

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100517\  
 Data File : BF099135.D  
 Acq On : 6 Oct 2017 8:11  
 Operator : SJ/JU  
 Sample : I5644-16  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 06 08:37:26 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

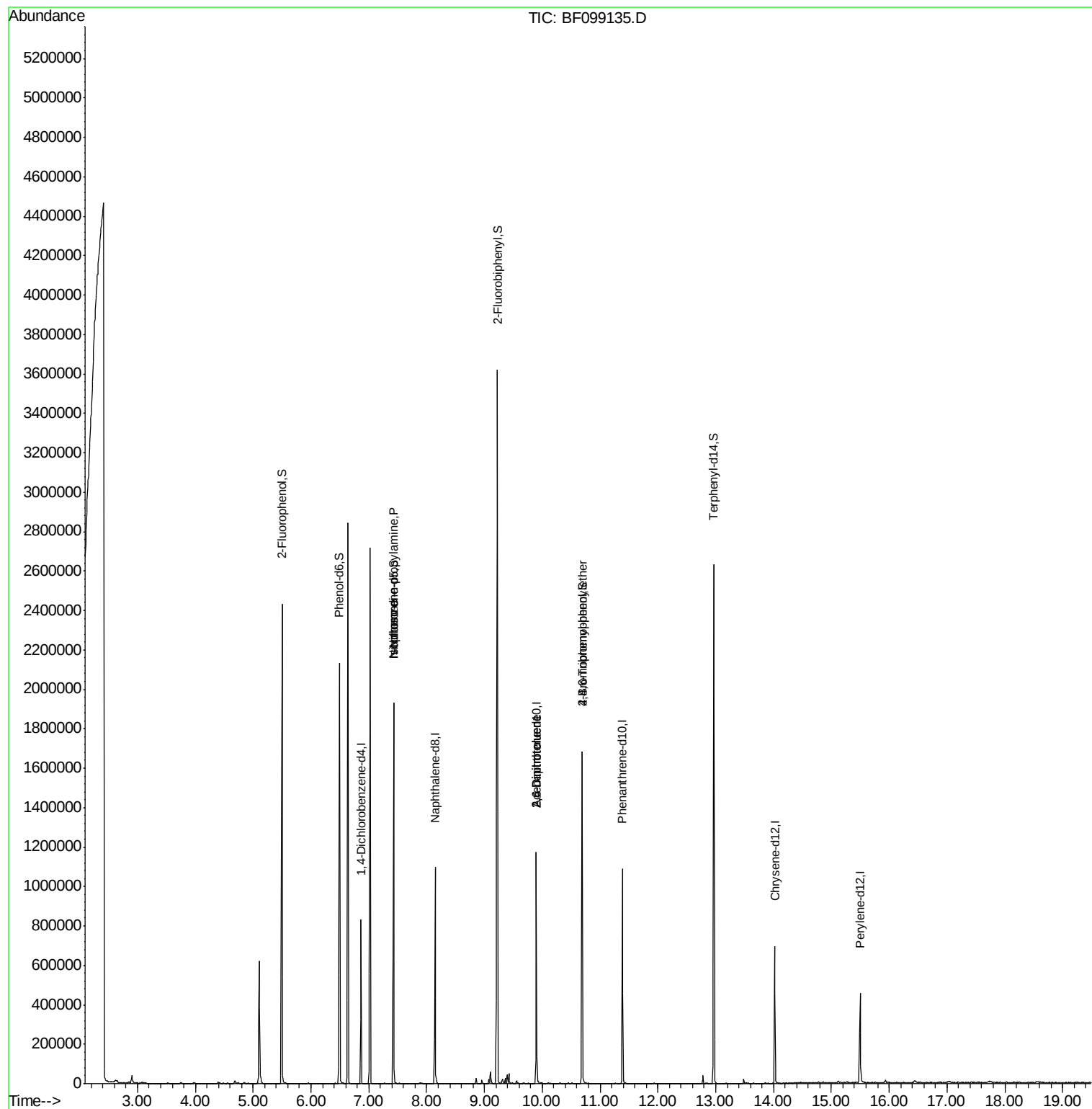
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 115554   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 479248   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.90  | 164  | 212692   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.39 | 188  | 348716   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.02 | 240  | 211637   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.50 | 264  | 203127   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 793855   | 109.36 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.49  | 99   | 836196   | 93.38  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 671614   | 89.87  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.69 | 330  | 215645   | 123.91 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 1182199  | 92.79  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.97 | 244  | 862509   | 92.68  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 86367    | 15.11  | ng    | # 76     |
| 25) Isophorone                 | 7.43  | 82   | 671609   | 43.47  | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165  | 26702    | 7.64   | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 26702    | 5.89   | ng    | # 23     |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248  | 14152    | 4.15   | ng    | # 1      |

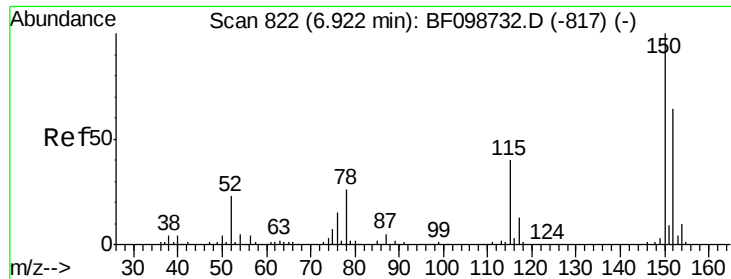
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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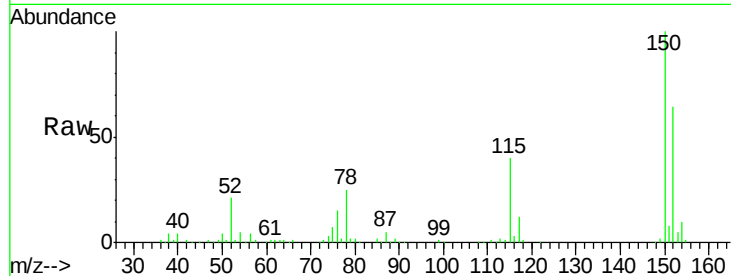


#1

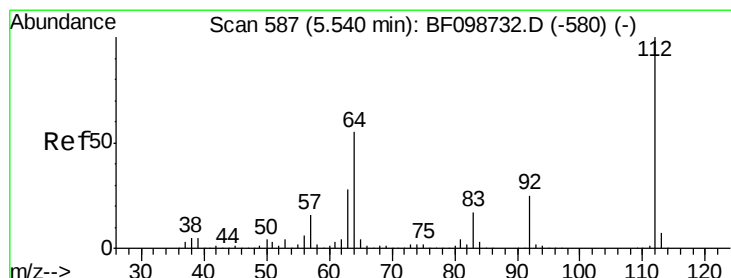
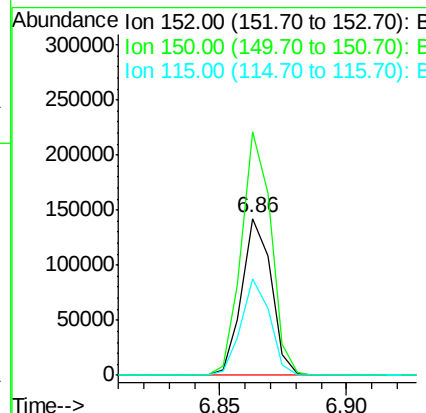
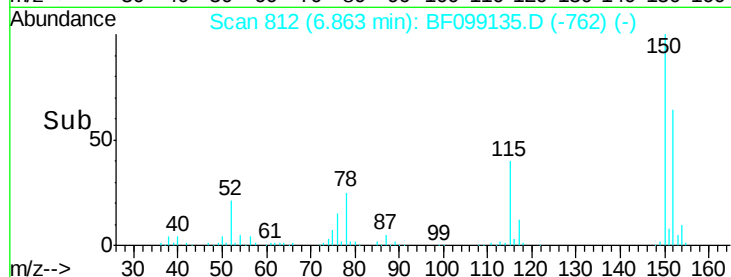
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.86 min Scan# 812  
 Delta R.T. -0.01 min  
 Lab File: BF099135.D  
 Acq: 6 Oct 2017 8:11

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 115554  
 Ion Ratio Lower Upper  
 152 100  
 150 155.1 124.6 186.8  
 115 61.8 50.1 75.1



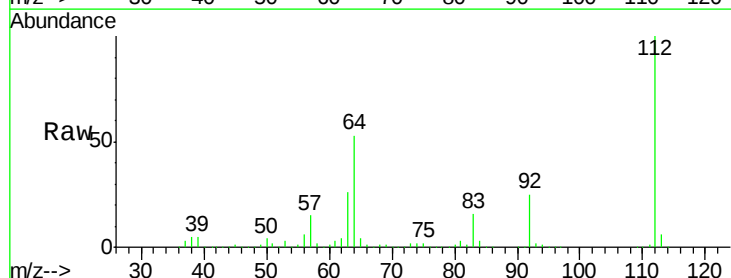
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



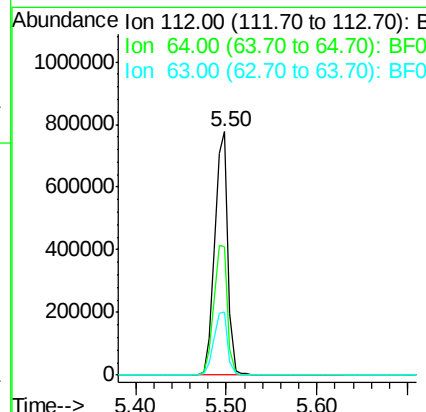
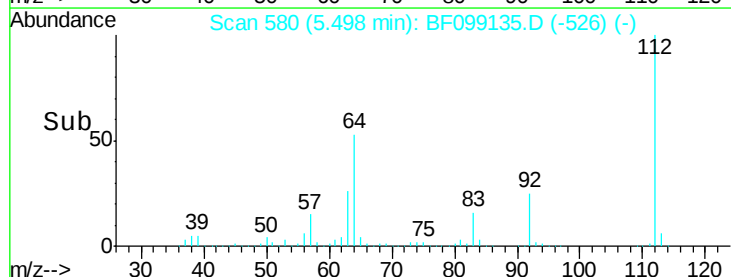
#5

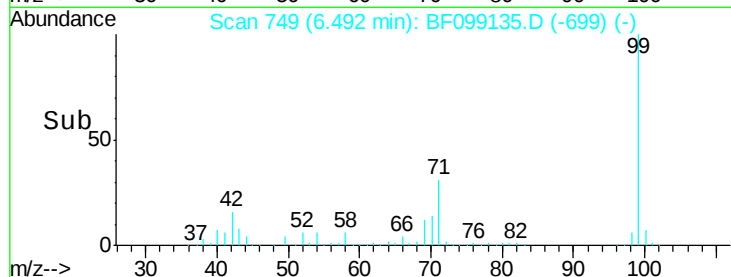
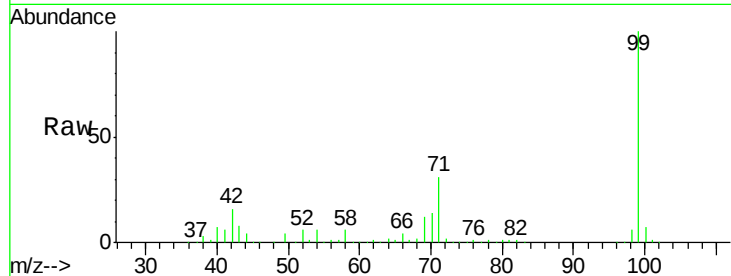
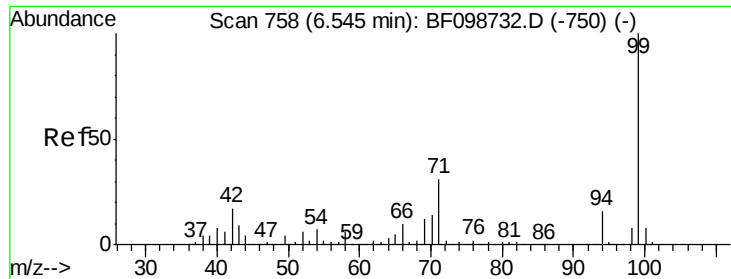
2-Fluorophenol  
 Concen: 109.36 ng  
 RT: 5.50 min Scan# 580  
 Delta R.T. 0.02 min  
 Lab File: BF099135.D  
 Acq: 6 Oct 2017 8:11

Tgt Ion:112 Resp: 793855  
 Ion Ratio Lower Upper  
 112 100  
 64 52.8 47.9 71.9  
 63 26.0 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: 93.38 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF099135.D

Acq: 6 Oct 2017 8:11

Instrument :

BNA\_F

ClientSampleId :

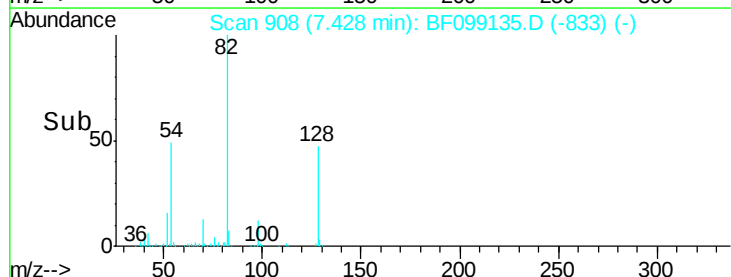
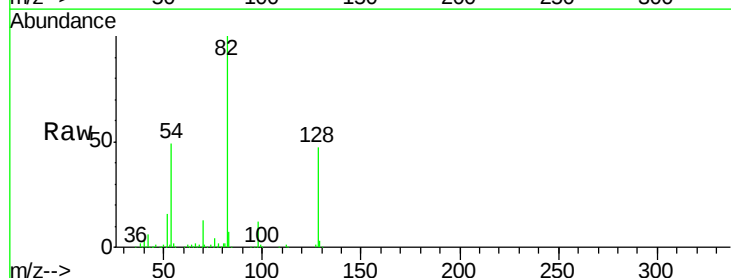
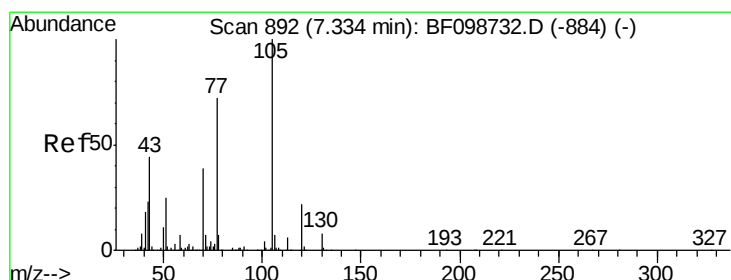
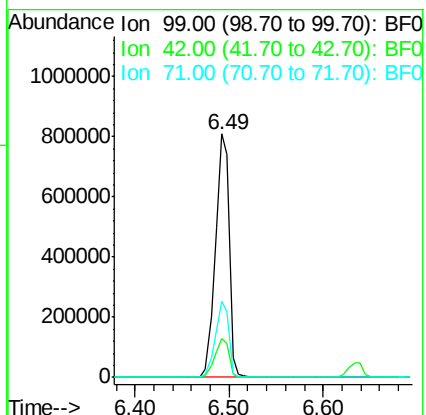
Tot Ion: 99 Resp: 836196

Ion Ratio Lower Upper

99 100

42 16.2 14.5 21.7

71 31.2 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.11 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.14 min

Lab File: BF099135.D

Acq: 6 Oct 2017 8:11

Tgt Ion: 70 Resp: 86367

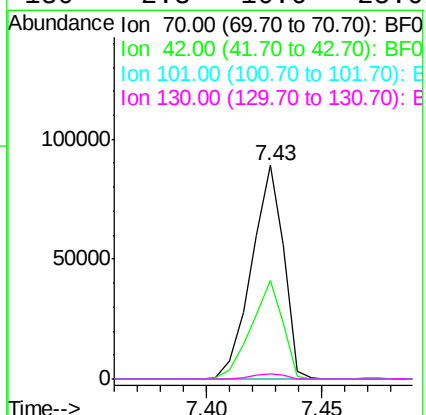
Ion Ratio Lower Upper

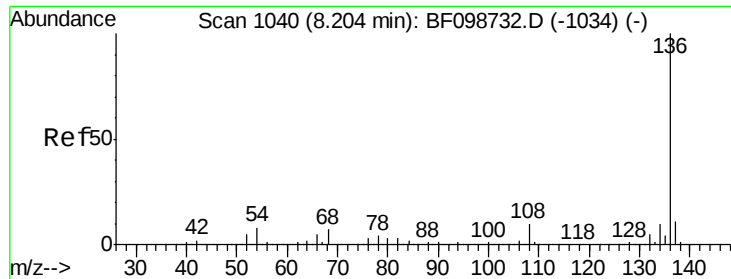
70 100

42 46.2 47.5 71.3#

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

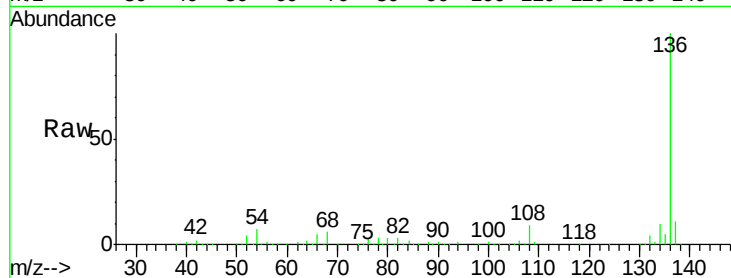




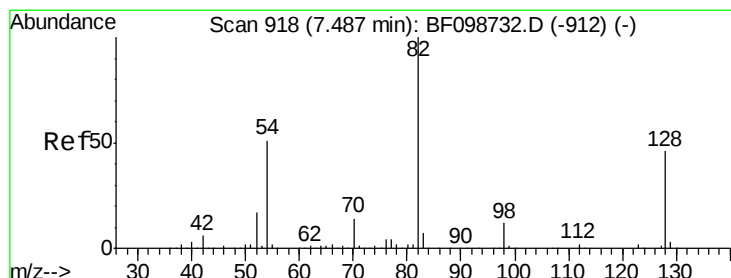
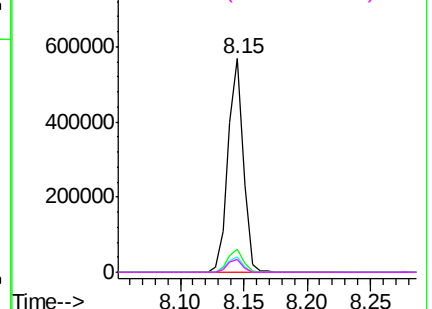
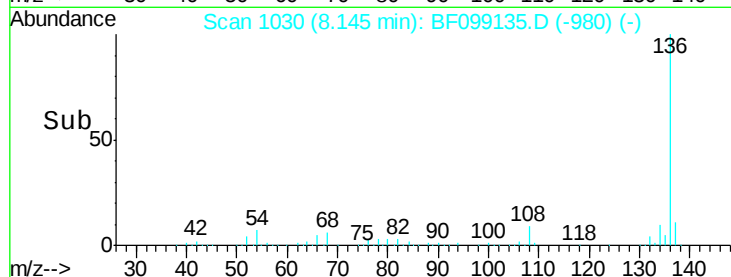
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BF099135.D  
Acq: 6 Oct 2017 8:11

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 479248   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 8.9 13.3 |
| 54          | 7.3   | 6.6 9.8  |
| 68          | 5.8   | 5.0 7.4  |

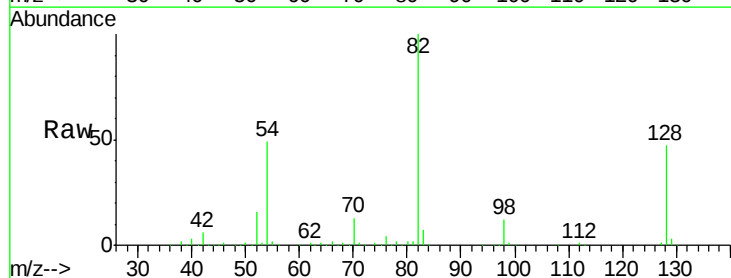


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

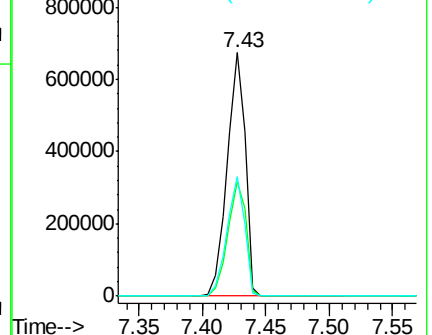
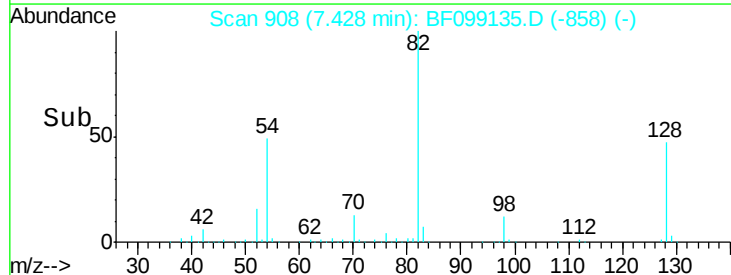


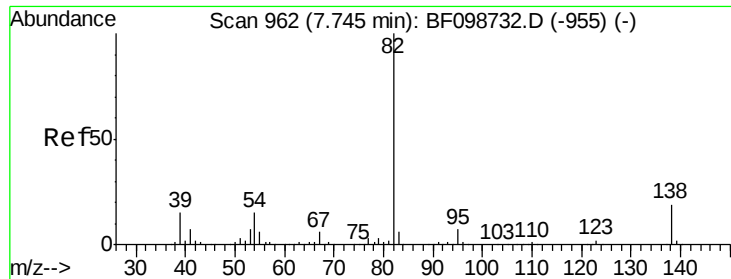
#23  
Nitrobenzene-d5  
Concen: 89.87 ng  
RT: 7.43 min Scan# 908  
Delta R.T. -0.01 min  
Lab File: BF099135.D  
Acq: 6 Oct 2017 8:11

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 671614    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 47.1  | 36.1 54.1 |
| 54          | 49.0  | 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: 43.47 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.26 min

Lab File: BF099135.D

Acq: 6 Oct 2017 8:11

Instrument :

BNA\_F

ClientSampled :

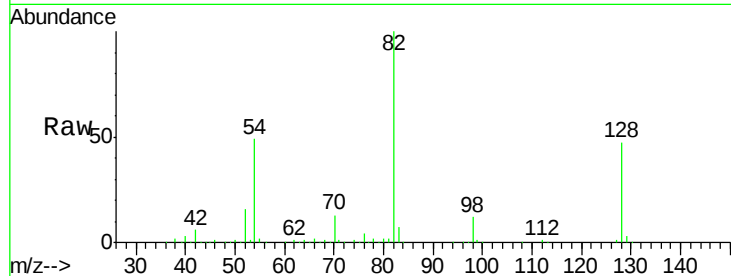
Tot Ion: 82 Resp: 671609

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

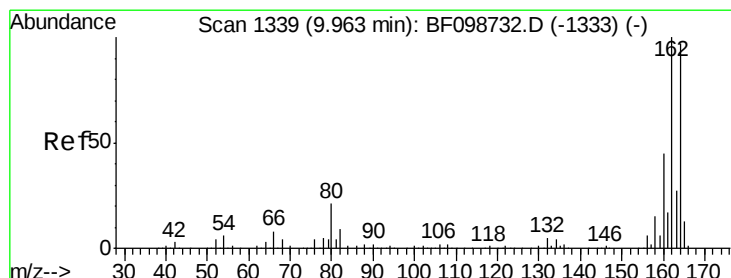
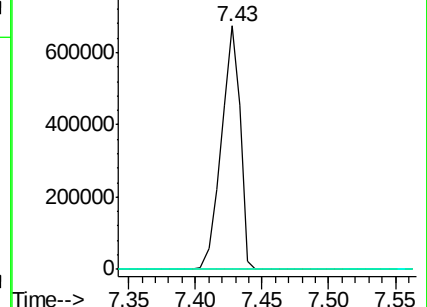
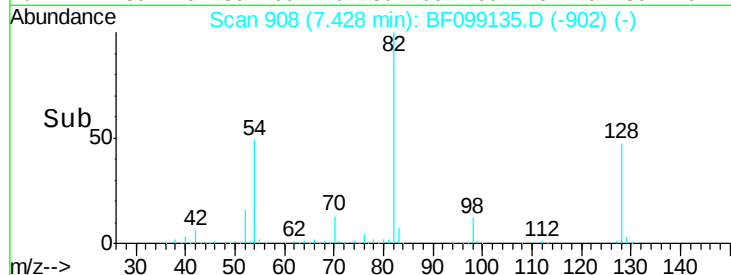
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF099135.D (-902) (-)

Ion 95.00 (94.70 to 95.70): BF099135.D (-902) (-)

Ion 138.00 (137.70 to 138.70): BF099135.D (-902) (-)



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF099135.D

Acq: 6 Oct 2017 8:11

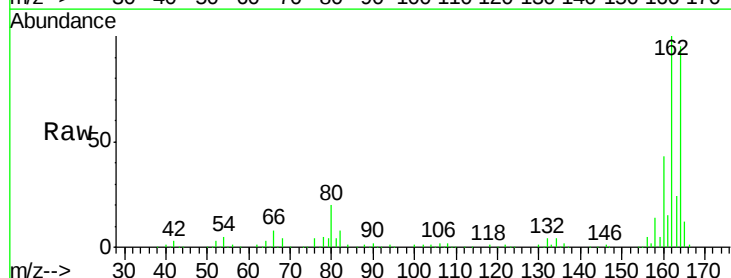
Tgt Ion: 164 Resp: 212692

Ion Ratio Lower Upper

164 100

162 104.8 86.1 129.1

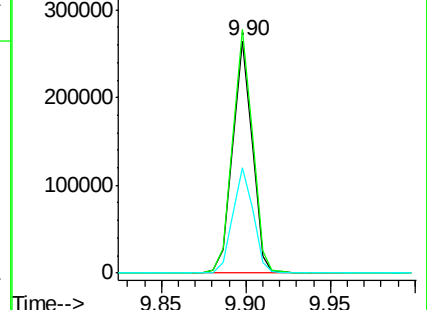
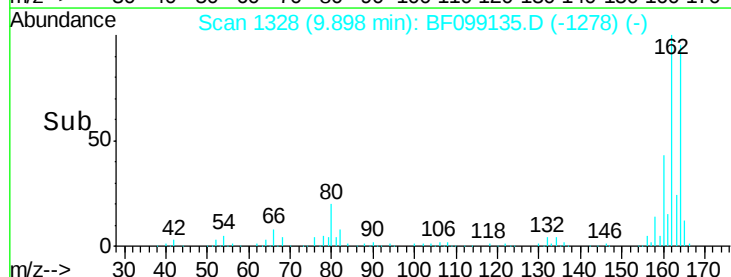
160 45.4 38.3 57.5

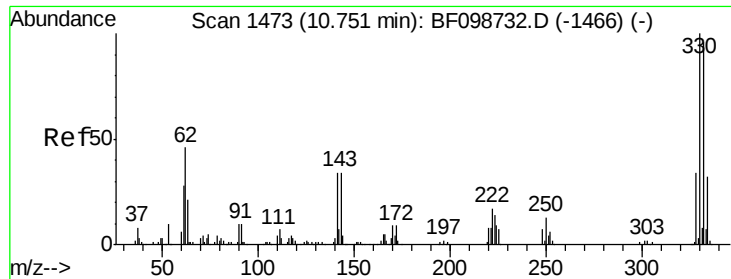


Abundance Ion 164.00 (163.70 to 164.70): BF099135.D (-1278) (-)

Ion 162.00 (161.70 to 162.70): BF099135.D (-1278) (-)

Ion 160.00 (159.70 to 160.70): BF099135.D (-1278) (-)

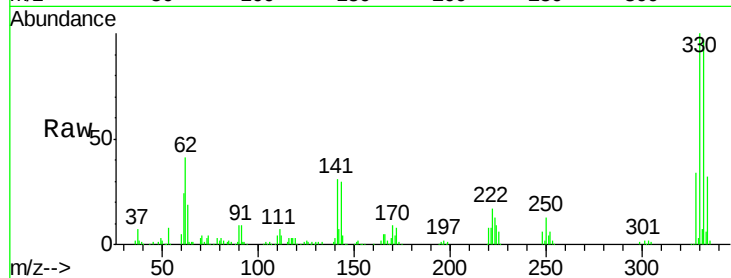




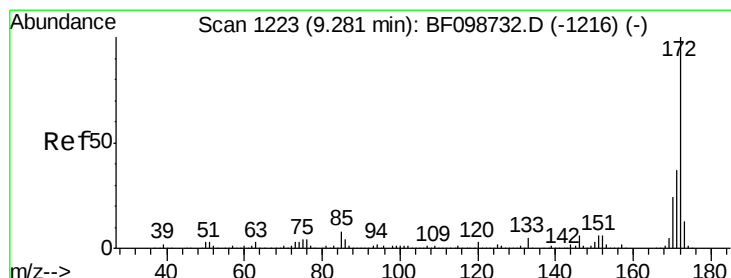
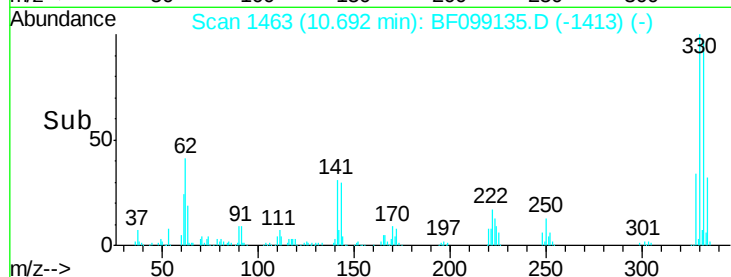
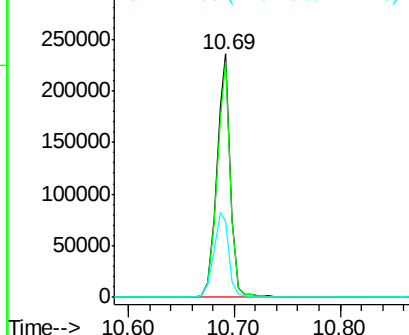
#41  
 2,4,6-Tribromophenol  
 Concen: 123.91 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.01 min  
 Lab File: BF099135.D  
 Acq: 6 Oct 2017 8:11

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 215645  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 77.0 115.6  
 141 39.2 29.9 44.9

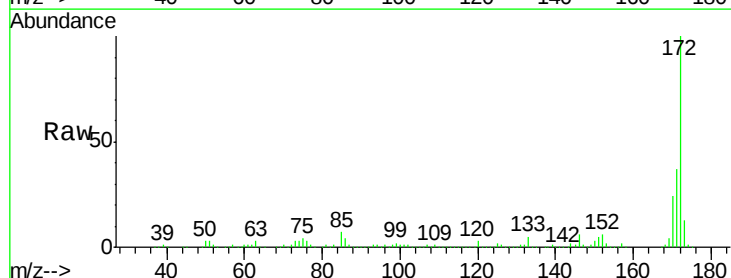


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

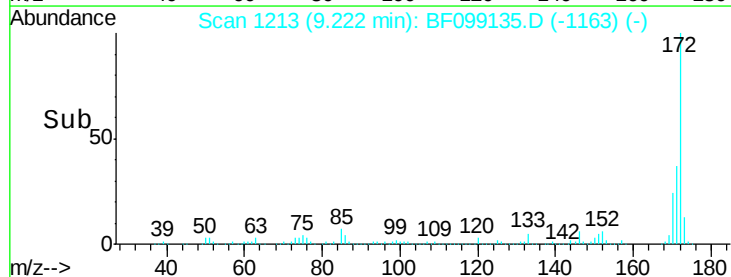
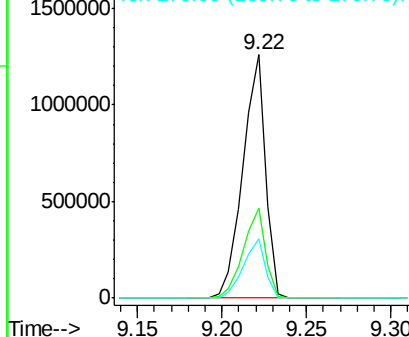


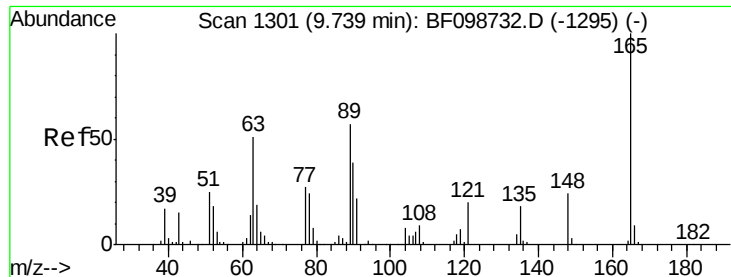
#44  
 2-Fluorobiphenyl  
 Concen: 92.79 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. -0.01 min  
 Lab File: BF099135.D  
 Acq: 6 Oct 2017 8:11

Tgt Ion:172 Resp: 1182199  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 29.7 44.5  
 170 24.3 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

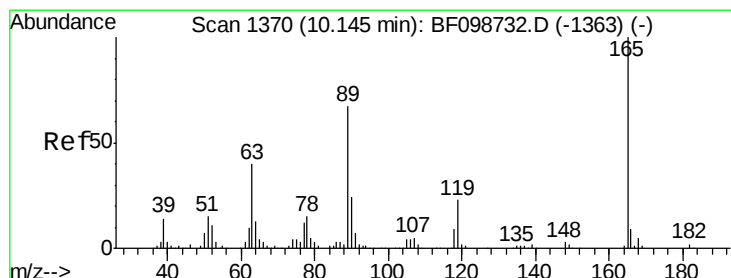
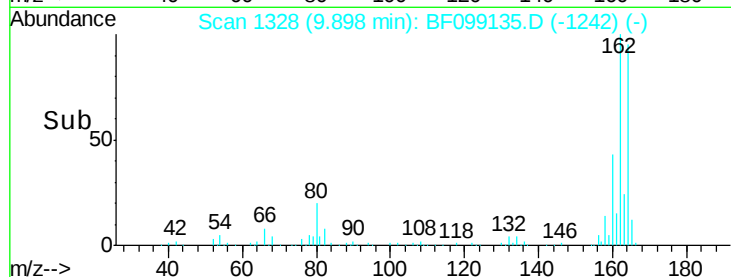
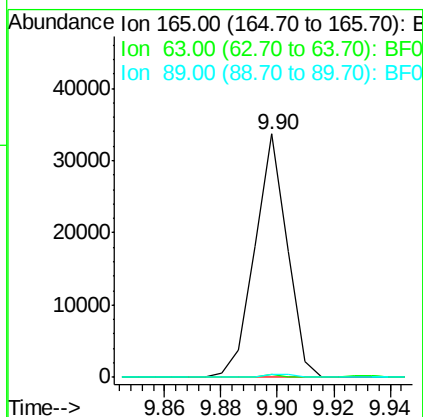
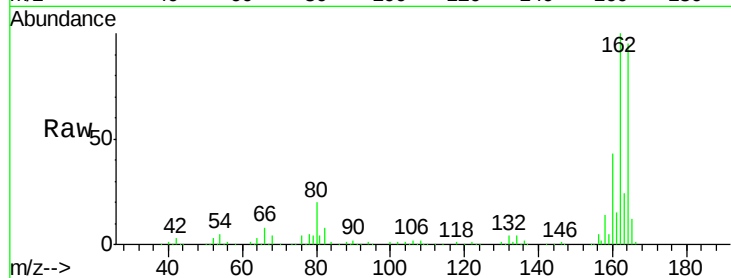




#50  
2,6-Dinitrotoluene  
Concen: 7.64 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. 0.21 min  
Lab File: BF099135.D  
Acq: 6 Oct 2017 8:11

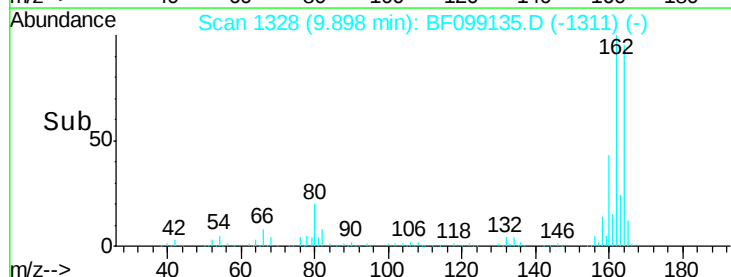
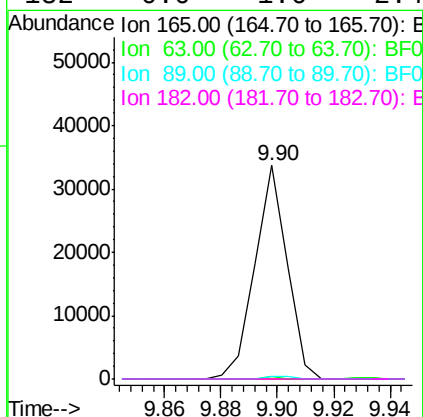
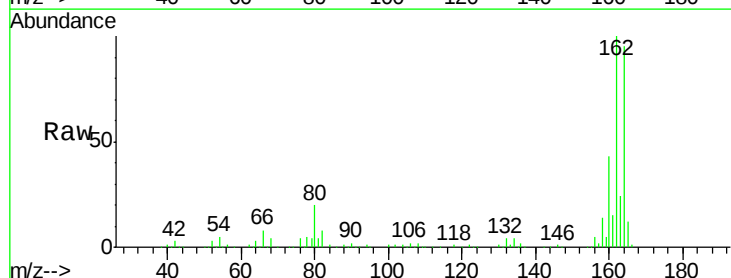
Instrument :  
BNA\_F  
ClientSampleId :

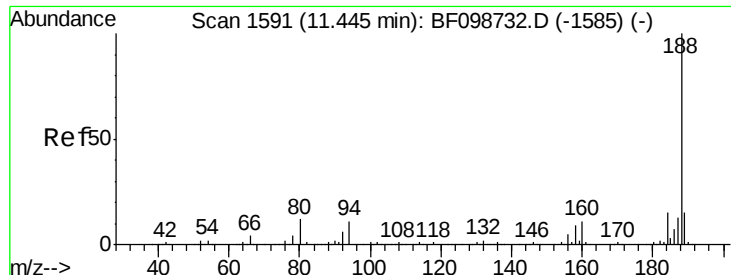
Tot Ion:165 Resp: 26702  
Ion Ratio Lower Upper  
165 100  
63 1.0 44.7 67.1#  
89 1.0 44.0 66.0#



#56  
2,4-Dinitrotoluene  
Concen: 5.89 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. -0.20 min  
Lab File: BF099135.D  
Acq: 6 Oct 2017 8:11

Tgt Ion:165 Resp: 26702  
Ion Ratio Lower Upper  
165 100  
63 1.0 36.4 54.6#  
89 1.0 57.8 86.6#  
182 0.0 1.6 2.4#

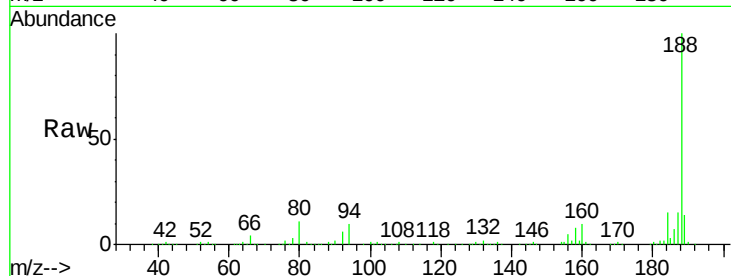




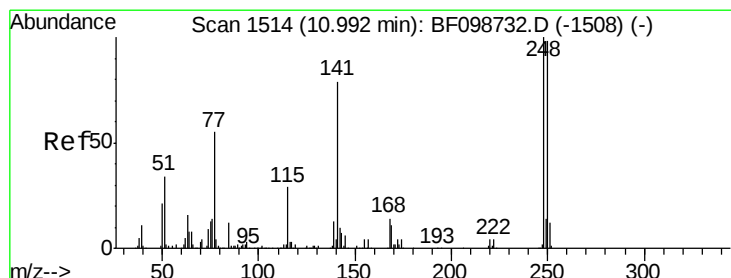
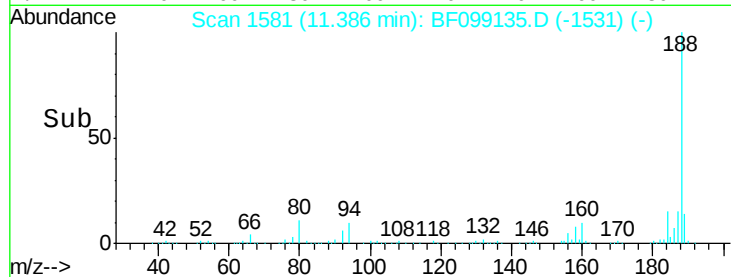
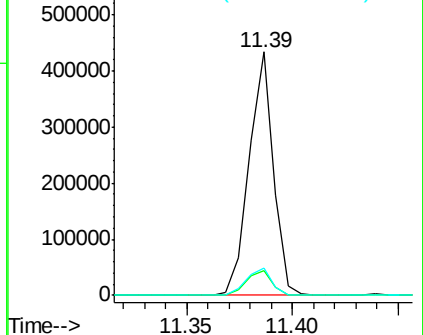
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.39 min Scan# 1581  
 Delta R.T. -0.01 min  
 Lab File: BF099135.D  
 Acq: 6 Oct 2017 8:11

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | 188   | Resp  | 348716 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 188     | 100   |       |        |
| 94      | 10.4  | 8.5   | 12.7   |
| 80      | 11.2  | 9.2   | 13.8   |

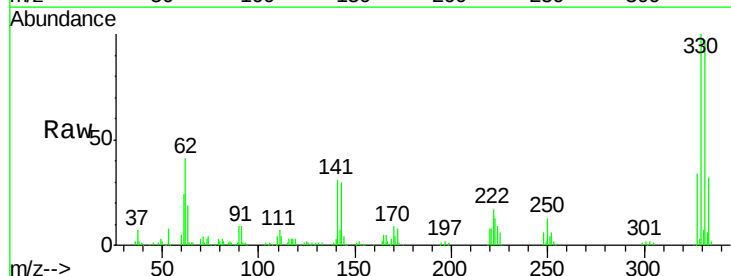


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

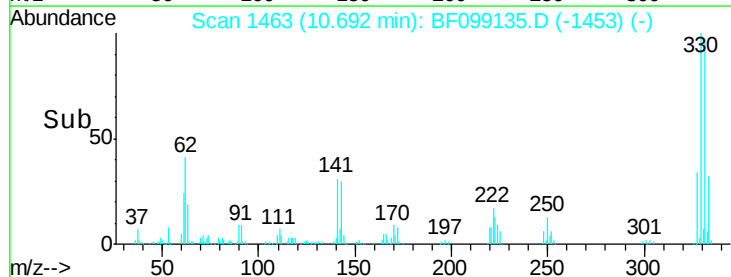
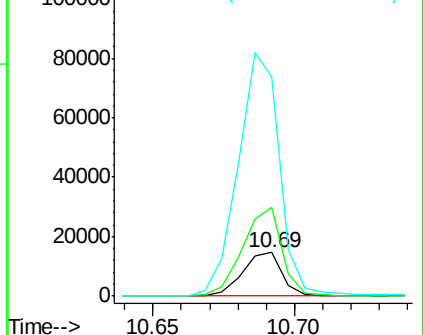


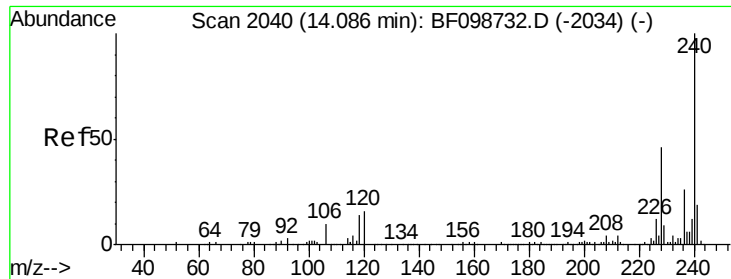
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.15 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.24 min  
 Lab File: BF099135.D  
 Acq: 6 Oct 2017 8:11

| Tgt Ion | 248   | Resp  | 14152  |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 248     | 100   |       |        |
| 250     | 203.6 | 76.9  | 115.3# |
| 141     | 506.2 | 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

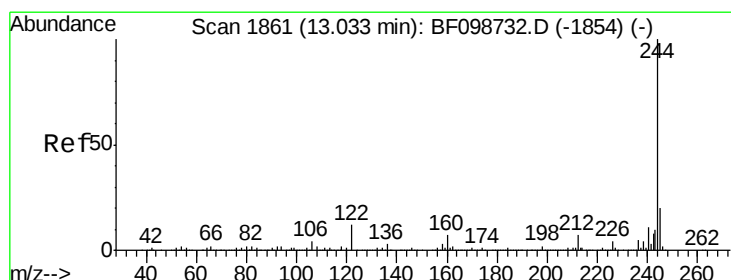
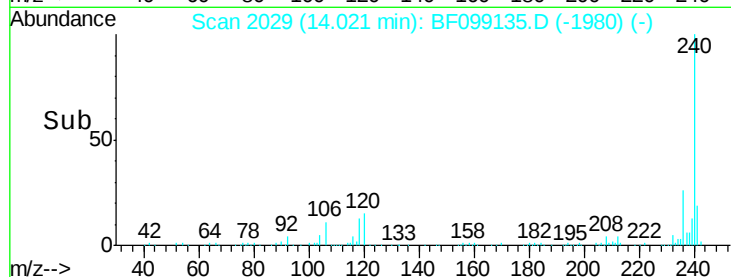
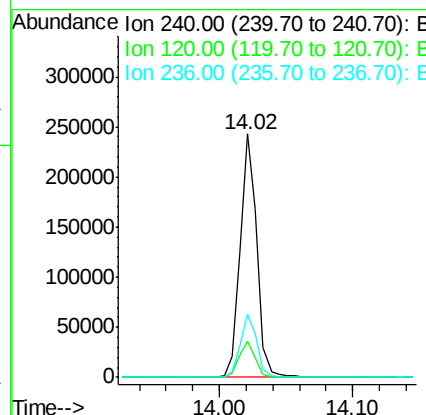
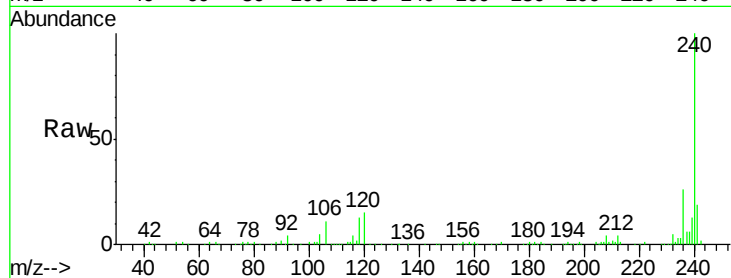




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF099135.D  
 Acq: 6 Oct 2017 8:11

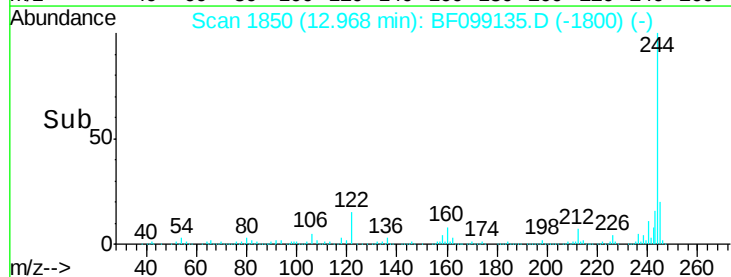
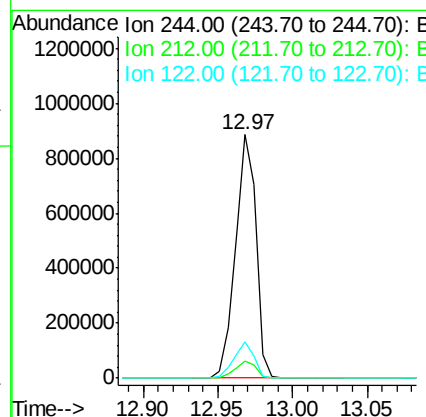
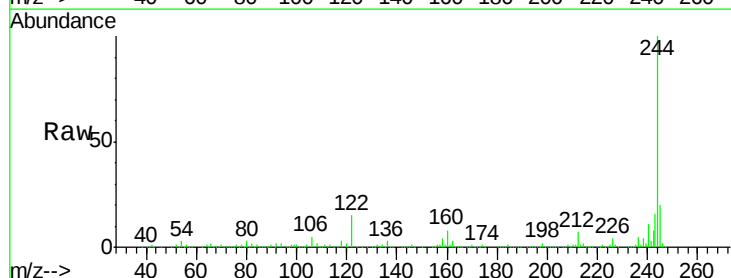
Instrument :  
 BNA\_F  
 ClientSampleId :

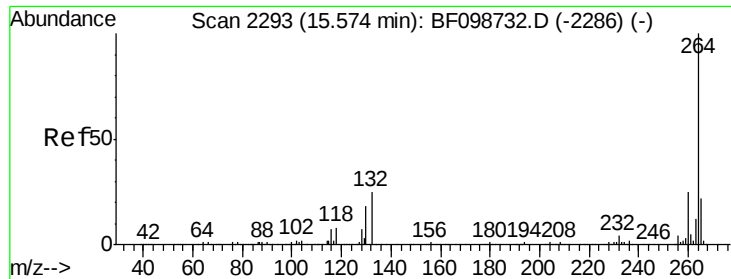
Tot Ion:240 Resp: 211637  
 Ion Ratio Lower Upper  
 240 100  
 120 15.0 9.5 14.3#  
 236 26.0 20.7 31.1



#78  
 Terphenyl-d14  
 Concen: 92.68 ng  
 RT: 12.97 min Scan# 1850  
 Delta R.T. -0.01 min  
 Lab File: BF099135.D  
 Acq: 6 Oct 2017 8:11

Tgt Ion:244 Resp: 862509  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.4 8.0  
 122 14.7 11.0 16.4

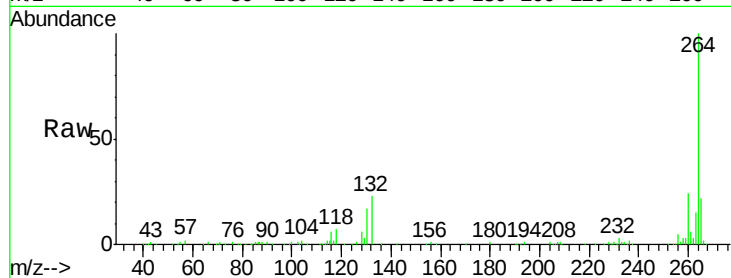




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.50 min Scan# 2280  
 Delta R.T. -0.01 min  
 Lab File: BF099135.D  
 Acq: 6 Oct 2017 8:11

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 264     | 100  |       |       |       |
| 260     | 24.1 | 19.2  | 28.8  |       |
| 265     | 22.2 | 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

