

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110617\  
 Data File : BF100251.D  
 Acq On : 6 Nov 2017 14:55  
 Operator : SJ/JU  
 Sample : PB103849TB  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 07 00:14:57 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 06 13:31:35 2017  
 Response via : Initial Calibration

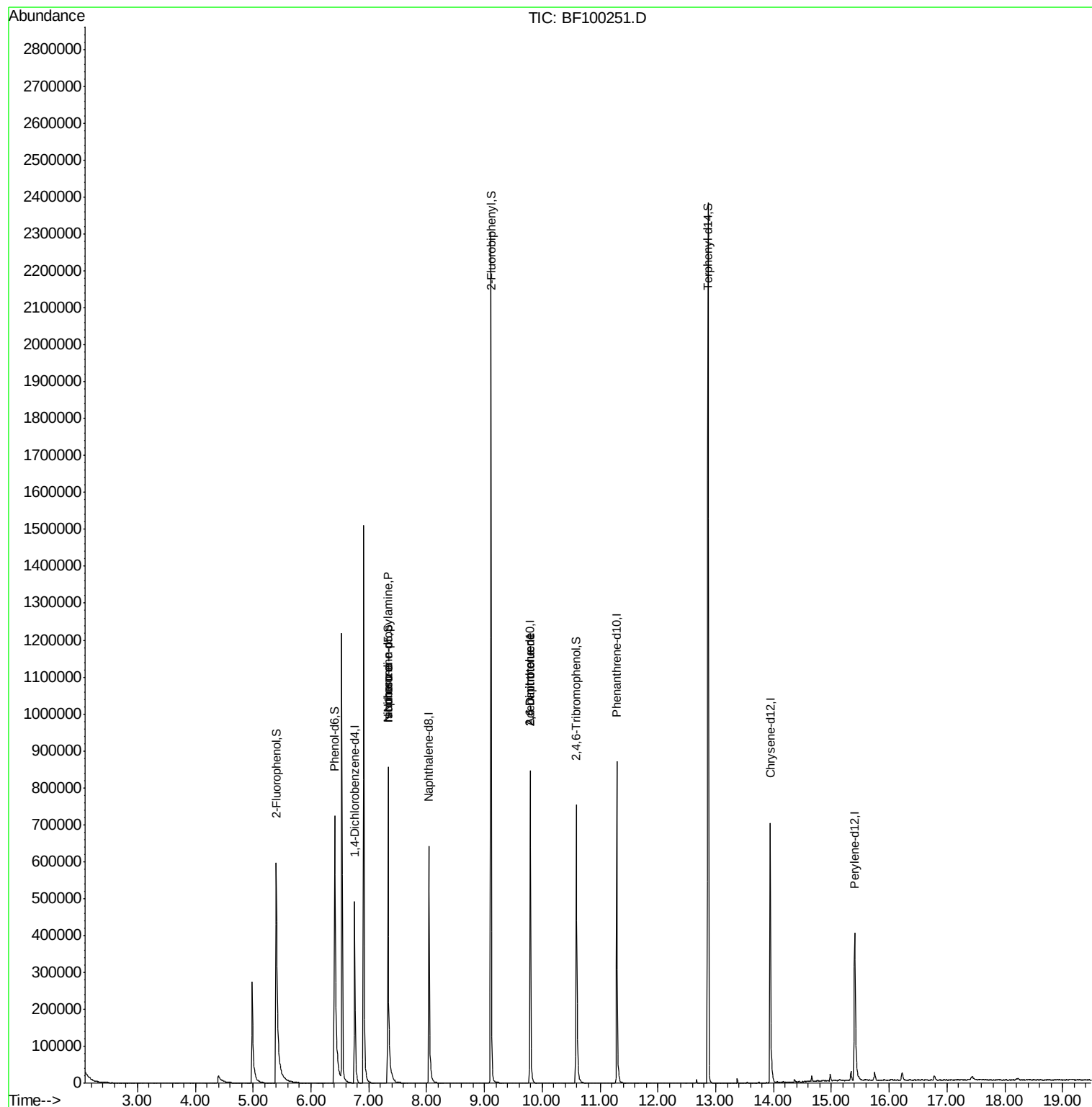
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.76  | 152  | 95270    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.04  | 136  | 398133   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.79  | 164  | 190823   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.29 | 188  | 379798   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.94 | 240  | 309790   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.40 | 264  | 243019   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.40  | 112  | 396360   | 65.32  | ng    | 0.02     |
| 7) Phenol-d6                   | 6.41  | 99   | 487755   | 67.79  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.33  | 82   | 385417   | 62.32  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.59 | 330  | 116445   | 66.96  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.11  | 172  | 817341   | 66.08  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.87 | 244  | 849769   | 59.95  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.33  | 70   | 47609    | 11.291 | ng    | # 71     |
| 25) Isophorone                 | 7.33  | 82   | 385417   | 34.346 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.79  | 165  | 25035    | 7.881  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.79  | 165  | 25035    | 6.544  | ng    | # 22     |

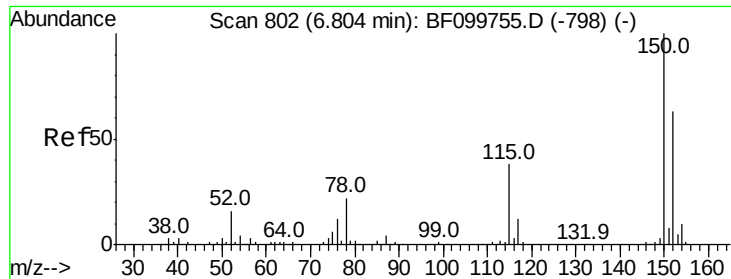
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF110617\  
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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Nov 07 00:14:57 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 06 13:31:35 2017  
Response via : Initial Calibration



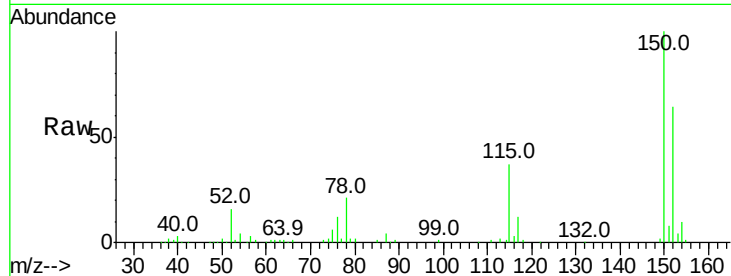


#1

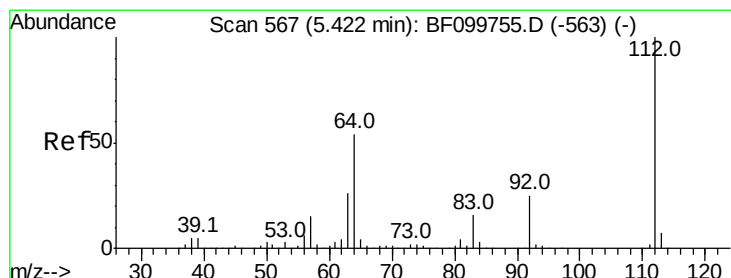
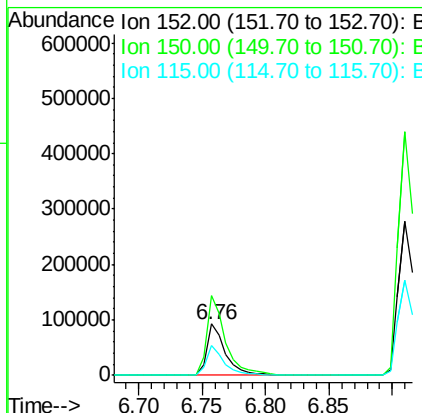
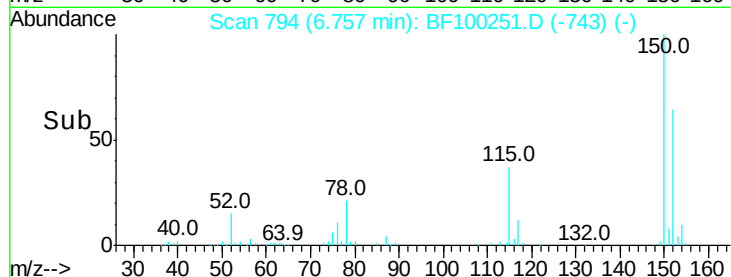
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.76 min Scan# 794  
Delta R.T. -0.00 min  
Lab File: BF100251.D  
Acq: 6 Nov 2017 14:55

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 95270  
Ion Ratio Lower Upper  
152 100  
150 155.0 124.6 186.8  
115 56.9 50.1 75.1



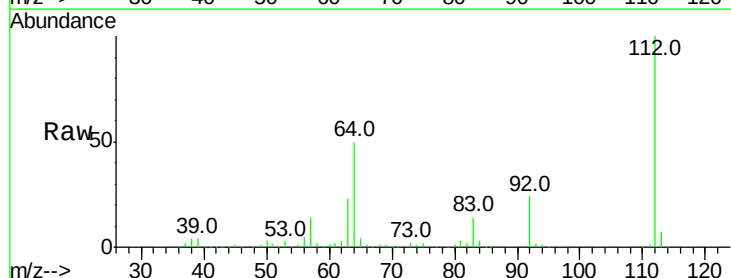
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



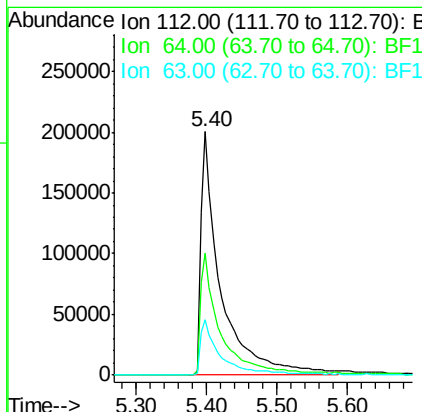
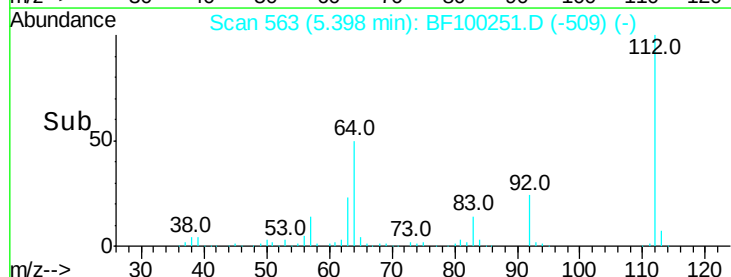
#5

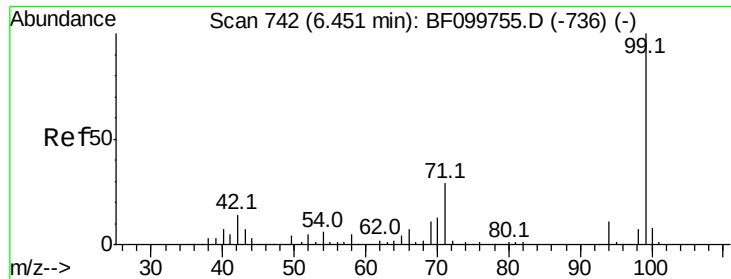
2-Fluorophenol  
Concen: 65.317 ng  
RT: 5.40 min Scan# 563  
Delta R.T. 0.02 min  
Lab File: BF100251.D  
Acq: 6 Nov 2017 14:55

Tgt Ion:112 Resp: 396360  
Ion Ratio Lower Upper  
112 100  
64 50.3 47.9 71.9  
63 22.9 23.7 35.5#



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 67.788 ng

RT: 6.41 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF100251.D

Acq: 6 Nov 2017 14:55

Instrument :

BNA\_F

ClientSampleId :

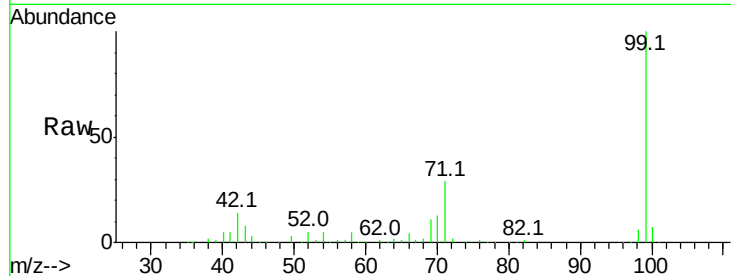
Tot Ion: 99 Resp: 487755

Ion Ratio Lower Upper

99 100

42 13.5 14.5 21.7#

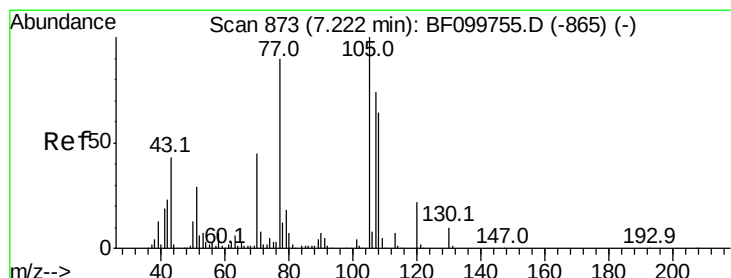
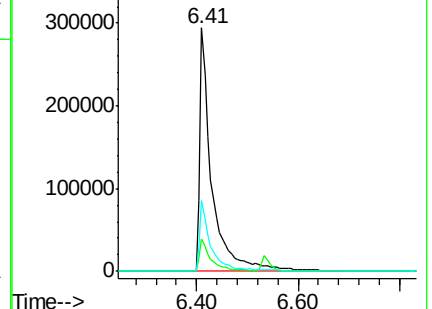
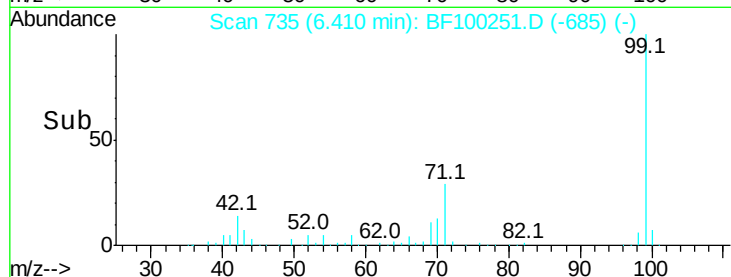
71 29.1 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 11.291 ng

RT: 7.33 min Scan# 892

Delta R.T. 0.15 min

Lab File: BF100251.D

Acq: 6 Nov 2017 14:55

Tgt Ion: 70 Resp: 47609

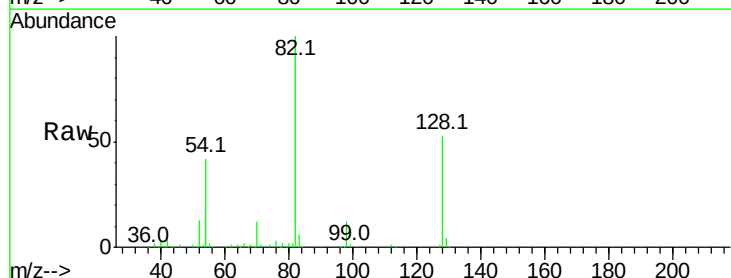
Ion Ratio Lower Upper

70 100

42 39.7 47.5 71.3#

101 0.0 7.4 11.2#

130 2.8 16.6 25.0#

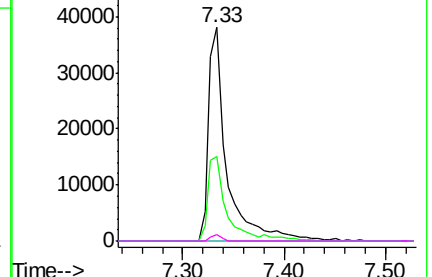
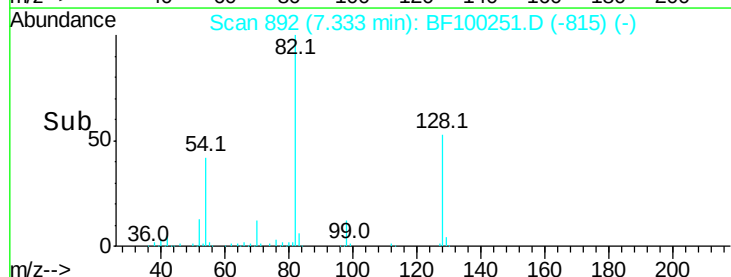


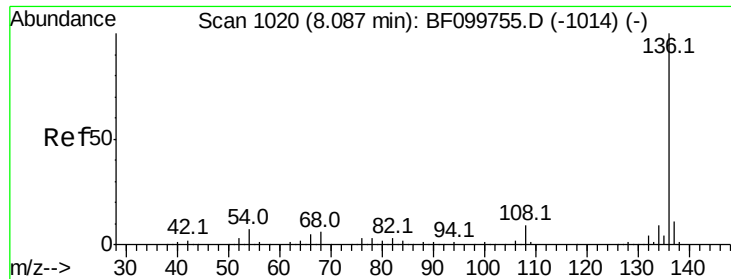
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

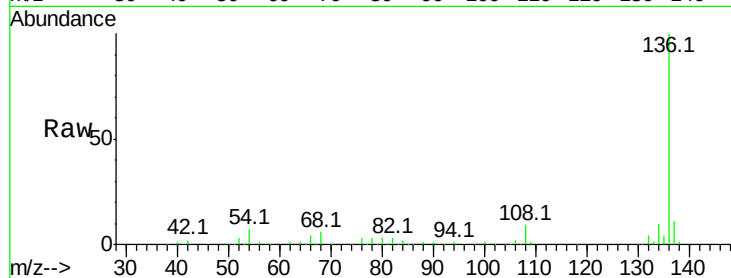




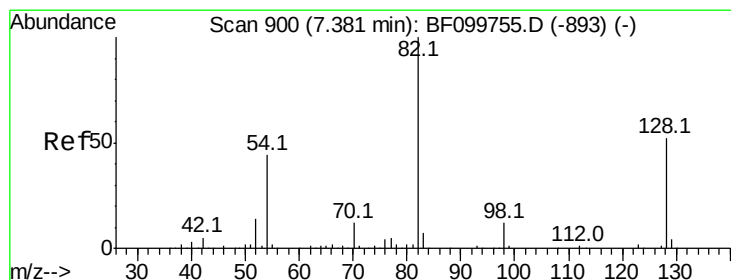
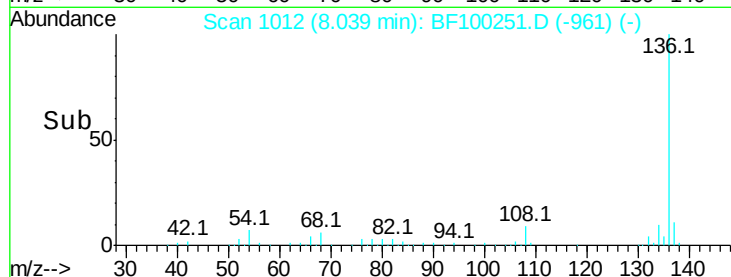
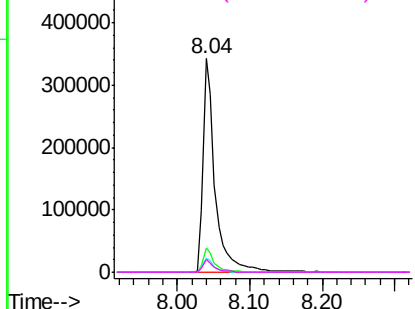
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.04 min Scan# 1012  
Delta R.T. -0.00 min  
Lab File: BF100251.D  
Acq: 6 Nov 2017 14:55

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 398133 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.9   | 13.3   |
| 54       | 6.6   | 6.6   | 9.8    |
| 68       | 5.9   | 5.0   | 7.4    |

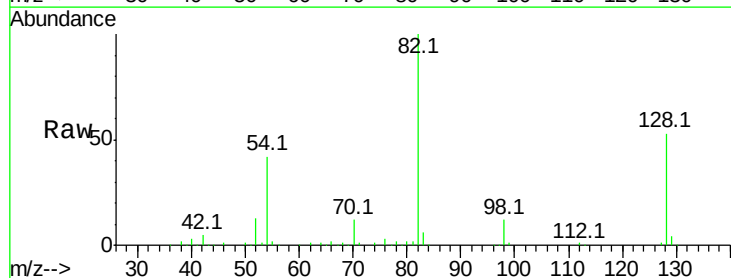


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

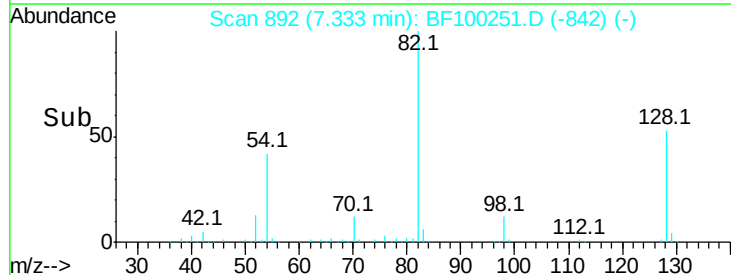
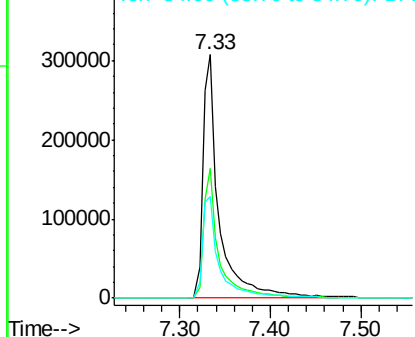


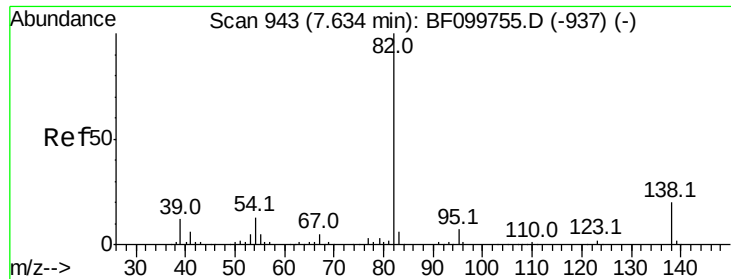
#23  
Nitrobenzene-d5  
Concen: 62.324 ng  
RT: 7.33 min Scan# 892  
Delta R.T. -0.01 min  
Lab File: BF100251.D  
Acq: 6 Nov 2017 14:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 385417 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 53.3  | 36.1  | 54.1   |
| 54       | 41.8  | 41.4  | 62.2   |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 34.346 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.26 min

Lab File: BF100251.D

Acq: 6 Nov 2017 14:55

Instrument :

BNA\_F

ClientSampleId :

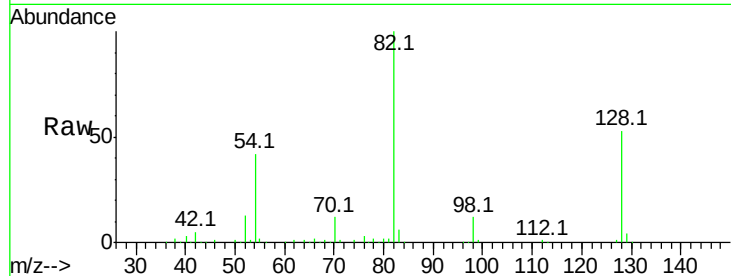
Tot Ion: 82 Resp: 385417

Ion Ratio Lower Upper

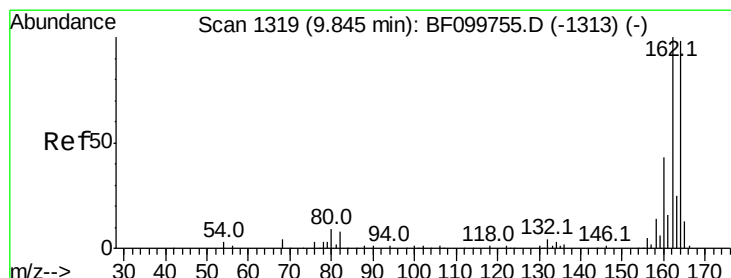
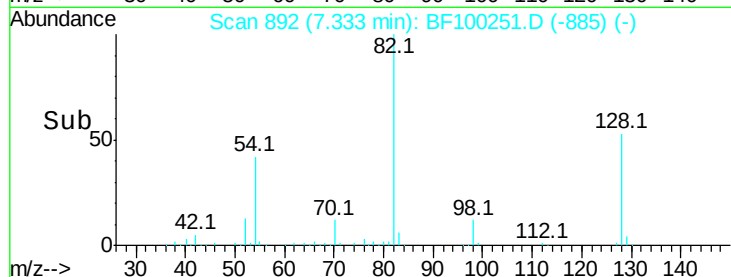
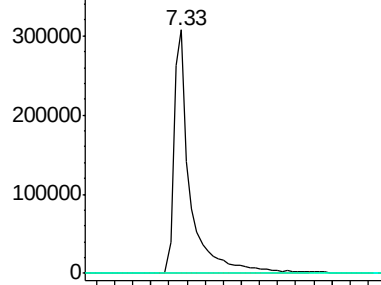
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF100251.D

Acq: 6 Nov 2017 14:55

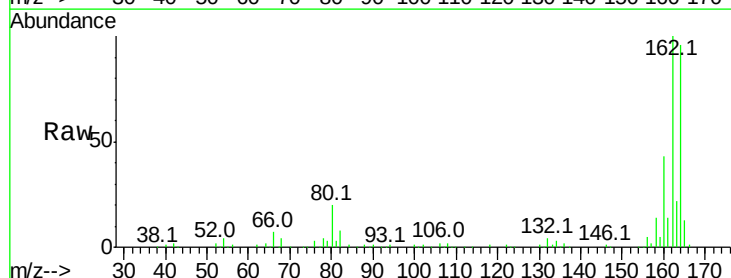
Tgt Ion:164 Resp: 190823

Ion Ratio Lower Upper

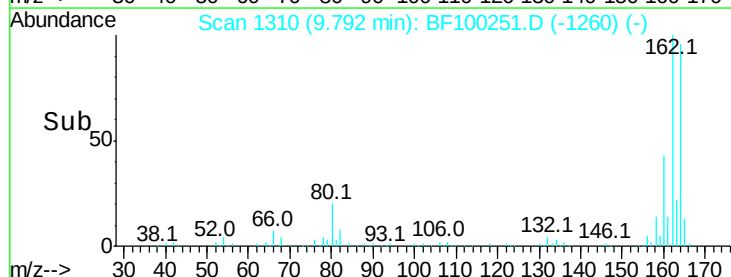
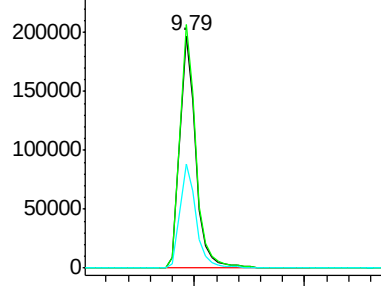
164 100

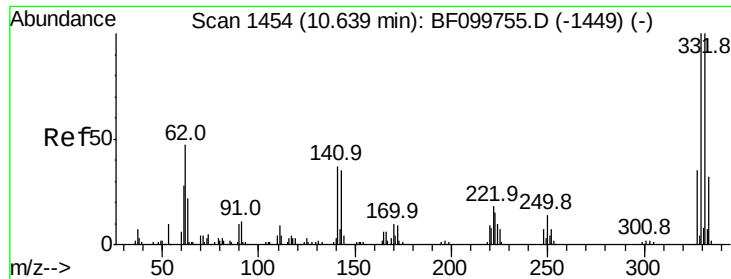
162 104.7 86.1 129.1

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

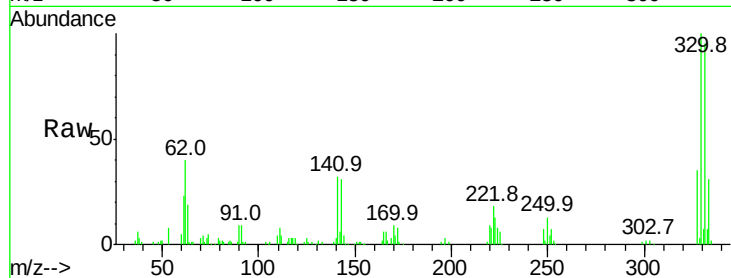




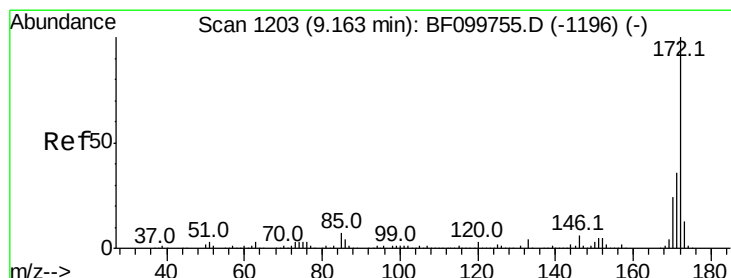
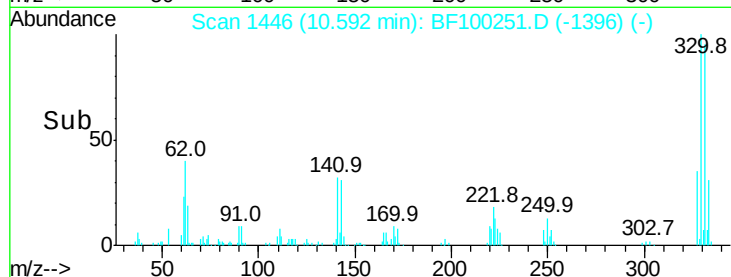
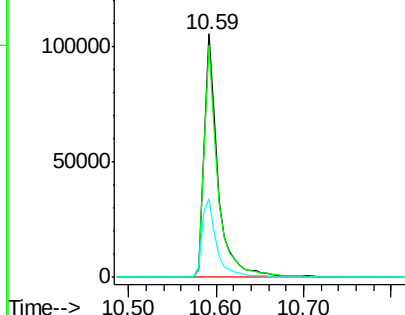
#41  
 2,4,6-Tribromophenol  
 Concen: 66.961 ng  
 RT: 10.59 min Scan# 1446  
 Delta R.T. -0.01 min  
 Lab File: BF100251.D  
 Acq: 6 Nov 2017 14:55

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 116445  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 77.0 115.6  
 141 34.1 29.9 44.9

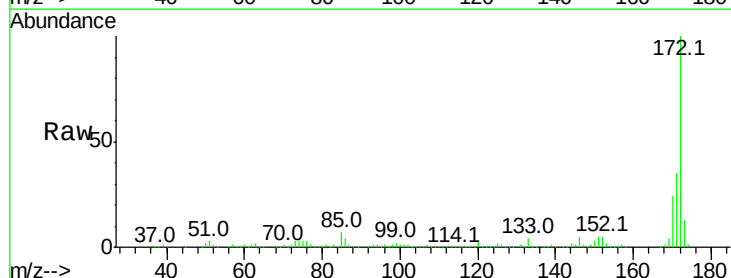


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

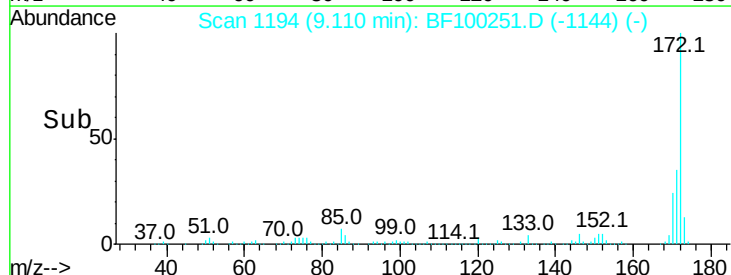
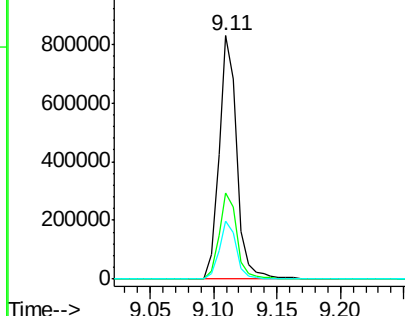


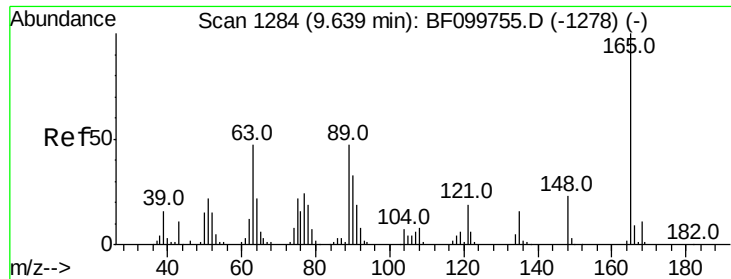
#44  
 2-Fluorobiphenyl  
 Concen: 66.084 ng  
 RT: 9.11 min Scan# 1194  
 Delta R.T. -0.01 min  
 Lab File: BF100251.D  
 Acq: 6 Nov 2017 14:55

Tgt Ion:172 Resp: 817341  
 Ion Ratio Lower Upper  
 172 100  
 171 35.3 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

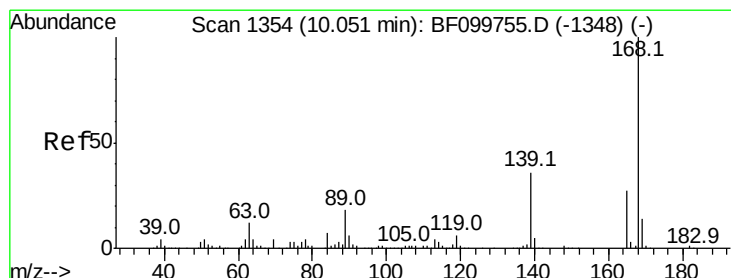
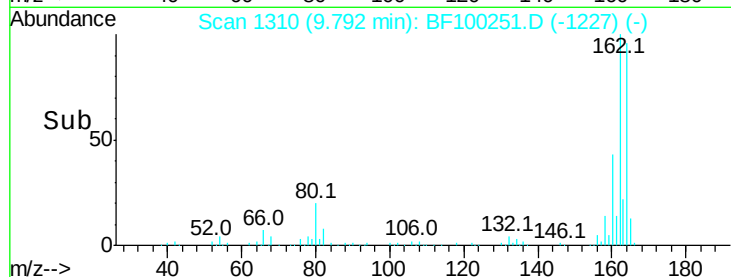
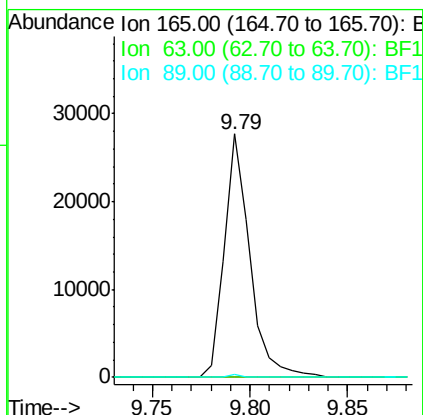
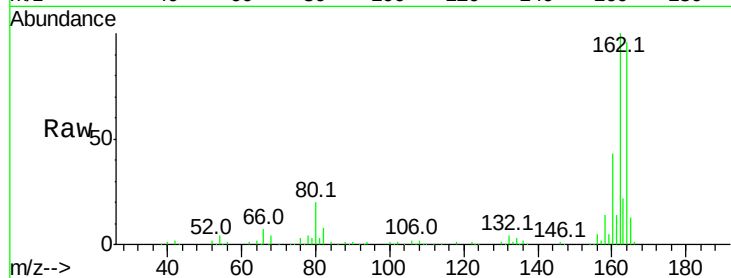




#50  
 2,6-Dinitrotoluene  
 Concen: 7.881 ng  
 RT: 9.79 min Scan# 1310  
 Delta R.T. 0.19 min  
 Lab File: BF100251.D  
 Acq: 6 Nov 2017 14:55

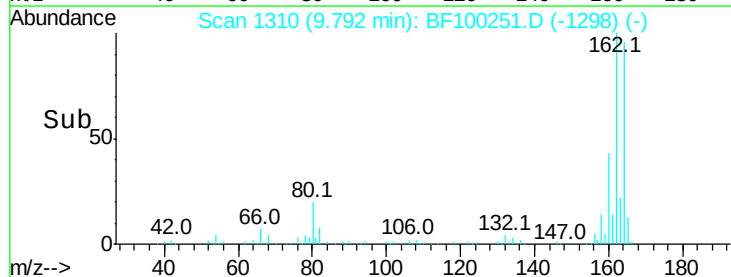
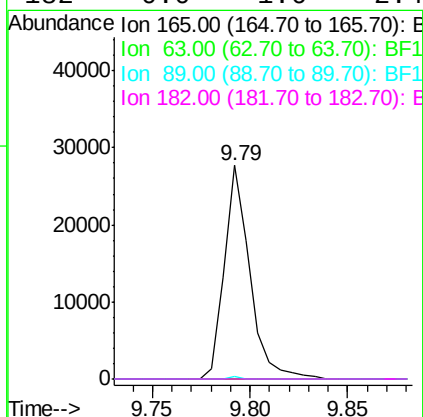
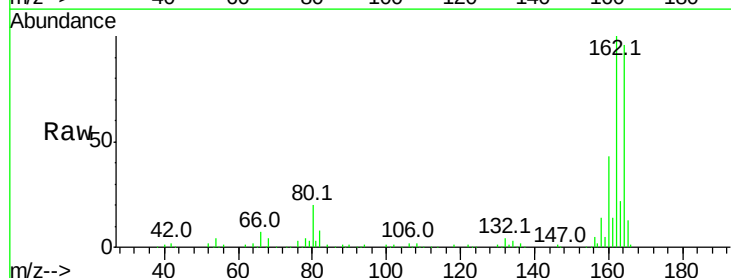
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 1.2   | 44.0  | 66.0# |

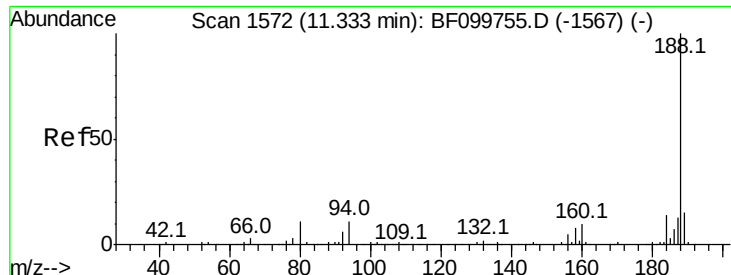


#56  
 2,4-Dinitrotoluene  
 Concen: 6.544 ng  
 RT: 9.79 min Scan# 1310  
 Delta R.T. -0.23 min  
 Lab File: BF100251.D  
 Acq: 6 Nov 2017 14:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 36.4  | 54.6# |
| 89      | 1.2   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



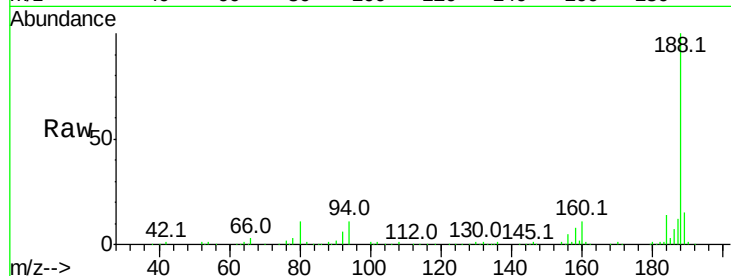




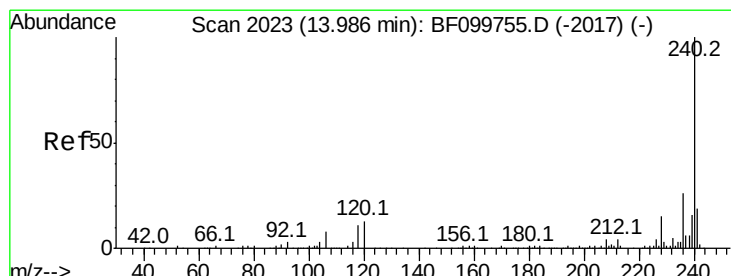
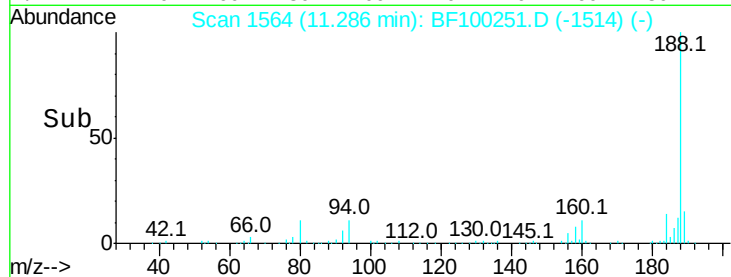
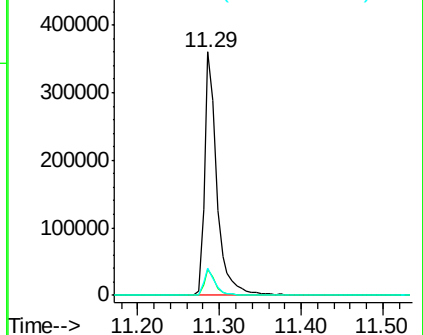
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.29 min Scan# 1564  
Delta R.T. -0.01 min  
Lab File: BF100251.D  
Acq: 6 Nov 2017 14:55

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 379798  
Ion Ratio Lower Upper  
188 100  
94 10.5 8.5 12.7  
80 11.3 9.2 13.8

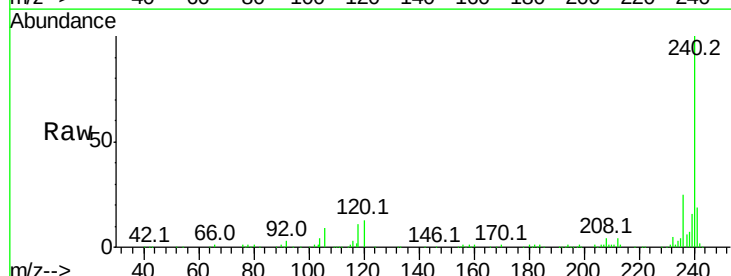


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

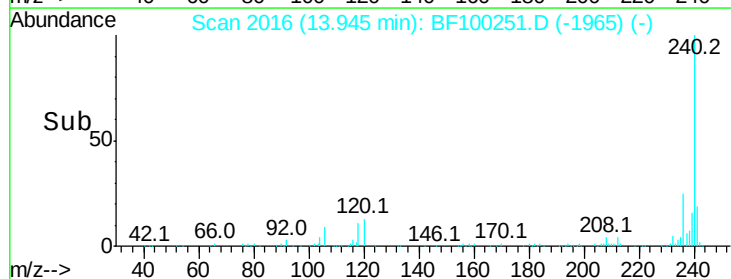
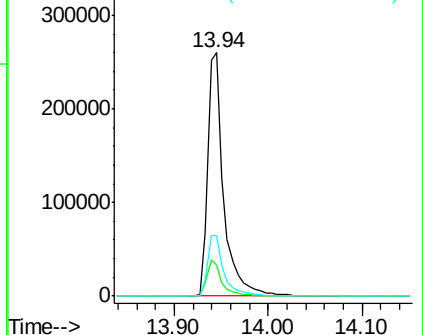


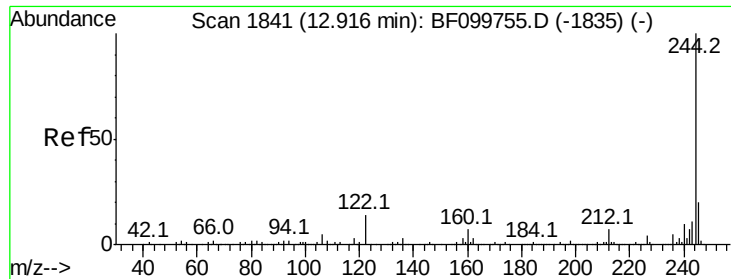
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.94 min Scan# 2016  
Delta R.T. -0.00 min  
Lab File: BF100251.D  
Acq: 6 Nov 2017 14:55

Tgt Ion:240 Resp: 309790  
Ion Ratio Lower Upper  
240 100  
120 12.9 9.5 14.3  
236 24.8 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: 59.946 ng

RT: 12.87 min Scan# 1833

Delta R.T. -0.00 min

Lab File: BF100251.D

Acq: 6 Nov 2017 14:55

Instrument :

BNA\_F

ClientSampled :

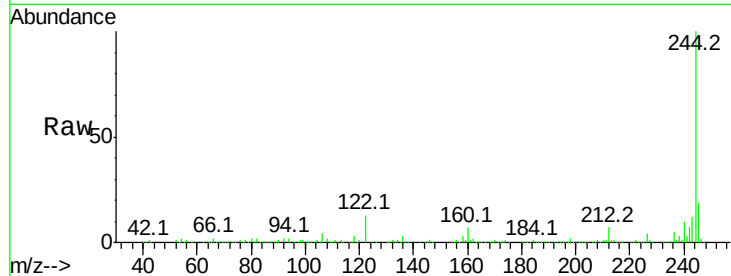
Tot Ion:244 Resp: 849769

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

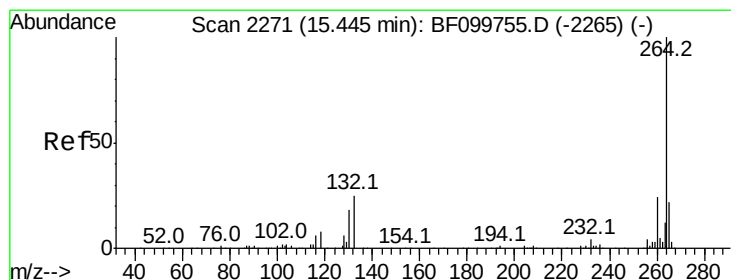
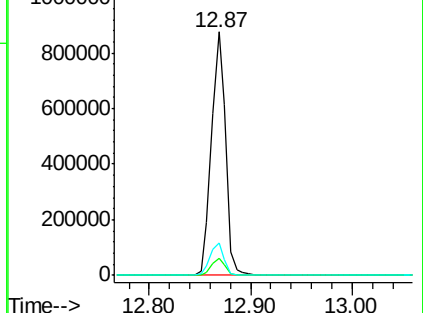
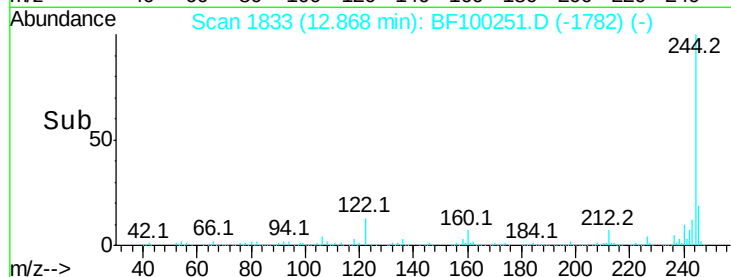
122 13.3 11.0 16.4



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: 15.40 min Scan# 2264

Delta R.T. -0.00 min

Lab File: BF100251.D

Acq: 6 Nov 2017 14:55

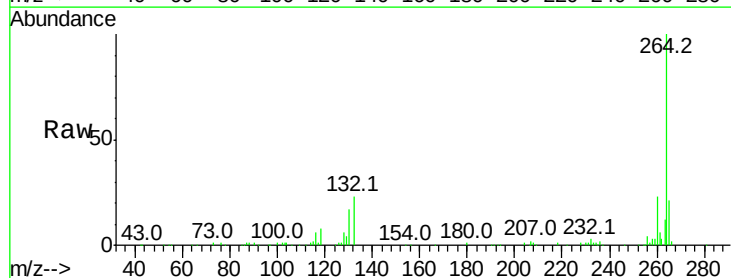
Tgt Ion:264 Resp: 243019

Ion Ratio Lower Upper

264 100

260 23.5 19.2 28.8

265 20.8 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

