

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111517\  
 Data File : BF100593.D  
 Acq On : 15 Nov 2017 17:32  
 Operator : SJ/JU  
 Sample : I6448-03  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 16 03:34:33 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 15 13:27:38 2017  
 Response via : Initial Calibration

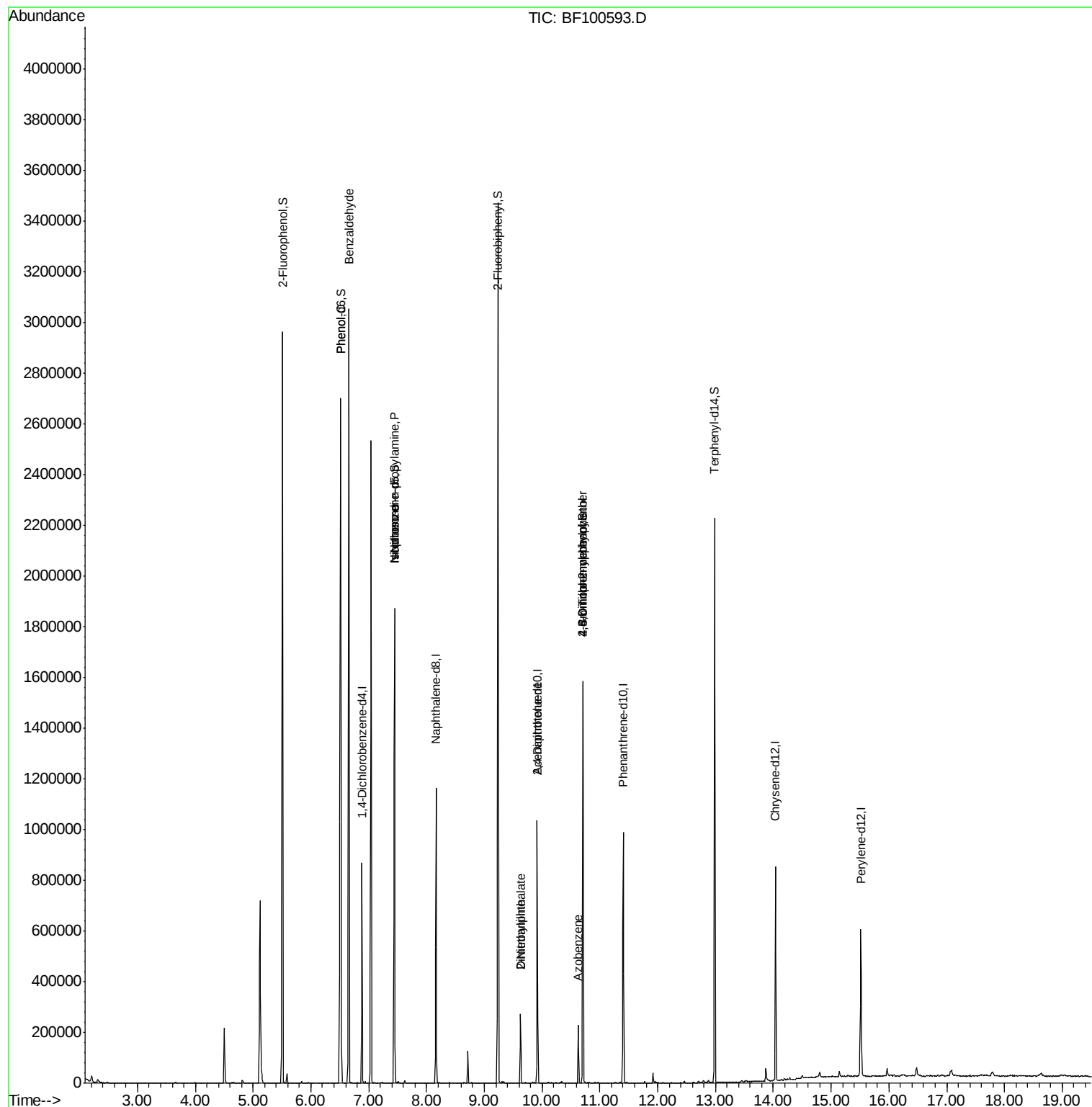
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.88  | 152  | 130351   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.16  | 136  | 500905   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.92  | 164  | 207846   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.40 | 188  | 319701   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.04 | 240  | 273717   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.52 | 264  | 265540   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.51  | 112  | 939796   | 115.57 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.52  | 99   | 1121934  | 111.89 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 709012   | 93.58  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.71 | 330  | 225483   | 106.46 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.24  | 172  | 1182595  | 86.64  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.99 | 244  | 754003   | 63.29  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 9) Benzaldehyde                | 6.66  | 77   | 19284    | 2.69   | ng    | 81       |
| 10) Phenol                     | 6.52  | 94   | 63361    | 6.02   | ng    | 90       |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 93159    | 13.40  | ng    | # 81     |
| 25) Isophorone                 | 7.45  | 82   | 709005   | 44.53  | ng    | # 64     |
| 47) 2-Nitroaniline             | 9.63  | 65   | 833      | 2.99   | ng    | # 1      |
| 49) Dimethylphthalate          | 9.63  | 163  | 97819    | 6.16   | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165  | 26966    | 6.80   | ng    | # 23     |
| 62) Azobenzene                 | 10.63 | 77   | 35073    | 2.34   | ng    | # 1      |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198  | 336      | 8.74   | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.71 | 248  | 14002    | 4.09   | ng    | # 1      |

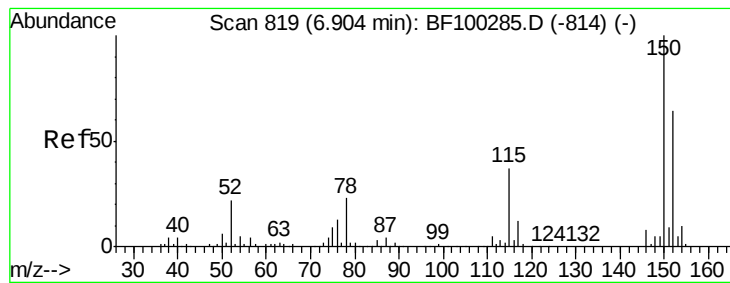
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 17 Sample Multiplier: 1

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BNA\_F  
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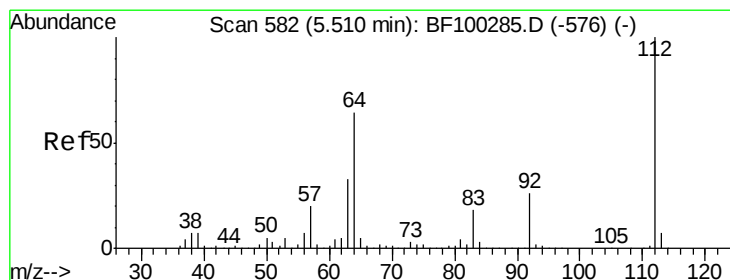
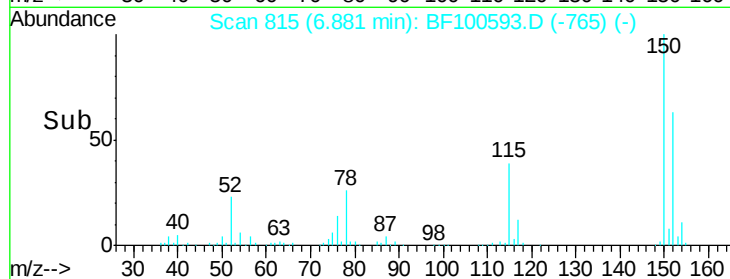
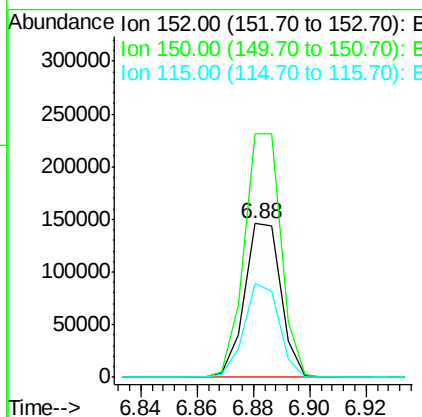
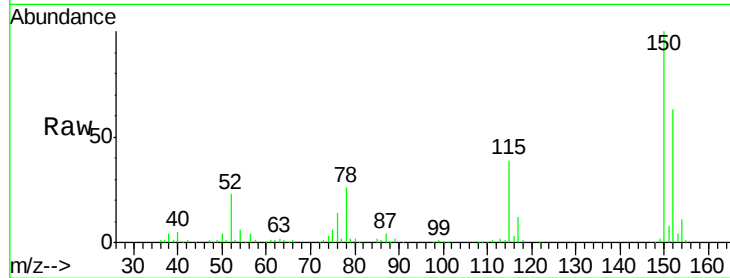




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.88 min Scan# 815  
 Delta R.T. -0.01 min  
 Lab File: BF100593.D  
 Acq: 15 Nov 2017 17:32

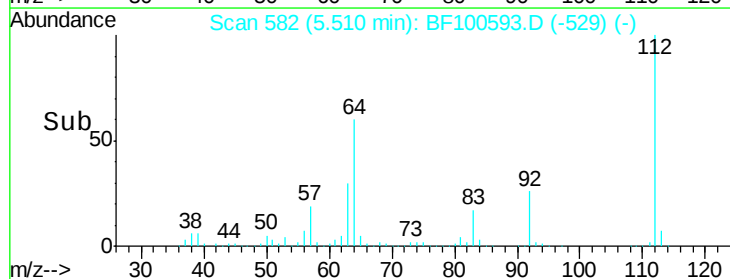
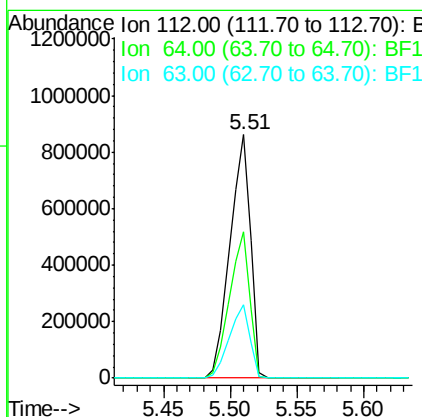
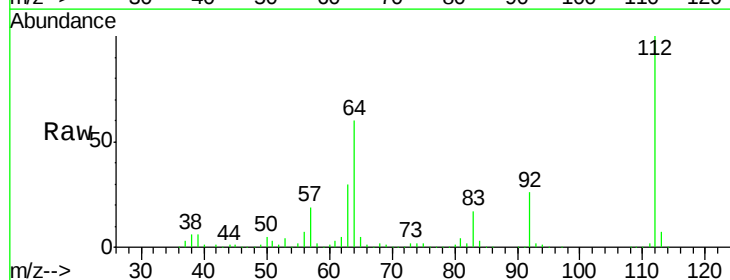
Instrument :  
 BNA\_F  
 ClientSampleId :

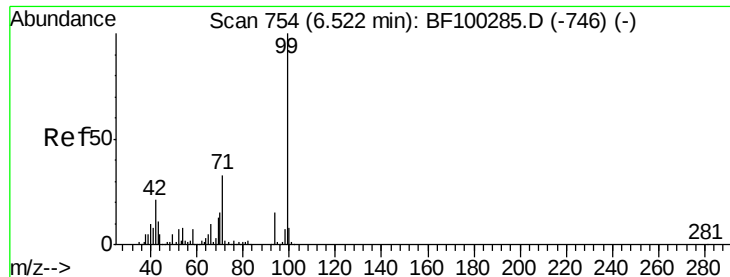
Tot Ion:152 Resp: 130351  
 Ion Ratio Lower Upper  
 152 100  
 150 158.7 124.6 186.8  
 115 61.5 50.1 75.1



#5  
 2-Fluorophenol  
 Concen: 115.57 ng  
 RT: 5.51 min Scan# 582  
 Delta R.T. 0.01 min  
 Lab File: BF100593.D  
 Acq: 15 Nov 2017 17:32

Tgt Ion:112 Resp: 939796  
 Ion Ratio Lower Upper  
 112 100  
 64 60.1 47.9 71.9  
 63 30.3 23.7 35.5





#7

Phenol-d6

Concen: 111.89 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.00 min

Lab File: BF100593.D

Acq: 15 Nov 2017 17:32

Instrument :

BNA\_F

ClientSampleId :

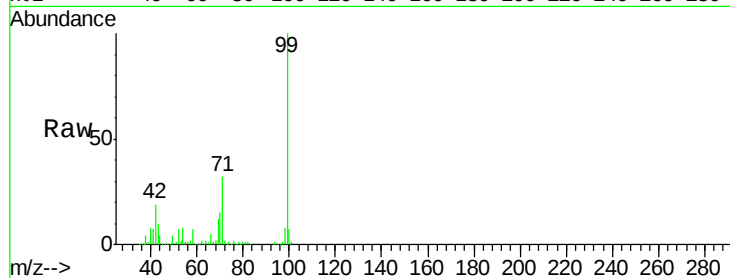
Tot Ion: 99 Resp: 1121934

Ion Ratio Lower Upper

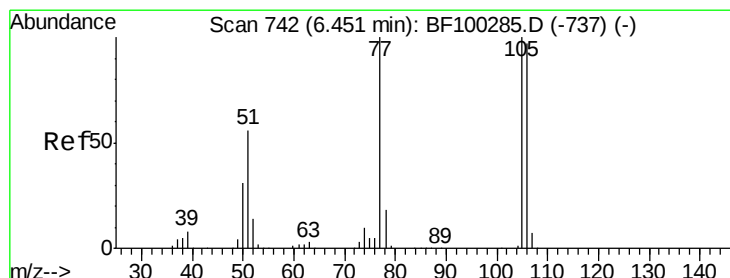
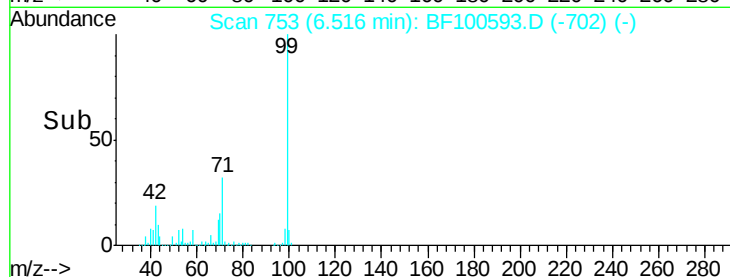
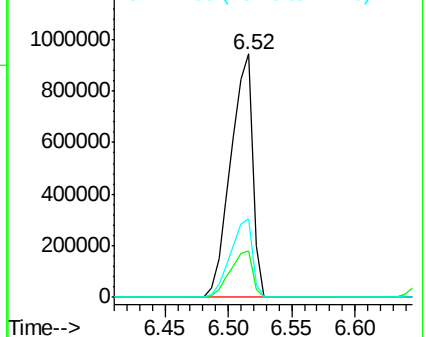
99 100

42 19.3 14.5 21.7

71 32.2 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: 2.69 ng

RT: 6.66 min Scan# 777

Delta R.T. 0.22 min

Lab File: BF100593.D

Acq: 15 Nov 2017 17:32

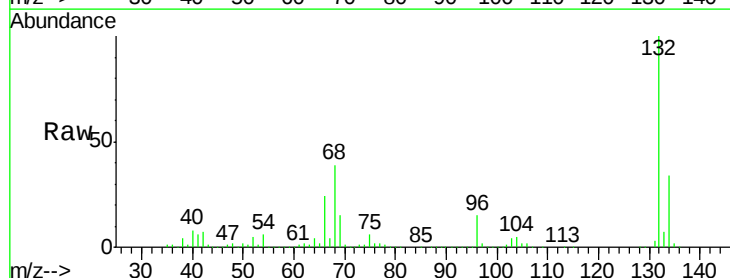
Tgt Ion: 77 Resp: 19284

Ion Ratio Lower Upper

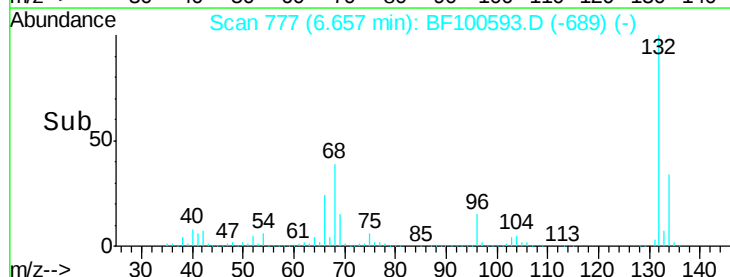
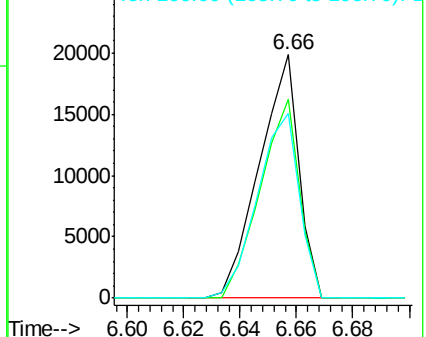
77 100

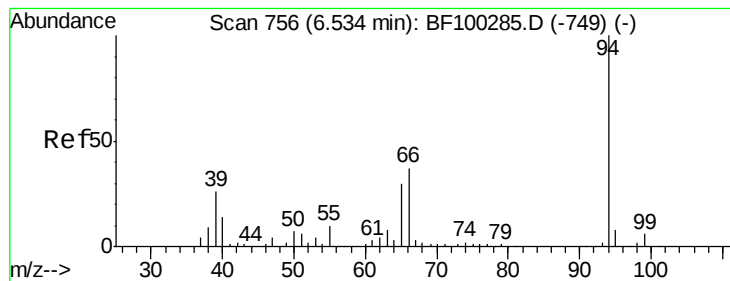
105 81.6 81.1 121.1

106 76.1 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 106.00 (105.70 to 106.70): BF1





#10

Phenol

Concen: 6.02 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.01 min

Lab File: BF100593.D

Acq: 15 Nov 2017 17:32

Instrument :

BNA\_F

ClientSampled :

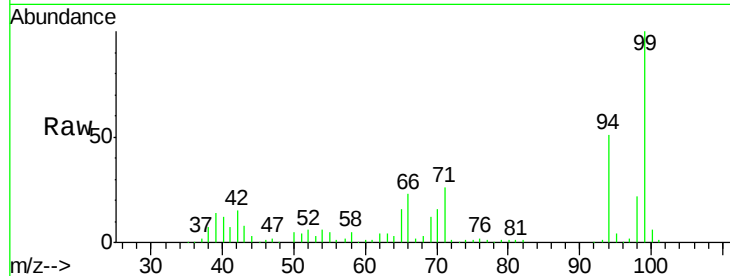
Tot Ion: 94 Resp: 63361

Ion Ratio Lower Upper

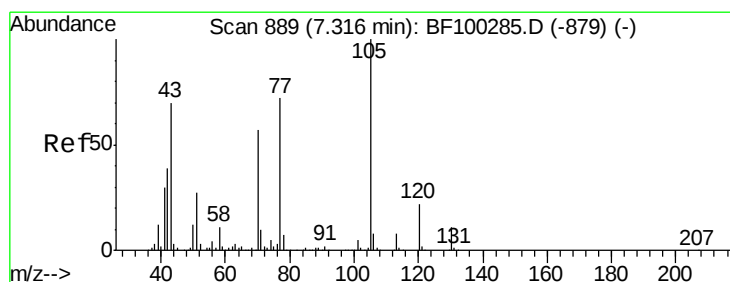
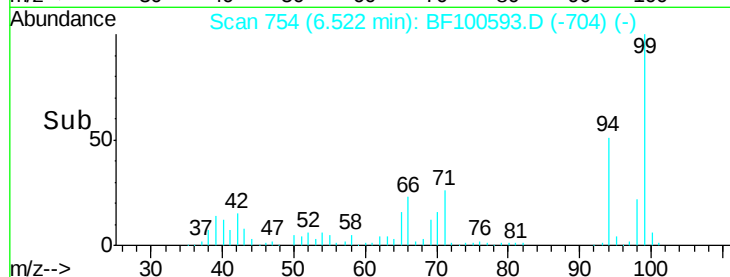
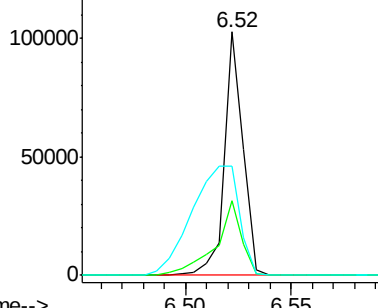
94 100

65 30.6 7.9 47.9

66 44.6 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: 13.40 ng

RT: 7.45 min Scan# 911

Delta R.T. 0.14 min

Lab File: BF100593.D

Acq: 15 Nov 2017 17:32

Tgt Ion: 70 Resp: 93159

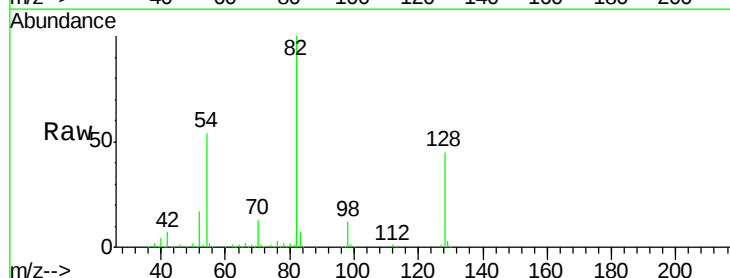
Ion Ratio Lower Upper

70 100

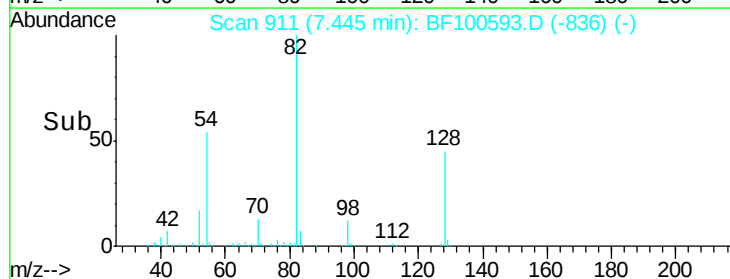
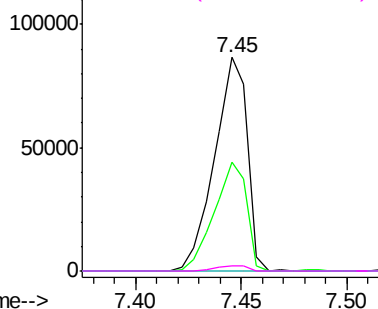
42 51.1 47.5 71.3

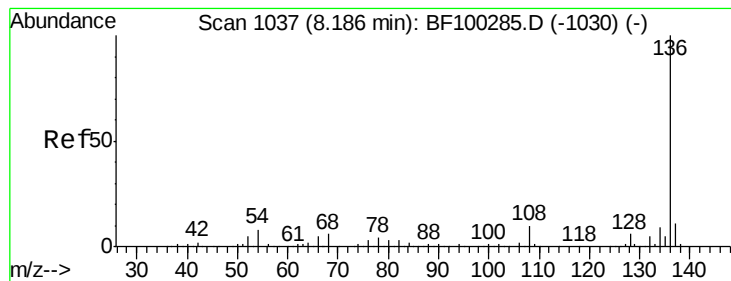
101 0.0 7.4 11.2#

130 2.2 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: 20.00 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF100593.D

Acq: 15 Nov 2017 17:32

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 500905

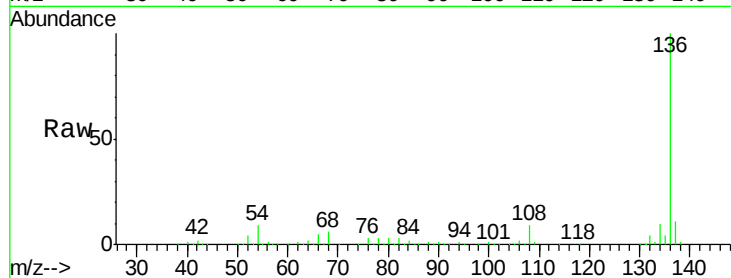
Ion Ratio Lower Upper

136 100

137 11.5 8.9 13.3

54 8.8 6.6 9.8

68 6.2 5.0 7.4

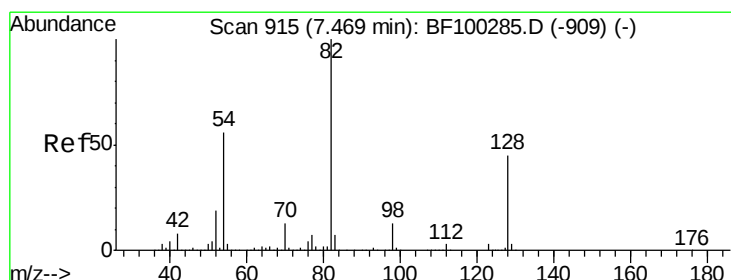
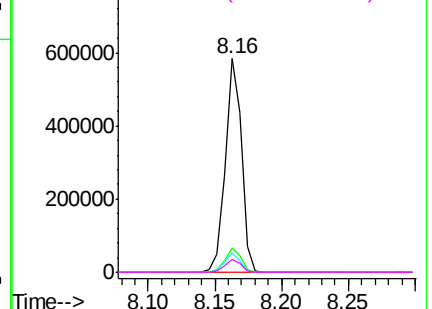
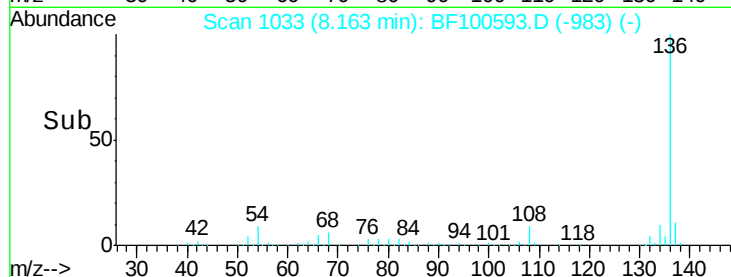


Abundance Ion 136.00 (135.70 to 136.70): E

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: 93.58 ng

RT: 7.45 min Scan# 911

Delta R.T. -0.01 min

Lab File: BF100593.D

Acq: 15 Nov 2017 17:32

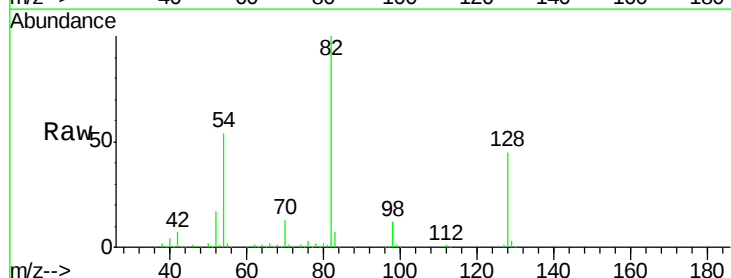
Tgt Ion: 82 Resp: 709012

Ion Ratio Lower Upper

82 100

128 44.8 36.1 54.1

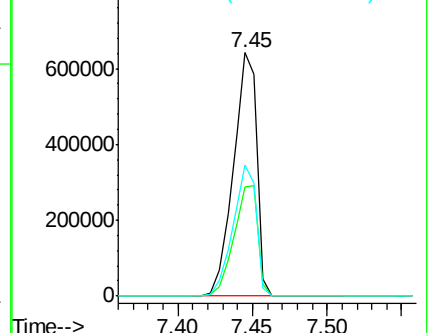
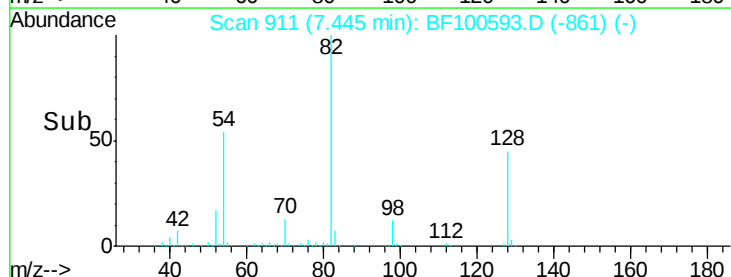
54 53.8 41.4 62.2

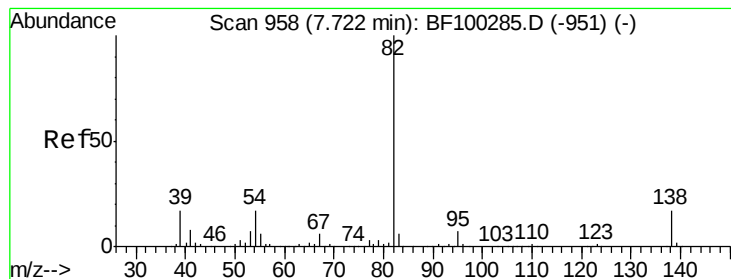


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 44.53 ng

RT: 7.45 min Scan# 911

Delta R.T. -0.26 min

Lab File: BF100593.D

Acq: 15 Nov 2017 17:32

Instrument :

BNA\_F

ClientSampleId :

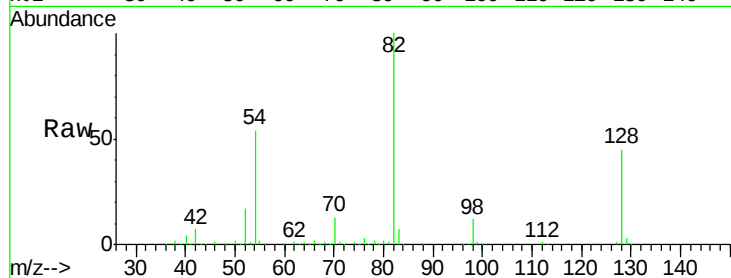
Tot Ion: 82 Resp: 709005

Ion Ratio Lower Upper

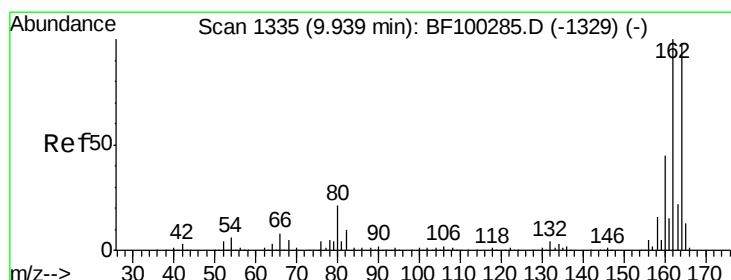
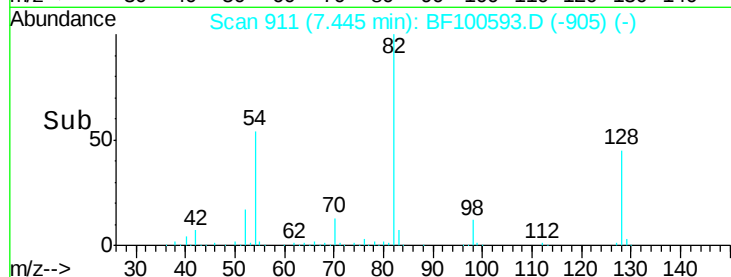
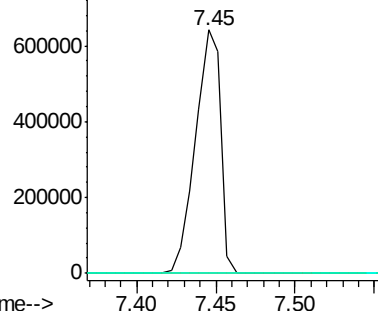
82 100

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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF100593.D

Acq: 15 Nov 2017 17:32

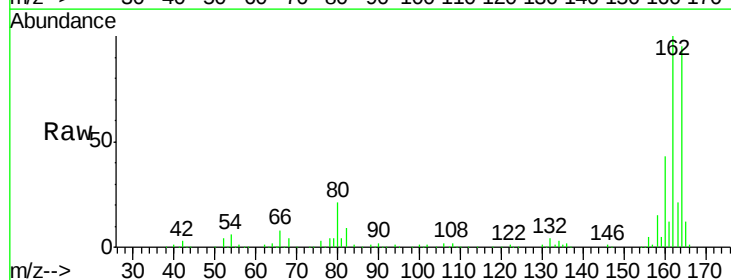
Tgt Ion: 164 Resp: 207846

Ion Ratio Lower Upper

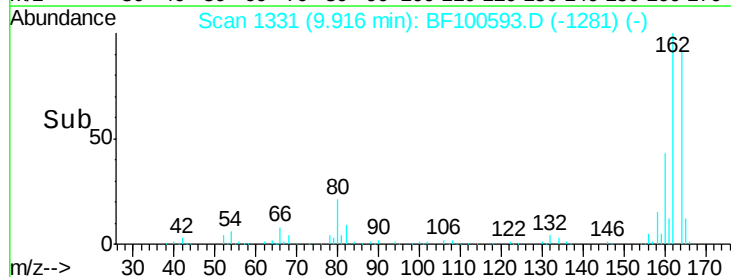
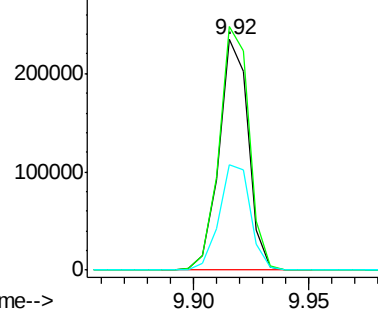
164 100

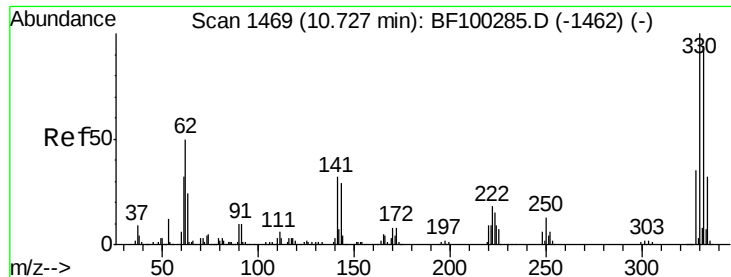
162 105.6 86.1 129.1

160 45.7 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): BF1  
Ion 162.00 (161.70 to 162.70): BF1  
Ion 160.00 (159.70 to 160.70): BF1

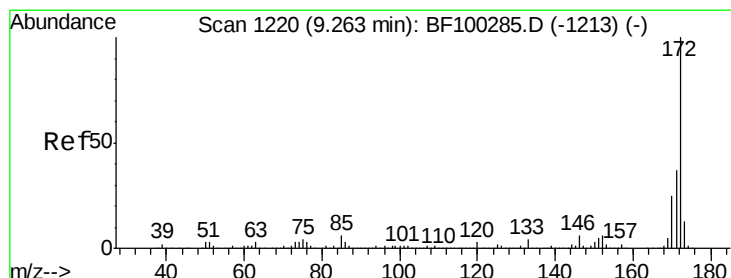
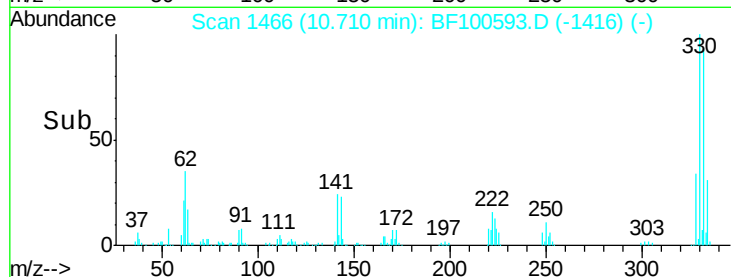
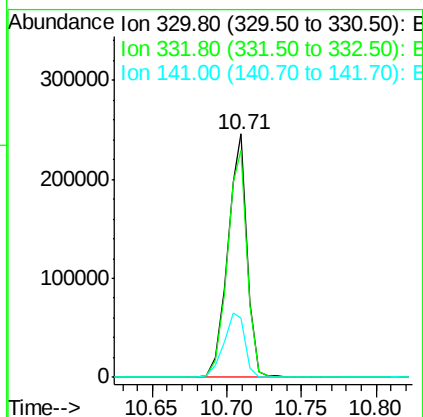
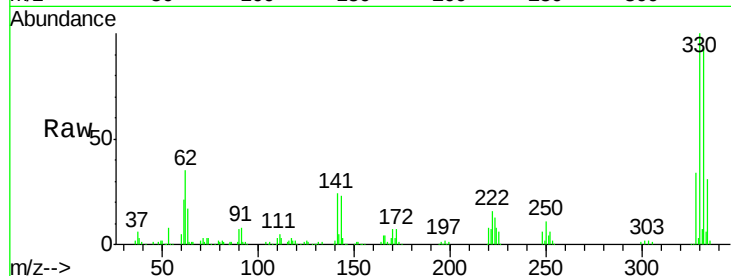




#41  
 2,4,6-Tribromophenol  
 Concen: 106.46 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.01 min  
 Lab File: BF100593.D  
 Acq: 15 Nov 2017 17:32

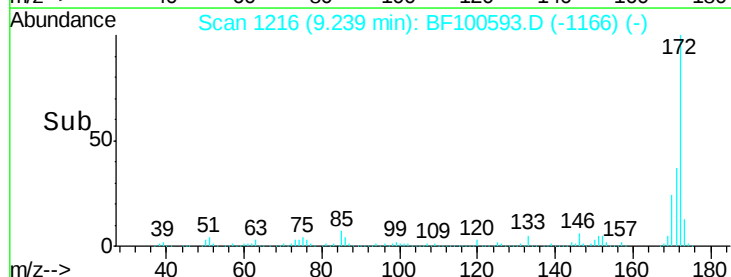
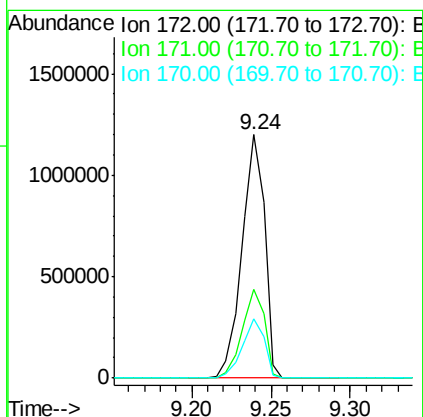
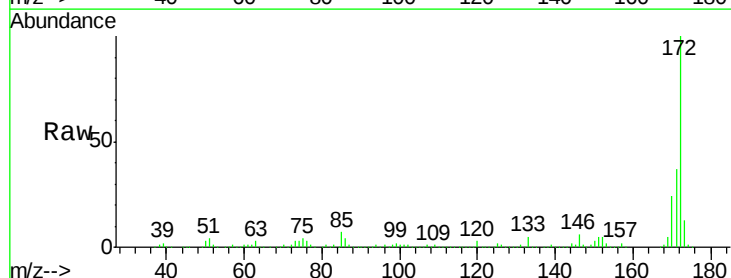
Instrument :  
 BNA\_F  
 ClientSampleId :

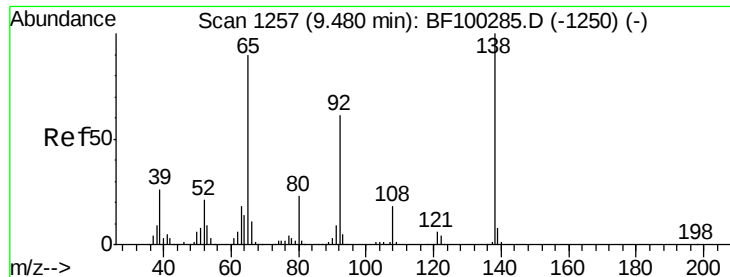
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 77.0  | 115.6 |
| 141     | 28.9  | 29.9  | 44.9# |



#44  
 2-Fluorobiphenyl  
 Concen: 86.64 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF100593.D  
 Acq: 15 Nov 2017 17:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.7  | 29.7  | 44.5  |
| 170     | 24.3  | 19.6  | 29.4  |

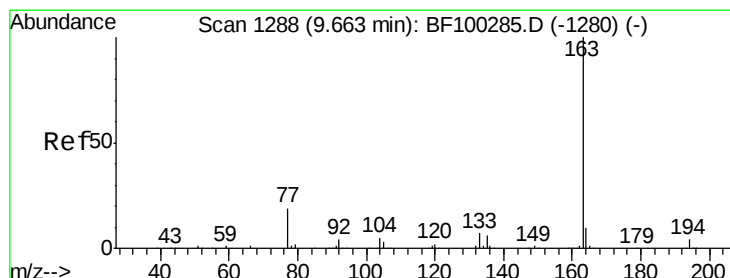
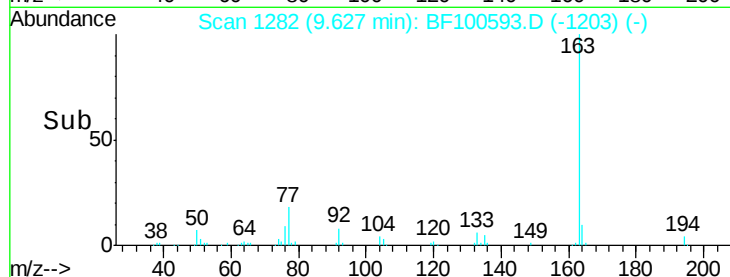
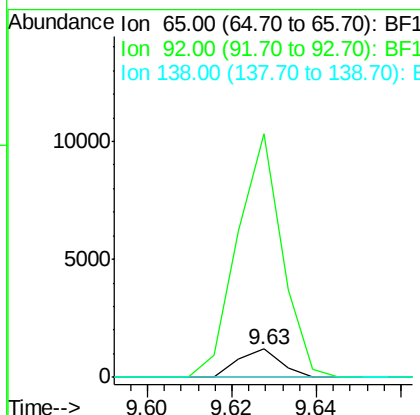
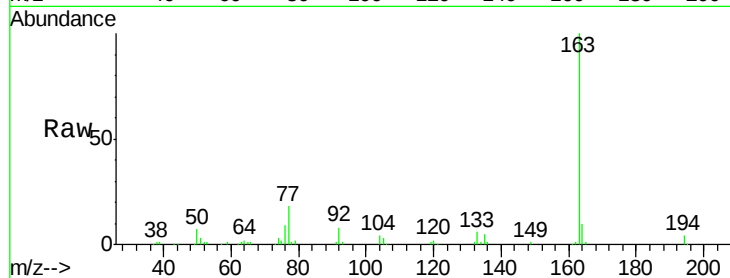




#47  
2-Nitroaniline  
Concen: 2.99 ng  
RT: 9.63 min Scan# 1282  
Delta R.T. 0.16 min  
Lab File: BF100593.D  
Acq: 15 Nov 2017 17:32

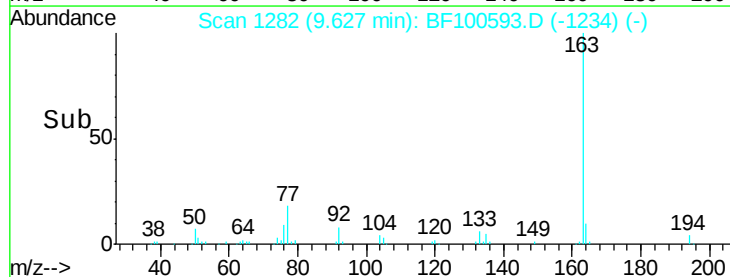
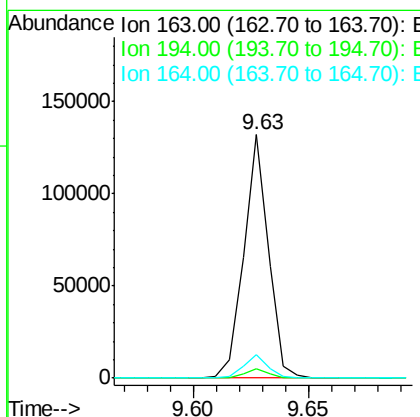
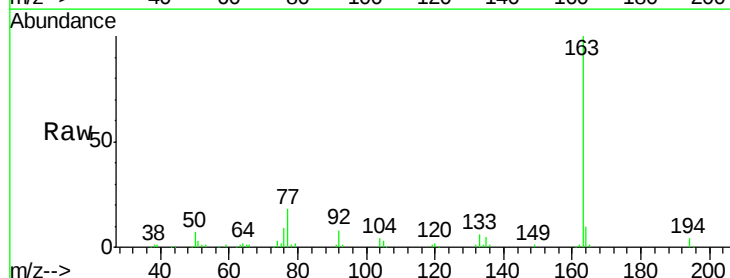
Instrument :  
BNA\_F  
ClientSampled :

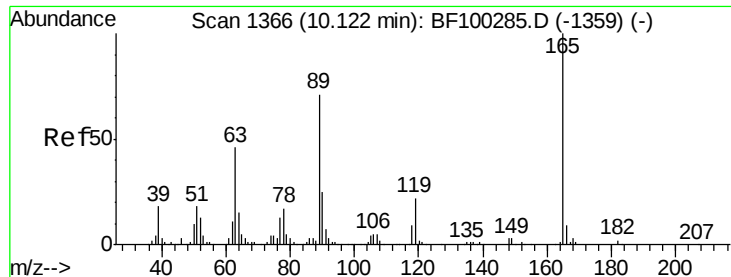
Tot Ion: 65 Resp: 833  
Ion Ratio Lower Upper  
65 100  
92 869.3 55.8 83.6#  
138 0.0 91.2 136.8#



#49  
Dimethylphthalate  
Concen: 6.16 ng  
RT: 9.63 min Scan# 1282  
Delta R.T. -0.02 min  
Lab File: BF100593.D  
Acq: 15 Nov 2017 17:32

Tgt Ion:163 Resp: 97819  
Ion Ratio Lower Upper  
163 100  
194 4.0 2.7 4.1  
164 9.7 8.2 12.2

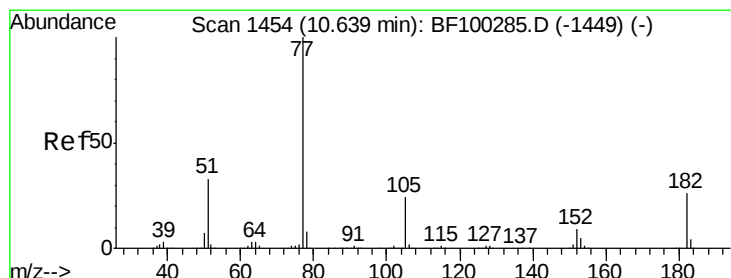
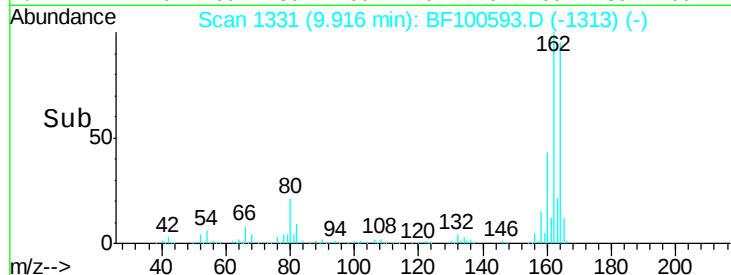
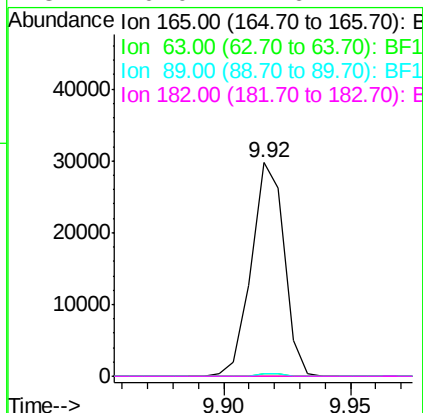
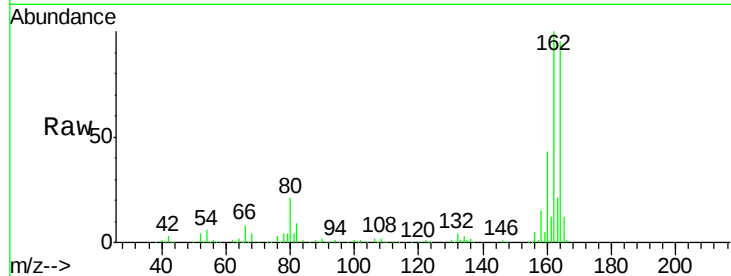




#56  
 2,4-Dinitrotoluene  
 Concen: 6.80 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.19 min  
 Lab File: BF100593.D  
 Acq: 15 Nov 2017 17:32

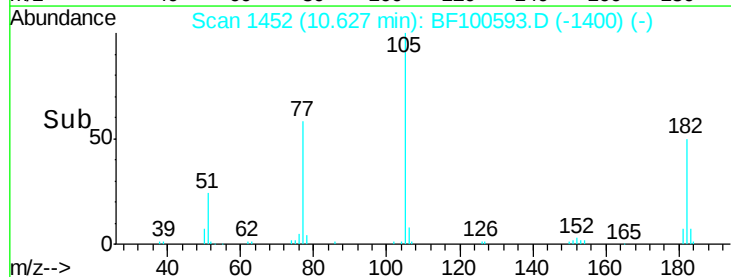
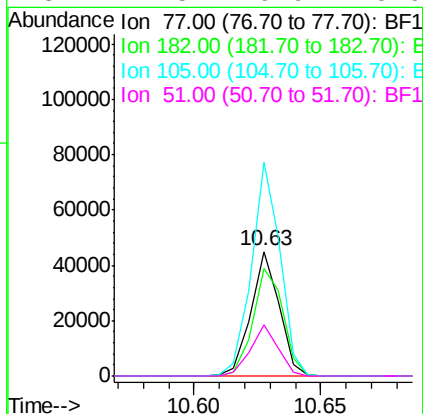
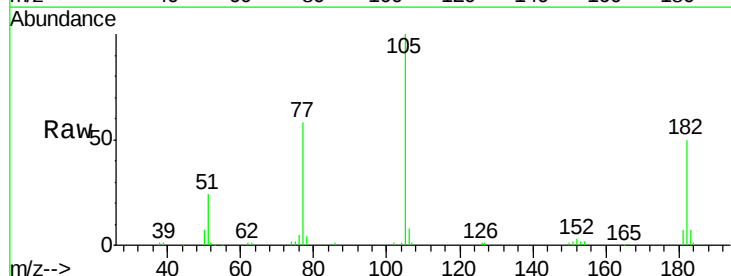
Instrument :  
 BNA\_F  
 ClientSampleId :

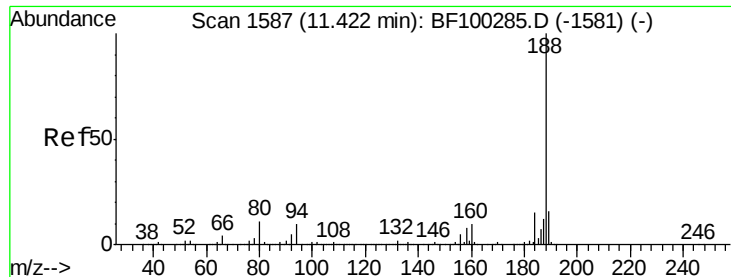
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 36.4  | 54.6# |
| 89      | 1.2   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



#62  
 Azobenzene  
 Concen: 2.34 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. 0.01 min  
 Lab File: BF100593.D  
 Acq: 15 Nov 2017 17:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 86.1  | 1.7   | 41.7# |
| 105     | 171.6 | 3.0   | 43.0# |
| 51      | 41.5  | 9.9   | 49.9  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF100593.D

Acq: 15 Nov 2017 17:32

Instrument :

BNA\_F

ClientSampleId :

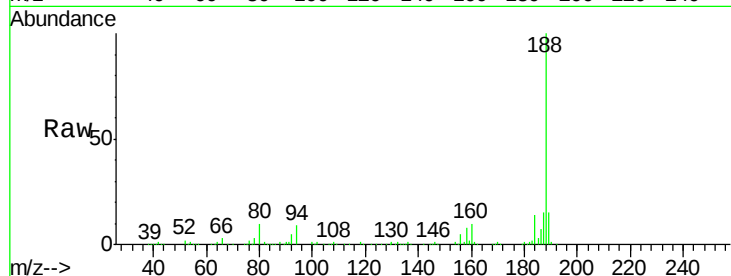
Tot Ion:188 Resp: 319701

Ion Ratio Lower Upper

188 100

94 9.3 8.5 12.7

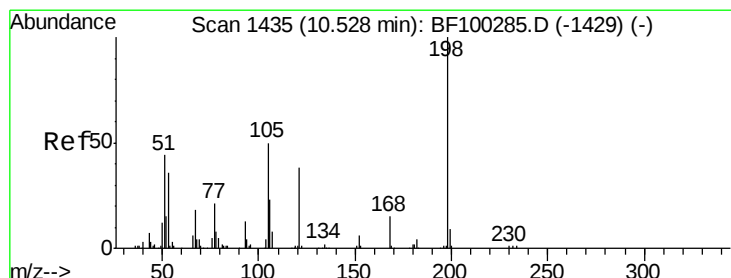
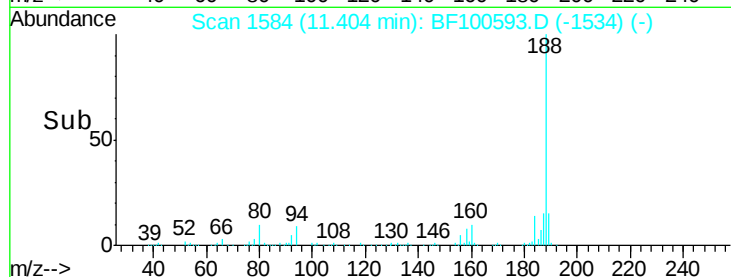
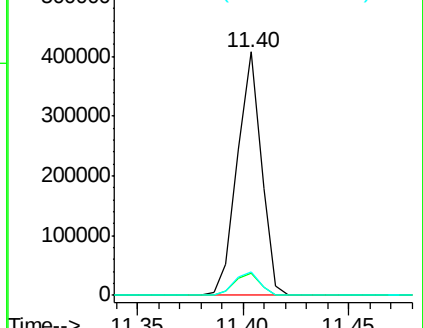
80 9.9 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#64

4,6-Dinitro-2-methylphenol

Concen: 8.74 ng

RT: 10.70 min Scan# 1465

Delta R.T. 0.18 min

Lab File: BF100593.D

Acq: 15 Nov 2017 17:32

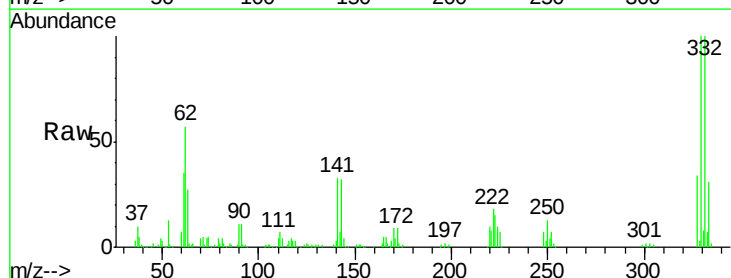
Tgt Ion:198 Resp: 336

Ion Ratio Lower Upper

198 100

51 146.3 37.7 77.7#

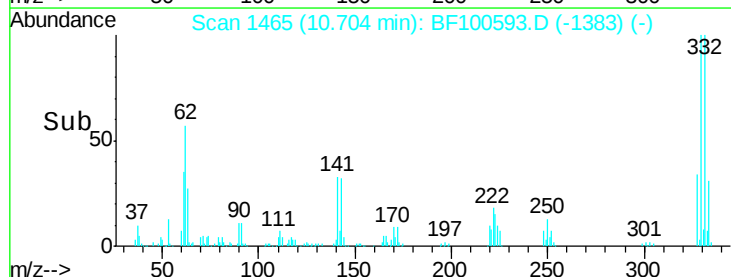
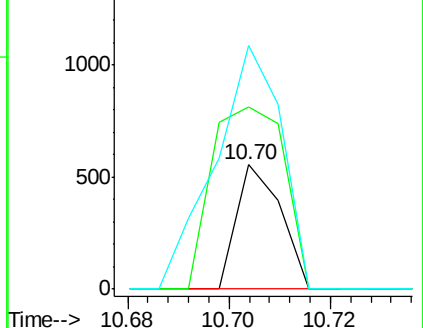
105 195.7 36.3 76.3#

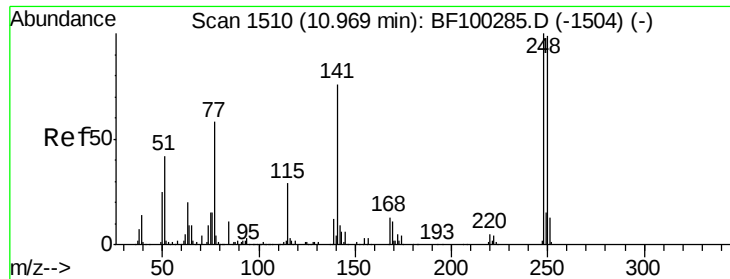


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

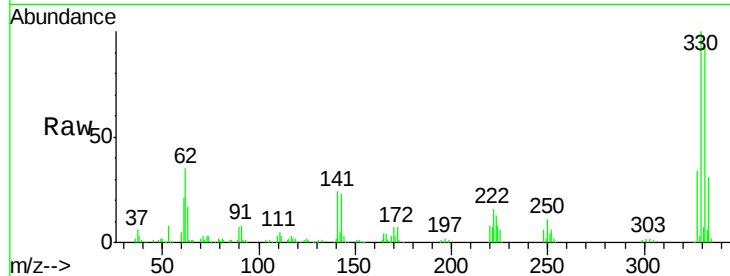




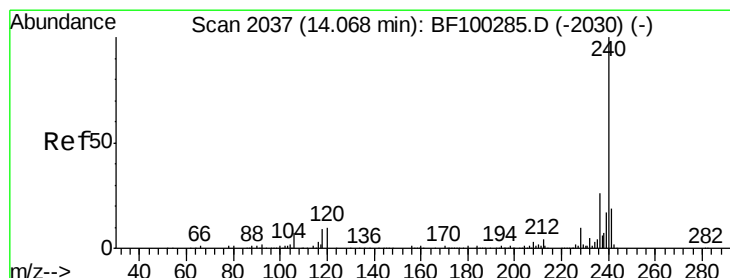
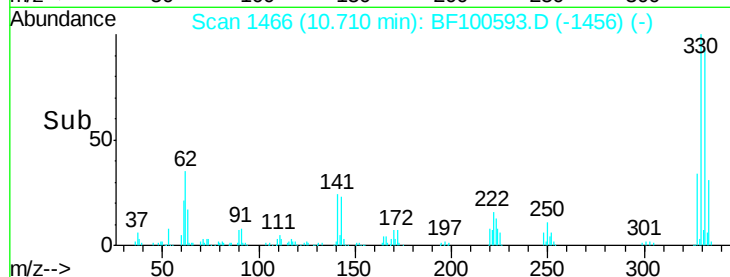
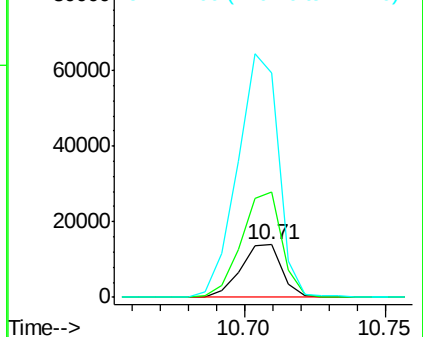
#66  
4-Bromophenyl-phenylether  
Concen: 4.09 ng  
RT: 10.71 min Scan# 1466  
Delta R.T. -0.24 min  
Lab File: BF100593.D  
Acq: 15 Nov 2017 17:32

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 14002  
Ion Ratio Lower Upper  
248 100  
250 201.0 76.9 115.3#  
141 425.9 74.4 111.6#

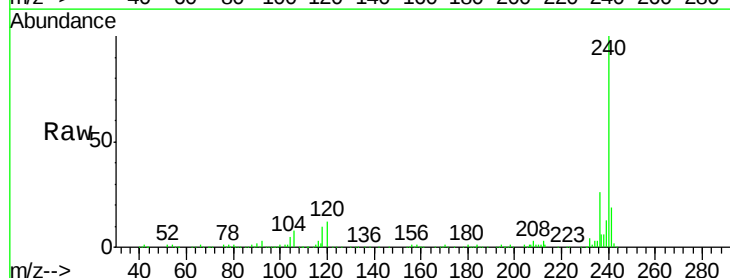


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

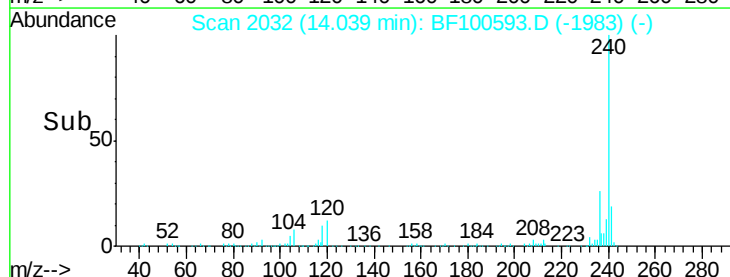
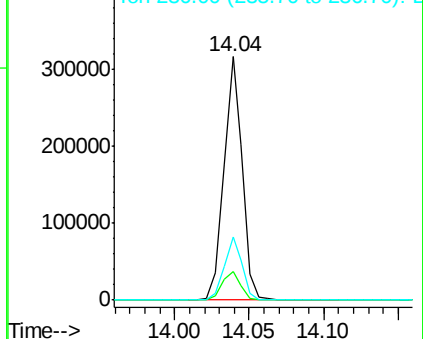


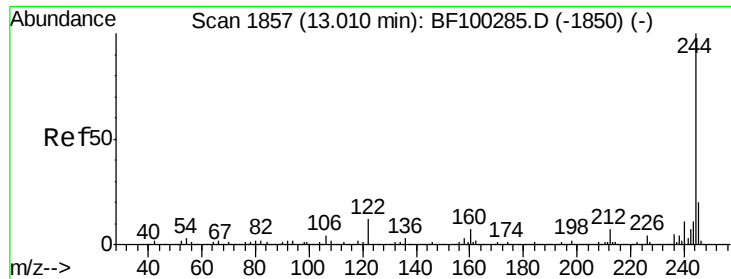
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.04 min Scan# 2032  
Delta R.T. -0.01 min  
Lab File: BF100593.D  
Acq: 15 Nov 2017 17:32

Tgt Ion:240 Resp: 273717  
Ion Ratio Lower Upper  
240 100  
120 12.0 9.5 14.3  
236 25.8 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

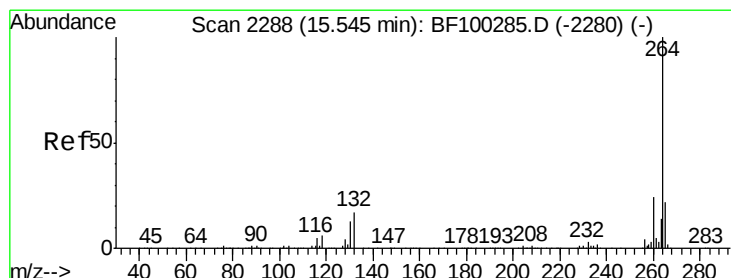
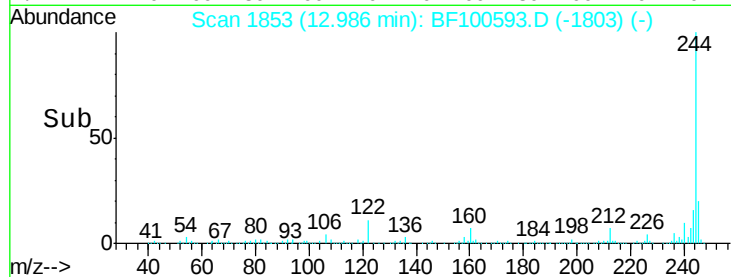
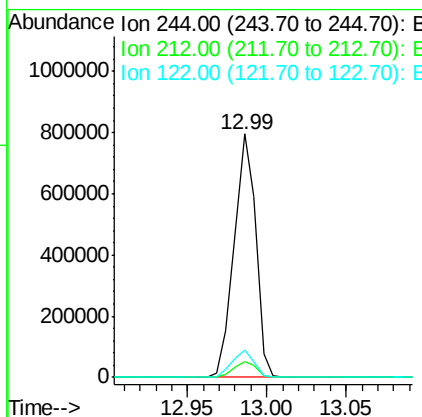
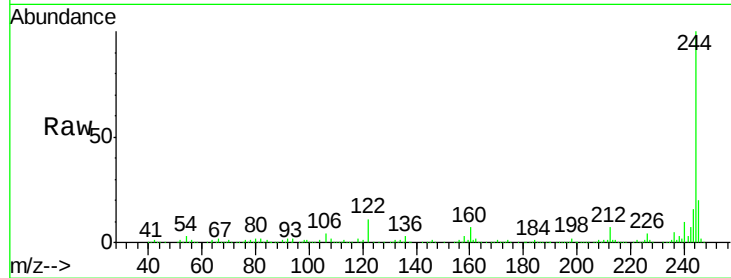




#78  
 Terphenyl-d14  
 Concen: 63.29 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. -0.01 min  
 Lab File: BF100593.D  
 Acq: 15 Nov 2017 17:32

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 754003  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.4 8.0  
 122 11.4 11.0 16.4



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.52 min Scan# 2283  
 Delta R.T. -0.01 min  
 Lab File: BF100593.D  
 Acq: 15 Nov 2017 17:32

Tgt Ion:264 Resp: 265540  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 19.2 28.8  
 265 20.2 17.5 26.3

