

Data Path : Z:\HPCHEM1\BNA F\DATA\BF103017\  
 Data File : BF099970.D  
 Acq On : 30 Oct 2017 19:54  
 Operator : SJ/JU  
 Sample : I6171-10RE  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 31 02:28:57 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 27 15:58:57 2017  
 Response via : Initial Calibration

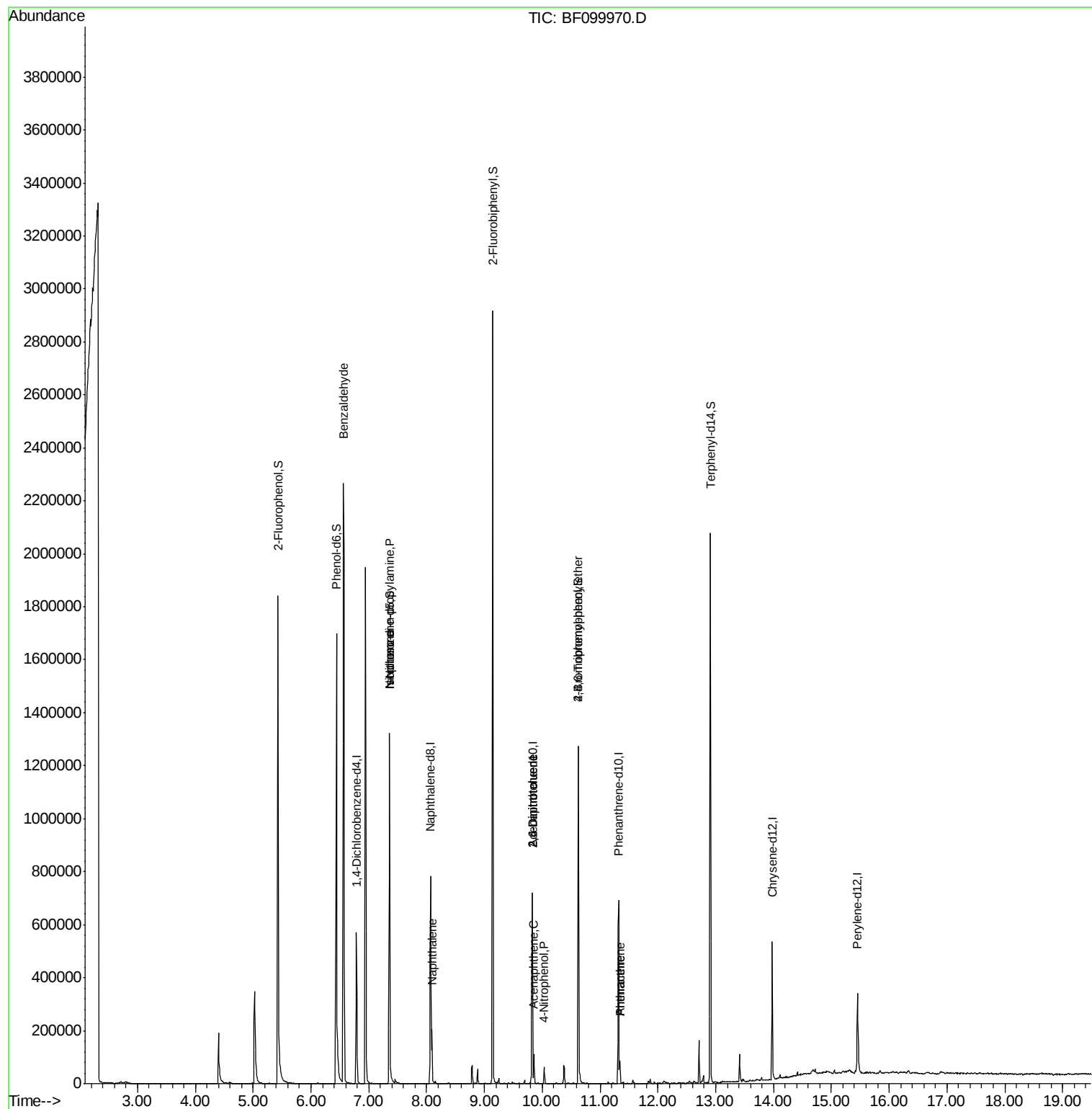
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.79  | 152  | 89482    | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8             | 8.07  | 136  | 358798   | 20.00  | ng    | -0.01     |
| 38) Acenaphthene-d10           | 9.82  | 164  | 159200   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10           | 11.32 | 188  | 253462   | 20.00  | ng    | -0.01     |
| 75) Chrysene-d12               | 13.97 | 240  | 168386   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12               | 15.46 | 264  | 147100   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.43  | 112  | 703254   | 123.39 | ng    | 0.01      |
| 7) Phenol-d6                   | 6.44  | 99   | 764668   | 113.15 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 496539   | 89.10  | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 10.63 | 330  | 180031   | 124.09 | ng    | -0.01     |
| 44) 2-Fluorobiphenyl           | 9.15  | 172  | 1009590  | 97.84  | ng    | -0.01     |
| 78) Terphenyl-d14              | 12.91 | 244  | 727135   | 94.37  | ng    | -0.01     |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 6.56  | 77   | 12705    | 3.146  | ng    | Qvalue 96 |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 62184    | 15.701 | ng    | # 72      |
| 25) Isophorone                 | 7.36  | 82   | 496539   | 49.100 | ng    | # 64      |
| 31) Naphthalene                | 8.09  | 128  | 102711   | 5.930  | ng    | # 99      |
| 50) 2,6-Dinitrotoluene         | 9.82  | 165  | 20026    | 7.556  | ng    | # 25      |
| 51) Acenaphthene               | 9.86  | 154  | 24158    | 2.454  | ng    | # 94      |
| 55) 4-Nitrophenol              | 10.03 | 139  | 9162     | 5.615  | ng    | # 9       |
| 56) 2,4-Dinitrotoluene         | 9.82  | 165  | 20026    | 6.274  | ng    | # 22      |
| 66) 4-Bromophenyl-phenylether  | 10.62 | 248  | 12084    | 4.529  | ng    | # 1       |
| 70) Phenanthrene               | 11.35 | 178  | 35605    | 2.489  | ng    | # 96      |
| 71) Anthracene                 | 11.35 | 178  | 35605    | 2.452  | ng    | # 97      |

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

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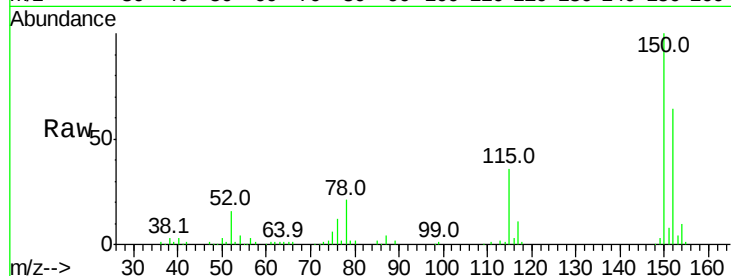


#1

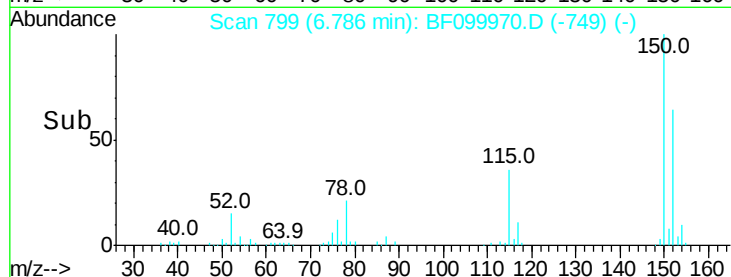
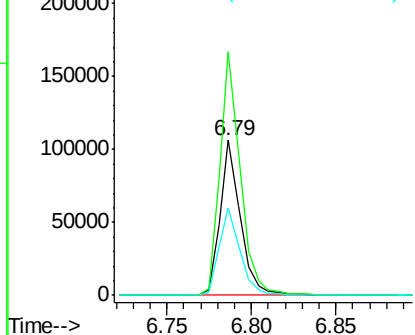
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.79 min Scan# 799  
 Delta R.T. -0.01 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 89482  
 Ion Ratio Lower Upper  
 152 100  
 150 157.4 124.6 186.8  
 115 56.5 50.1 75.1



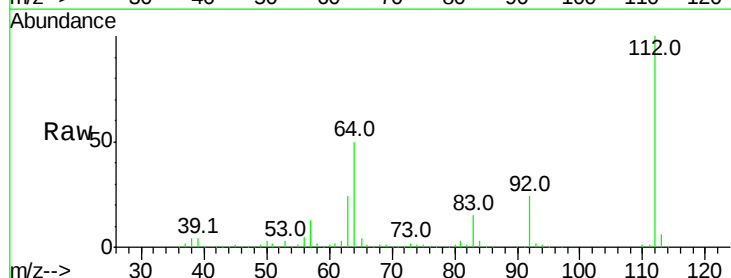
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



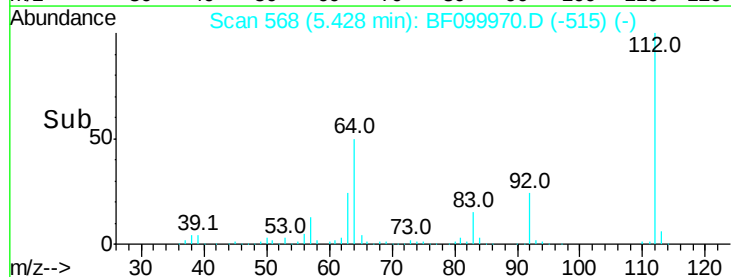
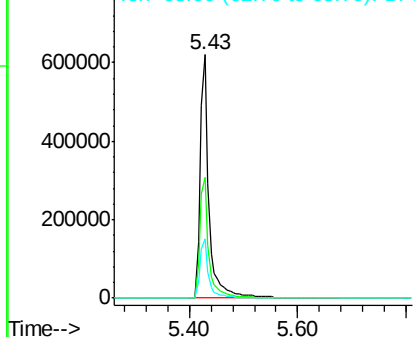
#5

2-Fluorophenol  
 Concen: 123.386 ng  
 RT: 5.43 min Scan# 568  
 Delta R.T. 0.01 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

Tgt Ion:112 Resp: 703254  
 Ion Ratio Lower Upper  
 112 100  
 64 49.5 47.9 71.9  
 63 24.3 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: 113.148 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.00 min

Lab File: BF099970.D

Acq: 30 Oct 2017 19:54

Instrument :

BNA\_F

ClientSampleId :

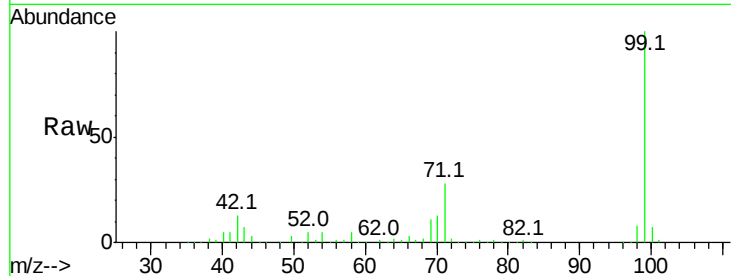
Tot Ion: 99 Resp: 764668

Ion Ratio Lower Upper

99 100

42 13.4 14.5 21.7#

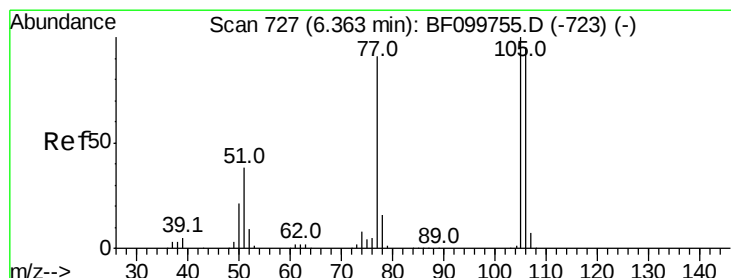
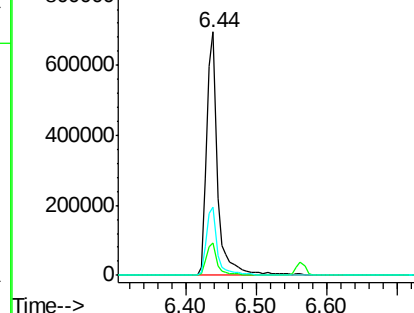
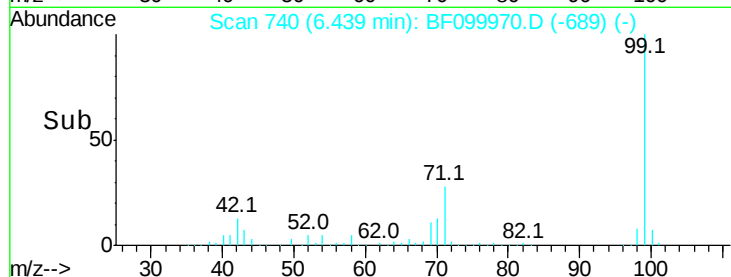
71 28.3 25.4 38.0



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



#9

Benzaldehyde

Concen: 3.146 ng

RT: 6.56 min Scan# 761

Delta R.T. 0.21 min

Lab File: BF099970.D

Acq: 30 Oct 2017 19:54

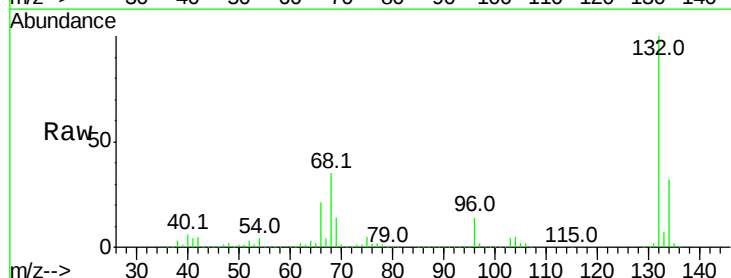
Tgt Ion: 77 Resp: 12705

Ion Ratio Lower Upper

77 100

105 94.8 81.1 121.1

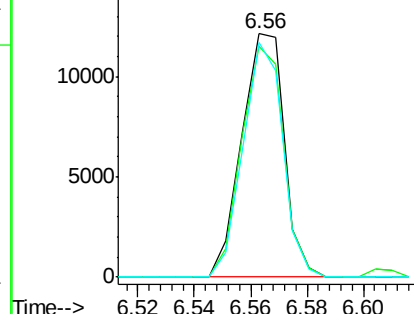
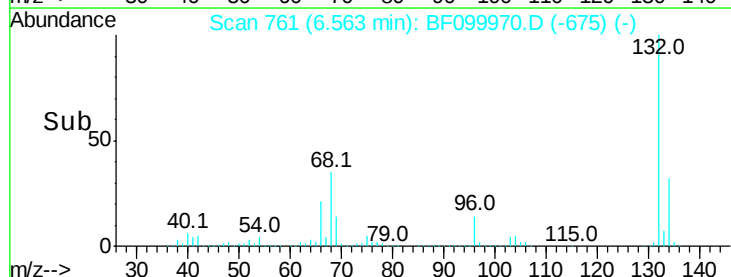
106 96.2 74.5 114.5

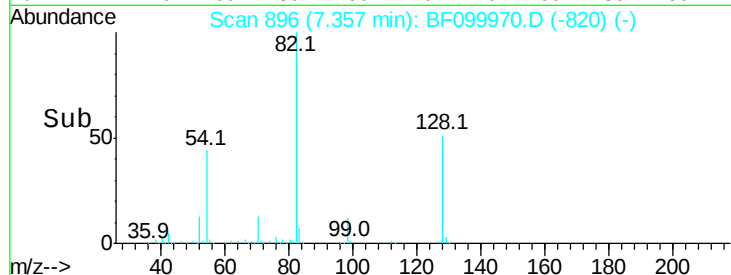
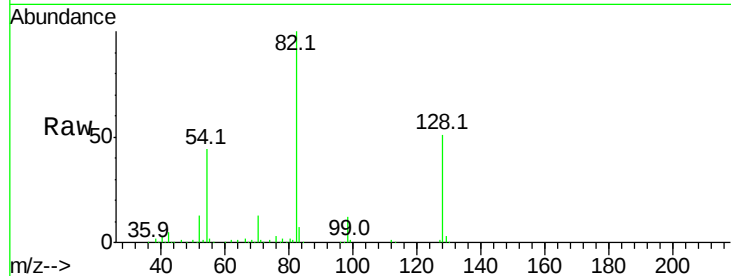
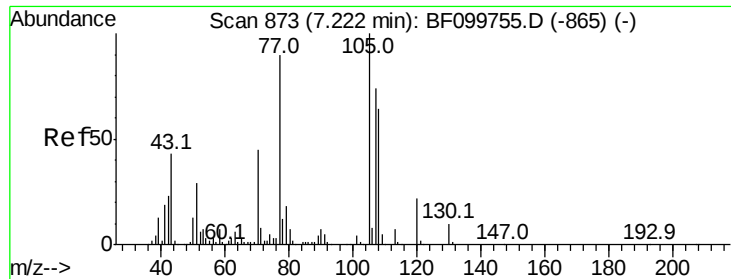


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

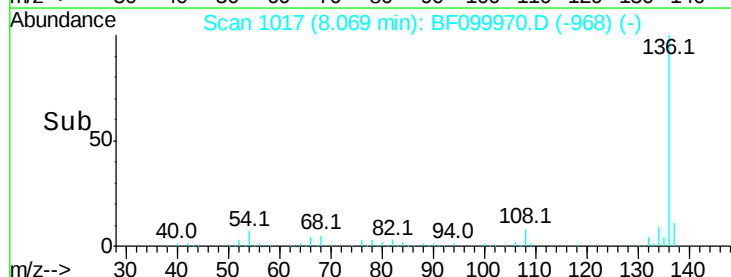
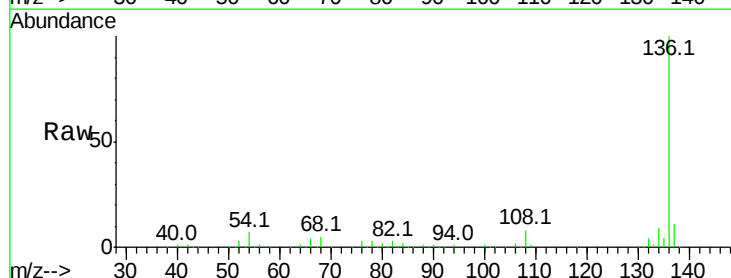
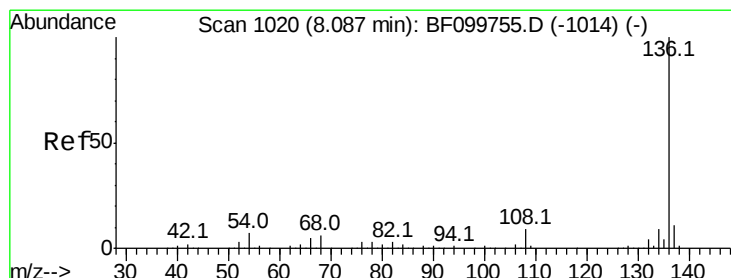
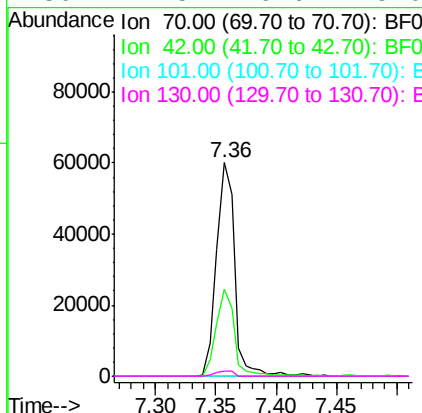




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.701 ng  
RT: 7.36 min Scan# 896  
Delta R.T. 0.15 min  
Lab File: BF099970.D  
Acq: 30 Oct 2017 19:54

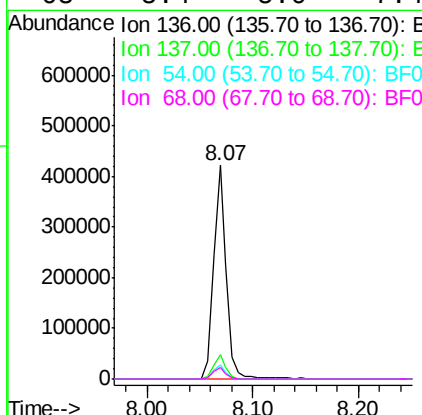
Instrument :  
BNA\_F  
ClientSampleId :

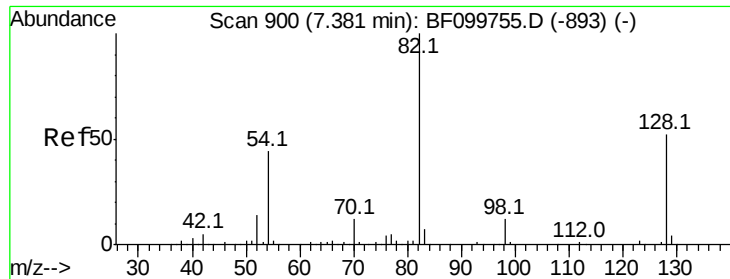
Tot Ion: 70 Resp: 62184  
Ion Ratio Lower Upper  
70 100  
42 40.8 47.5 71.3#  
101 0.0 7.4 11.2#  
130 2.5 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1017  
Delta R.T. -0.01 min  
Lab File: BF099970.D  
Acq: 30 Oct 2017 19:54

Tgt Ion:136 Resp: 358798  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.9 13.3  
54 6.6 6.6 9.8  
68 5.4 5.0 7.4

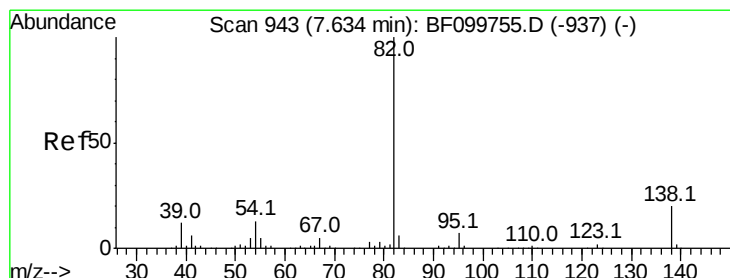
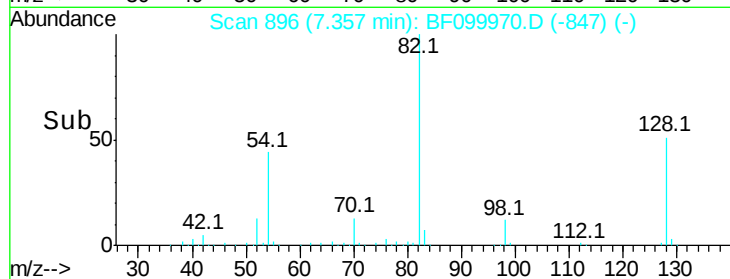
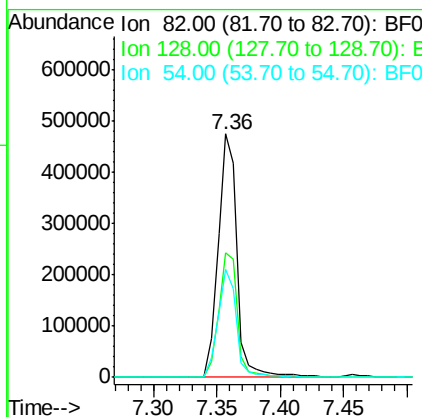
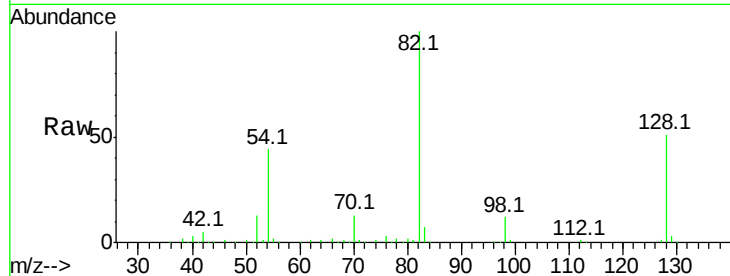




#23  
 Nitrobenzene-d5  
 Concen: 89.096 ng  
 RT: 7.36 min Scan# 896  
 Delta R.T. -0.01 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

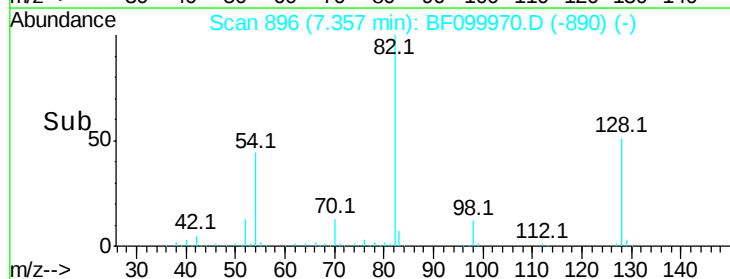
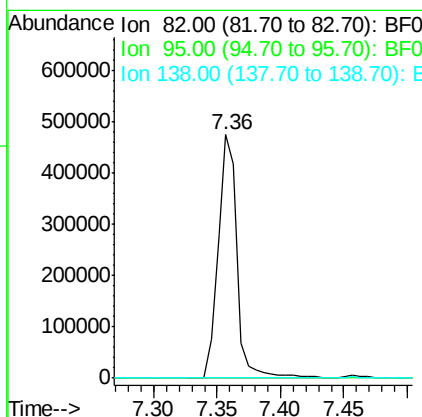
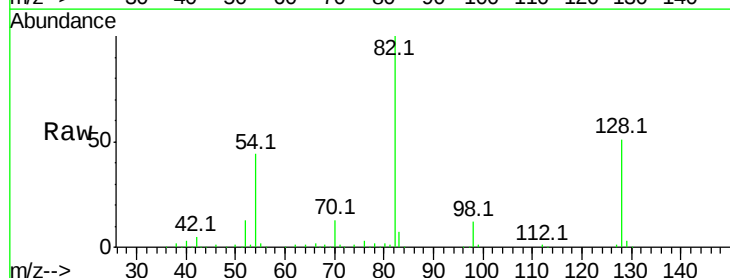
Instrument :  
 BNA\_F  
 ClientSampleId :

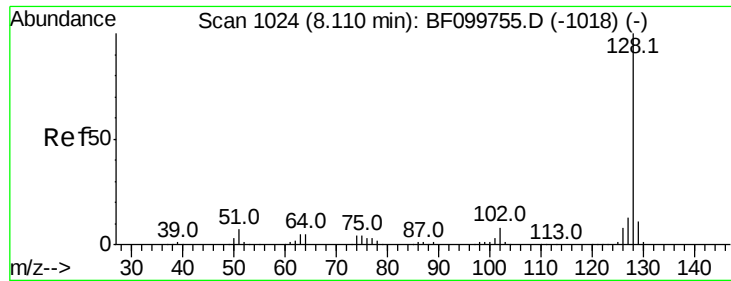
Tot Ion: 82 Resp: 496539  
 Ion Ratio Lower Upper  
 82 100  
 128 51.1 36.1 54.1  
 54 44.2 41.4 62.2



#25  
 Isophorone  
 Concen: 49.100 ng  
 RT: 7.36 min Scan# 896  
 Delta R.T. -0.26 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

Tgt Ion: 82 Resp: 496539  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.2 7.8#  
 138 0.0 14.9 22.3#

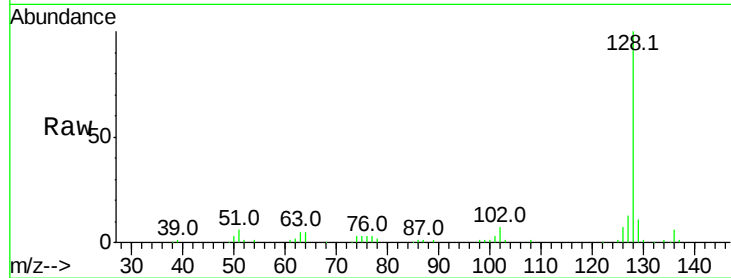




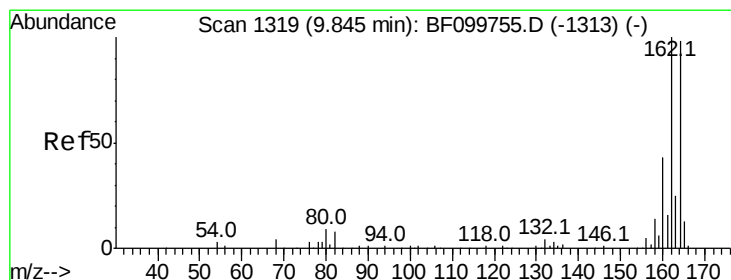
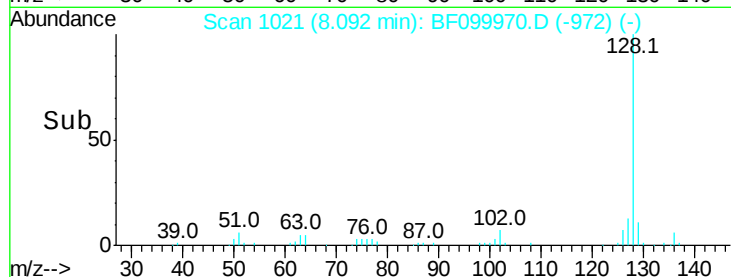
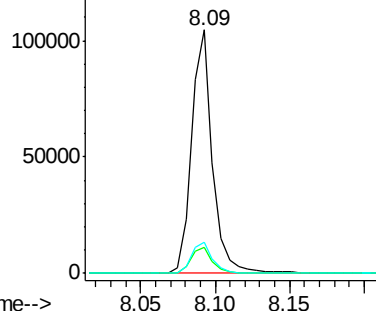
#31  
Naphthalene  
Concen: 5.930 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.01 min  
Lab File: BF099970.D  
Acq: 30 Oct 2017 19:54

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:128 Resp: 102711  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.8 13.2  
127 12.8 10.9 16.3

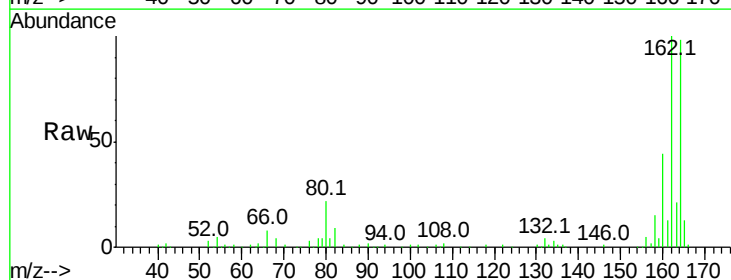


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

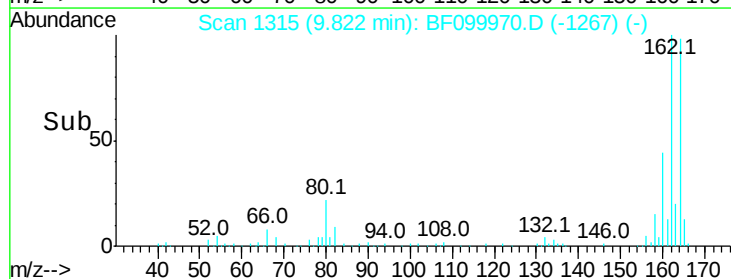
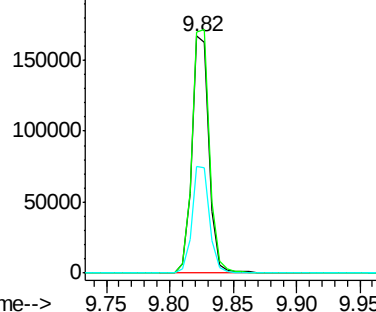


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.82 min Scan# 1315  
Delta R.T. -0.02 min  
Lab File: BF099970.D  
Acq: 30 Oct 2017 19:54

Tgt Ion:164 Resp: 159200  
Ion Ratio Lower Upper  
164 100  
162 101.8 86.1 129.1  
160 44.8 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

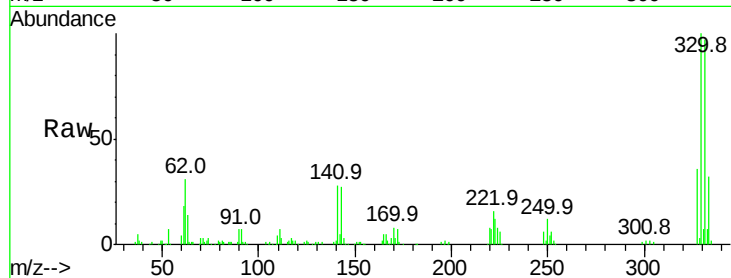




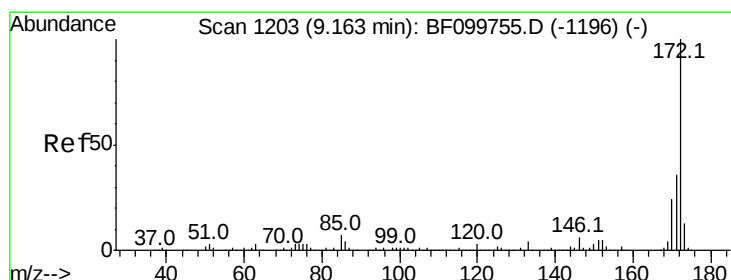
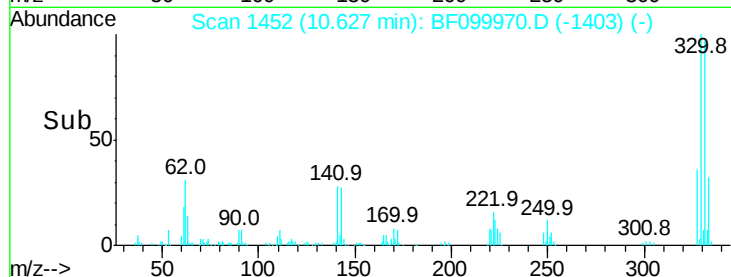
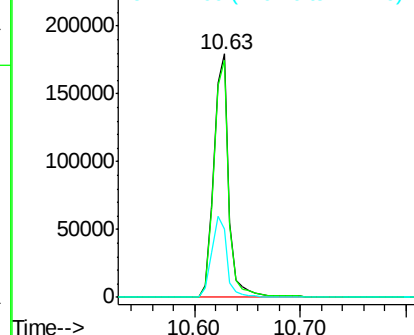
#41  
 2,4,6-Tribromophenol  
 Concen: 124.089 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. -0.01 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.2  | 77.0  | 115.6 |
| 141     | 34.0  | 29.9  | 44.9  |

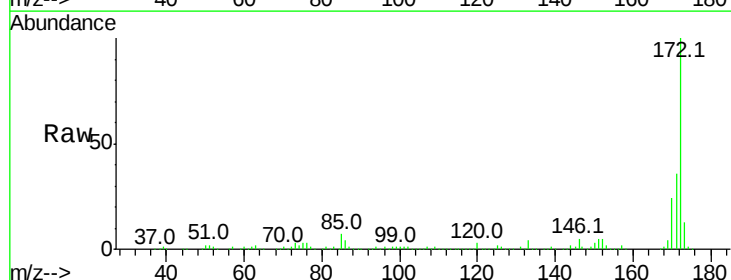


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

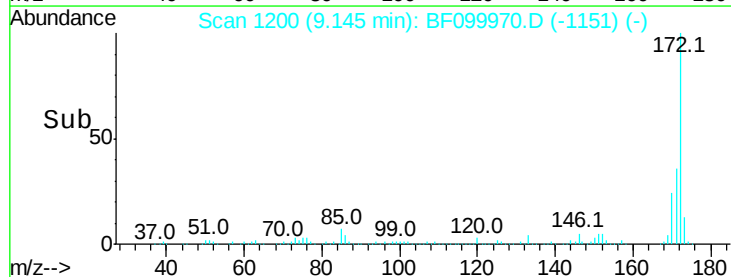
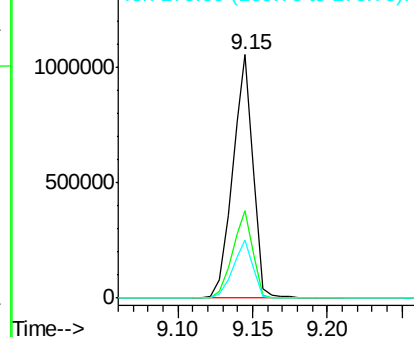


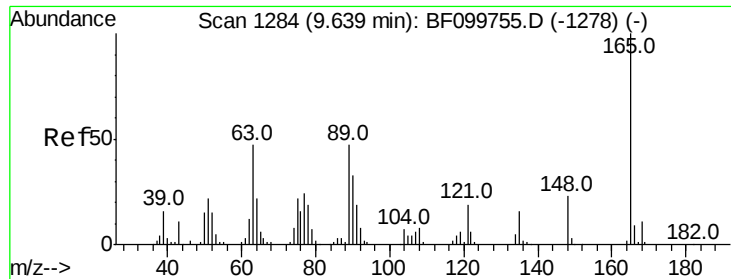
#44  
 2-Fluorobiphenyl  
 Concen: 97.841 ng  
 RT: 9.15 min Scan# 1200  
 Delta R.T. -0.01 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.7  | 44.5  |
| 170     | 23.8  | 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

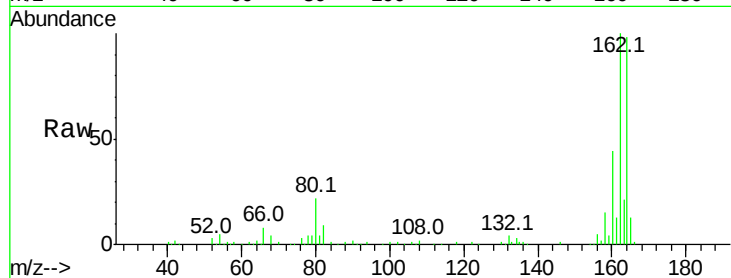




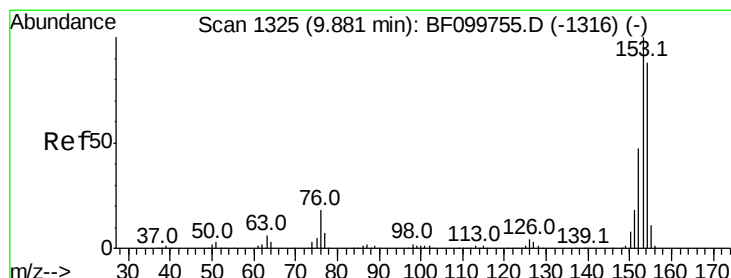
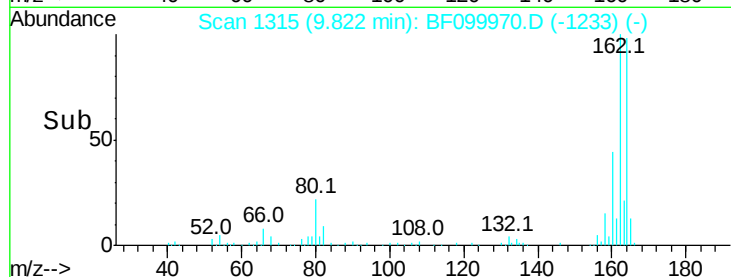
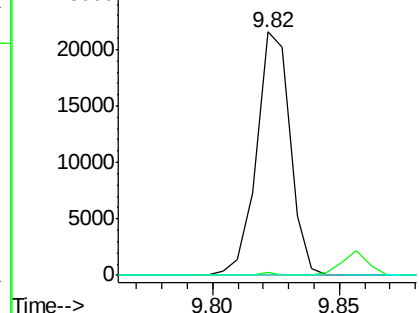
#50  
 2,6-Dinitrotoluene  
 Concen: 7.556 ng  
 RT: 9.82 min Scan# 1315  
 Delta R.T. 0.18 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |

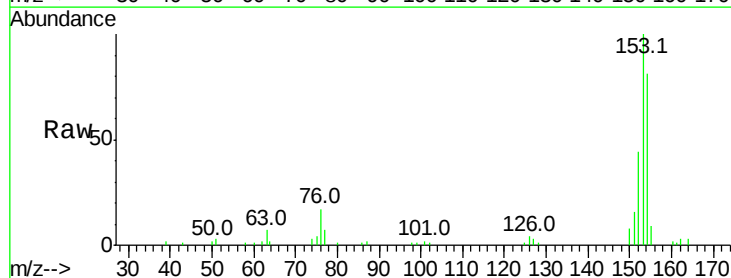


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

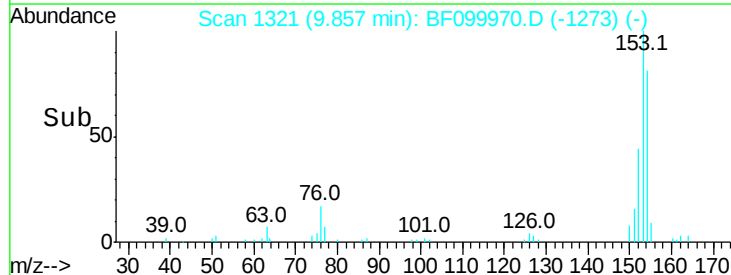
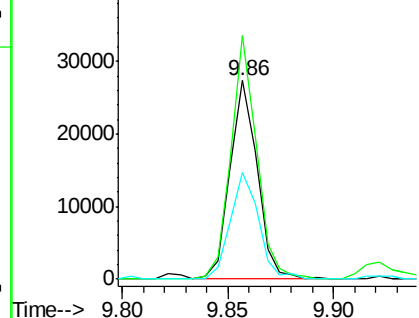


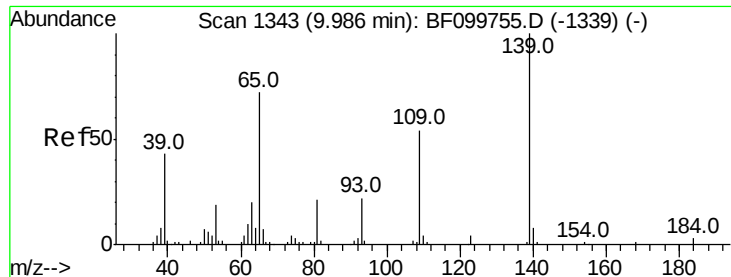
#51  
 Acenaphthene  
 Concen: 2.454 ng  
 RT: 9.86 min Scan# 1321  
 Delta R.T. -0.02 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 122.8 | 91.2  | 136.8 |
| 152     | 53.9  | 43.8  | 65.8  |



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 152.00 (151.70 to 152.70): E





#55

4-Nitrophenol

Concen: 5.615 ng

RT: 10.03 min Scan# 1351

Delta R.T. 0.04 min

Lab File: BF099970.D

Acq: 30 Oct 2017 19:54

Instrument :

BNA\_F

ClientSampled :

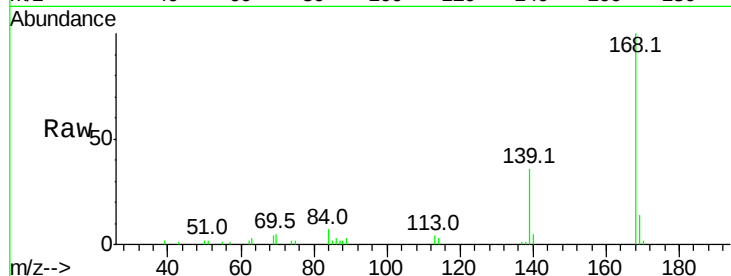
Tot Ion:139 Resp: 9162

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

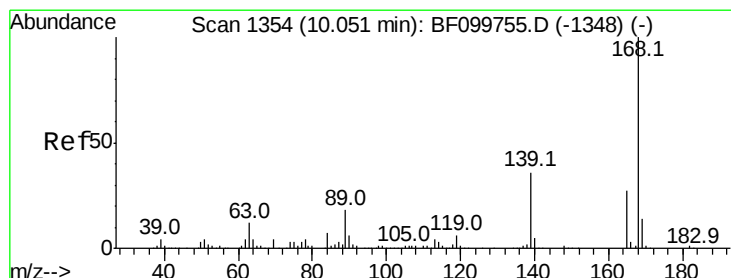
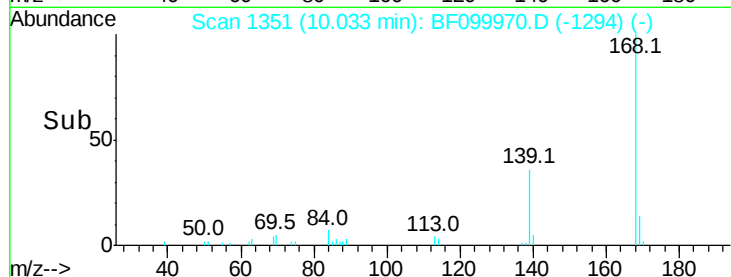
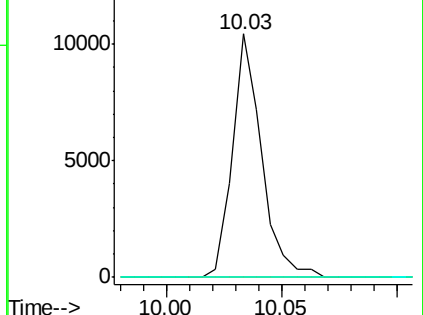
65 0.0 72.6 112.6#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#56

2,4-Dinitrotoluene

Concen: 6.274 ng

RT: 9.82 min Scan# 1315

Delta R.T. -0.23 min

Lab File: BF099970.D

Acq: 30 Oct 2017 19:54

Tgt Ion:165 Resp: 20026

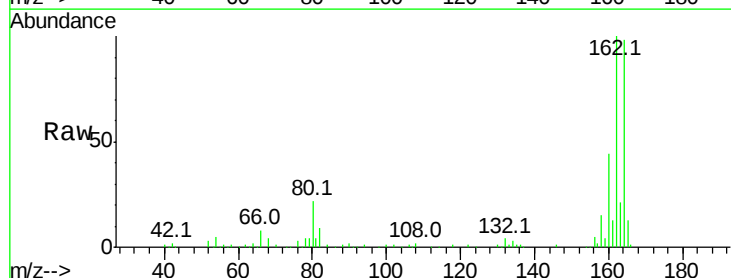
Ion Ratio Lower Upper

165 100

63 1.4 36.4 54.6#

89 0.0 57.8 86.6#

182 0.0 1.6 2.4#

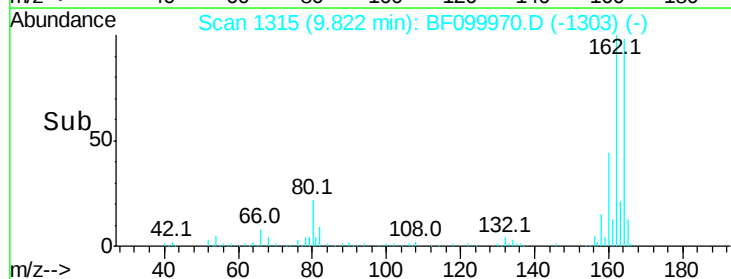
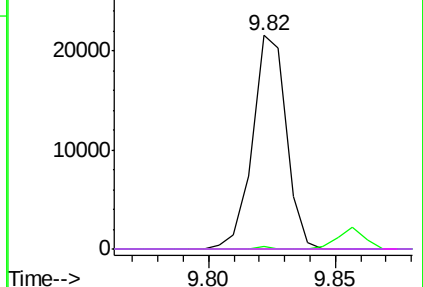


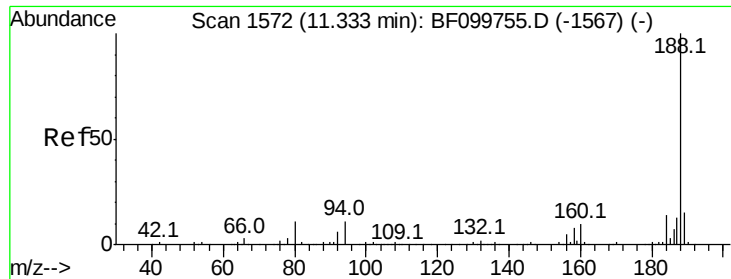
Abundance Ion 165.00 (164.70 to 165.70): E

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

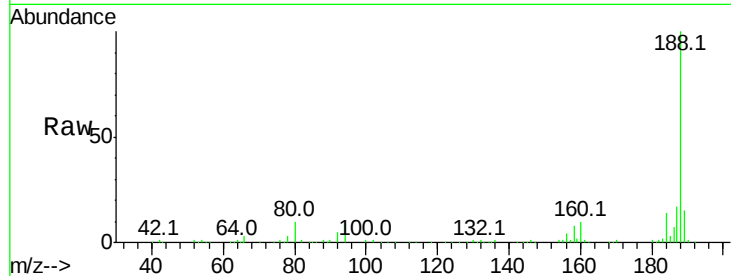




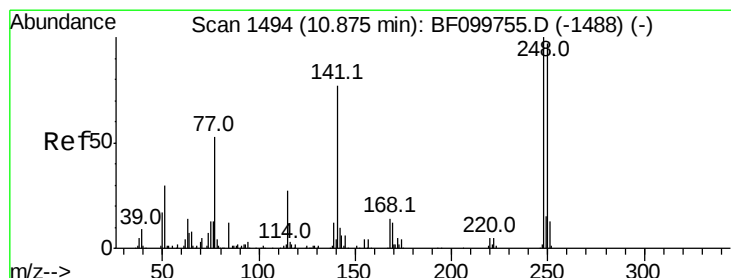
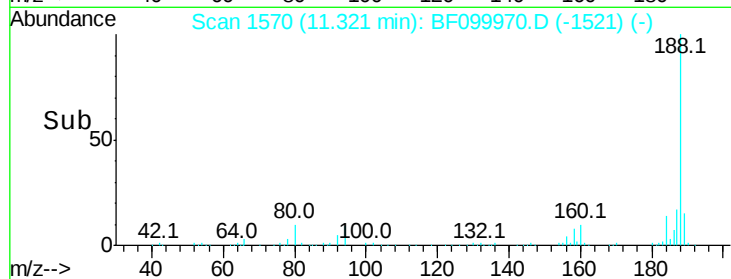
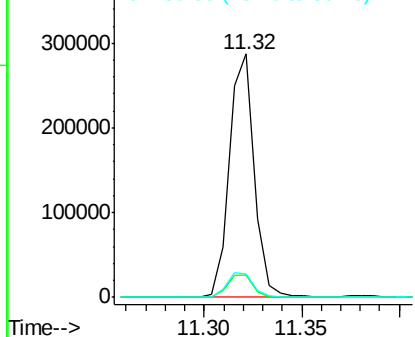
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.32 min Scan# 1570  
 Delta R.T. -0.01 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.2   | 8.5   | 12.7  |
| 80      | 9.5   | 9.2   | 13.8  |

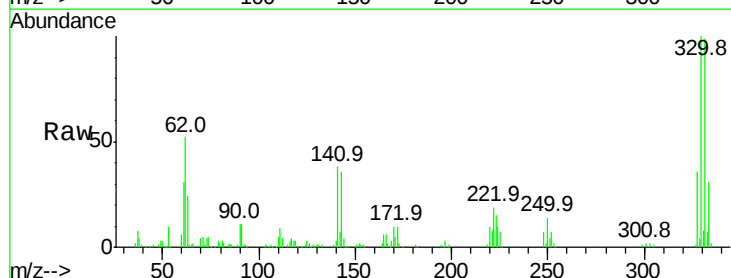


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

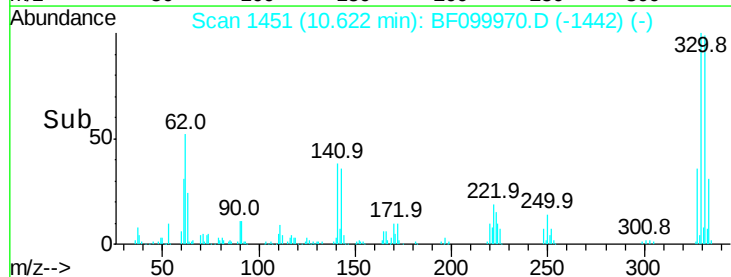
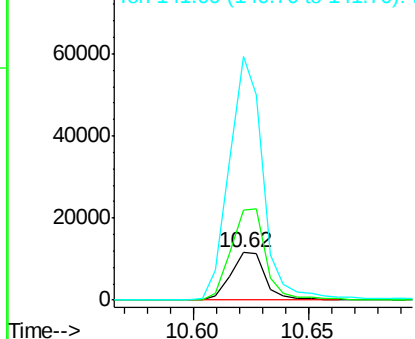


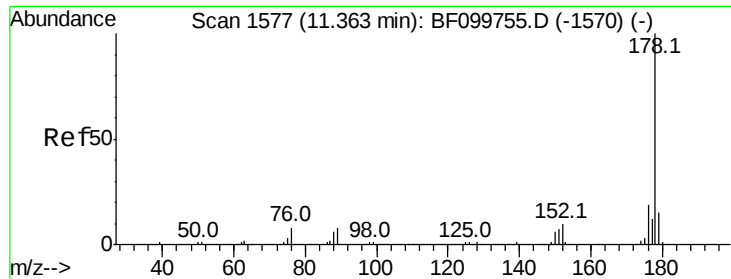
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.529 ng  
 RT: 10.62 min Scan# 1451  
 Delta R.T. -0.25 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 191.6 | 76.9  | 115.3# |
| 141     | 515.4 | 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

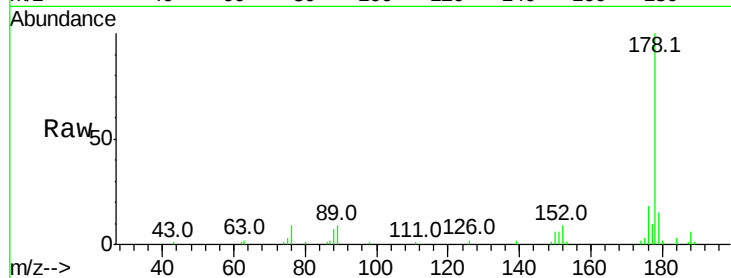




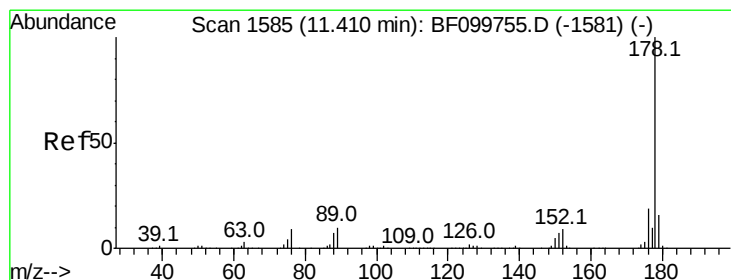
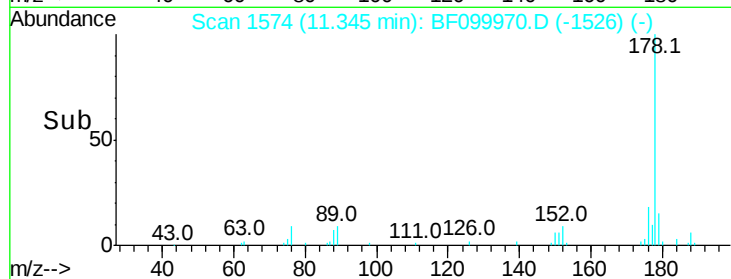
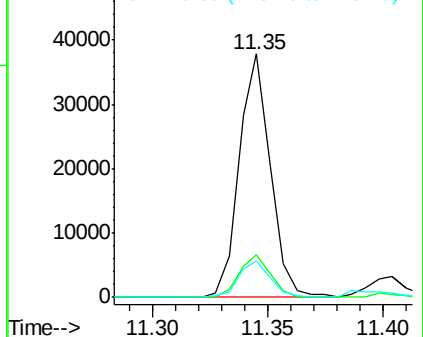
#70  
Phenanthrene  
Concen: 2.489 ng  
RT: 11.35 min Scan# 1574  
Delta R.T. -0.02 min  
Lab File: BF099970.D  
Acq: 30 Oct 2017 19:54

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:178 Resp: 35605  
Ion Ratio Lower Upper  
178 100  
176 17.7 15.8 23.8  
179 14.8 13.0 19.6

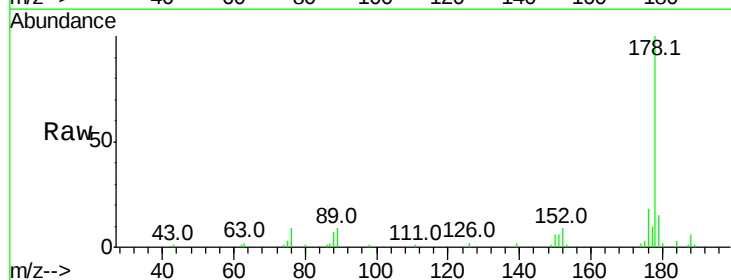


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

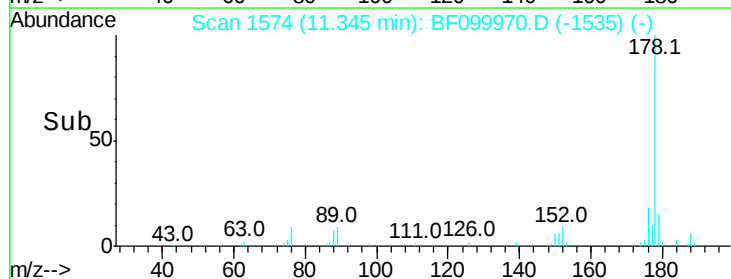
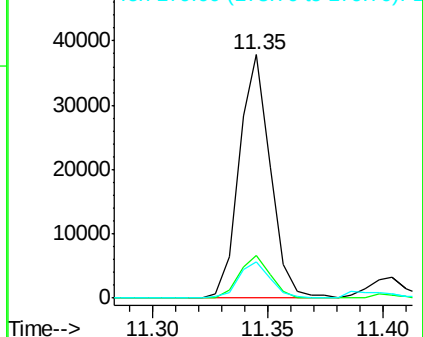


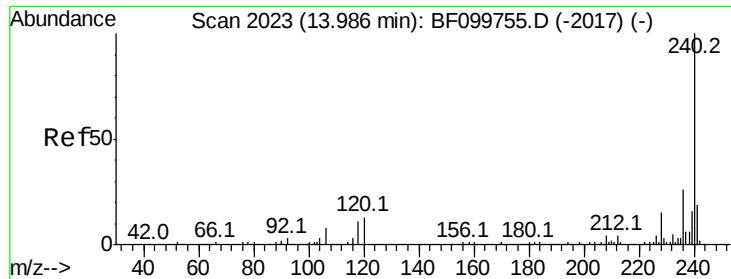
#71  
Anthracene  
Concen: 2.452 ng  
RT: 11.35 min Scan# 1574  
Delta R.T. -0.07 min  
Lab File: BF099970.D  
Acq: 30 Oct 2017 19:54

Tgt Ion:178 Resp: 35605  
Ion Ratio Lower Upper  
178 100  
176 17.7 15.4 23.2  
179 14.8 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

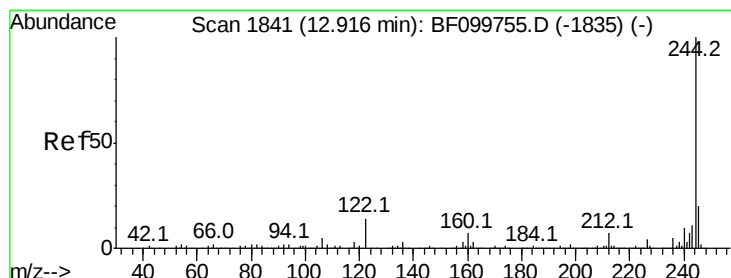
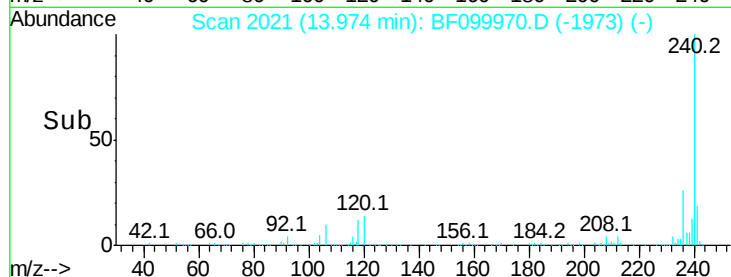
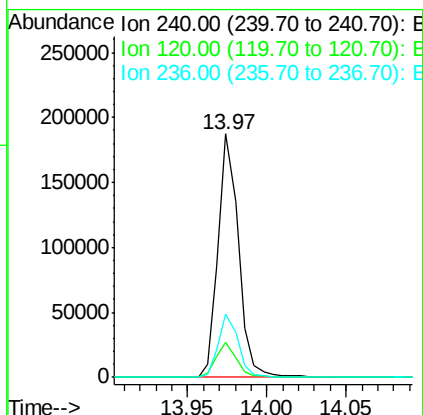
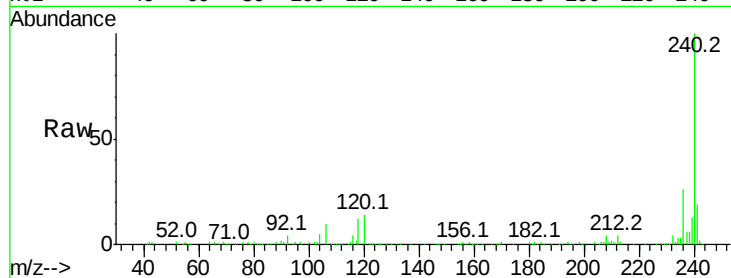




#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.97 min Scan# 2021  
 Delta R.T. -0.02 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

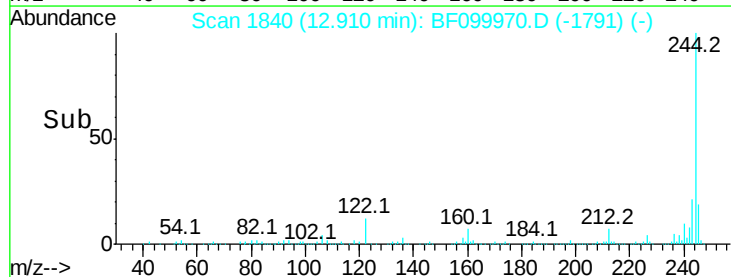
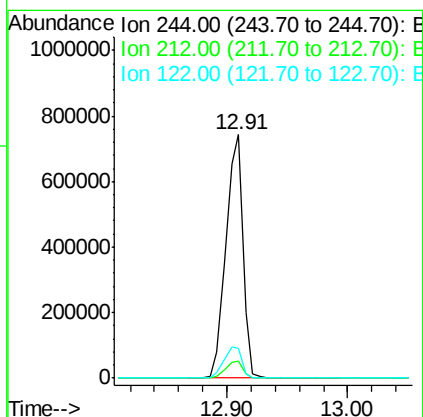
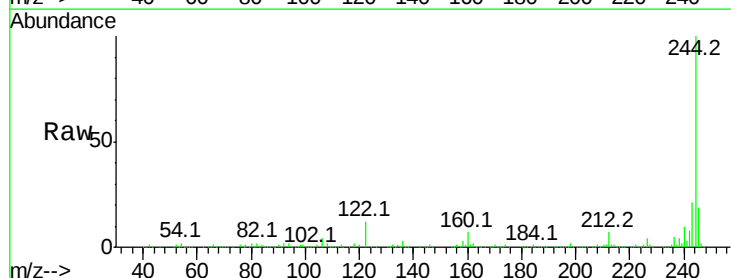
Instrument :  
 BNA\_F  
 ClientSampleId :

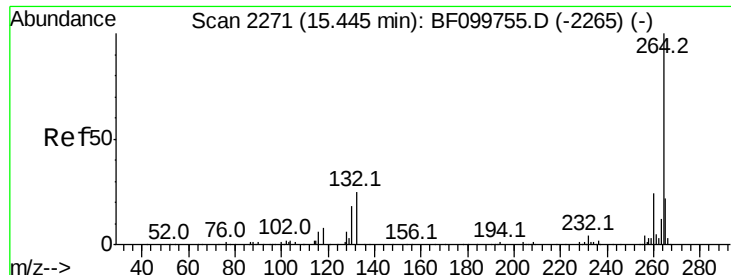
Tot Ion:240 Resp: 168386  
 Ion Ratio Lower Upper  
 240 100  
 120 14.2 9.5 14.3  
 236 25.7 20.7 31.1



#78  
 Terphenyl-d14  
 Concen: 94.370 ng  
 RT: 12.91 min Scan# 1840  
 Delta R.T. -0.01 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

Tgt Ion:244 Resp: 727135  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 5.4 8.0  
 122 12.2 11.0 16.4

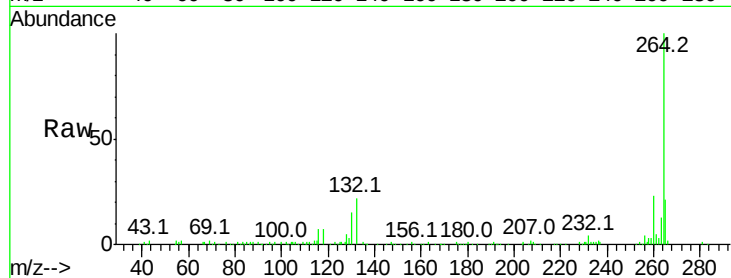




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.46 min Scan# 2273  
 Delta R.T. -0.00 min  
 Lab File: BF099970.D  
 Acq: 30 Oct 2017 19:54

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 19.2  | 28.8  |
| 265     | 20.7  | 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

