

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100617\  
 Data File : BF099143.D  
 Acq On : 6 Oct 2017 12:36  
 Operator : SJ/JU  
 Sample : I5644-16  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 06 14:33:01 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

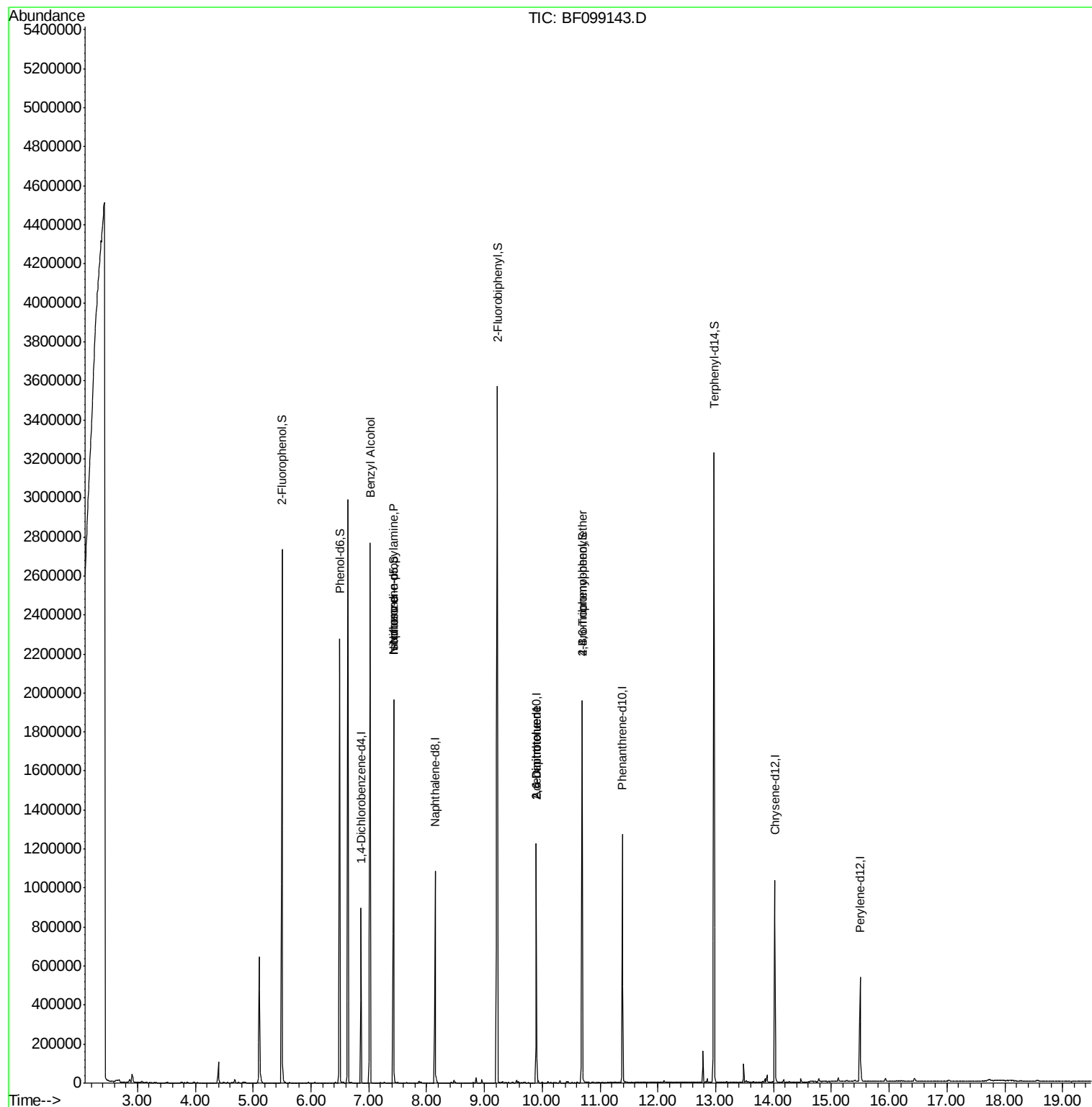
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 123483   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 509307   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.90  | 164  | 229705   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.39 | 188  | 413330   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.02 | 240  | 337671   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.50 | 264  | 244381   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 827269   | 106.65 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.50  | 99   | 858434   | 89.71  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 706228   | 88.93  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.69 | 330  | 254101   | 135.19 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 1272776  | 92.50  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.97 | 244  | 1180300  | 79.49  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 7.02  | 79   | 15416    | 2.196  | ng    | # 37     |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 91164    | 14.922 | ng    | # 73     |
| 25) Isophorone                 | 7.43  | 82   | 706220   | 43.011 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165  | 29601    | 7.843  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 29601    | 6.043  | ng    | # 23     |
| 66) 4-Bromophenyl-phenylether  | 10.69 | 248  | 17195    | 4.250  | ng    | # 1      |

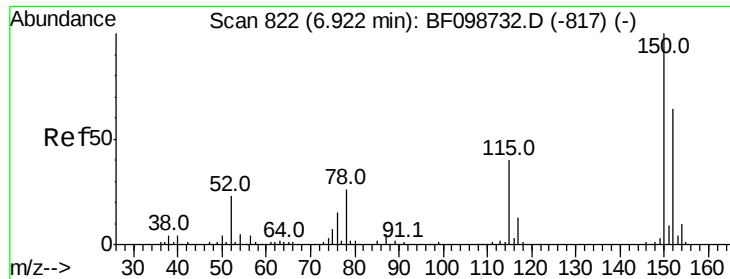
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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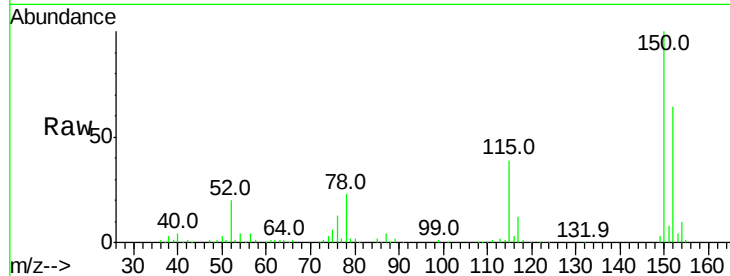


#1

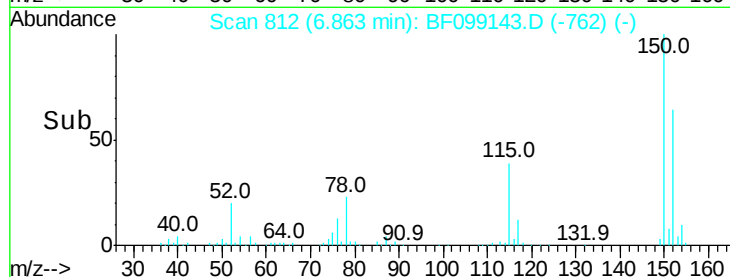
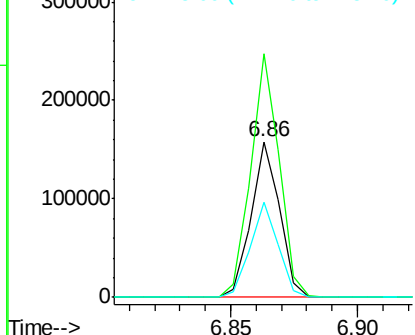
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF099143.D  
Acq: 6 Oct 2017 12:36

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 123483  
Ion Ratio Lower Upper  
152 100  
150 156.8 124.6 186.8  
115 60.9 50.1 75.1



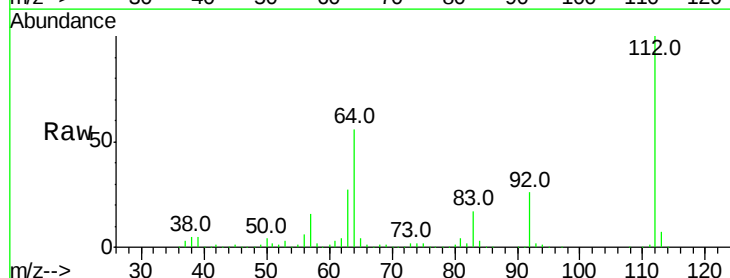
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



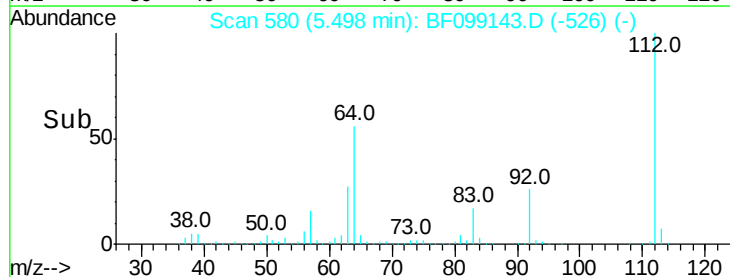
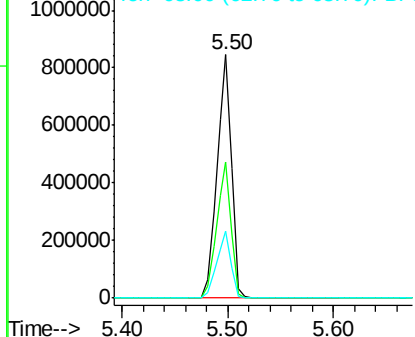
#5

2-Fluorophenol  
Concen: 106.649 ng  
RT: 5.50 min Scan# 580  
Delta R.T. 0.02 min  
Lab File: BF099143.D  
Acq: 6 Oct 2017 12:36

Tgt Ion:112 Resp: 827269  
Ion Ratio Lower Upper  
112 100  
64 55.9 47.9 71.9  
63 27.3 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: 89.709 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF099143.D

Acq: 6 Oct 2017 12:36

Instrument :

BNA\_F

ClientSampled :

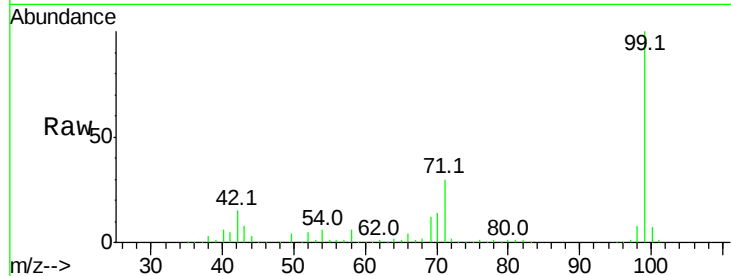
Tot Ion: 99 Resp: 858434

Ion Ratio Lower Upper

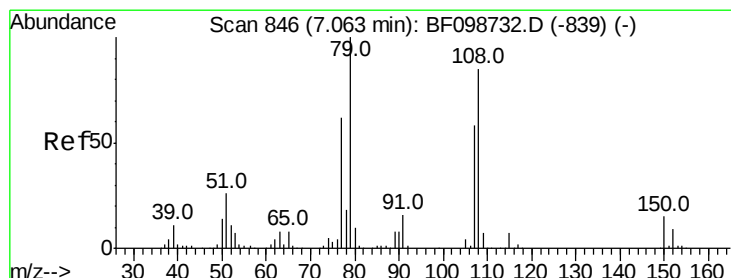
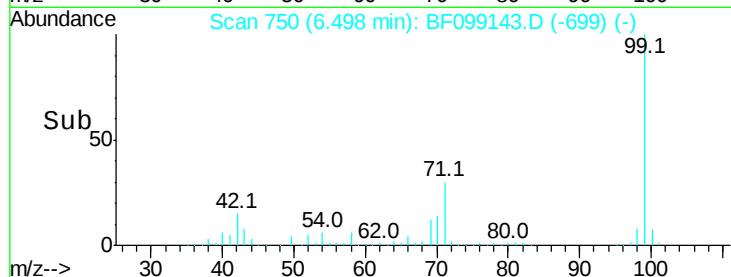
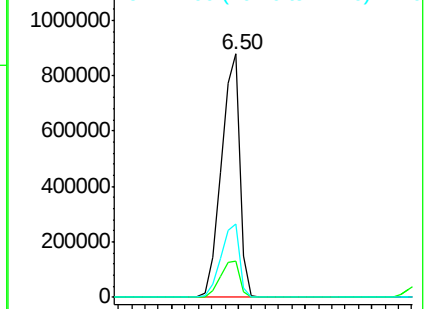
99 100

42 15.1 14.5 21.7

71 30.3 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



#15

Benzyl Alcohol

Concen: 2.196 ng

RT: 7.02 min Scan# 839

Delta R.T. 0.01 min

Lab File: BF099143.D

Acq: 6 Oct 2017 12:36

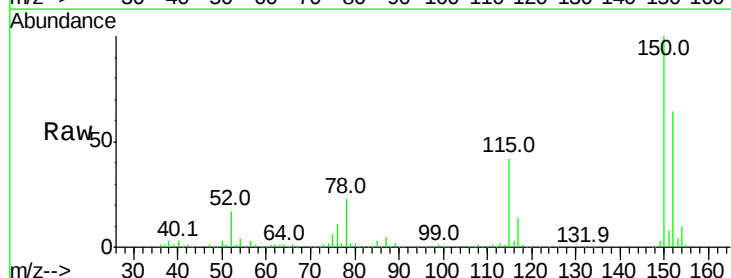
Tgt Ion: 79 Resp: 15416

Ion Ratio Lower Upper

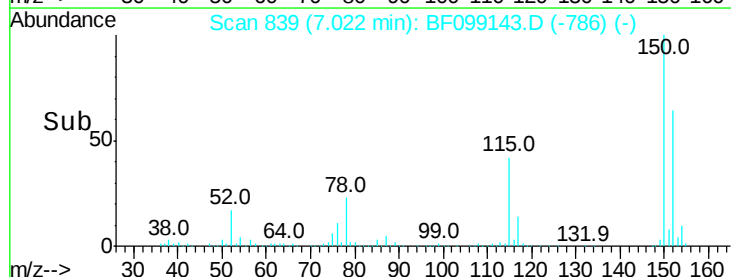
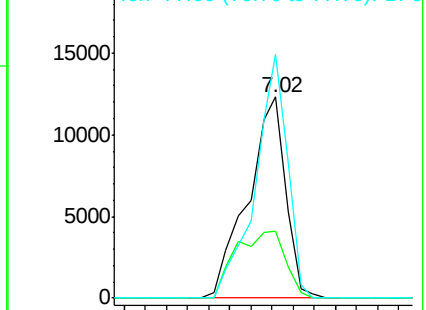
79 100

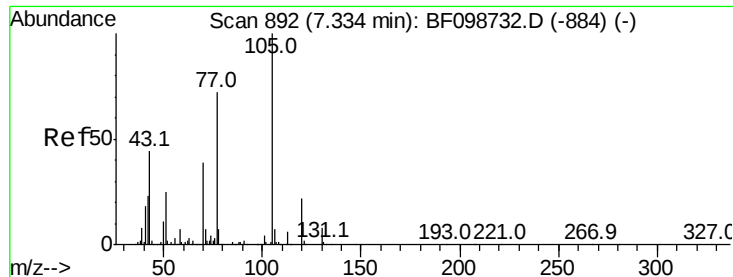
108 33.4 65.1 97.7#

77 121.0 50.6 75.8#



Abundance Ion 79.00 (78.70 to 79.70): BF0  
Ion 108.00 (107.70 to 108.70): BF0  
Ion 77.00 (76.70 to 77.70): BF0

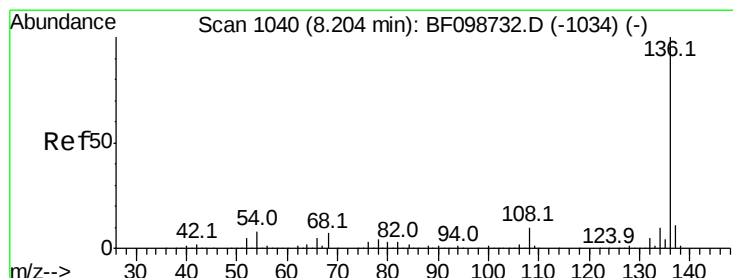
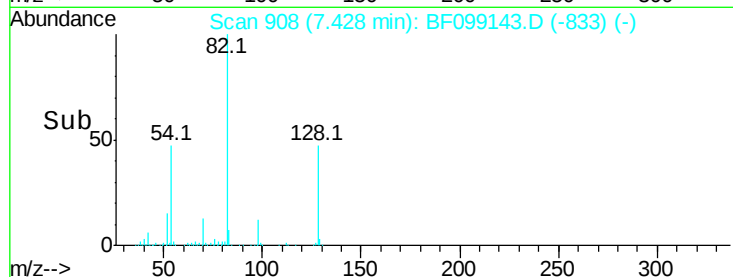
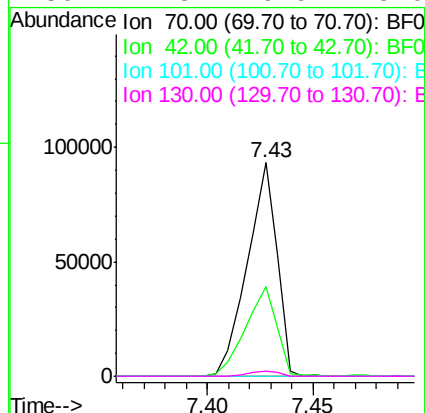
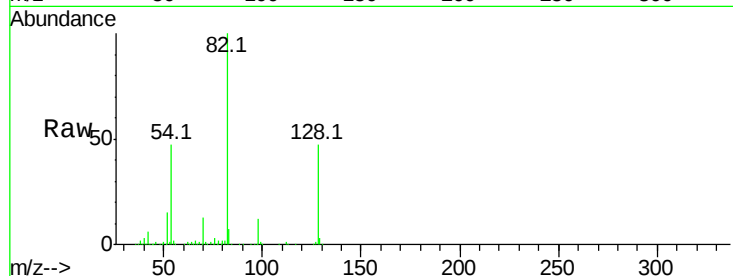




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.922 ng  
RT: 7.43 min Scan# 908  
Delta R.T. 0.14 min  
Lab File: BF099143.D  
Acq: 6 Oct 2017 12:36

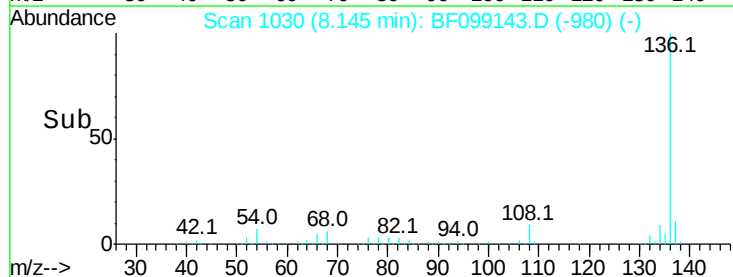
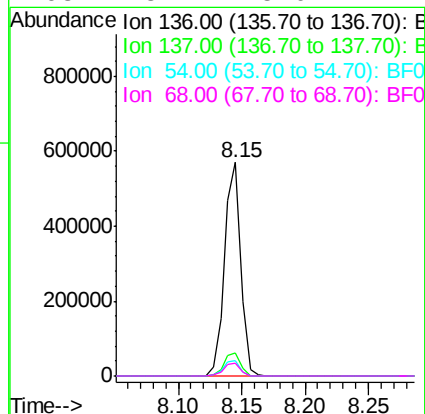
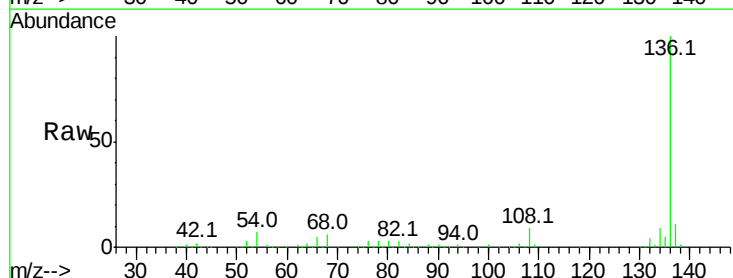
Instrument :  
BNA\_F  
ClientSampleId :

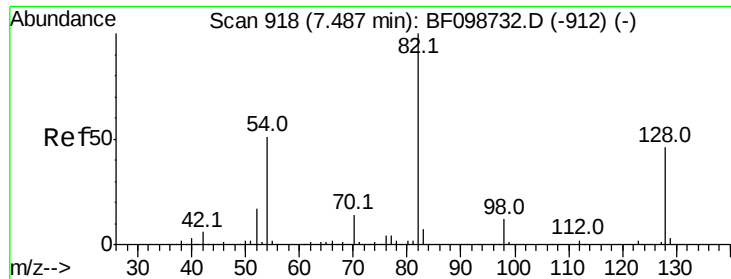
Tot Ion: 70 Resp: 91164  
Ion Ratio Lower Upper  
70 100  
42 41.8 47.5 71.3#  
101 0.0 7.4 11.2#  
130 2.3 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BF099143.D  
Acq: 6 Oct 2017 12:36

Tgt Ion: 136 Resp: 509307  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.9 13.3  
54 7.0 6.6 9.8  
68 5.7 5.0 7.4

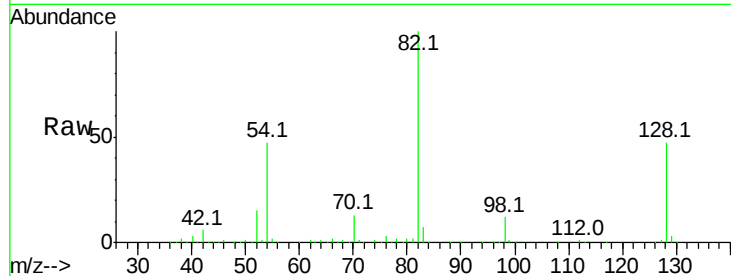




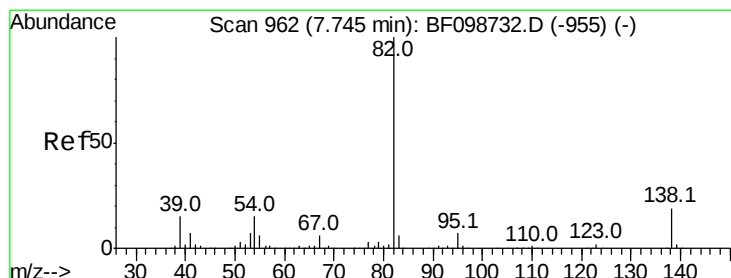
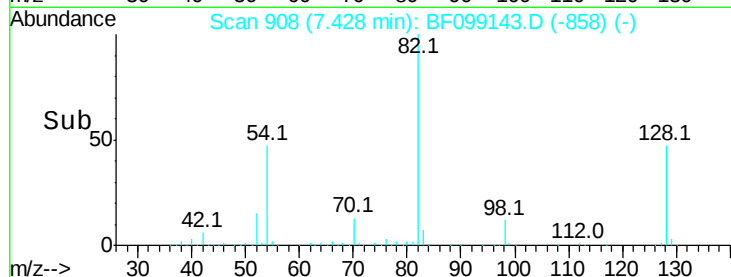
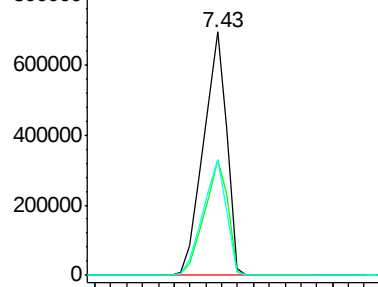
#23  
 Nitrobenzene-d5  
 Concen: 88.926 ng  
 RT: 7.43 min Scan# 908  
 Delta R.T. -0.01 min  
 Lab File: BF099143.D  
 Acq: 6 Oct 2017 12:36

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 47.4  | 36.1  | 54.1  |
| 54      | 47.3  | 41.4  | 62.2  |

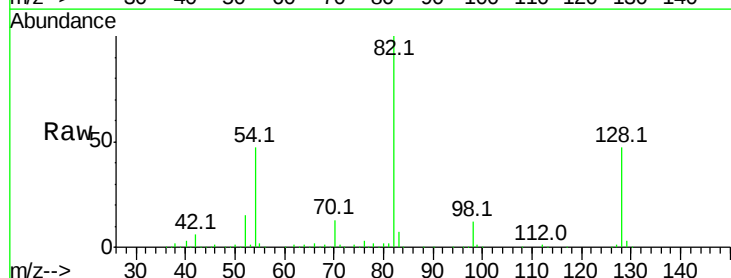


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

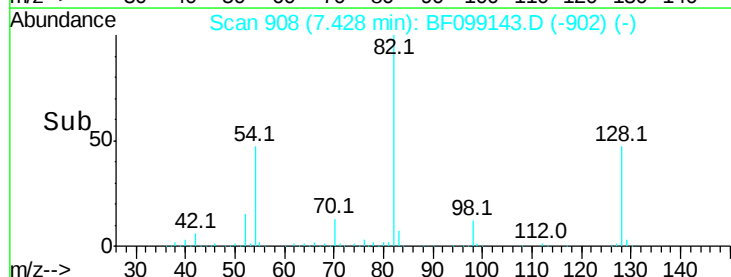
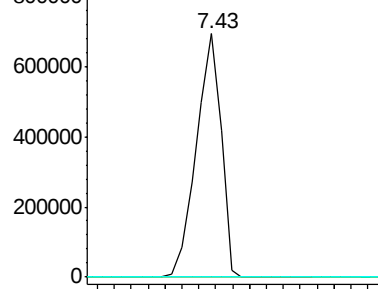


#25  
 Isophorone  
 Concen: 43.011 ng  
 RT: 7.43 min Scan# 908  
 Delta R.T. -0.26 min  
 Lab File: BF099143.D  
 Acq: 6 Oct 2017 12:36

| Tgt 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): BF0

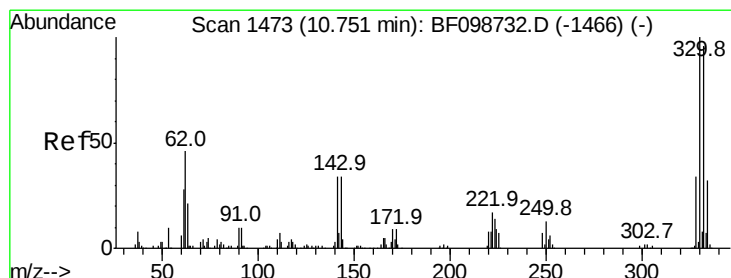
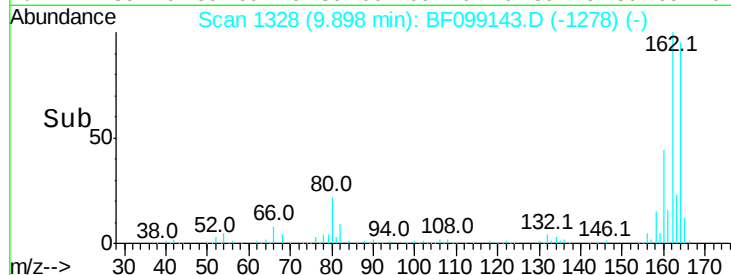
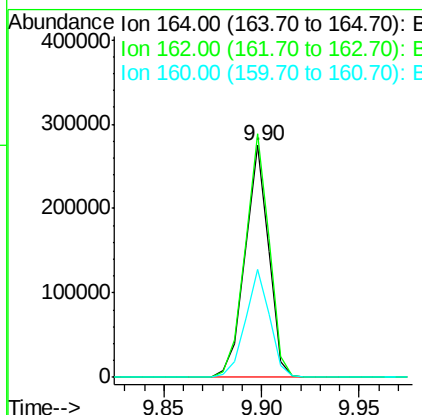
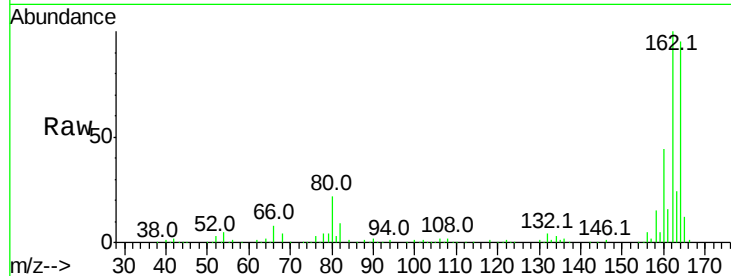




#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. -0.01 min  
Lab File: BF099143.D  
Acq: 6 Oct 2017 12:36

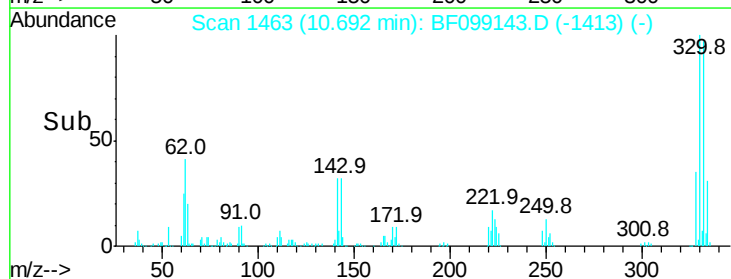
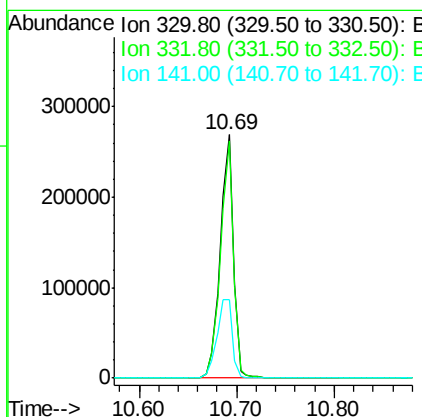
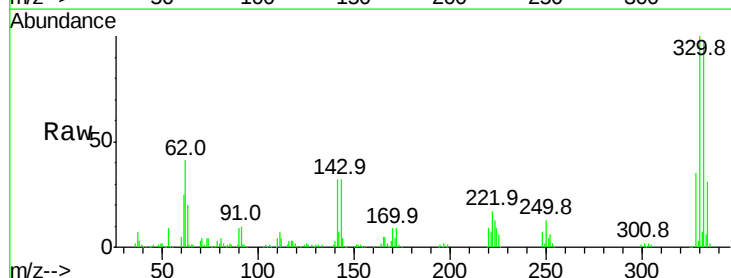
Instrument :  
BNA\_F  
ClientSampleId :

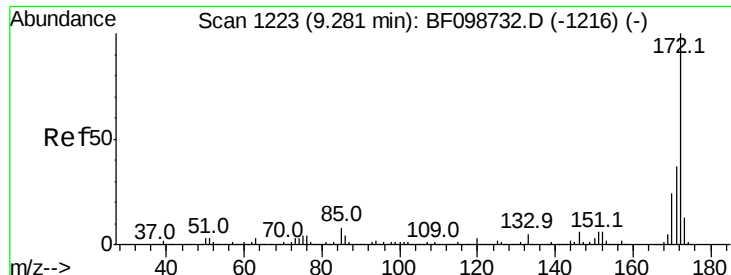
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.1 | 86.1  | 129.1 |
| 160     | 46.4  | 38.3  | 57.5  |



#41  
2,4,6-Tribromophenol  
Concen: 135.188 ng  
RT: 10.69 min Scan# 1463  
Delta R.T. -0.01 min  
Lab File: BF099143.D  
Acq: 6 Oct 2017 12:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.1  | 77.0  | 115.6 |
| 141     | 38.0  | 29.9  | 44.9  |



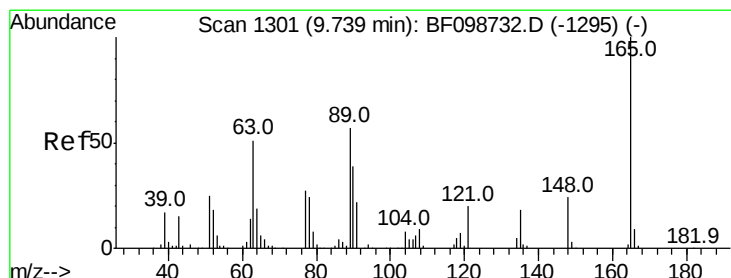
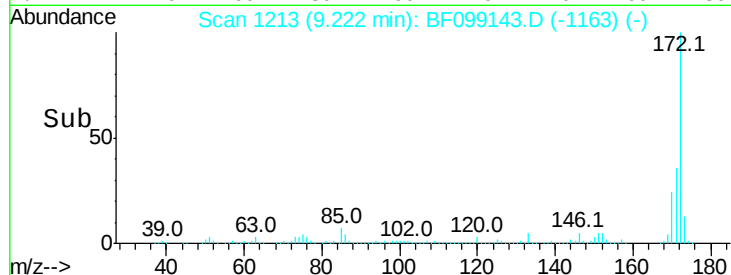
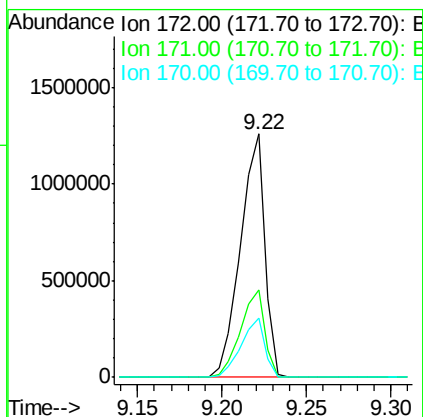
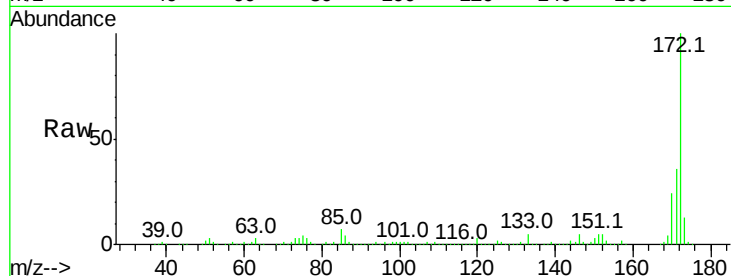


#44  
 2-Fluorobiphenyl  
 Concen: 92.501 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. -0.01 min  
 Lab File: BF099143.D  
 Acq: 6 Oct 2017 12:36

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 1272776  

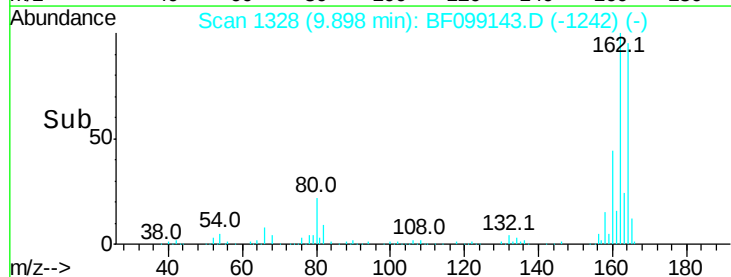
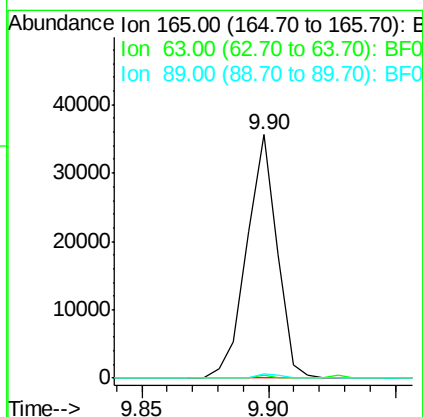
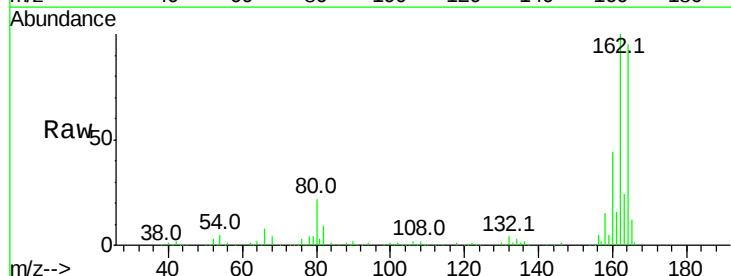
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.2  | 29.7  | 44.5  |
| 170 | 24.2  | 19.6  | 29.4  |



#50  
 2,6-Dinitrotoluene  
 Concen: 7.843 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. 0.21 min  
 Lab File: BF099143.D  
 Acq: 6 Oct 2017 12:36

Tgt Ion:165 Resp: 29601  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 1.1   | 44.7  | 67.1# |
| 89  | 1.7   | 44.0  | 66.0# |





#56

2,4-Dinitrotoluene

Concen: 6.043 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.20 min

Lab File: BF099143.D

Acq: 6 Oct 2017 12:36

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 29601

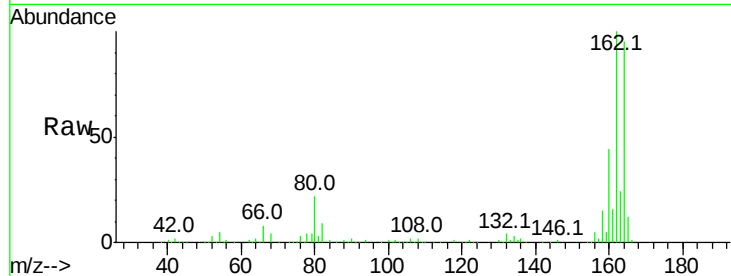
Ion Ratio Lower Upper

165 100

63 1.1 36.4 54.6#

89 1.7 57.8 86.6#

182 0.0 1.6 2.4#

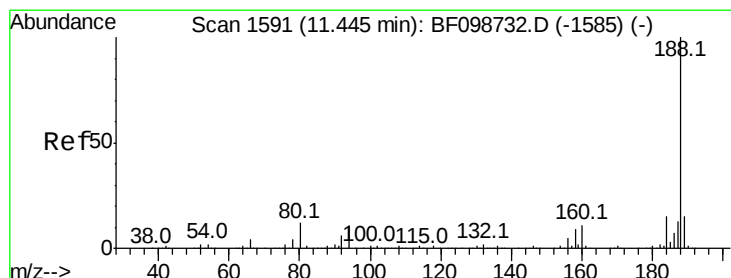
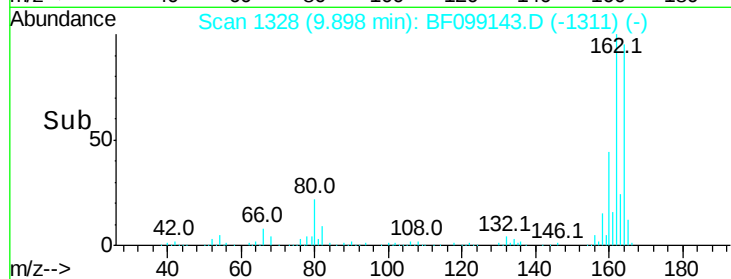
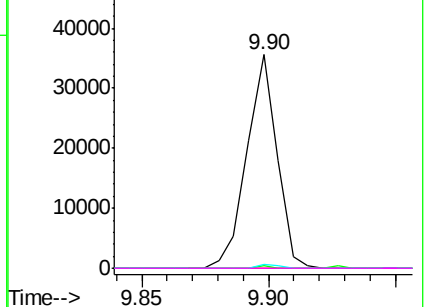


Abundance Ion 165.00 (164.70 to 165.70): E

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: BF099143.D

Acq: 6 Oct 2017 12:36

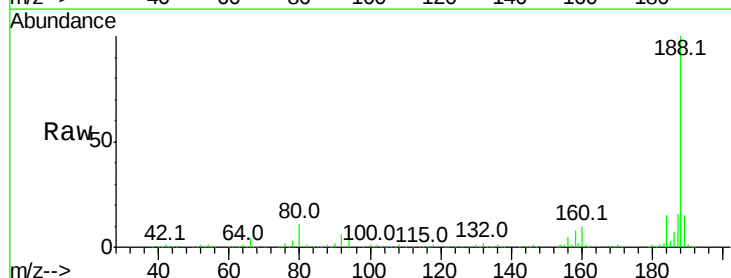
Tgt Ion:188 Resp: 413330

Ion Ratio Lower Upper

188 100

94 10.4 8.5 12.7

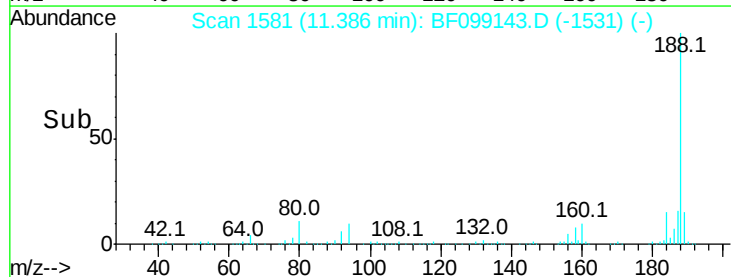
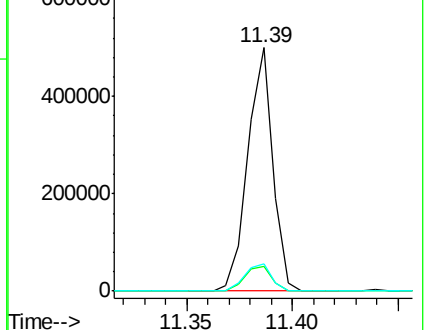
80 11.3 9.2 13.8

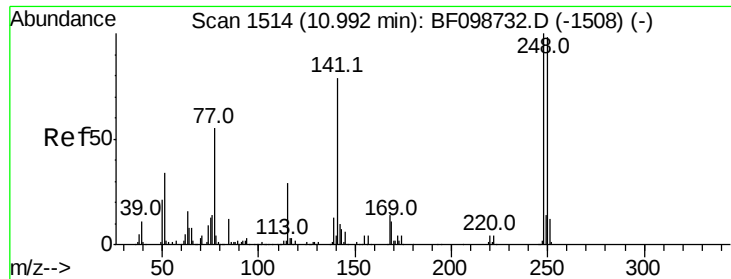


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

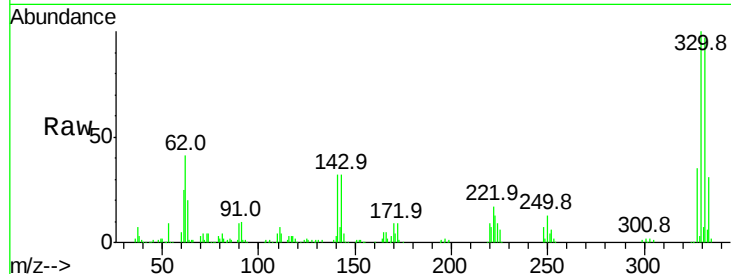




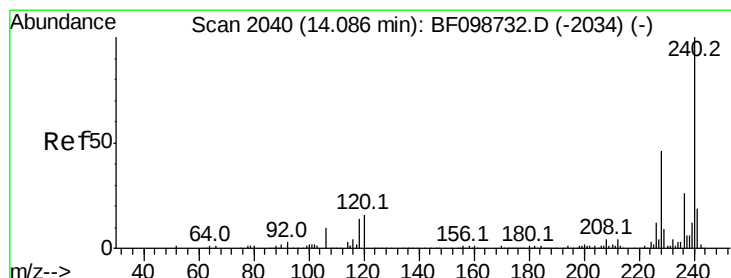
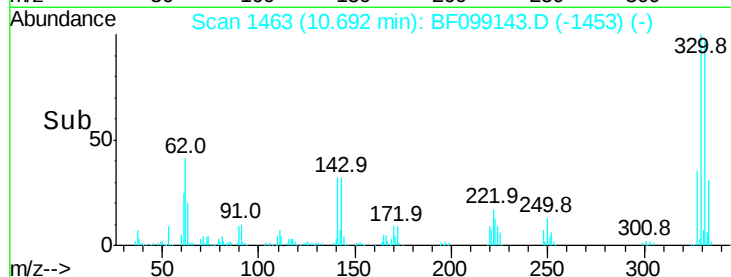
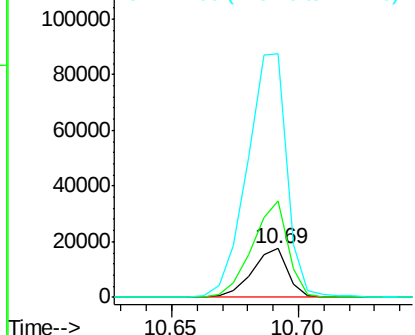
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.250 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.24 min  
 Lab File: BF099143.D  
 Acq: 6 Oct 2017 12:36

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:248 Resp: 17195  
 Ion Ratio Lower Upper  
 248 100  
 250 197.7 76.9 115.3#  
 141 499.7 74.4 111.6#

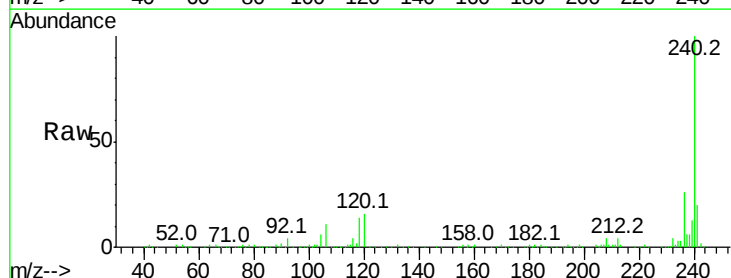


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

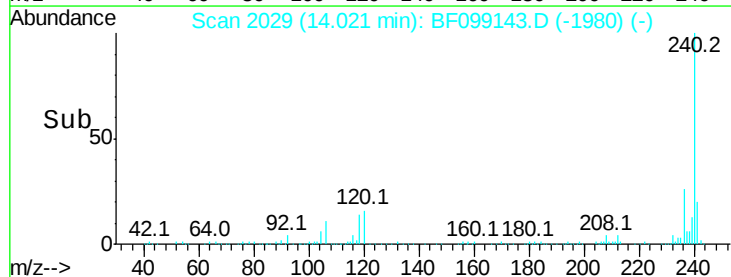
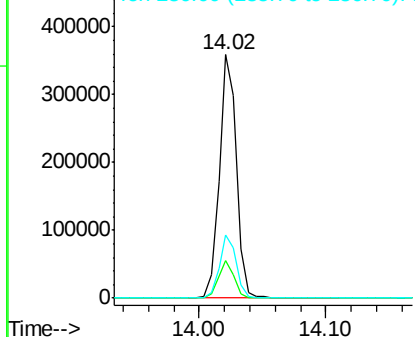


#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF099143.D  
 Acq: 6 Oct 2017 12:36

Tgt Ion:240 Resp: 337671  
 Ion Ratio Lower Upper  
 240 100  
 120 15.5 9.5 14.3#  
 236 25.8 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: 79.493 ng

RT: 12.97 min Scan# 1851

Delta R.T. -0.00 min

Lab File: BF099143.D

Acq: 6 Oct 2017 12:36

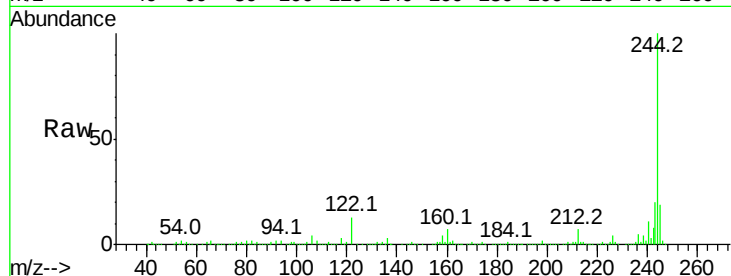
Instrument :

BNA\_F

ClientSampled :

Tot Ion:244 Resp: 1180300

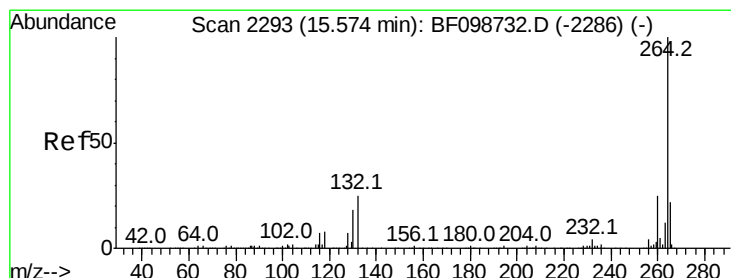
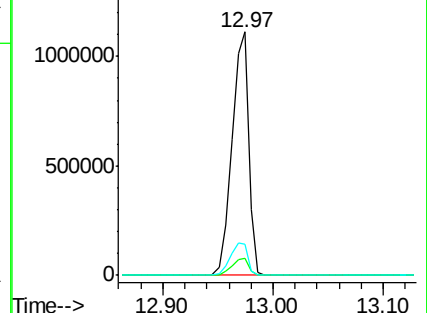
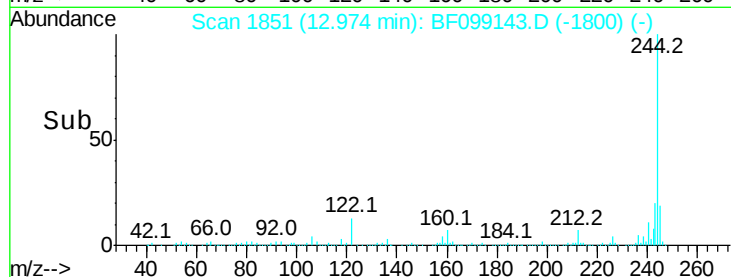
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.8   | 5.4   | 8.0   |
| 122 | 12.8  | 11.0  | 16.4  |



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

Perylene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

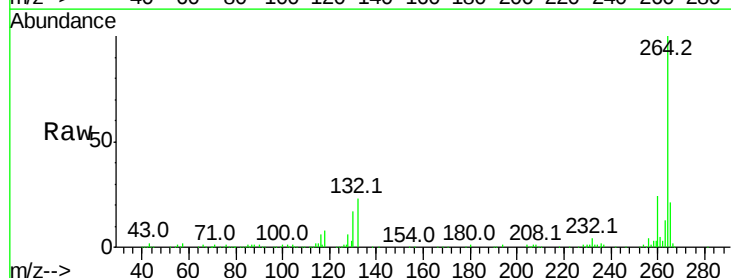
Delta R.T. -0.01 min

Lab File: BF099143.D

Acq: 6 Oct 2017 12:36

Tgt Ion:264 Resp: 244381

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.6  | 19.2  | 28.8  |
| 265 | 20.9  | 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

