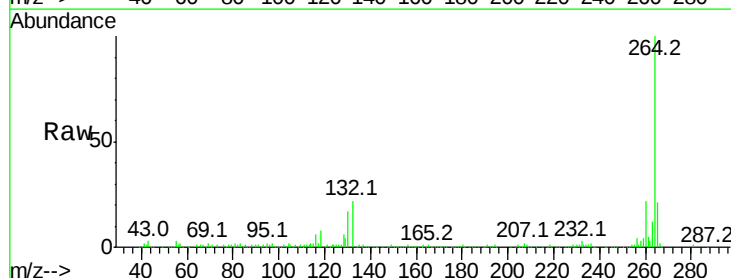
Tgt Ion:264 Resp: 192784

Ion Ratio Lower Upper

264 100

260 22.3 19.5 29.3

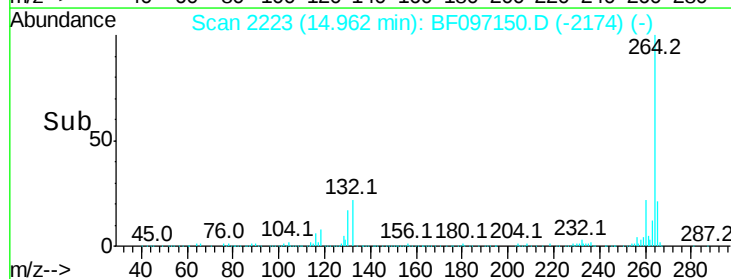
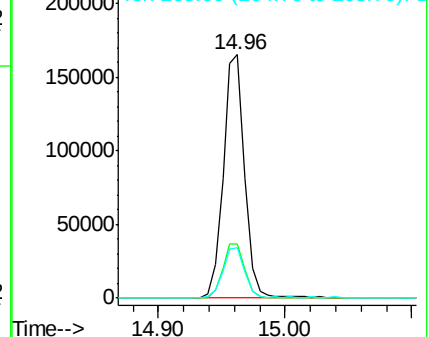
265 20.6 17.2 25.8

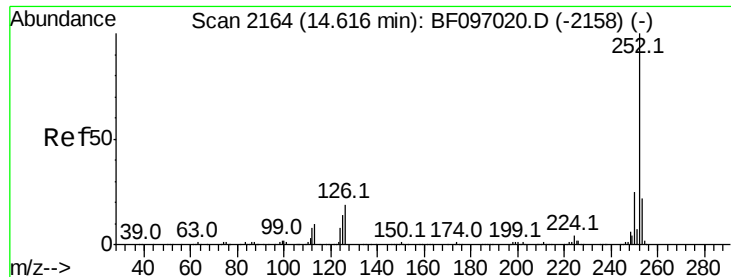


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 3.709 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

Instrument :

BNA\_F

ClientSampleId :

T-1B-14.5-15.0-072117

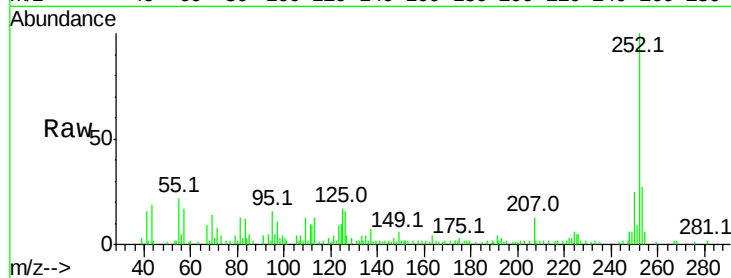
Tot Ion:252 Resp: 42984

Ion Ratio Lower Upper

252 100

253 26.8 18.1 27.1

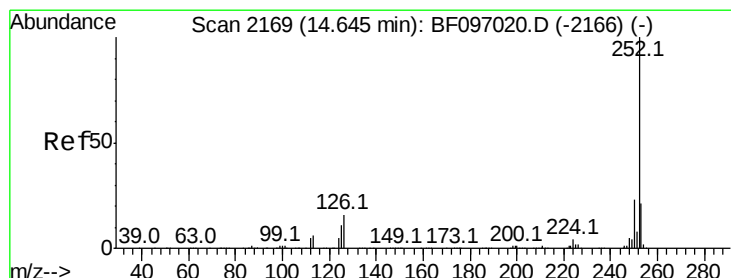
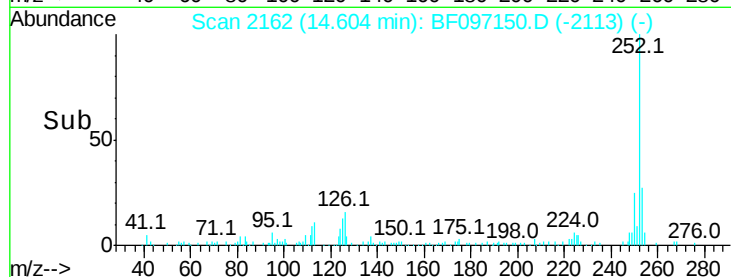
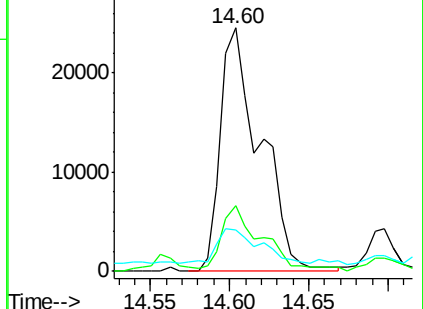
125 17.2 9.8 14.8#



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



#88

Benzo(k)fluoranthene

Concen: 3.892 ng

RT: 14.60 min Scan# 2162

Delta R.T. -0.04 min

Lab File: BF097150.D

Acq: 28 Jul 2017 13:15

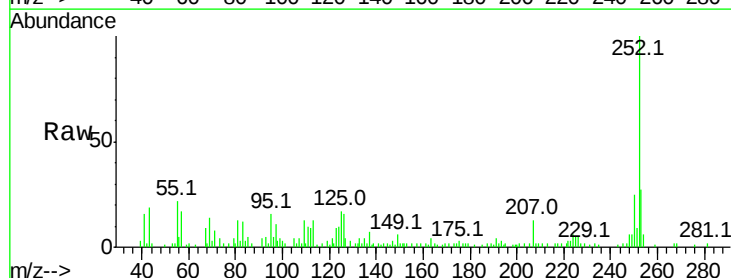
Tgt Ion:252 Resp: 42984

Ion Ratio Lower Upper

252 100

253 26.8 18.4 27.6

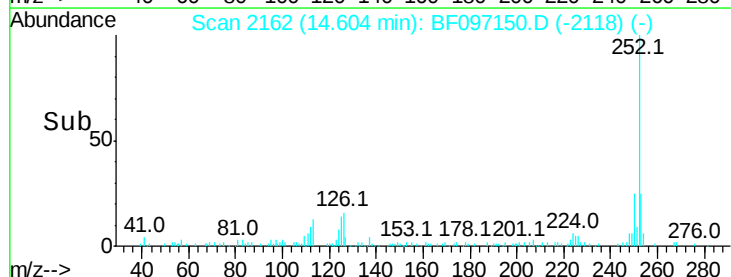
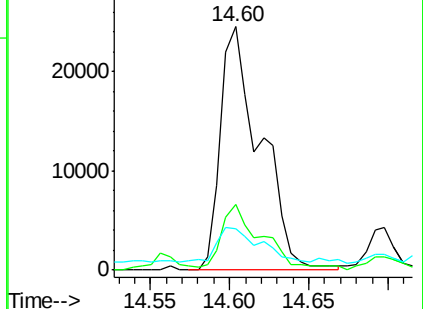
125 17.2 13.1 19.7

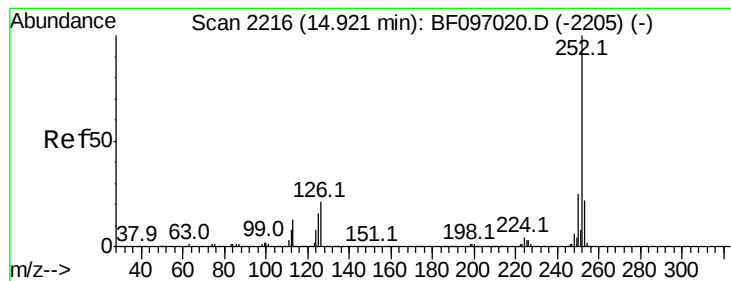


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 2.123 ng

RT: 14.90 min Scan# 2213

Delta R.T. -0.02 min

Lab File: BF097150.D

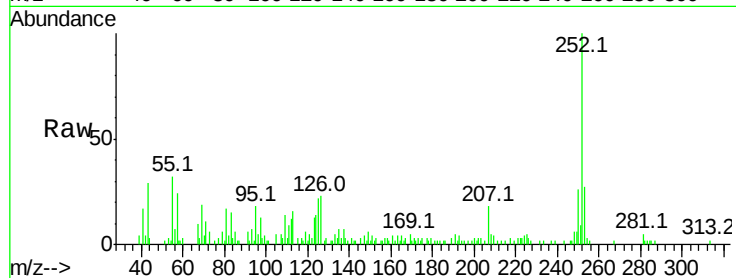
Acq: 28 Jul 2017 13:15

Instrument :

BNA\_F

ClientSampleId :

T-1B-14.5-15.0-072117



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 22512 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.5  | 17.5  | 26.3# |
| 125       | 22.0  | 11.0  | 16.4# |

