

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080318\  
 Data File : BF107953.D  
 Acq On : 3 Aug 2018 22:16  
 Operator : JU/SJ  
 Sample : J4300-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 03 23:01:06 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 30 17:48:53 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.96  | 152  | 98330    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.24  | 136  | 432457   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.99  | 164  | 177164   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.49 | 188  | 311762   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 14.14 | 240  | 312565   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.67 | 264  | 299993   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 637409   | 110.17 | ng    | 0.00     |
| 7) Phenol-d6                | 6.60  | 99   | 907057   | 118.96 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 557630   | 74.29  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.79 | 330  | 211452   | 87.84  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 1131849  | 89.03  | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.07 | 244  | 990735   | 68.73  | ng    | -0.01    |

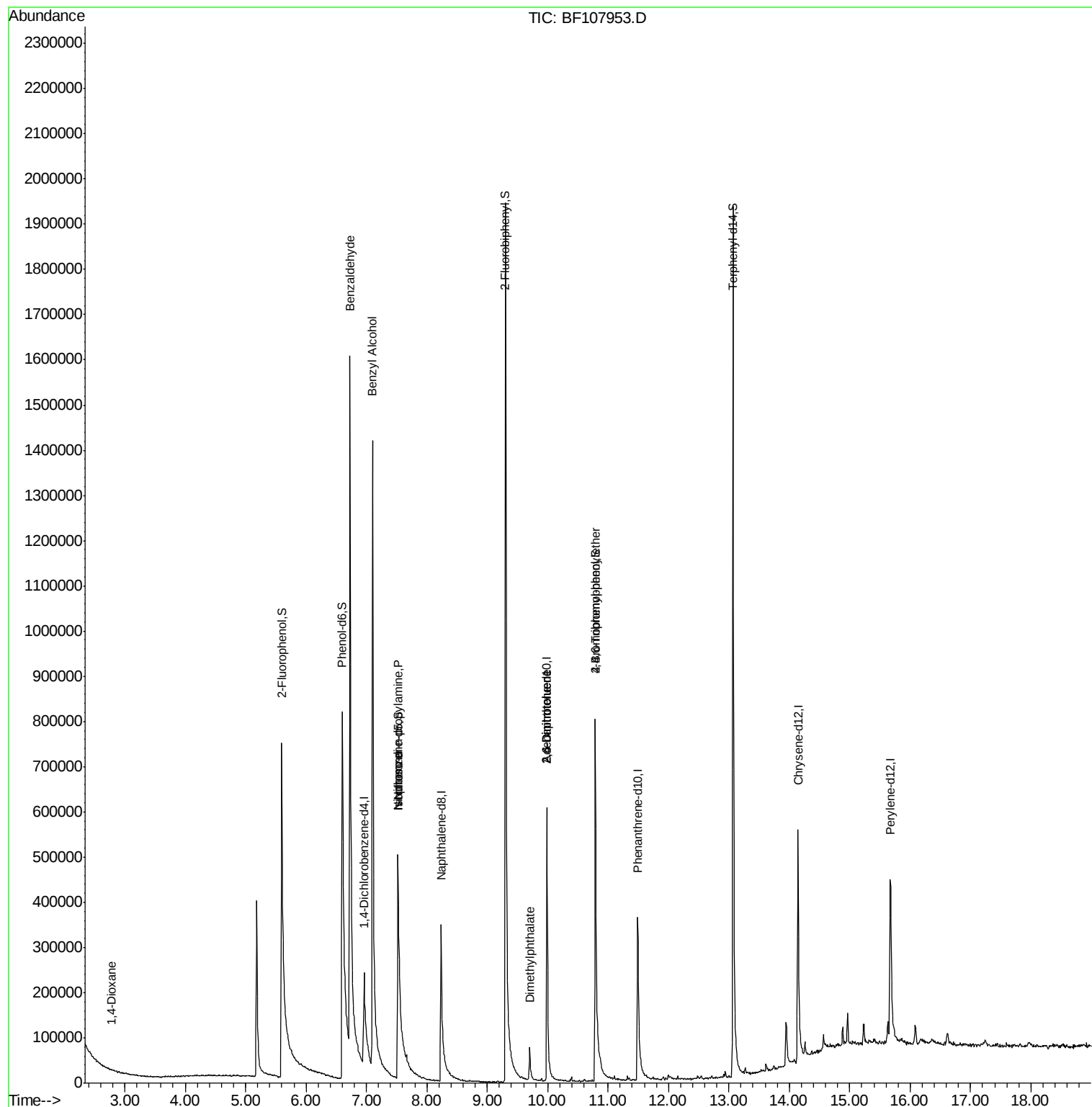
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 2.78  | 88   | 477      | 5.948  | ng    | # 20   |
| 9) Benzaldehyde                | 6.72  | 77   | 14869    | 3.232  | ng    | # 82   |
| 15) Benzyl Alcohol             | 7.10  | 79   | 9849     | 2.078  | ng    | # 38   |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 61532    | 12.721 | ng    | # 85   |
| 25) Isophorone                 | 7.52  | 82   | 576494   | 46.786 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.70  | 163  | 54108    | 4.067  | ng    | # 98   |
| 50) 2,6-Dinitrotoluene         | 9.99  | 165  | 20921    | 7.235  | ng    | # 25   |
| 56) 2,4-Dinitrotoluene         | 9.99  | 165  | 21512    | 5.660  | ng    | # 23   |
| 66) 4-Bromophenyl-phenylether  | 10.79 | 248  | 11782    | 3.242  | ng    | # 1    |

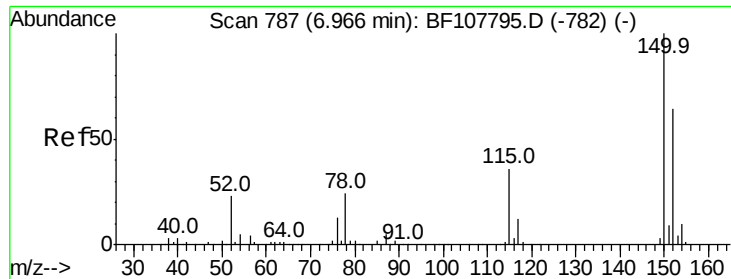
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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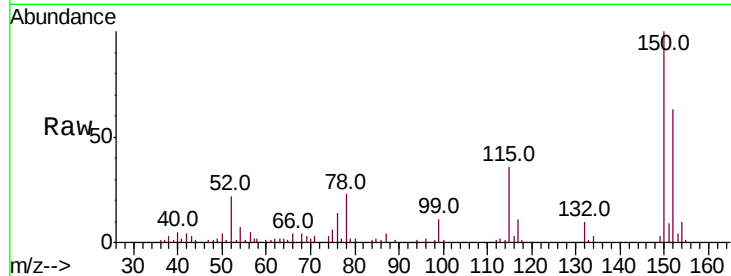


#1

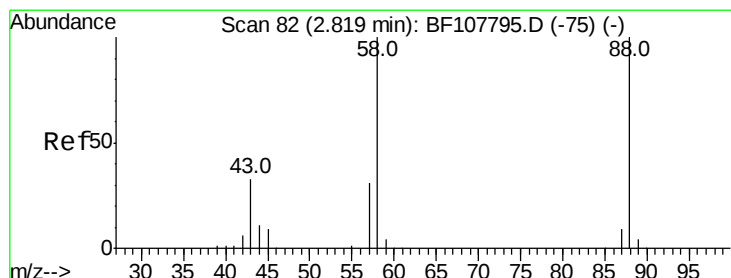
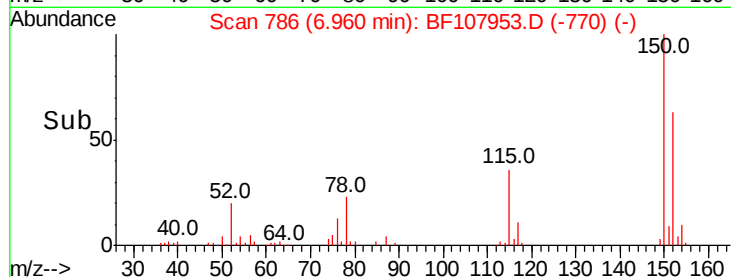
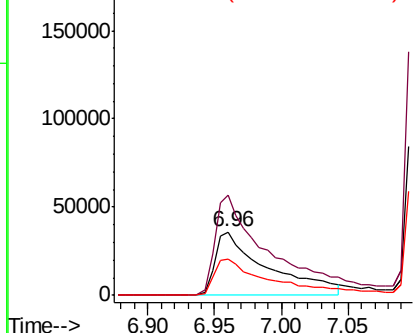
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 786  
Delta R.T. -0.01 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 98330  
Ion Ratio Lower Upper  
152 100  
150 157.5 124.6 186.8  
115 57.2 50.1 75.1



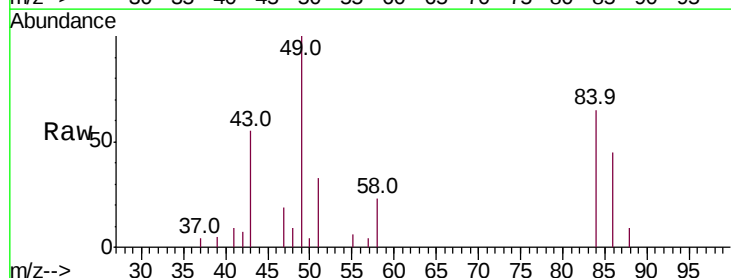
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



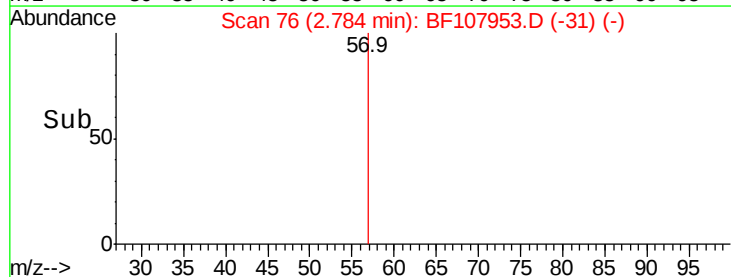
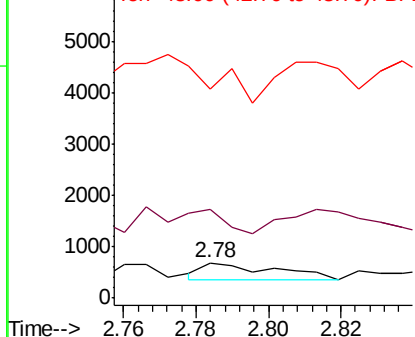
#2

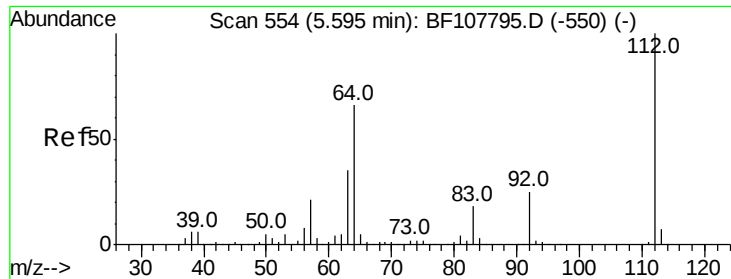
1,4-Dioxane  
Concen: 5.948 ng  
RT: 2.78 min Scan# 76  
Delta R.T. -0.04 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

Tgt Ion: 88 Resp: 477  
Ion Ratio Lower Upper  
88 100  
58 0.0 62.6 93.8#  
43 0.0 24.6 37.0#



Abundance Ion 88.00 (87.70 to 88.70): BF1  
Ion 58.00 (57.70 to 58.70): BF1  
Ion 43.00 (42.70 to 43.70): BF1





#5

2-Fluorophenol

Concen: 110.170 ng

RT: 5.60 min Scan# 554

Delta R.T. 0.00 min

Lab File: BF107953.D

Acq: 3 Aug 2018 22:16

Instrument :

BNA\_F

ClientSampled :

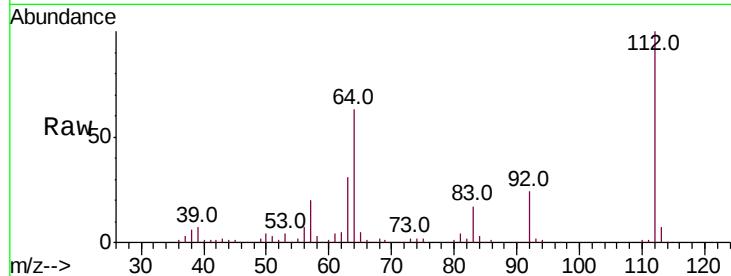
Tot Ion:112 Resp: 637409

Ion Ratio Lower Upper

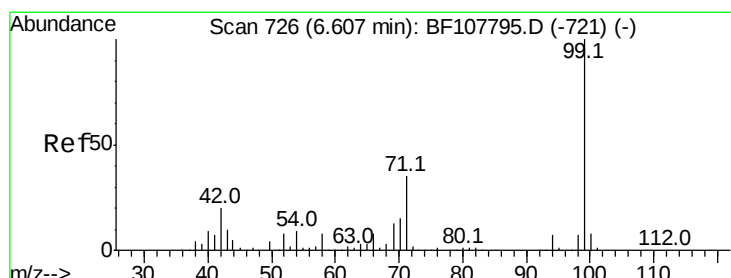
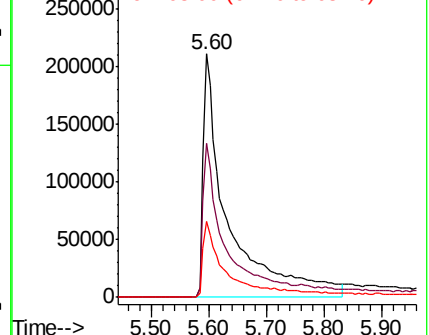
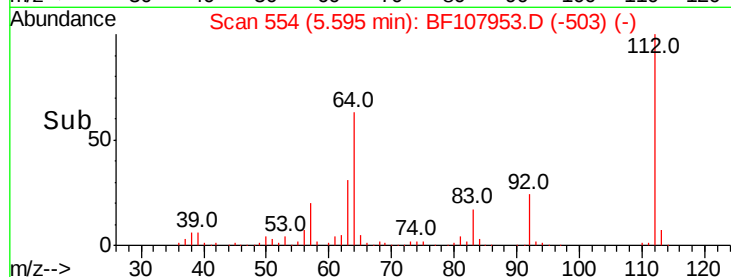
112 100

64 63.3 47.9 71.9

63 31.4 23.7 35.5



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



#7

Phenol-d6

Concen: 118.956 ng

RT: 6.60 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF107953.D

Acq: 3 Aug 2018 22:16

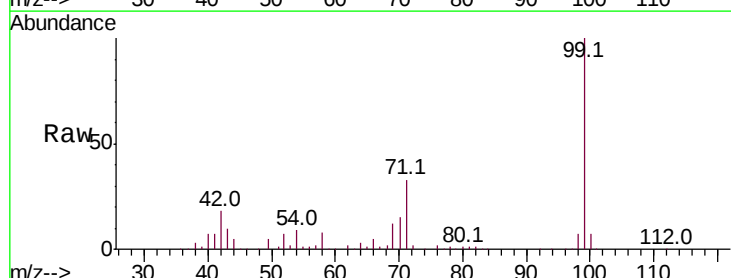
Tgt Ion: 99 Resp: 907057

Ion Ratio Lower Upper

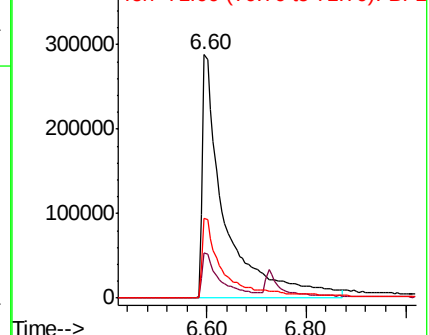
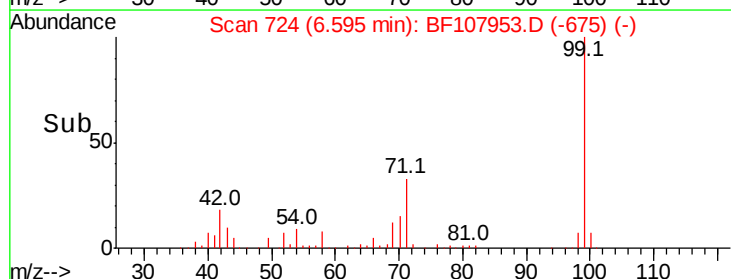
99 100

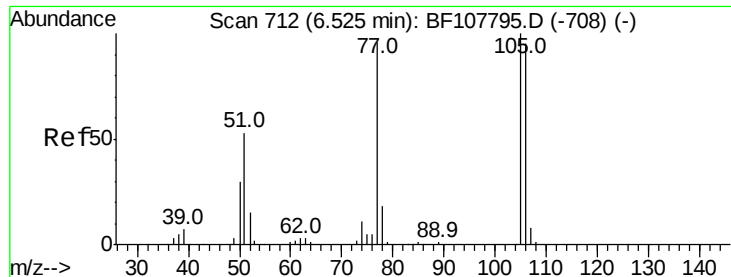
42 18.4 14.5 21.7

71 32.7 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

Benzaldehyd

Concen: 3.232 ng

RT: 6.72 min Scan# 746

Delta R.T. 0.20 min

Lab File: BF107953.D

Acq: 3 Aug 2018 22:16

Instrument :

BNA\_F

ClientSampleId :

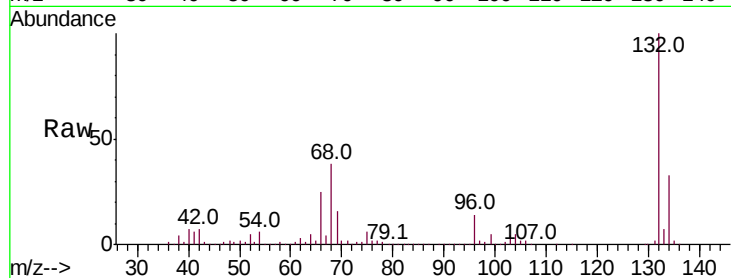
Tot Ion: 77 Resp: 14869

Ion Ratio Lower Upper

77 100

105 80.1 81.1 121.1#

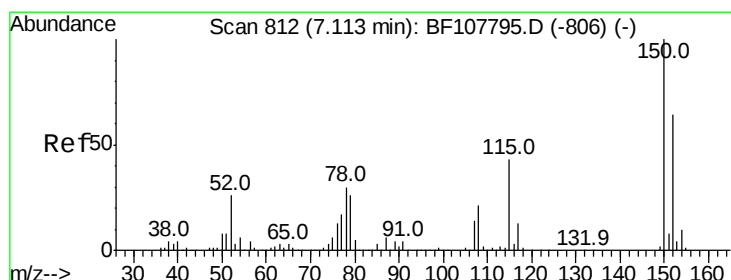
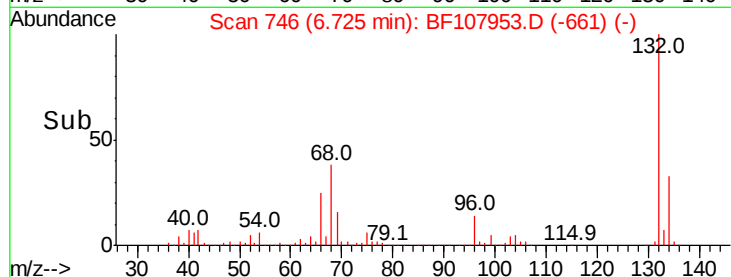
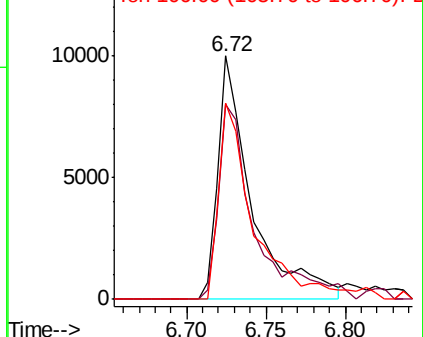
106 80.7 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E



#15

Benzyl Alcohol

Concen: 2.078 ng

RT: 7.10 min Scan# 810

Delta R.T. -0.01 min

Lab File: BF107953.D

Acq: 3 Aug 2018 22:16

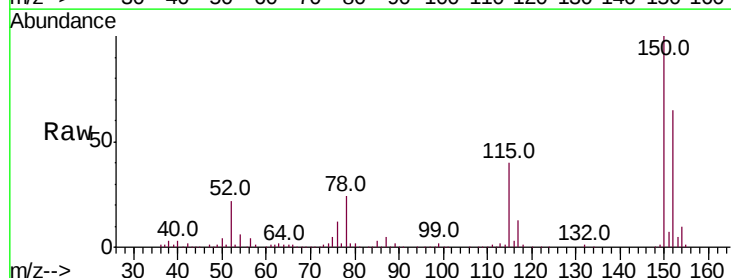
Tgt Ion: 79 Resp: 9849

Ion Ratio Lower Upper

79 100

108 27.2 65.1 97.7#

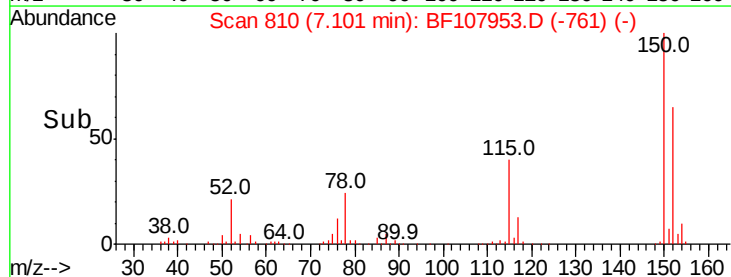
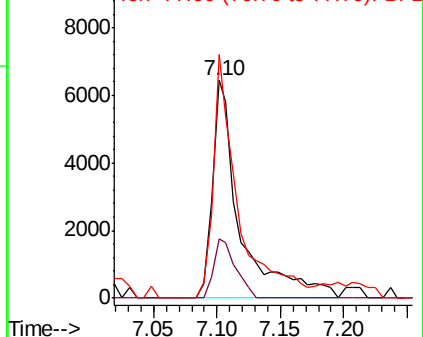
77 111.8 50.6 75.8#

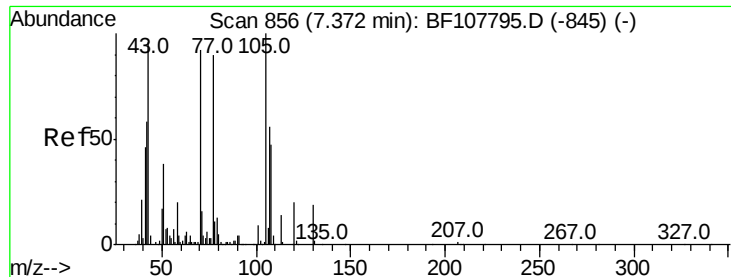


Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

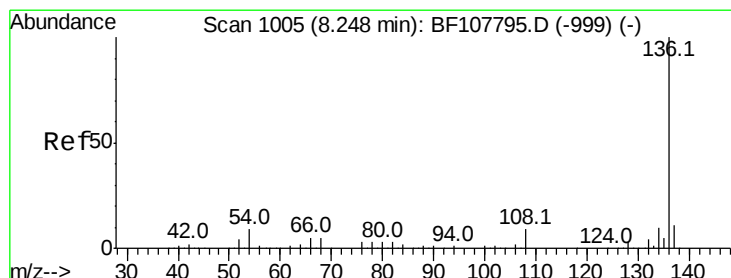
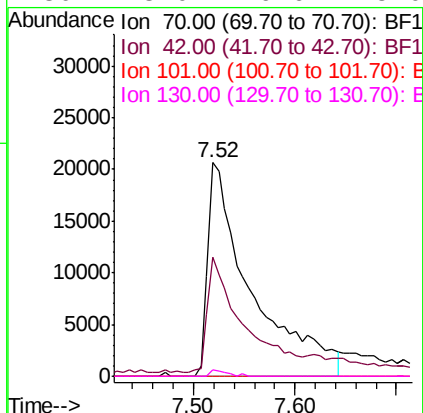
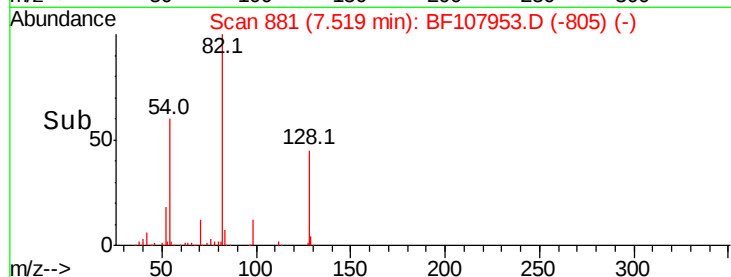
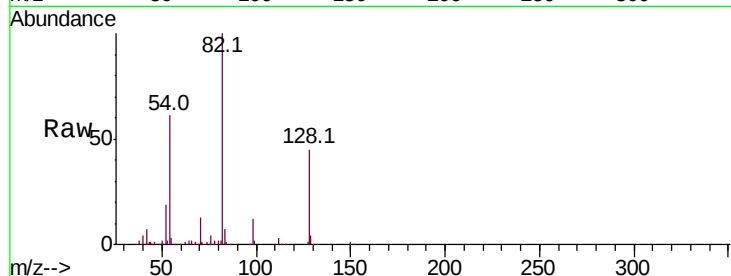




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.721 ng  
RT: 7.52 min Scan# 881  
Delta R.T. 0.15 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

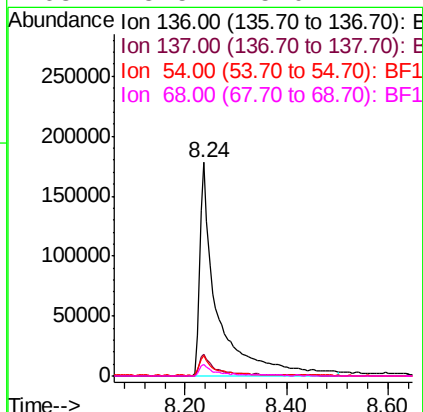
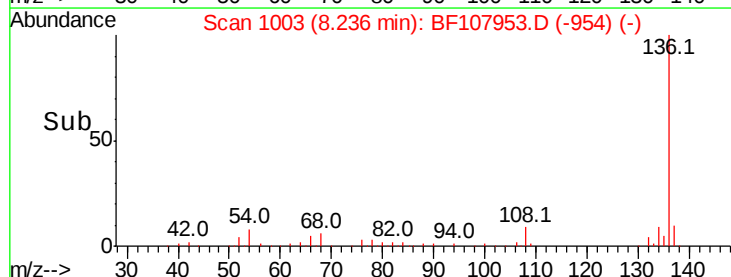
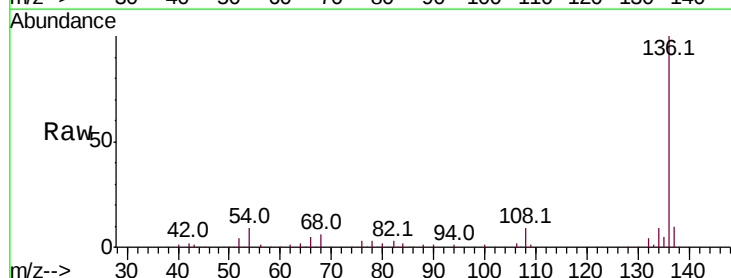
Instrument :  
BNA\_F  
ClientSampleId :

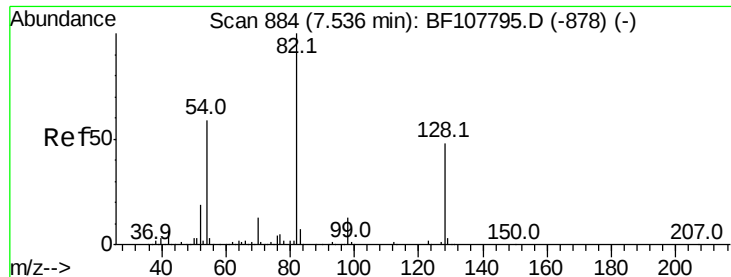
Tot Ion: 70 Resp: 61532  
Ion Ratio Lower Upper  
70 100  
42 55.7 47.5 71.3  
101 0.0 7.4 11.2#  
130 3.0 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.24 min Scan# 1003  
Delta R.T. -0.01 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

Tgt Ion: 136 Resp: 432457  
Ion Ratio Lower Upper  
136 100  
137 10.0 8.9 13.3  
54 9.3 6.6 9.8  
68 5.5 5.0 7.4

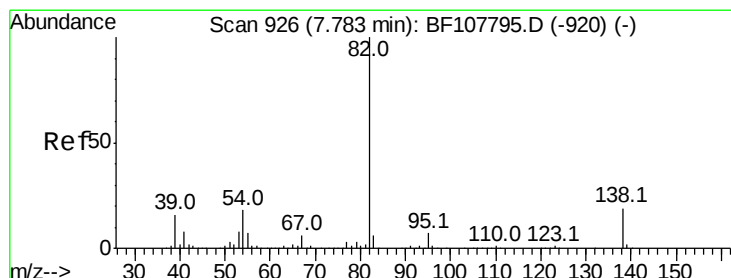
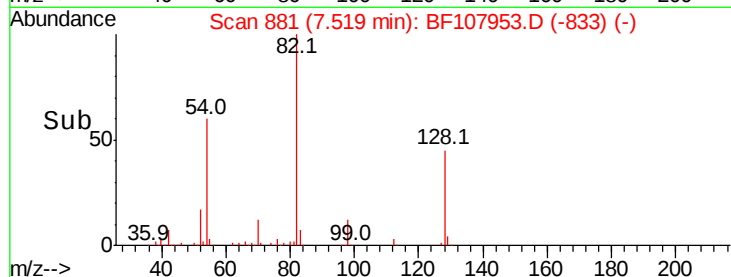
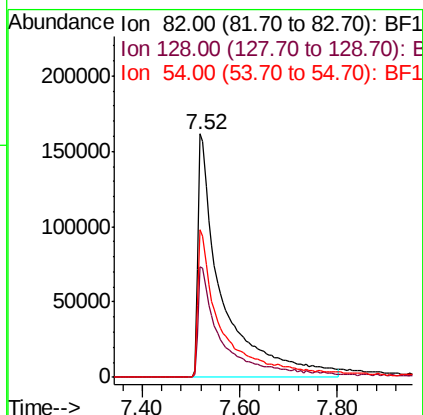
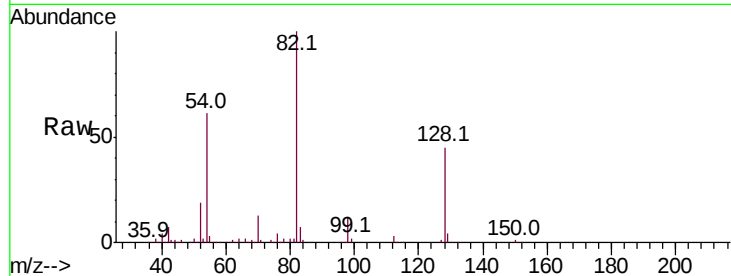




#23  
Nitrobenzene-d5  
Concen: 74.285 ng  
RT: 7.52 min Scan# 881  
Delta R.T. -0.02 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

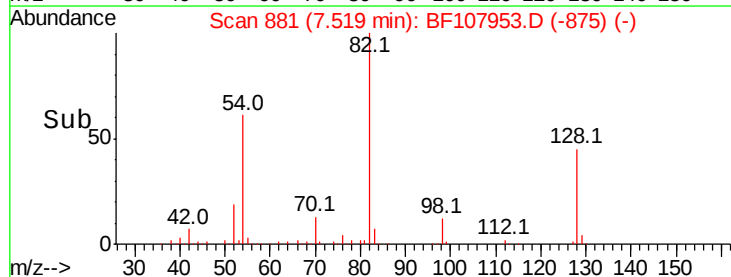
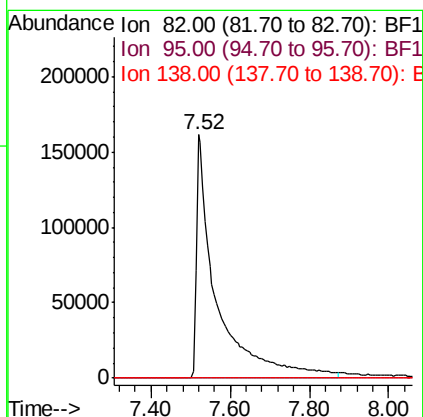
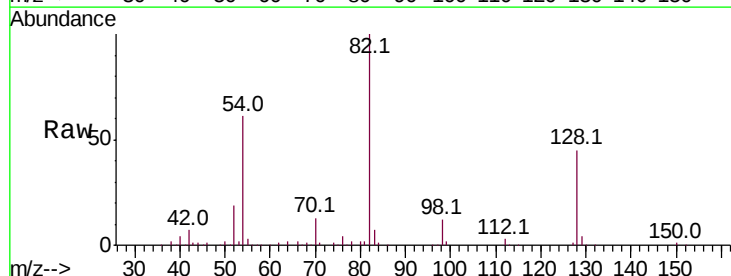
Instrument :  
BNA\_F  
ClientSampleId :

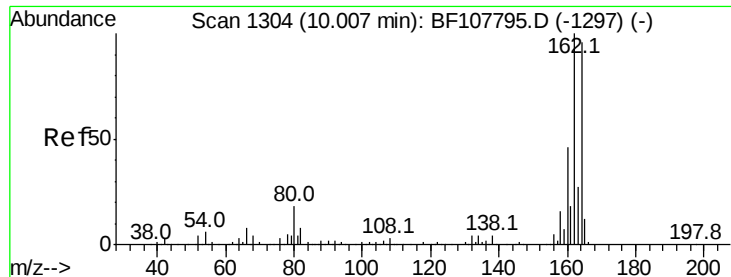
Tot Ion: 82 Resp: 557630  
Ion Ratio Lower Upper  
82 100  
128 45.2 36.1 54.1  
54 60.6 41.4 62.2



#25  
Isophorone  
Concen: 46.786 ng  
RT: 7.52 min Scan# 881  
Delta R.T. -0.26 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

Tgt Ion: 82 Resp: 576494  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#

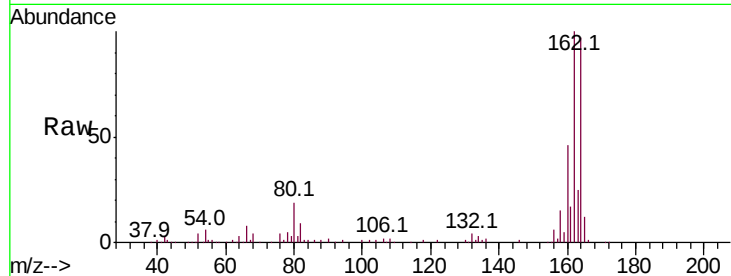




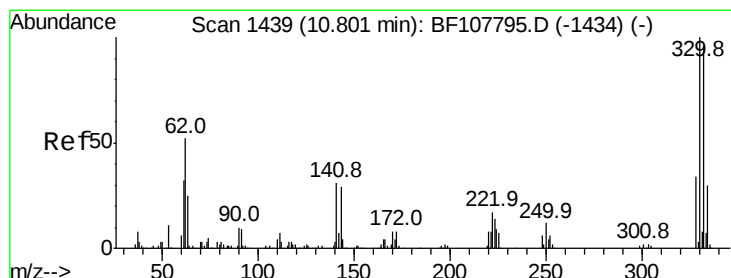
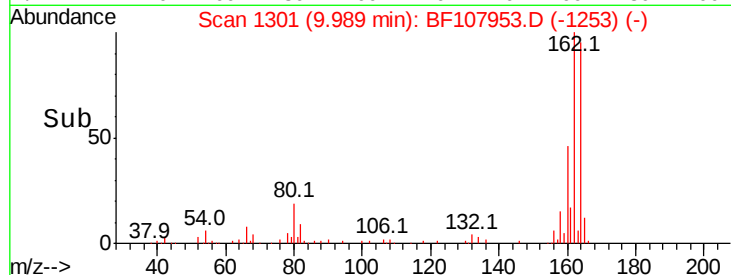
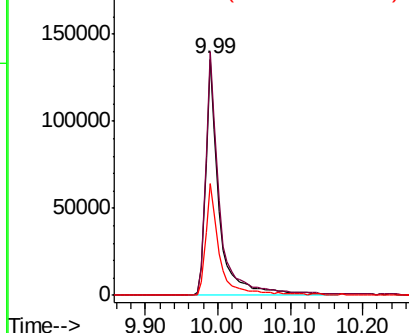
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.99 min Scan# 1301  
 Delta R.T. -0.02 min  
 Lab File: BF107953.D  
 Acq: 3 Aug 2018 22:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 177164  
 Ion Ratio Lower Upper  
 164 100  
 162 103.0 86.1 129.1  
 160 47.3 38.3 57.5

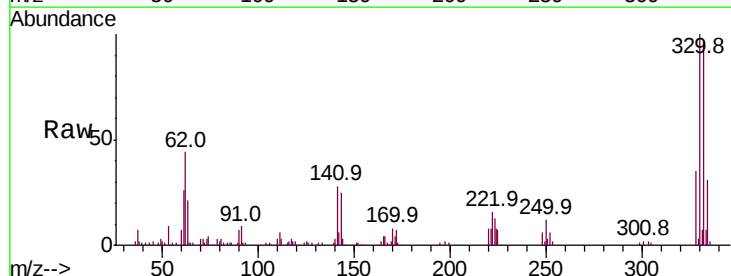


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

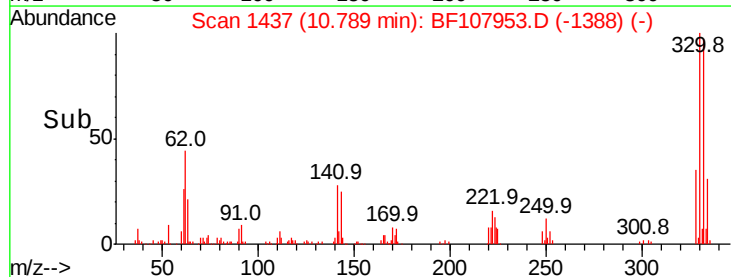
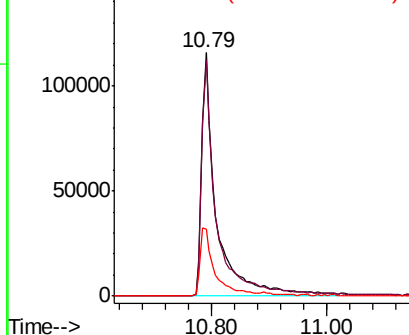


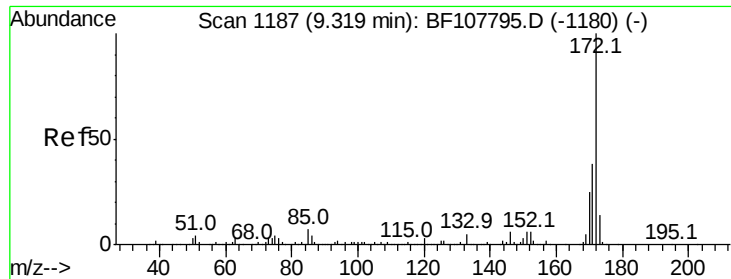
#41  
 2,4,6-Tribromophenol  
 Concen: 87.838 ng  
 RT: 10.79 min Scan# 1437  
 Delta R.T. -0.01 min  
 Lab File: BF107953.D  
 Acq: 3 Aug 2018 22:16

Tgt Ion:330 Resp: 211452  
 Ion Ratio Lower Upper  
 330 100  
 332 95.4 77.0 115.6  
 141 27.2 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

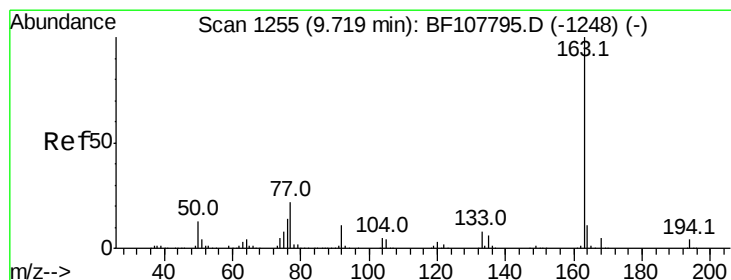
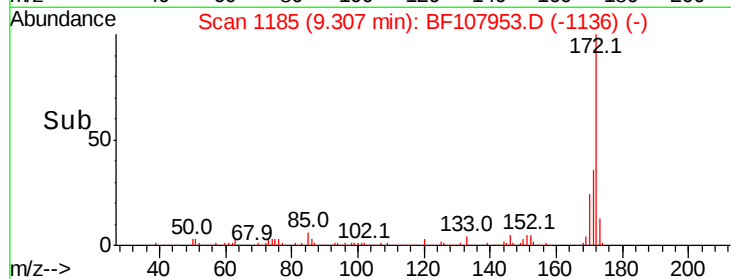
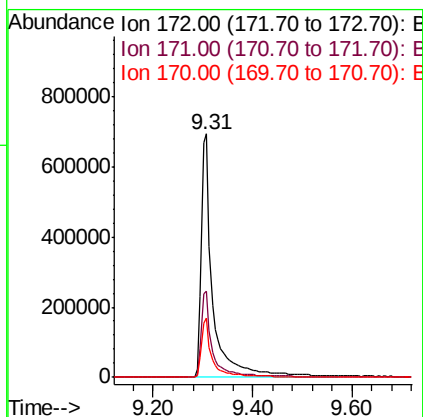
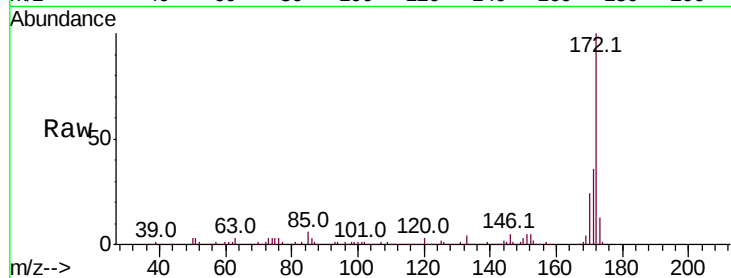




#44  
2-Fluorobiphenyl  
Concen: 89.026 ng  
RT: 9.31 min Scan# 1185  
Delta R.T. -0.01 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

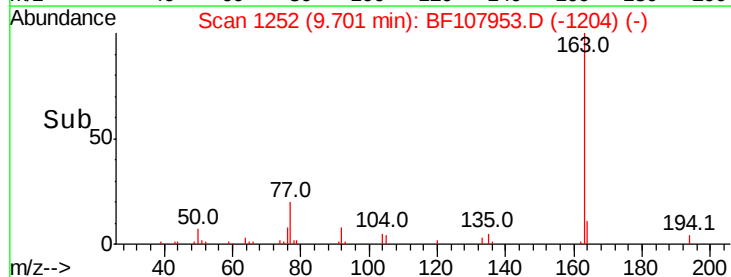
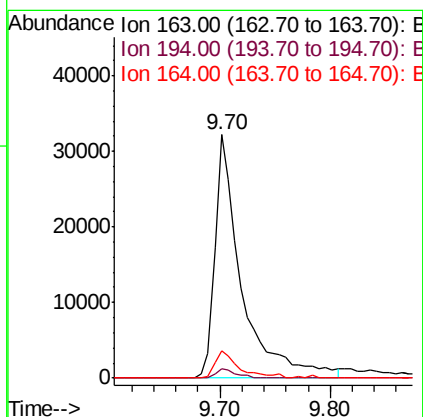
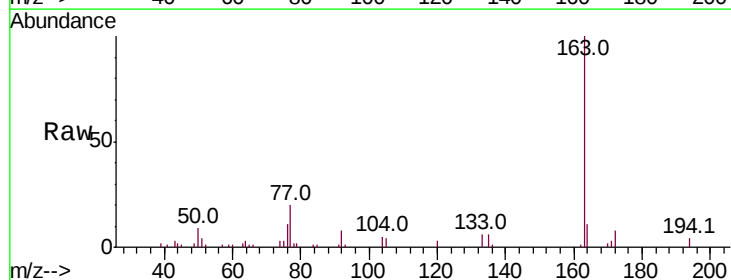
Instrument :  
BNA\_F  
ClientSampled :

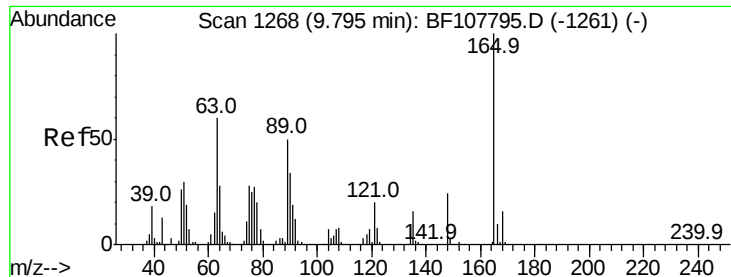
Tot Ion:172 Resp: 1131849  
Ion Ratio Lower Upper  
172 100  
171 35.7 29.7 44.5  
170 24.2 19.6 29.4



#49  
Dimethylphthalate  
Concen: 4.067 ng  
RT: 9.70 min Scan# 1252  
Delta R.T. -0.02 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

Tgt Ion:163 Resp: 54108  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.7 4.1  
164 11.0 8.2 12.2

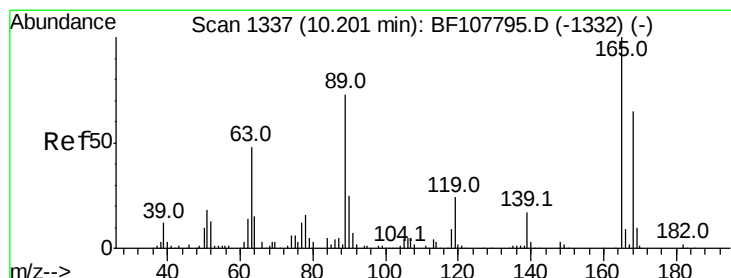
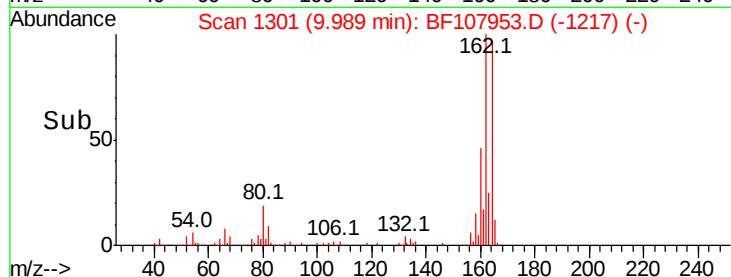
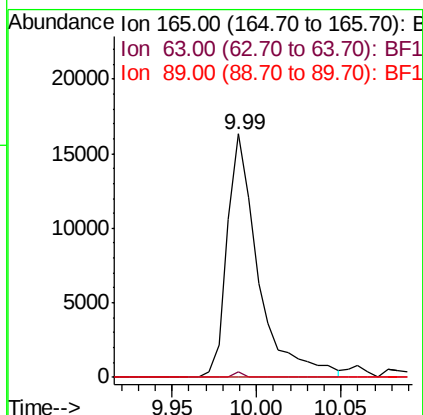
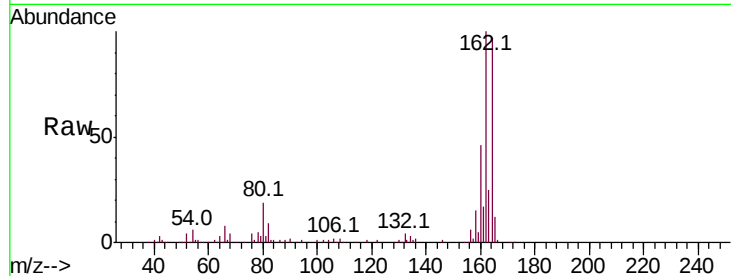




#50  
 2,6-Dinitrotoluene  
 Concen: 7.235 ng  
 RT: 9.99 min Scan# 1301  
 Delta R.T. 0.19 min  
 Lab File: BF107953.D  
 Acq: 3 Aug 2018 22:16

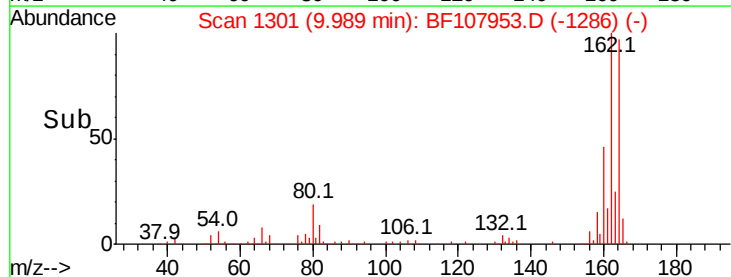
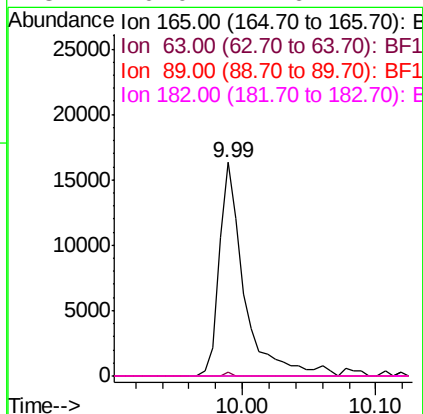
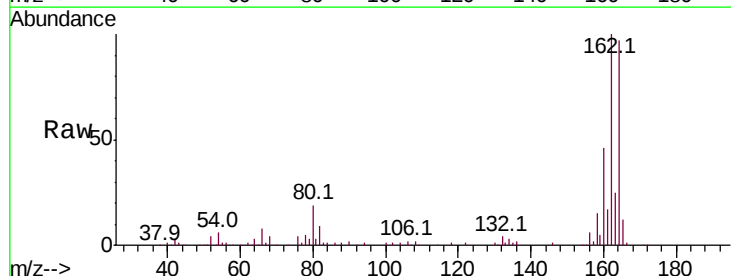
Instrument :  
 BNA\_F  
 ClientSampleId :

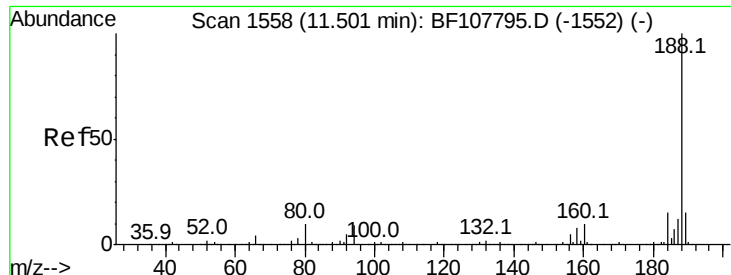
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 5.660 ng  
 RT: 9.99 min Scan# 1301  
 Delta R.T. -0.21 min  
 Lab File: BF107953.D  
 Acq: 3 Aug 2018 22:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 36.4  | 54.6# |
| 89      | 0.0   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

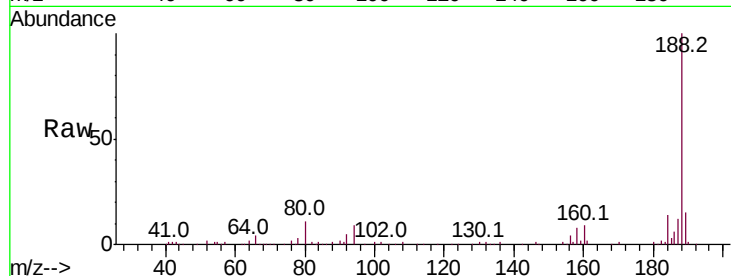




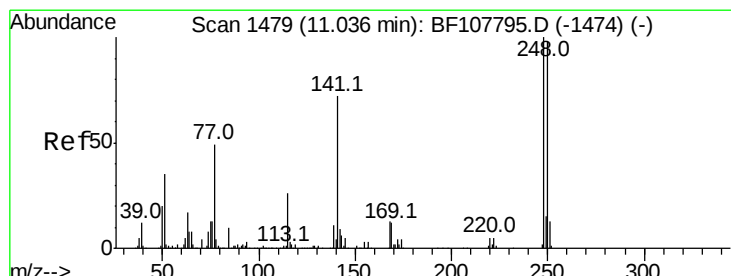
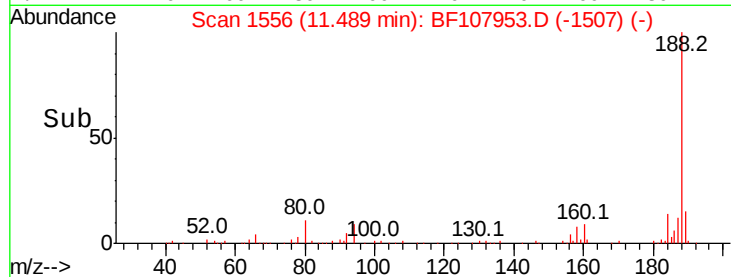
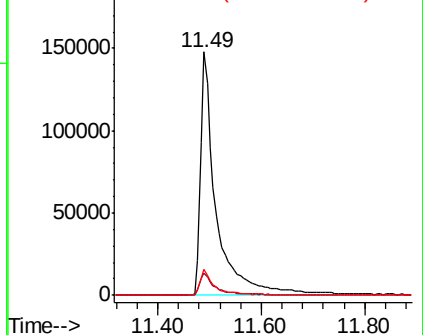
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.49 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 311762  
Ion Ratio Lower Upper  
188 100  
94 9.3 8.5 12.7  
80 10.8 9.2 13.8

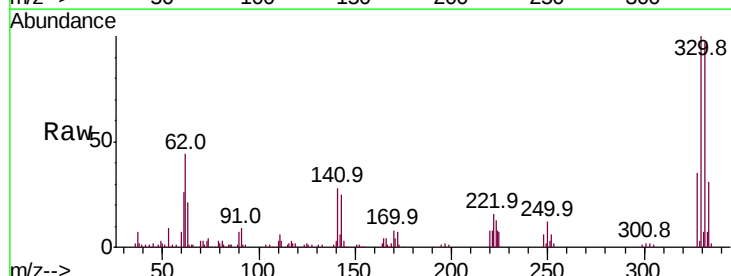


Abundance Ion 188.00 (187.70 to 188.70): E  
200000  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

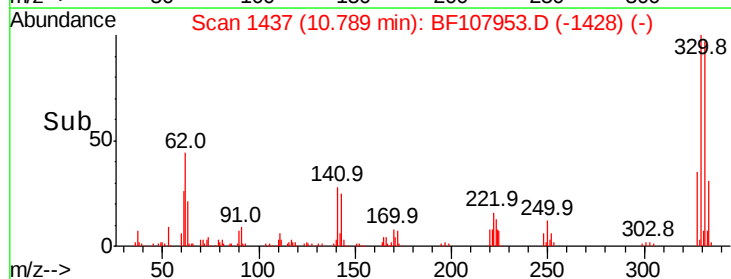
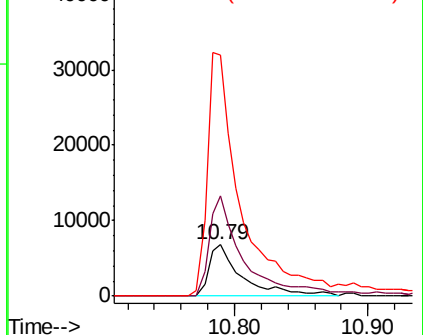


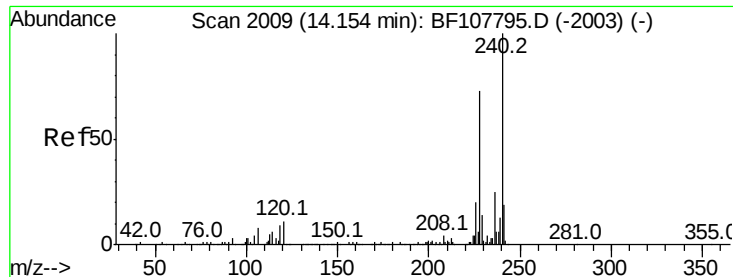
#66  
4-Bromophenyl-phenylether  
Concen: 3.242 ng  
RT: 10.79 min Scan# 1437  
Delta R.T. -0.25 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

Tgt Ion:248 Resp: 11782  
Ion Ratio Lower Upper  
248 100  
250 197.5 76.9 115.3#  
141 472.1 74.4 111.6#



Abundance Ion 248.00 (247.70 to 248.70): E  
40000  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF107953.D

Acq: 3 Aug 2018 22:16

Instrument :

BNA\_F

ClientSampled :

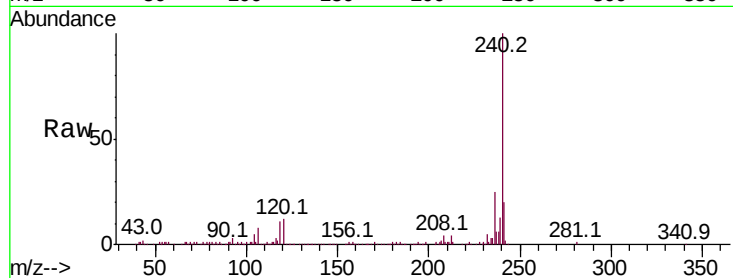
Tot Ion:240 Resp: 312565

Ion Ratio Lower Upper

240 100

120 11.5 9.5 14.3

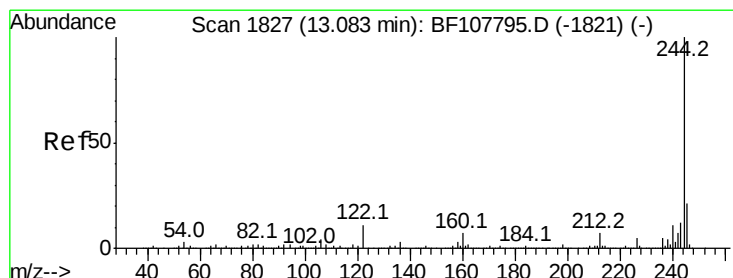
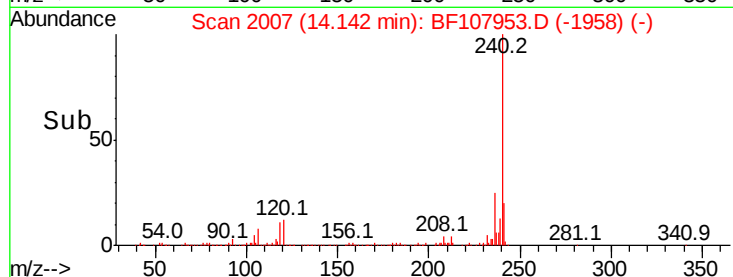
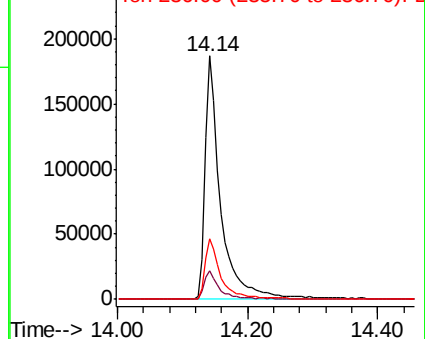
236 24.9 20.7 31.1



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: 68.733 ng

RT: 13.07 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF107953.D

Acq: 3 Aug 2018 22:16

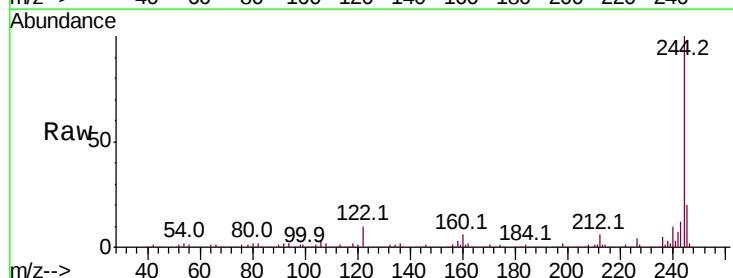
Tgt Ion:244 Resp: 990735

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

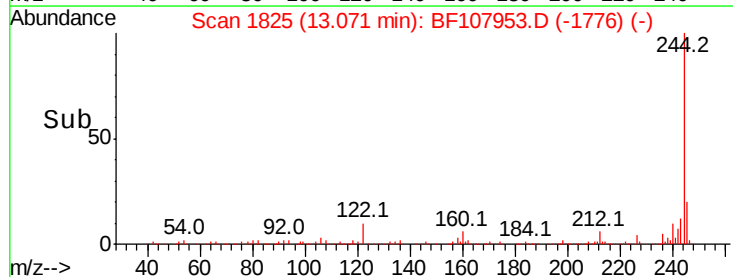
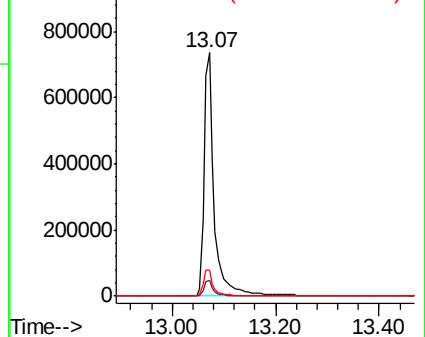
122 10.5 11.0 16.4#

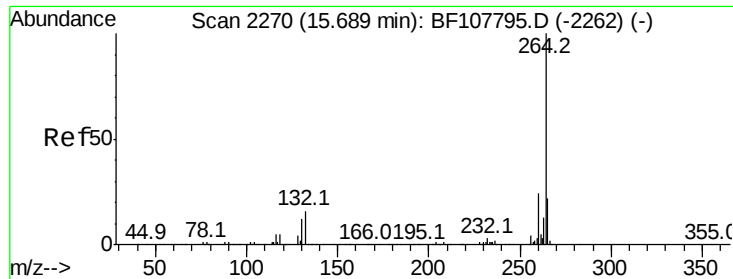


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.67 min Scan# 2267  
Delta R.T. -0.02 min  
Lab File: BF107953.D  
Acq: 3 Aug 2018 22:16

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.2  | 28.8  |
| 265     | 22.9  | 17.5  | 26.3  |

