

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100917\  
 Data File : BF099261.D  
 Acq On : 9 Oct 2017 14:42  
 Operator : SJ/JU  
 Sample : PB103065BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 09 17:14:26 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 05 17:20:48 2017  
 Response via : Initial Calibration

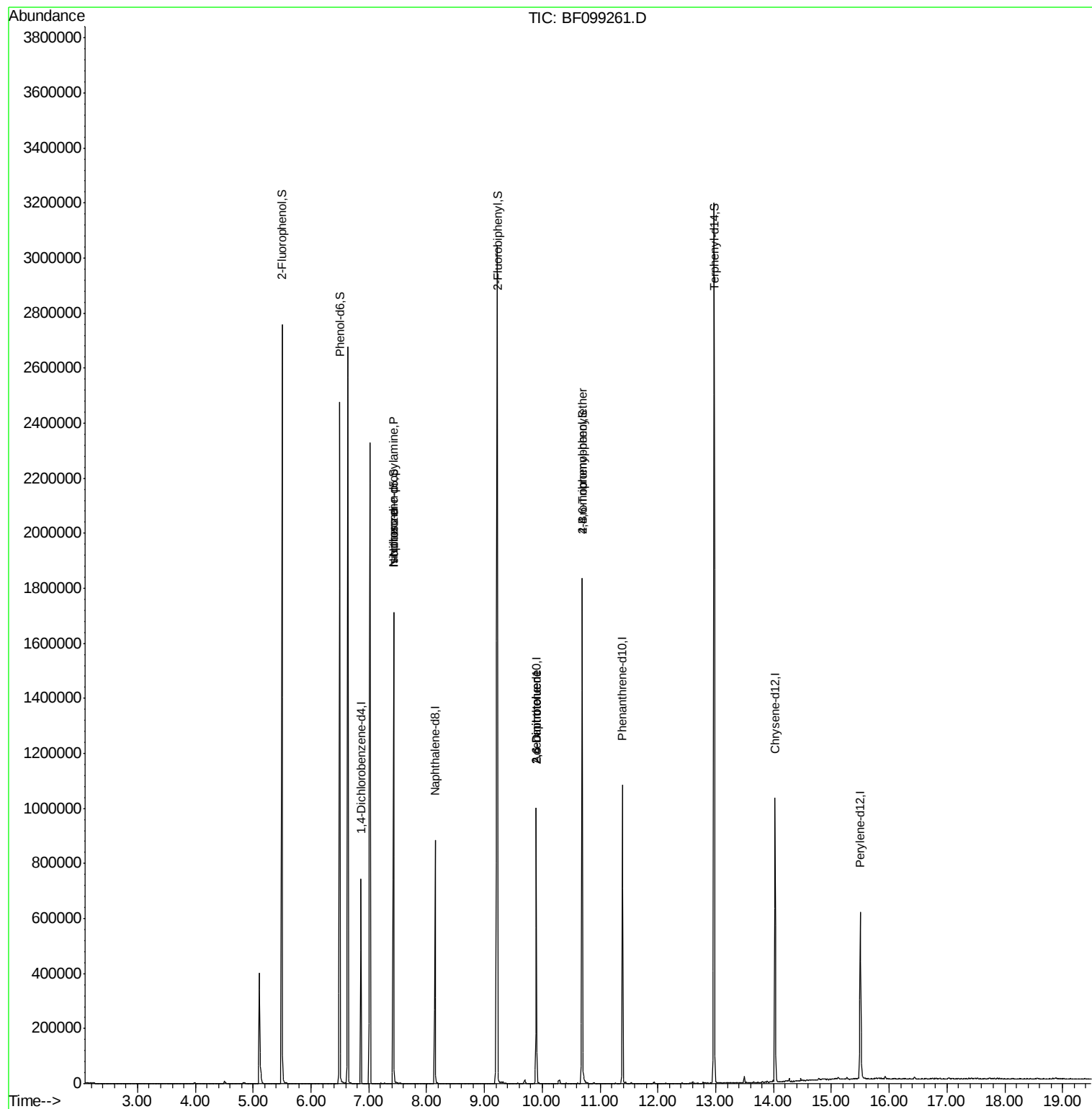
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 102390   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 426765   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.90  | 164  | 197094   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.39 | 188  | 377546   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.03 | 240  | 318062   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.50 | 264  | 279673   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 869119   | 135.13 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.50  | 99   | 1046264  | 131.86 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 622031   | 93.47  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.69 | 330  | 237978   | 147.56 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 1185503  | 100.41 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.97 | 244  | 1157550  | 82.77  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 78762    | 15.548 | ng    | # 75     |
| 25) Isophorone                 | 7.43  | 82   | 619762   | 45.046 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165  | 24906    | 7.691  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 24906    | 5.926  | ng    | # 22     |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248  | 15722    | 4.254  | ng    | # 1      |

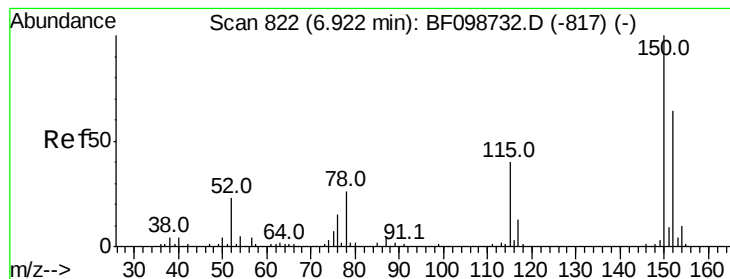
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100917\  
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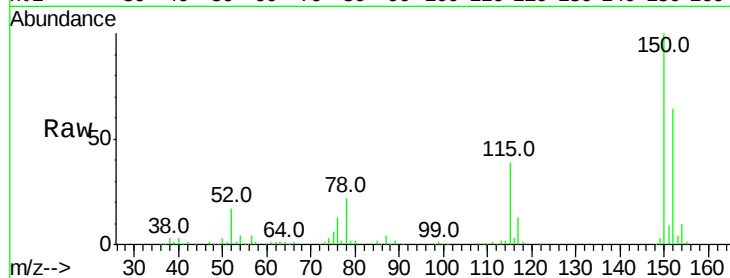


#1

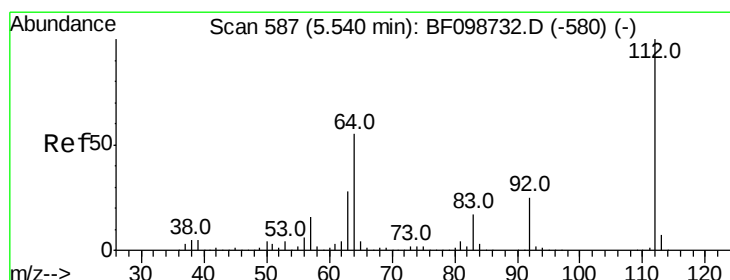
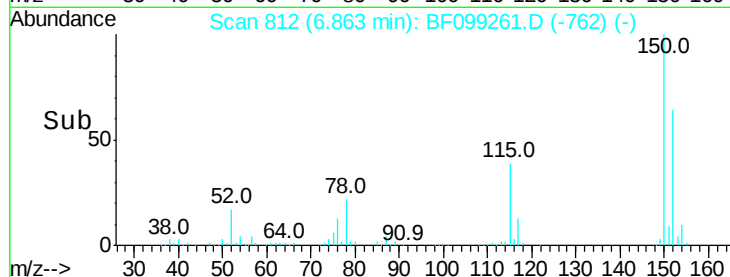
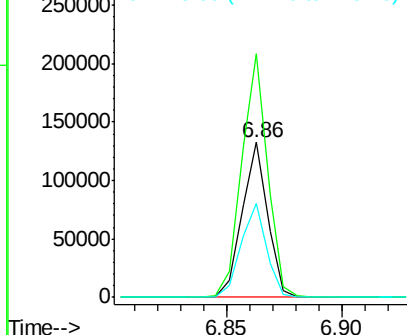
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF099261.D  
Acq: 9 Oct 2017 14:42

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 102390  
Ion Ratio Lower Upper  
152 100  
150 157.2 124.6 186.8  
115 60.8 50.1 75.1



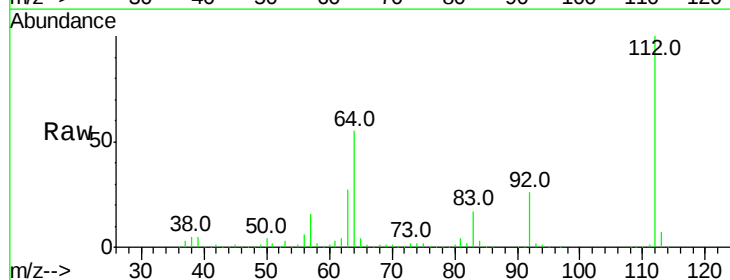
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



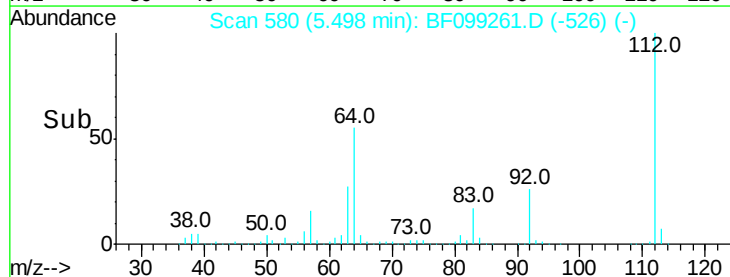
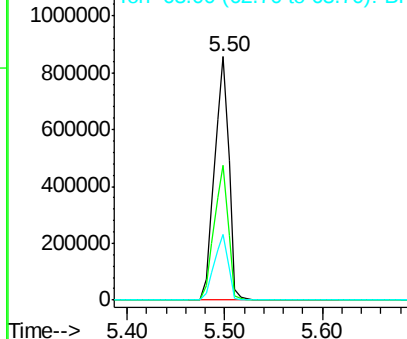
#5

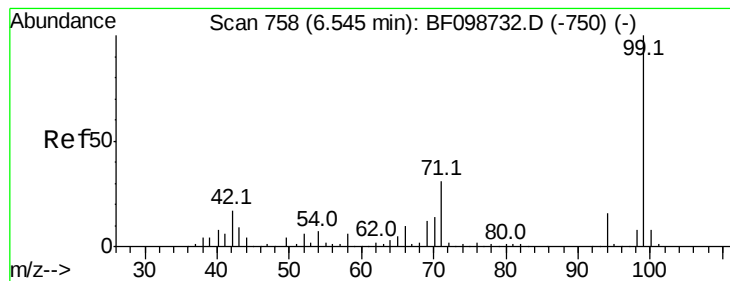
2-Fluorophenol  
Concen: 135.126 ng  
RT: 5.50 min Scan# 580  
Delta R.T. 0.02 min  
Lab File: BF099261.D  
Acq: 9 Oct 2017 14:42

Tgt Ion:112 Resp: 869119  
Ion Ratio Lower Upper  
112 100  
64 55.4 47.9 71.9  
63 26.9 23.7 35.5



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: 131.862 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF099261.D

Acq: 9 Oct 2017 14:42

Instrument :

BNA\_F

ClientSampleId :

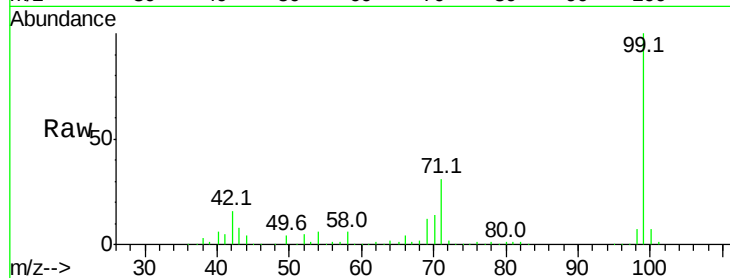
Tot Ion: 99 Resp: 1046264

Ion Ratio Lower Upper

99 100

42 15.8 14.5 21.7

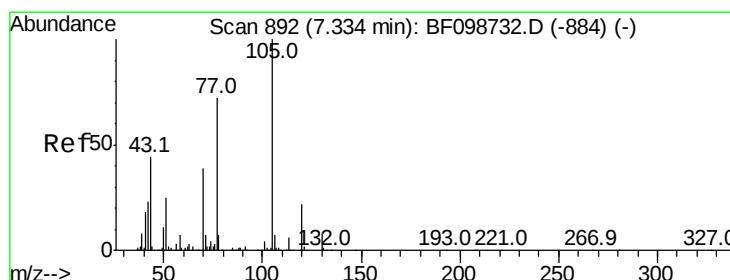
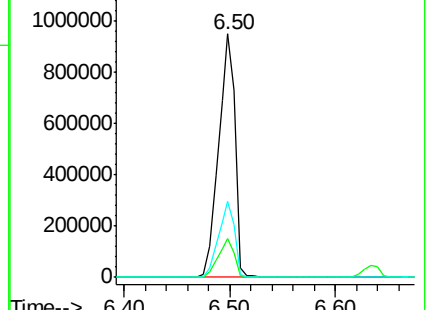
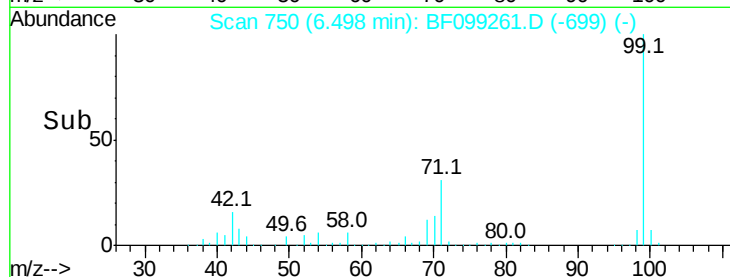
71 31.2 25.4 38.0



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: 15.548 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.14 min

Lab File: BF099261.D

Acq: 9 Oct 2017 14:42

Tgt Ion: 70 Resp: 78762

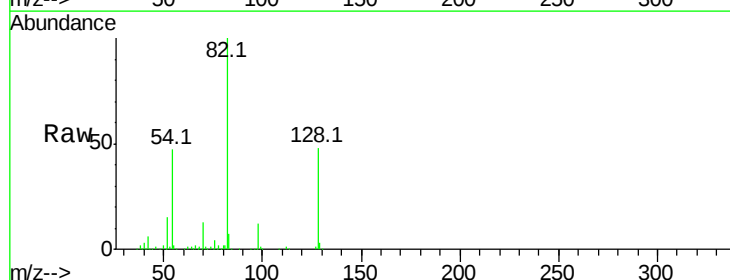
Ion Ratio Lower Upper

70 100

42 44.0 47.5 71.3#

101 0.0 7.4 11.2#

130 2.8 16.6 25.0#

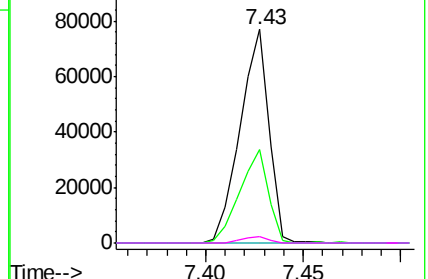
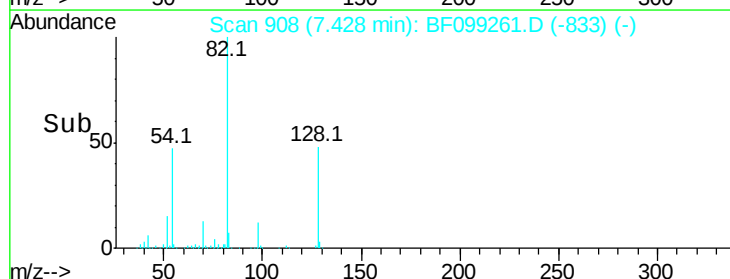


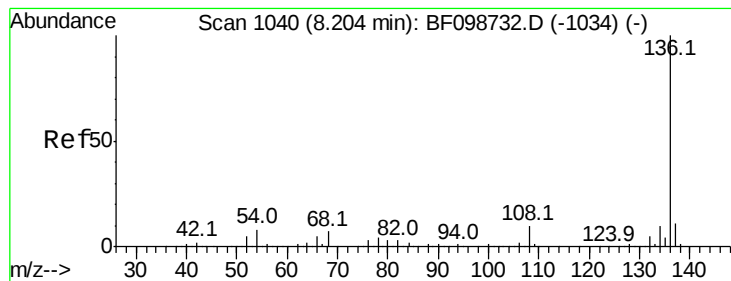
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF099261.D

Acq: 9 Oct 2017 14:42

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 426765

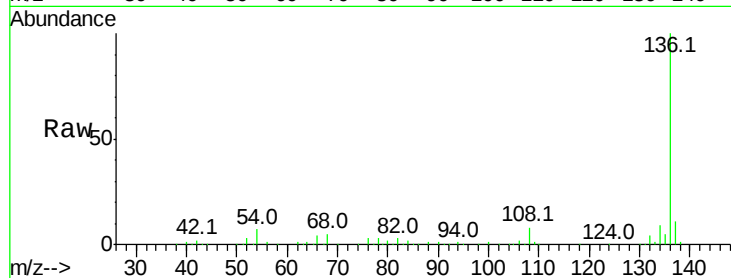
Ion Ratio Lower Upper

136 100

137 11.4 8.9 13.3

54 6.7 6.6 9.8

68 5.3 5.0 7.4

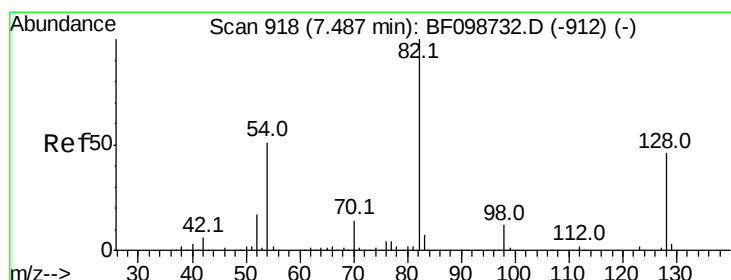
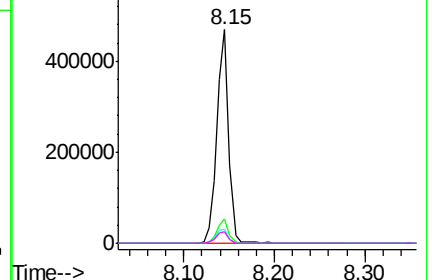
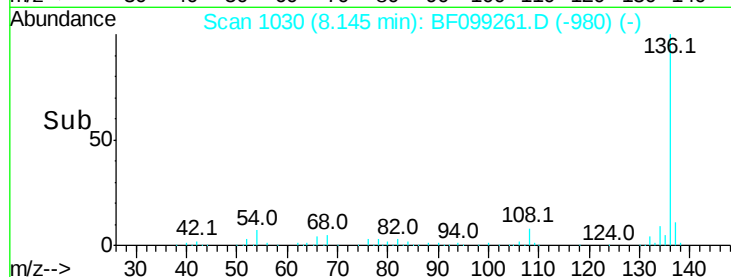


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 93.473 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF099261.D

Acq: 9 Oct 2017 14:42

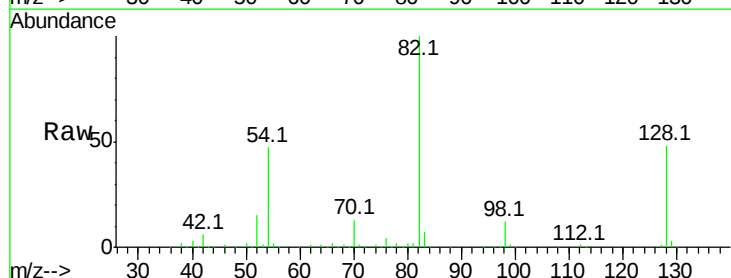
Tgt Ion: 82 Resp: 622031

Ion Ratio Lower Upper

82 100

128 48.0 36.1 54.1

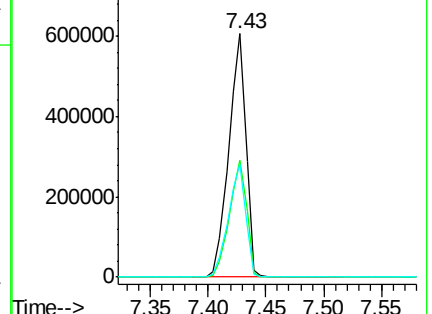
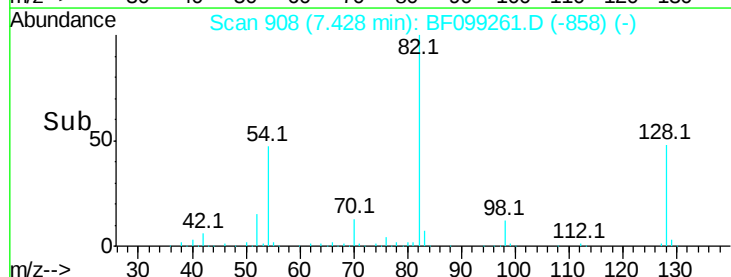
54 46.7 41.4 62.2

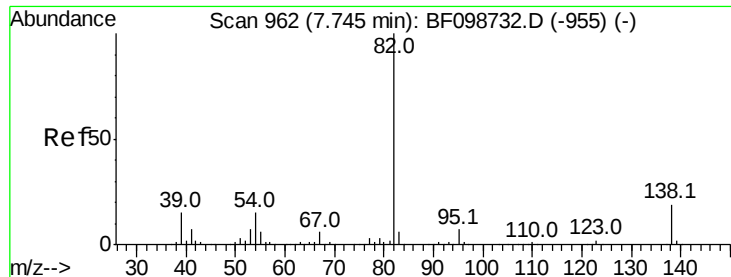


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 45.046 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.26 min

Lab File: BF099261.D

Acq: 9 Oct 2017 14:42

Instrument :

BNA\_F

ClientSampleId :

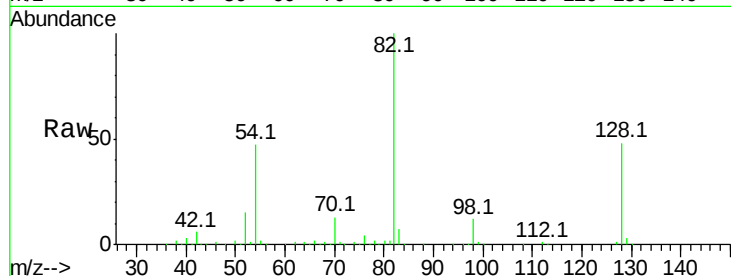
Tot Ion: 82 Resp: 619762

Ion Ratio Lower Upper

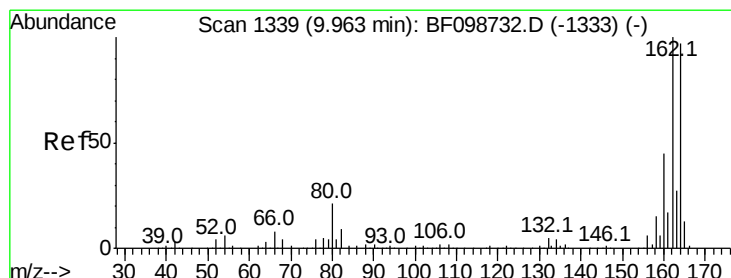
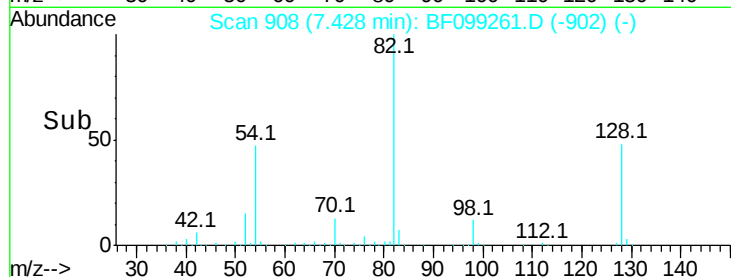
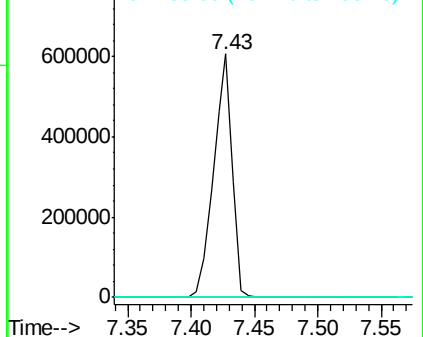
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF099261.D

Acq: 9 Oct 2017 14:42

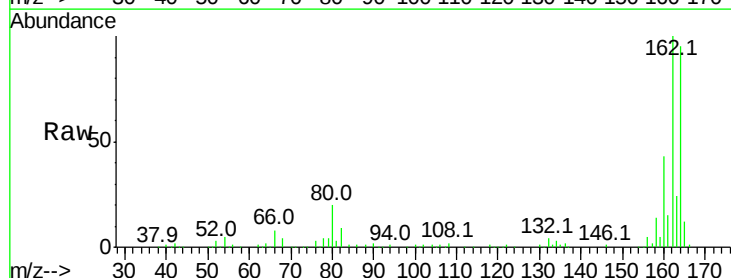
Tgt Ion:164 Resp: 197094

Ion Ratio Lower Upper

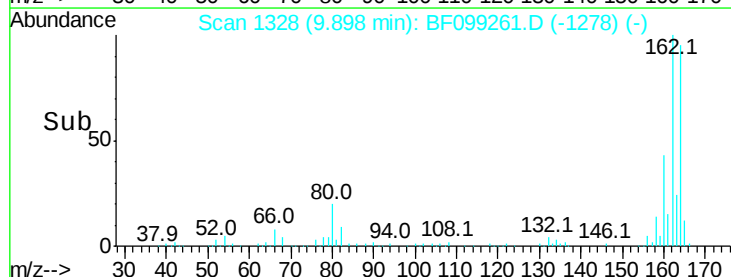
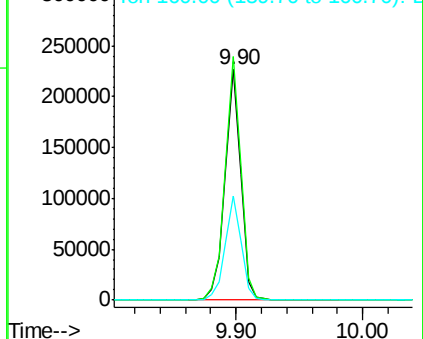
164 100

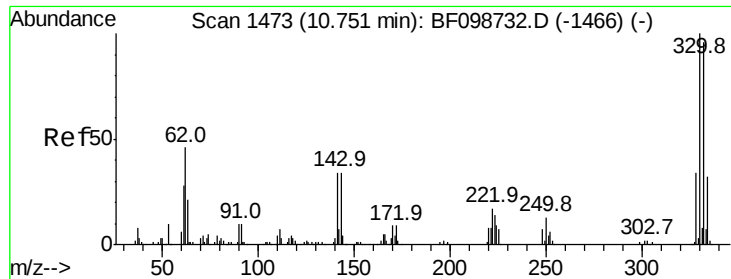
162 105.5 86.1 129.1

160 45.0 38.3 57.5



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

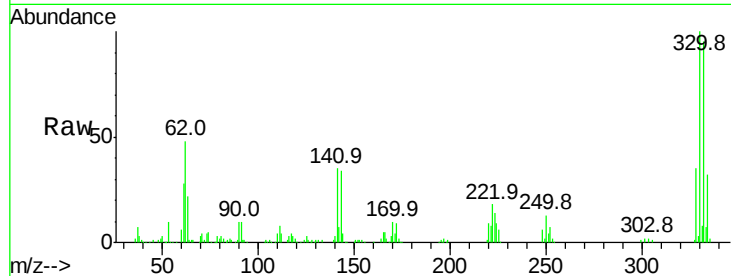




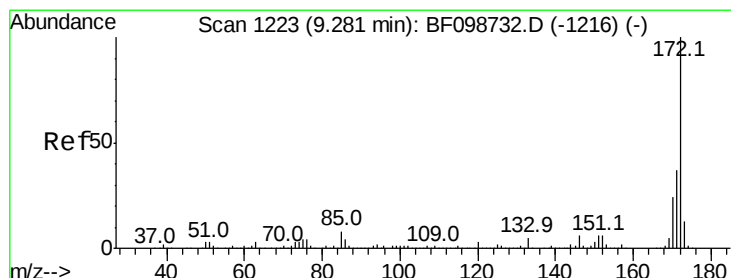
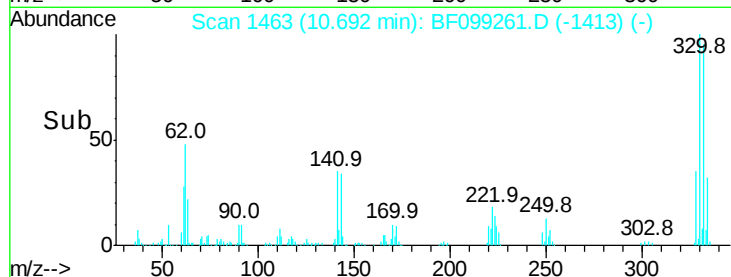
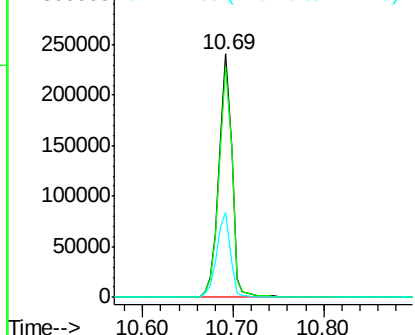
#41  
 2,4,6-Tribromophenol  
 Concen: 147.559 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.01 min  
 Lab File: BF099261.D  
 Acq: 9 Oct 2017 14:42

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 237978  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.0 115.6  
 141 37.0 29.9 44.9

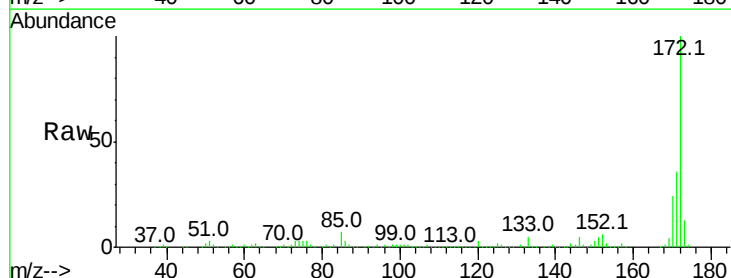


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

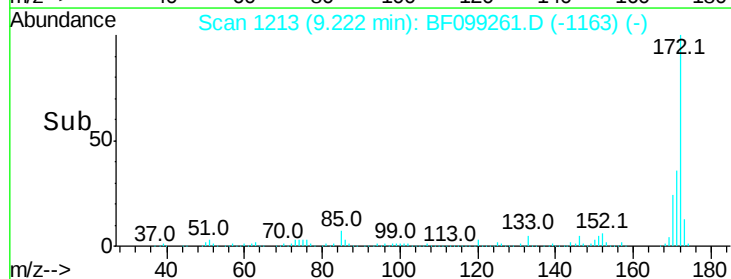
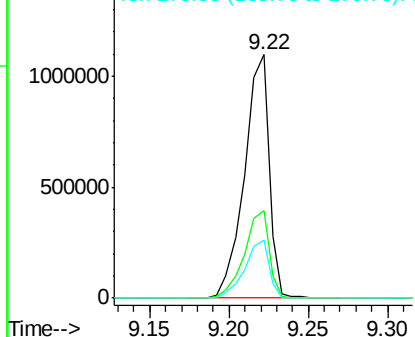


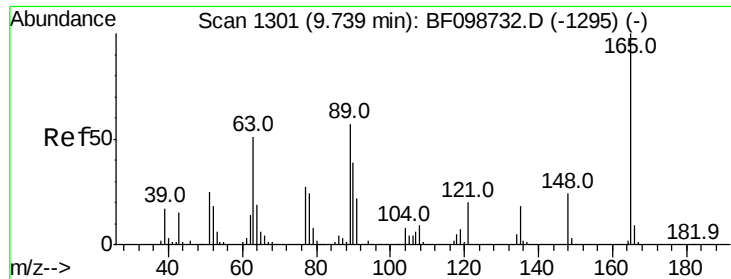
#44  
 2-Fluorobiphenyl  
 Concen: 100.414 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. -0.01 min  
 Lab File: BF099261.D  
 Acq: 9 Oct 2017 14:42

Tgt Ion:172 Resp: 1185503  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.7 44.5  
 170 24.1 19.6 29.4



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

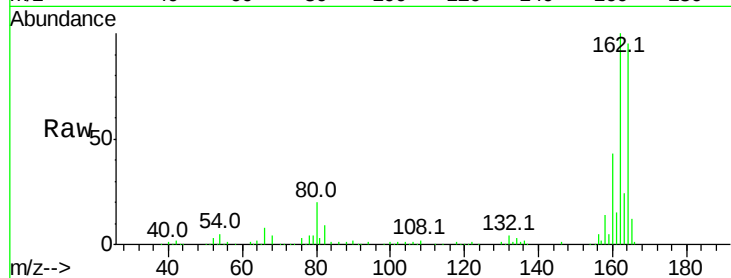




#50  
2,6-Dinitrotoluene  
Concen: 7.691 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. 0.21 min  
Lab File: BF099261.D  
Acq: 9 Oct 2017 14:42

Instrument :  
BNA\_F  
ClientSampleId :

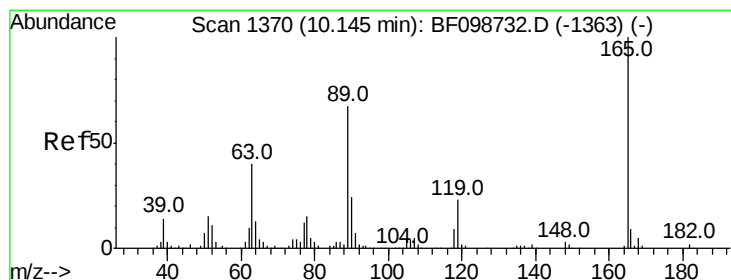
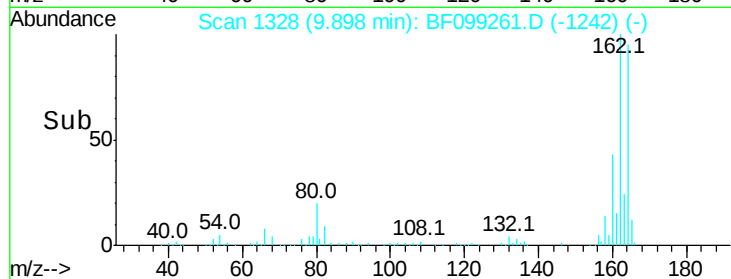
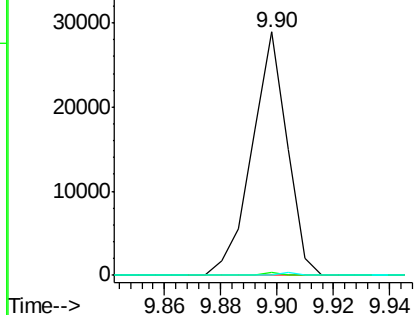
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |



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: 5.926 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. -0.20 min  
Lab File: BF099261.D  
Acq: 9 Oct 2017 14:42

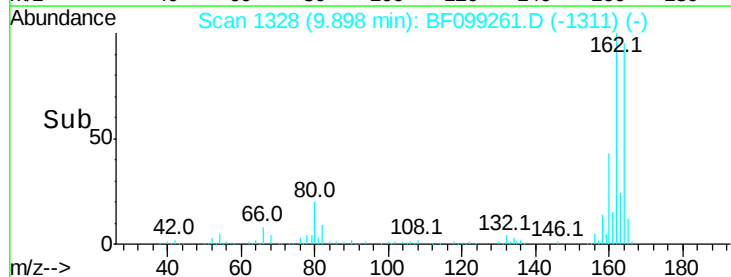
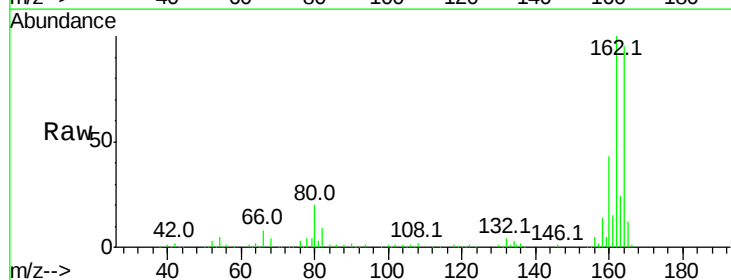
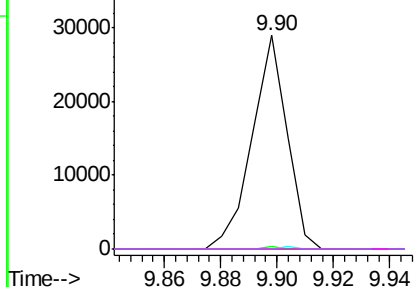
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 36.4  | 54.6# |
| 89      | 0.0   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

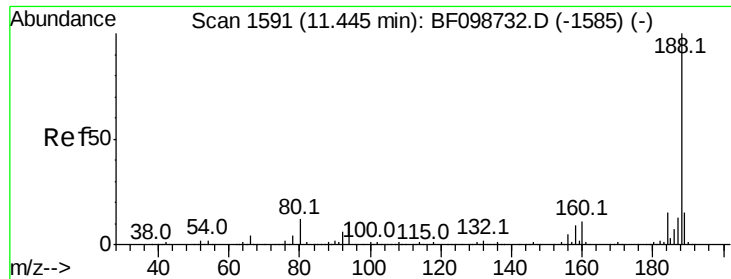
Abundance Ion 165.00 (164.70 to 165.70): E

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

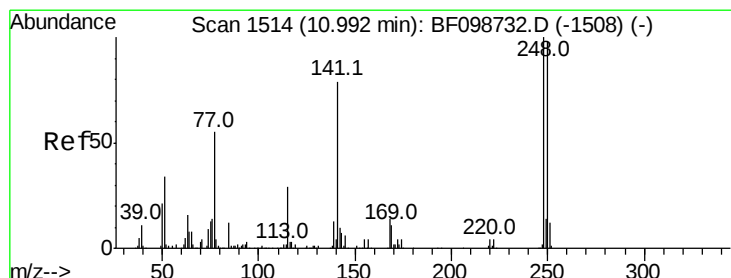
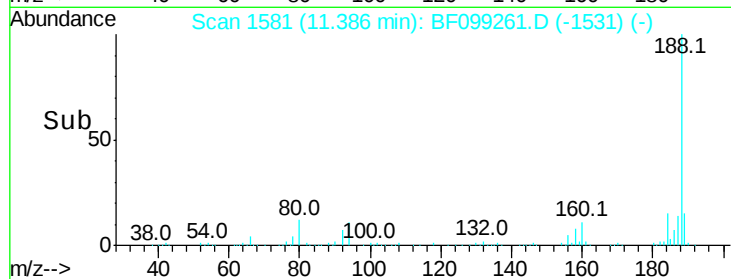
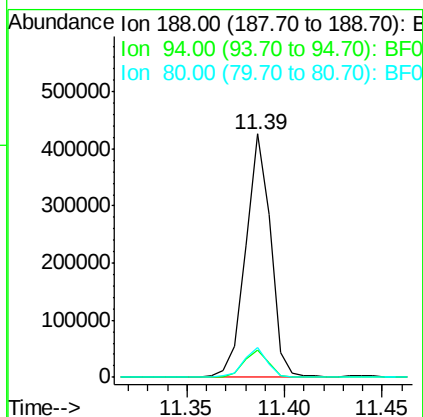
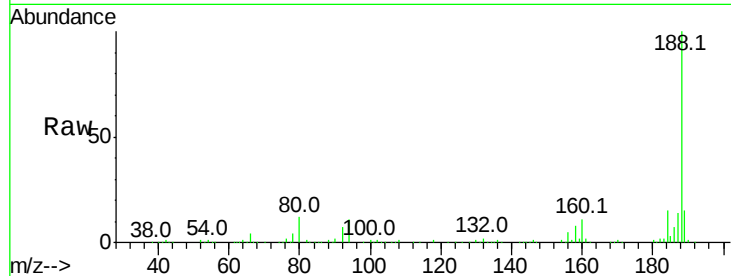




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1581  
 Delta R.T. -0.01 min  
 Lab File: BF099261.D  
 Acq: 9 Oct 2017 14:42

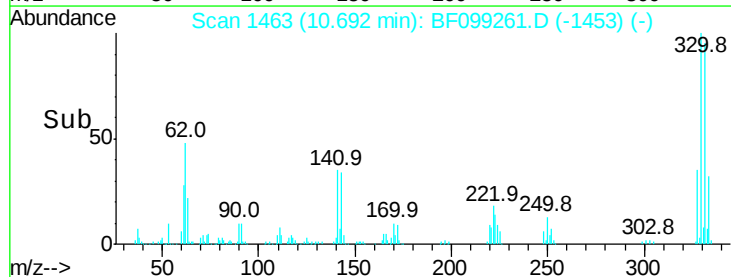
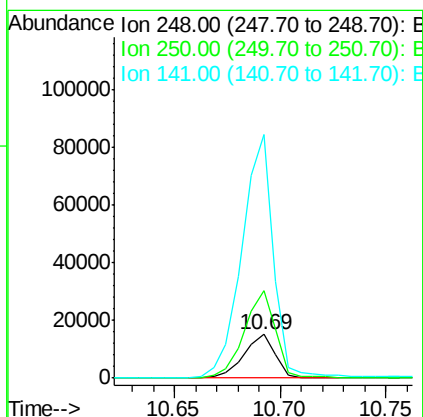
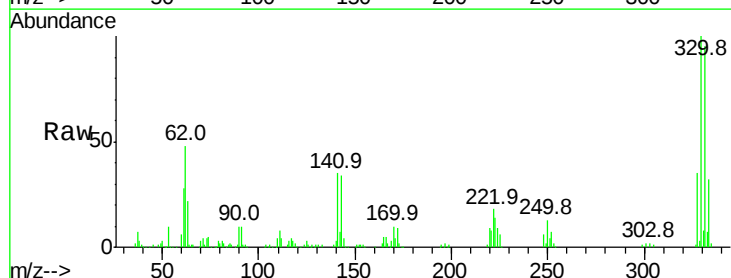
Instrument :  
 BNA\_F  
 ClientSampleId :

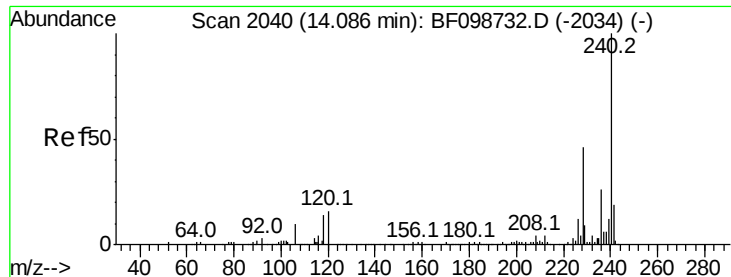
Tot Ion:188 Resp: 377546  
 Ion Ratio Lower Upper  
 188 100  
 94 11.1 8.5 12.7  
 80 12.1 9.2 13.8



#66  
 4-Bromophenyl-phenylether  
 Concen: 4.254 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.24 min  
 Lab File: BF099261.D  
 Acq: 9 Oct 2017 14:42

Tgt Ion:248 Resp: 15722  
 Ion Ratio Lower Upper  
 248 100  
 250 199.6 76.9 115.3#  
 141 557.5 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF099261.D

Acq: 9 Oct 2017 14:42

Instrument :

BNA\_F

ClientSampleId :

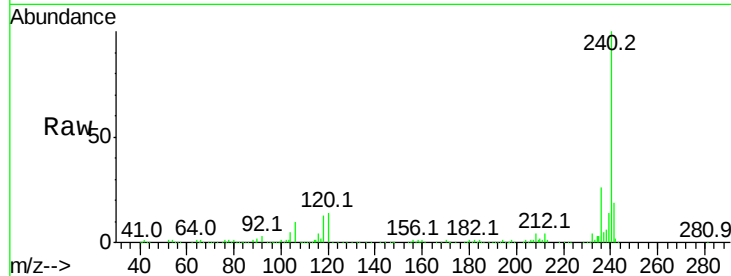
Tot Ion:240 Resp: 318062

Ion Ratio Lower Upper

240 100

120 14.1 9.5 14.3

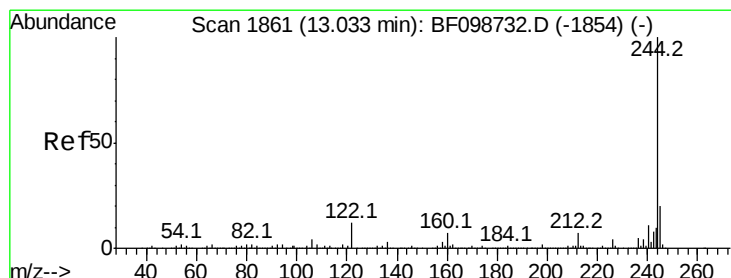
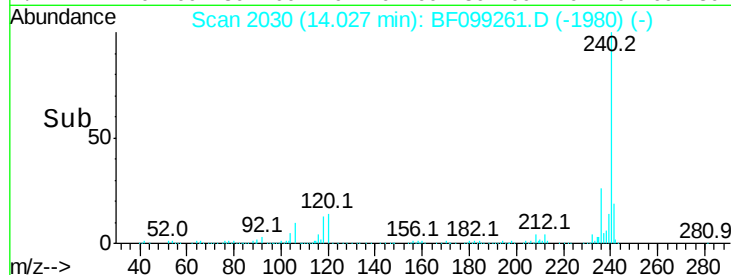
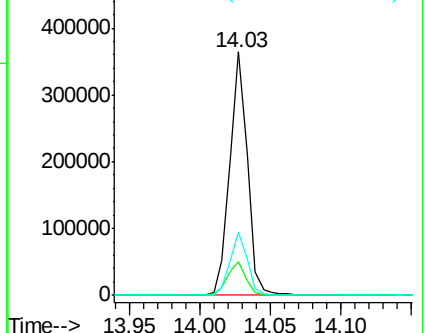
236 26.1 20.7 31.1



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: 82.767 ng

RT: 12.97 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BF099261.D

Acq: 9 Oct 2017 14:42

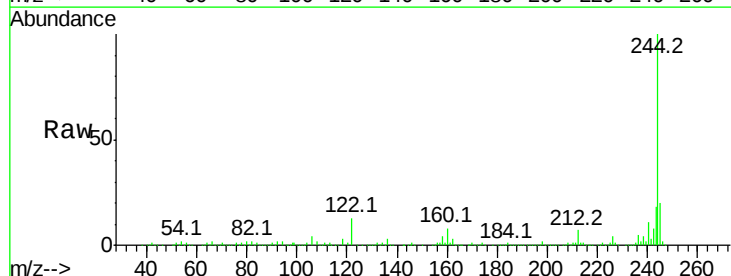
Tgt Ion:244 Resp: 1157550

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

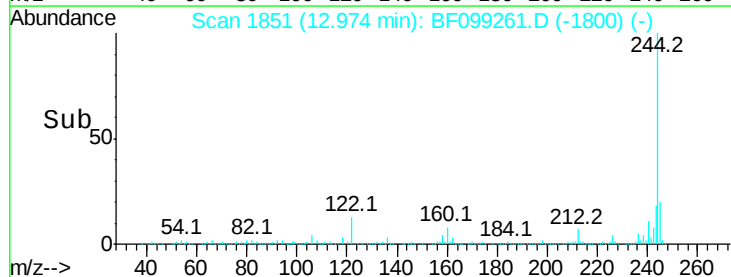
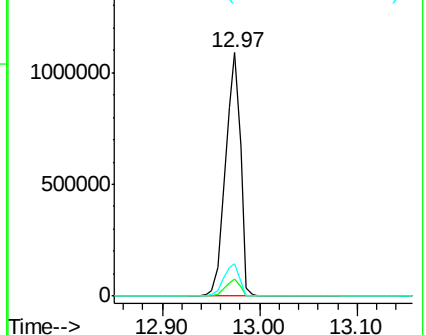
122 13.5 11.0 16.4

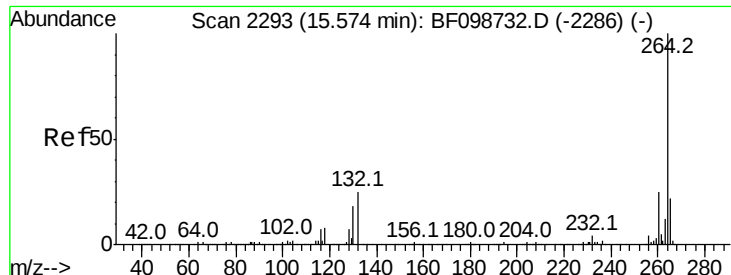


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

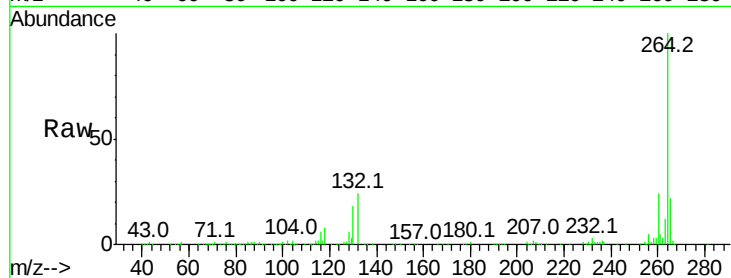




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.50 min Scan# 2281  
 Delta R.T. -0.00 min  
 Lab File: BF099261.D  
 Acq: 9 Oct 2017 14:42

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:264 Resp: 279673  
 Ion Ratio Lower Upper  
 264 100  
 260 24.0 19.2 28.8  
 265 21.6 17.5 26.3



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

