

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091317\  
 Data File : BF098497.D  
 Acq On : 13 Sep 2017 18:49  
 Operator : SJ/JU  
 Sample : I5175-04  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 14 05:05:01 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 12 02:14:50 2017  
 Response via : Initial Calibration

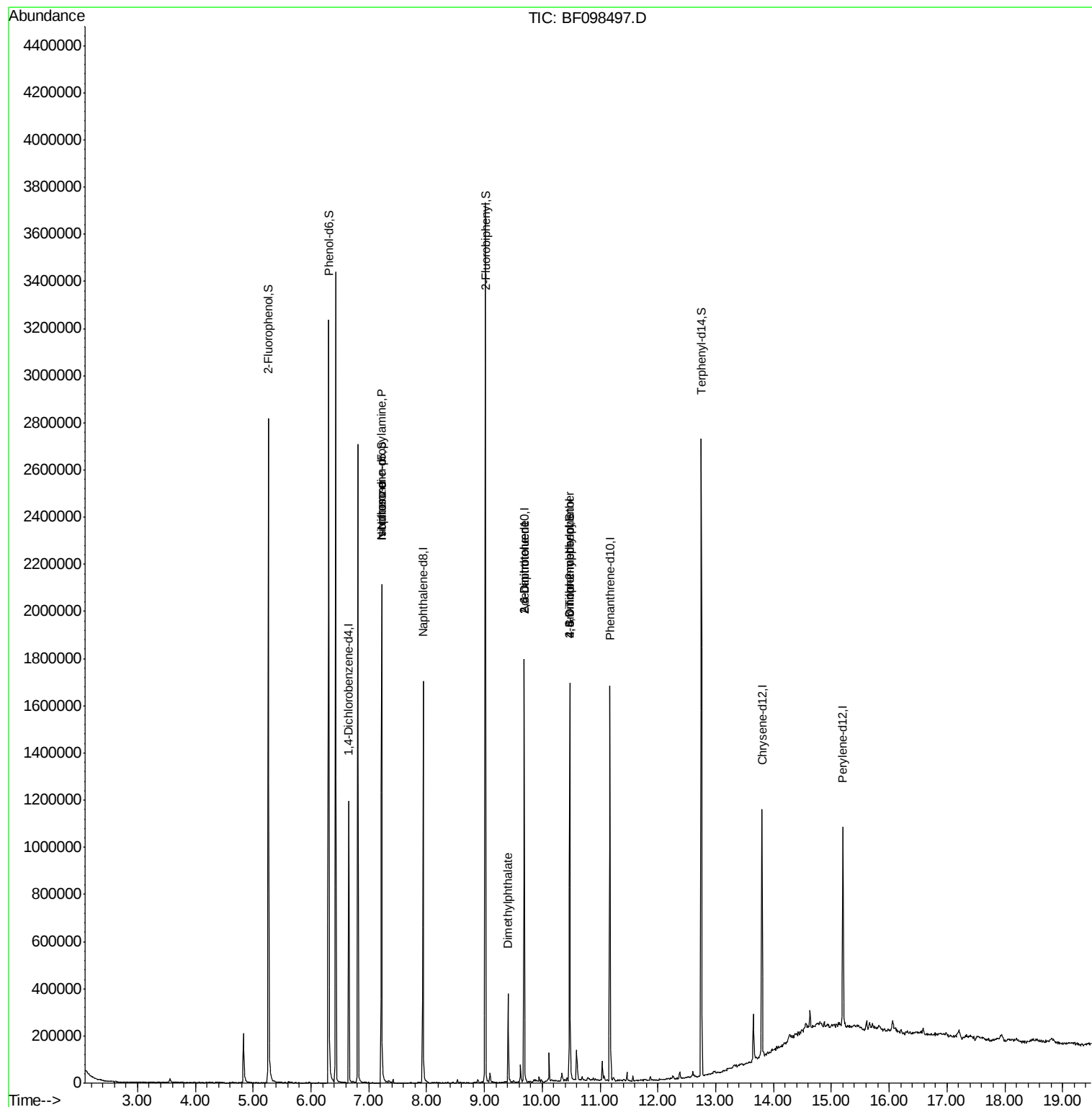
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.66  | 152  | 177771   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 7.94  | 136  | 736740   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.69  | 164  | 321621   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.17 | 188  | 528775   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.80 | 240  | 356515   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.20 | 264  | 355211   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.26  | 112  | 818189   | 68.05  | ng    | -0.01    |
| 7) Phenol-d6                   | 6.30  | 99   | 1035430  | 67.83  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.22  | 82   | 635713   | 48.10  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.47 | 330  | 162928   | 75.90  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.02  | 172  | 1114351  | 58.73  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.75 | 244  | 773432   | 46.83  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.22  | 70   | 81140    | 8.450  | ng    | # 82     |
| 25) Isophorone                 | 7.22  | 82   | 626173   | 23.419 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.41  | 163  | 135227   | 5.432  | ng    | # 97     |
| 50) 2,6-Dinitrotoluene         | 9.69  | 165  | 40946    | 8.007  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene         | 9.69  | 165  | 40946    | 6.586  | ng    | # 33     |
| 64) 4,6-Dinitro-2-methylphenol | 10.47 | 198  | 479      | 5.097  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.47 | 248  | 12319    | 2.455  | ng    | # 1      |

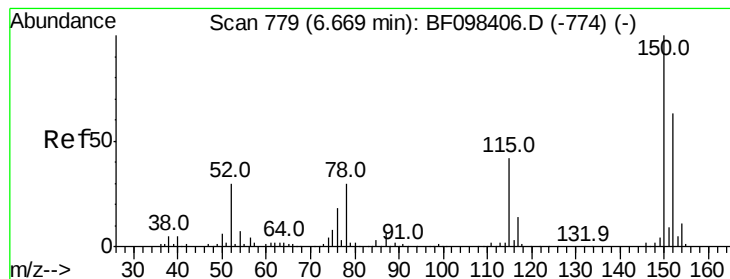
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\  
Data File : BF098497.D  
Acq On : 13 Sep 2017 18:49  
Operator : SJ/JU  
Sample : I5175-04  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Sep 14 05:05:01 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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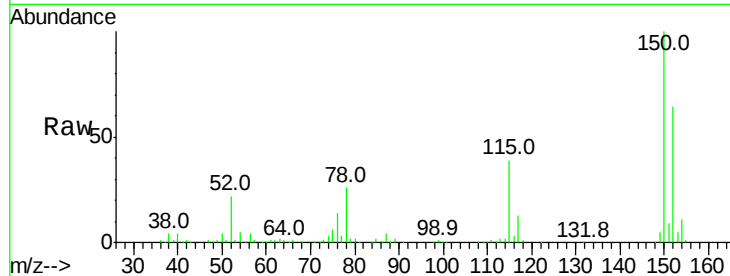


#1

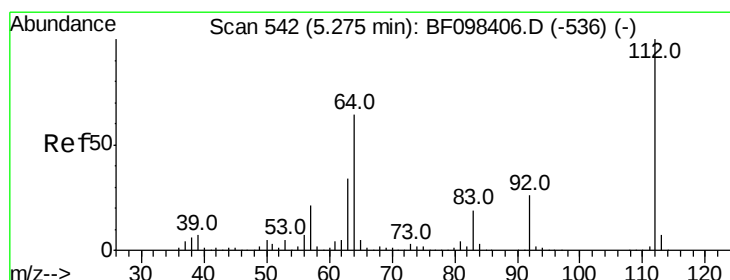
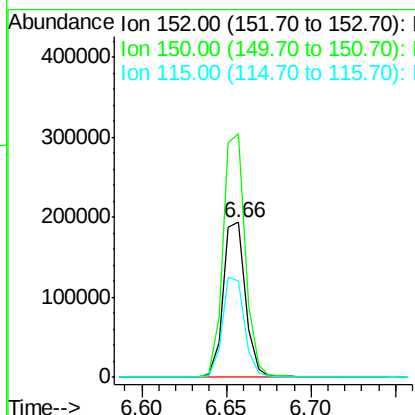
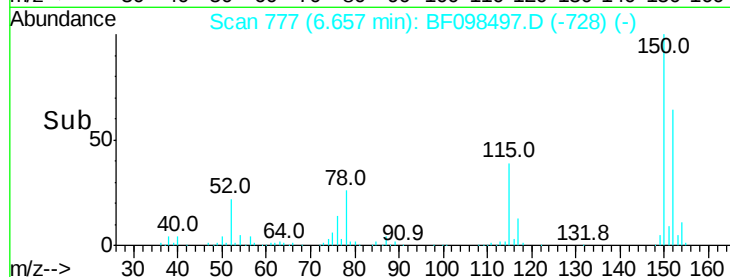
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.66 min Scan# 777  
 Delta R.T. -0.01 min  
 Lab File: BF098497.D  
 Acq: 13 Sep 2017 18:49

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 177771  
 Ion Ratio Lower Upper  
 152 100  
 150 157.2 126.2 189.2  
 115 62.0 52.2 78.2



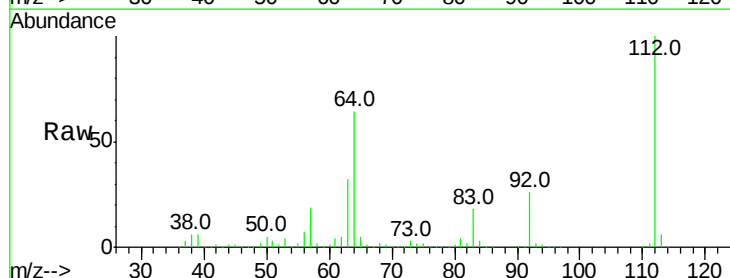
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



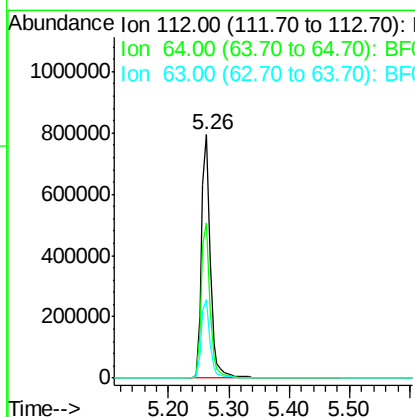
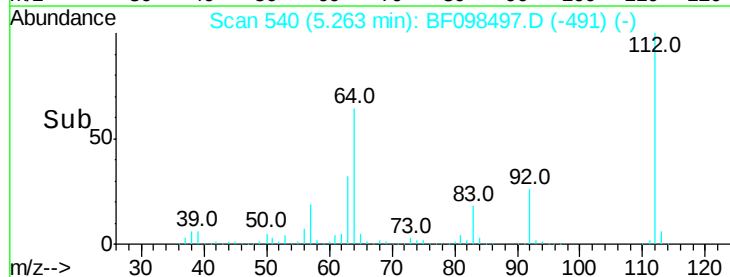
#5

2-Fluorophenol  
 Concen: 68.049 ng  
 RT: 5.26 min Scan# 540  
 Delta R.T. -0.01 min  
 Lab File: BF098497.D  
 Acq: 13 Sep 2017 18:49

Tgt Ion:112 Resp: 818189  
 Ion Ratio Lower Upper  
 112 100  
 64 64.0 46.0 69.0  
 63 32.4 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: 67.826 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.02 min

Lab File: BF098497.D

Acq: 13 Sep 2017 18:49

Instrument :

BNA\_F

ClientSampleId :

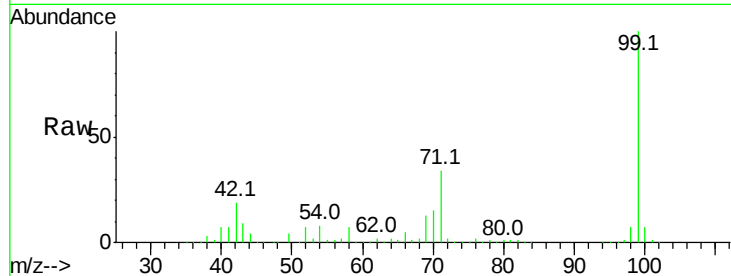
Tot Ion: 99 Resp: 1035430

Ion Ratio Lower Upper

99 100

42 18.8 13.5 20.3

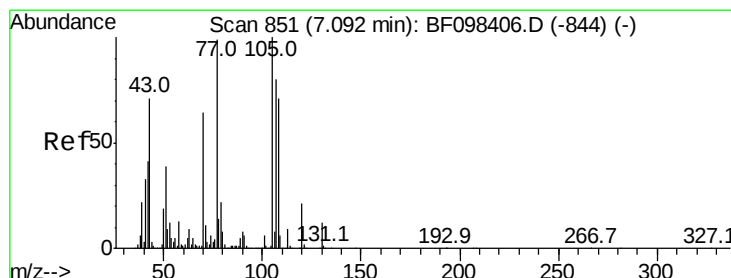
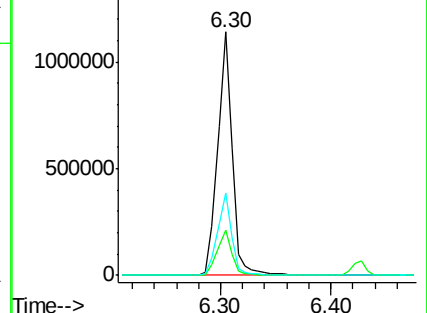
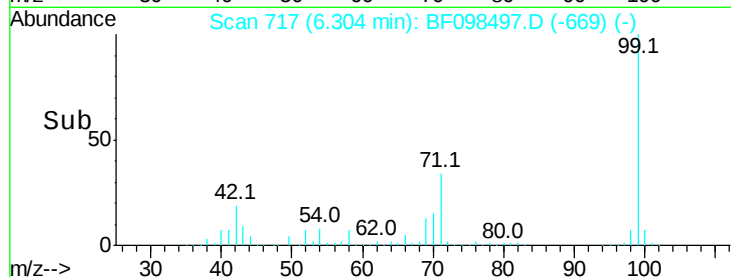
71 34.0 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 8.450 ng

RT: 7.22 min Scan# 873

Delta R.T. 0.13 min

Lab File: BF098497.D

Acq: 13 Sep 2017 18:49

Tgt Ion: 70 Resp: 81140

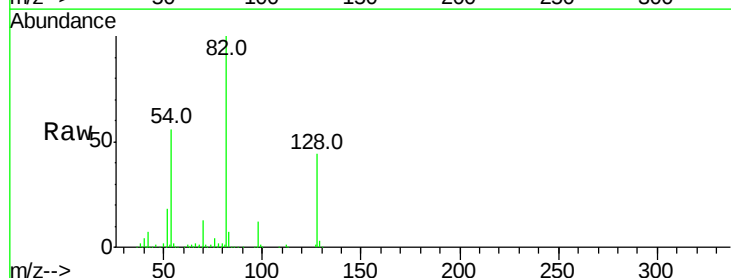
Ion Ratio Lower Upper

70 100

42 51.5 47.2 70.8

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

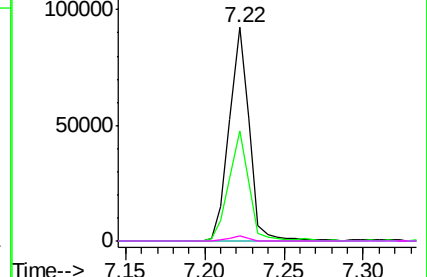
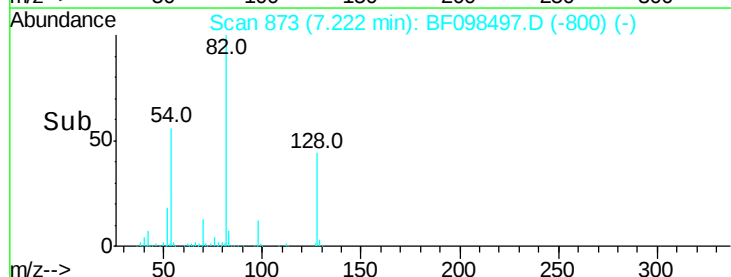


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

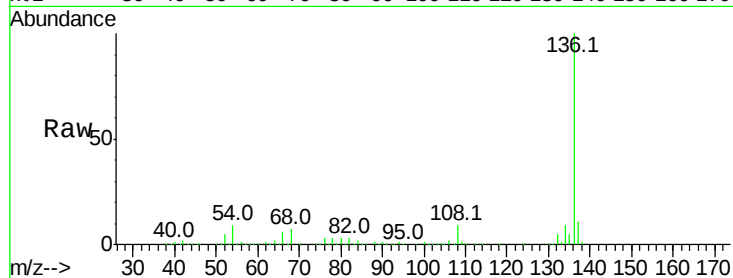




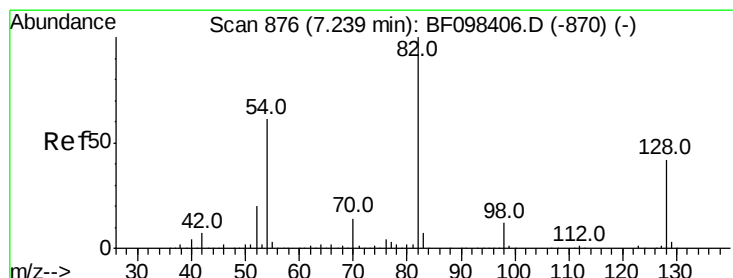
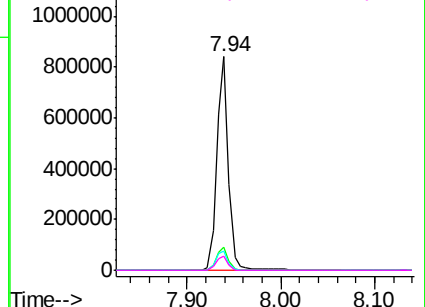
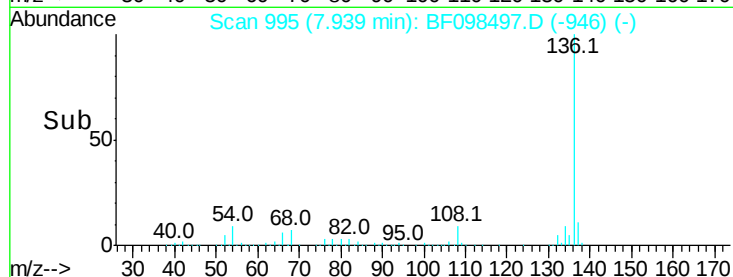
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.94 min Scan# 995  
Delta R.T. -0.01 min  
Lab File: BF098497.D  
Acq: 13 Sep 2017 18:49

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 736740 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 8.5   | 12.7   |
| 54       | 9.0   | 4.9   | 7.3#   |
| 68       | 6.7   | 4.1   | 6.1#   |

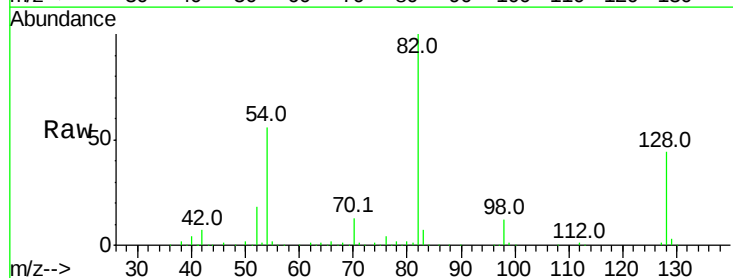


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

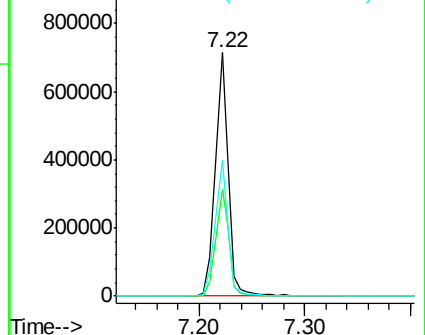
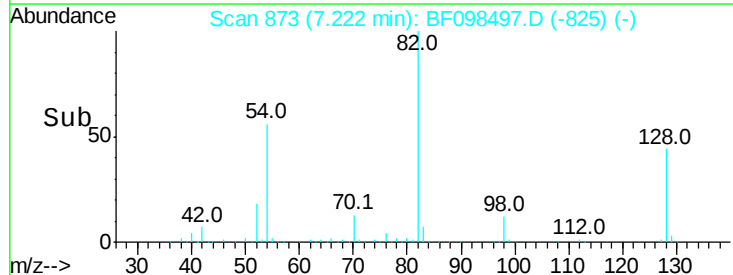


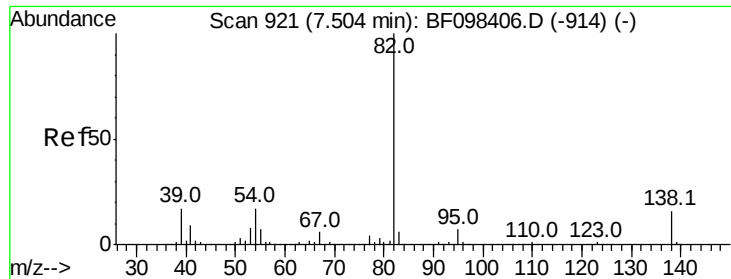
#23  
Nitrobenzene-d5  
Concen: 48.105 ng  
RT: 7.22 min Scan# 873  
Delta R.T. -0.02 min  
Lab File: BF098497.D  
Acq: 13 Sep 2017 18:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 635713 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.8  | 34.0  | 51.0   |
| 54       | 56.0  | 42.2  | 63.2   |



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





#25

Isophorone

Concen: 23.419 ng

RT: 7.22 min Scan# 873

Delta R.T. -0.28 min

Lab File: BF098497.D

Acq: 13 Sep 2017 18:49

Instrument :

BNA\_F

ClientSampleId :

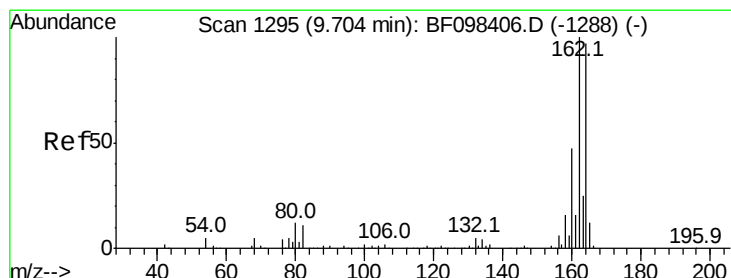
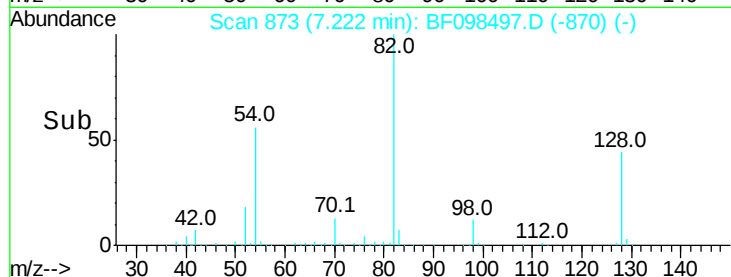
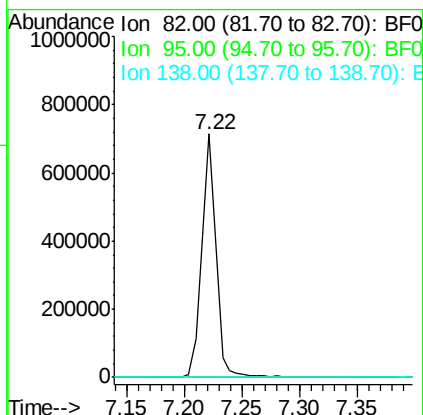
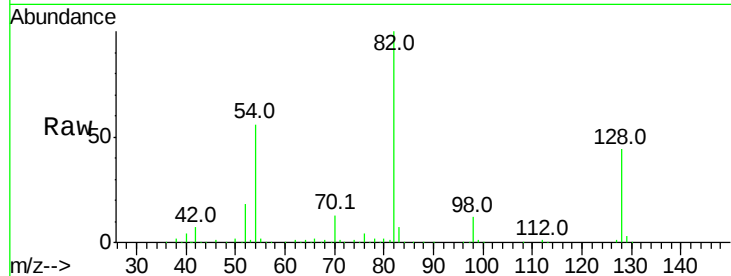
Tot Ion: 82 Resp: 626173

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.69 min Scan# 1292

Delta R.T. -0.02 min

Lab File: BF098497.D

Acq: 13 Sep 2017 18:49

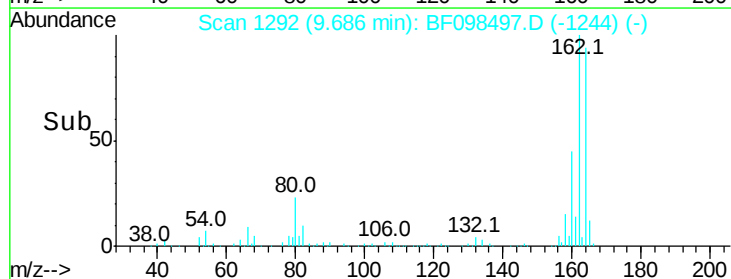
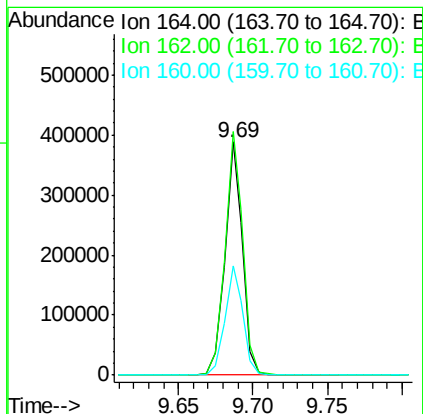
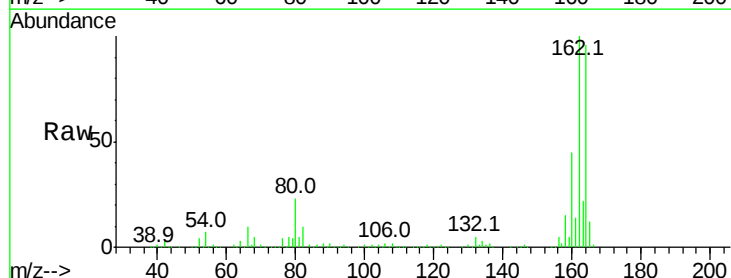
Tgt Ion:164 Resp: 321621

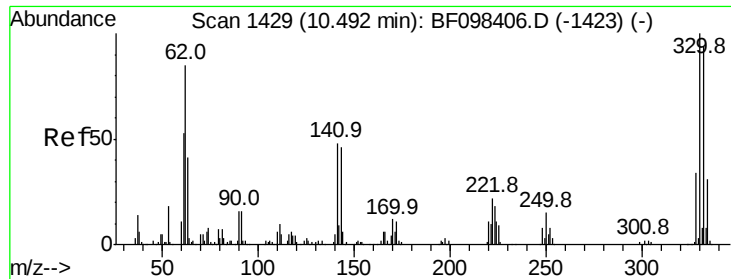
Ion Ratio Lower Upper

164 100

162 104.4 82.6 123.8

160 46.7 36.2 54.2

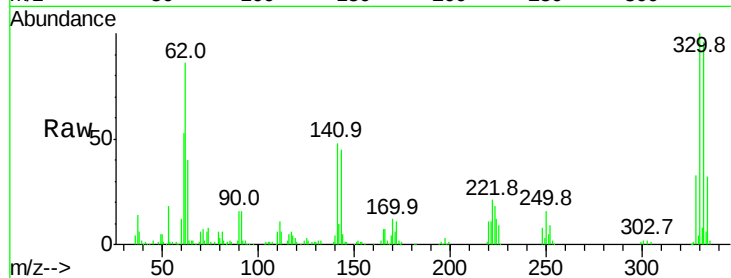




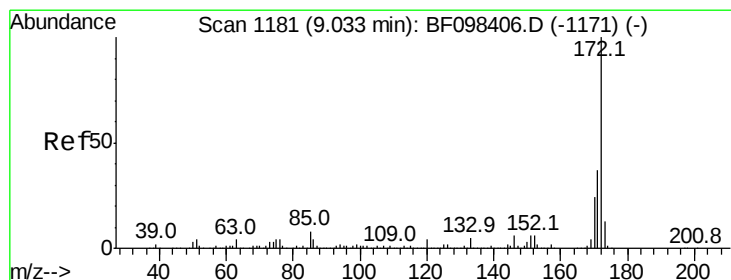
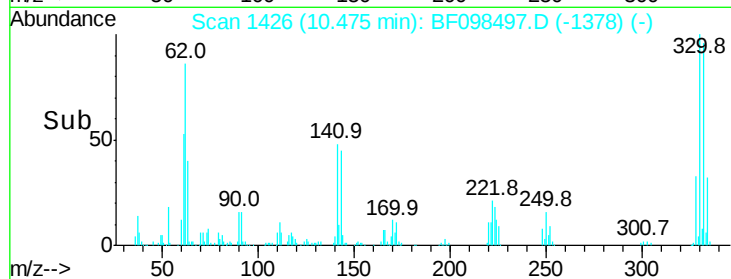
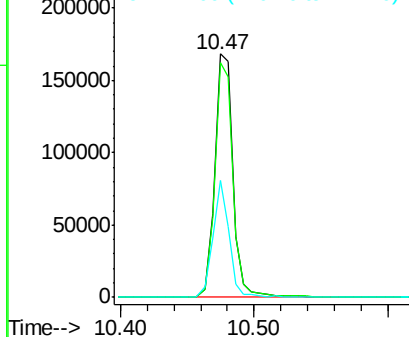
#41  
 2,4,6-Tribromophenol  
 Concen: 75.902 ng  
 RT: 10.47 min Scan# 1426  
 Delta R.T. -0.02 min  
 Lab File: BF098497.D  
 Acq: 13 Sep 2017 18:49

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 162928  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 76.6 115.0  
 141 42.4 31.4 47.2

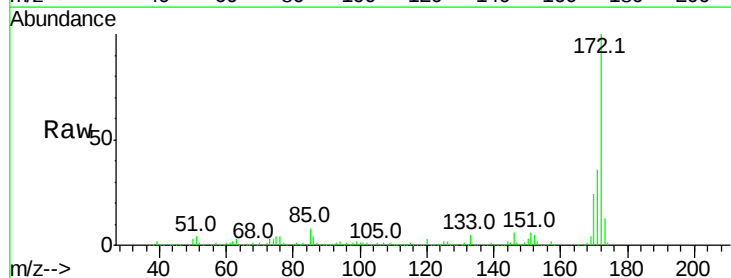


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

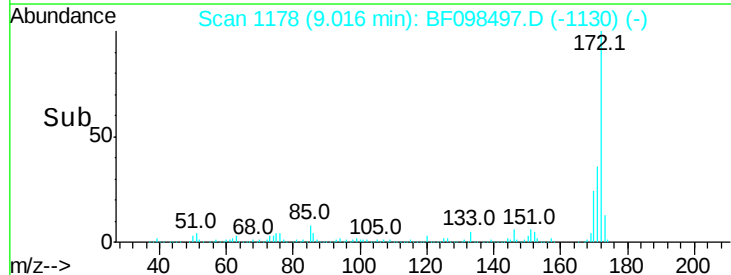
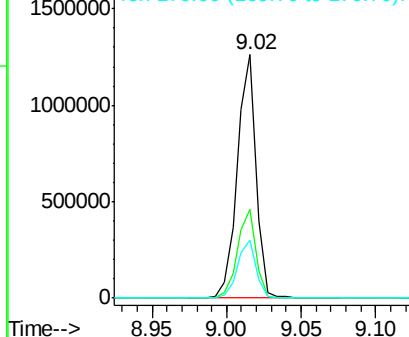


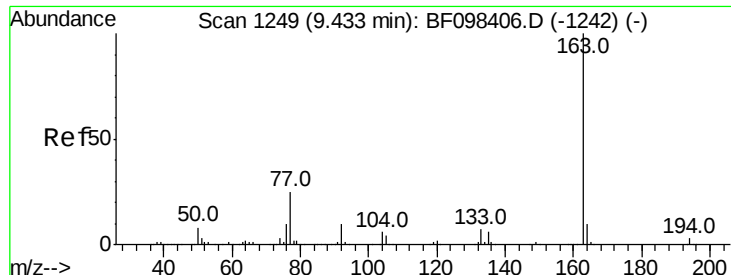
#44  
 2-Fluorobiphenyl  
 Concen: 58.725 ng  
 RT: 9.02 min Scan# 1178  
 Delta R.T. -0.02 min  
 Lab File: BF098497.D  
 Acq: 13 Sep 2017 18:49

Tgt Ion:172 Resp: 1114351  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 29.6 44.4  
 170 23.8 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

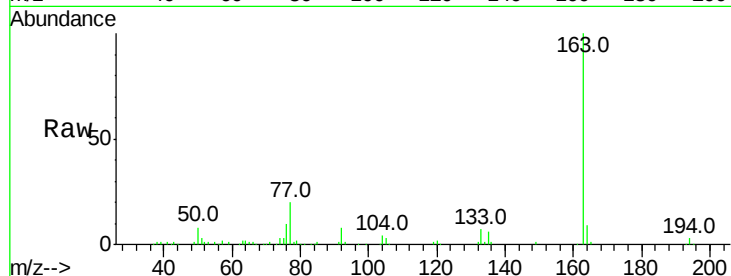




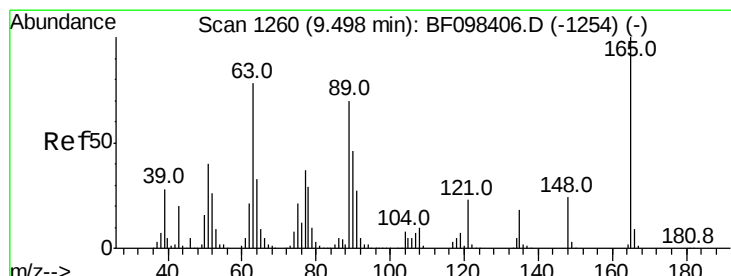
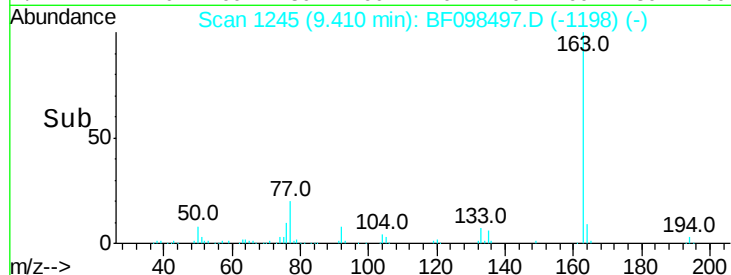
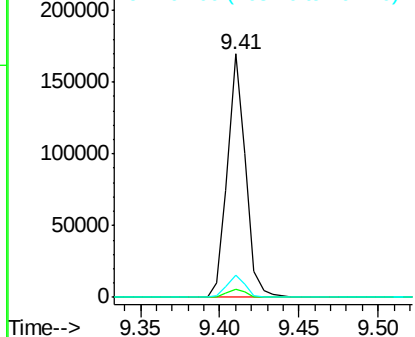
#49  
Dimethylphthalate  
Concen: 5.432 ng  
RT: 9.41 min Scan# 1245  
Delta R.T. -0.02 min  
Lab File: BF098497.D  
Acq: 13 Sep 2017 18:49

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 135227  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.6 4.0  
164 9.2 8.4 12.6

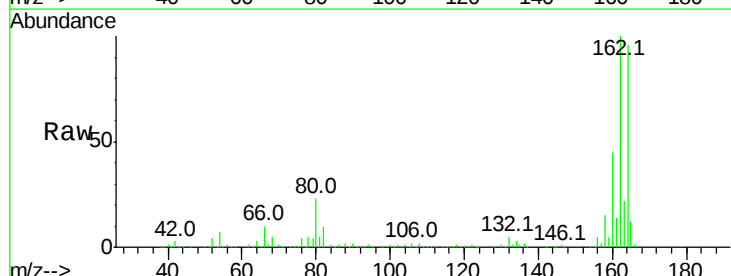


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

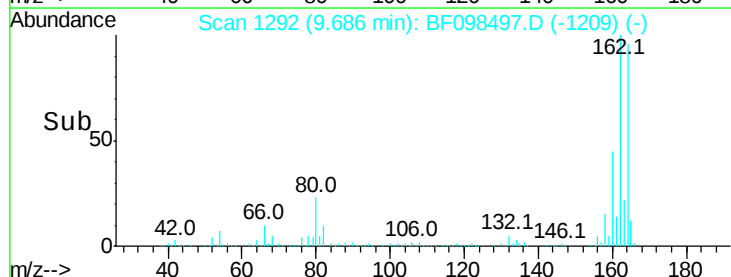
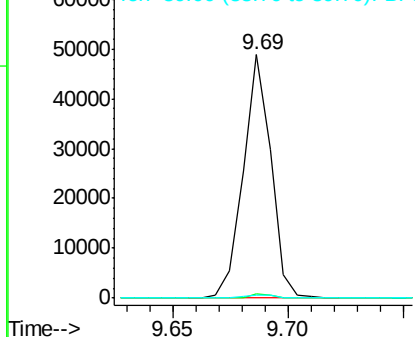


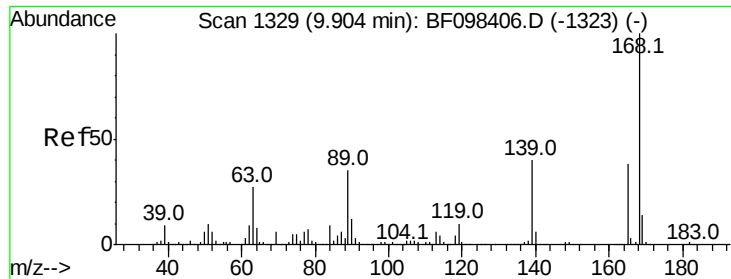
#50  
2,6-Dinitrotoluene  
Concen: 8.007 ng  
RT: 9.69 min Scan# 1292  
Delta R.T. 0.19 min  
Lab File: BF098497.D  
Acq: 13 Sep 2017 18:49

Tgt Ion:165 Resp: 40946  
Ion Ratio Lower Upper  
165 100  
63 1.7 34.3 51.5#  
89 1.5 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: 6.586 ng

RT: 9.69 min Scan# 1292

Delta R.T. -0.22 min

Lab File: BF098497.D

Acq: 13 Sep 2017 18:49

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 40946

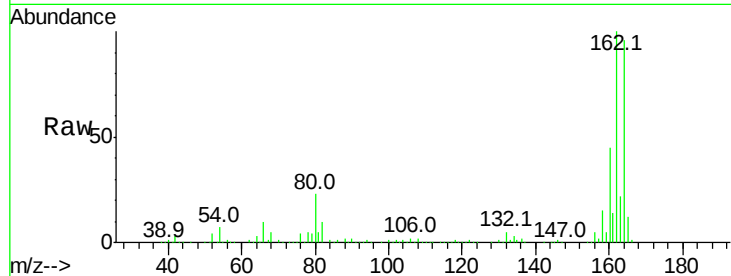
Ion Ratio Lower Upper

165 100

63 1.7 25.4 38.0#

89 1.5 46.4 69.6#

182 0.0 1.8 2.6#

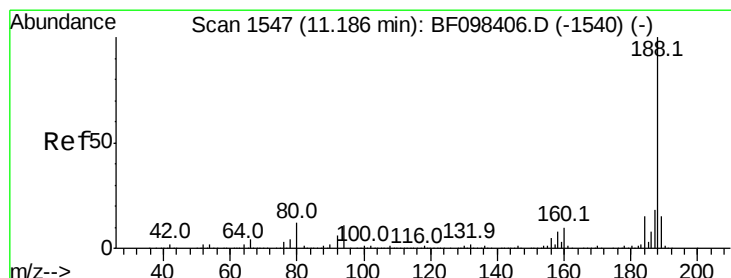
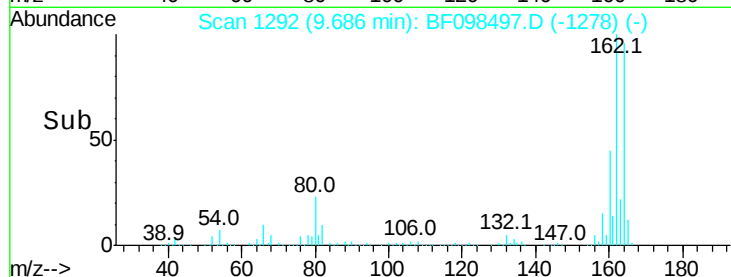
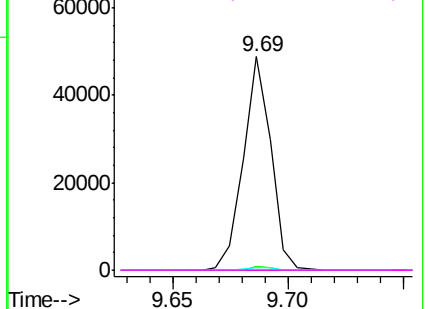


Abundance Ion 165.00 (164.70 to 165.70): E

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: 20.000 ng

RT: 11.17 min Scan# 1544

Delta R.T. -0.02 min

Lab File: BF098497.D

Acq: 13 Sep 2017 18:49

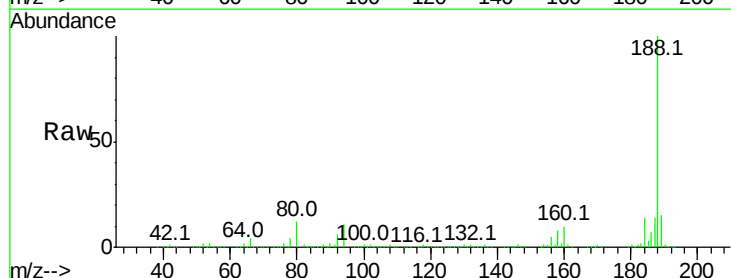
Tgt Ion:188 Resp: 528775

Ion Ratio Lower Upper

188 100

94 10.7 9.4 14.2

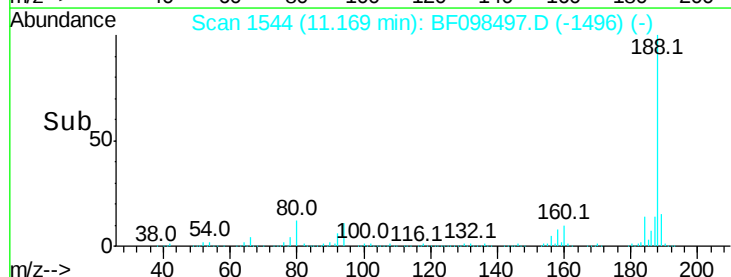
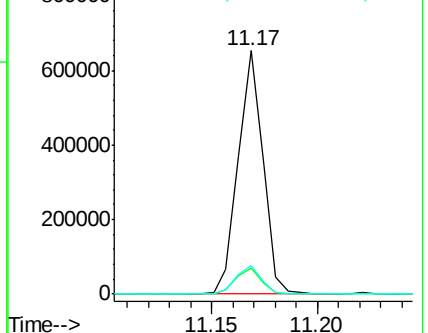
80 11.6 10.2 15.2

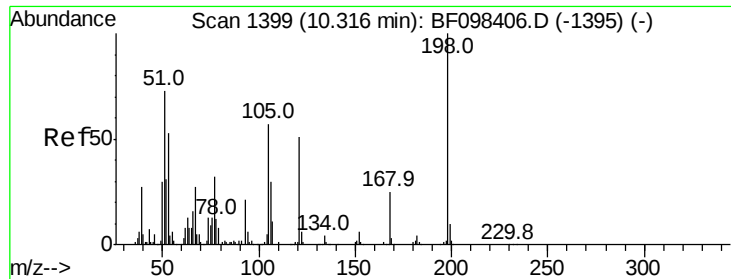


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

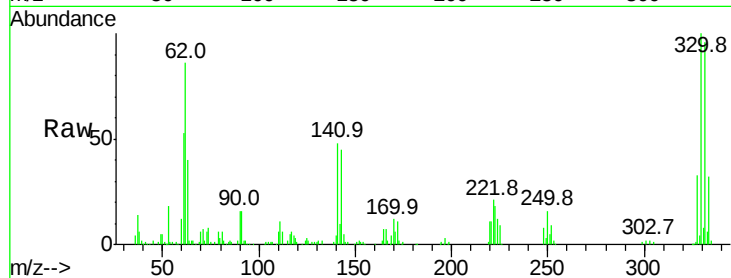




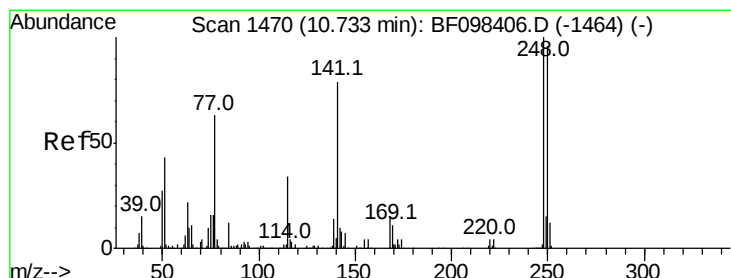
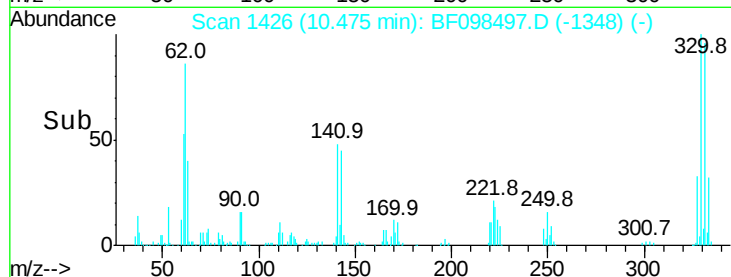
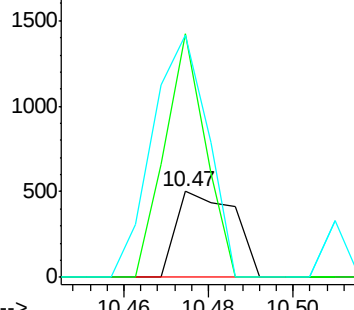
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.097 ng  
 RT: 10.47 min Scan# 1426  
 Delta R.T. 0.16 min  
 Lab File: BF098497.D  
 Acq: 13 Sep 2017 18:49

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:198 Resp: 479  
 Ion Ratio Lower Upper  
 198 100  
 51 282.9 53.2 93.2#  
 105 281.9 45.8 85.8#

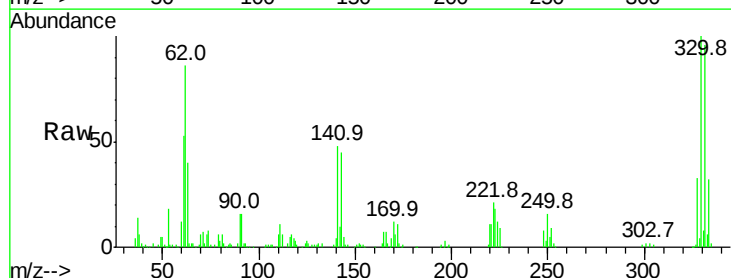


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF0  
 Ion 105.00 (104.70 to 105.70): E

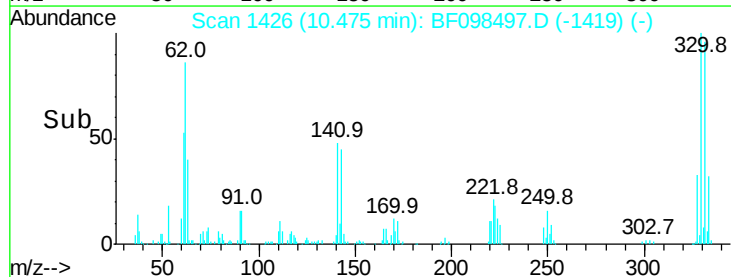
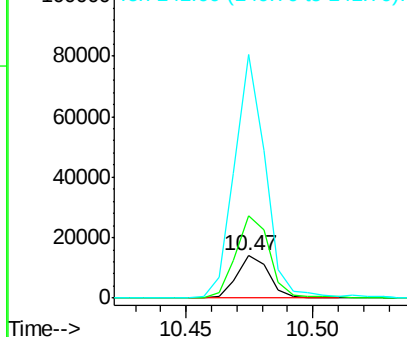


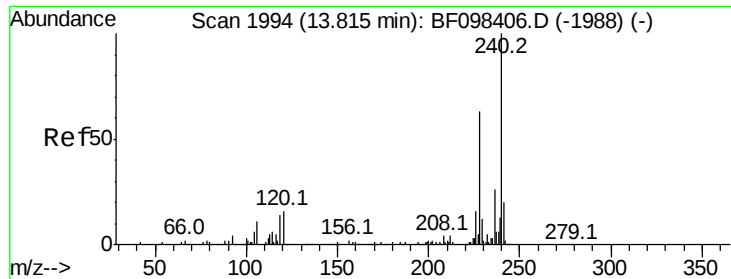
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.455 ng  
 RT: 10.47 min Scan# 1426  
 Delta R.T. -0.26 min  
 Lab File: BF098497.D  
 Acq: 13 Sep 2017 18:49

Tgt Ion:248 Resp: 12319  
 Ion Ratio Lower Upper  
 248 100  
 250 193.9 76.8 115.2#  
 141 576.0 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: 20.000 ng

RT: 13.80 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF098497.D

Acq: 13 Sep 2017 18:49

Instrument :

BNA\_F

ClientSampleId :

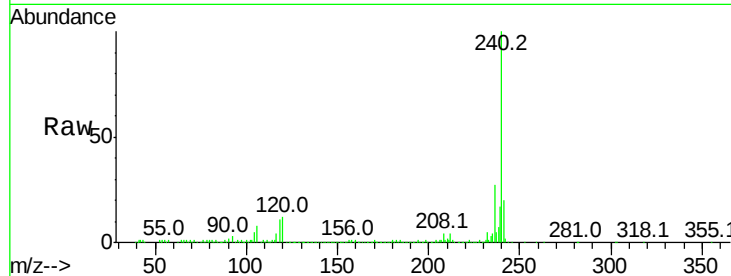
Tot Ion:240 Resp: 356515

Ion Ratio Lower Upper

240 100

120 12.4 5.8 8.8#

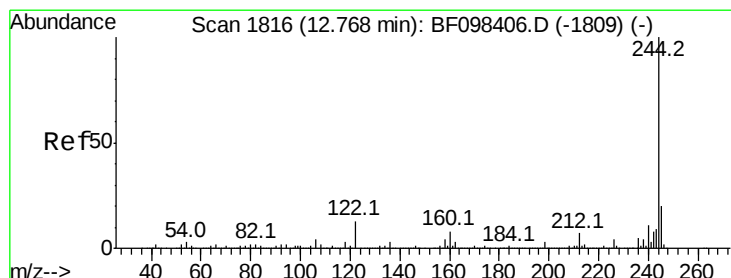
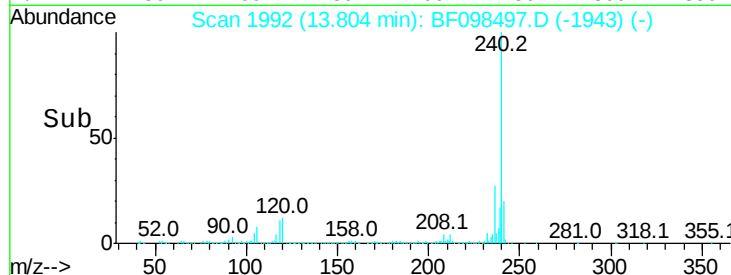
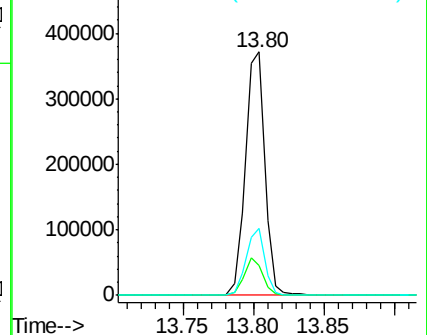
236 27.3 20.5 30.7



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: 46.826 ng

RT: 12.75 min Scan# 1813

Delta R.T. -0.02 min

Lab File: BF098497.D

Acq: 13 Sep 2017 18:49

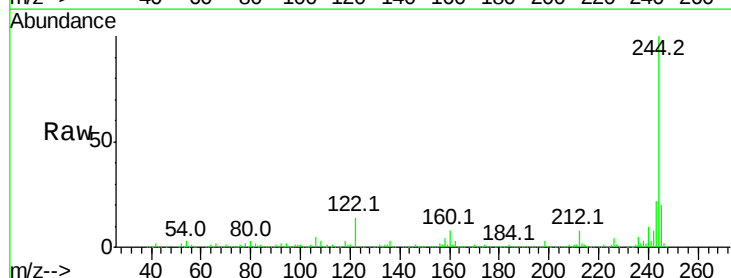
Tgt Ion:244 Resp: 773432

Ion Ratio Lower Upper

244 100

212 7.5 6.0 9.0

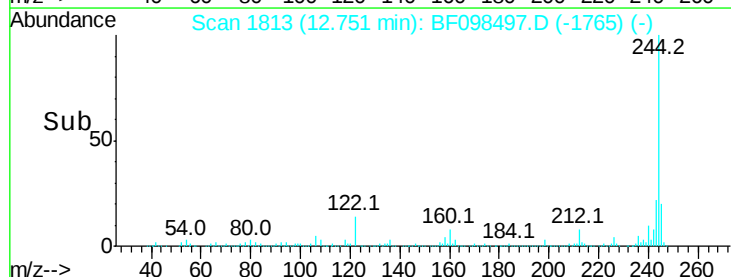
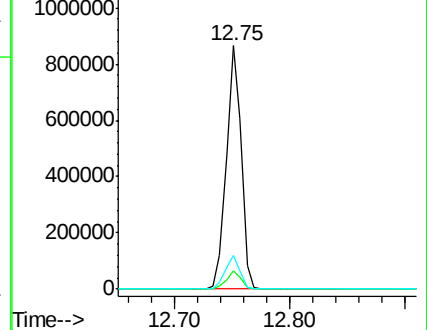
122 13.9 10.3 15.5

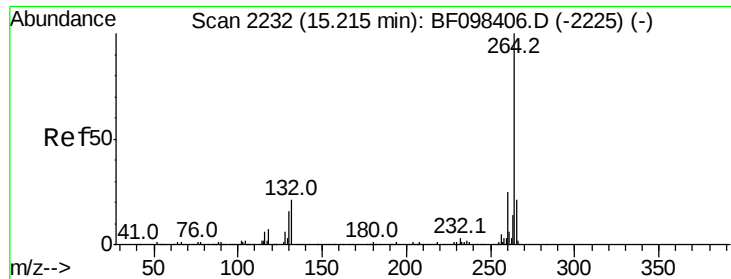


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

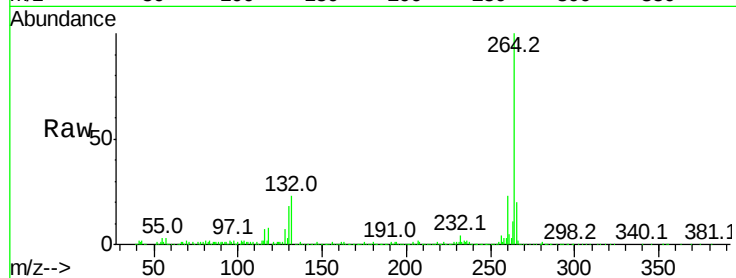




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.20 min Scan# 2229  
Delta R.T. -0.02 min  
Lab File: BF098497.D  
Acq: 13 Sep 2017 18:49

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.5  | 29.3  |
| 265     | 20.4  | 17.2  | 25.8  |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

