

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\  
 Data File : BF097816.D  
 Acq On : 18 Aug 2017 6:00  
 Operator : SJ/JU  
 Sample : I4752-04  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RMAB-MW-10-GW

Quant Time: Aug 18 07:08:58 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 15 13:25:08 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.77  | 152  | 145637   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.06  | 136  | 520128   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.81  | 164  | 185963   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.30 | 188  | 306812   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.93 | 240  | 304879   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.36 | 264  | 211249   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.39  | 112  | 440952   | 46.05 | ng    | 0.00     |
| 7) Phenol-d6                | 6.40  | 99   | 532819   | 40.96 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.34  | 82   | 795242   | 83.06 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 142033   | 88.03 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.14  | 172  | 1028755  | 81.28 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.89 | 244  | 750273   | 51.32 | ng    | 0.00     |

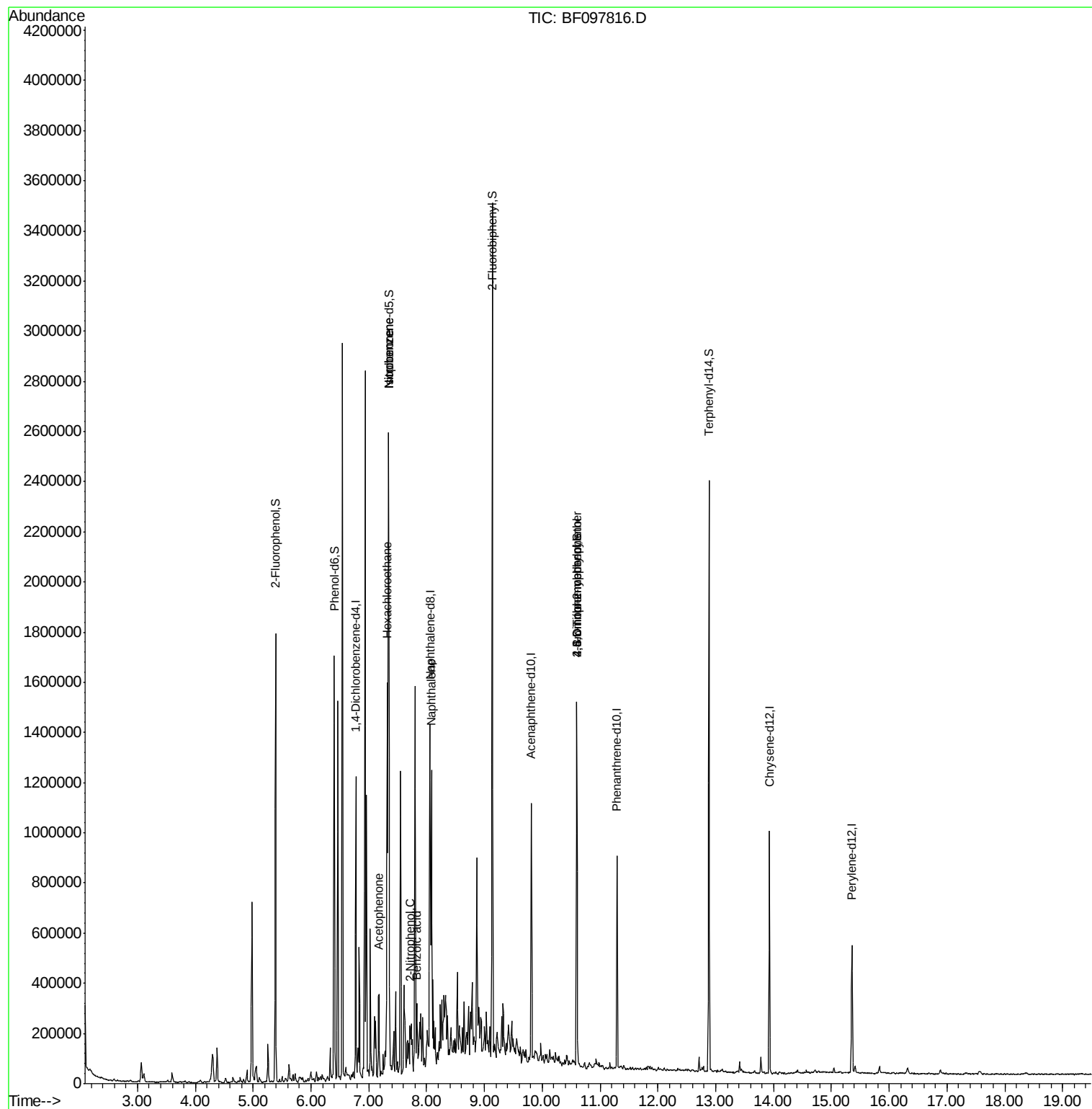
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 18) Hexachloroethane           | 7.32  | 117  | 66934    | 15.46 | ng    | # 1    |
| 22) Acetophenone               | 7.17  | 105  | 121757   | 8.86  | ng    | # 49   |
| 24) Nitrobenzene               | 7.35  | 77   | 23097    | 2.17  | ng    | # 7    |
| 25) Isophorone                 | 7.34  | 82   | 793052   | 39.83 | ng    | # 67   |
| 26) 2-Nitrophenol              | 7.72  | 139  | 285      | 5.32  | ng    | # 1    |
| 31) Naphthalene                | 8.08  | 128  | 248585   | 9.21  | ng    | # 93   |
| 32) Benzoic acid               | 7.82  | 122  | 4709     | 7.08  | ng    | # 58   |
| 64) 4,6-Dinitro-2-methylphenol | 10.60 | 198  | 190      | 8.43  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.60 | 248  | 9727     | 3.05  | ng    | # 1    |

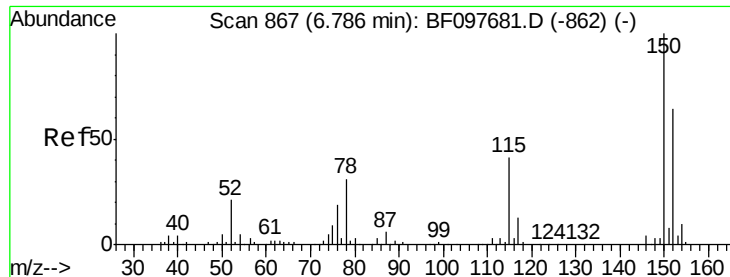
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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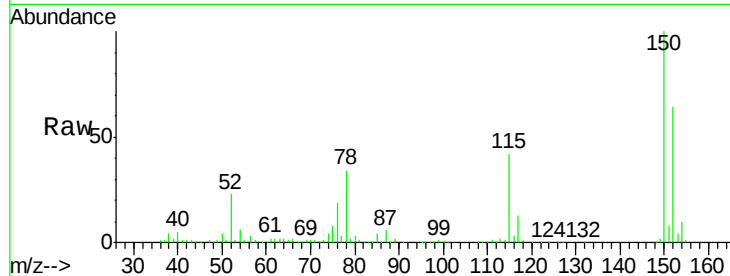


#1

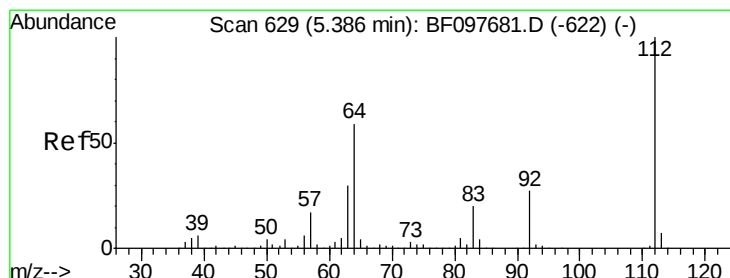
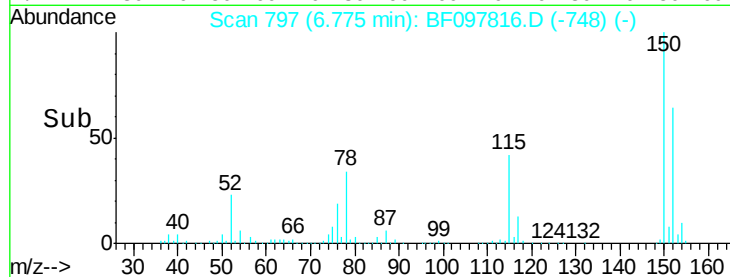
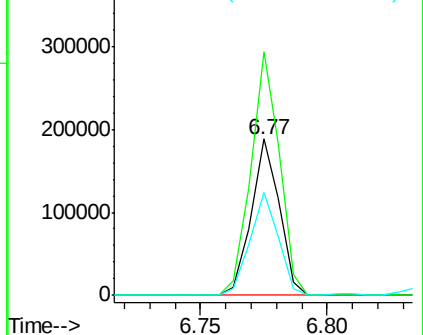
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.77 min Scan# 797  
Delta R.T. -0.01 min  
Lab File: BF097816.D  
Acq: 18 Aug 2017 6:00

Instrument :  
BNA\_F  
ClientSampleId :  
RMAB-MW-10-GW

Tot Ion:152 Resp: 145637  
Ion Ratio Lower Upper  
152 100  
150 155.6 126.2 189.2  
115 65.5 52.2 78.2



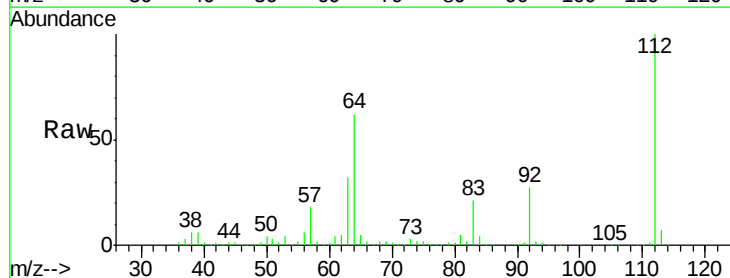
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



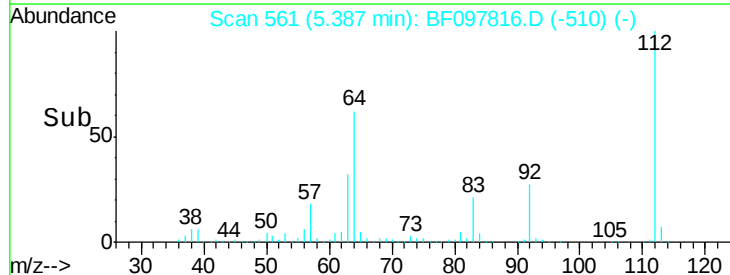
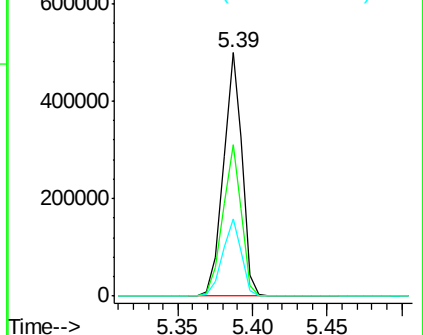
#5

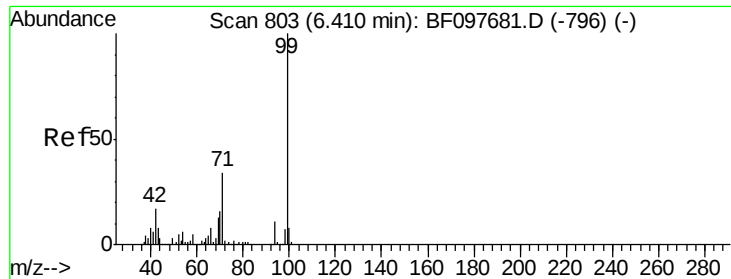
2-Fluorophenol  
Concen: 46.05 ng  
RT: 5.39 min Scan# 561  
Delta R.T. 0.00 min  
Lab File: BF097816.D  
Acq: 18 Aug 2017 6:00

Tgt Ion:112 Resp: 440952  
Ion Ratio Lower Upper  
112 100  
64 62.1 46.0 69.0  
63 31.9 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: 40.96 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF097816.D

Acq: 18 Aug 2017 6:00

Instrument :

BNA\_F

ClientSampleId :

RMAB-MW-10-GW

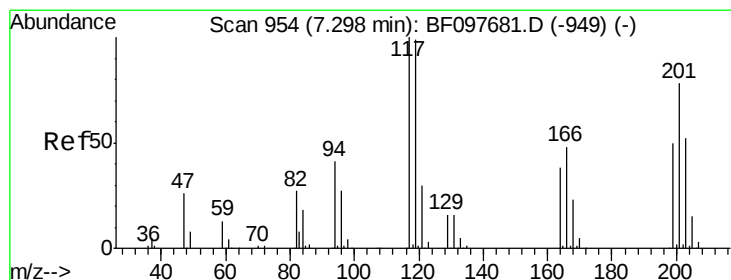
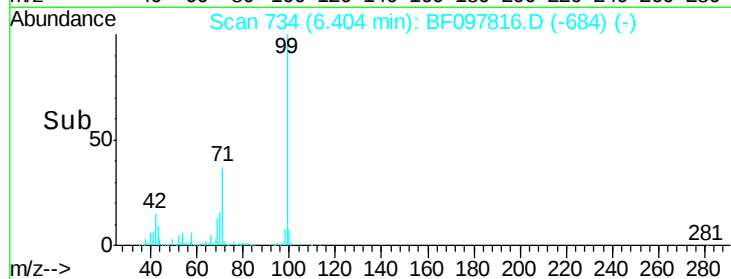
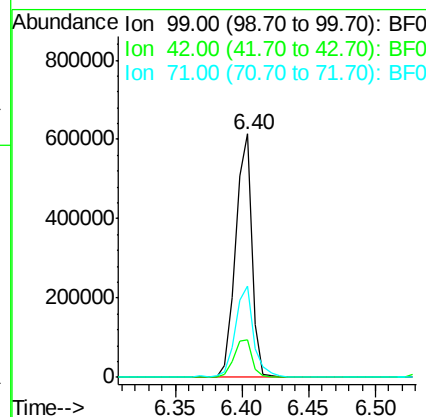
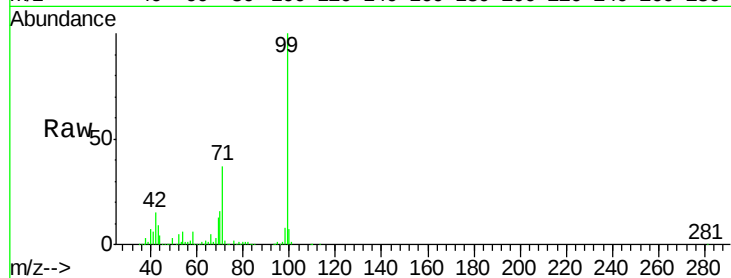
Tot Ion: 99 Resp: 532819

Ion Ratio Lower Upper

99 100

42 15.4 13.5 20.3

71 37.3 24.5 36.7#



#18

Hexachloroethane

Concen: 15.46 ng

RT: 7.32 min Scan# 889

Delta R.T. 0.02 min

Lab File: BF097816.D

Acq: 18 Aug 2017 6:00

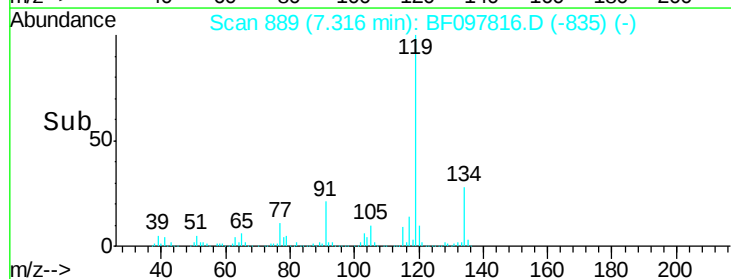
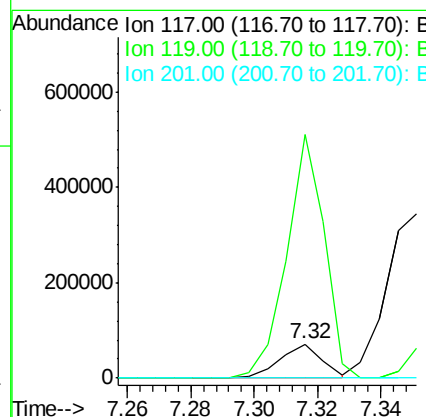
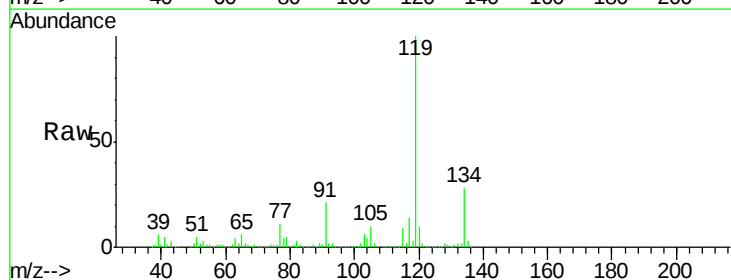
Tgt Ion: 117 Resp: 66934

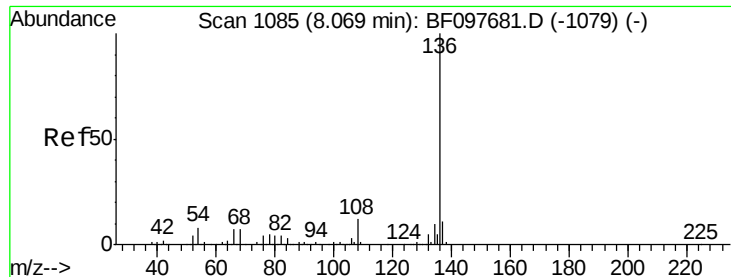
Ion Ratio Lower Upper

117 100

119 713.5 77.4 116.0#

201 0.0 94.6 141.8#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BF097816.D

Acq: 18 Aug 2017 6:00

Instrument :

BNA\_F

ClientSampleId :

RMAB-MW-10-GW

Tot Ion:136 Resp: 520128

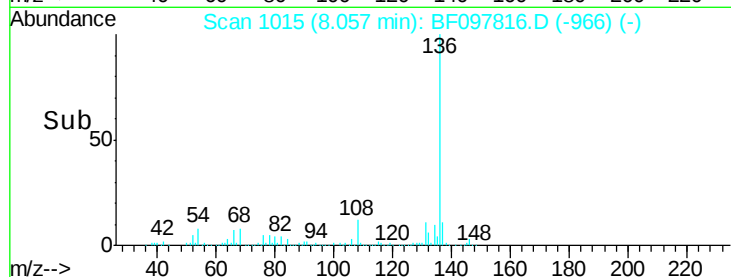
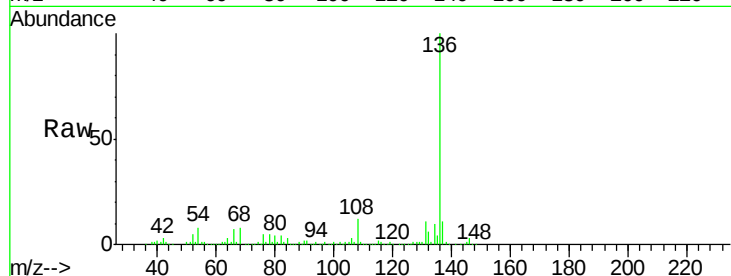
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 8.3 4.9 7.3#

68 8.0 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

8.06

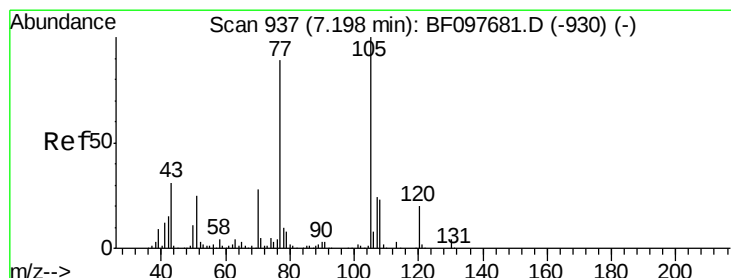
600000

400000

200000

0

Time-->



#22

Acetophenone

Concen: 8.86 ng

RT: 7.17 min Scan# 864

Delta R.T. -0.03 min

Lab File: BF097816.D

Acq: 18 Aug 2017 6:00

Tgt Ion:105 Resp: 121757

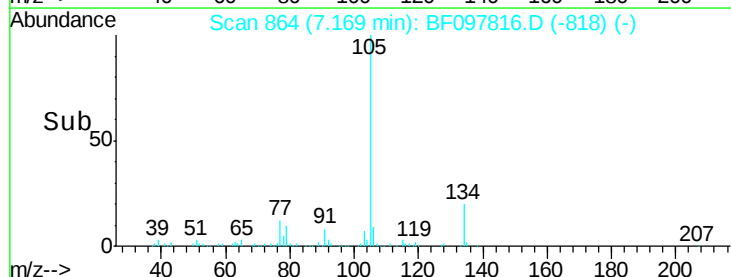
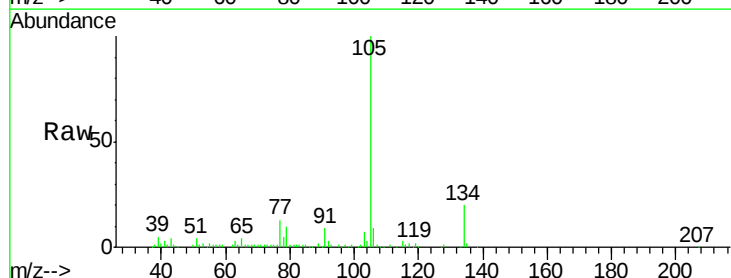
Ion Ratio Lower Upper

105 100

71 1.2 2.8 4.2#

51 3.5 30.7 46.1#

120 0.3 17.4 26.0#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E

7.17

200000

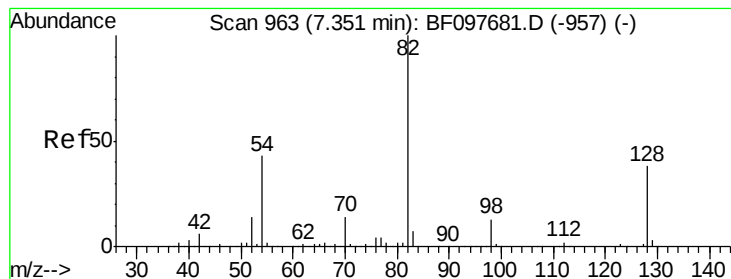
150000

100000

50000

0

Time-->



#23

Nitrobenzene-d5

Concen: 83.06 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.01 min

Lab File: BF097816.D

Acq: 18 Aug 2017 6:00

Instrument :

BNA\_F

ClientSampleId :

RMAB-MW-10-GW

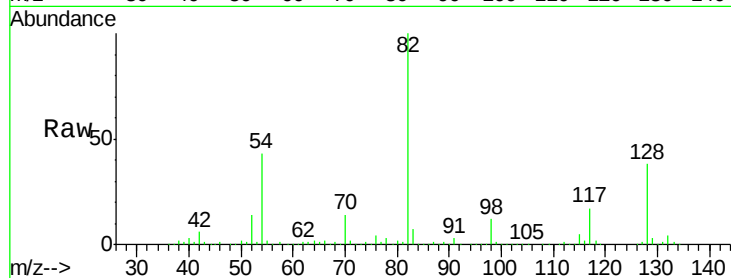
Tot Ion: 82 Resp: 795242

Ion Ratio Lower Upper

82 100

128 37.6 34.0 51.0

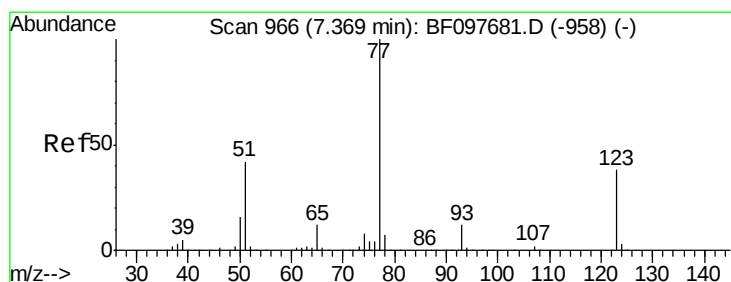
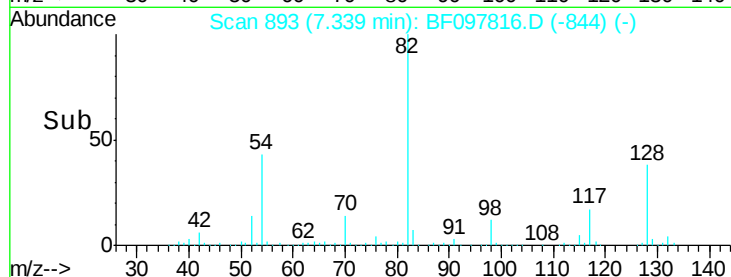
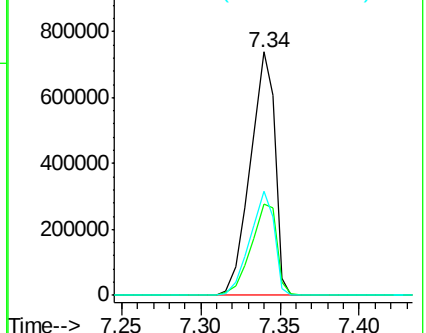
54 42.6 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#24

Nitrobenzene

Concen: 2.17 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.02 min

Lab File: BF097816.D

Acq: 18 Aug 2017 6:00

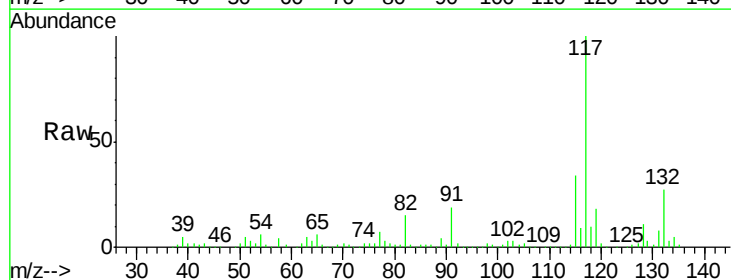
Tgt Ion: 77 Resp: 23097

Ion Ratio Lower Upper

77 100

123 1.6 35.8 53.8#

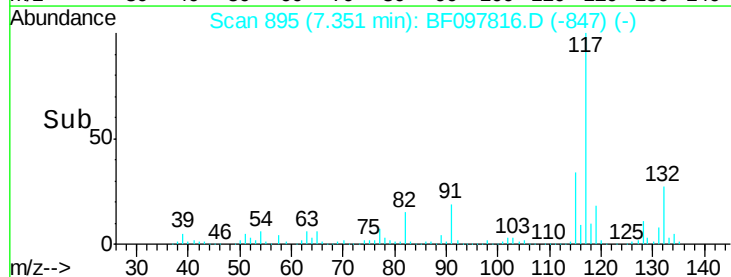
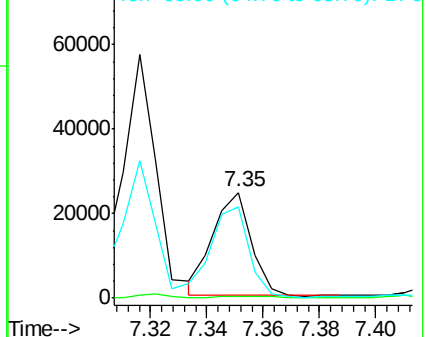
65 86.7 10.6 15.8#

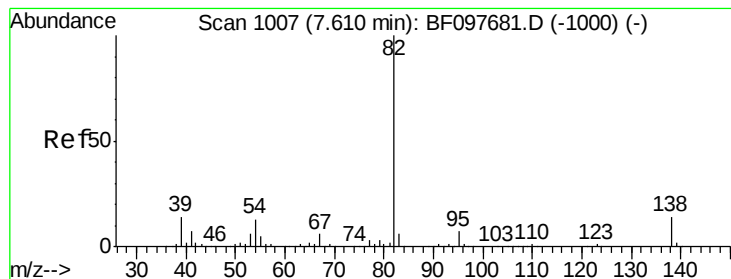


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 123.00 (122.70 to 123.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#25

Isophorone

Concen: 39.83 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.27 min

Lab File: BF097816.D

Acq: 18 Aug 2017 6:00

Instrument :

BNA\_F

ClientSampleId :

RMAB-MW-10-GW

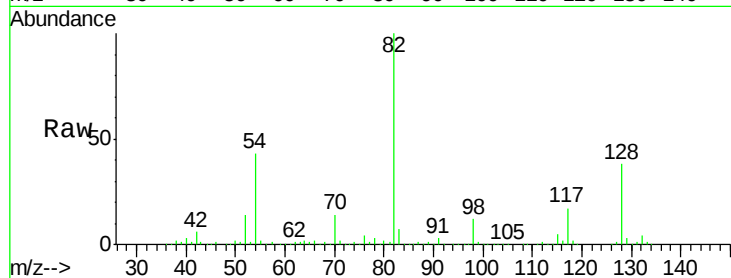
Tot Ion: 82 Resp: 793052

Ion Ratio Lower Upper

82 100

95 0.1 5.3 7.9#

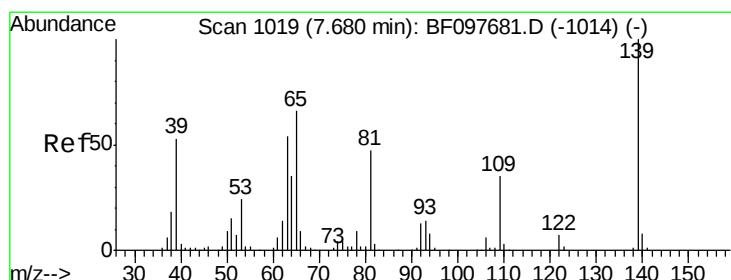
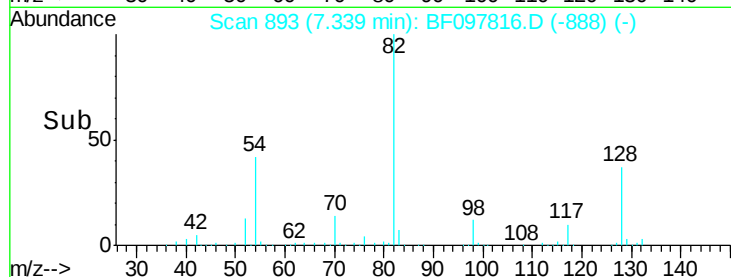
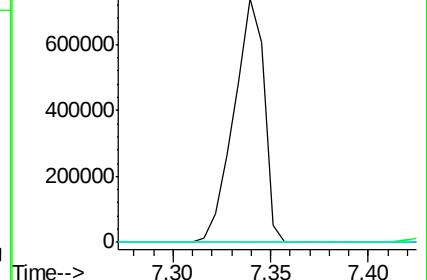
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#26

2-Nitrophenol

Concen: 5.32 ng

RT: 7.72 min Scan# 957

Delta R.T. 0.04 min

Lab File: BF097816.D

Acq: 18 Aug 2017 6:00

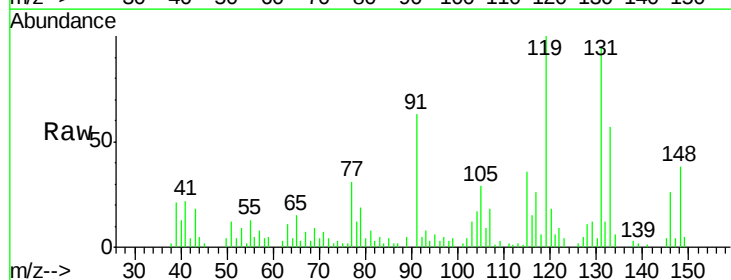
Tgt Ion: 139 Resp: 285

Ion Ratio Lower Upper

139 100

109 132.8 21.0 31.6#

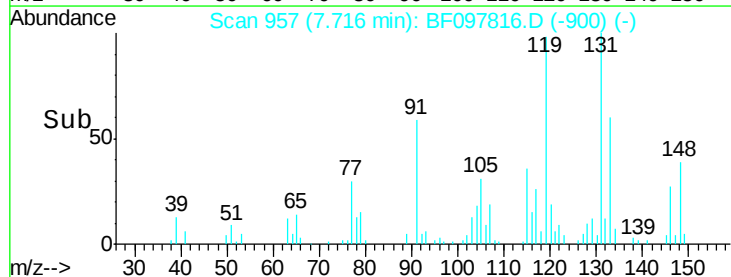
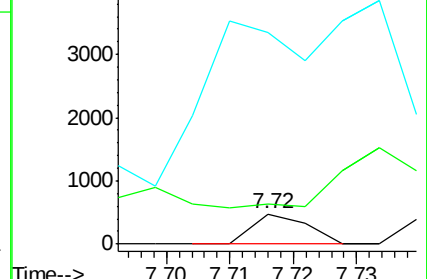
65 703.4 33.0 49.6#

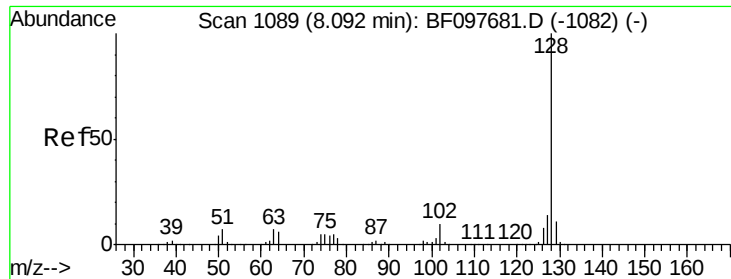


Abundance Ion 139.00 (138.70 to 139.70): BF0

Ion 109.00 (108.70 to 109.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

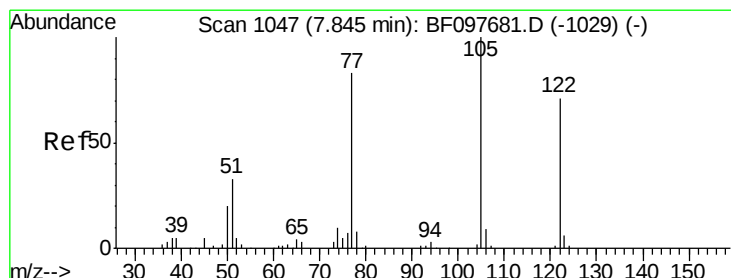
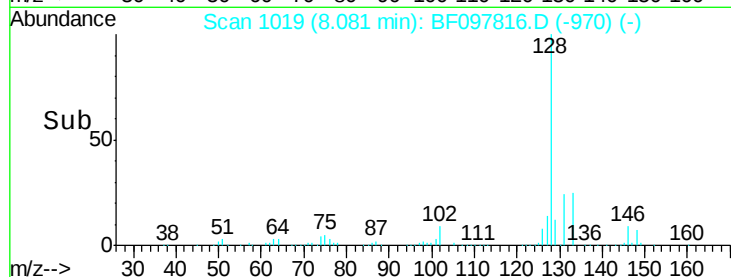
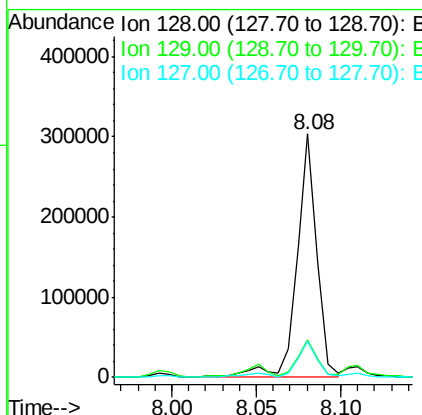
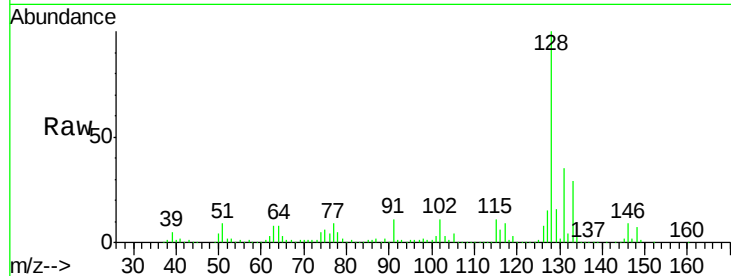




#31  
Naphthalene  
Concen: 9.21 ng  
RT: 8.08 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: BF097816.D  
Acq: 18 Aug 2017 6:00

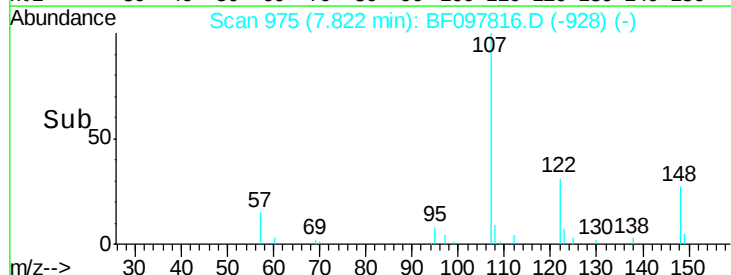
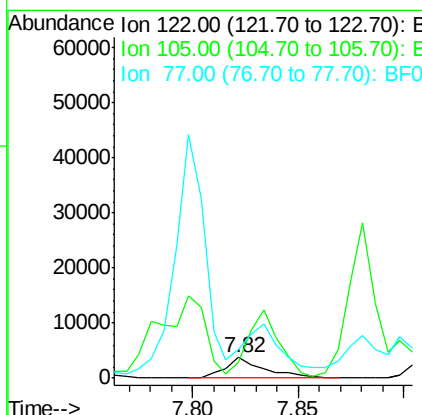
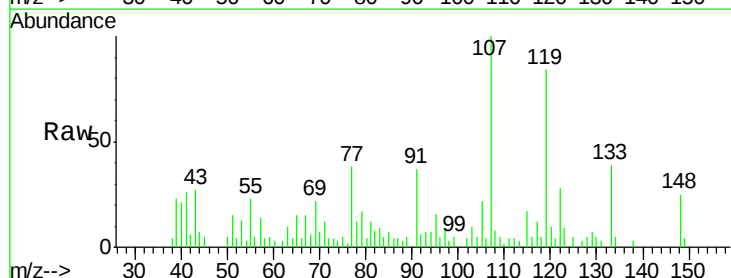
Instrument :  
BNA\_F  
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RMAB-MW-10-GW

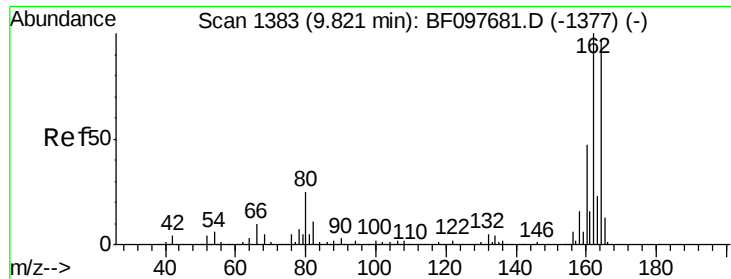
Tot Ion:128 Resp: 248585  
Ion Ratio Lower Upper  
128 100  
129 15.5 9.0 13.6#  
127 15.0 10.8 16.2



#32  
Benzoic acid  
Concen: 7.08 ng  
RT: 7.82 min Scan# 975  
Delta R.T. -0.02 min  
Lab File: BF097816.D  
Acq: 18 Aug 2017 6:00

Tgt Ion:122 Resp: 4709  
Ion Ratio Lower Upper  
122 100  
105 78.4 103.3 143.3#  
77 136.6 73.7 113.7#

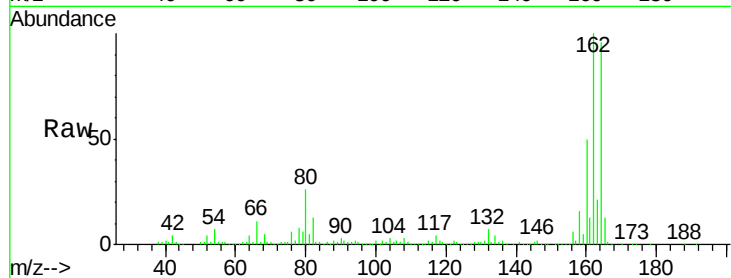




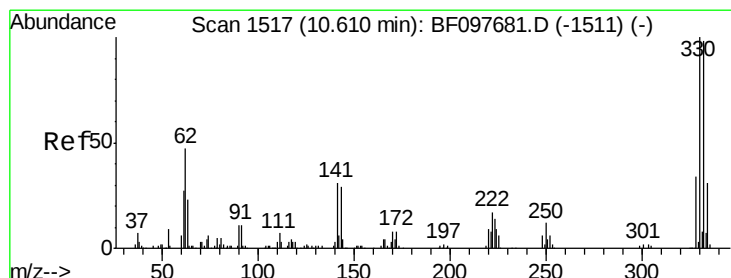
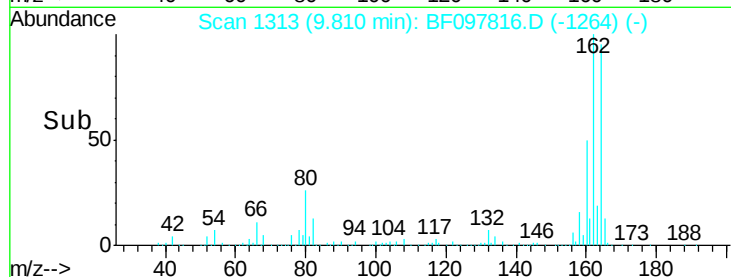
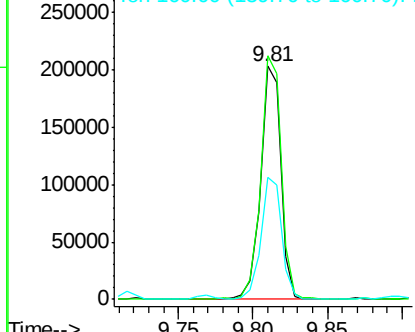
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.81 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BF097816.D  
Acq: 18 Aug 2017 6:00

Instrument :  
BNA\_F  
ClientSampleId :  
RMAB-MW-10-GW

Tot Ion:164 Resp: 185963  
Ion Ratio Lower Upper  
164 100  
162 104.5 82.6 123.8  
160 52.4 36.2 54.2

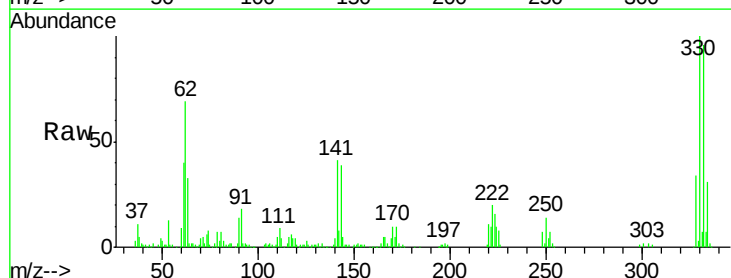


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

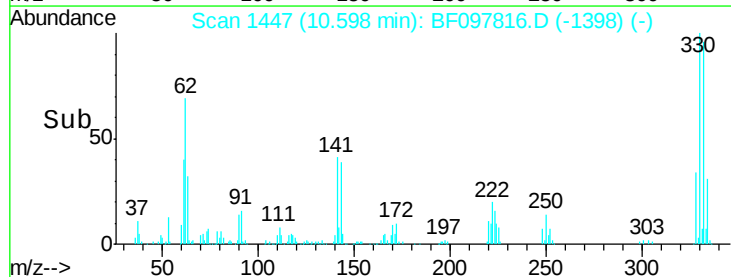
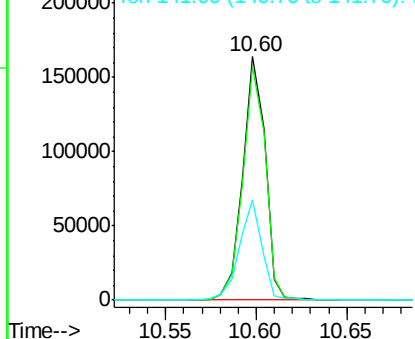


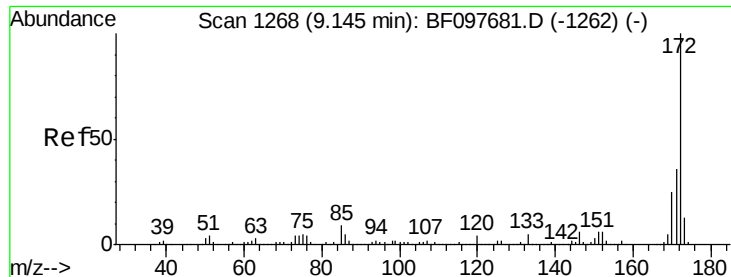
#41  
2,4,6-Tribromophenol  
Concen: 88.03 ng  
RT: 10.60 min Scan# 1447  
Delta R.T. -0.01 min  
Lab File: BF097816.D  
Acq: 18 Aug 2017 6:00

Tgt Ion:330 Resp: 142033  
Ion Ratio Lower Upper  
330 100  
332 96.7 76.6 115.0  
141 42.3 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



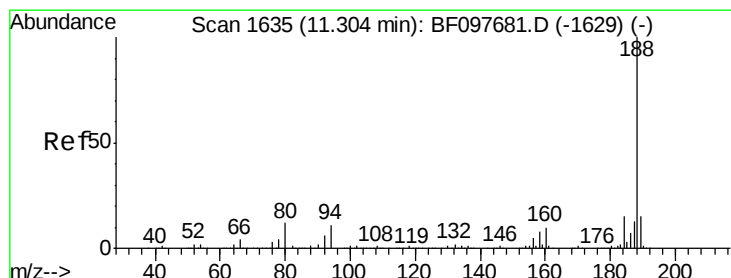
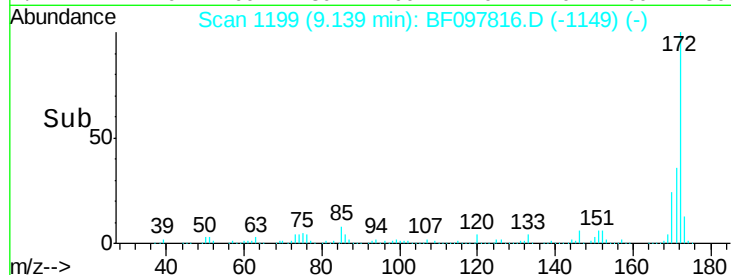
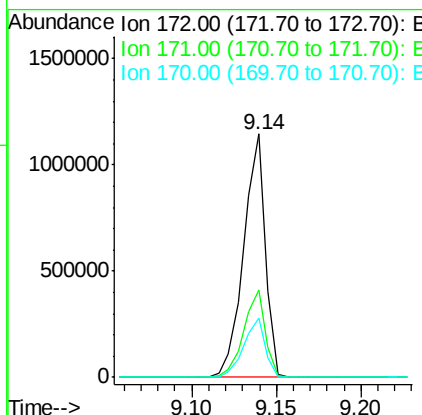
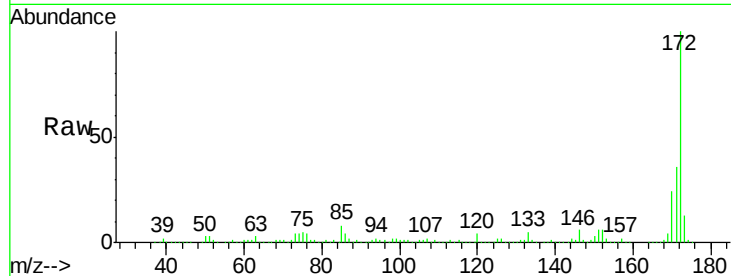


#44  
 2-Fluorobiphenyl  
 Concen: 81.28 ng  
 RT: 9.14 min Scan# 1199  
 Delta R.T. -0.01 min  
 Lab File: BF097816.D  
 Acq: 18 Aug 2017 6:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RMAB-MW-10-GW

Tot Ion:172 Resp: 1028755  

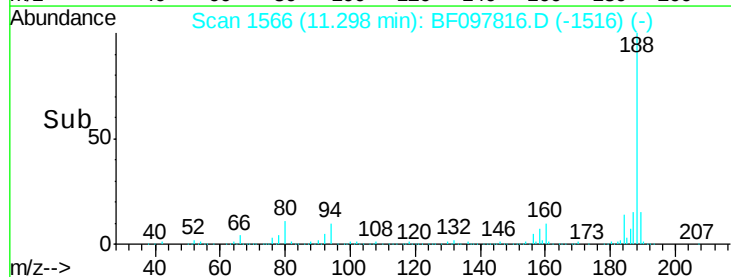
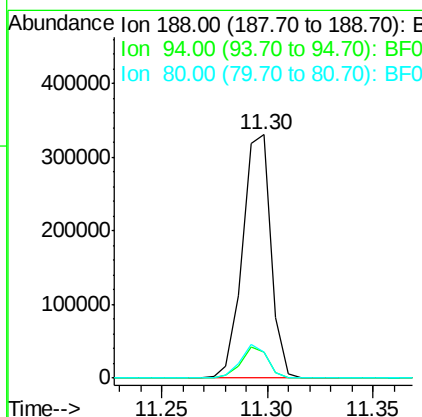
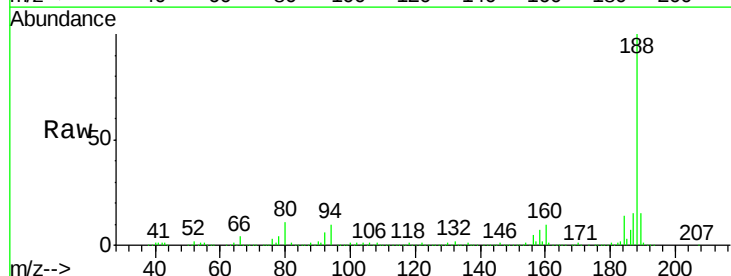
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 35.8  | 29.6  | 44.4  |
| 170 | 24.2  | 19.8  | 29.8  |

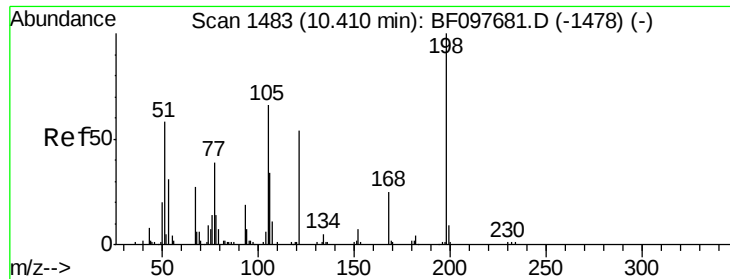


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.30 min Scan# 1566  
 Delta R.T. -0.01 min  
 Lab File: BF097816.D  
 Acq: 18 Aug 2017 6:00

Tgt Ion:188 Resp: 306812  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 10.4  | 9.4   | 14.2  |
| 80  | 10.8  | 10.2  | 15.2  |

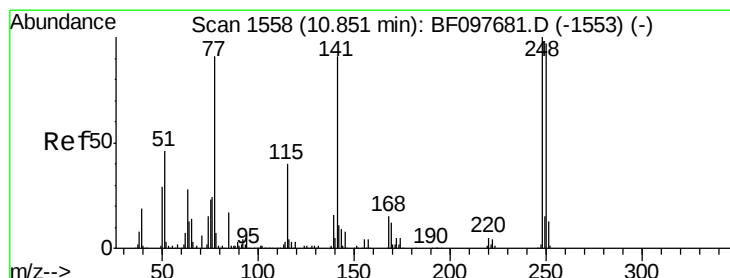
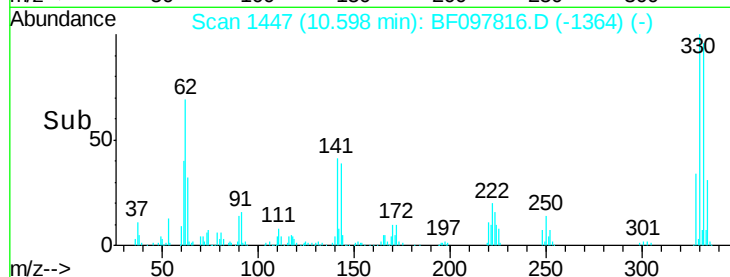
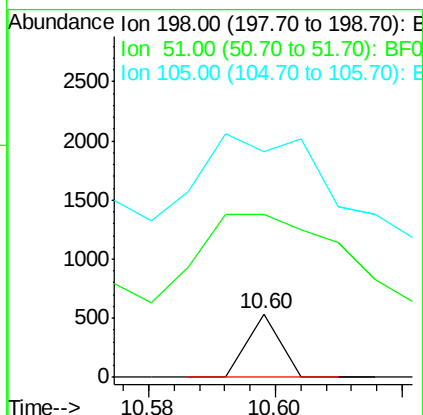
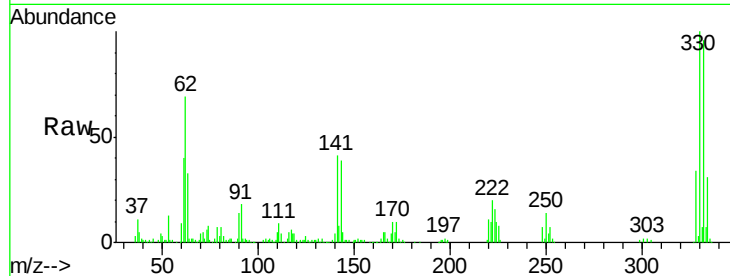




#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.43 ng  
 RT: 10.60 min Scan# 1447  
 Delta R.T. 0.19 min  
 Lab File: BF097816.D  
 Acq: 18 Aug 2017 6:00

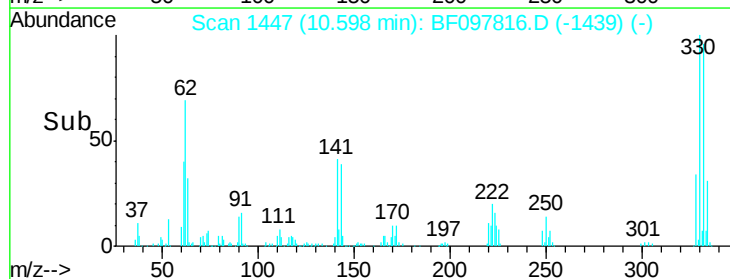
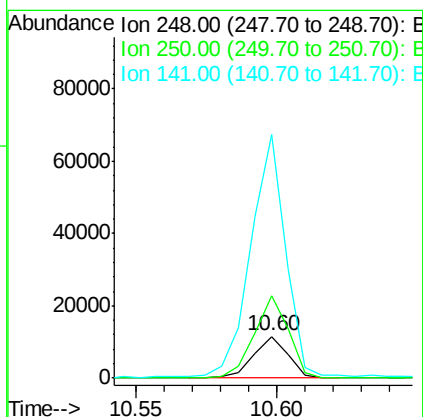
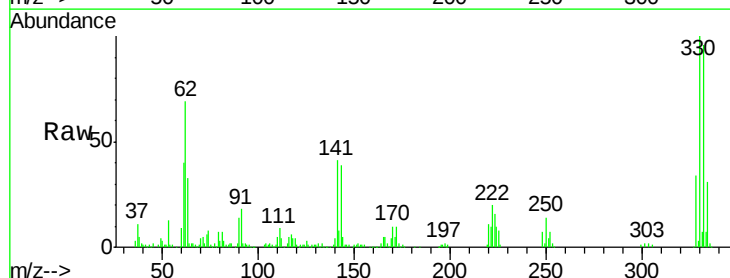
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RMAB-MW-10-GW

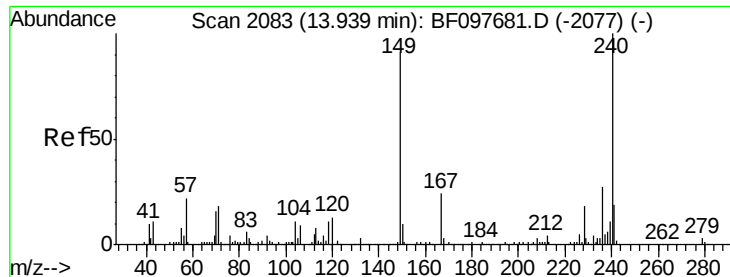
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 255.9 | 53.2  | 93.2# |
| 105     | 355.0 | 45.8  | 85.8# |



#66  
 4-Bromophenyl-phenylether  
 Concen: 3.05 ng  
 RT: 10.60 min Scan# 1447  
 Delta R.T. -0.25 min  
 Lab File: BF097816.D  
 Acq: 18 Aug 2017 6:00

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 198.7 | 76.8  | 115.2# |
| 141     | 583.5 | 68.6  | 103.0# |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.93 min Scan# 2083

Delta R.T. -0.01 min

Lab File: BF097816.D

Acq: 18 Aug 2017 6:00

Instrument :

BNA\_F

ClientSampleId :

RMAB-MW-10-GW

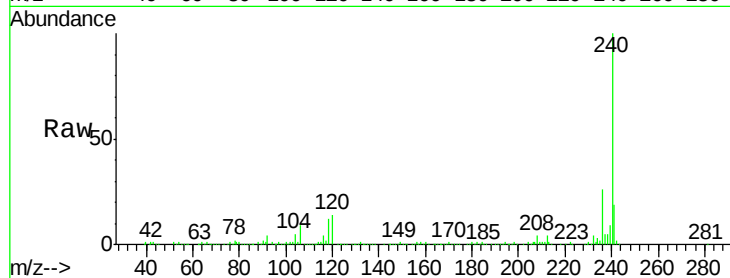
Tot Ion:240 Resp: 304879

Ion Ratio Lower Upper

240 100

120 13.9 5.8 8.8#

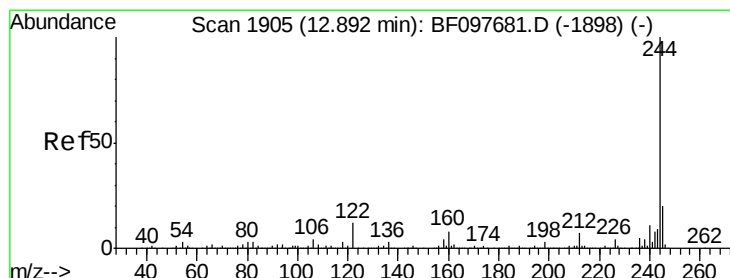
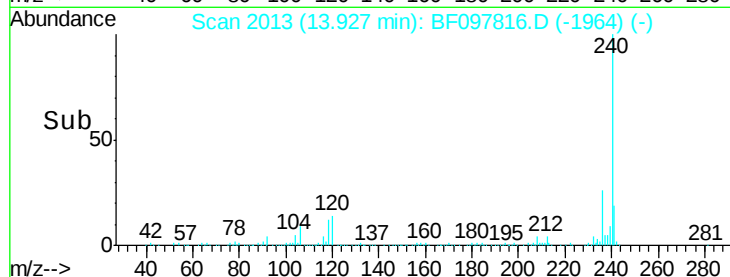
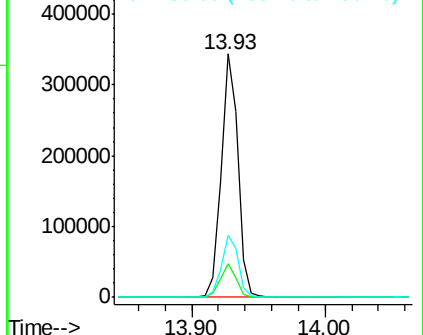
236 25.6 20.5 30.7



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



#78

Terphenyl-d14

Concen: 51.32 ng

RT: 12.89 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BF097816.D

Acq: 18 Aug 2017 6:00

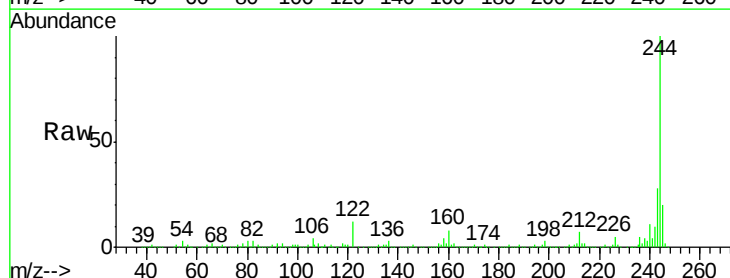
Tgt Ion:244 Resp: 750273

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

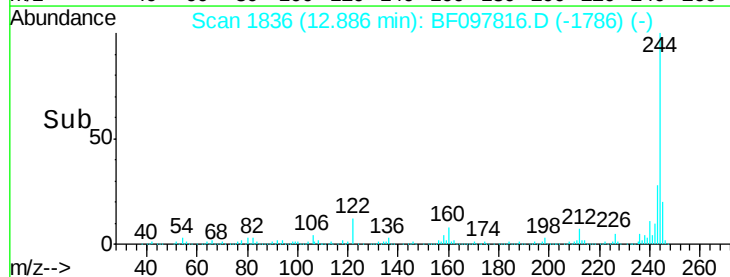
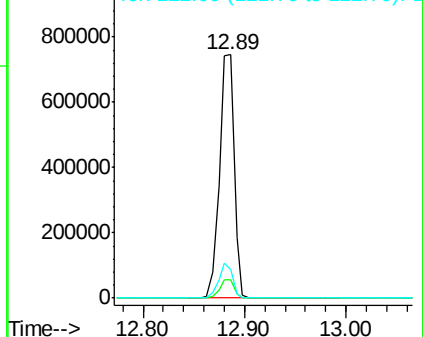
122 12.0 10.3 15.5

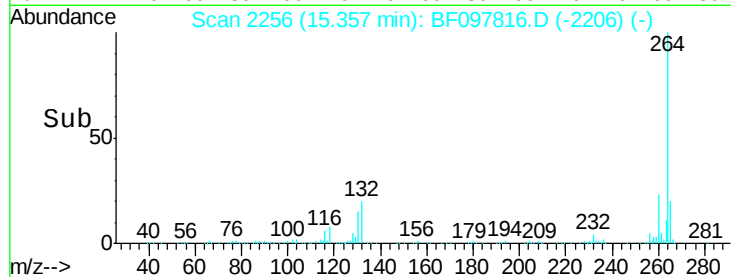
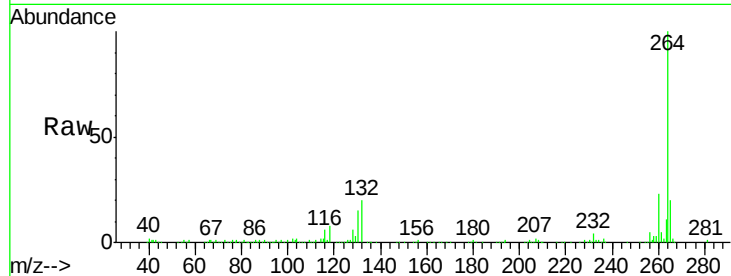
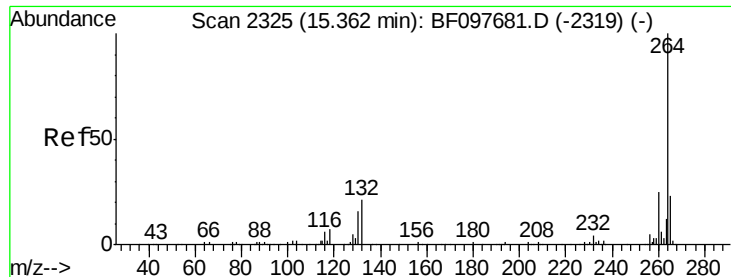


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.36 min Scan# 2256  
Delta R.T. -0.01 min  
Lab File: BF097816.D  
Acq: 18 Aug 2017 6:00

Instrument :  
BNA\_F  
ClientSampleId :  
RMAB-MW-10-GW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.5  | 29.3  |
| 265     | 20.3  | 17.2  | 25.8  |

