

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF021216\  
 Data File : BF085037.D  
 Acq On : 12 Feb 2016 3:16  
 Operator : SJ/IZ  
 Sample : H1410-01  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-B004(16-18)

Quant Time: Feb 12 04:18:13 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 10 13:28:51 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.60  | 152  | 137498   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.90  | 136  | 612553   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.64  | 164  | 282824   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.12 | 188  | 478727   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 13.75 | 240  | 329534   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.11 | 264  | 288323   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.21  | 112  | 1196639  | 135.56 | ng    | 0.01     |
| 7) Phenol-d6                | 6.27  | 99   | 1528755  | 139.69 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.19  | 82   | 1025614  | 94.32  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.43 | 330  | 388887   | 131.82 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 8.98  | 172  | 1803505  | 130.84 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.72 | 244  | 1636499  | 112.53 | ng    | -0.01    |

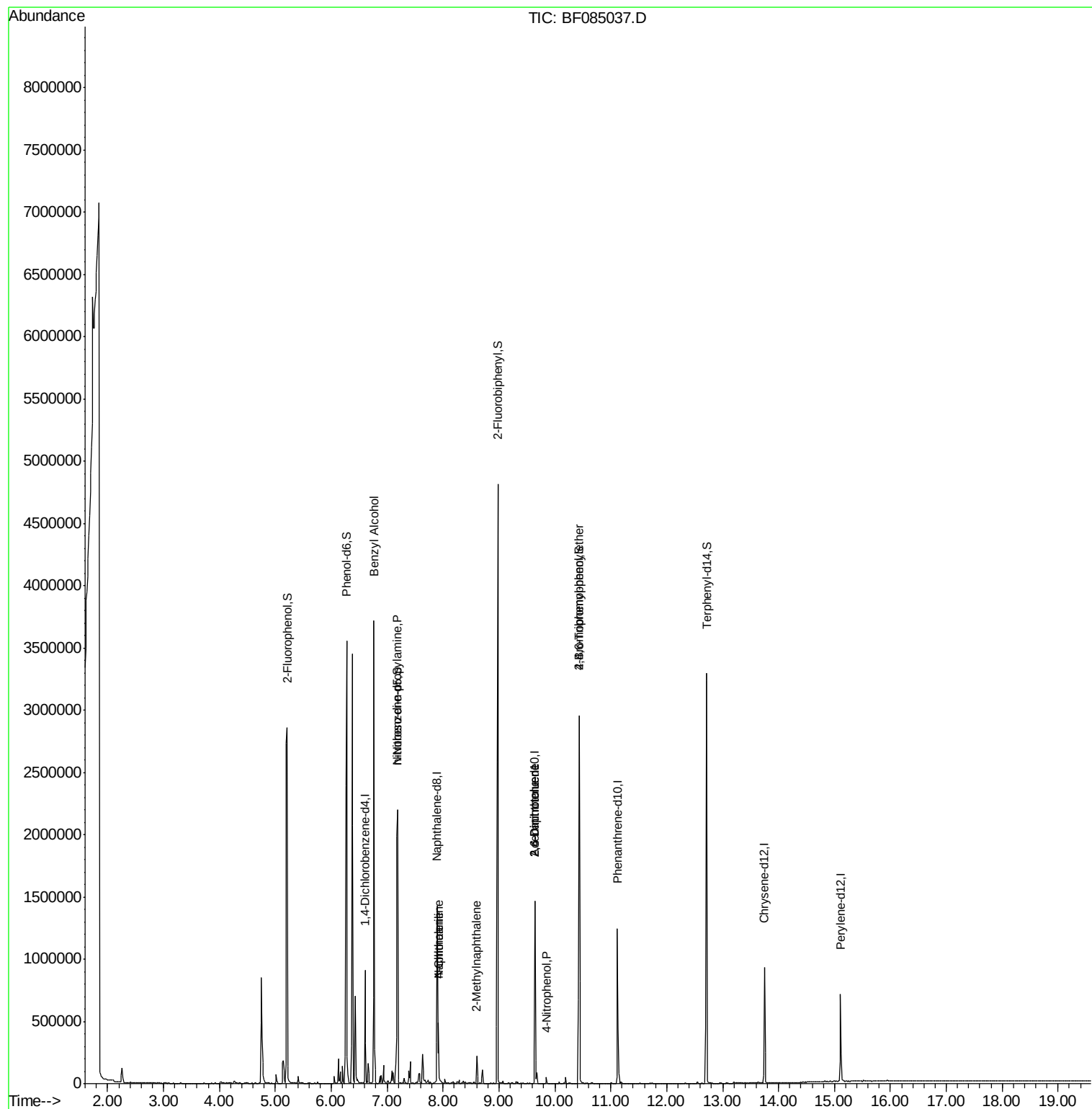
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 15) Benzyl Alcohol             | 6.76  | 79   | 16425    | 2.17  | ng    | # 42   |
| 19) n-Nitroso-di-n-propylamine | 7.19  | 70   | 139772   | 20.38 | ng    | # 78   |
| 31) Naphthalene                | 7.92  | 128  | 206331   | 6.72  | ng    | 99     |
| 33) 4-Chloroaniline            | 7.92  | 127  | 28664    | 2.26  | ng    | # 36   |
| 37) 2-Methylnaphthalene        | 8.60  | 142  | 59382    | 3.09  | ng    | 99     |
| 50) 2,6-Dinitrotoluene         | 9.64  | 165  | 35840    | 7.62  | ng    | # 38   |
| 55) 4-Nitrophenol              | 9.85  | 139  | 7830     | 2.01  | ng    | # 10   |
| 56) 2,4-Dinitrotoluene         | 9.64  | 165  | 35840    | 5.97  | ng    | # 21   |
| 66) 4-Bromophenyl-phenylether  | 10.43 | 248  | 22421    | 4.24  | ng    | # 1    |

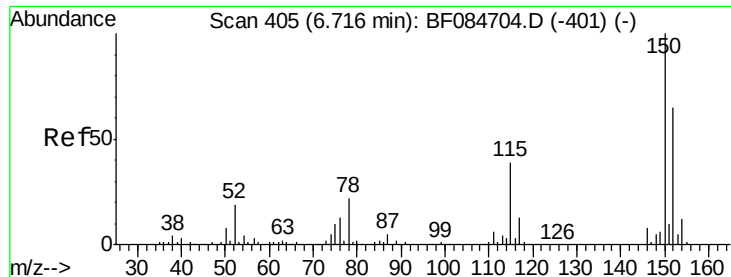
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B004(16-18)

Quant Time: Feb 12 04:18:13 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 10 13:28:51 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.60 min Scan# 439

Delta R.T. -0.02 min

Lab File: BF085037.D

Acq: 12 Feb 2016 3:16

Instrument :

BNA\_F

ClientSampleId :

SUP-B004(16-18)

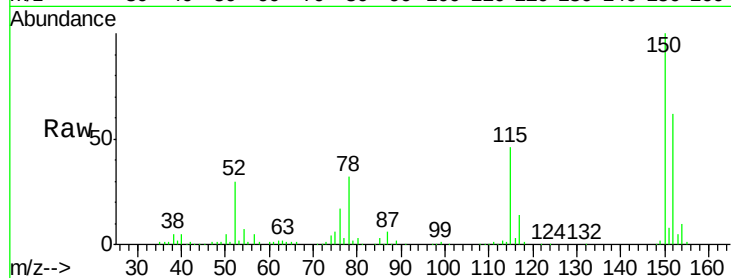
Tgt Ion:152 Resp: 137498

Ion Ratio Lower Upper

152 100

150 160.0 123.0 184.4

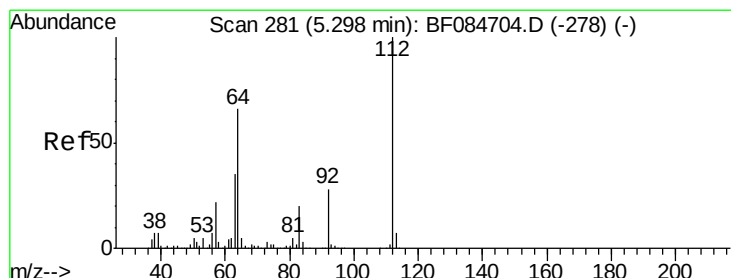
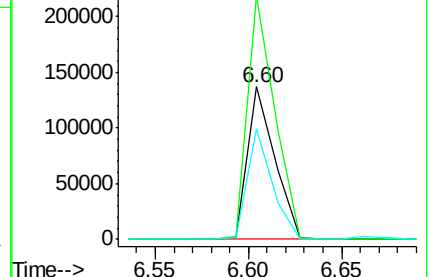
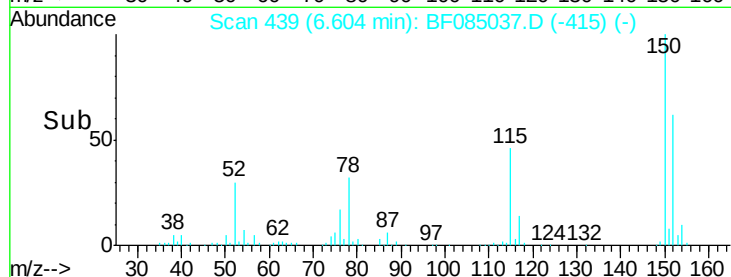
115 72.8 51.4 77.2



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: 135.56 ng

RT: 5.21 min Scan# 317

Delta R.T. 0.01 min

Lab File: BF085037.D

Acq: 12 Feb 2016 3:16

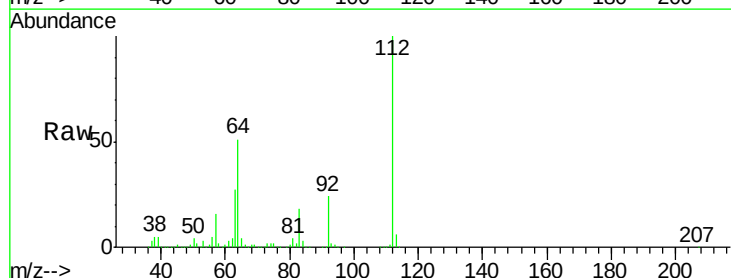
Tgt Ion:112 Resp: 1196639

Ion Ratio Lower Upper

112 100

64 51.4 36.6 55.0

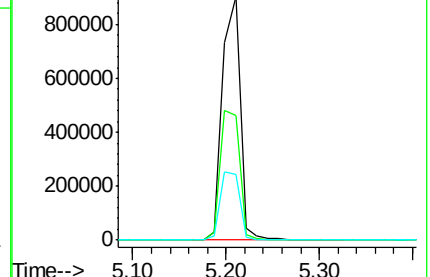
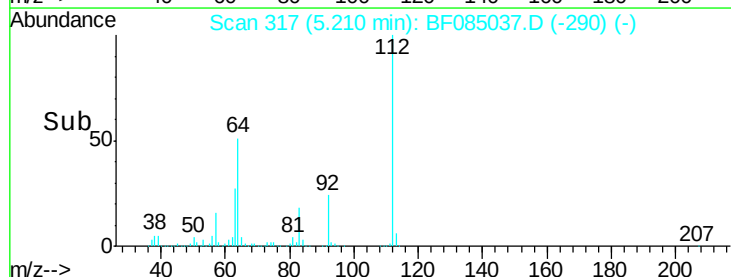
63 26.8 19.4 29.0

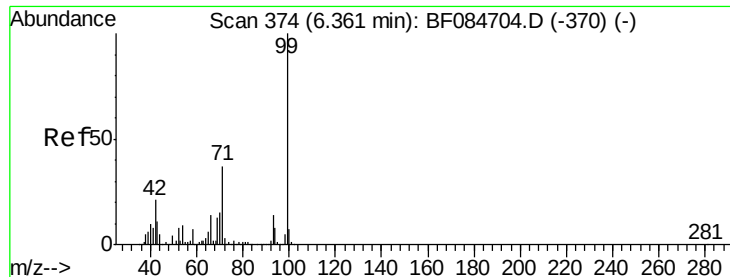


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 139.69 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.01 min

Lab File: BF085037.D

Acq: 12 Feb 2016 3:16

Instrument :

BNA\_F

ClientSampleId :

SUP-B004(16-18)

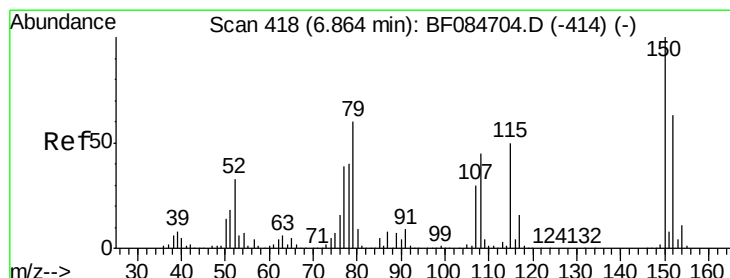
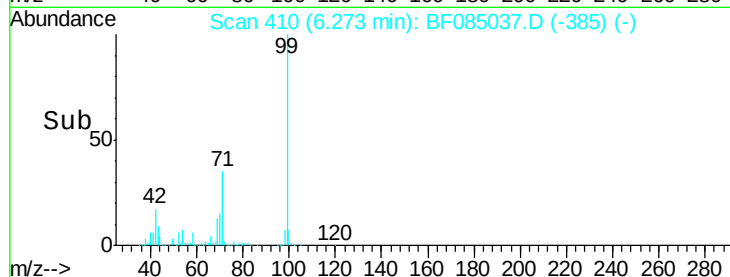
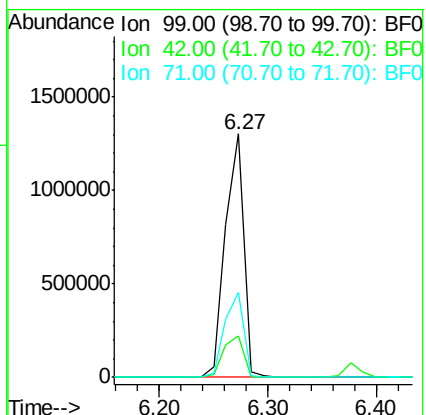
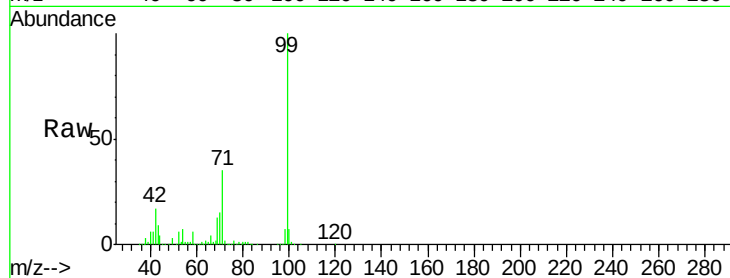
Tgt Ion: 99 Resp: 1528755

Ion Ratio Lower Upper

99 100

42 16.9 12.8 19.2

71 34.7 30.9 46.3



#15

Benzyl Alcohol

Concen: 2.17 ng

RT: 6.76 min Scan# 453

Delta R.T. -0.02 min

Lab File: BF085037.D

Acq: 12 Feb 2016 3:16

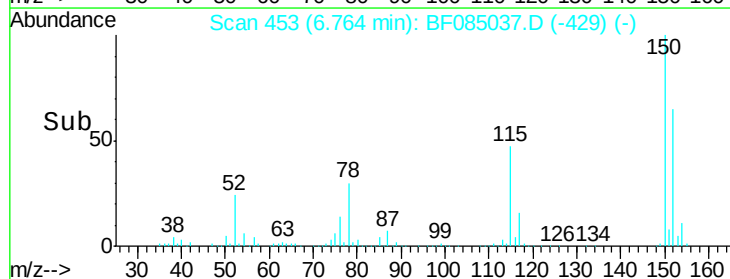
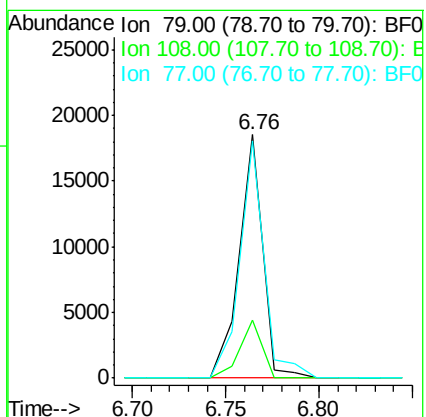
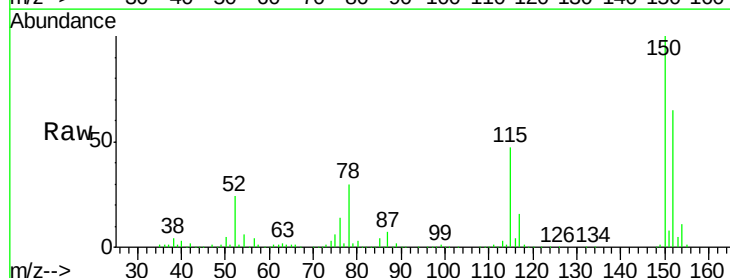
Tgt Ion: 79 Resp: 16425

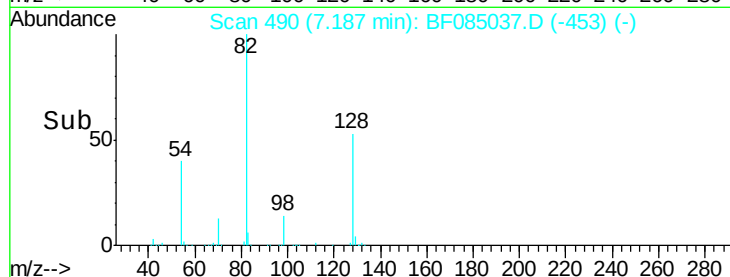
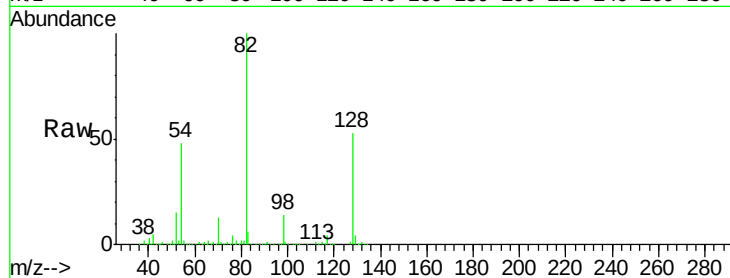
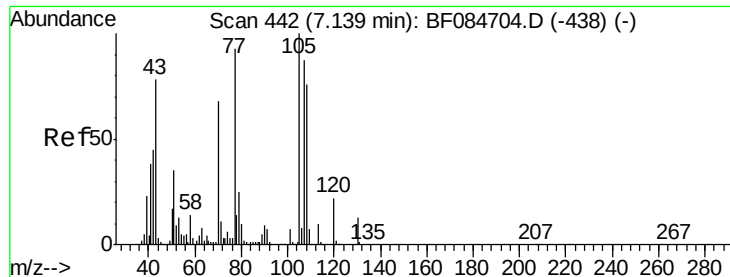
Ion Ratio Lower Upper

79 100

108 24.0 69.0 103.4#

77 97.5 50.0 75.0#

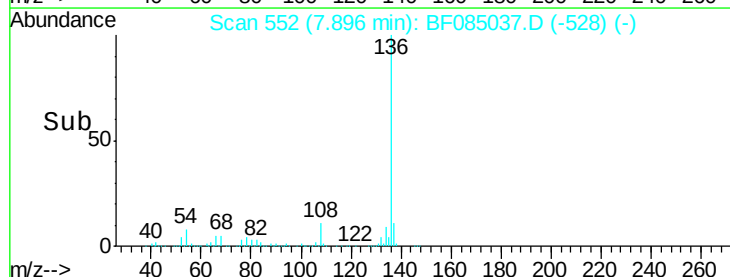
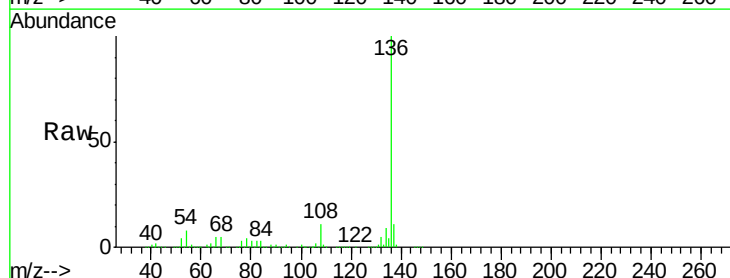
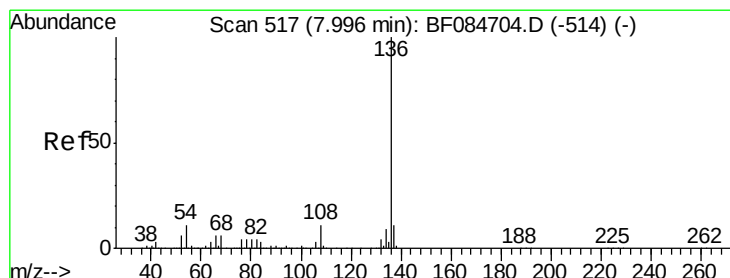
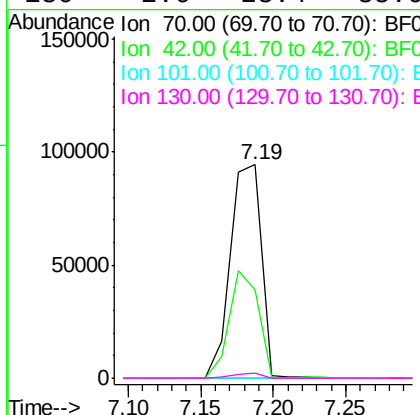




#19  
n-Nitroso-di-n-propylamine  
Concen: 20.38 ng  
RT: 7.19 min Scan# 490  
Delta R.T. 0.13 min  
Lab File: BF085037.D  
Acq: 12 Feb 2016 3:16

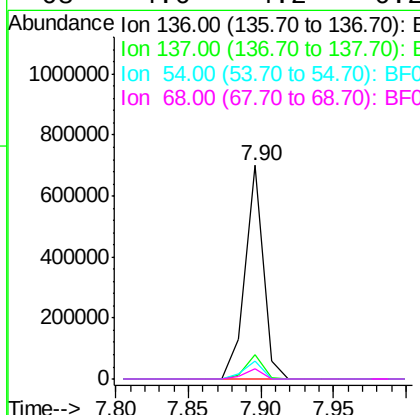
Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B004(16-18)

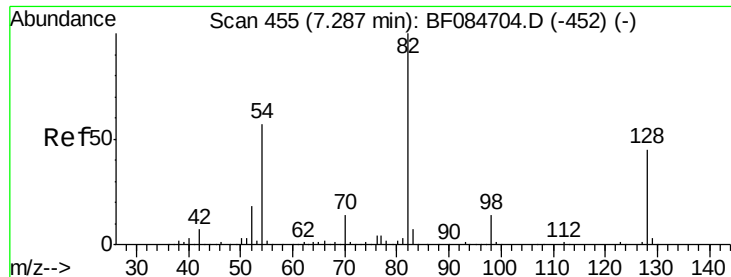
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 139772 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 41.2  | 33.3  | 49.9   |
| 101      | 0.0   | 9.3   | 13.9#  |
| 130      | 2.6   | 23.4  | 35.0#  |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.90 min Scan# 552  
Delta R.T. -0.02 min  
Lab File: BF085037.D  
Acq: 12 Feb 2016 3:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 612553 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.7   | 13.1   |
| 54       | 8.1   | 5.8   | 8.8    |
| 68       | 4.6   | 4.2   | 6.2    |

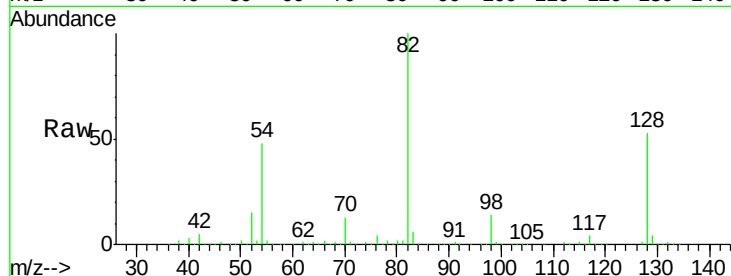




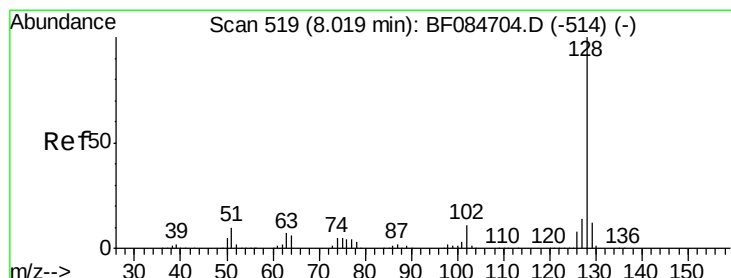
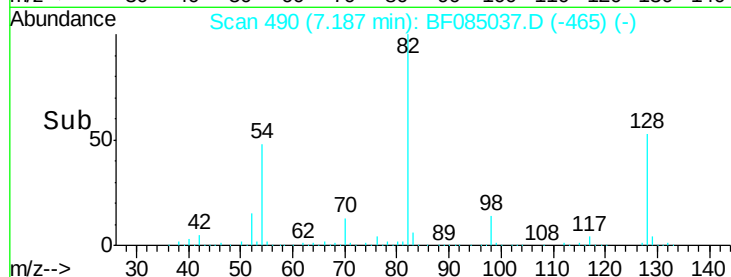
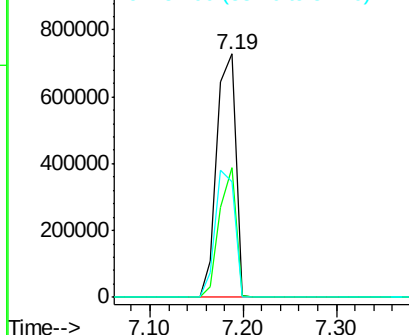
#23  
 Nitrobenzene-d5  
 Concen: 94.32 ng  
 RT: 7.19 min Scan# 490  
 Delta R.T. -0.01 min  
 Lab File: BF085037.D  
 Acq: 12 Feb 2016 3:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-B004(16-18)

Tgt Ion: 82 Resp: 1025614  
 Ion Ratio Lower Upper  
 82 100  
 128 53.1 34.6 51.8#  
 54 47.7 38.4 57.6

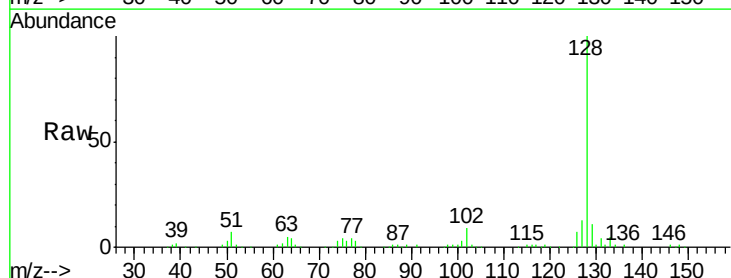


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

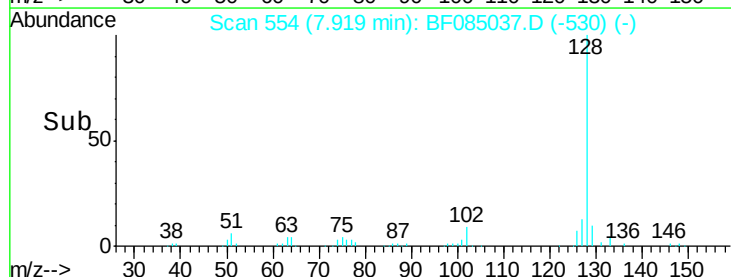
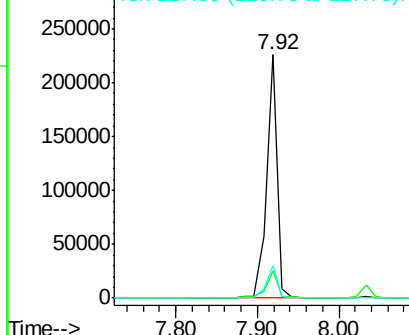


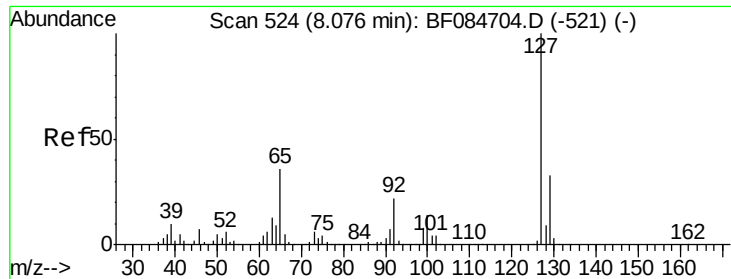
#31  
 Naphthalene  
 Concen: 6.72 ng  
 RT: 7.92 min Scan# 554  
 Delta R.T. -0.02 min  
 Lab File: BF085037.D  
 Acq: 12 Feb 2016 3:16

Tgt Ion: 128 Resp: 206331  
 Ion Ratio Lower Upper  
 128 100  
 129 11.0 9.1 13.7  
 127 13.3 11.1 16.7



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

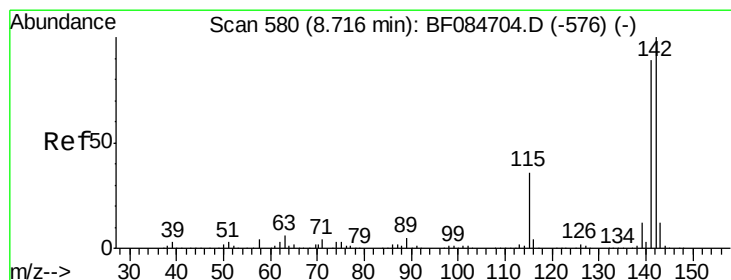
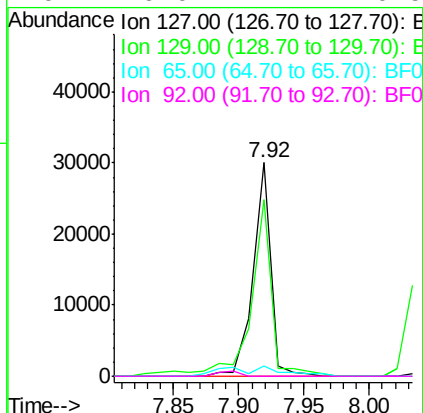
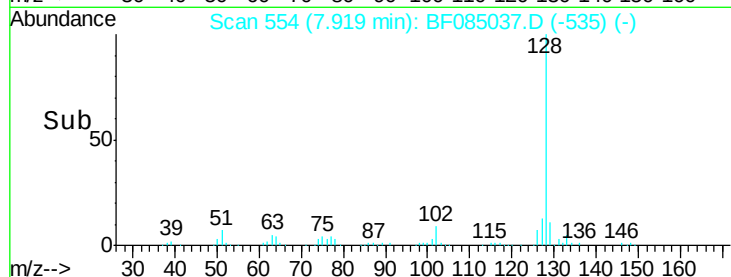
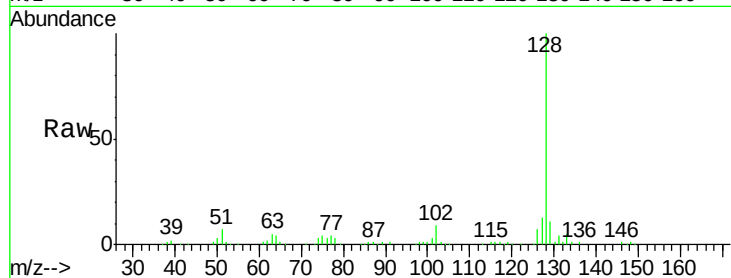




#33  
4-Chloroaniline  
Concen: 2.26 ng  
RT: 7.92 min Scan# 554  
Delta R.T. -0.08 min  
Lab File: BF085037.D  
Acq: 12 Feb 2016 3:16

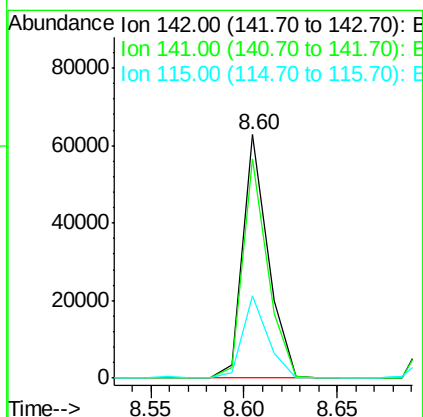
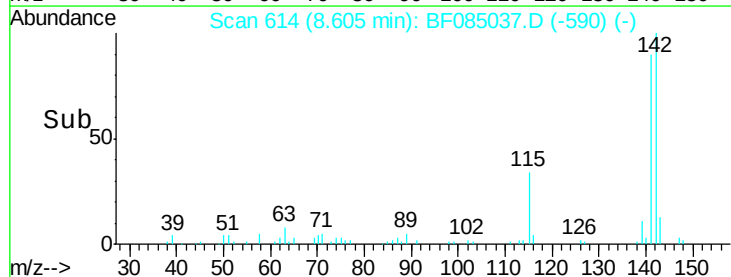
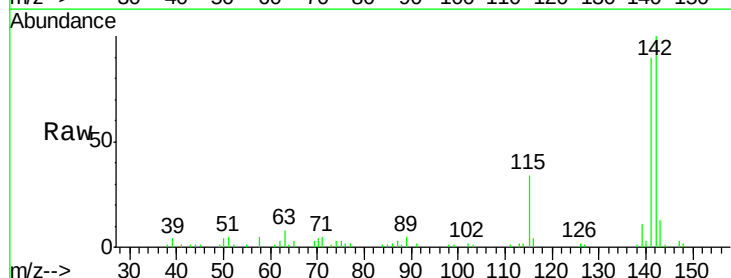
Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B004(16-18)

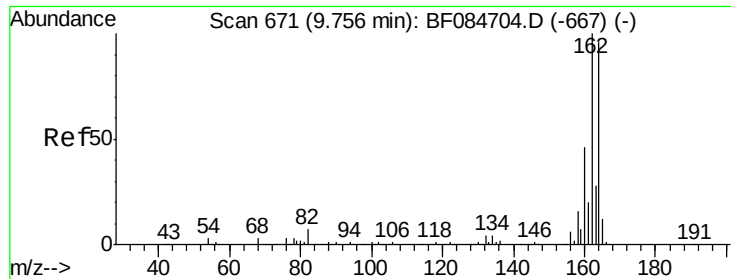
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 28664 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 82.7  | 26.5  | 39.7# |
| 65       | 4.6   | 27.2  | 40.8# |
| 92       | 0.0   | 17.7  | 26.5# |



#37  
2-Methylnaphthalene  
Concen: 3.09 ng  
RT: 8.60 min Scan# 614  
Delta R.T. -0.02 min  
Lab File: BF085037.D  
Acq: 12 Feb 2016 3:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 59382 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 89.8  | 72.4  | 108.6 |
| 115      | 33.8  | 27.9  | 41.9  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.64 min Scan# 705

Delta R.T. -0.02 min

Lab File: BF085037.D

Acq: 12 Feb 2016 3:16

Instrument :

BNA\_F

ClientSampleId :

SUP-B004(16-18)

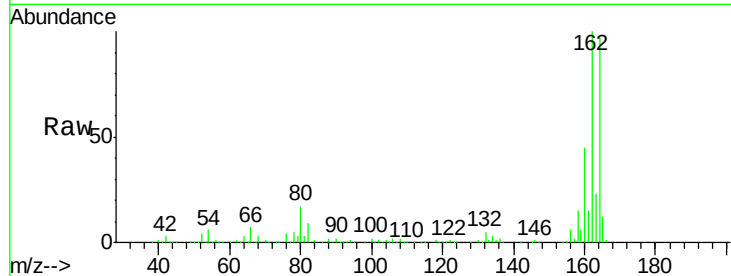
Tgt Ion:164 Resp: 282824

Ion Ratio Lower Upper

164 100

162 102.6 85.1 127.7

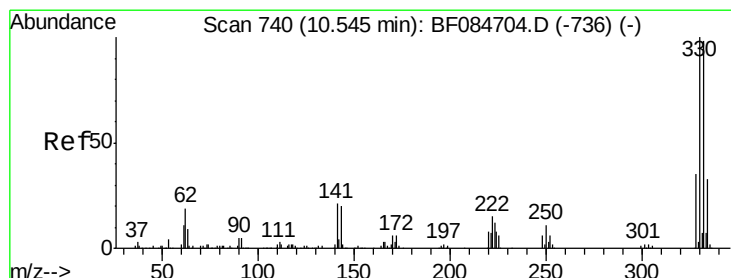
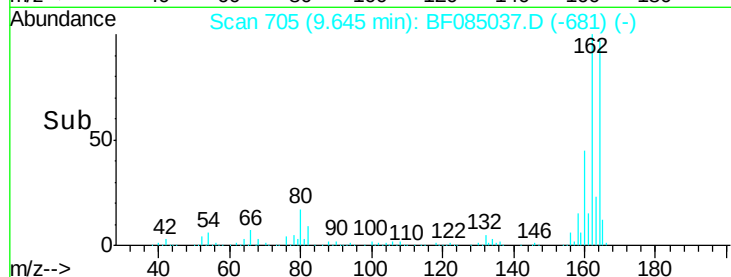
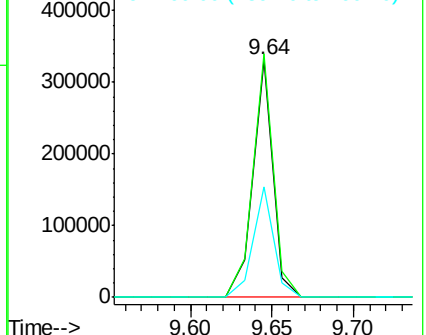
160 46.4 37.5 56.3



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: 131.82 ng

RT: 10.43 min Scan# 774

Delta R.T. -0.02 min

Lab File: BF085037.D

Acq: 12 Feb 2016 3:16

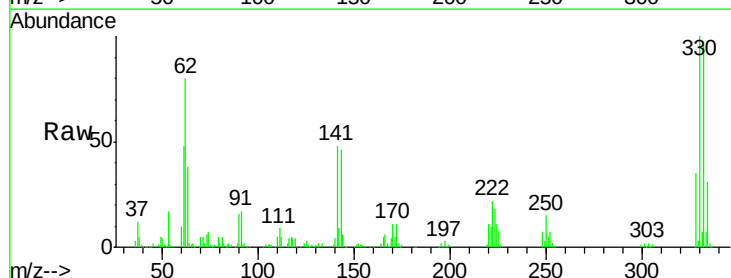
Tgt Ion:330 Resp: 388887

Ion Ratio Lower Upper

330 100

332 98.4 76.6 114.8

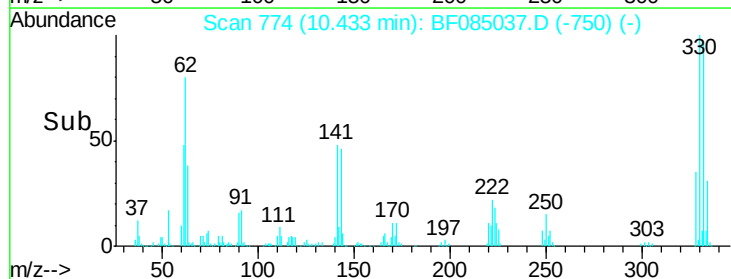
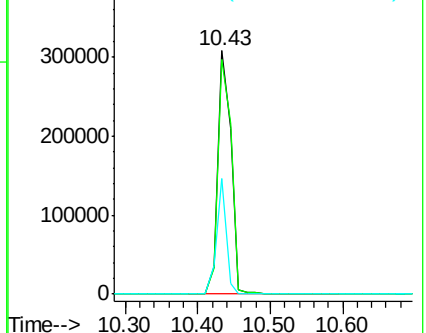
141 35.3 27.8 41.6



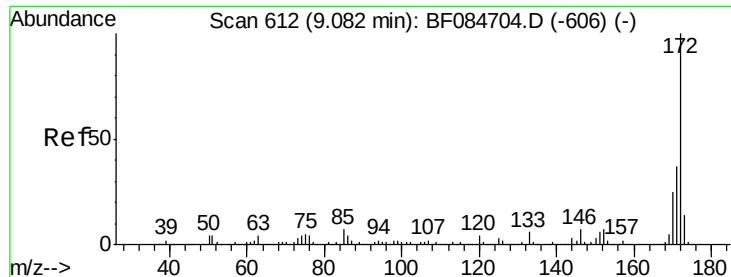
Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



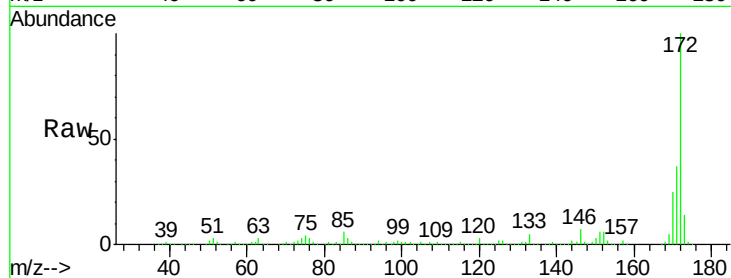




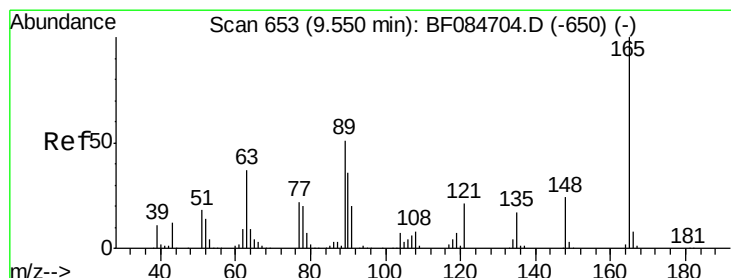
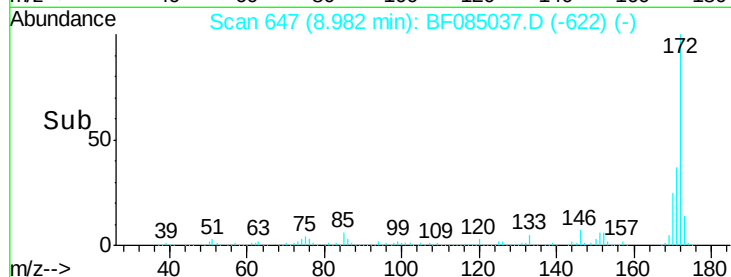
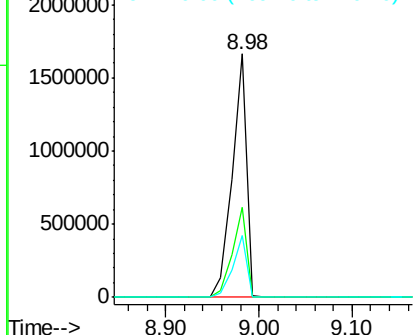
#44  
 2-Fluorobiphenyl  
 Concen: 130.84 ng  
 RT: 8.98 min Scan# 647  
 Delta R.T. -0.01 min  
 Lab File: BF085037.D  
 Acq: 12 Feb 2016 3:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-B004(16-18)

Tgt Ion:172 Resp: 1803505  
 Ion Ratio Lower Upper  
 172 100  
 171 36.9 28.9 43.3  
 170 25.3 18.6 27.8

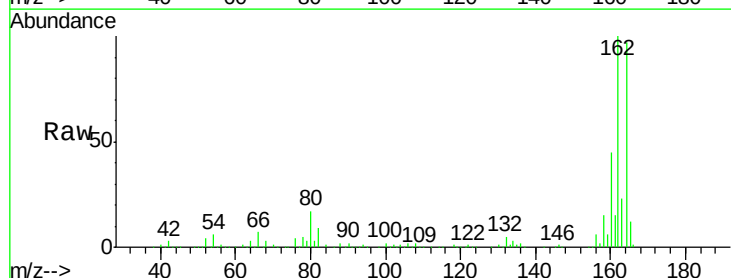


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

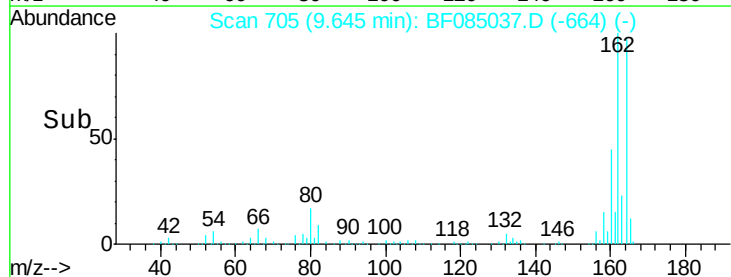
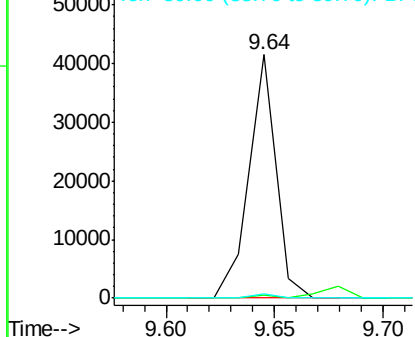


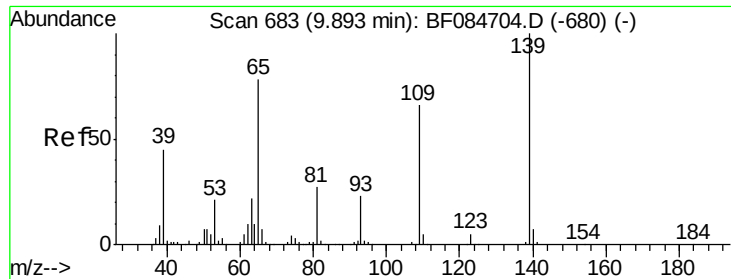
#50  
 2,6-Dinitrotoluene  
 Concen: 7.62 ng  
 RT: 9.64 min Scan# 705  
 Delta R.T. 0.17 min  
 Lab File: BF085037.D  
 Acq: 12 Feb 2016 3:16

Tgt Ion:165 Resp: 35840  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 28.8 43.2#  
 89 1.7 35.1 52.7#



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





#55

4-Nitrophenol

Concen: 2.01 ng

RT: 9.85 min Scan# 723

Delta R.T. 0.03 min

Lab File: BF085037.D

Acq: 12 Feb 2016 3:16

Instrument :

BNA\_F

ClientSampleId :

SUP-B004(16-18)

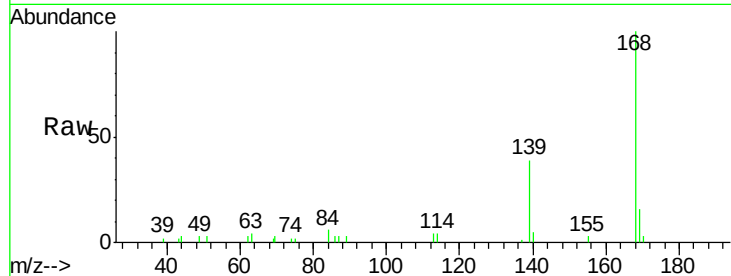
Tgt Ion:139 Resp: 7830

Ion Ratio Lower Upper

139 100

109 0.0 58.5 98.5#

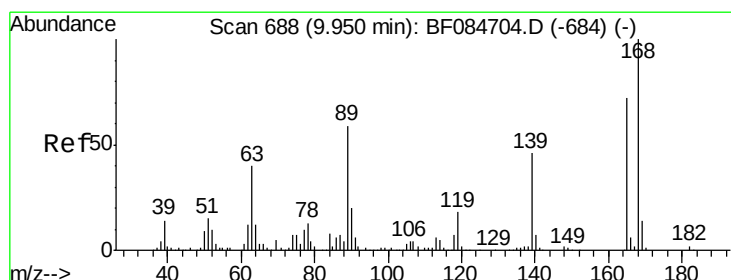
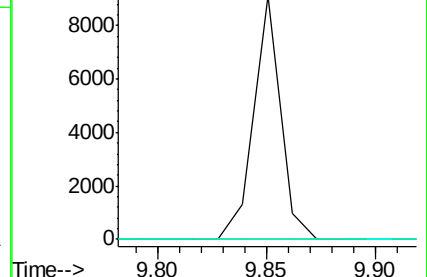
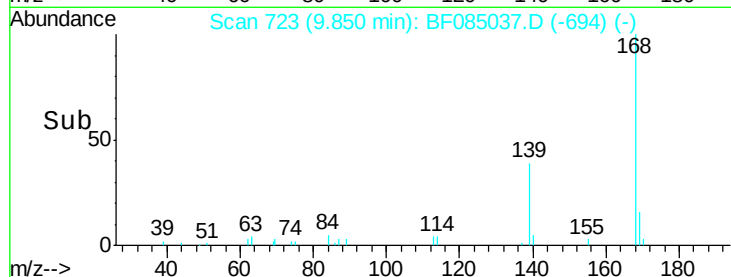
65 0.0 57.6 97.6#



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: 5.97 ng

RT: 9.64 min Scan# 705

Delta R.T. -0.23 min

Lab File: BF085037.D

Acq: 12 Feb 2016 3:16

Tgt Ion:165 Resp: 35840

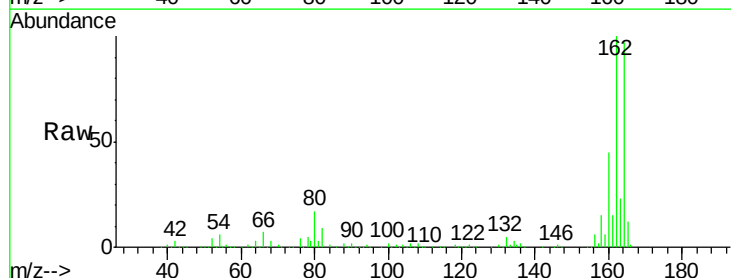
Ion Ratio Lower Upper

165 100

63 1.4 36.7 55.1#

89 1.7 61.9 92.9#

182 0.0 2.0 3.0#

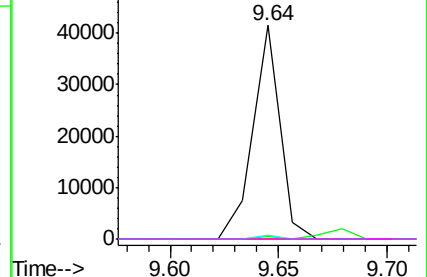
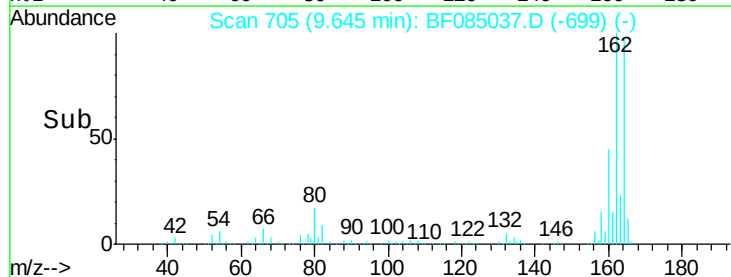


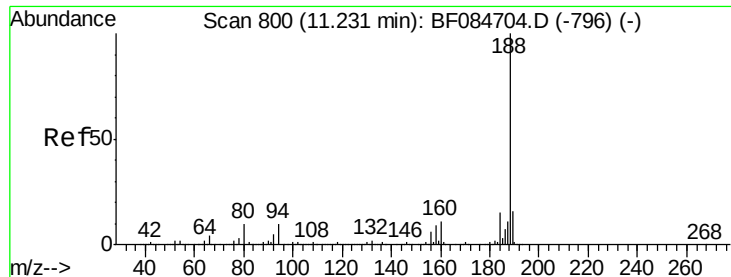
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

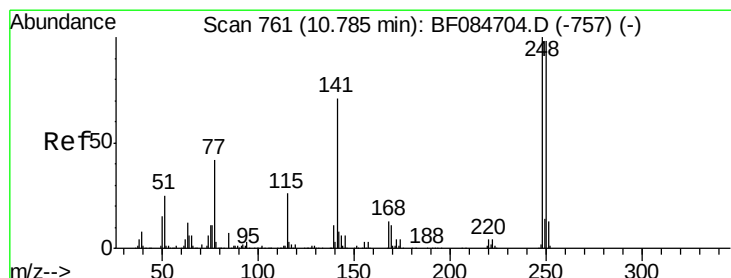
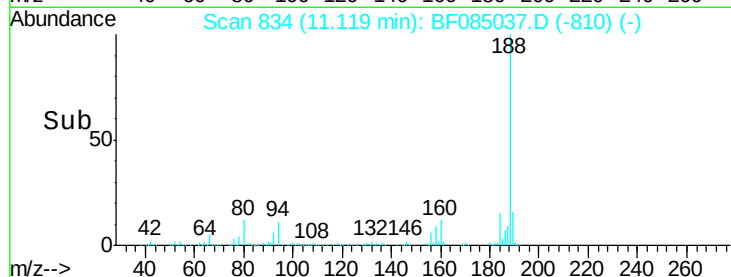
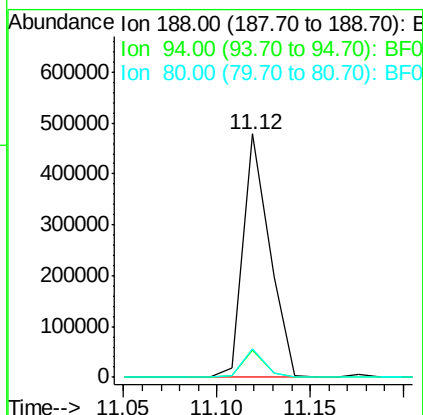
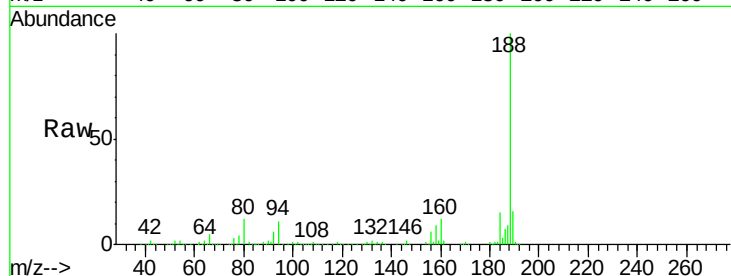




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.12 min Scan# 834  
Delta R.T. -0.02 min  
Lab File: BF085037.D  
Acq: 12 Feb 2016 3:16

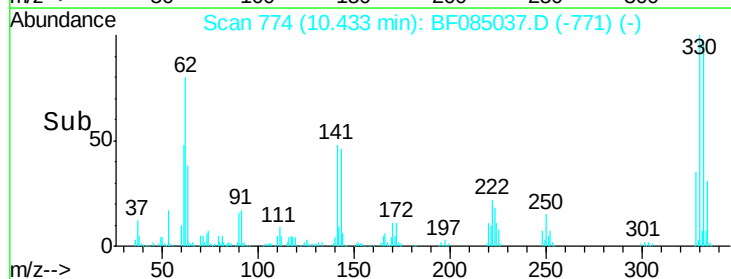
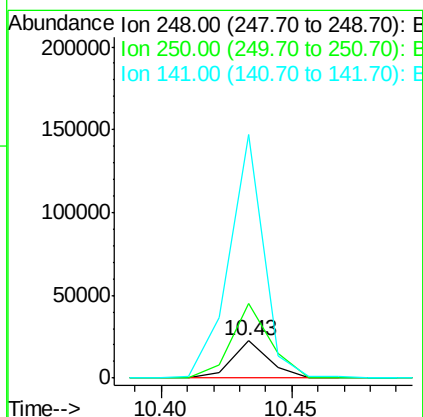
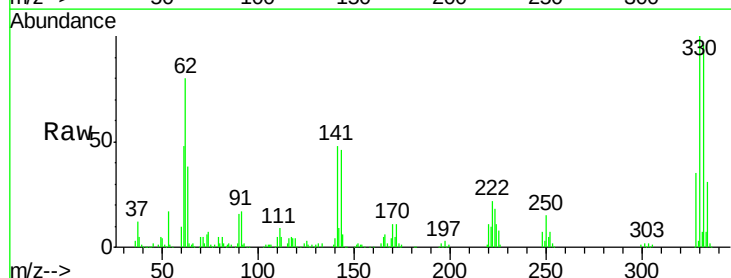
Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B004(16-18)

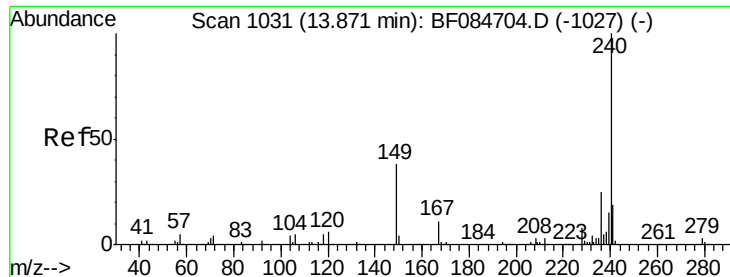
Tgt Ion:188 Resp: 478727  
Ion Ratio Lower Upper  
188 100  
94 11.5 9.0 13.4  
80 11.8 9.6 14.4



#66  
4-Bromophenyl-phenylether  
Concen: 4.24 ng  
RT: 10.43 min Scan# 774  
Delta R.T. -0.26 min  
Lab File: BF085037.D  
Acq: 12 Feb 2016 3:16

Tgt Ion:248 Resp: 22421  
Ion Ratio Lower Upper  
248 100  
250 198.1 78.4 117.6#  
141 649.3 44.0 66.0#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.75 min Scan# 1064

Delta R.T. -0.02 min

Lab File: BF085037.D

Acq: 12 Feb 2016 3:16

Instrument :

BNA\_F

ClientSampleId :

SUP-B004(16-18)

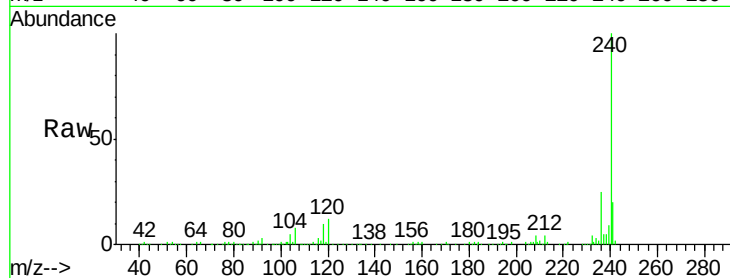
Tgt Ion:240 Resp: 329534

Ion Ratio Lower Upper

240 100

120 12.1 9.5 14.3

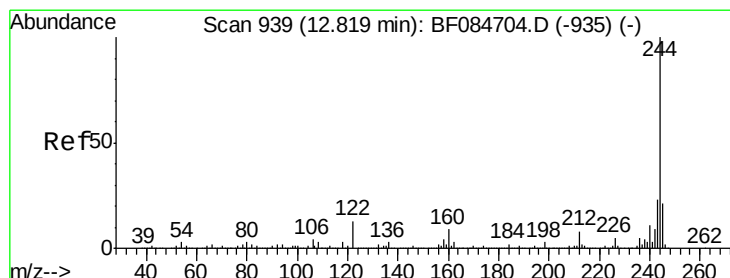
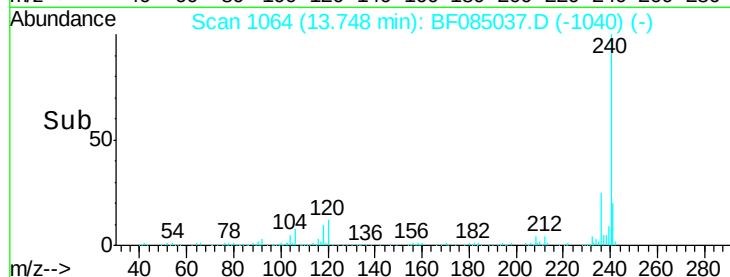
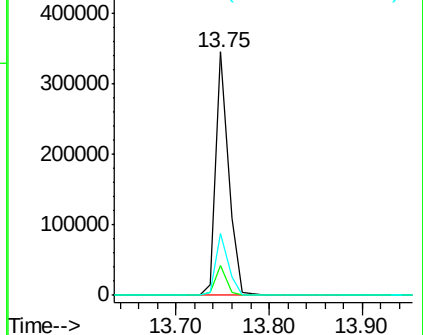
236 25.3 20.6 31.0



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: 112.53 ng

RT: 12.72 min Scan# 974

Delta R.T. -0.01 min

Lab File: BF085037.D

Acq: 12 Feb 2016 3:16

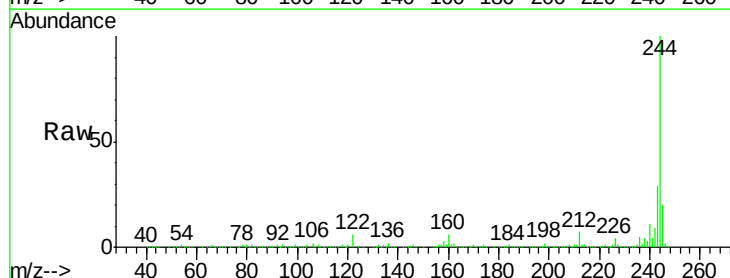
Tgt Ion:244 Resp: 1636499

Ion Ratio Lower Upper

244 100

212 6.6 5.7 8.5

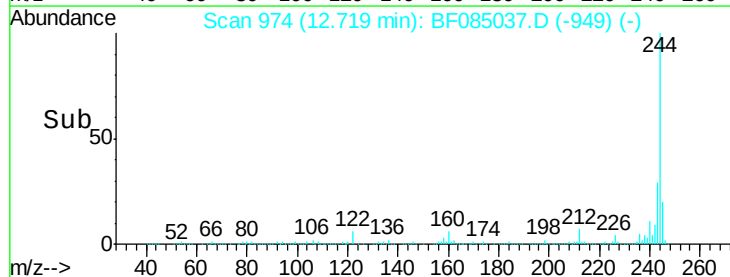
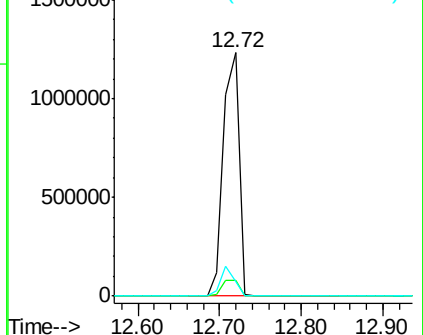
122 6.2 7.4 11.0#

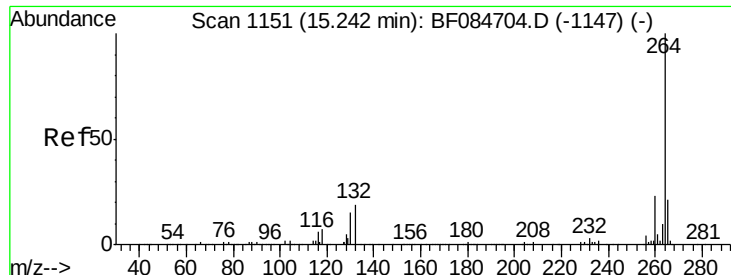


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.11 min Scan# 1183  
Delta R.T. -0.02 min  
Lab File: BF085037.D  
Acq: 12 Feb 2016 3:16

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B004(16-18)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 19.4  | 29.2  |
| 265     | 22.2  | 17.8  | 26.6  |

