

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF120617\  
 Data File : BF101183.D  
 Acq On : 6 Dec 2017 22:13  
 Operator : SJ/JU  
 Sample : I6708-01  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1

Quant Time: Dec 06 23:53:45 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 04 13:07:49 2017  
 Response via : Initial Calibration

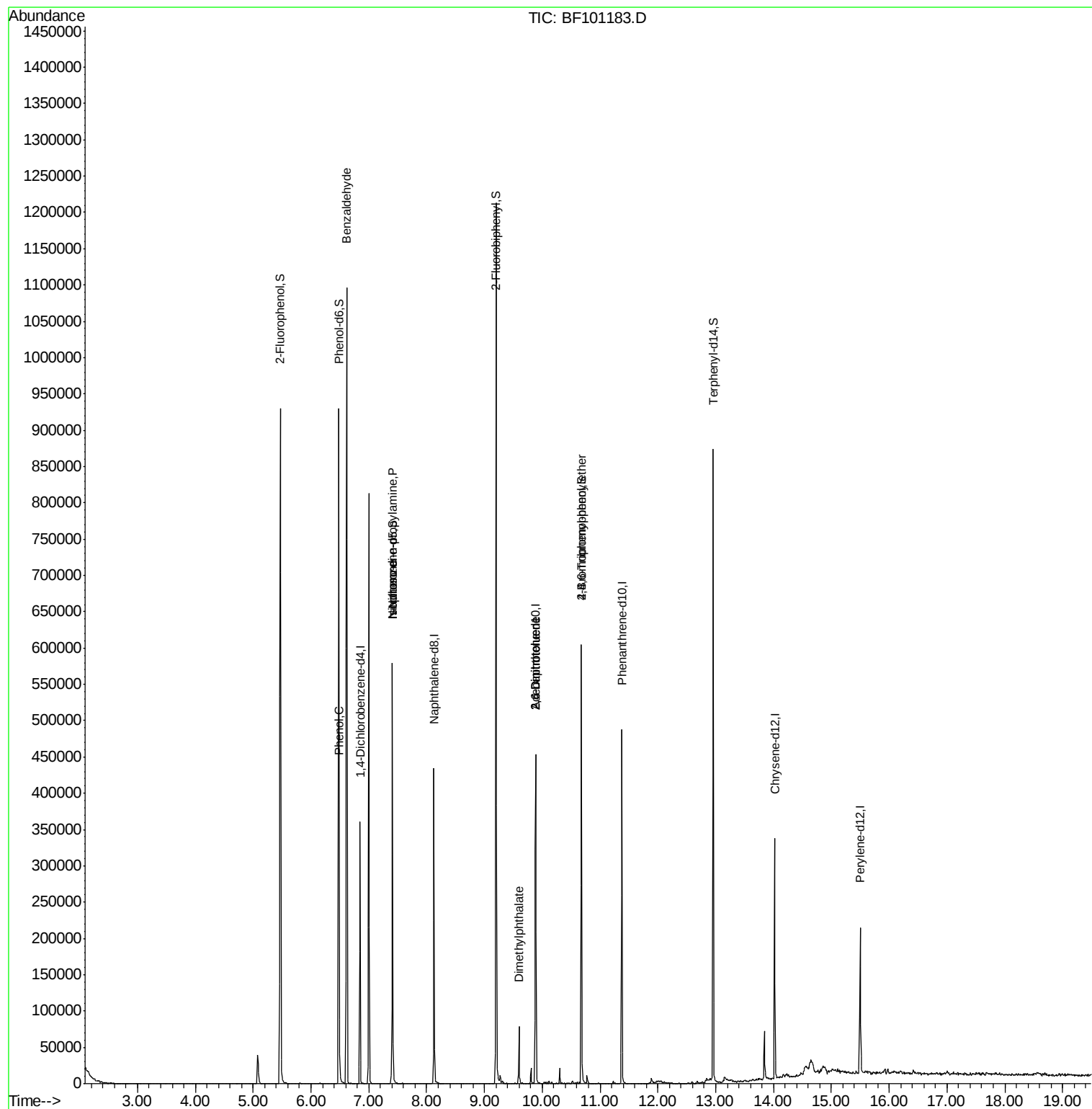
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 50385    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 8.13  | 136  | 194037   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10           | 9.89  | 164  | 90938    | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10           | 11.37 | 188  | 167951   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12               | 14.02 | 240  | 110092   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12               | 15.50 | 264  | 101958   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.47  | 112  | 264848   | 86.86  | ng    | 0.00        |
| 7) Phenol-d6                   | 6.48  | 99   | 311923   | 84.26  | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 7.41  | 82   | 186662   | 57.39  | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol       | 10.68 | 330  | 78844    | 72.17  | ng    | 0.00        |
| 44) 2-Fluorobiphenyl           | 9.20  | 172  | 378888   | 57.01  | ng    | 0.00        |
| 78) Terphenyl-d14              | 12.96 | 244  | 304462   | 60.49  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 9) Benzaldehyde                | 6.62  | 77   | 5956     | 2.629  | ng    | Qvalue # 79 |
| 10) Phenol                     | 6.49  | 94   | 10510    | 2.553  | ng    | # 96        |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 23472    | 9.415  | ng    | # 88        |
| 25) Isophorone                 | 7.41  | 82   | 186659   | 33.595 | ng    | # 64        |
| 49) Dimethylphthalate          | 9.60  | 163  | 36349    | 4.956  | ng    | # 98        |
| 50) 2,6-Dinitrotoluene         | 9.89  | 165  | 11418    | 7.392  | ng    | # 24        |
| 56) 2,4-Dinitrotoluene         | 9.89  | 165  | 11418    | 5.516  | ng    | # 21        |
| 66) 4-Bromophenyl-phenylether  | 10.67 | 248  | 4666     | 2.482  | ng    | # 1         |

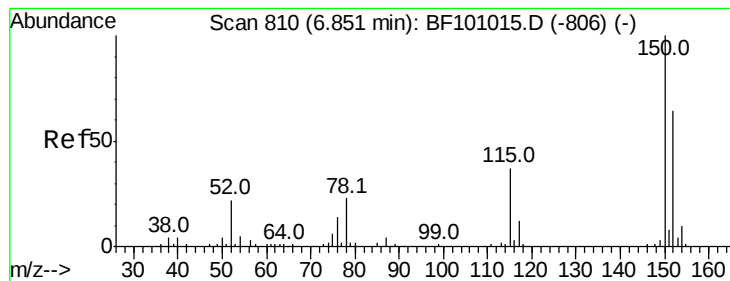
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF120617\  
Data File : BF101183.D  
Acq On : 6 Dec 2017 22:13  
Operator : SJ/JU  
Sample : I6708-01  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

Quant Time: Dec 06 23:53:45 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 04 13:07:49 2017  
Response via : Initial Calibration



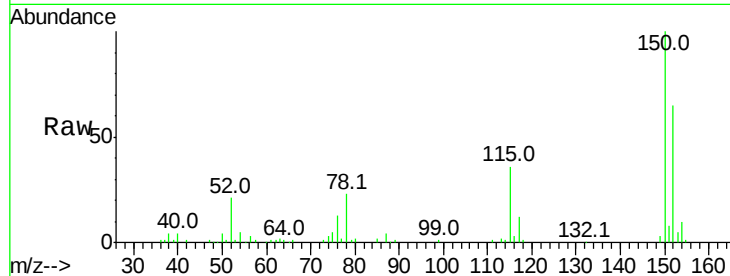


#1

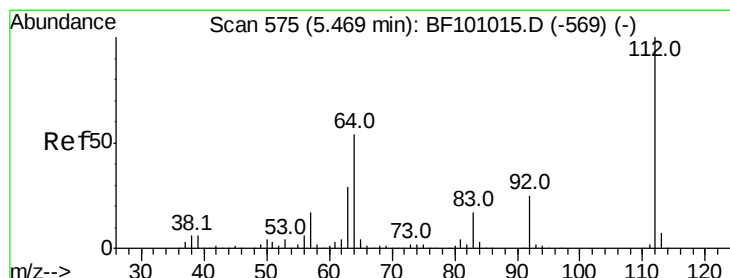
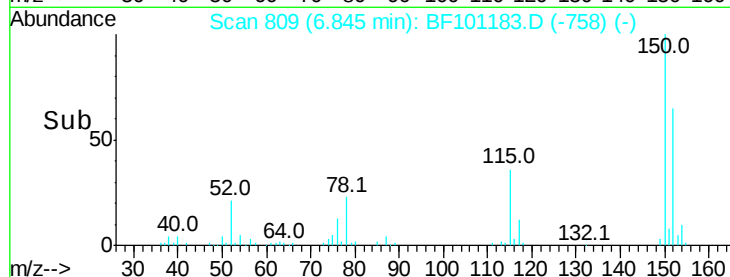
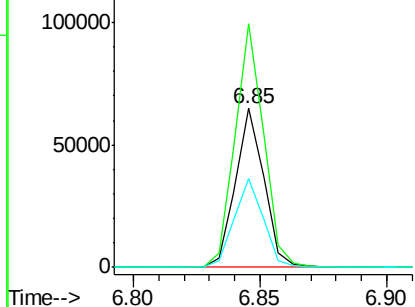
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 809  
Delta R.T. 0.00 min  
Lab File: BF101183.D  
Acq: 6 Dec 2017 22:13

Instrument :  
BNA\_F  
ClientSampled :  
SP-1

Tot Ion:152 Resp: 50385  
Ion Ratio Lower Upper  
152 100  
150 153.5 124.6 186.8  
115 55.8 50.1 75.1



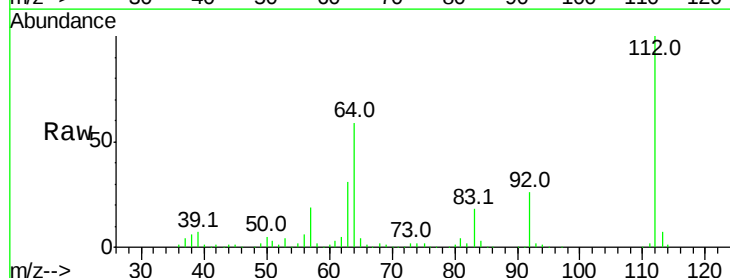
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



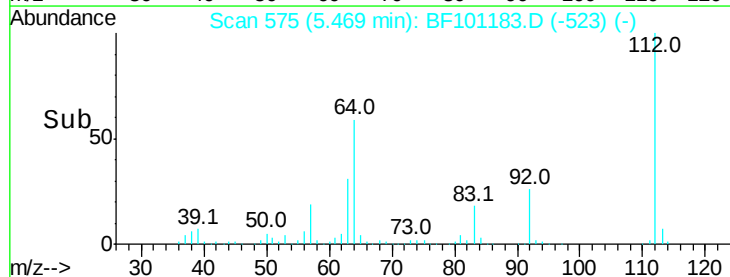
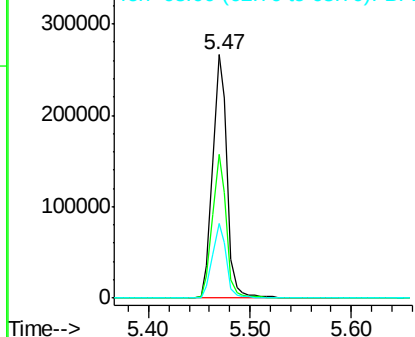
#5

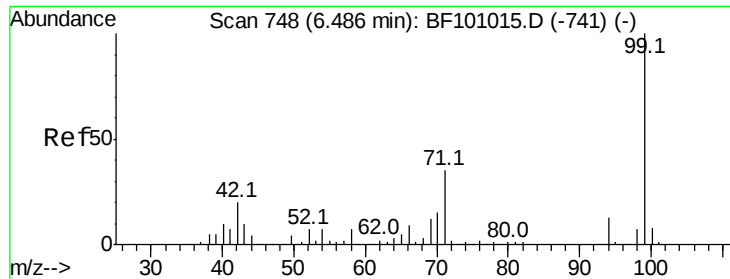
2-Fluorophenol  
Concen: 86.860 ng  
RT: 5.47 min Scan# 575  
Delta R.T. 0.01 min  
Lab File: BF101183.D  
Acq: 6 Dec 2017 22:13

Tgt Ion:112 Resp: 264848  
Ion Ratio Lower Upper  
112 100  
64 59.3 47.9 71.9  
63 30.9 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: 84.260 ng

RT: 6.48 min Scan# 747

Delta R.T. 0.00 min

Lab File: BF101183.D

Acq: 6 Dec 2017 22:13

Instrument :

BNA\_F

ClientSampleId :

SP-1

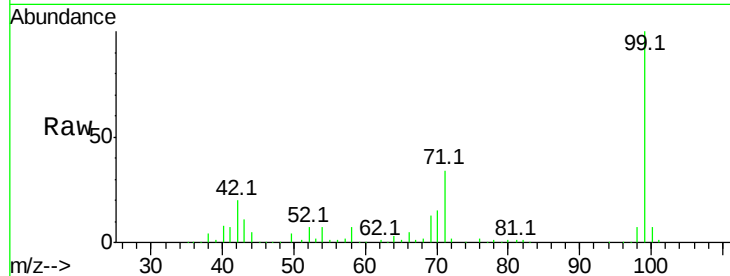
Tot Ion: 99 Resp: 311923

Ion Ratio Lower Upper

99 100

42 20.2 14.5 21.7

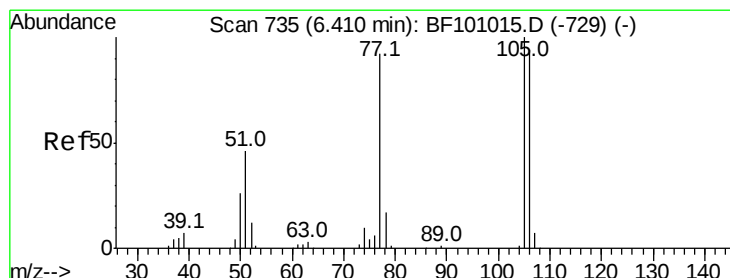
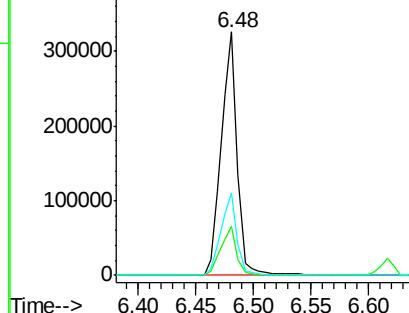
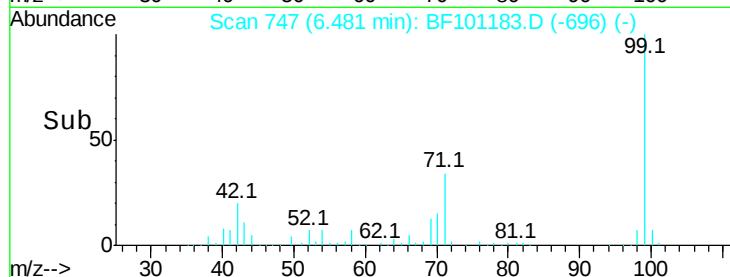
71 34.0 25.4 38.0



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



#9

Benzaldehyde

Concen: 2.629 ng

RT: 6.62 min Scan# 770

Delta R.T. 0.21 min

Lab File: BF101183.D

Acq: 6 Dec 2017 22:13

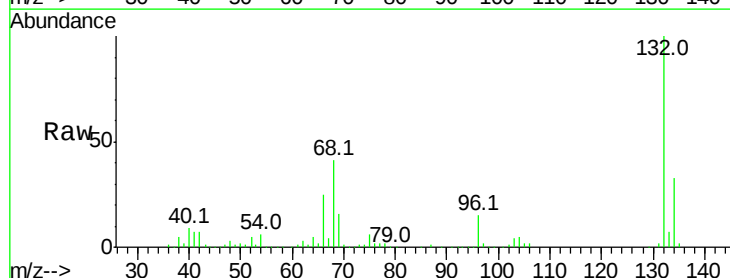
Tgt Ion: 77 Resp: 5956

Ion Ratio Lower Upper

77 100

105 83.6 81.1 121.1

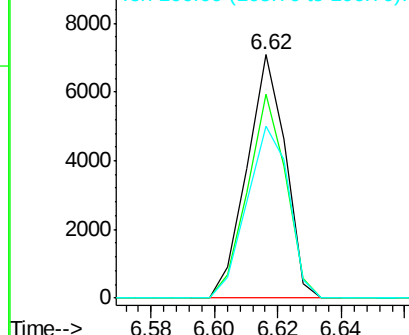
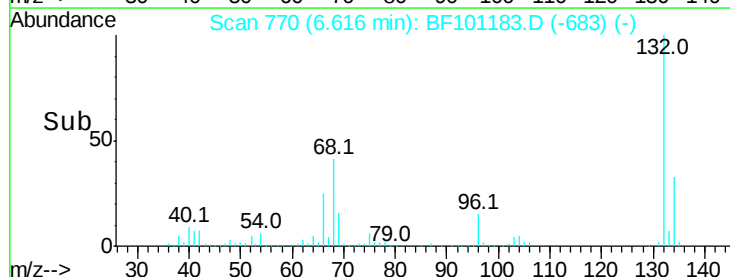
106 70.6 74.5 114.5#

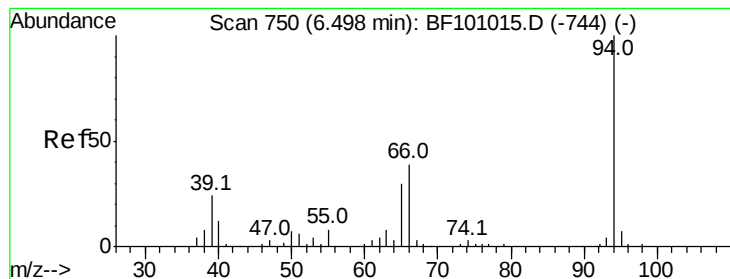


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): B

Ion 106.00 (105.70 to 106.70): B





#10

Phenol

Concen: 2.553 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.00 min

Lab File: BF101183.D

Acq: 6 Dec 2017 22:13

Instrument :

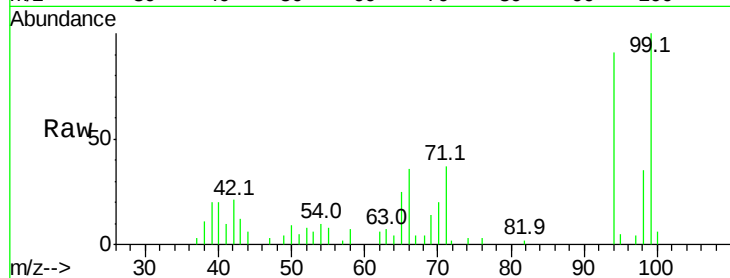
BNA\_F

ClientSampleId :

SP-1

Tot Ion: 94 Resp: 10510

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 27.8  | 7.9   | 47.9  |
| 66  | 40.0  | 16.2  | 56.2  |



Abundance

Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

20000

15000

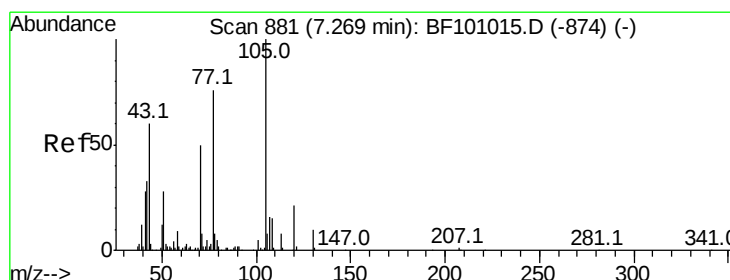
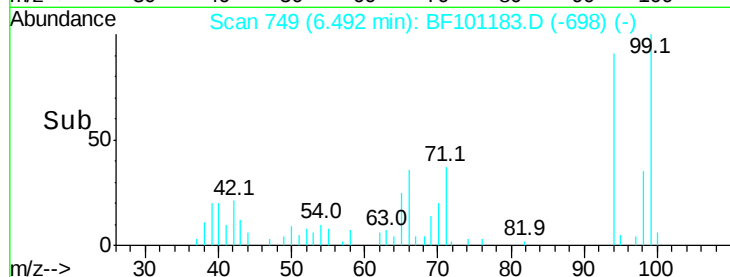
10000

5000

0

6.45 6.50

Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 9.415 ng

RT: 7.41 min Scan# 905

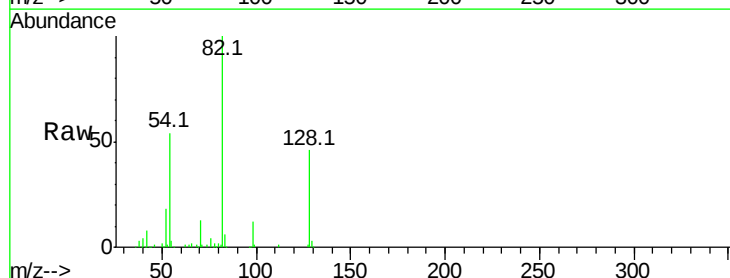
Delta R.T. 0.15 min

Lab File: BF101183.D

Acq: 6 Dec 2017 22:13

Tgt Ion: 70 Resp: 23472

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 58.6  | 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

40000

30000

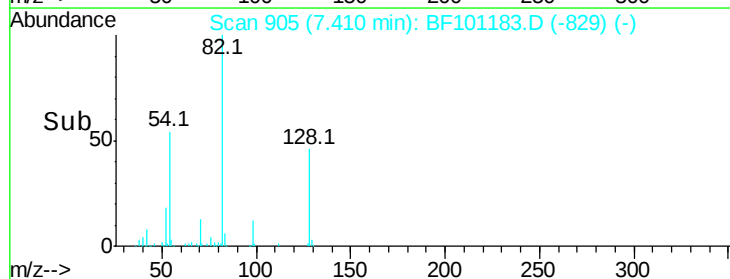
20000

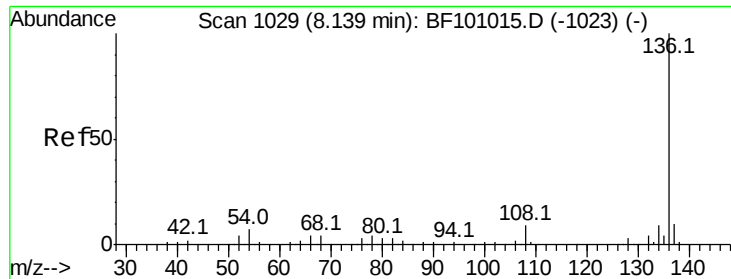
10000

0

7.35 7.40 7.45

Time-->

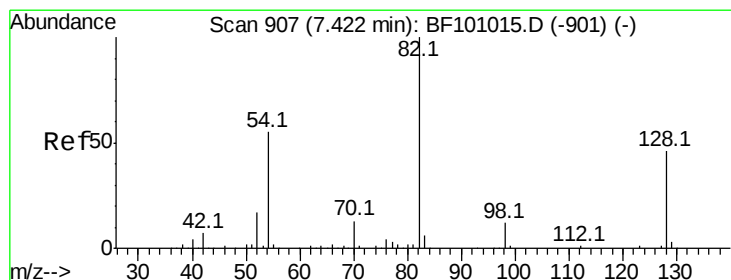
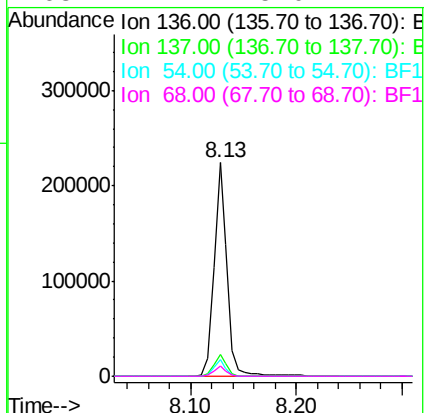
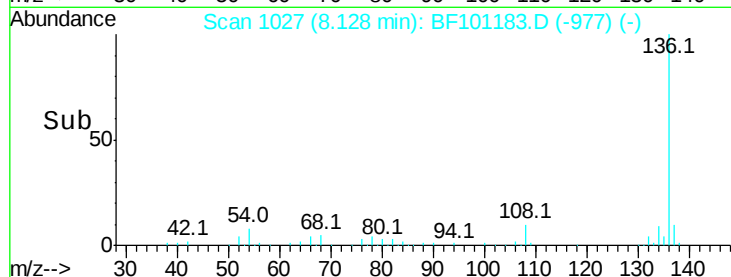
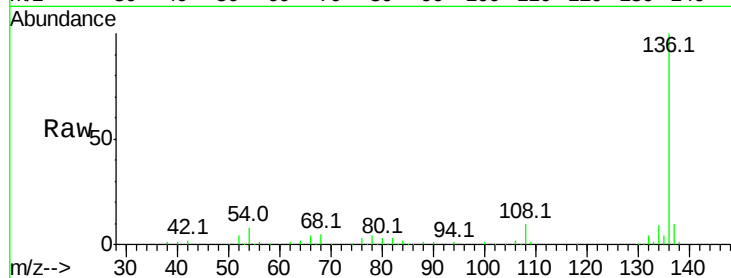




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1027  
Delta R.T. -0.01 min  
Lab File: BF101183.D  
Acq: 6 Dec 2017 22:13

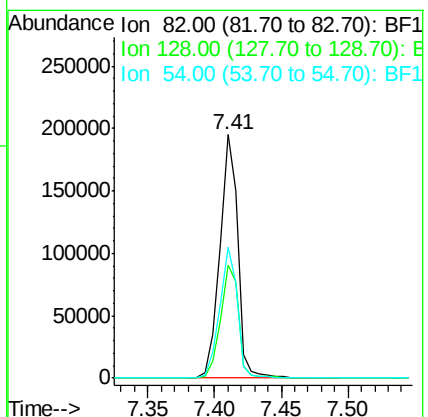
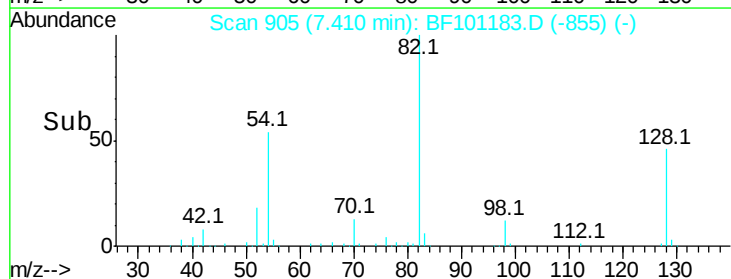
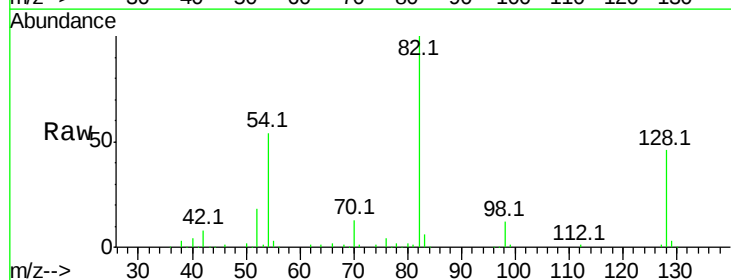
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

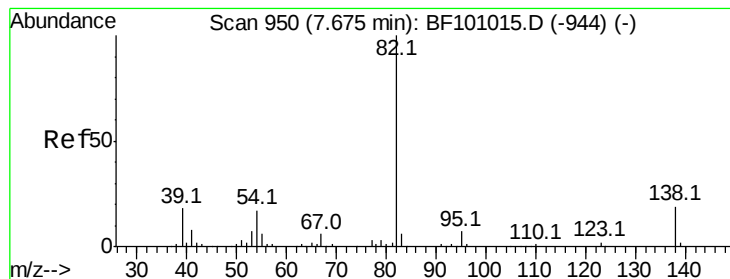
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 194037 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 8.9   | 13.3   |
| 54       | 7.6   | 6.6   | 9.8    |
| 68       | 4.7   | 5.0   | 7.4#   |



#23  
Nitrobenzene-d5  
Concen: 57.386 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: BF101183.D  
Acq: 6 Dec 2017 22:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 186662 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.2  | 36.1  | 54.1   |
| 54       | 53.8  | 41.4  | 62.2   |





#25

Isophorone

Concen: 33.595 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF101183.D

Acq: 6 Dec 2017 22:13

Instrument :

BNA\_F

ClientSampleId :

SP-1

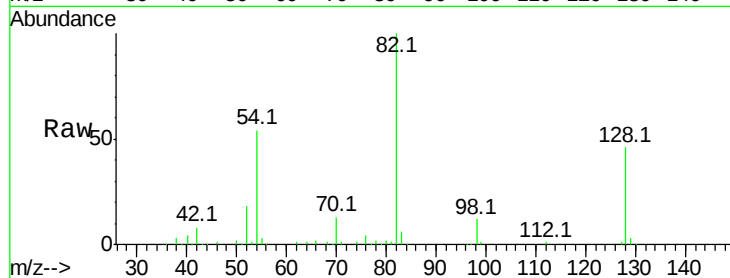
Tot Ion: 82 Resp: 186659

Ion Ratio Lower Upper

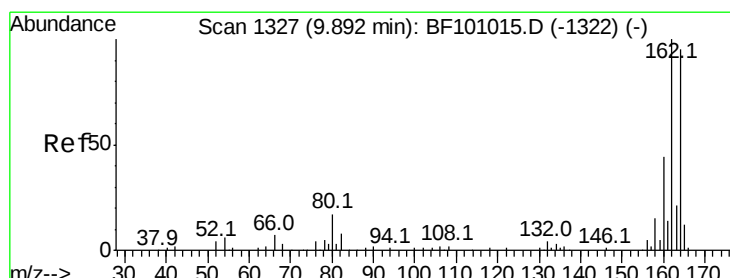
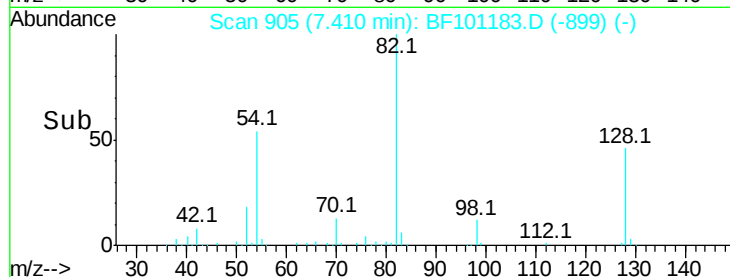
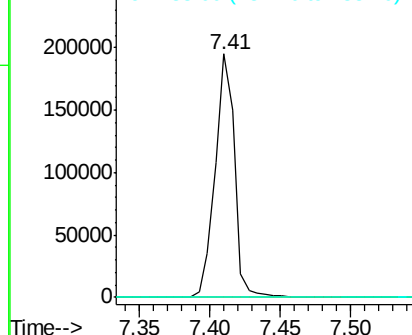
82 100

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: 9.89 min Scan# 1326

Delta R.T. 0.00 min

Lab File: BF101183.D

Acq: 6 Dec 2017 22:13

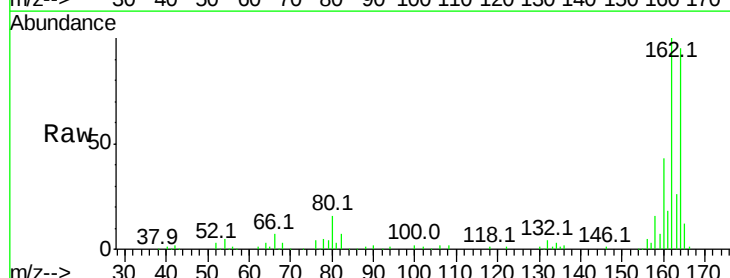
Tgt Ion:164 Resp: 90938

Ion Ratio Lower Upper

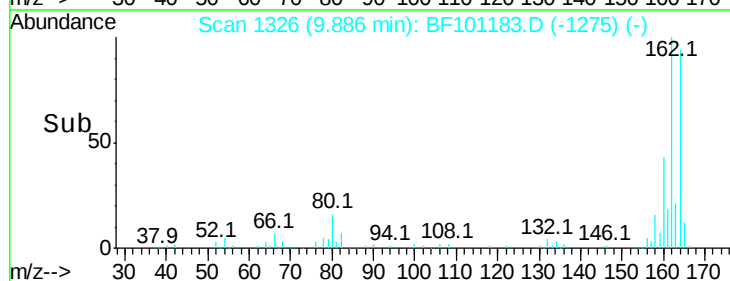
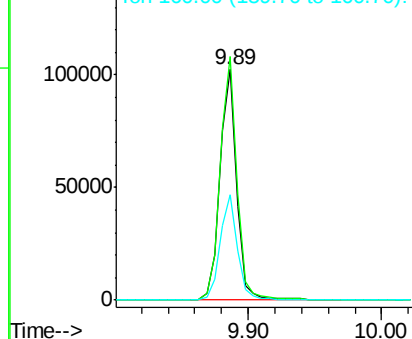
164 100

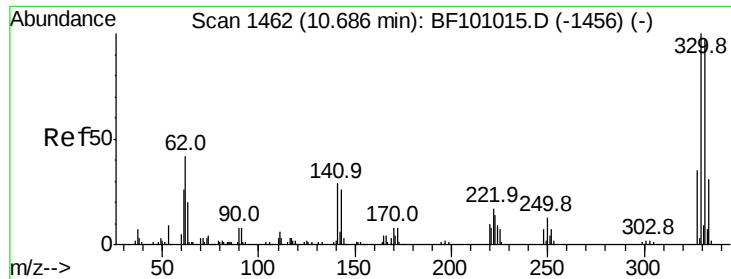
162 105.8 86.1 129.1

160 45.8 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: 72.173 ng

RT: 10.68 min Scan# 1461

Delta R.T. 0.00 min

Lab File: BF101183.D

Acq: 6 Dec 2017 22:13

Instrument :

BNA\_F

ClientSampleId :

SP-1

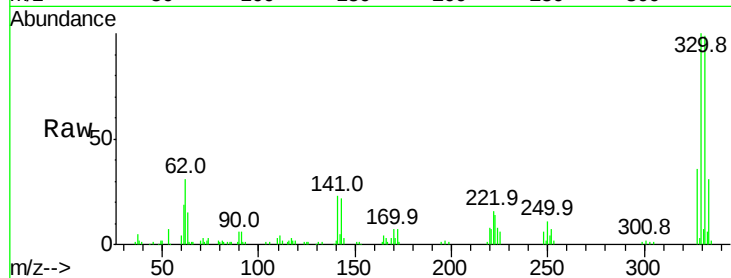
Tot Ion:330 Resp: 78844

Ion Ratio Lower Upper

330 100

332 99.2 77.0 115.6

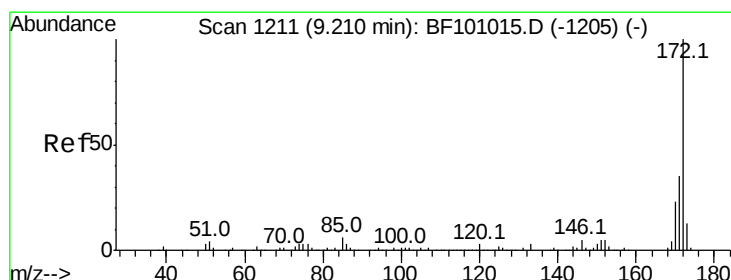
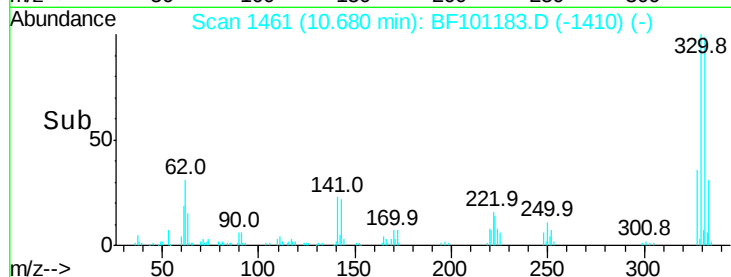
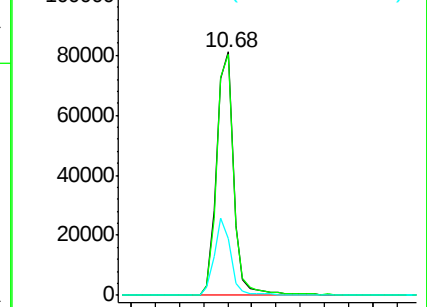
141 30.1 29.9 44.9



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: 57.005 ng

RT: 9.20 min Scan# 1210

Delta R.T. -0.01 min

Lab File: BF101183.D

Acq: 6 Dec 2017 22:13

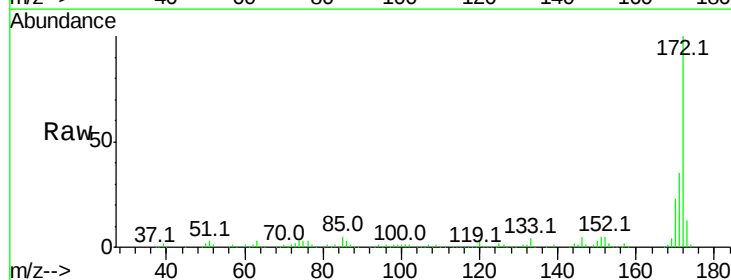
Tgt Ion:172 Resp: 378888

Ion Ratio Lower Upper

172 100

171 35.4 29.7 44.5

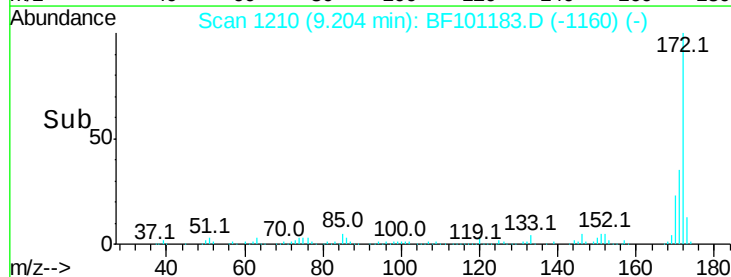
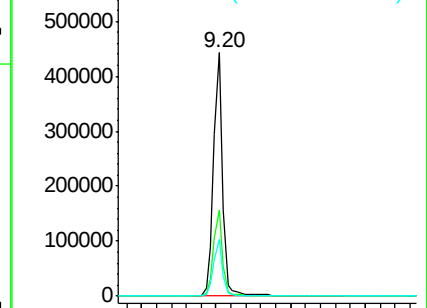
170 23.3 19.6 29.4

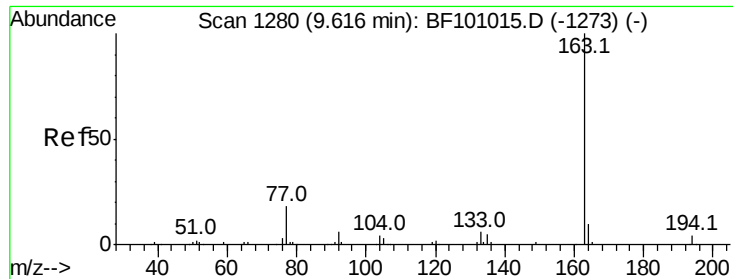


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

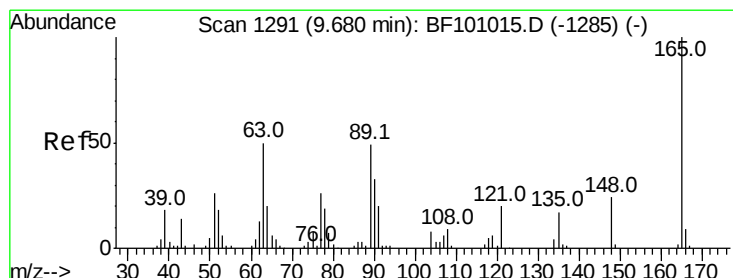
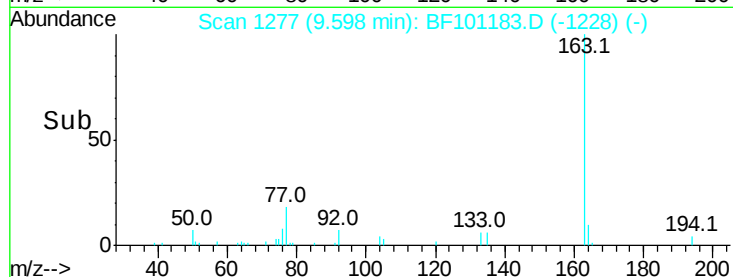
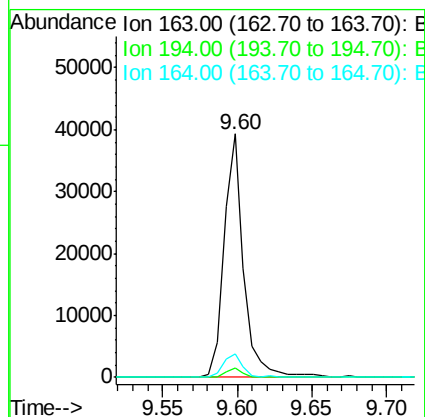
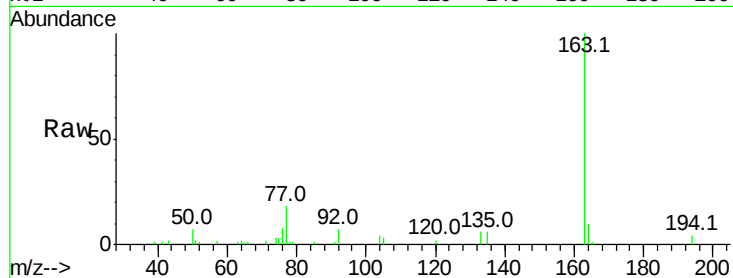




#49  
Dimethylphthalate  
Concen: 4.956 ng  
RT: 9.60 min Scan# 1277  
Delta R.T. -0.01 min  
Lab File: BF101183.D  
Acq: 6 Dec 2017 22:13

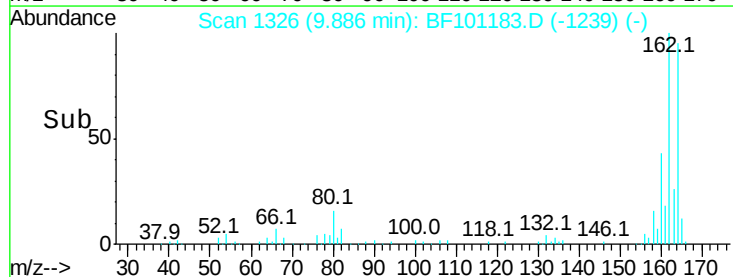
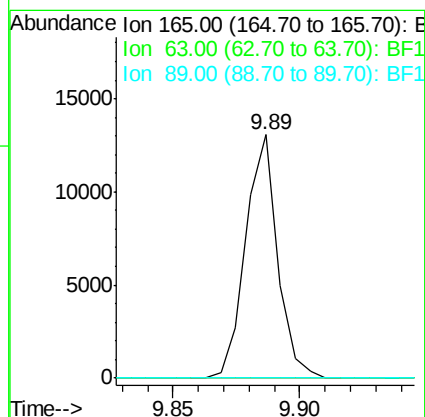
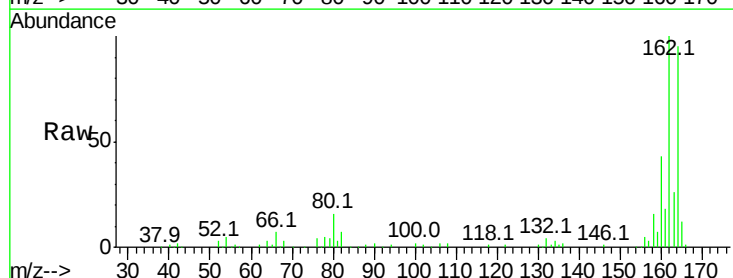
Instrument :  
BNA\_F  
ClientSampled :  
SP-1

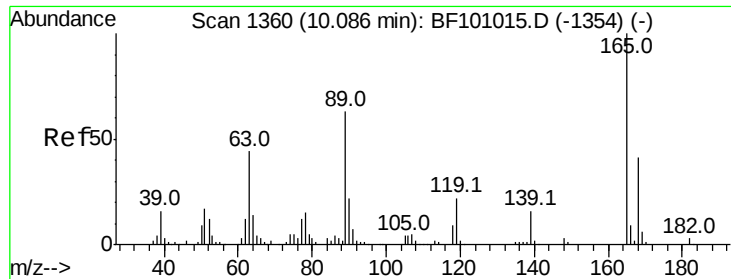
Tot Ion:163 Resp: 36349  
Ion Ratio Lower Upper  
163 100  
194 3.9 2.7 4.1  
164 9.6 8.2 12.2



#50  
2,6-Dinitrotoluene  
Concen: 7.392 ng  
RT: 9.89 min Scan# 1326  
Delta R.T. 0.21 min  
Lab File: BF101183.D  
Acq: 6 Dec 2017 22:13

Tgt Ion:165 Resp: 11418  
Ion Ratio Lower Upper  
165 100  
63 0.0 44.7 67.1#  
89 0.0 44.0 66.0#

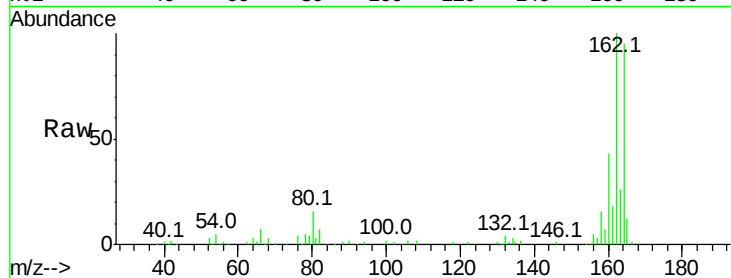




#56  
 2,4-Dinitrotoluene  
 Concen: 5.516 ng  
 RT: 9.89 min Scan# 1326  
 Delta R.T. -0.19 min  
 Lab File: BF101183.D  
 Acq: 6 Dec 2017 22:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 11418      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.0   | 36.4 54.6# |
| 89          | 0.0   | 57.8 86.6# |
| 182         | 0.0   | 1.6 2.4#   |

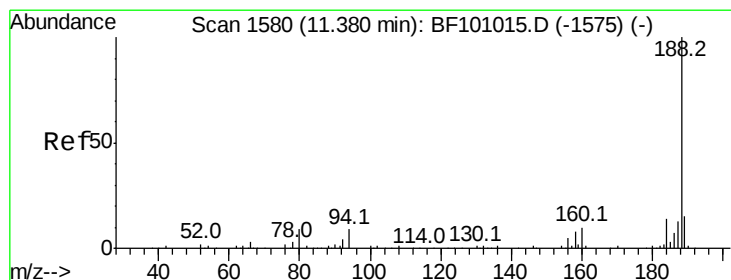
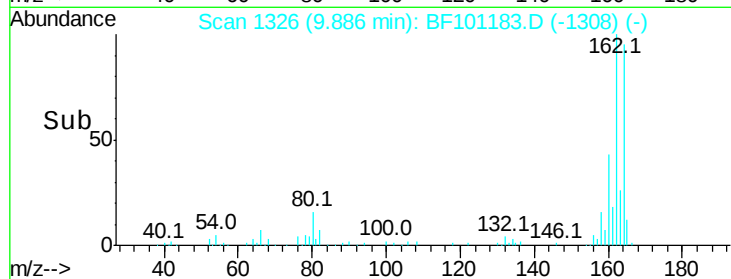
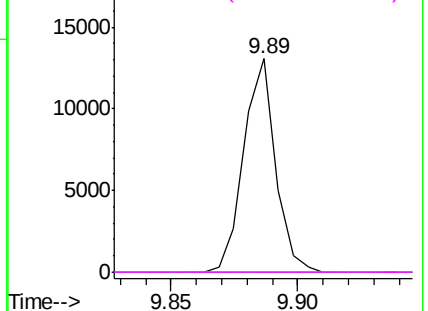


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

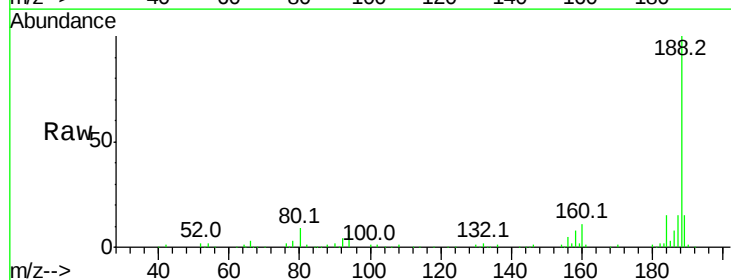
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.37 min Scan# 1579  
 Delta R.T. 0.00 min  
 Lab File: BF101183.D  
 Acq: 6 Dec 2017 22:13

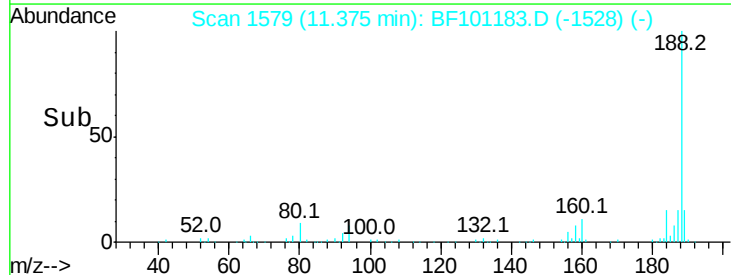
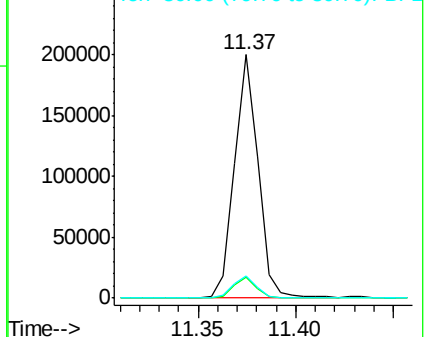
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:188 | Resp: | 167951    |
| Ion Ratio   | Lower | Upper     |
| 188         | 100   |           |
| 94          | 8.4   | 8.5 12.7# |
| 80          | 9.0   | 9.2 13.8# |

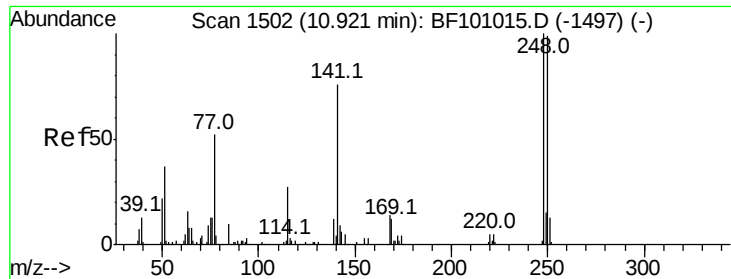


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

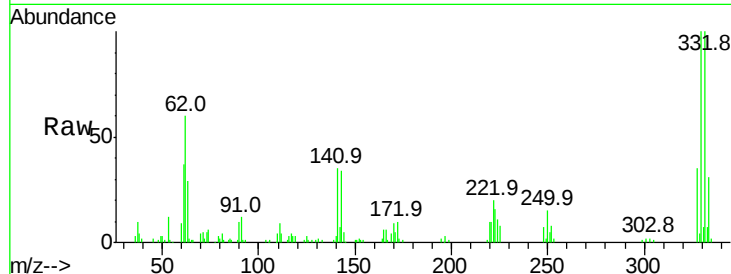




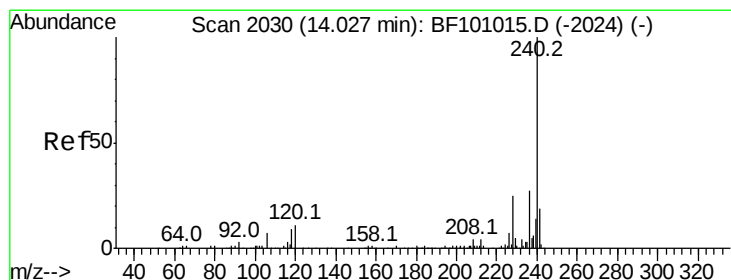
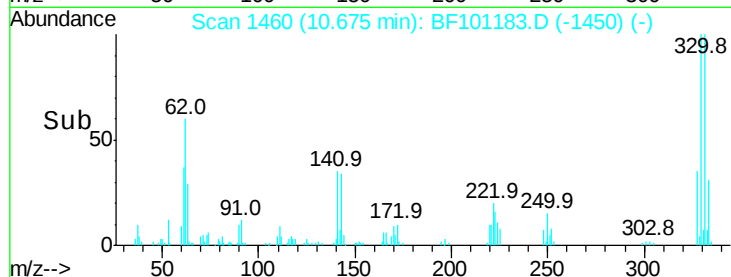
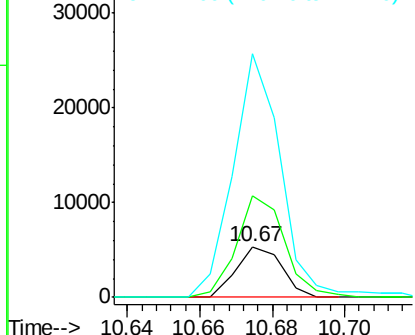
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.482 ng  
 RT: 10.67 min Scan# 1460  
 Delta R.T. -0.24 min  
 Lab File: BF101183.D  
 Acq: 6 Dec 2017 22:13

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1

Tot Ion:248 Resp: 4666  
 Ion Ratio Lower Upper  
 248 100  
 250 201.7 76.9 115.3#  
 141 483.2 74.4 111.6#

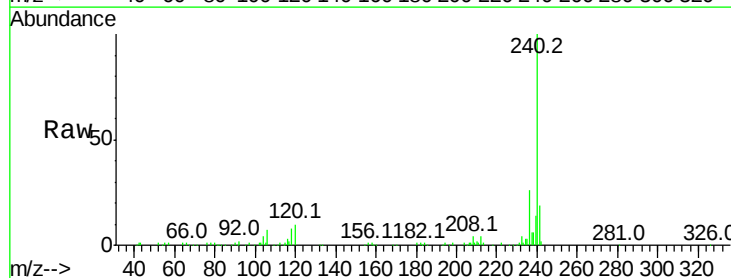


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

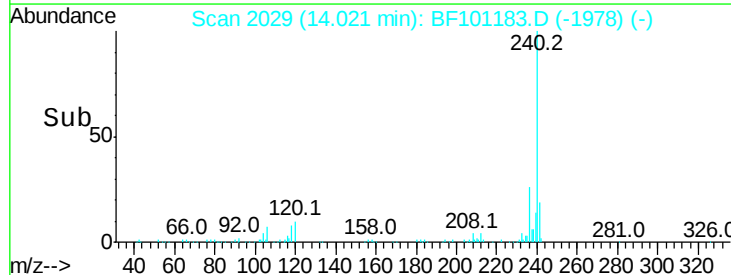
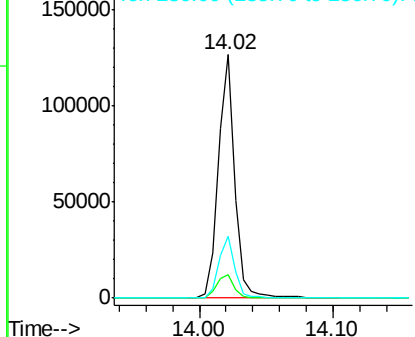


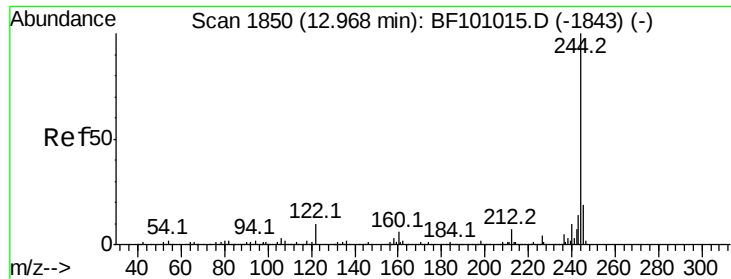
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.02 min Scan# 2029  
 Delta R.T. 0.00 min  
 Lab File: BF101183.D  
 Acq: 6 Dec 2017 22:13

Tgt Ion:240 Resp: 110092  
 Ion Ratio Lower Upper  
 240 100  
 120 9.7 9.5 14.3  
 236 25.6 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: 60.489 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF101183.D

Acq: 6 Dec 2017 22:13

Instrument :

BNA\_F

ClientSampleId :

SP-1

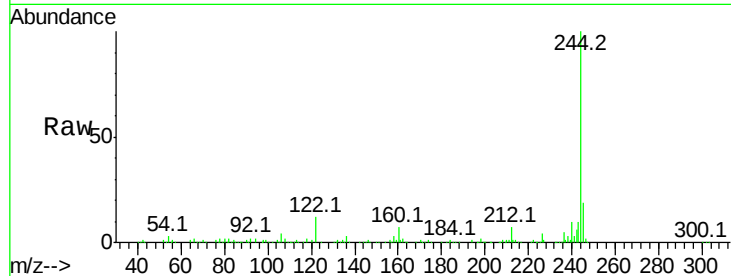
Tot Ion:244 Resp: 304462

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

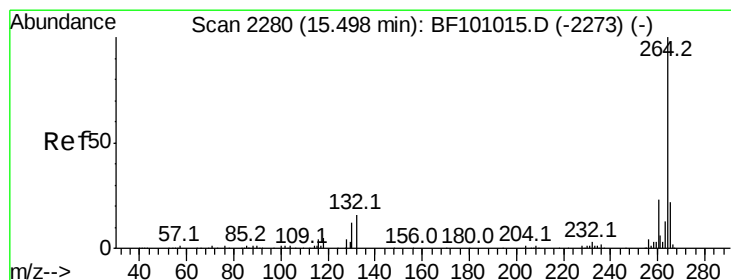
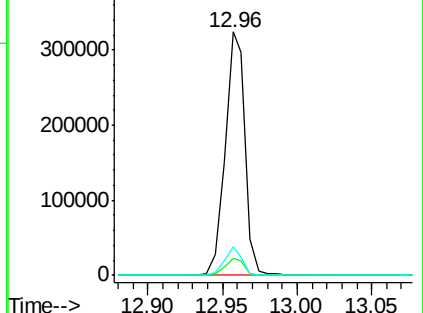
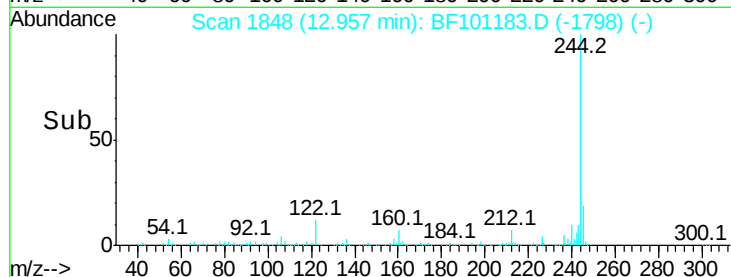
122 11.5 11.0 16.4



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

Perylene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. 0.01 min

Lab File: BF101183.D

Acq: 6 Dec 2017 22:13

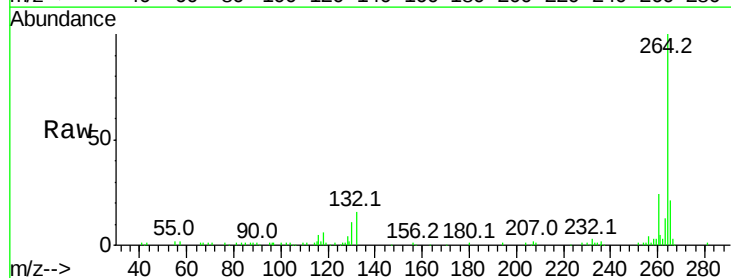
Tgt Ion:264 Resp: 101958

Ion Ratio Lower Upper

264 100

260 23.7 19.2 28.8

265 21.3 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

