

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040919\  
 Data File : BF113654.D  
 Acq On : 9 Apr 2019 10:53  
 Operator : JU/SJ  
 Sample : K2129-03  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Apr 09 11:29:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 04 04:05:31 2019  
 Response via : Initial Calibration

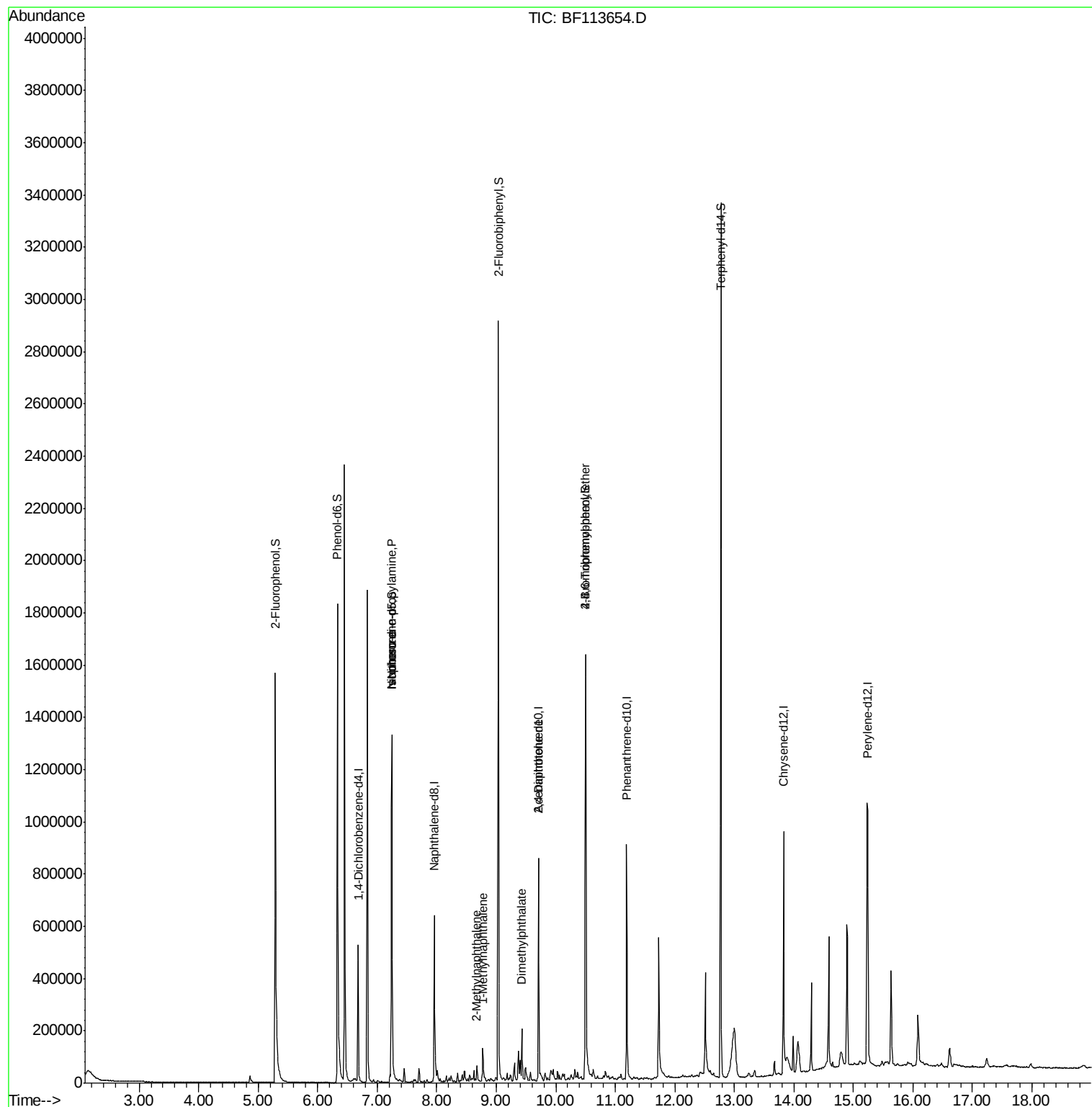
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.68  | 152  | 88617    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 7.96  | 136  | 330520   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10           | 9.71  | 164  | 164839   | 20.00  | ng    | -0.01       |
| 64) Phenanthrene-d10           | 11.19 | 188  | 347257   | 20.00  | ng    | -0.01       |
| 76) Chrysene-d12               | 13.83 | 240  | 344996   | 20.00  | ng    | -0.02       |
| 87) Perylene-d12               | 15.23 | 264  | 328882   | 20.00  | ng    | -0.02       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.29  | 112  | 641222   | 123.39 | ng    | 0.00        |
| 7) Phenol-d6                   | 6.33  | 99   | 818713   | 127.82 | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 7.25  | 82   | 464497   | 82.32  | ng    | -0.01       |
| 42) 2,4,6-Tribromophenol       | 10.50 | 330  | 274382   | 138.57 | ng    | -0.01       |
| 45) 2-Fluorobiphenyl           | 9.03  | 172  | 951866   | 92.96  | ng    | -0.02       |
| 79) Terphenyl-d14              | 12.77 | 244  | 1232120  | 72.71  | ng    | -0.02       |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 7.25  | 70   | 59259    | 15.004 | ng    | Qvalue # 75 |
| 25) Isophorone                 | 7.25  | 82   | 464495   | 42.733 | ng    | # 64        |
| 37) 2-Methylnaphthalene        | 8.67  | 142  | 21607    | 2.051  | ng    | 96          |
| 38) 1-Methylnaphthalene        | 8.77  | 142  | 38318    | 3.773  | ng    | 97          |
| 50) Dimethylphthalate          | 9.43  | 163  | 90804    | 7.473  | ng    | 99          |
| 57) 2,4-Dinitrotoluene         | 9.71  | 165  | 22115    | 6.827  | ng    | # 23        |
| 67) 4-Bromophenyl-phenylether  | 10.50 | 248  | 15380    | 3.949  | ng    | # 1         |

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

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BNA\_M  
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QLast Update : Thu Apr 04 04:05:31 2019  
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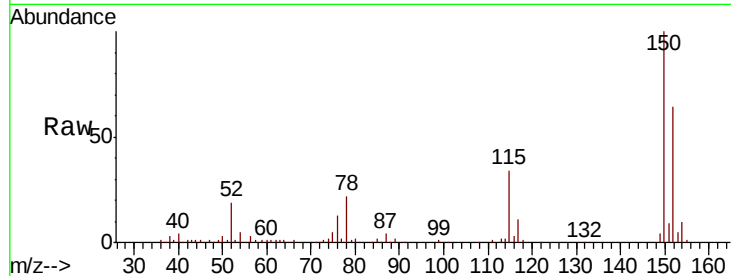


#1

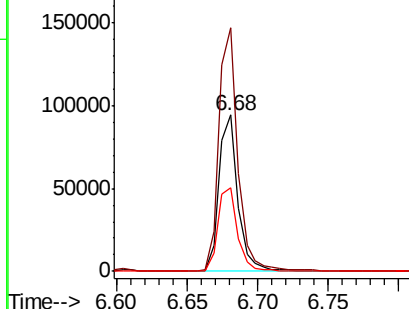
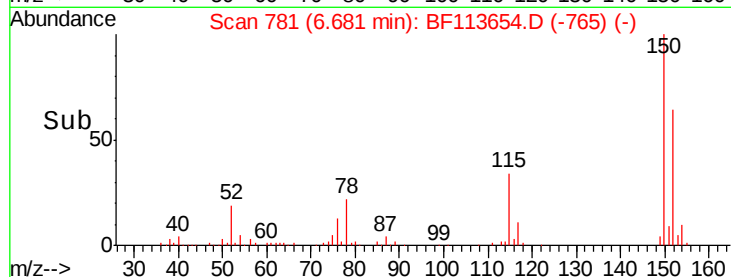
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.68 min Scan# 781  
Delta R.T. -0.01 min  
Lab File: BF113654.D  
Acq: 9 Apr 2019 10:53

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:152 Resp: 88617  
Ion Ratio Lower Upper  
152 100  
150 155.7 124.7 187.1  
115 53.5 46.0 69.0



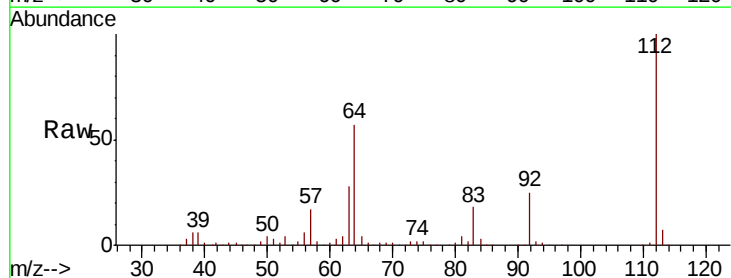
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



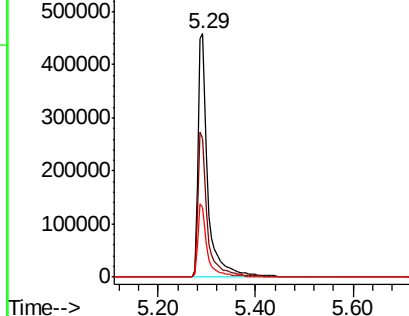
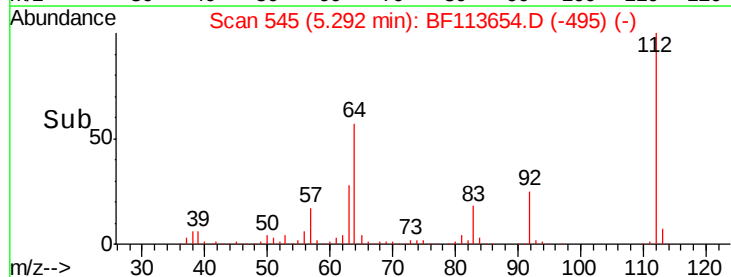
#5

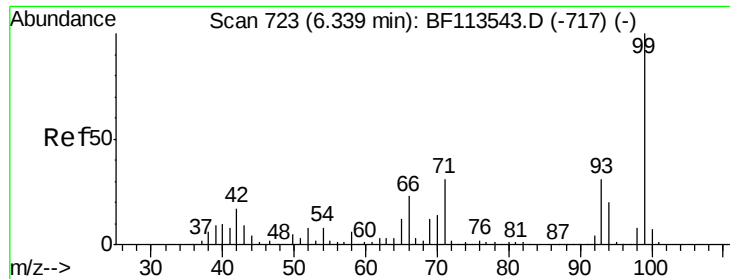
2-Fluorophenol  
Concen: 123.388 ng  
RT: 5.29 min Scan# 545  
Delta R.T. -0.01 min  
Lab File: BF113654.D  
Acq: 9 Apr 2019 10:53

Tgt Ion:112 Resp: 641222  
Ion Ratio Lower Upper  
112 100  
64 56.8 49.2 73.8  
63 28.3 24.9 37.3



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: 127.823 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF113654.D

Acq: 9 Apr 2019 10:53

Instrument :

BNA\_M

ClientSampleId :

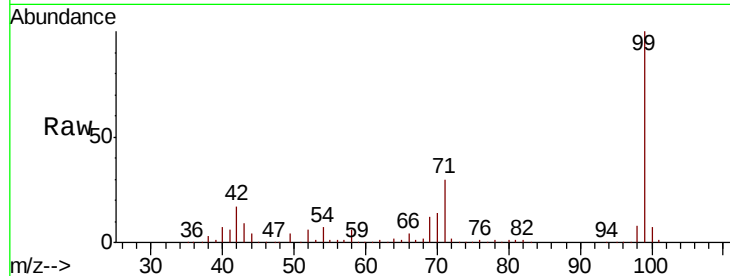
Tot Ion: 99 Resp: 818713

Ion Ratio Lower Upper

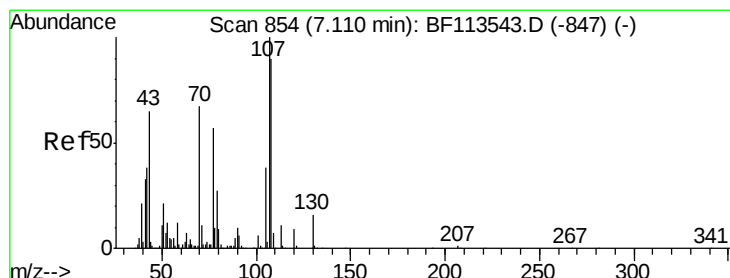
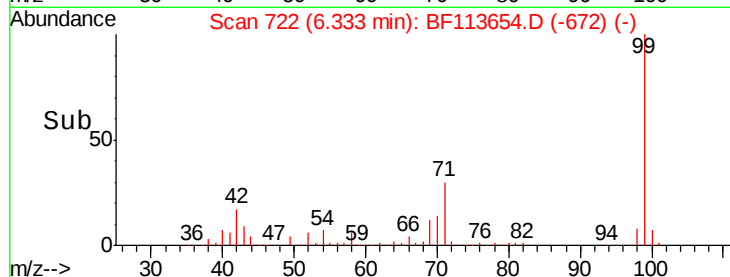
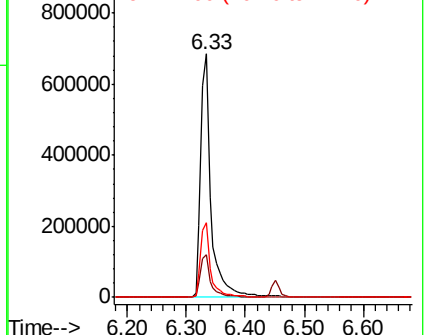
99 100

42 17.4 14.8 22.2

71 30.5 24.9 37.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 15.004 ng

RT: 7.25 min Scan# 877

Delta R.T. 0.14 min

Lab File: BF113654.D

Acq: 9 Apr 2019 10:53

Tgt Ion: 70 Resp: 59259

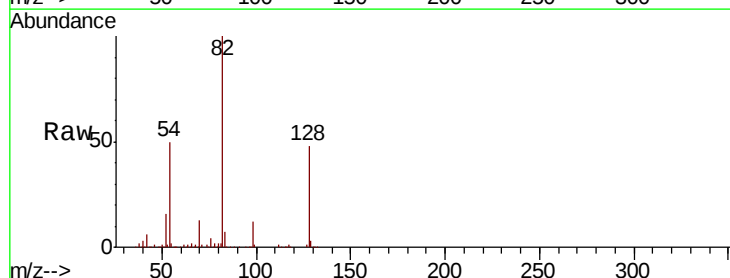
Ion Ratio Lower Upper

70 100

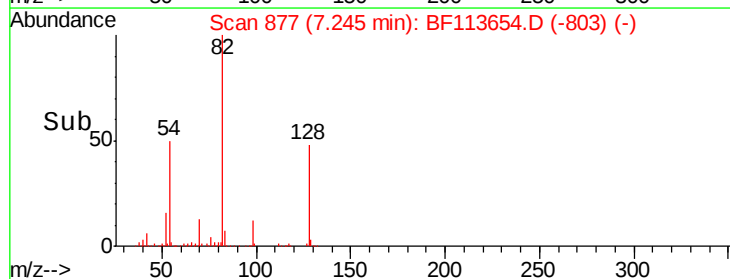
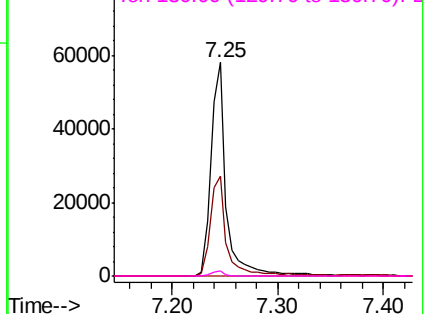
42 46.7 48.4 72.6#

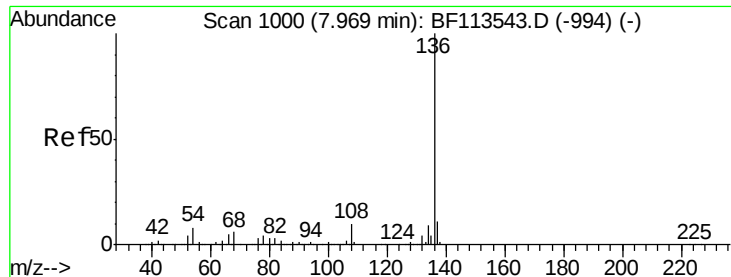
101 0.0 7.8 11.8#

130 2.6 18.2 27.4#



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

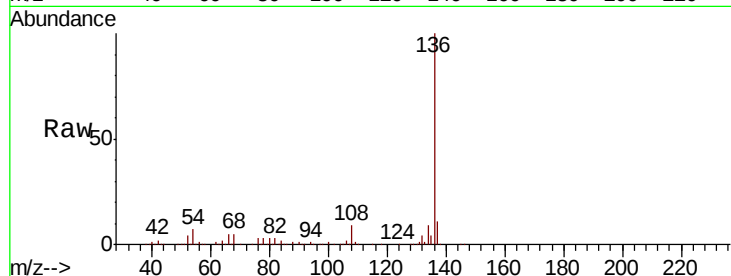




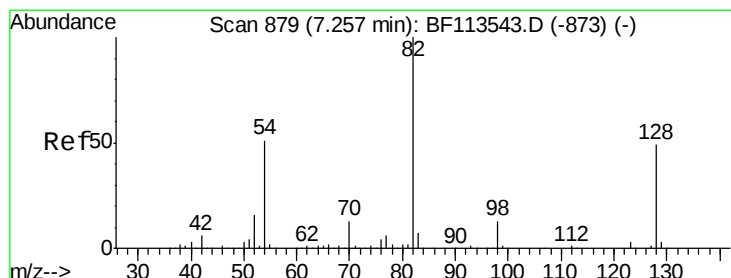
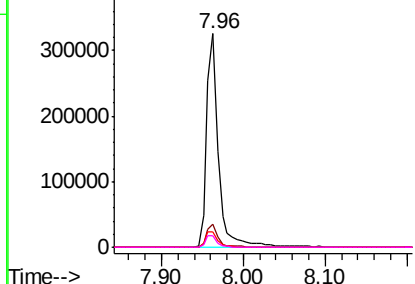
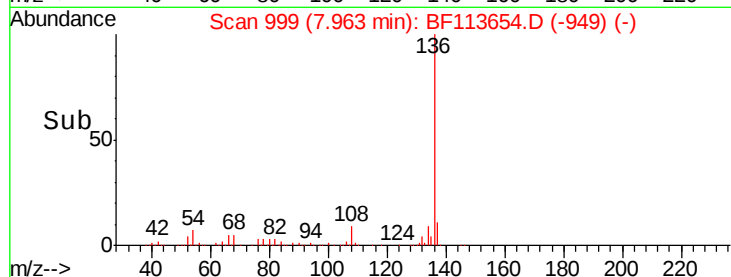
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.96 min Scan# 999  
Delta R.T. -0.01 min  
Lab File: BF113654.D  
Acq: 9 Apr 2019 10:53

Instrument :  
BNA\_M  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 330520      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.6  | 8.9 13.3    |
| 54          | 7.5   | 7.0 10.6    |
| 68          | 5.3   | 4.8 7.2     |

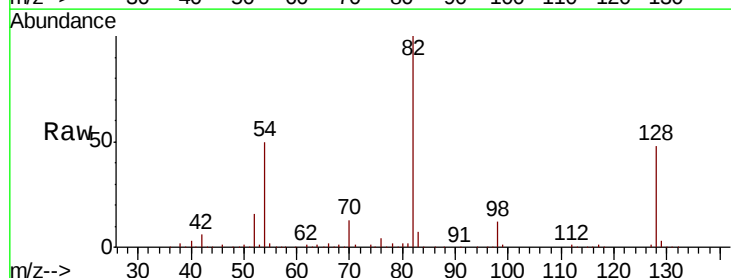


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

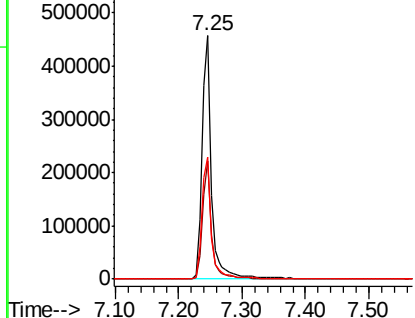
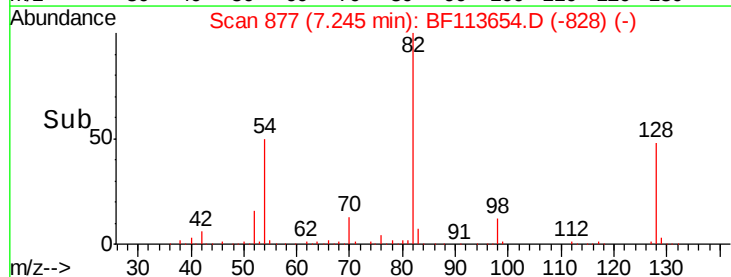


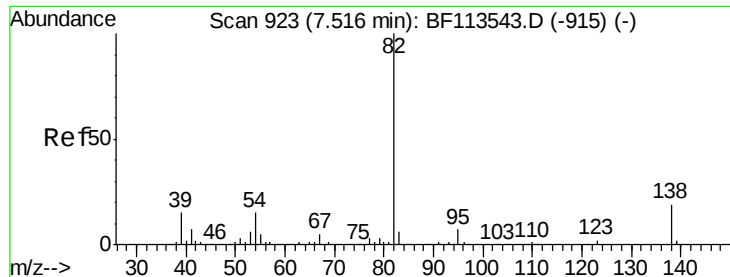
#23  
Nitrobenzene-d5  
Concen: 82.319 ng  
RT: 7.25 min Scan# 877  
Delta R.T. -0.01 min  
Lab File: BF113654.D  
Acq: 9 Apr 2019 10:53

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 464497      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 48.3  | 36.5 54.7   |
| 54          | 50.0  | 42.2 63.2   |



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: 42.733 ng

RT: 7.25 min Scan# 877

Delta R.T. -0.27 min

Lab File: BF113654.D

Acq: 9 Apr 2019 10:53

Instrument :

BNA\_M

ClientSampled :

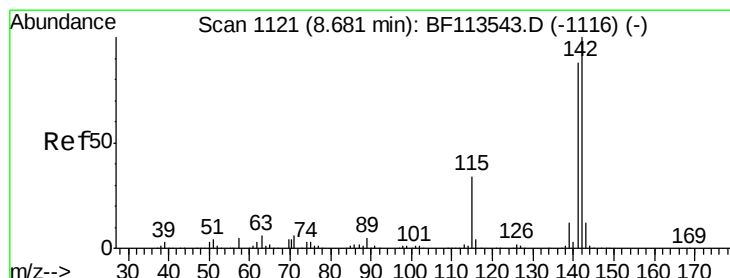
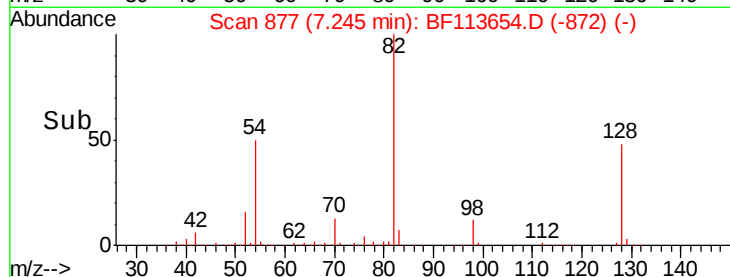
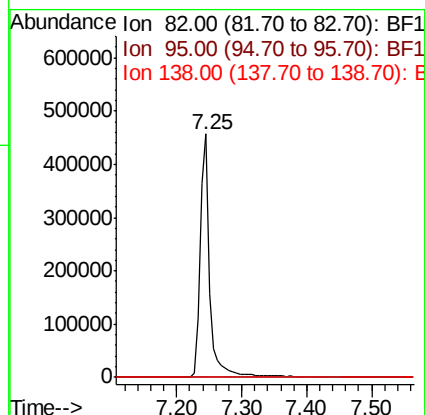
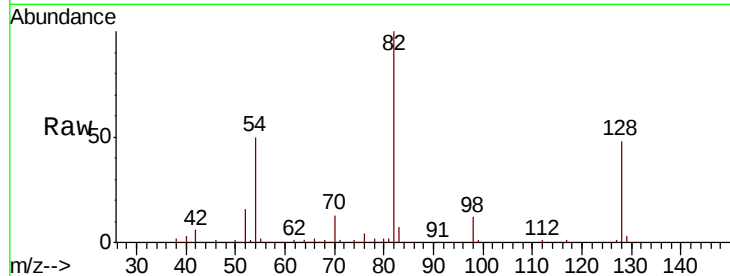
Tot Ion: 82 Resp: 464495

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

138 0.0 15.2 22.8#



#37

2-Methylnaphthalene

Concen: 2.051 ng

RT: 8.67 min Scan# 1120

Delta R.T. -0.01 min

Lab File: BF113654.D

Acq: 9 Apr 2019 10:53

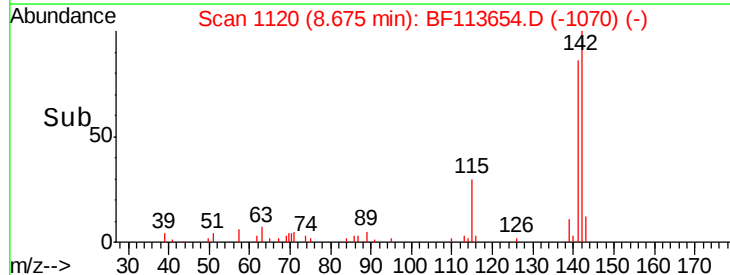
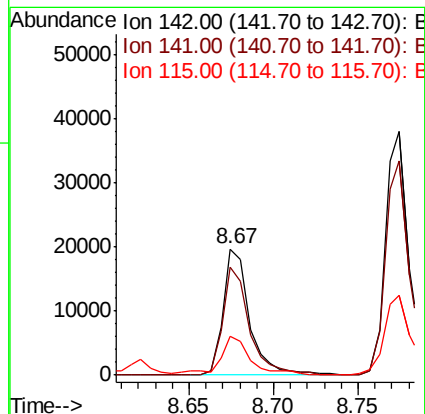
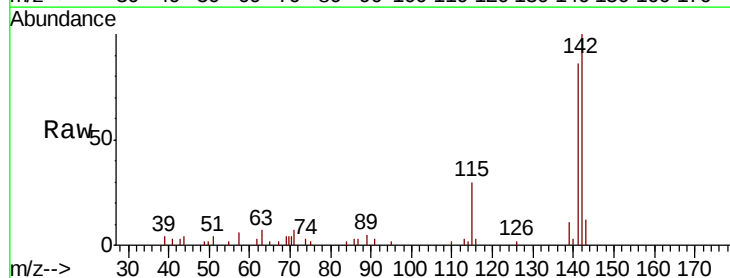
Tgt Ion: 142 Resp: 21607

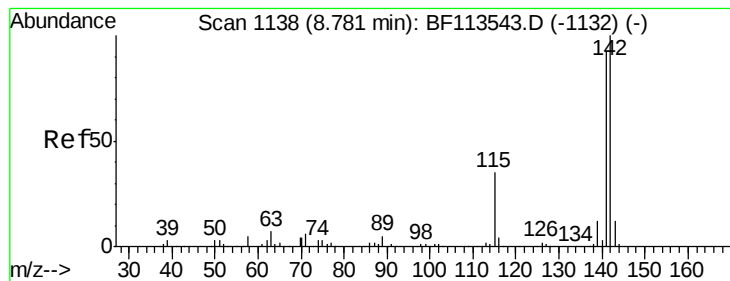
Ion Ratio Lower Upper

142 100

141 85.7 71.0 106.6

115 30.4 26.6 39.8





#38

1-Methylnaphthalene

Concen: 3.773 ng

RT: 8.77 min Scan# 1137

Delta R.T. -0.01 min

Lab File: BF113654.D

Acq: 9 Apr 2019 10:53

Instrument :

BNA\_M

ClientSampleId :

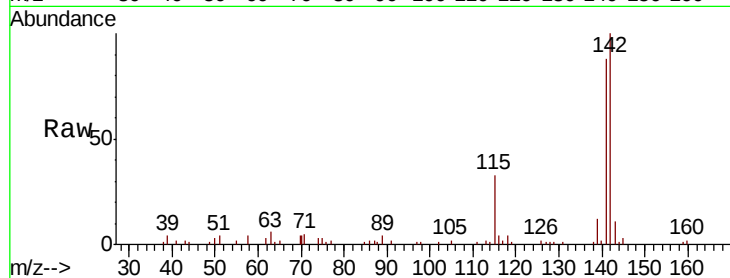
Tot Ion:142 Resp: 38318

Ion Ratio Lower Upper

142 100

141 88.2 73.2 109.8

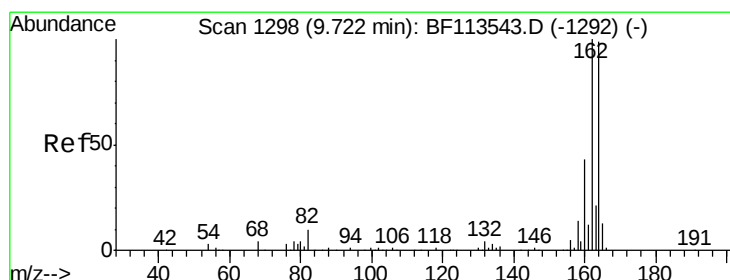
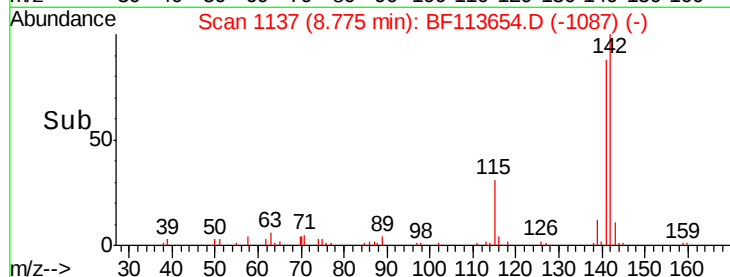
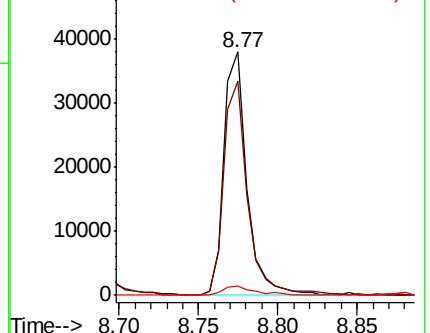
116 3.7 3.0 4.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF113654.D

Acq: 9 Apr 2019 10:53

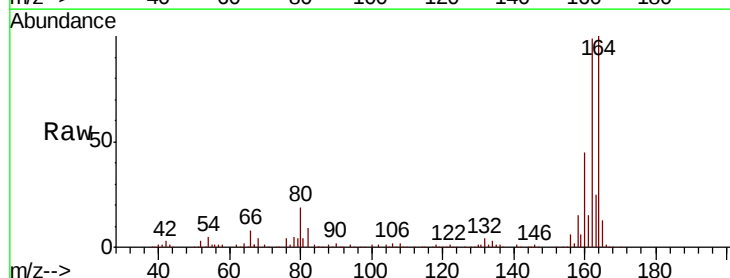
Tgt Ion:164 Resp: 164839

Ion Ratio Lower Upper

164 100

162 99.1 81.8 122.6

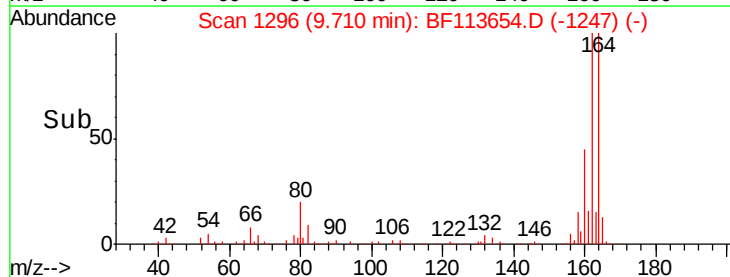
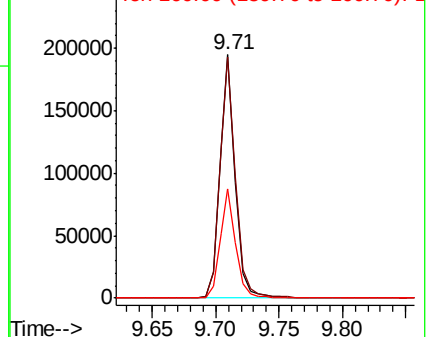
160 45.1 36.4 54.6

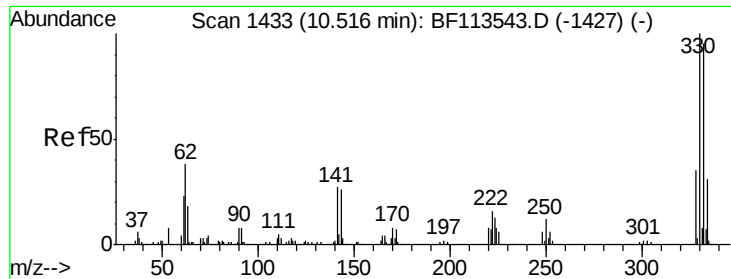


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

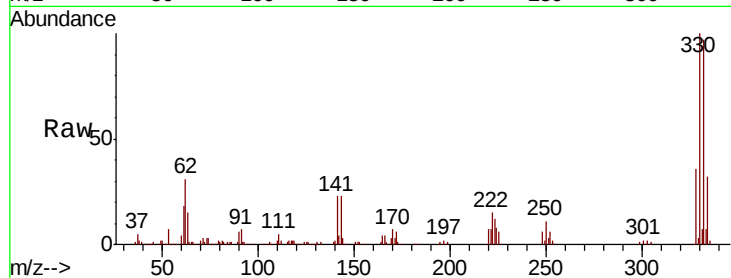




#42  
 2,4,6-Tribromophenol  
 Concen: 138.569 ng  
 RT: 10.50 min Scan# 1431  
 Delta R.T. -0.01 min  
 Lab File: BF113654.D  
 Acq: 9 Apr 2019 10:53

Instrument :  
 BNA\_M  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 77.8  | 116.6 |
| 141     | 27.8  | 22.7  | 34.1  |

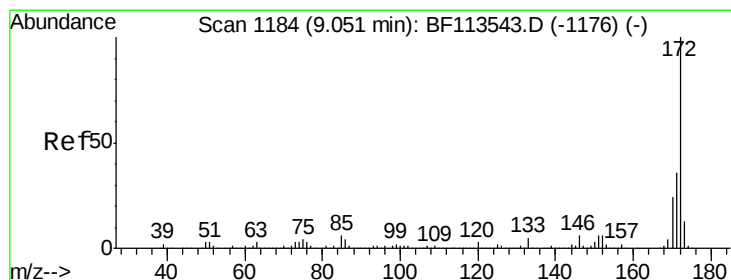
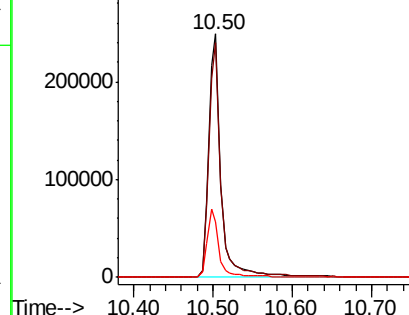
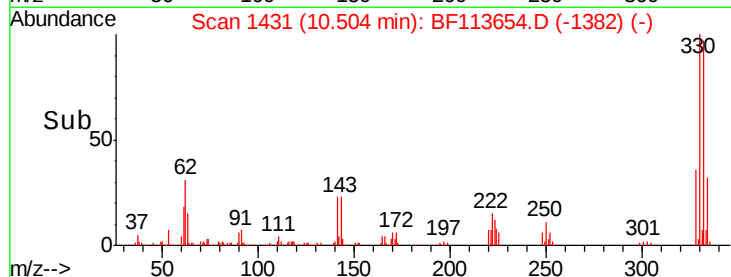


Abundance

Ion 329.80 (329.50 to 330.50): E

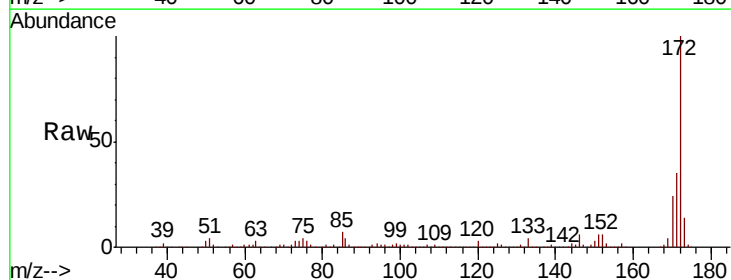
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 92.963 ng  
 RT: 9.03 min Scan# 1181  
 Delta R.T. -0.02 min  
 Lab File: BF113654.D  
 Acq: 9 Apr 2019 10:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 29.0  | 43.6  |
| 170     | 23.7  | 19.5  | 29.3  |

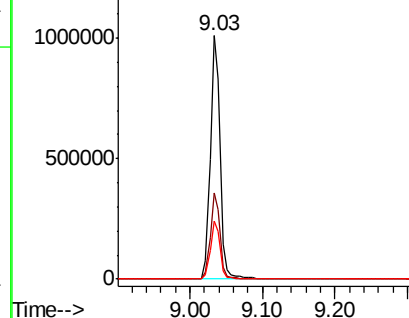
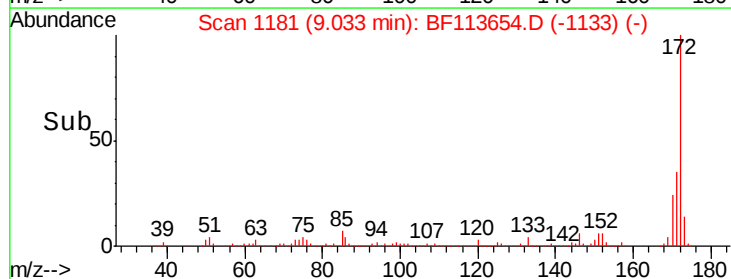


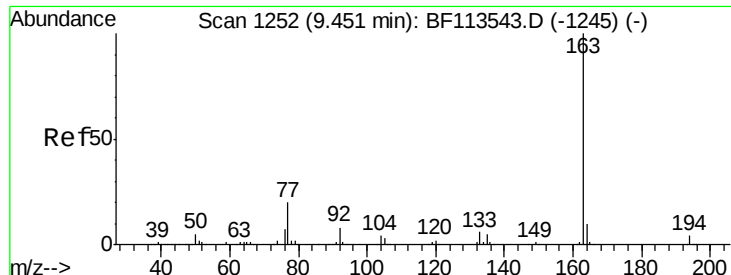
Abundance

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

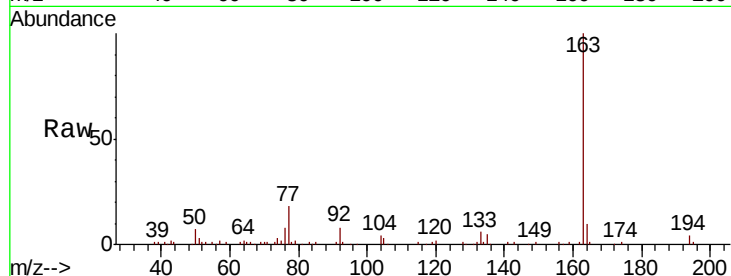




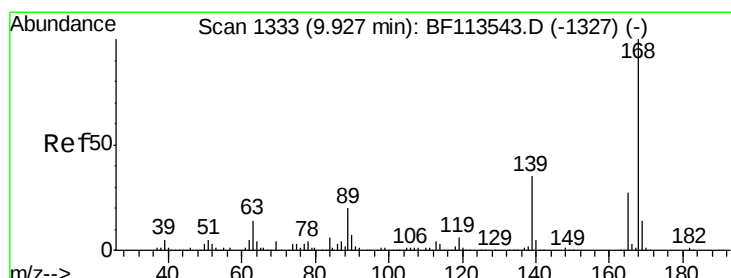
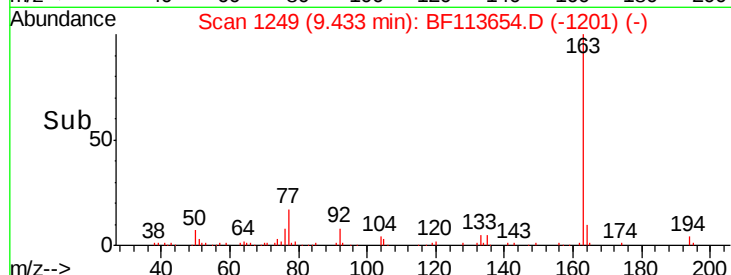
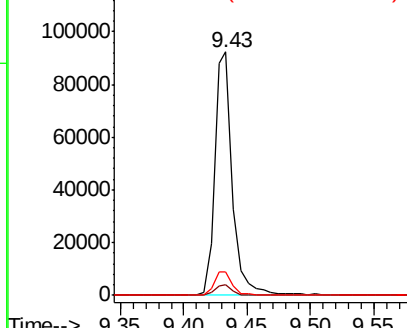
#50  
Dimethylphthalate  
Concen: 7.473 ng  
RT: 9.43 min Scan# 1249  
Delta R.T. -0.02 min  
Lab File: BF113654.D  
Acq: 9 Apr 2019 10:53

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:163 Resp: 90804  
Ion Ratio Lower Upper  
163 100  
194 4.4 3.0 4.6  
164 9.8 8.1 12.1

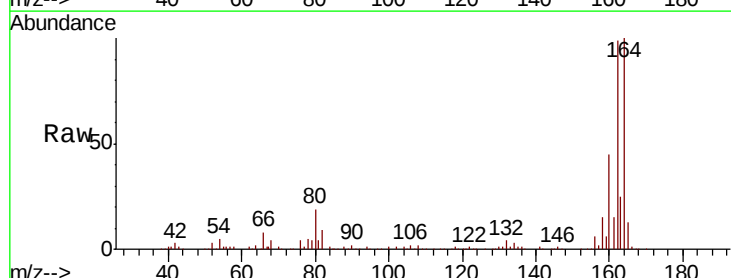


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

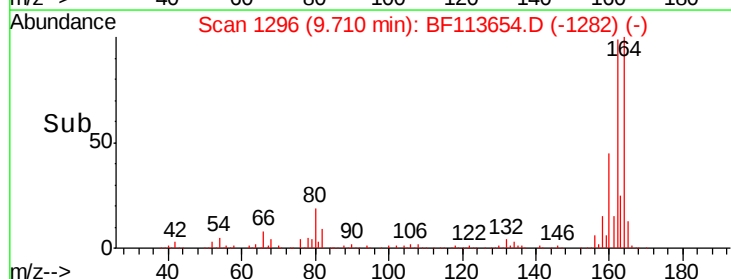
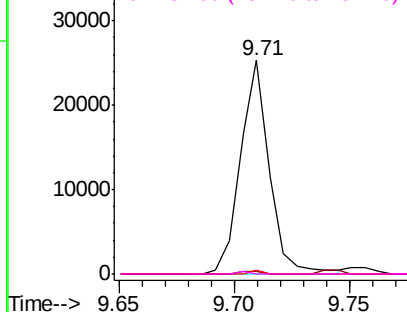


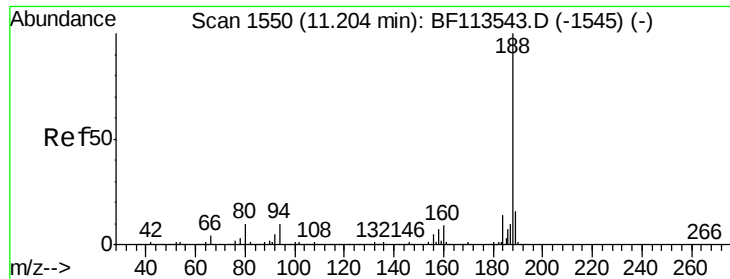
#57  
2,4-Dinitrotoluene  
Concen: 6.827 ng  
RT: 9.71 min Scan# 1296  
Delta R.T. -0.22 min  
Lab File: BF113654.D  
Acq: 9 Apr 2019 10:53

Tgt Ion:165 Resp: 22115  
Ion Ratio Lower Upper  
165 100  
63 1.3 37.5 56.3#  
89 1.6 57.4 86.2#  
182 0.0 2.0 3.0#



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.19 min Scan# 1548

Delta R.T. -0.01 min

Lab File: BF113654.D

Acq: 9 Apr 2019 10:53

Instrument :

BNA\_M

ClientSampled :

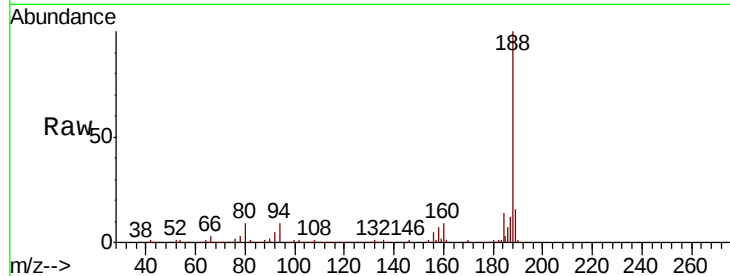
Tot Ion:188 Resp: 347257

Ion Ratio Lower Upper

188 100

94 8.8 7.0 10.6

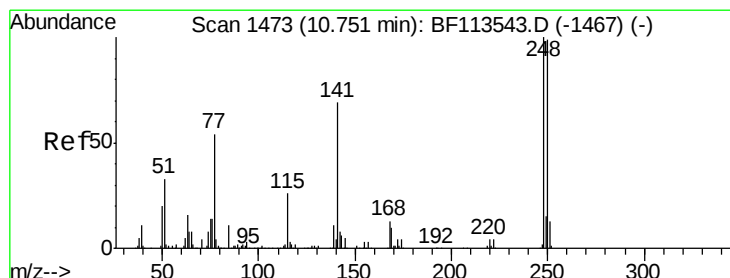
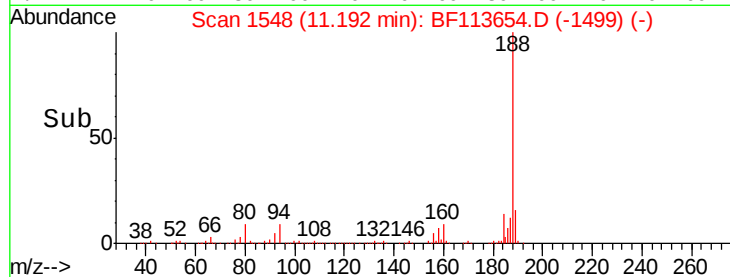
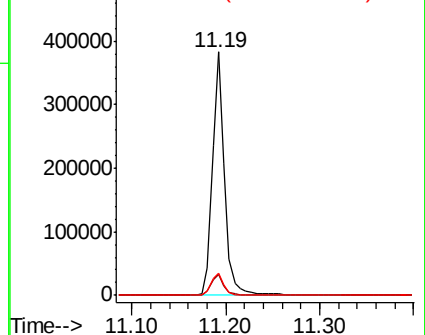
80 9.2 7.7 11.5



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



#67

4-Bromophenyl-phenylether

Concen: 3.949 ng

RT: 10.50 min Scan# 1431

Delta R.T. -0.25 min

Lab File: BF113654.D

Acq: 9 Apr 2019 10:53

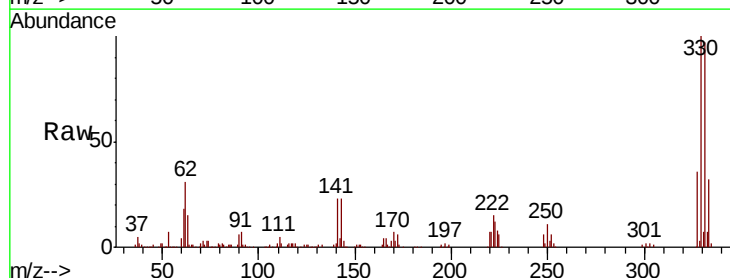
Tgt Ion:248 Resp: 15380

Ion Ratio Lower Upper

248 100

250 194.2 78.3 117.5#

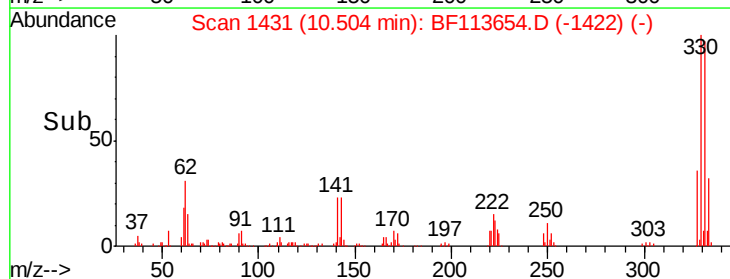
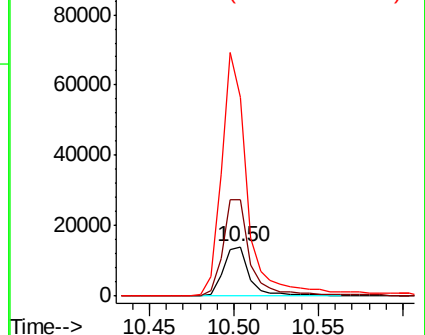
141 400.8 56.2 84.4#

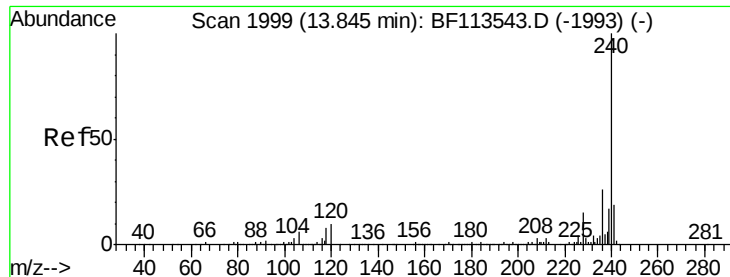


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.02 min

Lab File: BF113654.D

Acq: 9 Apr 2019 10:53

Instrument :

BNA\_M

ClientSampleId :

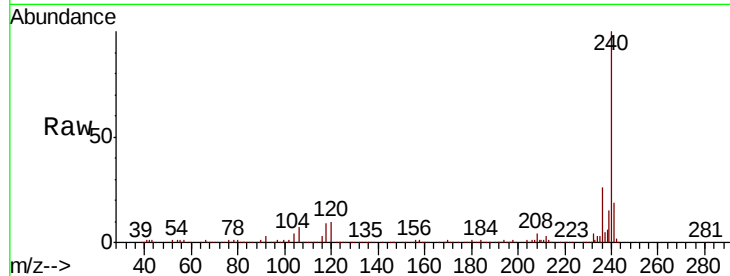
Tot Ion:240 Resp: 344996

Ion Ratio Lower Upper

240 100

120 9.7 8.8 13.2

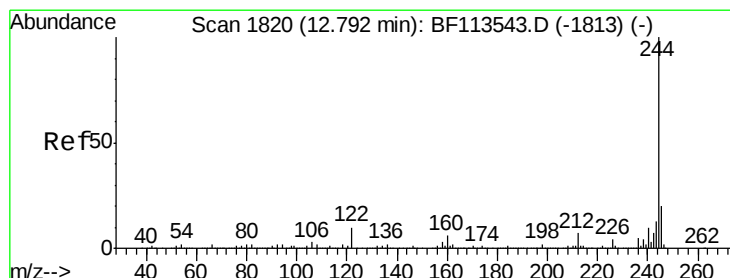
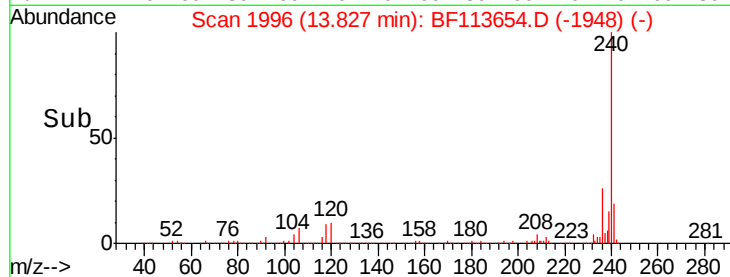
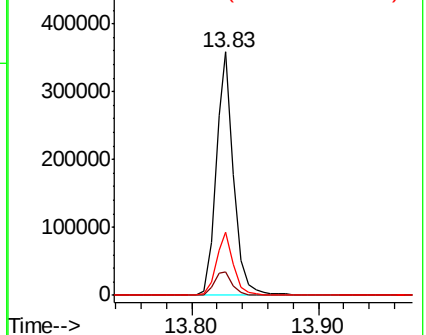
236 25.9 20.9 31.3



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



#79

Terphenyl-d14

Concen: 72.714 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.02 min

Lab File: BF113654.D

Acq: 9 Apr 2019 10:53

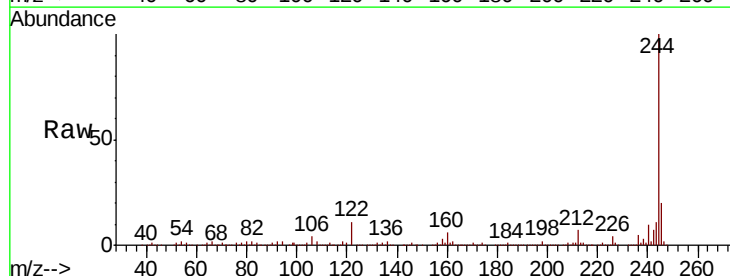
Tgt Ion:244 Resp: 1232120

Ion Ratio Lower Upper

244 100

212 6.7 5.5 8.3

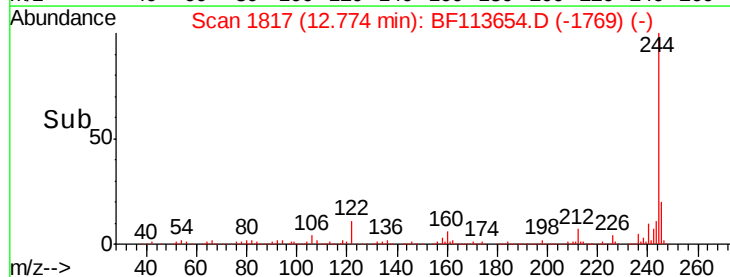
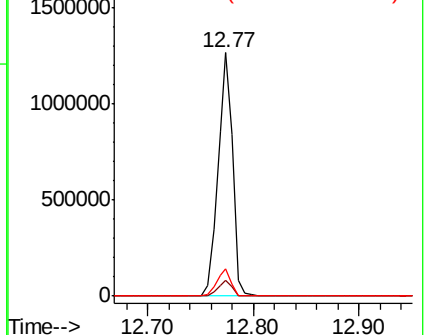
122 11.1 8.6 13.0

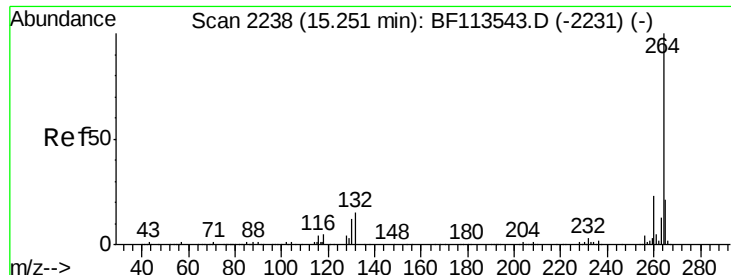


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.23 min Scan# 2235  
Delta R.T. -0.02 min  
Lab File: BF113654.D  
Acq: 9 Apr 2019 10:53

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.1  | 28.7  |
| 265     | 21.5  | 17.1  | 25.7  |

