

Data Path : Z:\HPCHEM1\BNA F\DATA\BF090716\  
 Data File : BF090000.D  
 Acq On : 7 Sep 2016 12:59  
 Operator : UM/SJ  
 Sample : H4676-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

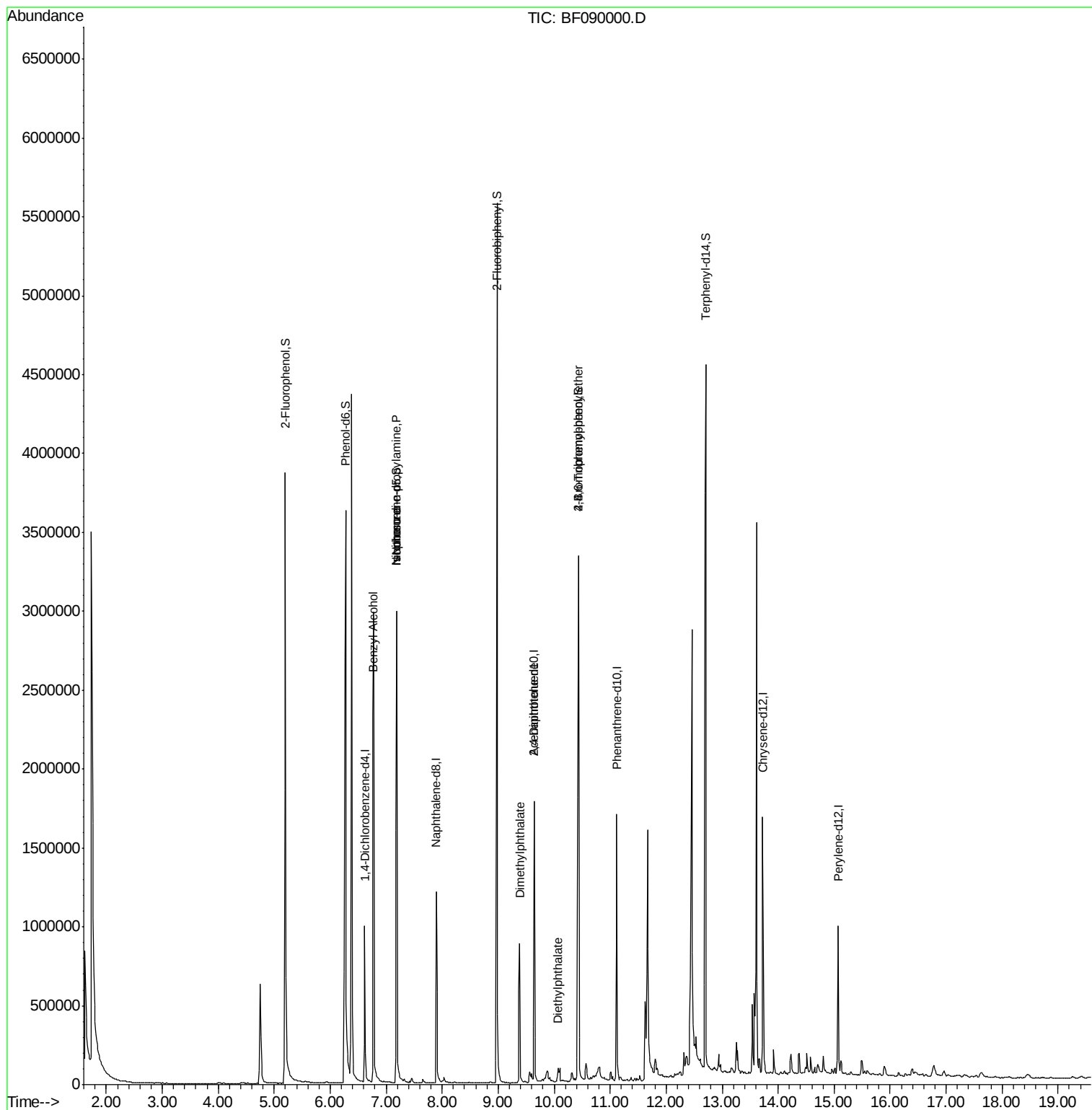
Quant Time: Sep 07 14:58:21 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF083116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 02 13:29:08 2016  
 Response via : Initial Calibration

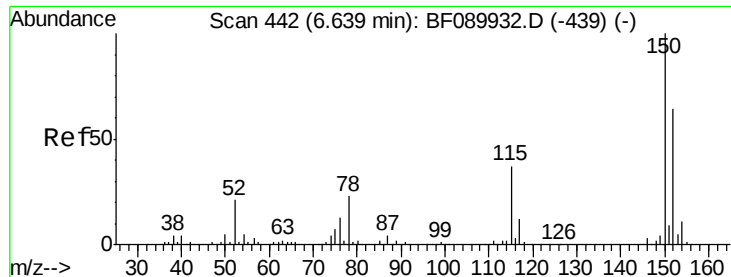
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.62  | 152  | 182176   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.90  | 136  | 708171   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10           | 9.64  | 164  | 380748   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.12 | 188  | 766468   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.73 | 240  | 628582   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 15.07 | 264  | 499709   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.20  | 112  | 1494474  | 131.31 | ng    | -0.01    |
| 7) Phenol-d6                   | 6.27  | 99   | 2090367  | 151.15 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.19  | 82   | 1210842  | 99.16  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.43 | 330  | 480971   | 128.04 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 8.98  | 172  | 1950301  | 84.08  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.71 | 244  | 2113743  | 83.07  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 6.76  | 79   | 19036    | 2.20   | ng    | # 51     |
| 19) n-Nitroso-di-n-propylamine | 7.19  | 70   | 165605   | 18.38  | ng    | # 79     |
| 25) Isophorone                 | 7.19  | 82   | 1171655  | 47.19  | ng    | # 65     |
| 49) Dimethylphthalate          | 9.38  | 163  | 537343   | 19.53  | ng    | 98       |
| 56) 2,4-Dinitrotoluene         | 9.64  | 165  | 48489    | 6.25   | ng    | # 29     |
| 59) Diethylphthalate           | 10.07 | 149  | 60638    | 2.34   | ng    | 97       |
| 66) 4-Bromophenyl-phenylether  | 10.43 | 248  | 34086    | 4.42   | ng    | # 1      |

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

```
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Misc      :  
ALS Vial  : 3 Sample Multiplier: 1
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Quant Time: Sep 07 14:58:21 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF083116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 02 13:29:08 2016  
Response via : Initial Calibration



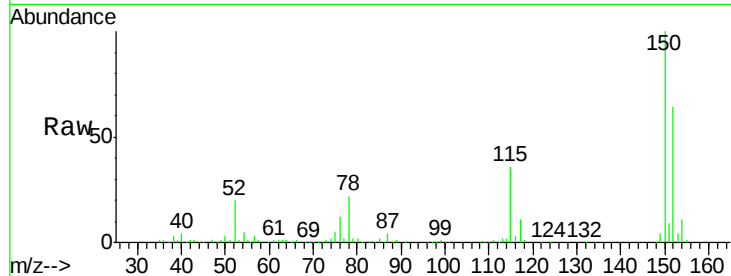


#1

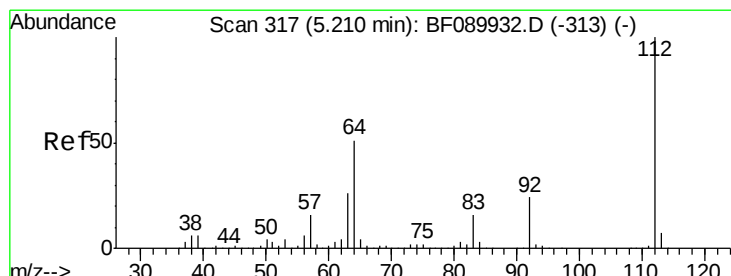
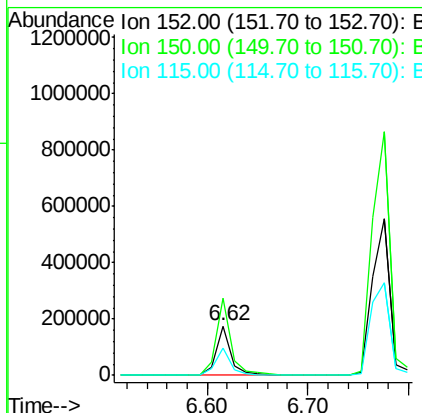
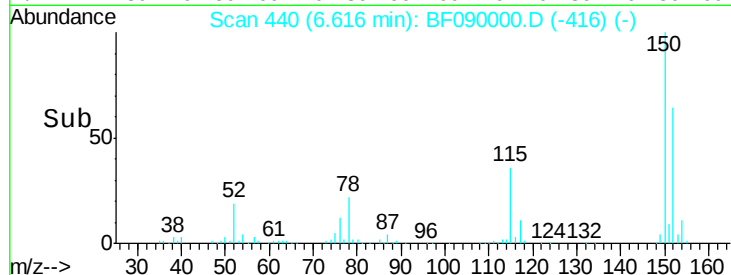
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.62 min Scan# 440  
Delta R.T. -0.02 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.7 | 127.4 | 191.2 |
| 115     | 56.1  | 46.3  | 69.5  |



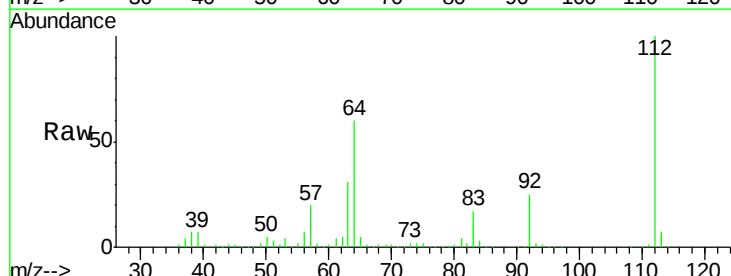
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



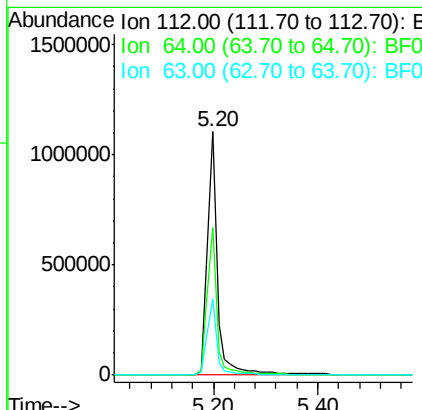
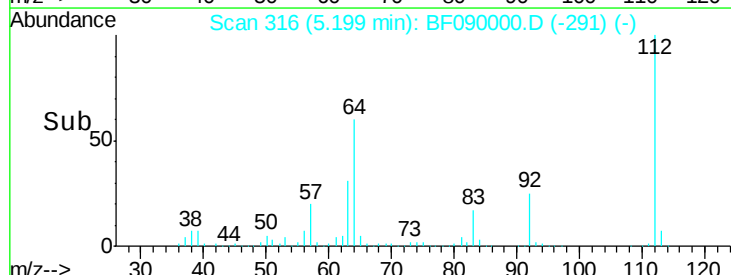
#5

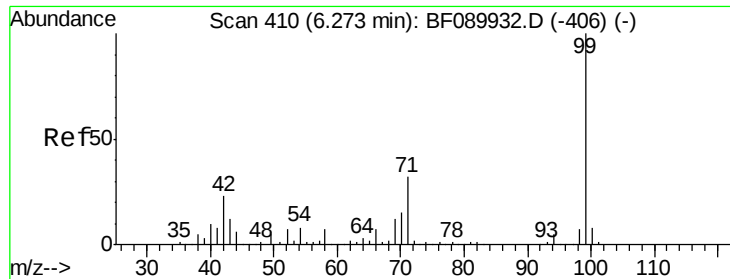
2-Fluorophenol  
Concen: 131.31 ng  
RT: 5.20 min Scan# 316  
Delta R.T. -0.01 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.4  | 41.1  | 61.7  |
| 63      | 31.0  | 21.2  | 31.8  |



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: 151.15 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.01 min

Lab File: BF090000.D

Acq: 7 Sep 2016 12:59

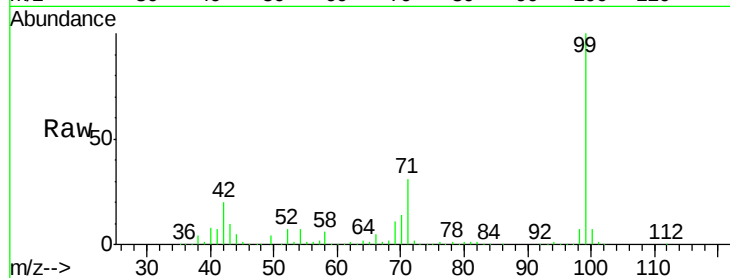
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 2090367

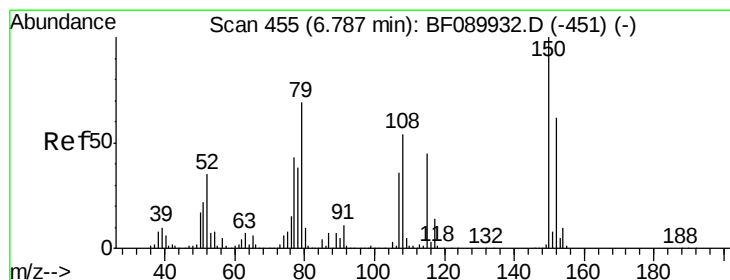
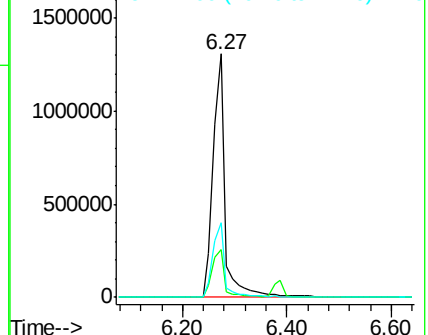
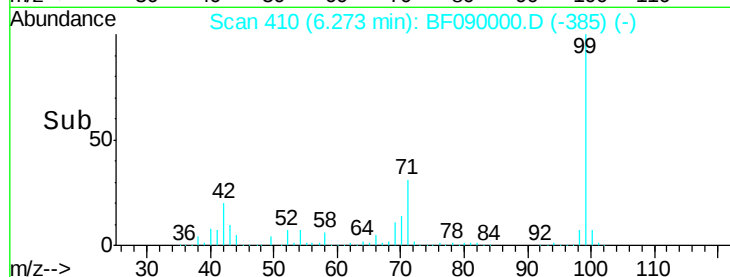
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.6  | 18.6  | 27.8  |
| 71  | 30.7  | 25.8  | 38.6  |



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: 2.20 ng

RT: 6.76 min Scan# 453

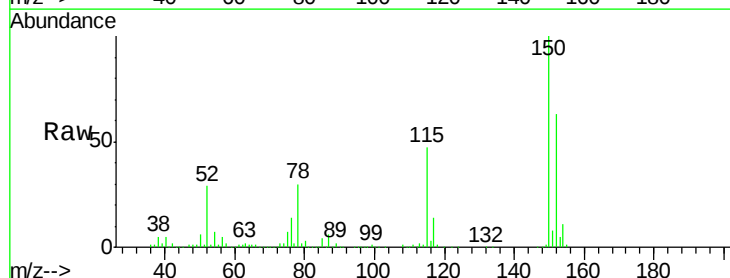
Delta R.T. -0.02 min

Lab File: BF090000.D

Acq: 7 Sep 2016 12:59

Tgt Ion: 79 Resp: 19036

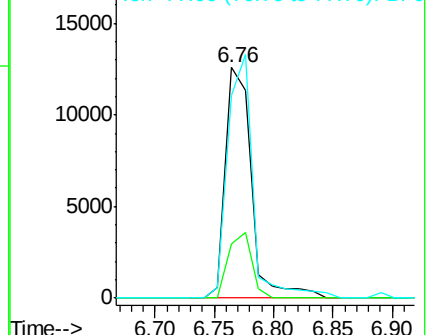
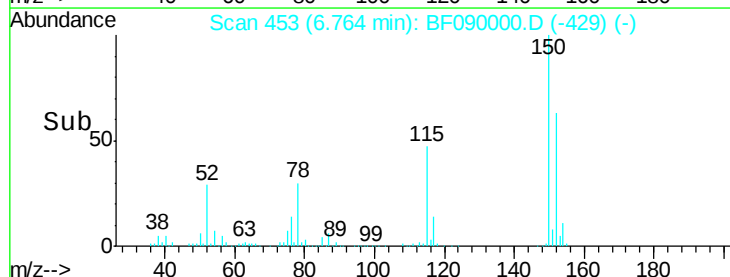
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 79  | 100   |       |       |
| 108 | 23.3  | 62.1  | 93.1# |
| 77  | 88.0  | 50.1  | 75.1# |

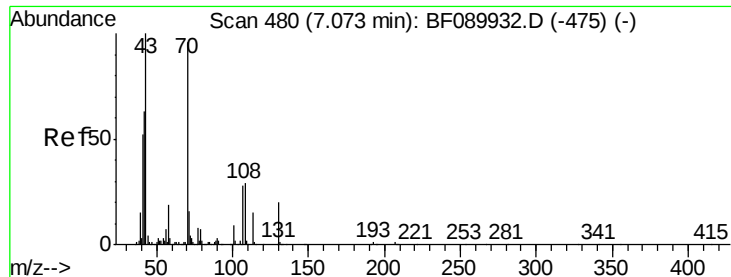


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

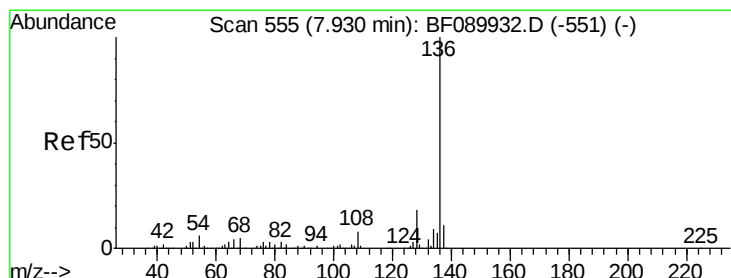
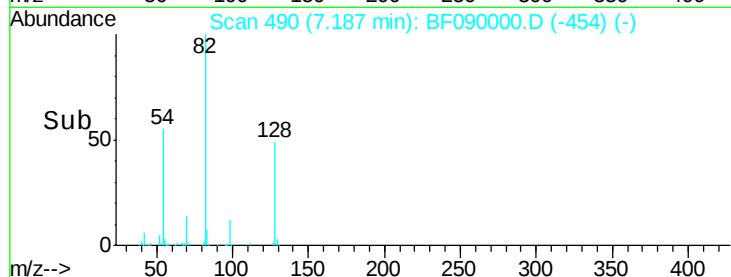
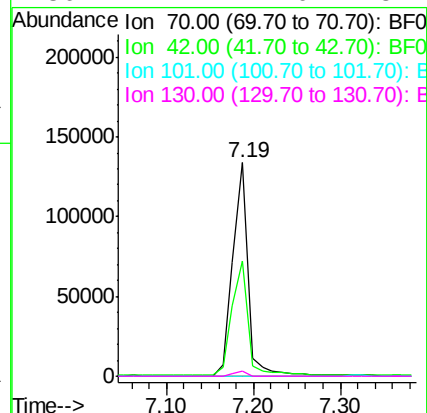
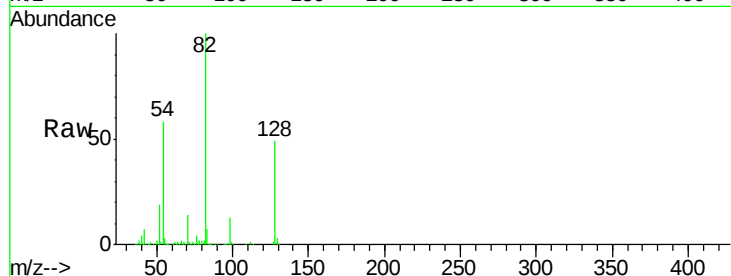




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.38 ng  
RT: 7.19 min Scan# 490  
Delta R.T. 0.11 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

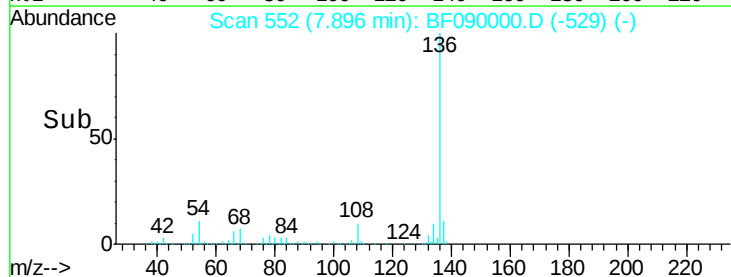
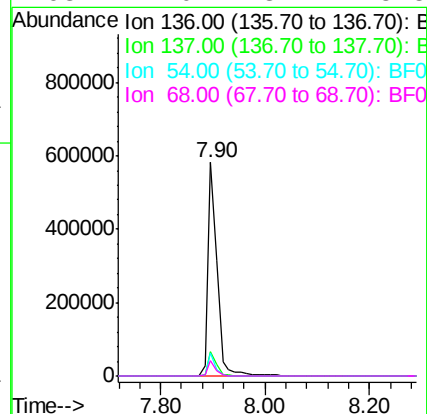
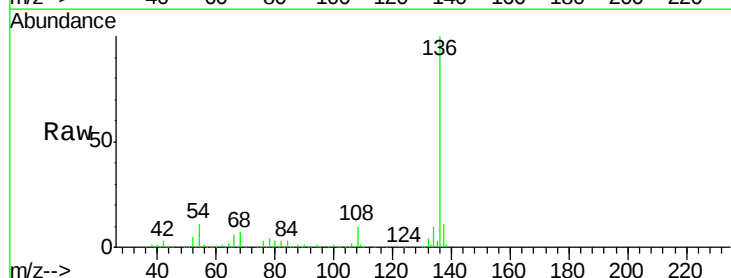
Instrument :  
BNA\_F  
ClientSampleId :

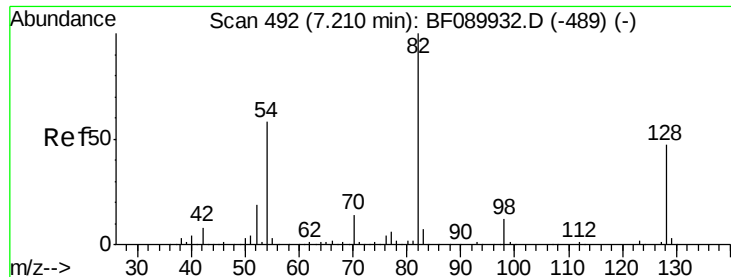
Tot Ion: 70 Resp: 165605  
Ion Ratio Lower Upper  
70 100  
42 54.1 52.1 78.1  
101 0.0 7.4 11.2#  
130 2.2 17.0 25.4#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.90 min Scan# 552  
Delta R.T. -0.03 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

Tgt Ion: 136 Resp: 708171  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.3 12.5  
54 10.7 4.8 7.2#  
68 7.0 3.7 5.5#

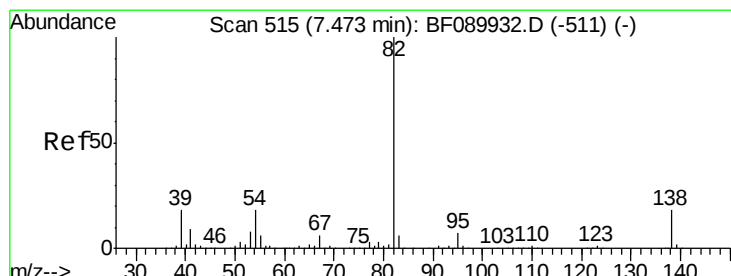
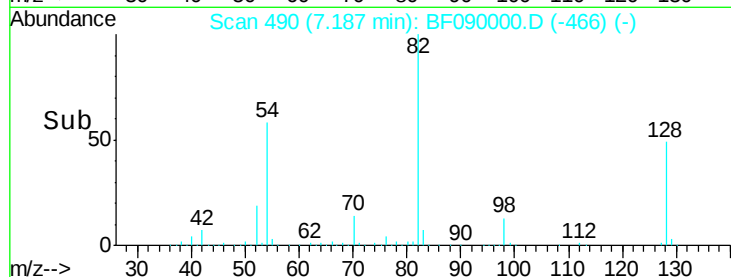
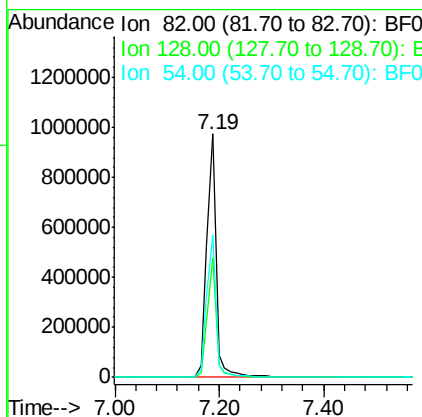
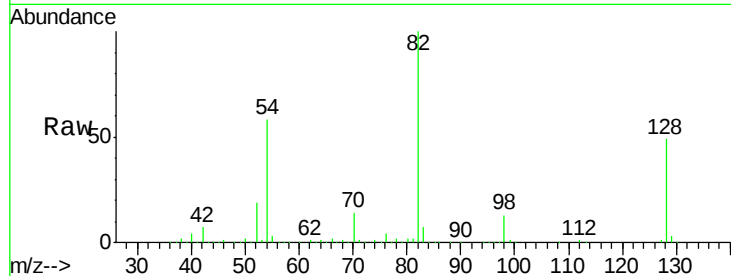




#23  
 Nitrobenzene-d5  
 Concen: 99.16 ng  
 RT: 7.19 min Scan# 490  
 Delta R.T. -0.02 min  
 Lab File: BF090000.D  
 Acq: 7 Sep 2016 12:59

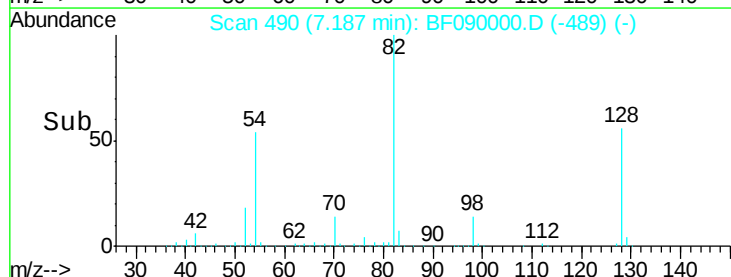
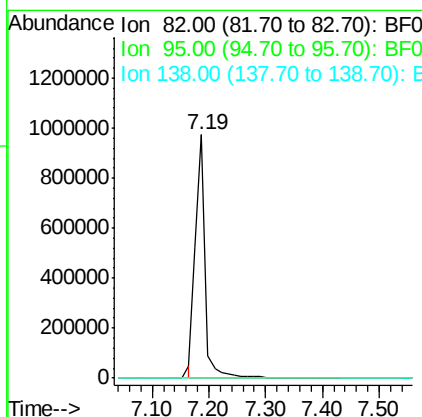
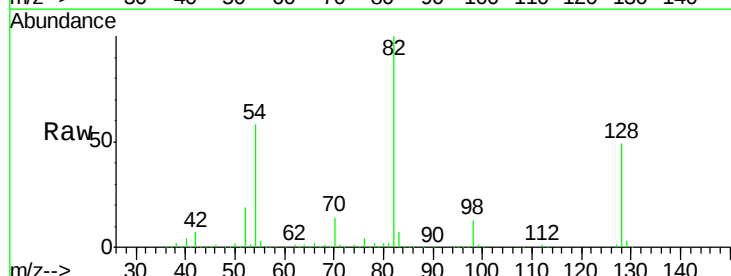
Instrument :  
 BNA\_F  
 ClientSampled :

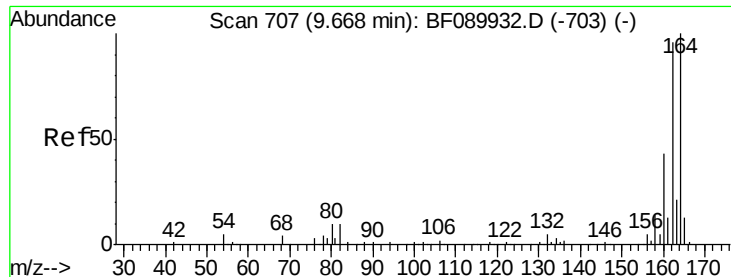
Tot Ion: 82 Resp: 1210842  
 Ion Ratio Lower Upper  
 82 100  
 128 48.9 37.8 56.8  
 54 58.4 46.9 70.3



#25  
 Isophorone  
 Concen: 47.19 ng  
 RT: 7.19 min Scan# 490  
 Delta R.T. -0.29 min  
 Lab File: BF090000.D  
 Acq: 7 Sep 2016 12:59

Tgt Ion: 82 Resp: 1171655  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.5 8.3#  
 138 0.0 14.4 21.6#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.64 min Scan# 705

Delta R.T. -0.02 min

Lab File: BF090000.D

Acq: 7 Sep 2016 12:59

Instrument :

BNA\_F

ClientSampleId :

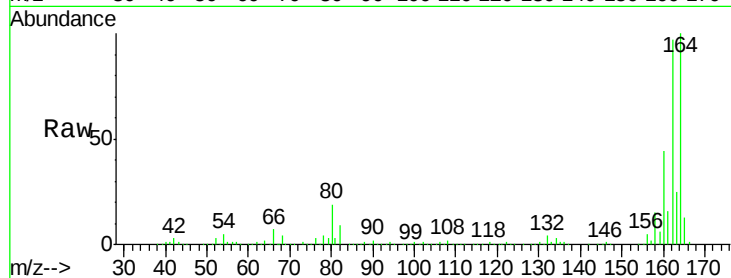
Tot Ion:164 Resp: 380748

Ion Ratio Lower Upper

164 100

162 97.4 77.1 115.7

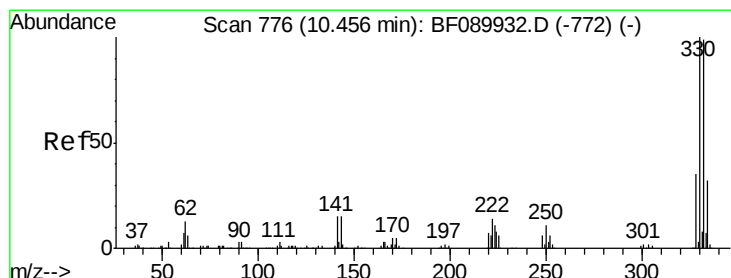
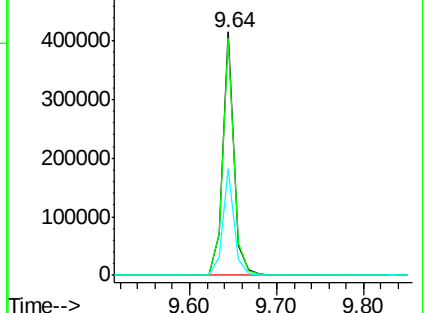
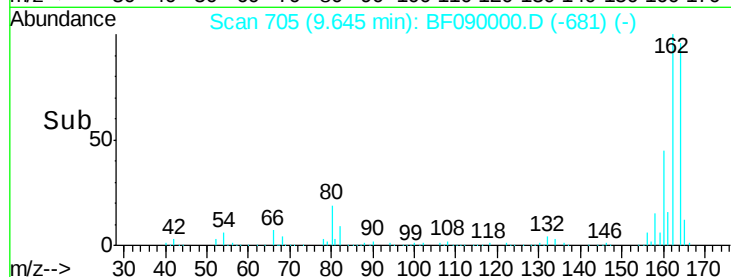
160 43.7 35.3 52.9



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: 128.04 ng

RT: 10.43 min Scan# 774

Delta R.T. -0.02 min

Lab File: BF090000.D

Acq: 7 Sep 2016 12:59

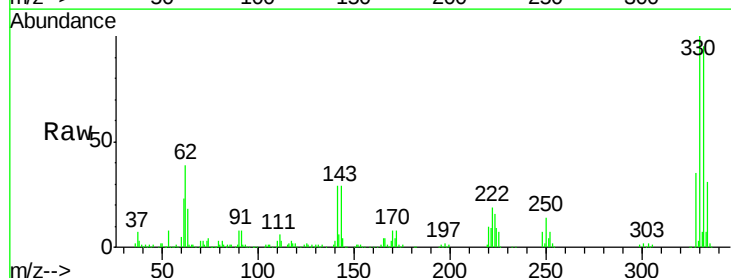
Tgt Ion:330 Resp: 480971

Ion Ratio Lower Upper

330 100

332 96.4 78.6 117.8

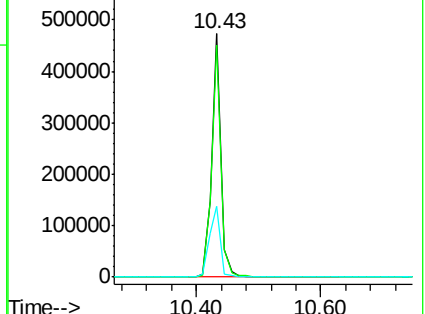
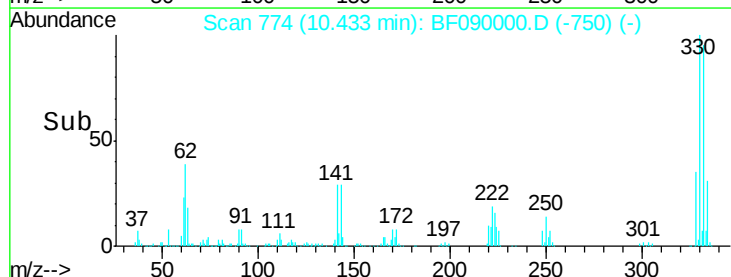
141 34.9 23.3 34.9

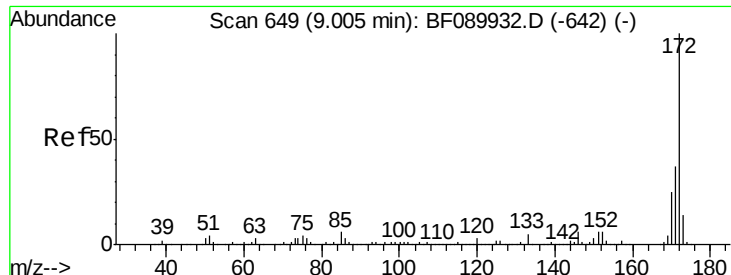


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

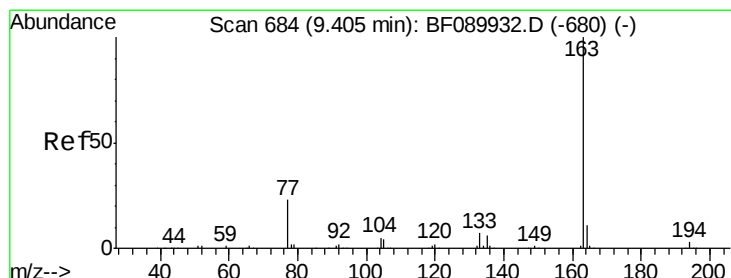
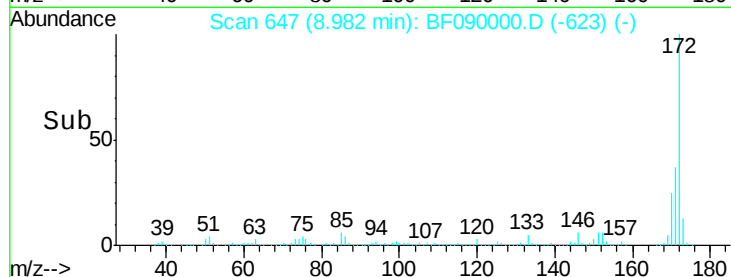
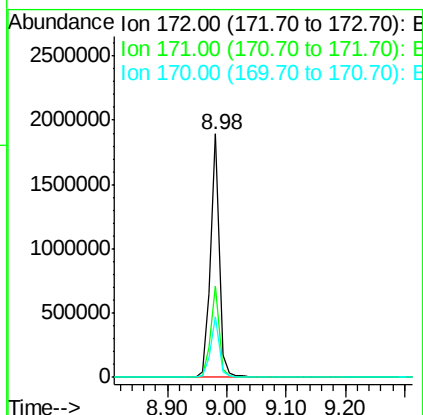
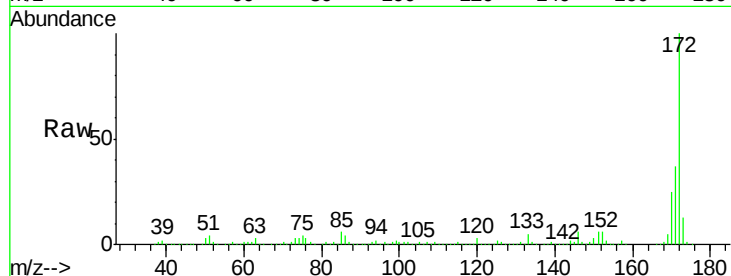




#44  
2-Fluorobiphenyl  
Concen: 84.08 ng  
RT: 8.98 min Scan# 647  
Delta R.T. -0.02 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

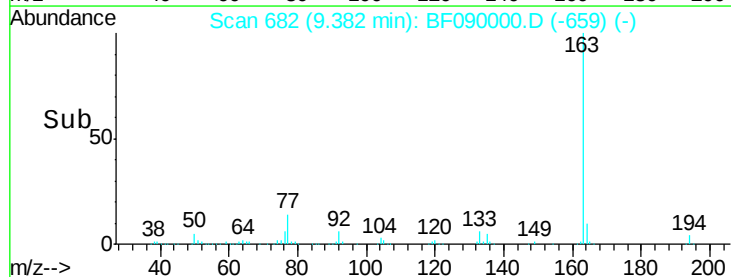
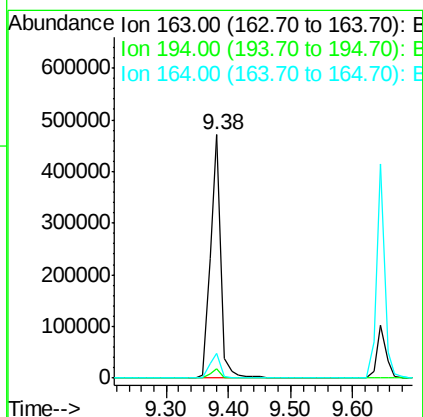
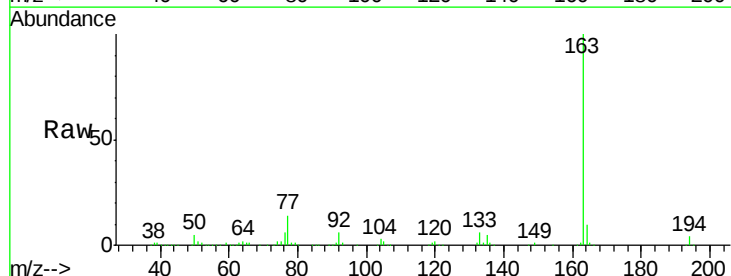
Instrument :  
BNA\_F  
ClientSampled :

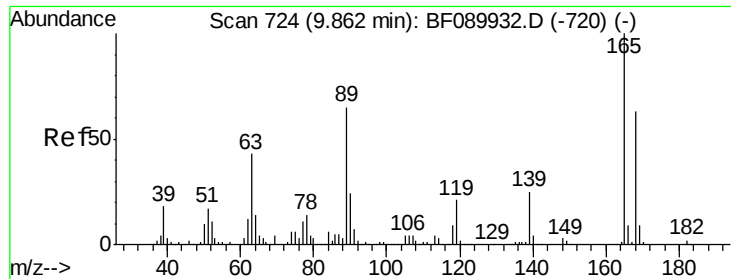
Tot Ion:172 Resp: 1950301  
Ion Ratio Lower Upper  
172 100  
171 37.4 29.4 44.2  
170 24.9 20.1 30.1



#49  
Dimethylphthalate  
Concen: 19.53 ng  
RT: 9.38 min Scan# 682  
Delta R.T. -0.03 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

Tgt Ion:163 Resp: 537343  
Ion Ratio Lower Upper  
163 100  
194 3.9 2.7 4.1  
164 10.2 9.0 13.4

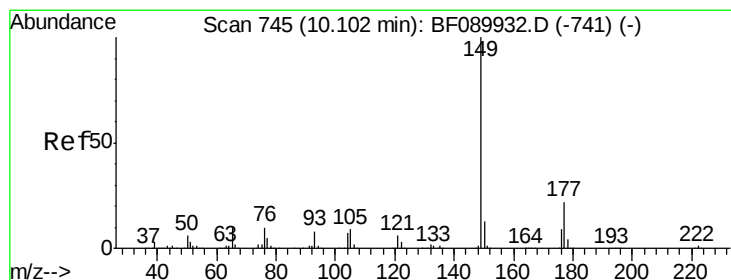
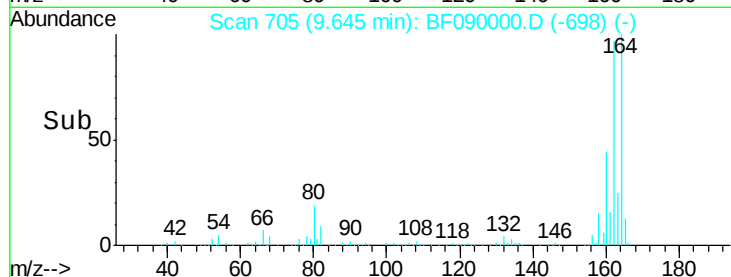
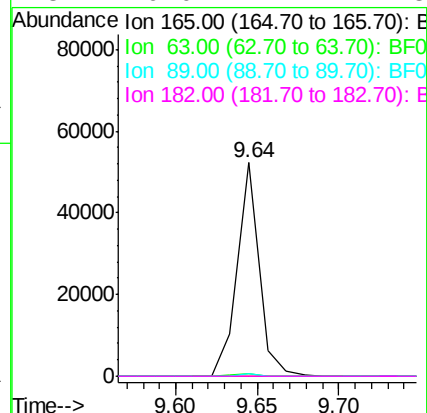
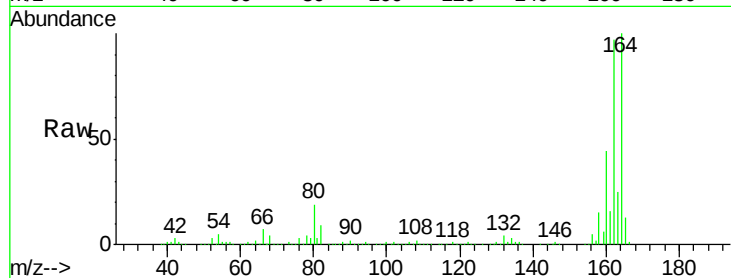




#56  
2,4-Dinitrotoluene  
Concen: 6.25 ng  
RT: 9.64 min Scan# 705  
Delta R.T. -0.22 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

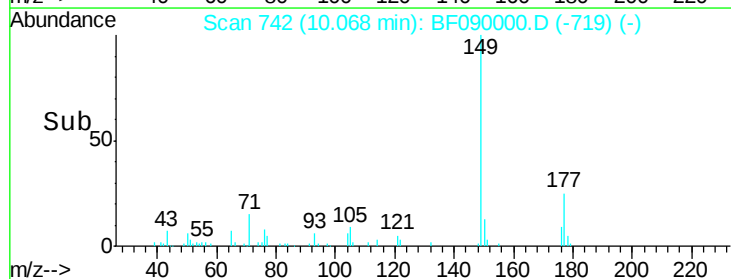
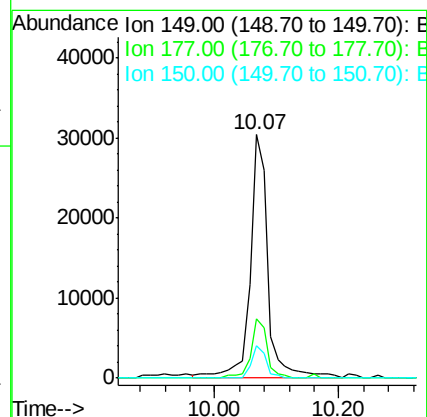
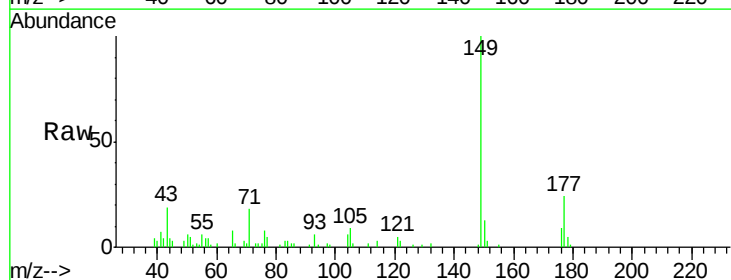
Instrument :  
BNA\_F  
ClientSampleId :

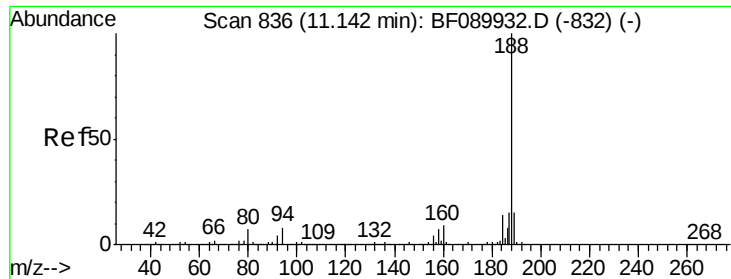
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 32.5  | 48.7# |
| 89      | 1.3   | 48.3  | 72.5# |
| 182     | 0.0   | 1.7   | 2.5#  |



#59  
Diethylphthalate  
Concen: 2.34 ng  
RT: 10.07 min Scan# 742  
Delta R.T. -0.03 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 24.1  | 17.7  | 26.5  |
| 150     | 13.1  | 10.2  | 15.2  |

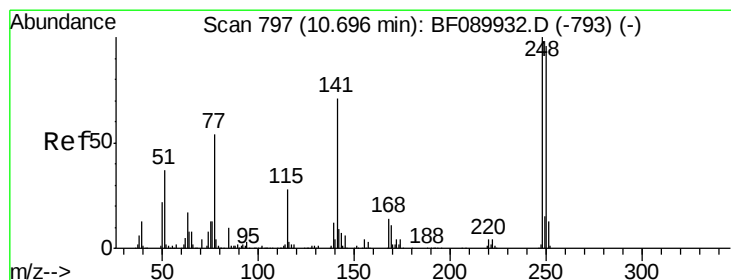
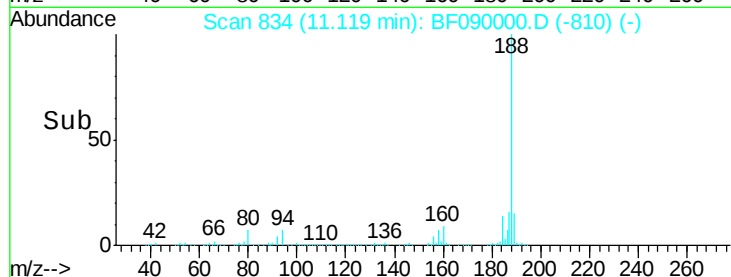
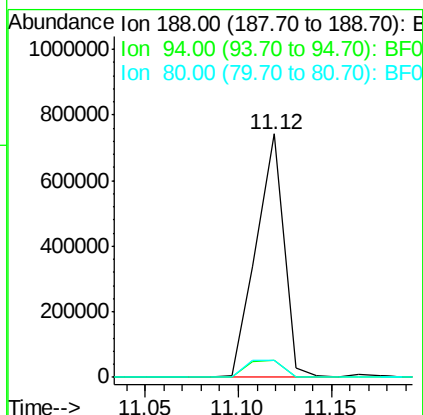
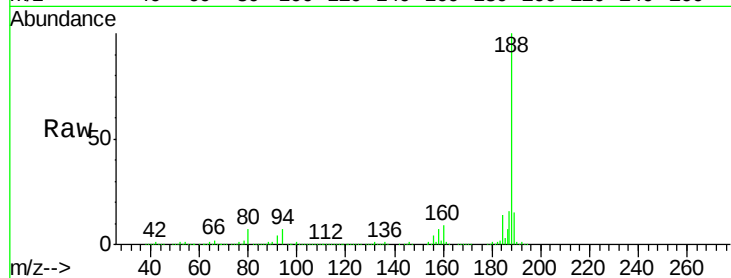




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.12 min Scan# 834  
Delta R.T. -0.02 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

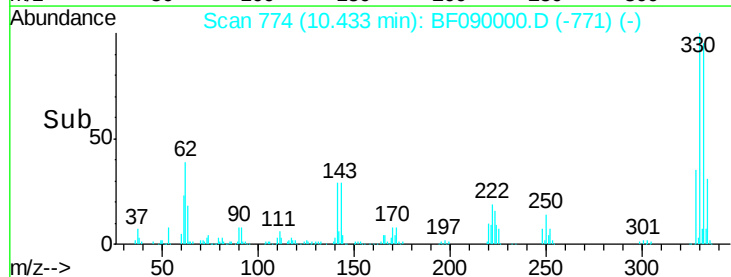
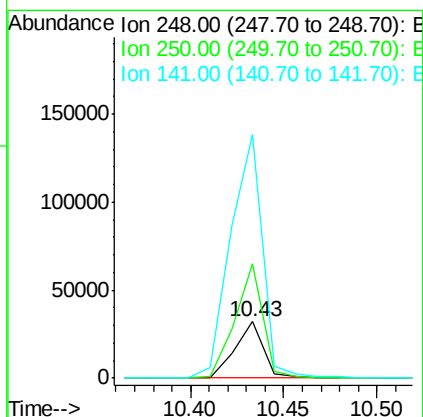
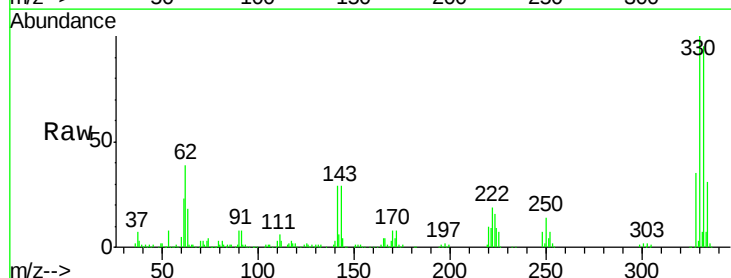
Instrument :  
BNA\_F  
ClientSampled :

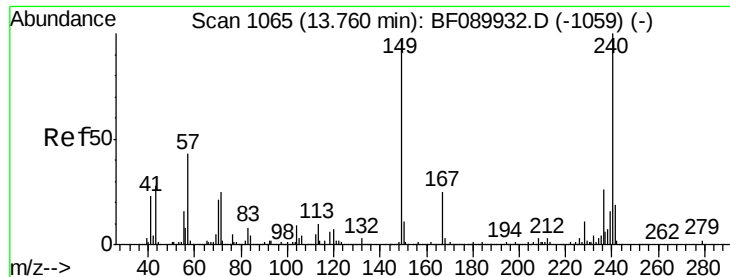
Tot Ion:188 Resp: 766468  
Ion Ratio Lower Upper  
188 100  
94 6.9 5.9 8.9  
80 6.9 5.8 8.8



#66  
4-Bromophenyl-phenylether  
Concen: 4.42 ng  
RT: 10.43 min Scan# 774  
Delta R.T. -0.26 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

Tgt Ion:248 Resp: 34086  
Ion Ratio Lower Upper  
248 100  
250 200.9 77.3 115.9#  
141 429.6 55.8 83.8#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.73 min Scan# 1062

Delta R.T. -0.03 min

Lab File: BF090000.D

Acq: 7 Sep 2016 12:59

Instrument :

BNA\_F

ClientSampleId :

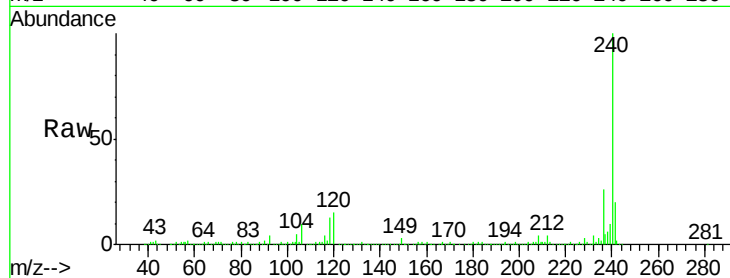
Tot Ion:240 Resp: 628582

Ion Ratio Lower Upper

240 100

120 14.8 5.7 8.5#

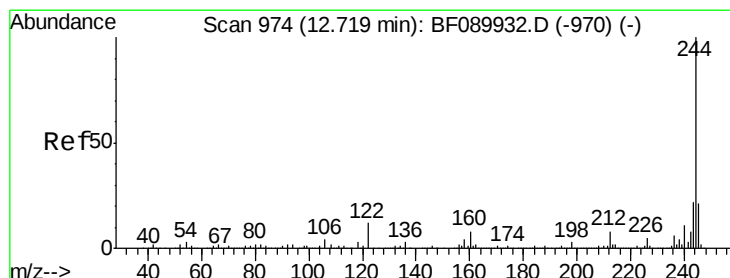
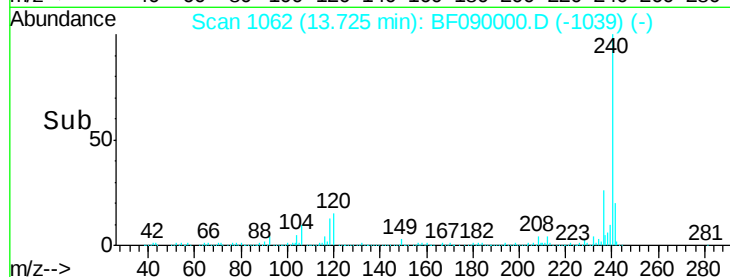
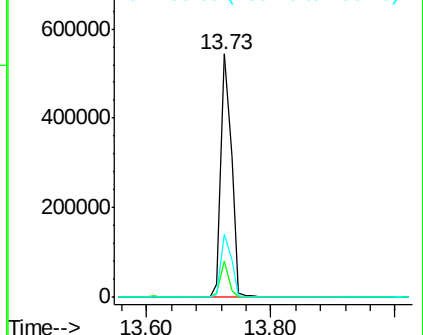
236 26.1 21.3 31.9



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: 83.07 ng

RT: 12.71 min Scan# 973

Delta R.T. -0.02 min

Lab File: BF090000.D

Acq: 7 Sep 2016 12:59

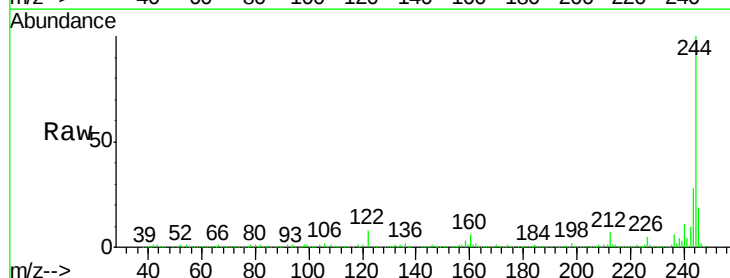
Tgt Ion:244 Resp: 2113743

Ion Ratio Lower Upper

244 100

212 7.1 6.1 9.1

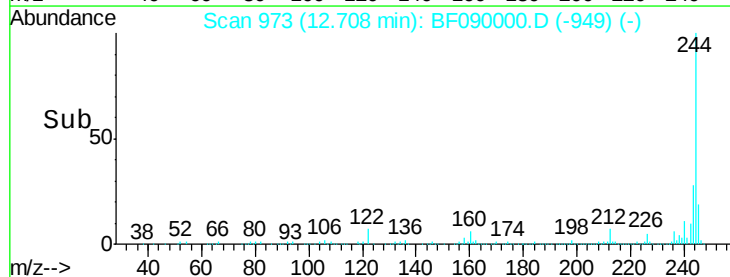
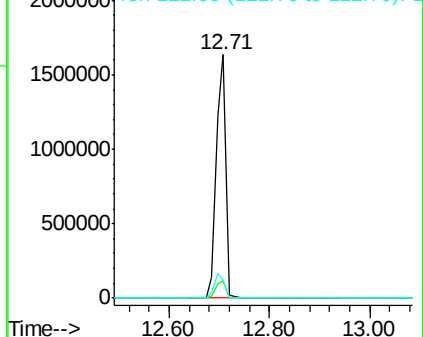
122 7.6 9.6 14.4#

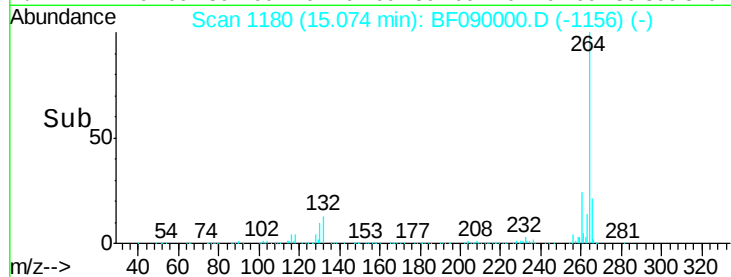
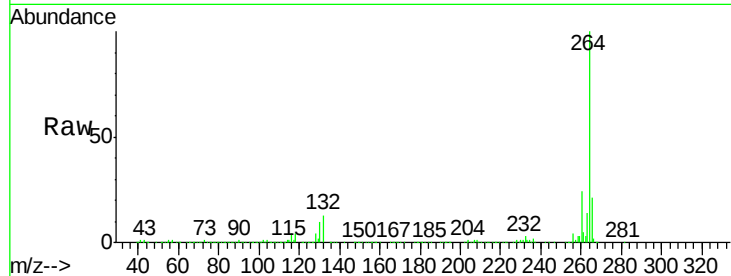
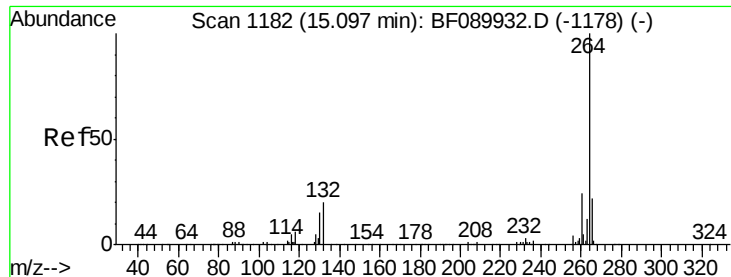


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.07 min Scan# 1180  
Delta R.T. -0.02 min  
Lab File: BF090000.D  
Acq: 7 Sep 2016 12:59

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.4  | 29.0  |
| 265     | 20.9  | 17.4  | 26.2  |

