

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070218\  
 Data File : BF107069.D  
 Acq On : 3 Jul 2018 3:50  
 Operator : JU/SJ  
 Sample : J3799-02  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 03 05:00:36 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 29 14:38:29 2018  
 Response via : Initial Calibration

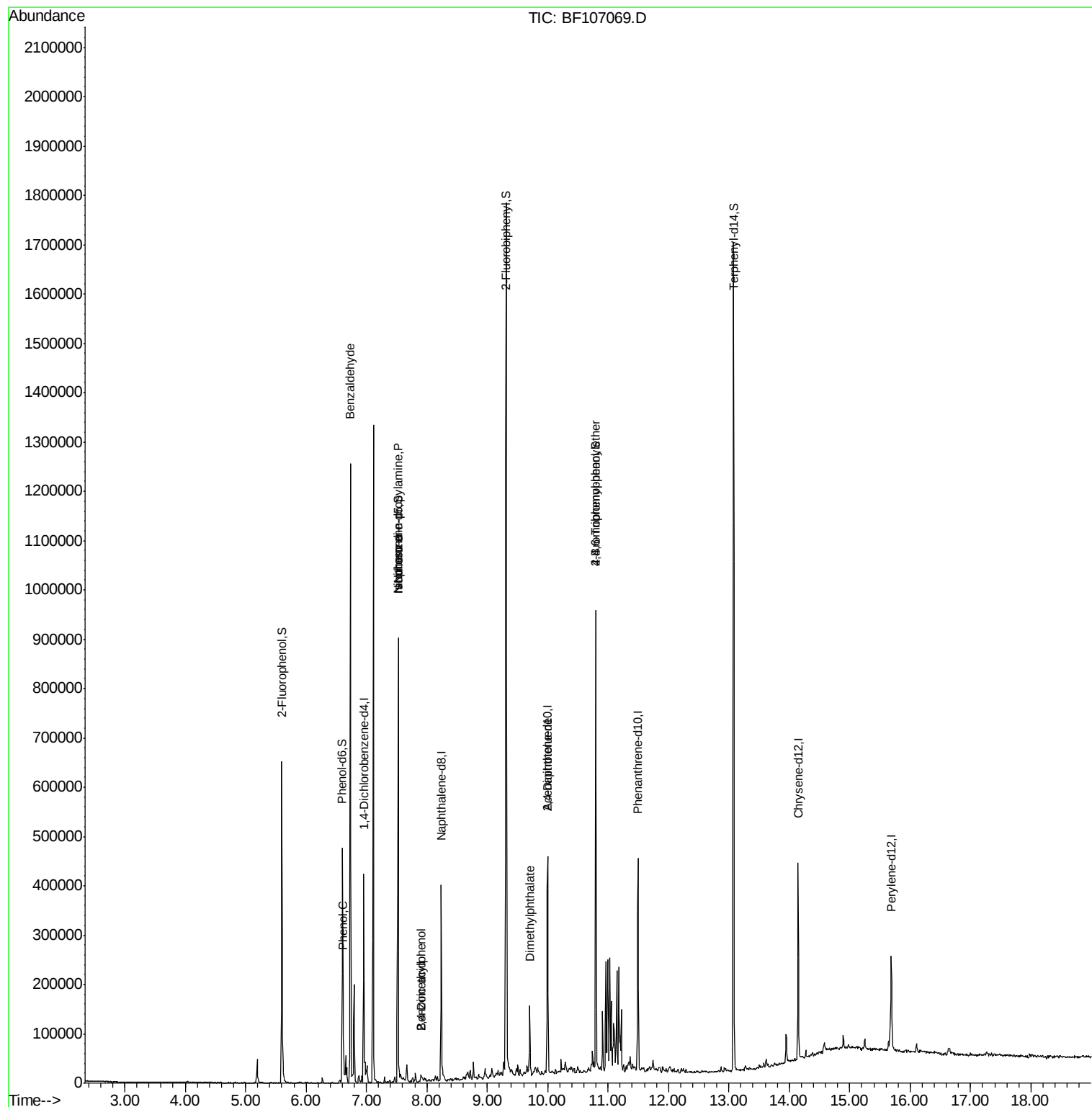
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.95  | 152  | 58012    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.24  | 136  | 206684   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 10.00 | 164  | 91724    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.50 | 188  | 159111   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.15 | 240  | 148087   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.69 | 264  | 108191   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 199793   | 58.32  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.60  | 99   | 164058   | 38.35  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.52  | 82   | 318561   | 85.66  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.80 | 330  | 133592   | 125.66 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.31  | 172  | 582261   | 112.16 | ng    | -0.01    |
| 78) Terphenyl-d14              | 13.08 | 244  | 616552   | 100.85 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.74  | 77   | 7536     | 2.100  | ng    | # 81     |
| 10) Phenol                     | 6.62  | 94   | 12498    | 2.560  | ng    | # 94     |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 41617    | 14.757 | ng    | # 72     |
| 25) Isophorone                 | 7.52  | 82   | 318558   | 48.608 | ng    | # 64     |
| 27) 2,4-Dimethylphenol         | 7.91  | 122  | 5858     | 2.114  | ng    | # 91     |
| 32) Benzoic acid               | 7.91  | 122  | 5858     | 8.291  | ng    | # 15     |
| 49) Dimethylphthalate          | 9.70  | 163  | 56795    | 8.256  | ng    | # 96     |
| 56) 2,4-Dinitrotoluene         | 10.00 | 165  | 11609    | 6.105  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.80 | 248  | 8285     | 4.363  | ng    | # 1      |

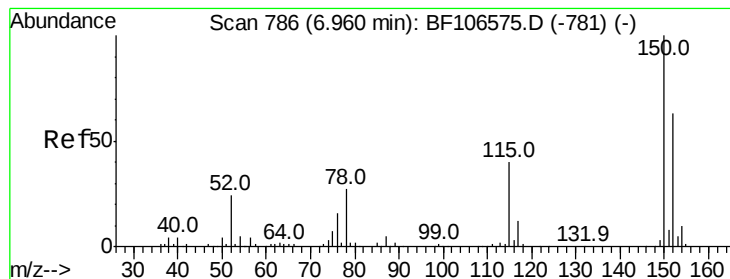
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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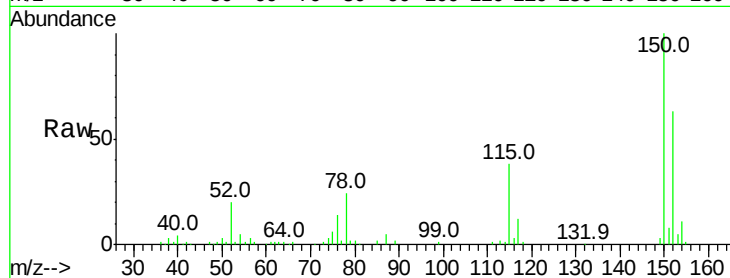


#1

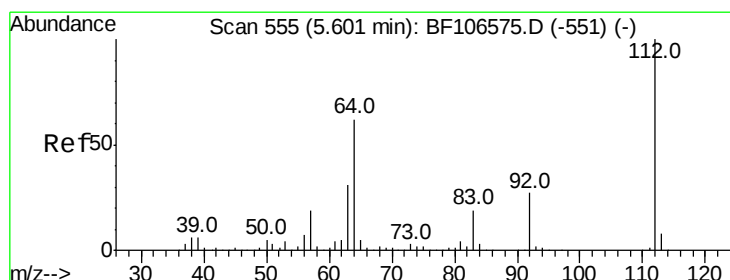
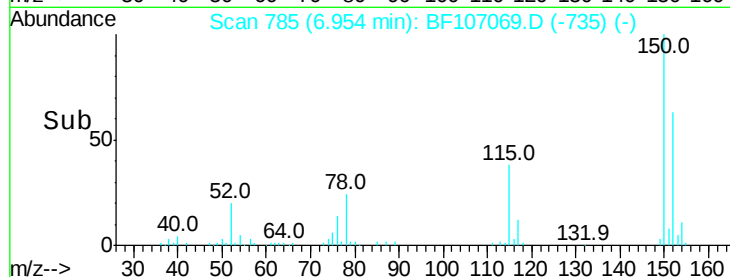
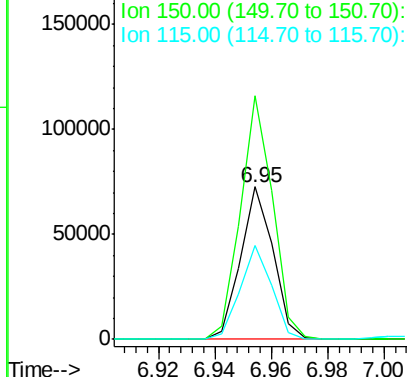
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.95 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF107069.D  
Acq: 3 Jul 2018 3:50

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 58012  
Ion Ratio Lower Upper  
152 100  
150 159.5 124.6 186.8  
115 61.3 50.1 75.1



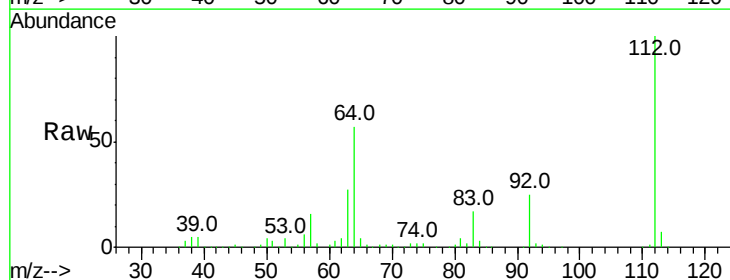
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



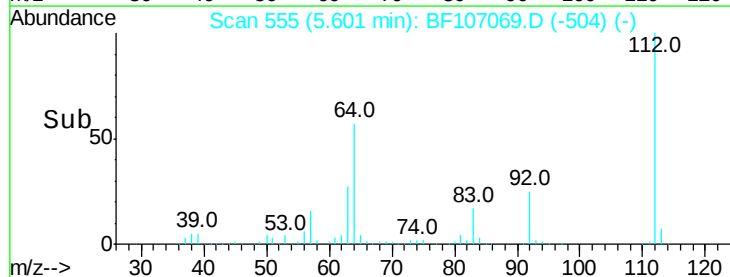
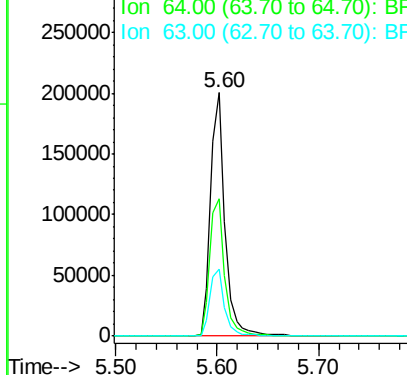
#5

2-Fluorophenol  
Concen: 58.318 ng  
RT: 5.60 min Scan# 555  
Delta R.T. 0.00 min  
Lab File: BF107069.D  
Acq: 3 Jul 2018 3:50

Tgt Ion:112 Resp: 199793  
Ion Ratio Lower Upper  
112 100  
64 56.5 47.9 71.9  
63 27.4 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 38.346 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

Instrument :

BNA\_F

ClientSampled :

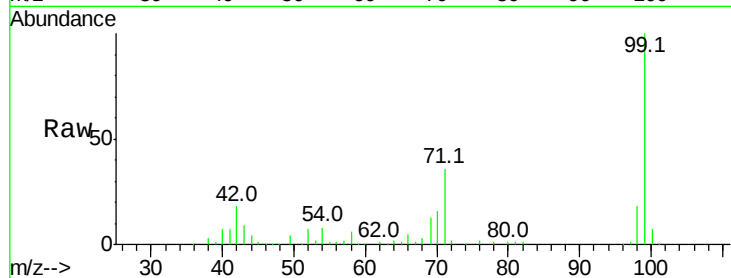
Tot Ion: 99 Resp: 164058

Ion Ratio Lower Upper

99 100

42 17.7 14.5 21.7

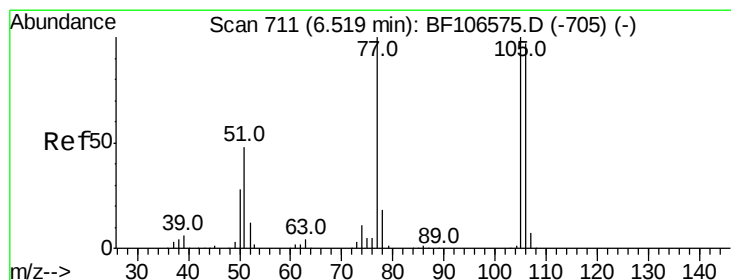
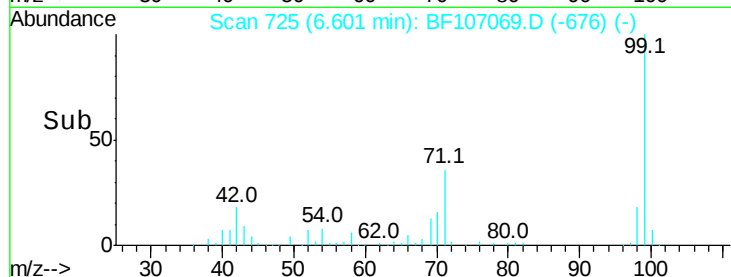
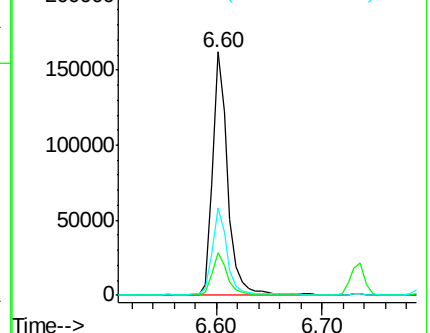
71 35.9 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#9

Benzaldehyde

Concen: 2.100 ng

RT: 6.74 min Scan# 748

Delta R.T. 0.22 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

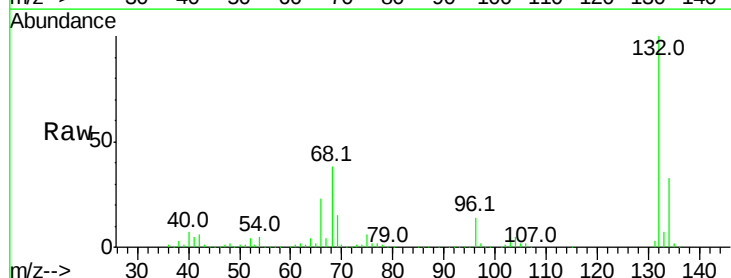
Tgt Ion: 77 Resp: 7536

Ion Ratio Lower Upper

77 100

105 78.4 81.1 121.1#

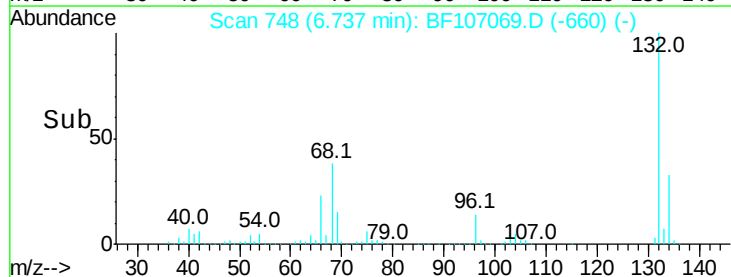
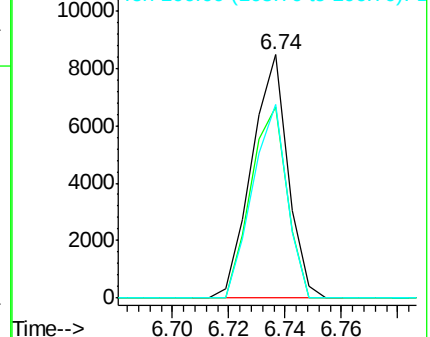
106 79.8 74.5 114.5

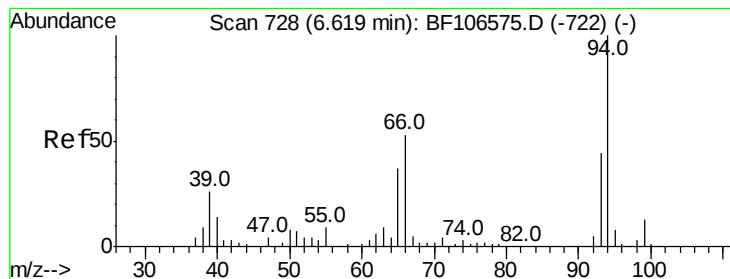


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): B

Ion 106.00 (105.70 to 106.70): B





#10

Phenol

Concen: 2.560 ng

RT: 6.62 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

Instrument :

BNA\_F

ClientSampleId :

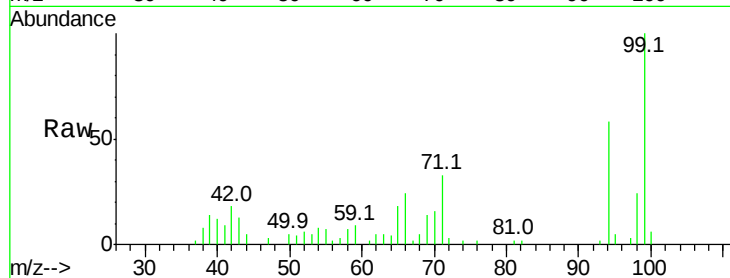
Tot Ion: 94 Resp: 12498

Ion Ratio Lower Upper

94 100

65 31.0 7.9 47.9

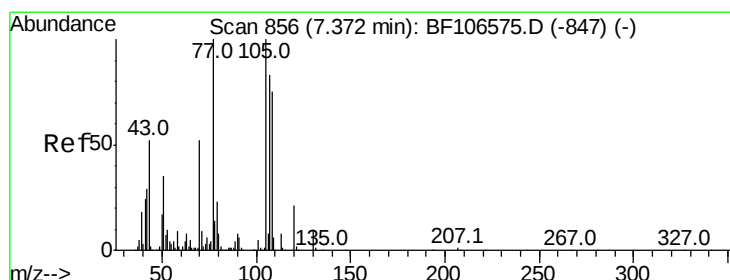
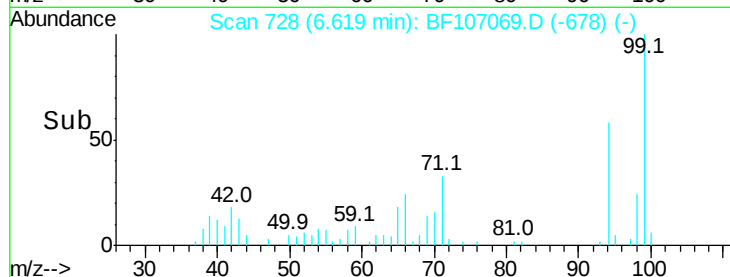
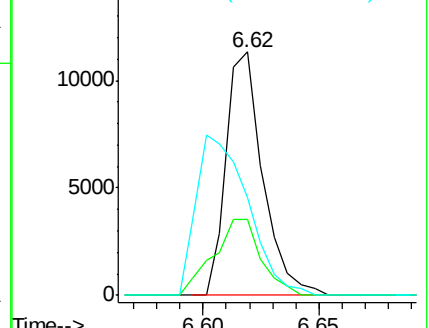
66 40.2 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 14.757 ng

RT: 7.52 min Scan# 882

Delta R.T. 0.14 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

Tgt Ion: 70 Resp: 41617

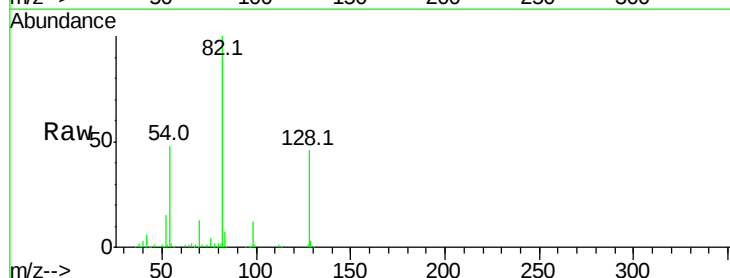
Ion Ratio Lower Upper

70 100

42 41.3 47.5 71.3#

101 0.0 7.4 11.2#

130 2.4 16.6 25.0#

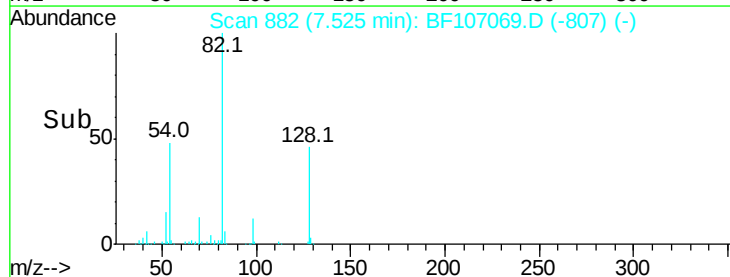
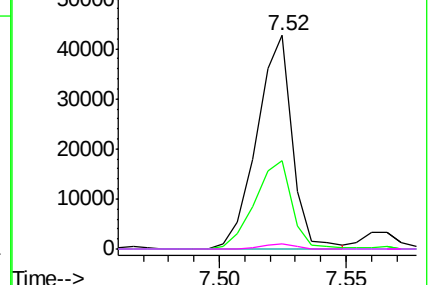


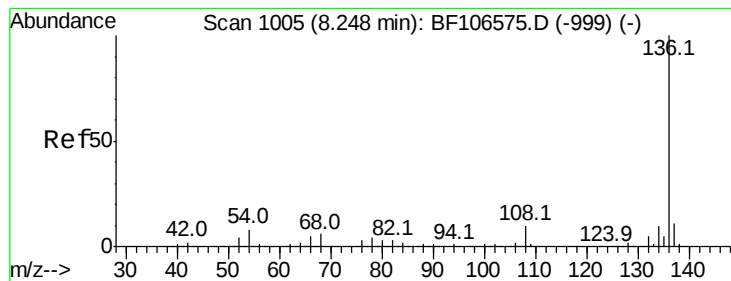
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1003

Delta R.T. -0.01 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 206684

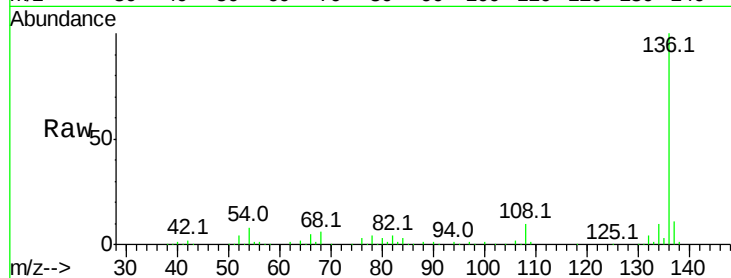
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 8.3 6.6 9.8

68 6.4 5.0 7.4

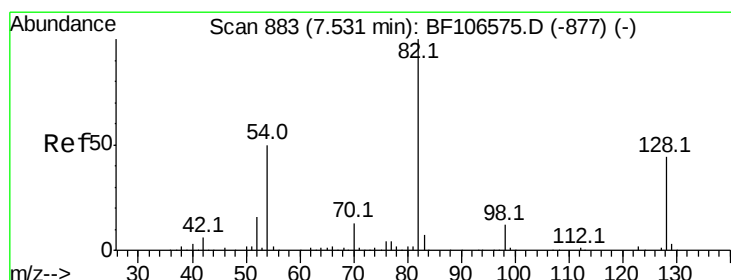
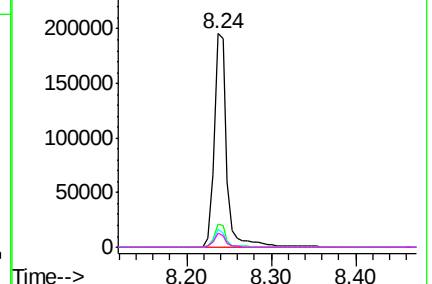
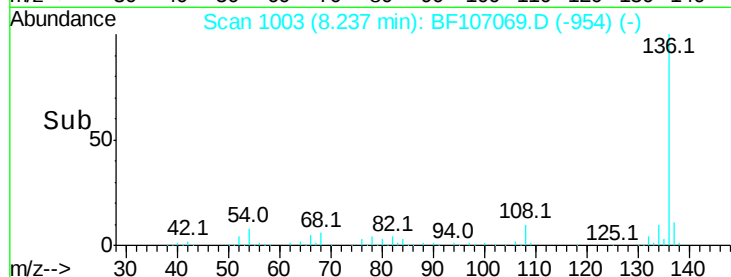


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 85.655 ng

RT: 7.52 min Scan# 882

Delta R.T. -0.01 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

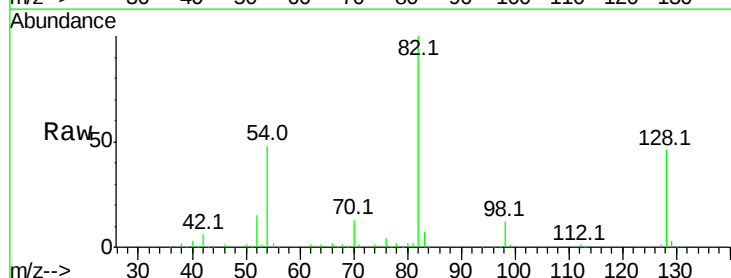
Tgt Ion: 82 Resp: 318561

Ion Ratio Lower Upper

82 100

128 45.9 36.1 54.1

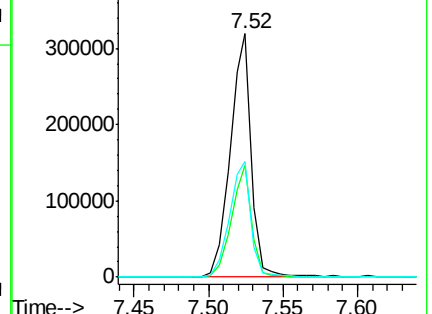
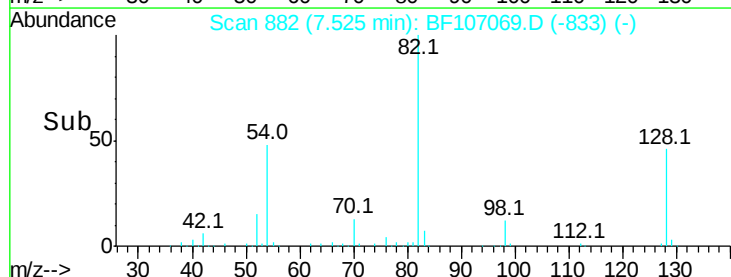
54 47.6 41.4 62.2

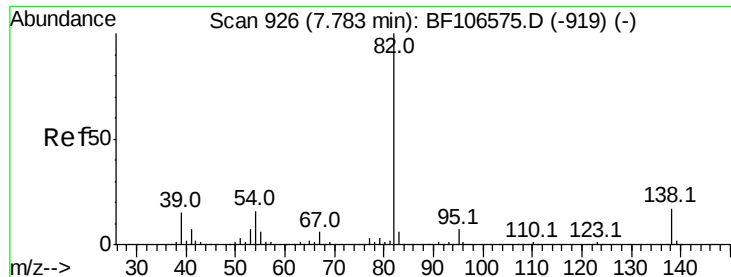


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 48.608 ng

RT: 7.52 min Scan# 882

Delta R.T. -0.26 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

Instrument :

BNA\_F

ClientSampled :

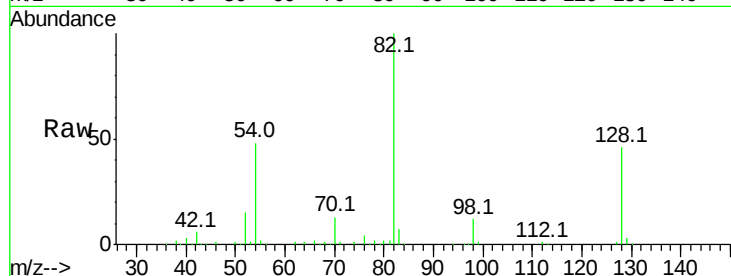
Tot Ion: 82 Resp: 318558

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

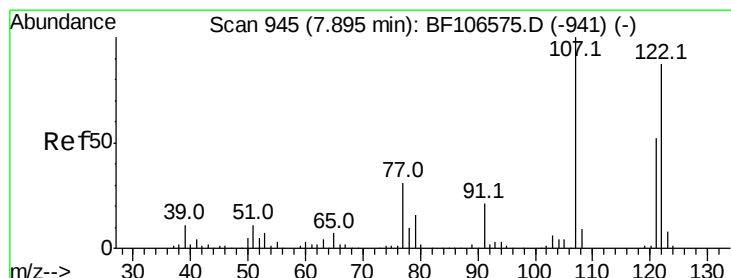
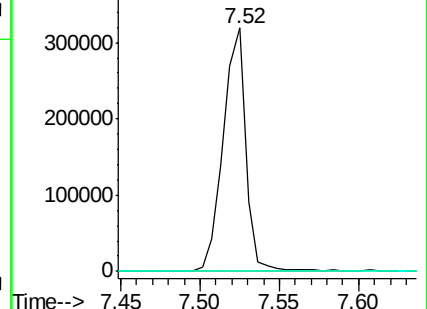
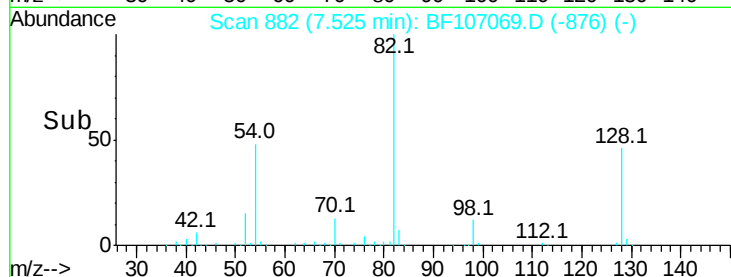
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#27

2,4-Dimethylphenol

Concen: 2.114 ng

RT: 7.91 min Scan# 947

Delta R.T. 0.01 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

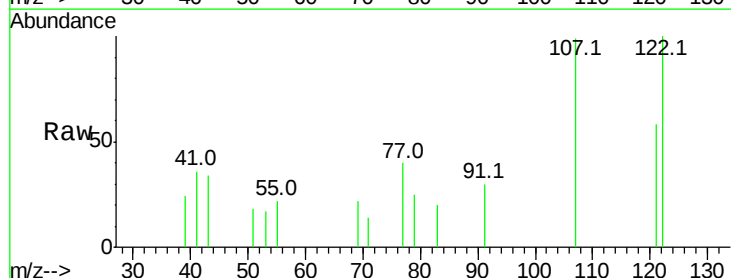
Tgt Ion:122 Resp: 5858

Ion Ratio Lower Upper

122 100

107 99.4 91.2 136.8

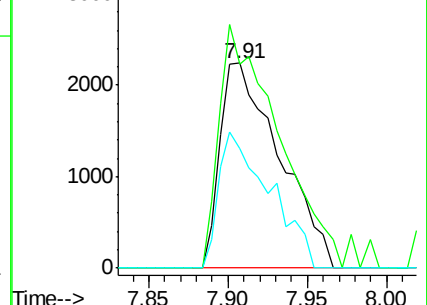
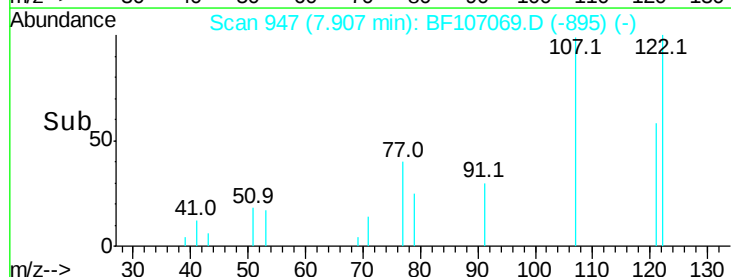
121 58.2 47.2 70.8

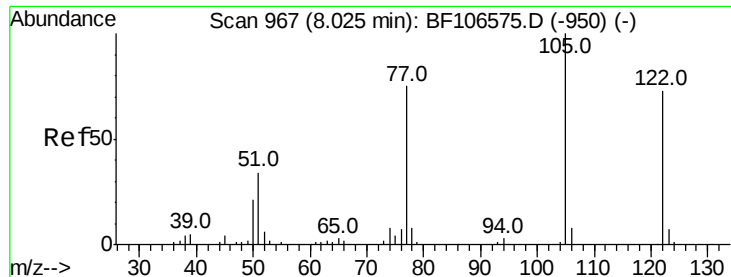


Abundance Ion 122.00 (121.70 to 122.70): BF1

Ion 107.00 (106.70 to 107.70): BF1

Ion 121.00 (120.70 to 121.70): BF1





#32

Benzoic acid

Concen: 8.291 ng

RT: 7.91 min Scan# 947

Delta R.T. -0.14 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

Instrument :

BNA\_F

ClientSampleId :

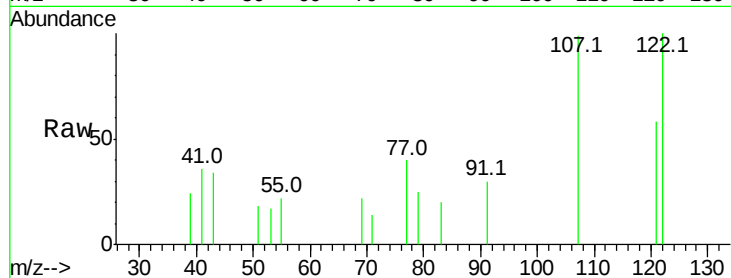
Tot Ion:122 Resp: 5858

Ion Ratio Lower Upper

122 100

105 0.0 101.1 141.1#

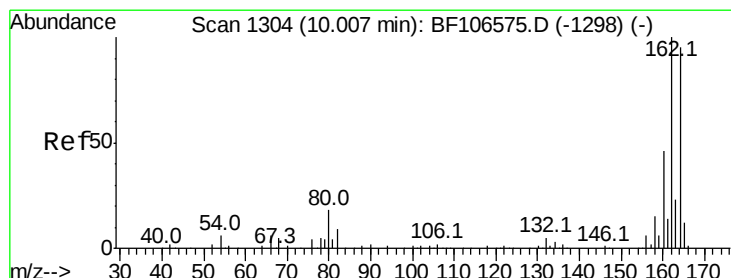
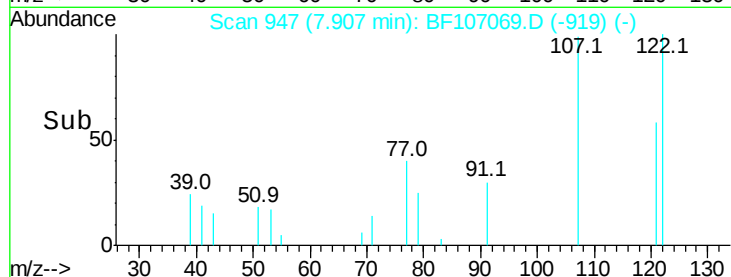
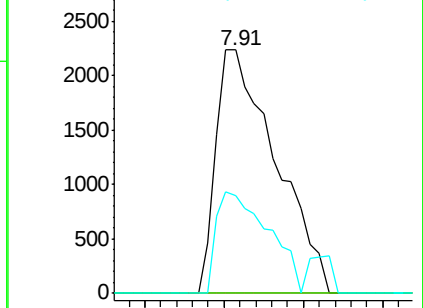
77 39.9 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.00 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

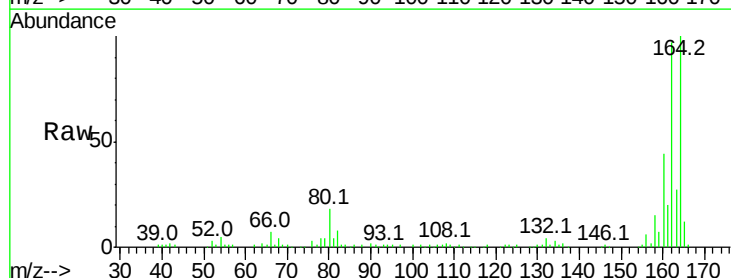
Tgt Ion:164 Resp: 91724

Ion Ratio Lower Upper

164 100

162 96.6 86.1 129.1

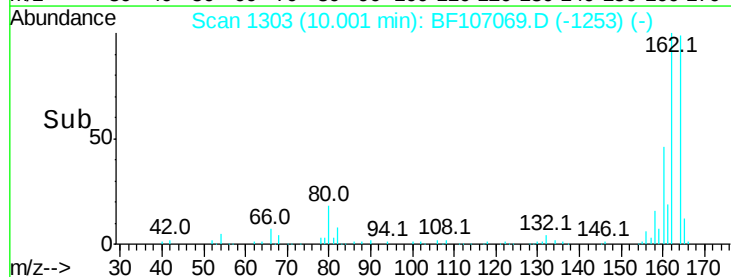
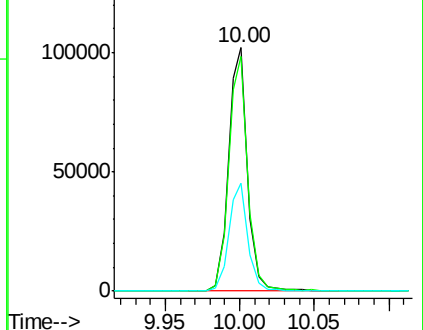
160 44.2 38.3 57.5

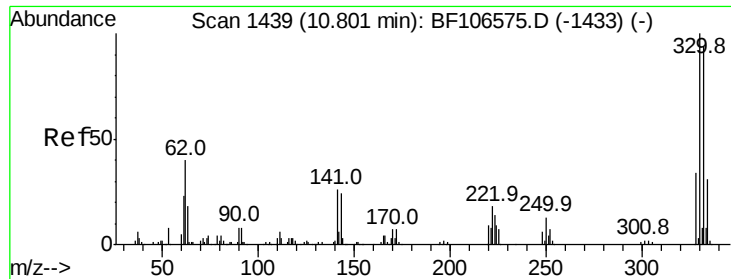


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

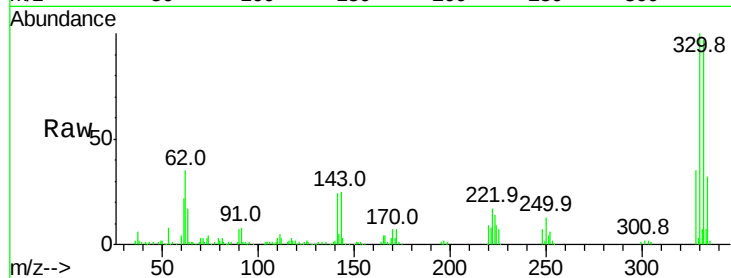




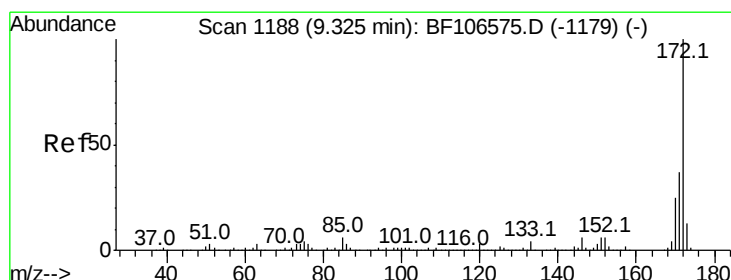
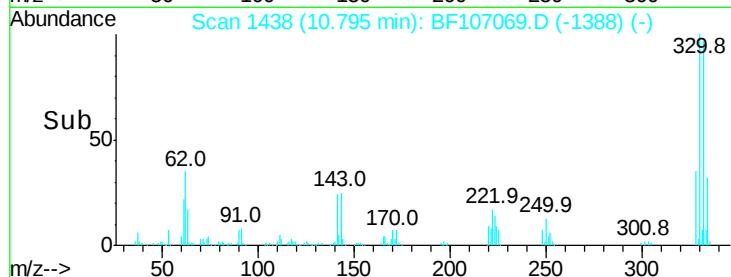
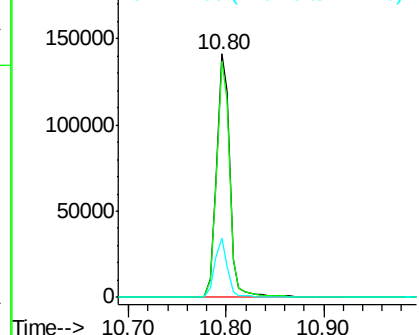
#41  
 2,4,6-Tribromophenol  
 Concen: 125.662 ng  
 RT: 10.80 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF107069.D  
 Acq: 3 Jul 2018 3:50

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 77.0  | 115.6 |
| 141     | 23.8  | 29.9  | 44.9# |

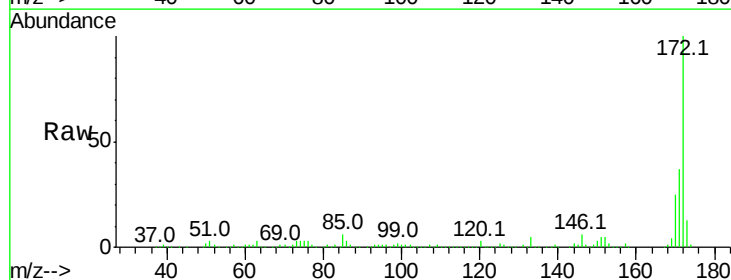


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

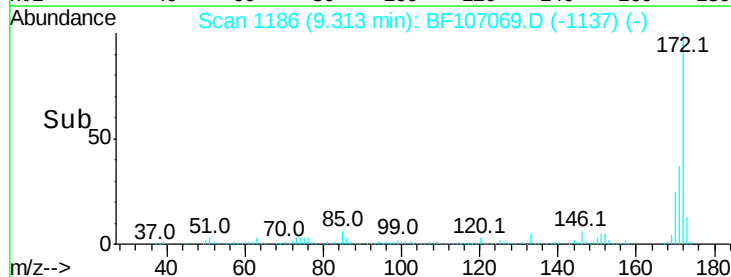
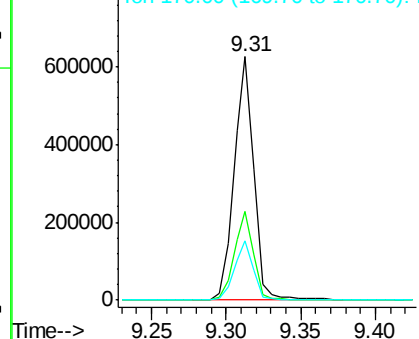


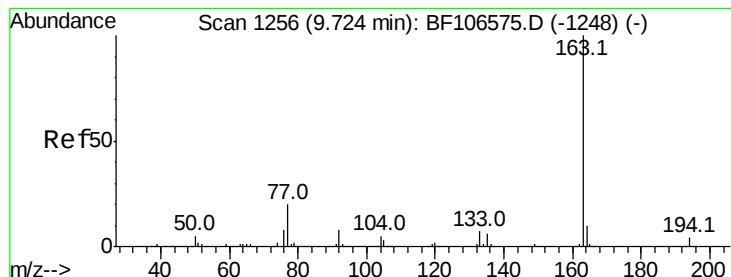
#44  
 2-Fluorobiphenyl  
 Concen: 112.161 ng  
 RT: 9.31 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF107069.D  
 Acq: 3 Jul 2018 3:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 29.7  | 44.5  |
| 170     | 24.6  | 19.6  | 29.4  |



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: 8.256 ng

RT: 9.70 min Scan# 1252

Delta R.T. -0.02 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

Instrument :

BNA\_F

ClientSampleId :

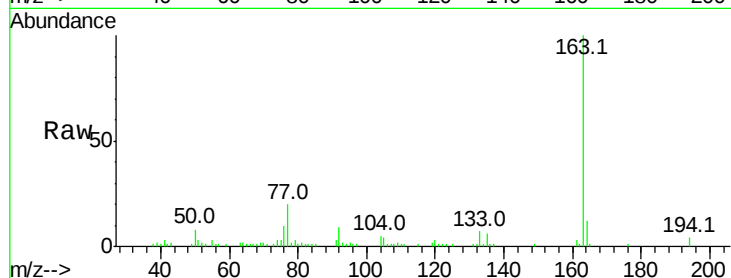
Tot Ion:163 Resp: 56795

Ion Ratio Lower Upper

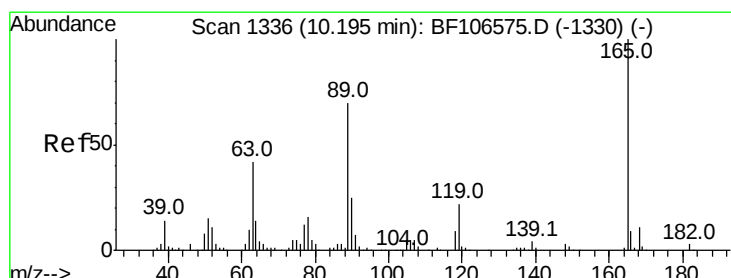
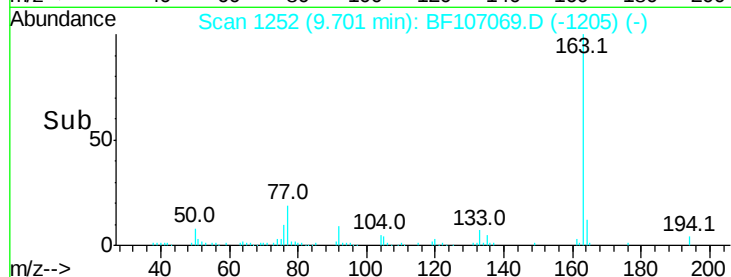
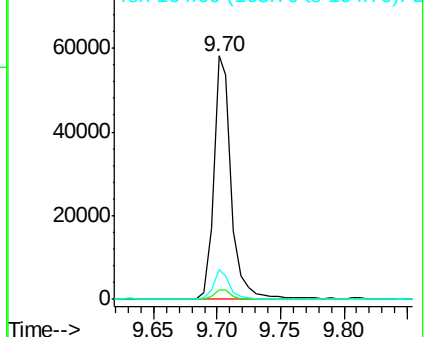
163 100

194 3.8 2.7 4.1

164 12.1 8.2 12.2



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: 6.105 ng

RT: 10.00 min Scan# 1303

Delta R.T. -0.20 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

Tgt Ion:165 Resp: 11609

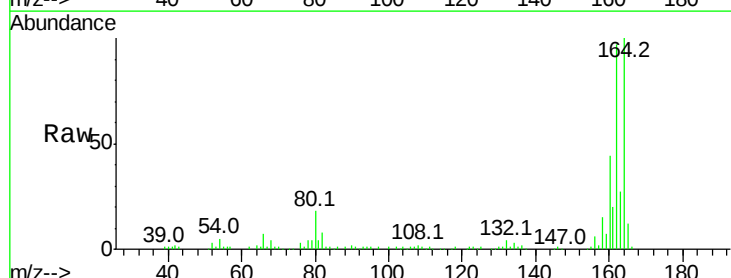
Ion Ratio Lower Upper

165 100

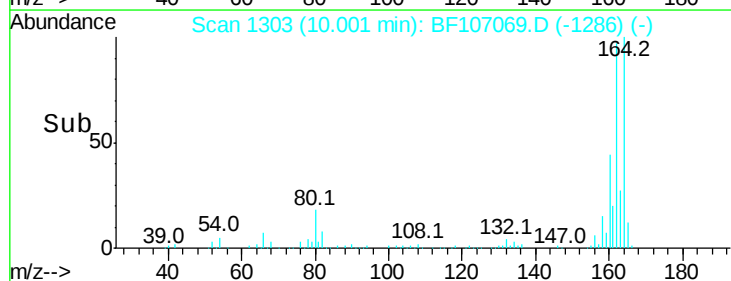
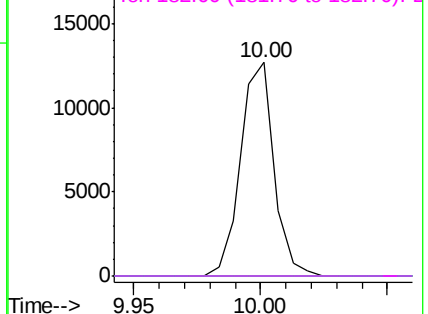
63 0.0 36.4 54.6#

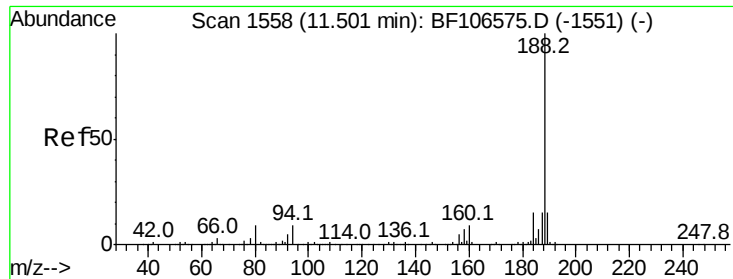
89 0.0 57.8 86.6#

182 0.0 1.6 2.4#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

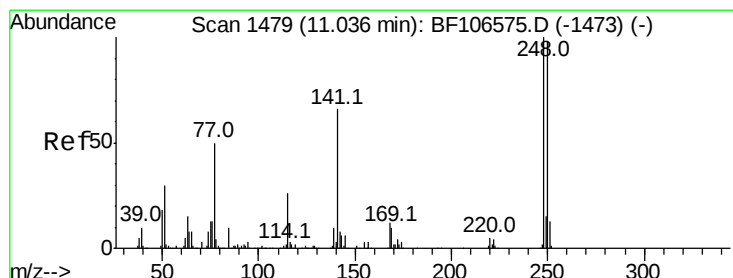
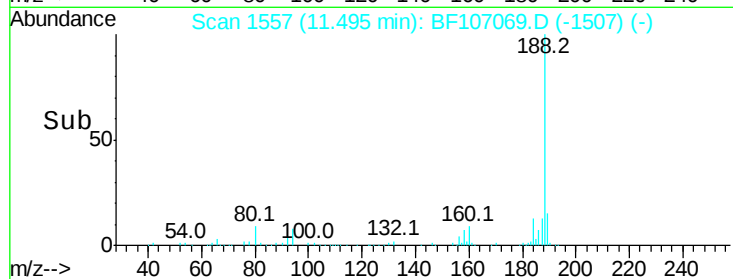
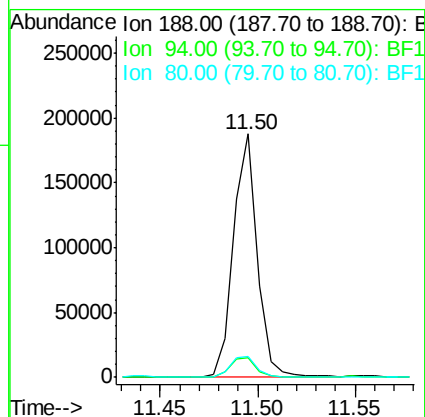
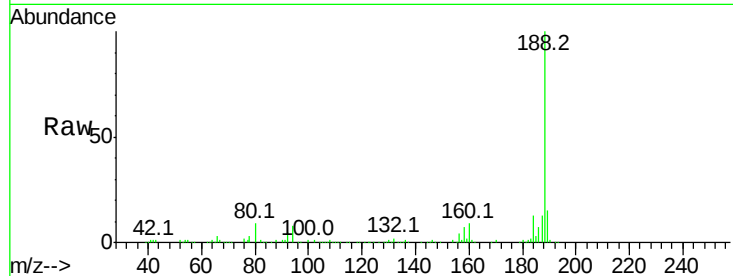




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.50 min Scan# 1557  
 Delta R.T. -0.01 min  
 Lab File: BF107069.D  
 Acq: 3 Jul 2018 3:50

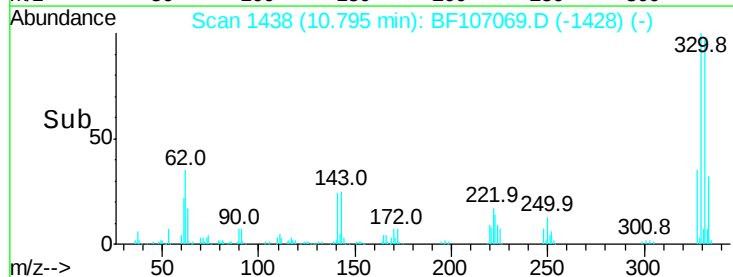
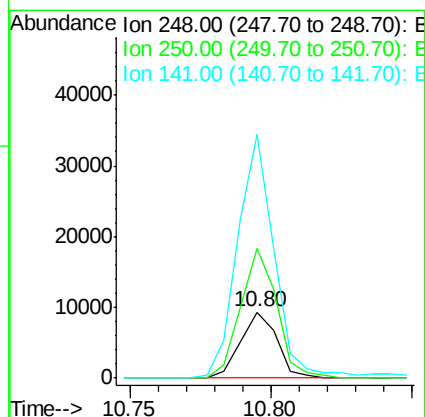
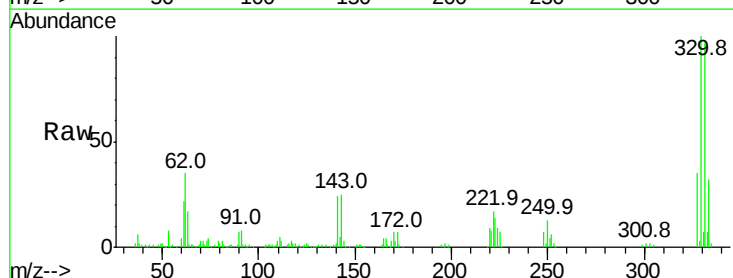
Instrument :  
 BNA\_F  
 ClientSampled :

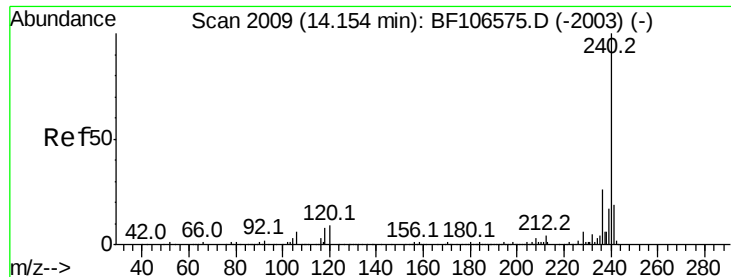
Tot Ion:188 Resp: 159111  
 Ion Ratio Lower Upper  
 188 100  
 94 8.0 8.5 12.7#  
 80 8.5 9.2 13.8#



#66  
 4-Bromophenyl-phenylether  
 Concen: 4.363 ng  
 RT: 10.80 min Scan# 1438  
 Delta R.T. -0.24 min  
 Lab File: BF107069.D  
 Acq: 3 Jul 2018 3:50

Tgt Ion:248 Resp: 8285  
 Ion Ratio Lower Upper  
 248 100  
 250 197.4 76.9 115.3#  
 141 370.5 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2008

Delta R.T. -0.02 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

Instrument :

BNA\_F

ClientSampleId :

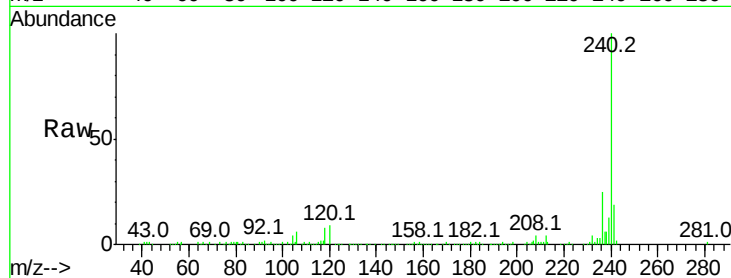
Tot Ion:240 Resp: 148087

Ion Ratio Lower Upper

240 100

120 9.0 9.5 14.3#

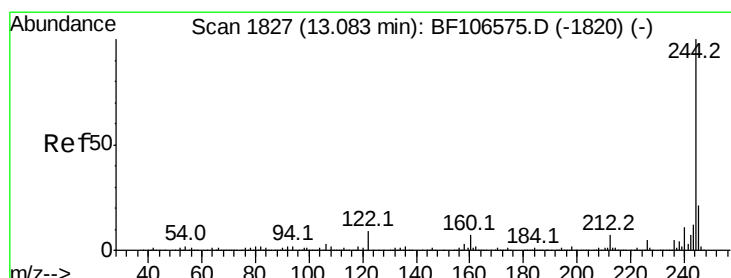
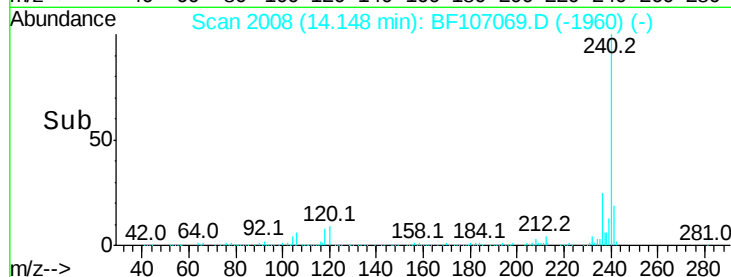
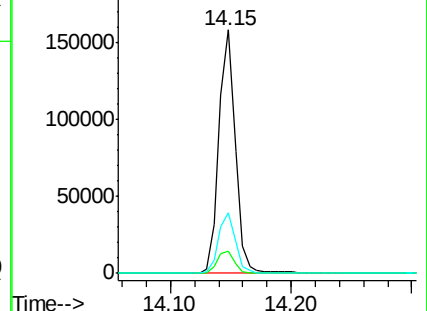
236 25.1 20.7 31.1



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: 100.851 ng

RT: 13.08 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF107069.D

Acq: 3 Jul 2018 3:50

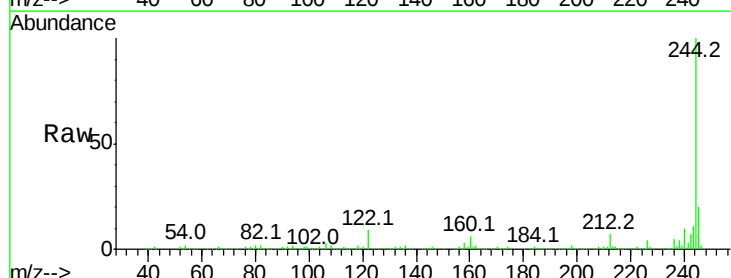
Tgt Ion:244 Resp: 616552

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

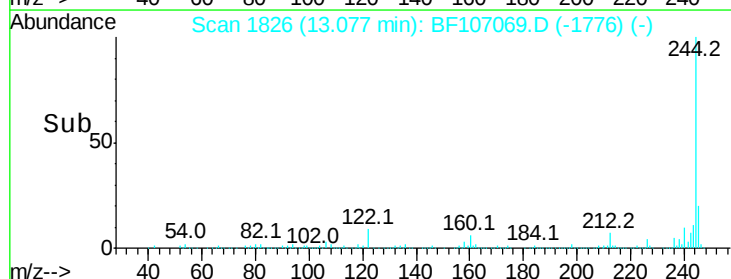
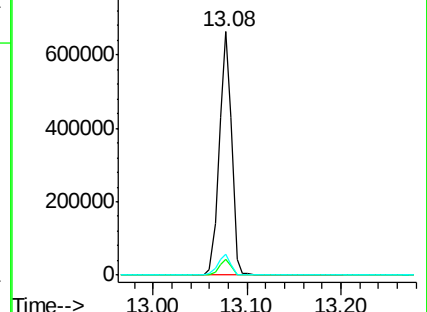
122 8.8 11.0 16.4#

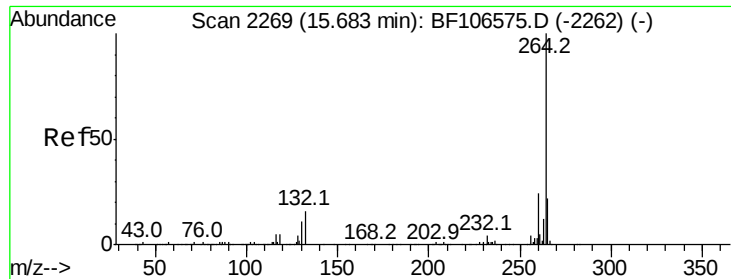


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.69 min Scan# 2270  
Delta R.T. -0.03 min  
Lab File: BF107069.D  
Acq: 3 Jul 2018 3:50

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.0  | 19.2  | 28.8  |
| 265     | 21.0  | 17.5  | 26.3  |

