

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\  
 Data File : BF097198.D  
 Acq On : 29 Jul 2017 12:19  
 Operator : SJ/JU  
 Sample : I4471-08RE  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-FB-7-26-17

Quant Time: Jul 31 01:02:30 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

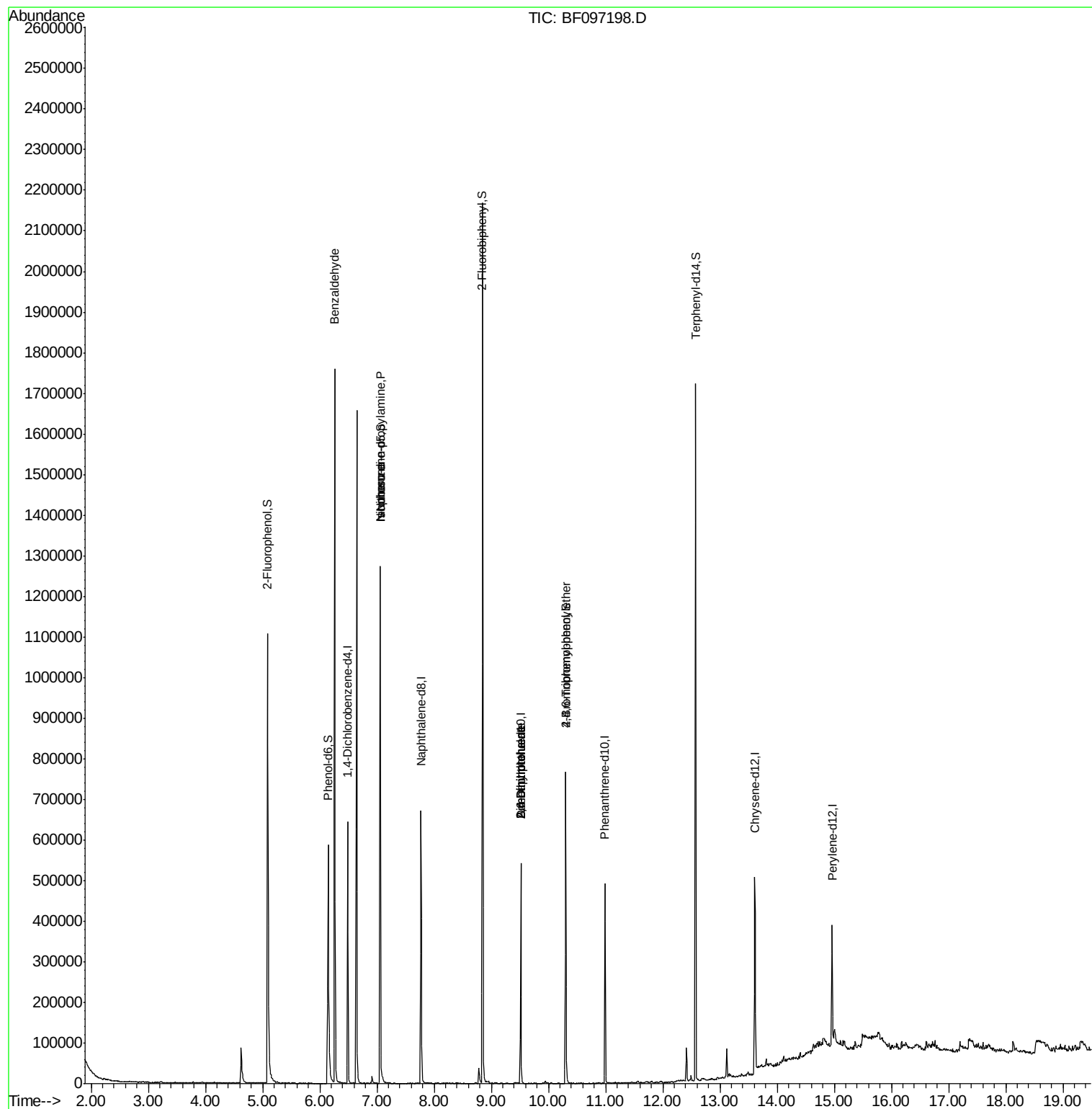
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.49  | 152  | 87134    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.77  | 136  | 287519   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.52  | 164  | 105453   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 10.99 | 188  | 173665   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.61 | 240  | 160927   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 14.96 | 264  | 111413   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.09  | 112  | 351108   | 60.74  | ng    | -0.01    |
| 7) Phenol-d6                   | 6.15  | 99   | 218111   | 33.05  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.06  | 82   | 408922   | 83.43  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.30 | 330  | 91120    | 109.36 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 8.85  | 172  | 720348   | 115.93 | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.57 | 244  | 518927   | 65.75  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.26  | 77   | 10127    | 2.59   | ng    | # 72     |
| 19) n-Nitroso-di-n-propylamine | 7.06  | 70   | 54291    | 12.50  | ng    | # 88     |
| 25) Isophorone                 | 7.06  | 82   | 404866   | 42.18  | ng    | # 67     |
| 49) Dimethylphthalate          | 9.52  | 163  | 31244    | 3.90   | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.52  | 165  | 13180    | 7.76   | ng    | # 31     |
| 56) 2,4-Dinitrotoluene         | 9.52  | 165  | 13180    | 6.75   | ng    | # 31     |
| 66) 4-Bromophenyl-phenylether  | 10.30 | 248  | 6054     | 3.49   | ng    | # 1      |

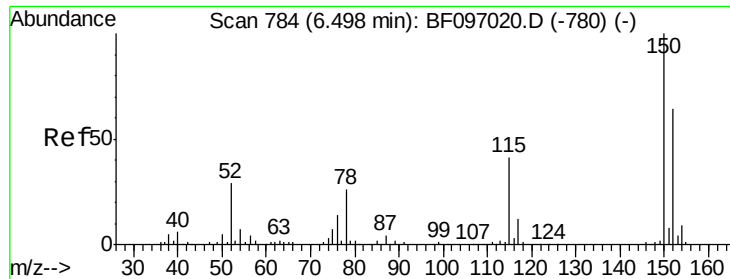
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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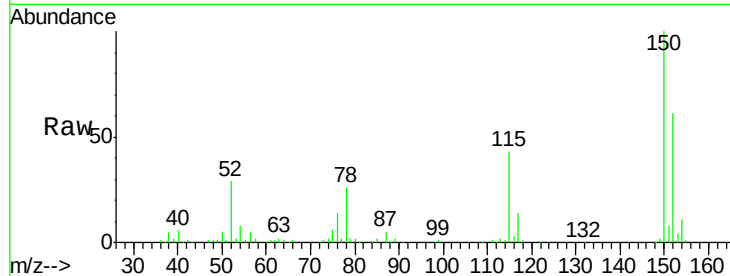


#1

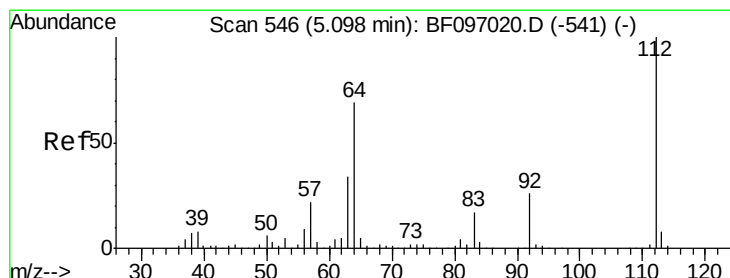
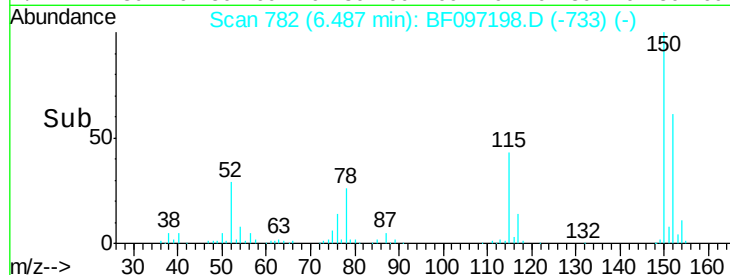
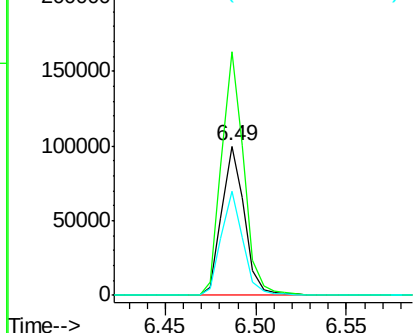
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.49 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BF097198.D  
Acq: 29 Jul 2017 12:19

Instrument :  
BNA\_F  
ClientSampleId :  
E2-FB-7-26-17

Tot Ion:152 Resp: 87134  
Ion Ratio Lower Upper  
152 100  
150 163.2 126.2 189.2  
115 69.9 52.2 78.2



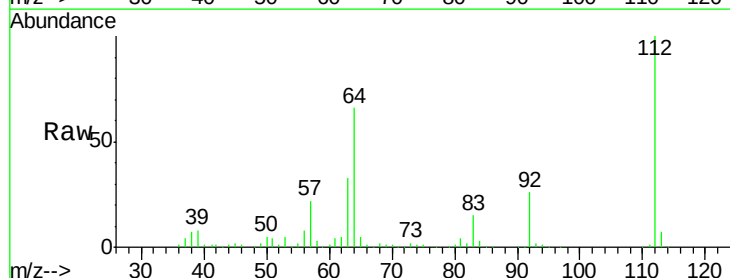
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



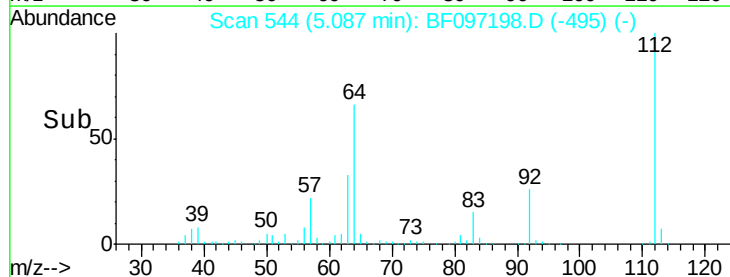
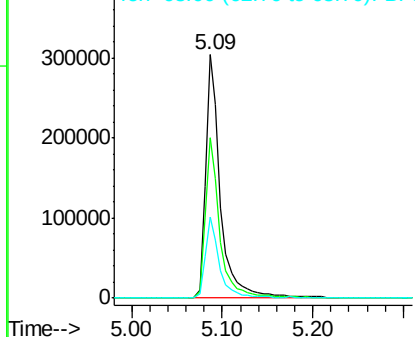
#5

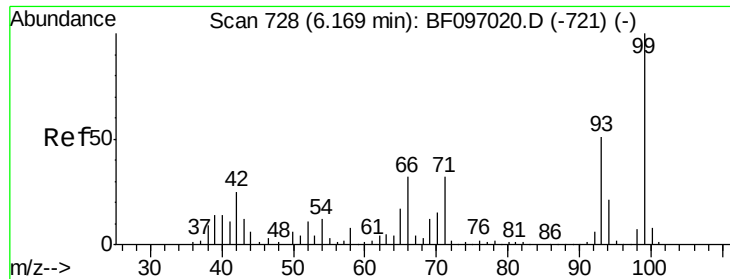
2-Fluorophenol  
Concen: 60.74 ng  
RT: 5.09 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: BF097198.D  
Acq: 29 Jul 2017 12:19

Tgt Ion:112 Resp: 351108  
Ion Ratio Lower Upper  
112 100  
64 65.9 46.0 69.0  
63 33.3 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 33.05 ng

RT: 6.15 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF097198.D

Acq: 29 Jul 2017 12:19

Instrument :

BNA\_F

ClientSampleId :

E2-FB-7-26-17

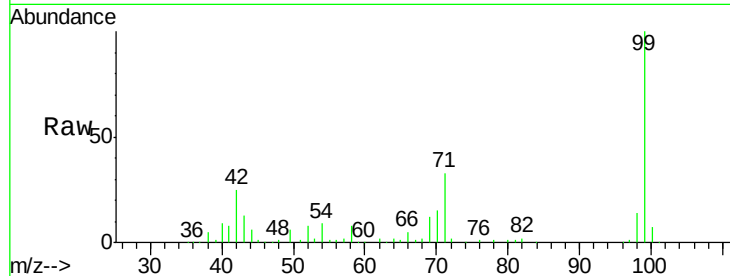
Tot Ion: 99 Resp: 218111

Ion Ratio Lower Upper

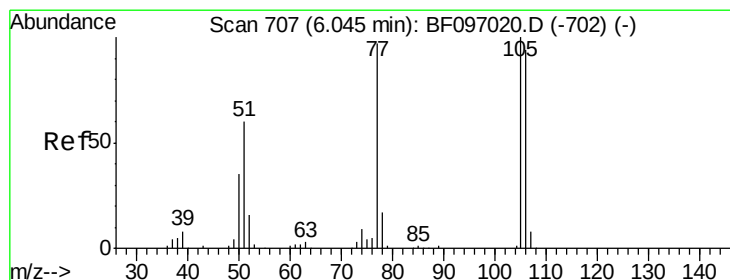
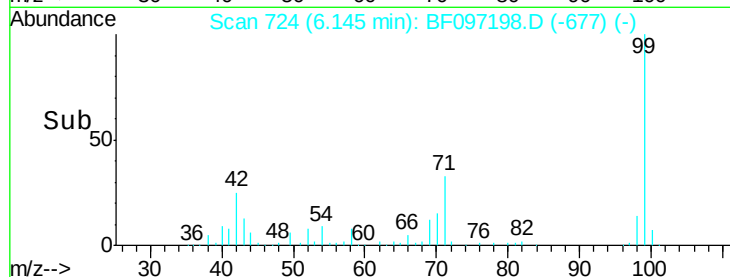
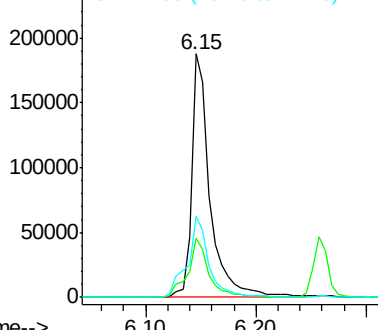
99 100

42 24.6 13.5 20.3#

71 33.1 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 2.59 ng

RT: 6.26 min Scan# 743

Delta R.T. 0.21 min

Lab File: BF097198.D

Acq: 29 Jul 2017 12:19

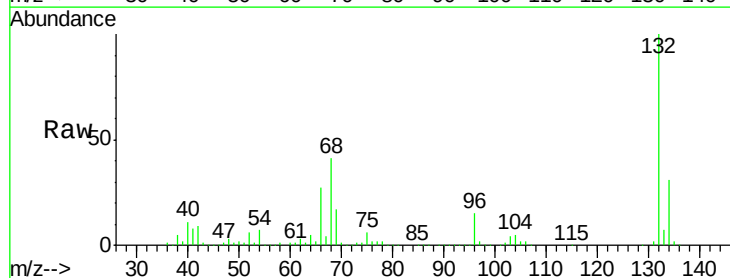
Tgt Ion: 77 Resp: 10127

Ion Ratio Lower Upper

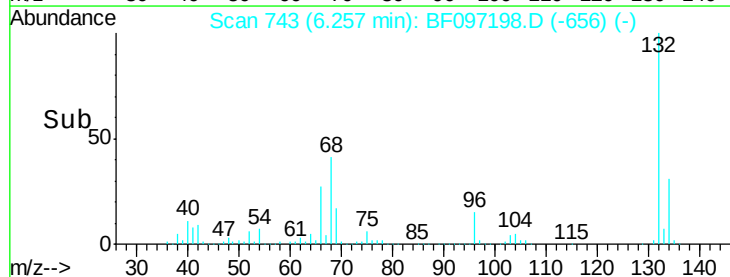
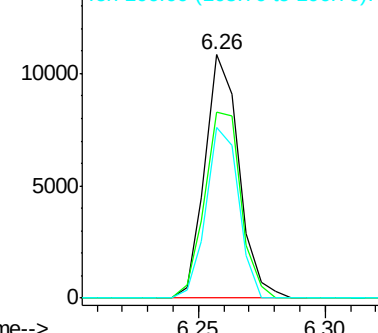
77 100

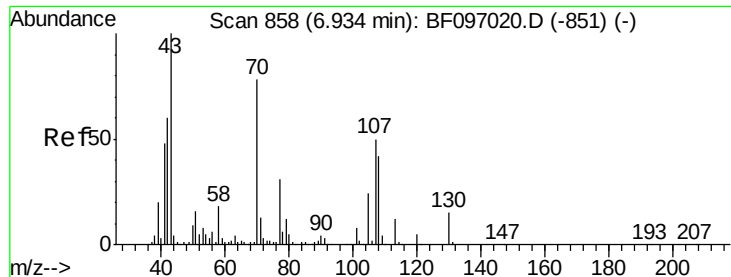
105 76.2 83.8 123.8#

106 70.3 79.1 119.1#



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E

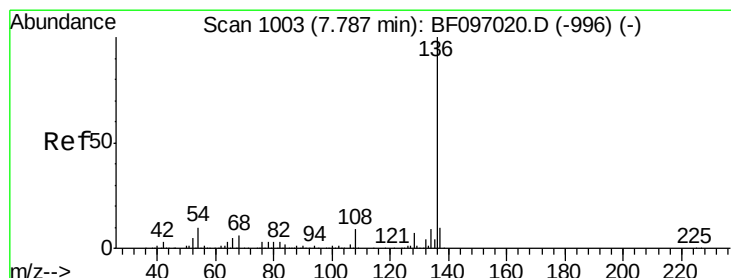
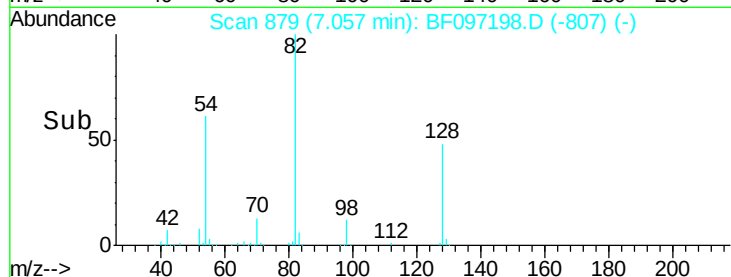
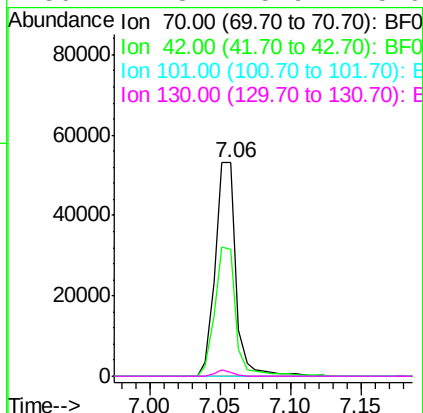
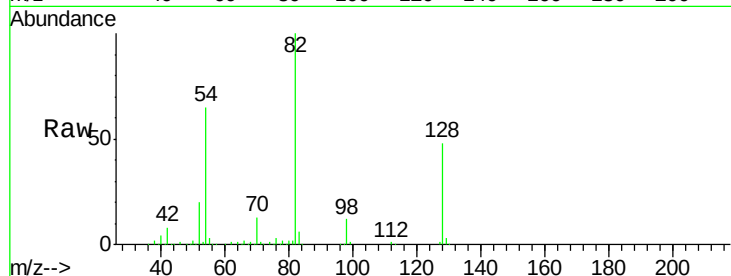




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.50 ng  
RT: 7.06 min Scan# 879  
Delta R.T. 0.12 min  
Lab File: BF097198.D  
Acq: 29 Jul 2017 12:19

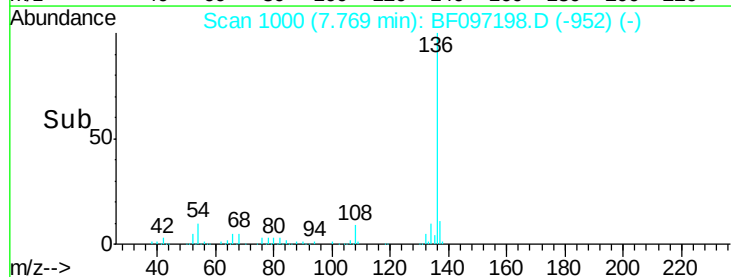
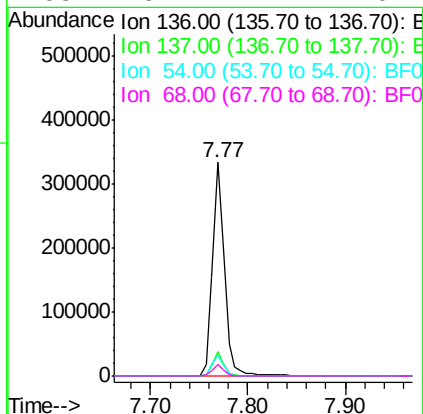
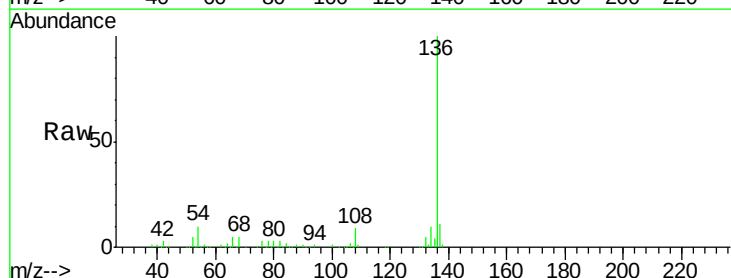
Instrument :  
BNA\_F  
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E2-FB-7-26-17

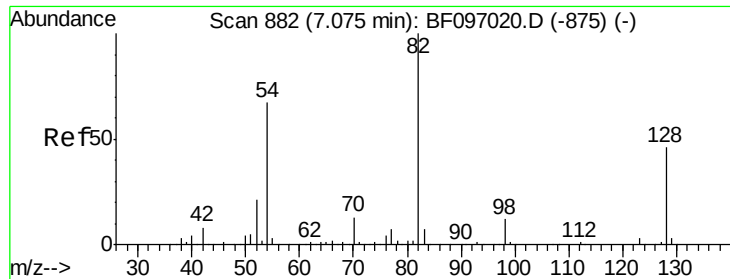
Tot Ion: 70 Resp: 54291  
Ion Ratio Lower Upper  
70 100  
42 59.3 47.2 70.8  
101 0.0 7.2 10.8#  
130 1.8 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.77 min Scan# 1000  
Delta R.T. -0.02 min  
Lab File: BF097198.D  
Acq: 29 Jul 2017 12:19

Tgt Ion:136 Resp: 287519  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.5 12.7  
54 9.8 4.9 7.3#  
68 5.1 4.1 6.1

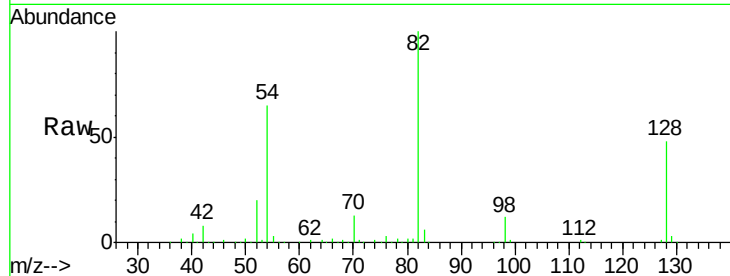




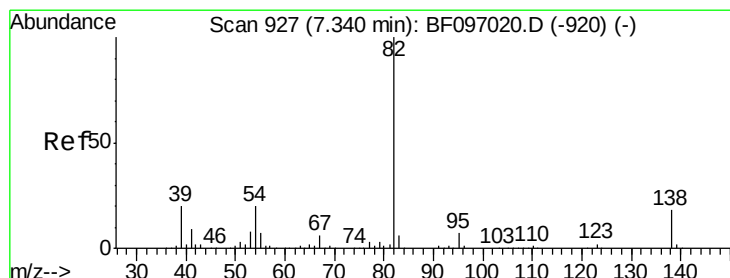
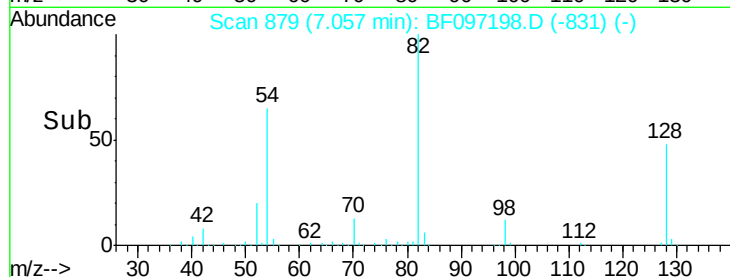
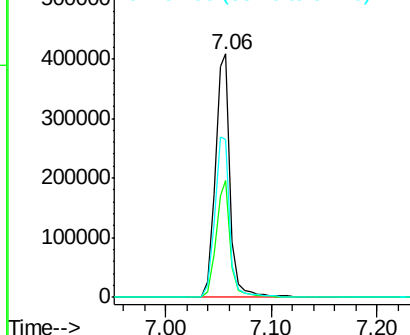
#23  
 Nitrobenzene-d5  
 Concen: 83.43 ng  
 RT: 7.06 min Scan# 879  
 Delta R.T. -0.02 min  
 Lab File: BF097198.D  
 Acq: 29 Jul 2017 12:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-FB-7-26-17

Tot Ion: 82 Resp: 408922  
 Ion Ratio Lower Upper  
 82 100  
 128 47.9 34.0 51.0  
 54 64.7 42.2 63.2#

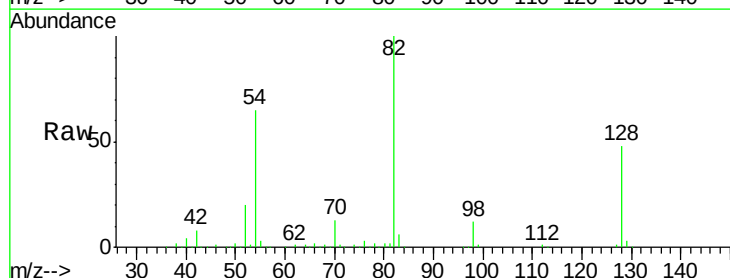


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

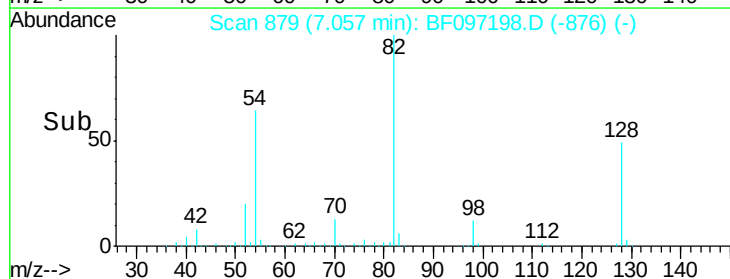
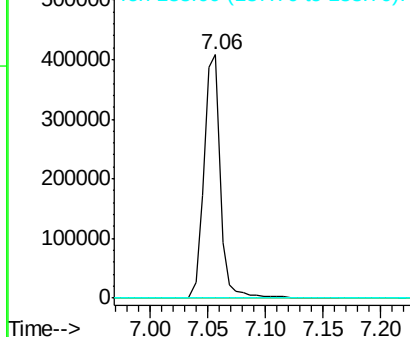


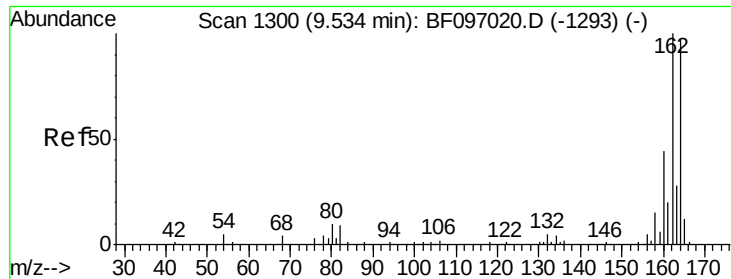
#25  
 Isophorone  
 Concen: 42.18 ng  
 RT: 7.06 min Scan# 879  
 Delta R.T. -0.28 min  
 Lab File: BF097198.D  
 Acq: 29 Jul 2017 12:19

Tgt Ion: 82 Resp: 404866  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.3 7.9#  
 138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 95.00 (94.70 to 95.70): BF0  
 Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF097198.D

Acq: 29 Jul 2017 12:19

Instrument :

BNA\_F

ClientSampleId :

E2-FB-7-26-17

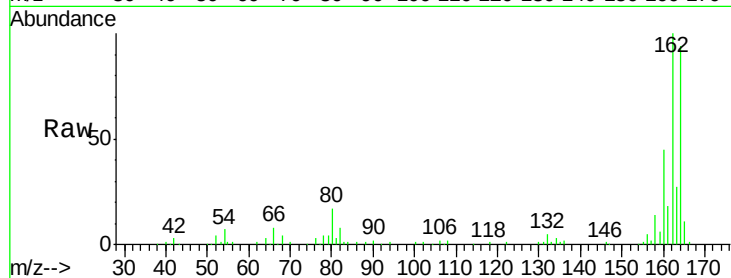
Tot Ion:164 Resp: 105453

Ion Ratio Lower Upper

164 100

162 106.0 82.6 123.8

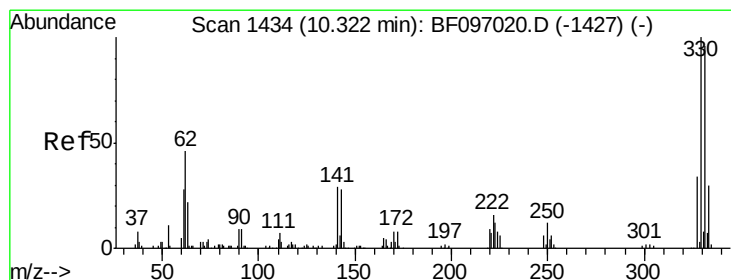
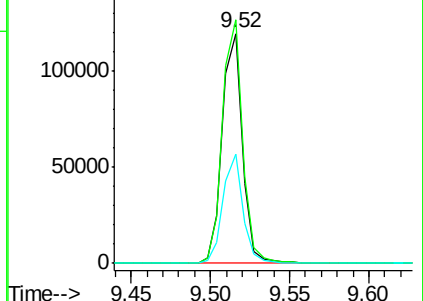
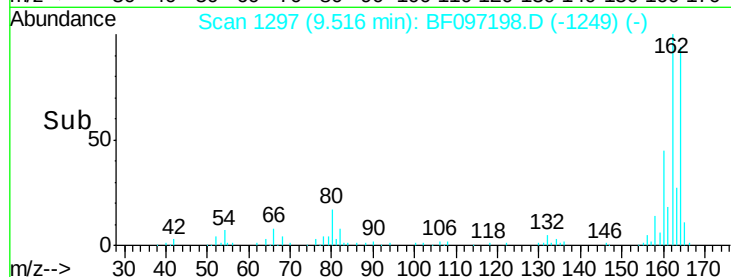
160 47.5 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 109.36 ng

RT: 10.30 min Scan# 1431

Delta R.T. -0.02 min

Lab File: BF097198.D

Acq: 29 Jul 2017 12:19

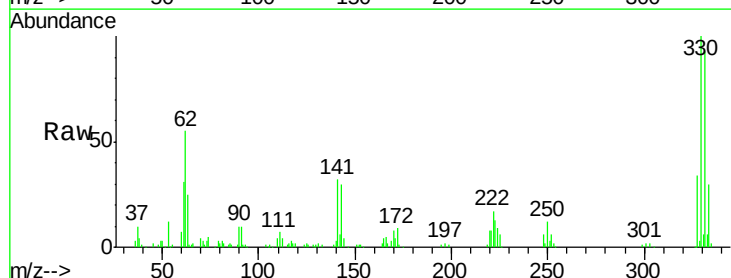
Tgt Ion:330 Resp: 91120

Ion Ratio Lower Upper

330 100

332 94.7 76.6 115.0

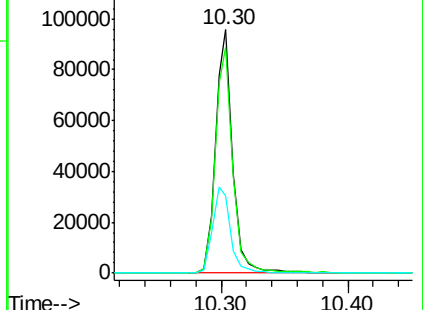
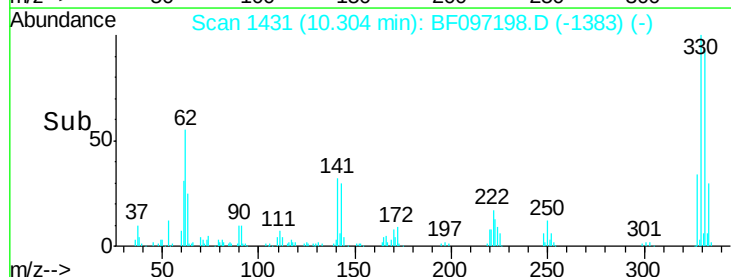
141 37.1 31.4 47.2

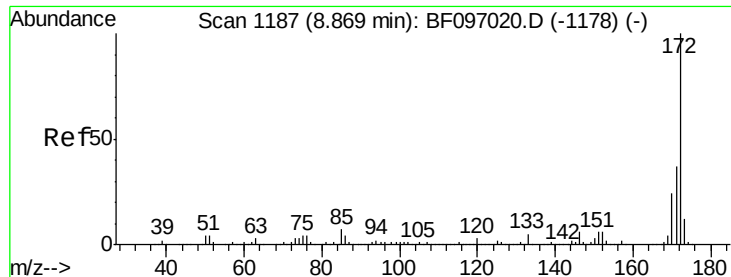


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

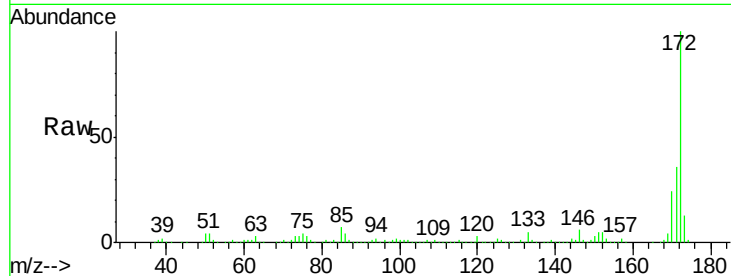




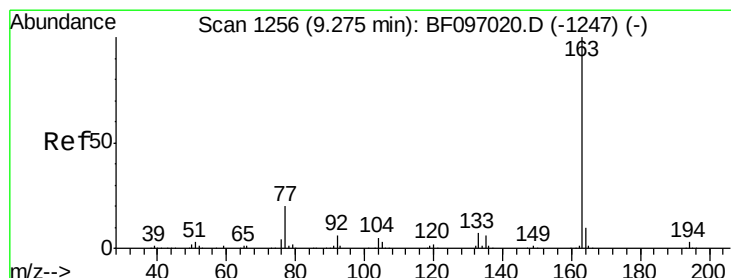
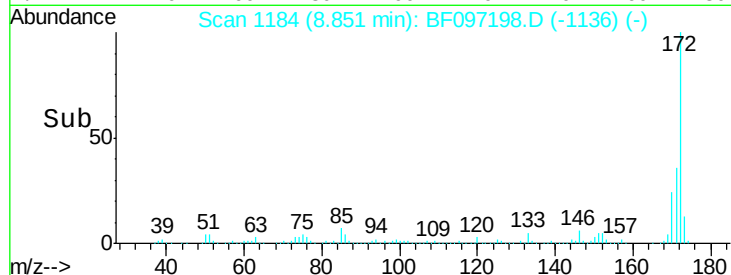
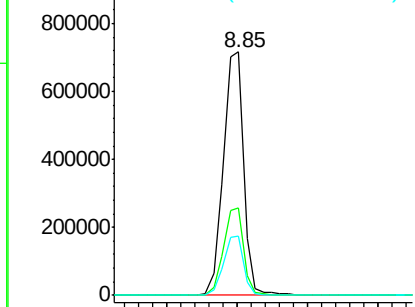
#44  
 2-Fluorobiphenyl  
 Concen: 115.93 ng  
 RT: 8.85 min Scan# 1184  
 Delta R.T. -0.02 min  
 Lab File: BF097198.D  
 Acq: 29 Jul 2017 12:19

Instrument :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.6  | 44.4  |
| 170     | 24.3  | 19.8  | 29.8  |

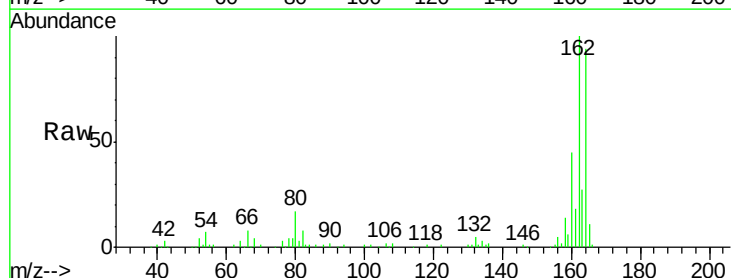


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

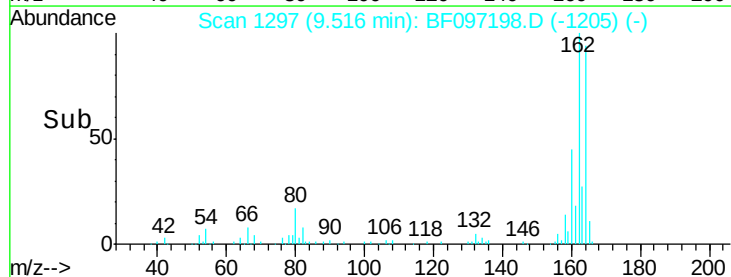
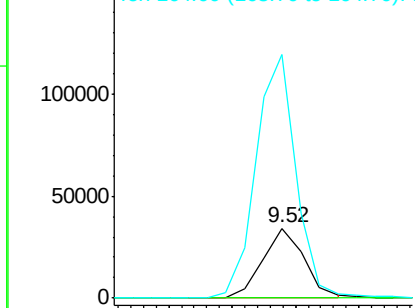


#49  
 Dimethylphthalate  
 Concen: 3.90 ng  
 RT: 9.52 min Scan# 1297  
 Delta R.T. 0.24 min  
 Lab File: BF097198.D  
 Acq: 29 Jul 2017 12:19

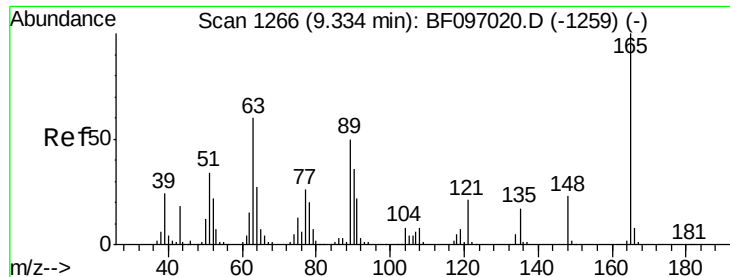
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 0.0   | 2.6   | 4.0#  |
| 164     | 346.9 | 8.4   | 12.6# |



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



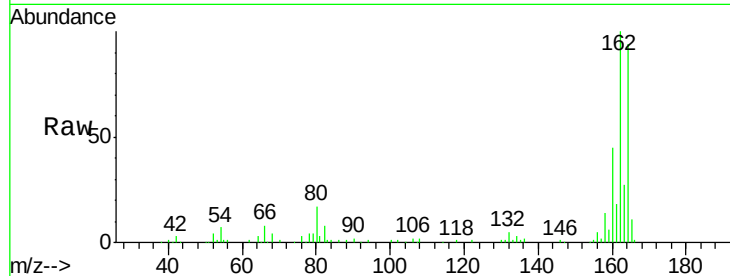




#50  
 2,6-Dinitrotoluene  
 Concen: 7.76 ng  
 RT: 9.52 min Scan# 1297  
 Delta R.T. 0.18 min  
 Lab File: BF097198.D  
 Acq: 29 Jul 2017 12:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-FB-7-26-17

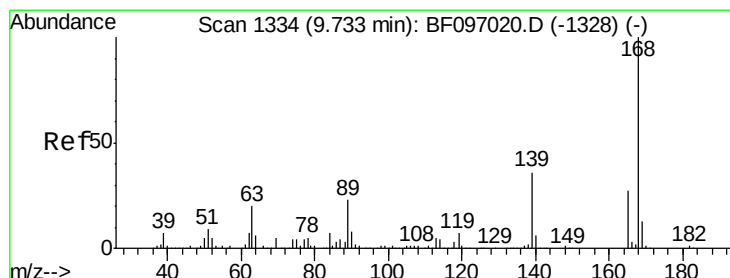
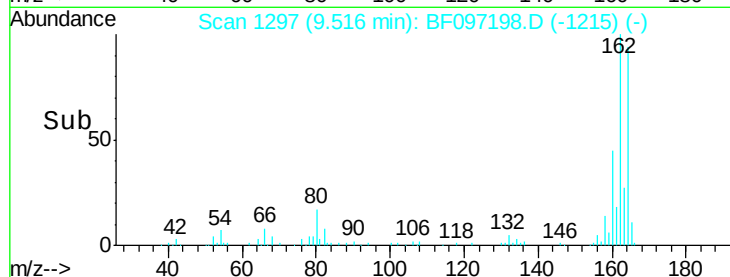
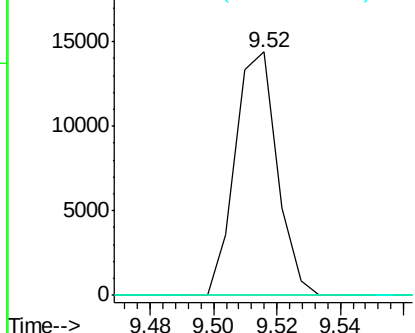
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.3  | 51.5# |
| 89      | 0.0   | 37.1  | 55.7# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56  
 2,4-Dinitrotoluene  
 Concen: 6.75 ng  
 RT: 9.52 min Scan# 1297  
 Delta R.T. -0.22 min  
 Lab File: BF097198.D  
 Acq: 29 Jul 2017 12:19

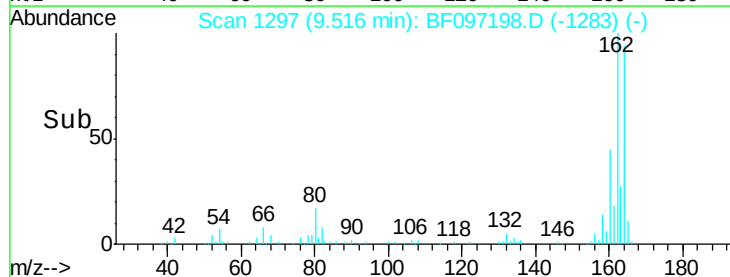
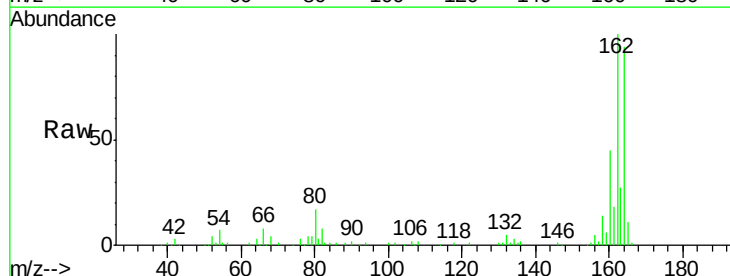
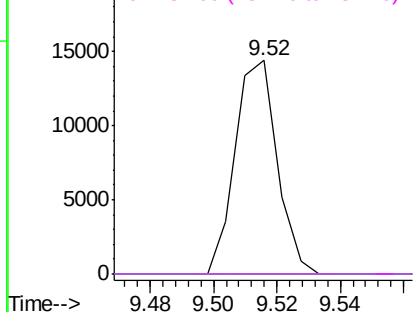
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 25.4  | 38.0# |
| 89      | 0.0   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

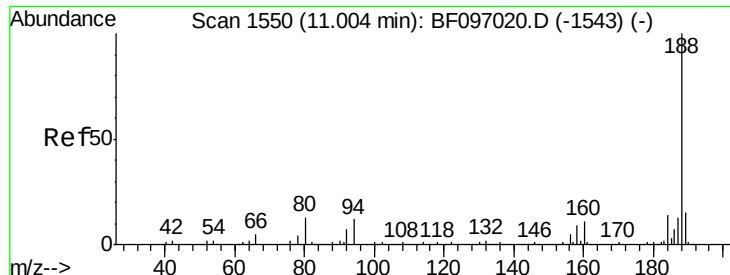
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

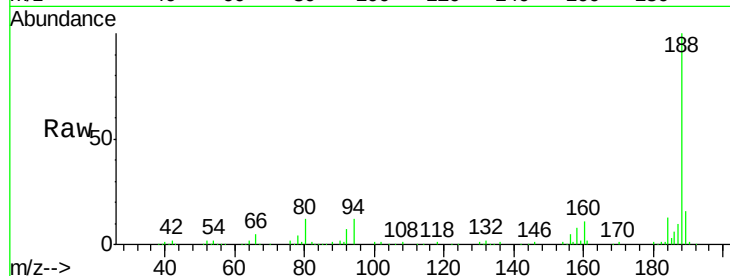




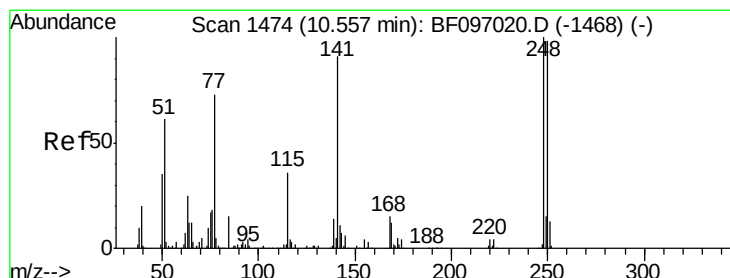
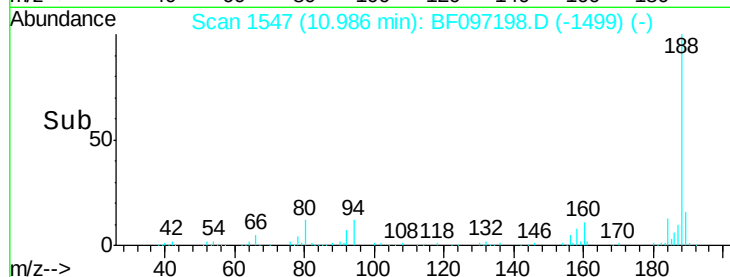
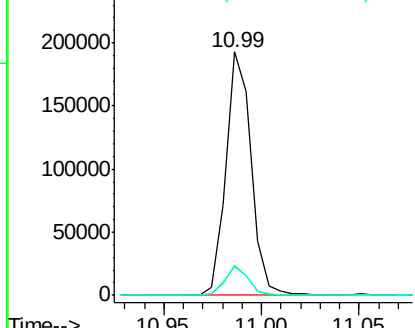
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 10.99 min Scan# 1547  
 Delta R.T. -0.02 min  
 Lab File: BF097198.D  
 Acq: 29 Jul 2017 12:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 E2-FB-7-26-17

Tot Ion:188 Resp: 173665  
 Ion Ratio Lower Upper  
 188 100  
 94 12.2 9.4 14.2  
 80 11.8 10.2 15.2

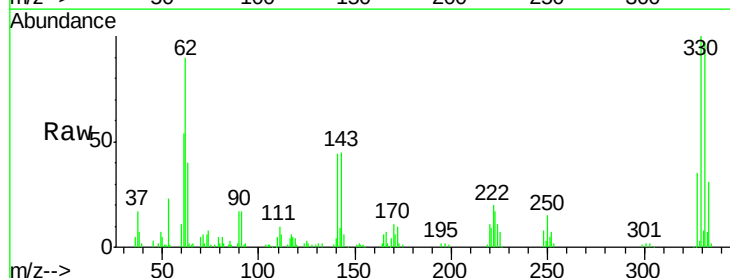


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

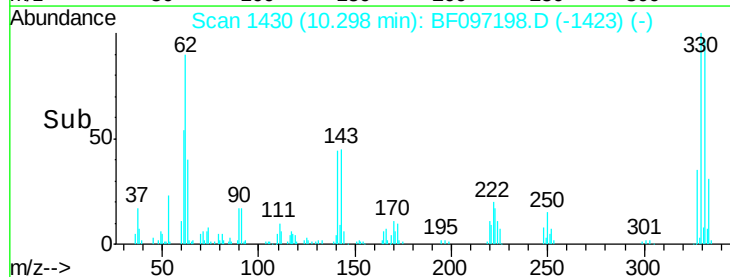
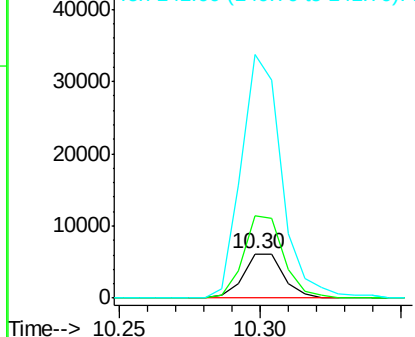


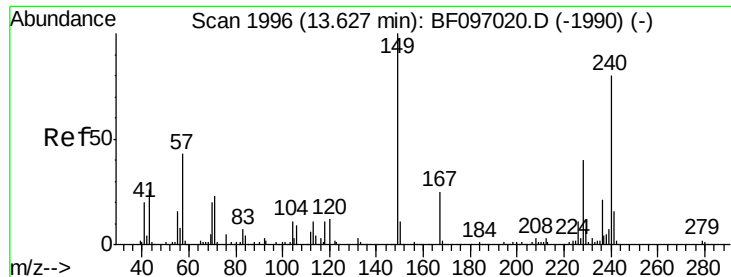
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.49 ng  
 RT: 10.30 min Scan# 1430  
 Delta R.T. -0.26 min  
 Lab File: BF097198.D  
 Acq: 29 Jul 2017 12:19

Tgt Ion:248 Resp: 6054  
 Ion Ratio Lower Upper  
 248 100  
 250 185.5 76.8 115.2#  
 141 548.0 68.6 103.0#



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: 13.61 min Scan# 1993

Delta R.T. -0.02 min

Lab File: BF097198.D

Acq: 29 Jul 2017 12:19

Instrument :

BNA\_F

ClientSampleId :

E2-FB-7-26-17

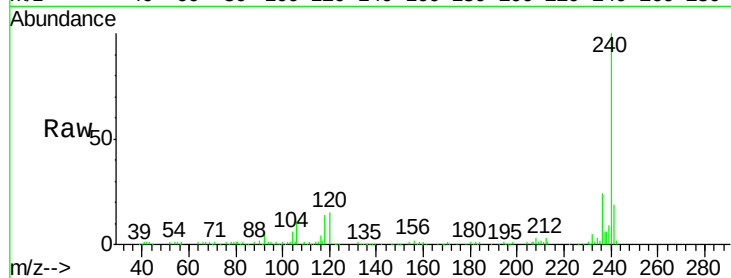
Tot Ion:240 Resp: 160927

Ion Ratio Lower Upper

240 100

120 14.8 5.8 8.8#

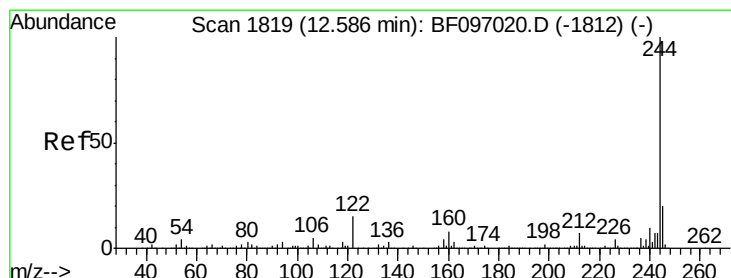
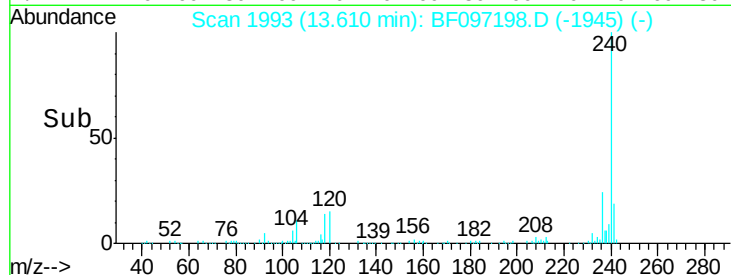
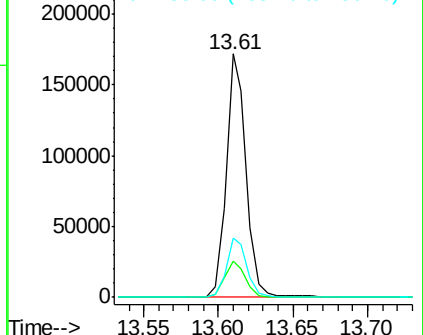
236 24.2 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 65.75 ng

RT: 12.57 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF097198.D

Acq: 29 Jul 2017 12:19

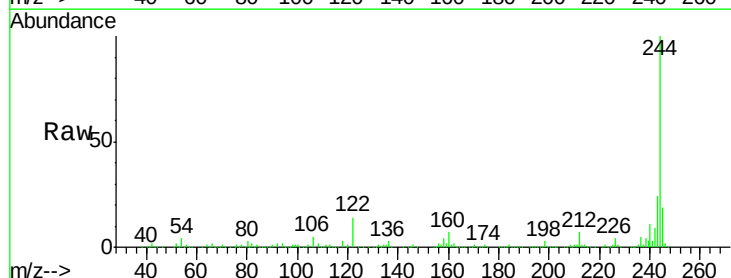
Tgt Ion:244 Resp: 518927

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

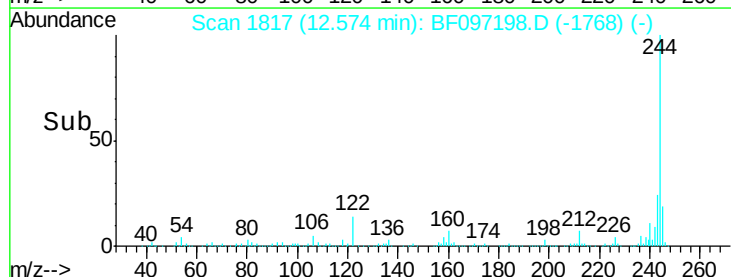
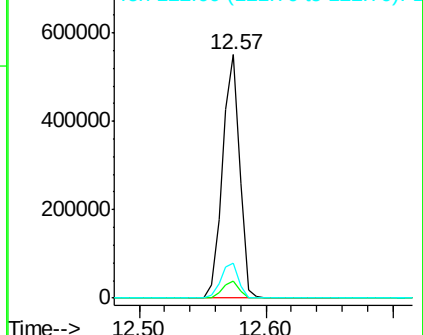
122 14.4 10.3 15.5

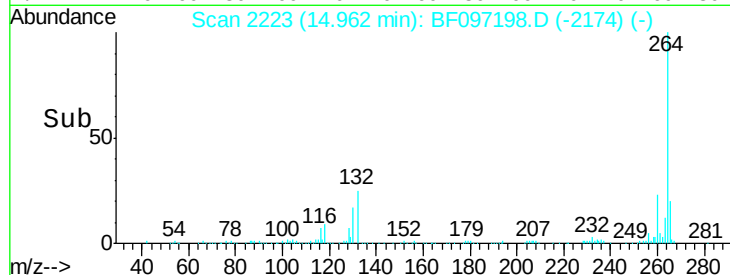
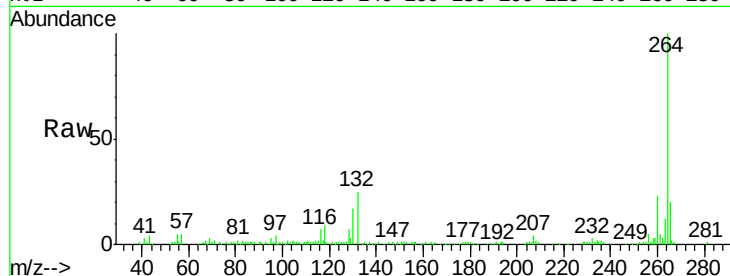
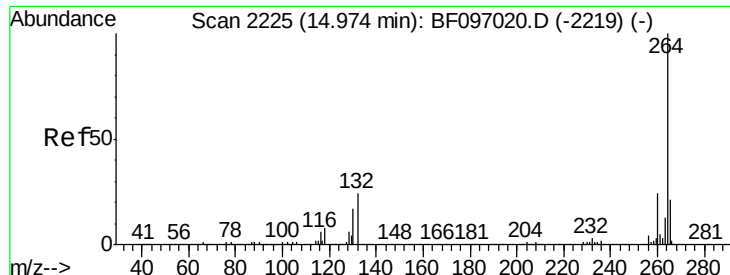


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 14.96 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: BF097198.D  
Acq: 29 Jul 2017 12:19

Instrument :  
BNA\_F  
ClientSampleId :  
E2-FB-7-26-17

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 111413 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.3  | 19.5  | 29.3   |
| 265      | 20.2  | 17.2  | 25.8   |

