

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042116\  
 Data File : BF086347.D  
 Acq On : 21 Apr 2016 16:53  
 Operator : UM/SJ  
 Sample : PB89669TB  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB89669TB

Quant Time: Apr 22 00:49:24 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF042016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 20 15:45:26 2016  
 Response via : Initial Calibration

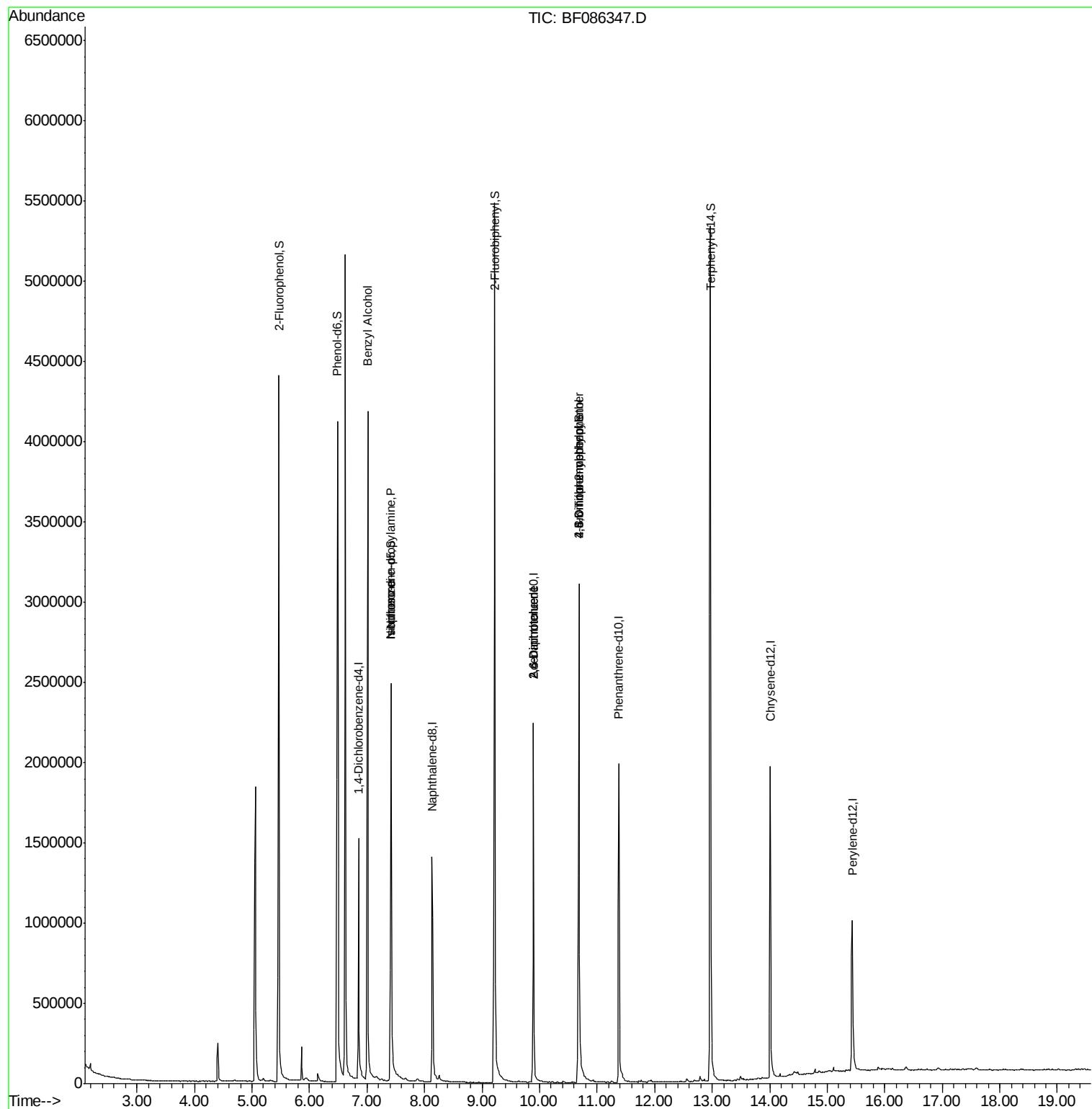
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 261231   | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 8.13  | 136  | 1071025  | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.89  | 164  | 535724   | 20.00  | ng    | -0.05    |
| 63) Phenanthrene-d10           | 11.38 | 188  | 1056009  | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12               | 14.01 | 240  | 811644   | 20.00  | ng    | -0.05    |
| 86) Perylene-d12               | 15.44 | 264  | 556346   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 1803576  | 120.46 | ng    | -0.01    |
| 7) Phenol-d6                   | 6.49  | 99   | 2148921  | 109.68 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.41  | 82   | 1502538  | 80.35  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.68 | 330  | 493987   | 118.30 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 2448782  | 88.08  | ng    | -0.05    |
| 78) Terphenyl-d14              | 12.97 | 244  | 2126437  | 62.36  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 7.01  | 79   | 26250    | 2.16   | ng    | # 44     |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 191685   | 16.15  | ng    | # 81     |
| 25) Isophorone                 | 7.41  | 82   | 1261395  | 35.60  | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 9.89  | 165  | 64723    | 7.71   | ng    | # 32     |
| 56) 2,4-Dinitrotoluene         | 9.89  | 165  | 66970    | 6.42   | ng    | # 31     |
| 64) 4,6-Dinitro-2-methylphenol | 10.68 | 198  | 831      | 6.28   | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.68 | 248  | 30790    | 2.71   | ng    | # 1      |

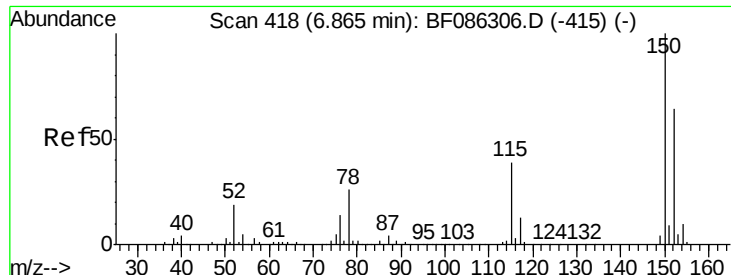
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042116\  
Data File : BF086347.D  
Acq On : 21 Apr 2016 16:53  
Operator : UM/SJ  
Sample : PB89669TB  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB89669TB

Quant Time: Apr 22 00:49:24 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF042016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 20 15:45:26 2016  
Response via : Initial Calibration



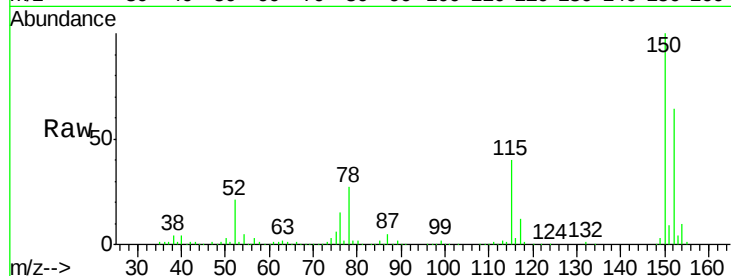


#1

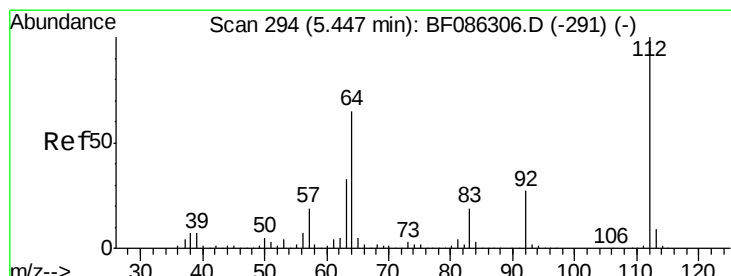
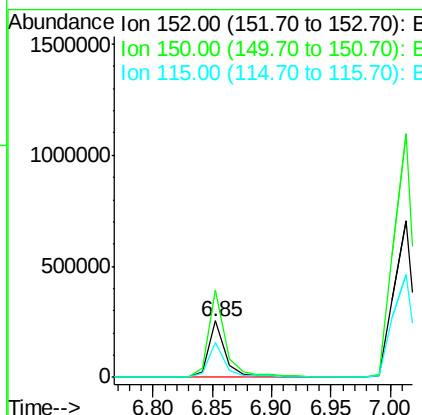
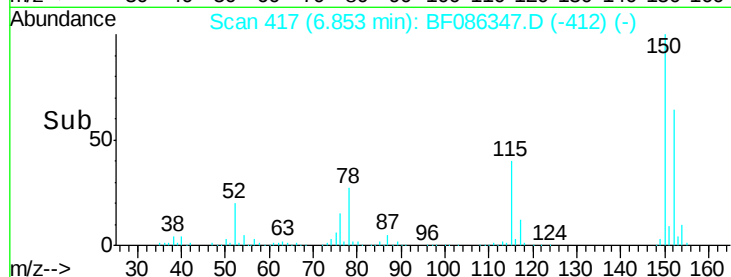
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.85 min Scan# 417  
Delta R.T. -0.05 min  
Lab File: BF086347.D  
Acq: 21 Apr 2016 16:53

Instrument :  
BNA\_F  
ClientSampled :  
PB89669TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.4 | 124.1 | 186.1 |
| 115     | 62.6  | 43.9  | 65.9  |



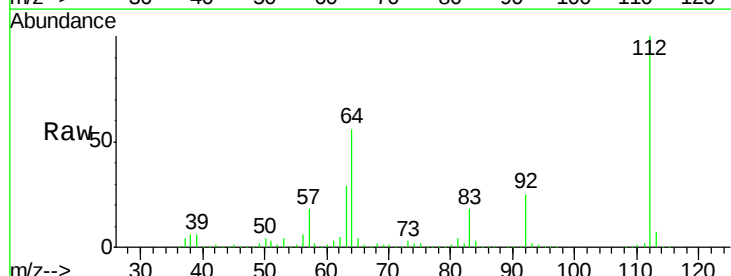
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



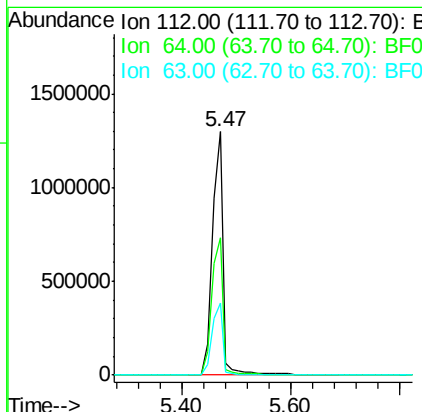
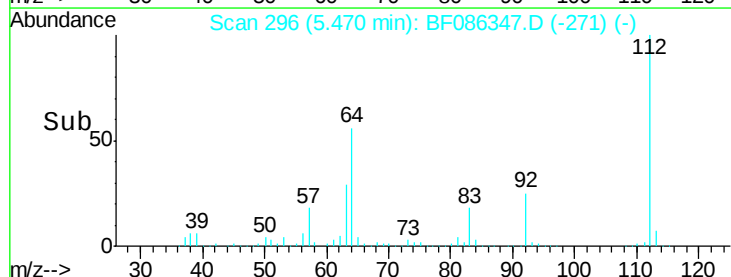
#5

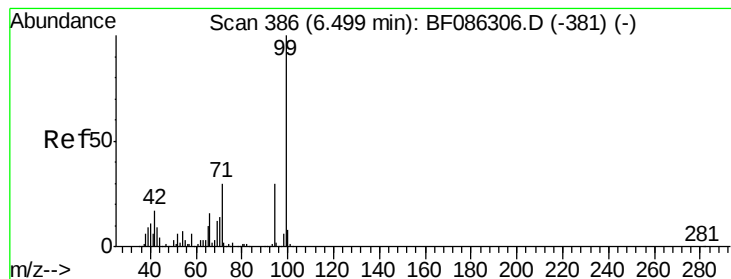
2-Fluorophenol  
Concen: 120.46 ng  
RT: 5.47 min Scan# 296  
Delta R.T. -0.01 min  
Lab File: BF086347.D  
Acq: 21 Apr 2016 16:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.3  | 48.1  | 72.1  |
| 63      | 29.4  | 25.5  | 38.3  |



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: 109.68 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.03 min

Lab File: BF086347.D

Acq: 21 Apr 2016 16:53

Instrument :

BNA\_F

ClientSampleId :

PB89669TB

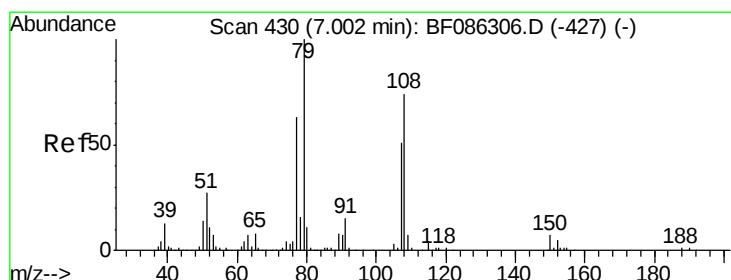
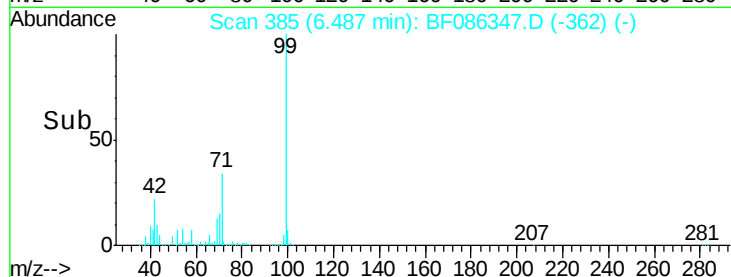
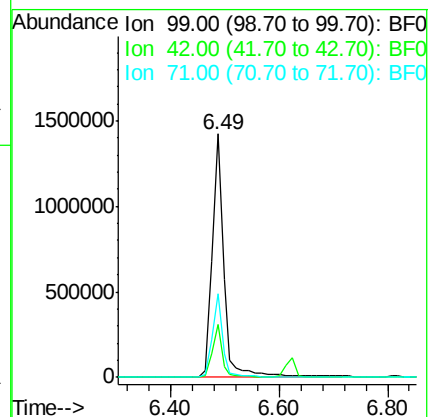
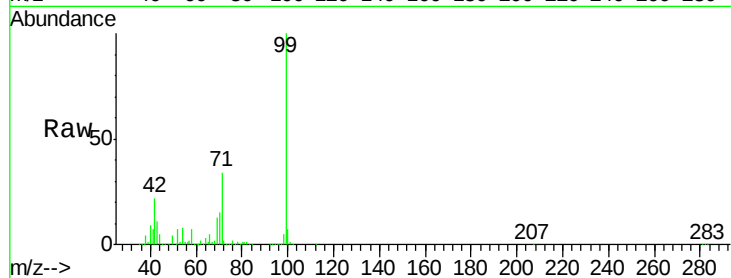
Tgt Ion: 99 Resp: 2148921

Ion Ratio Lower Upper

99 100

42 21.8 15.4 23.2

71 34.4 25.6 38.4



#15

Benzyl Alcohol

Concen: 2.16 ng

RT: 7.01 min Scan# 431

Delta R.T. -0.02 min

Lab File: BF086347.D

Acq: 21 Apr 2016 16:53

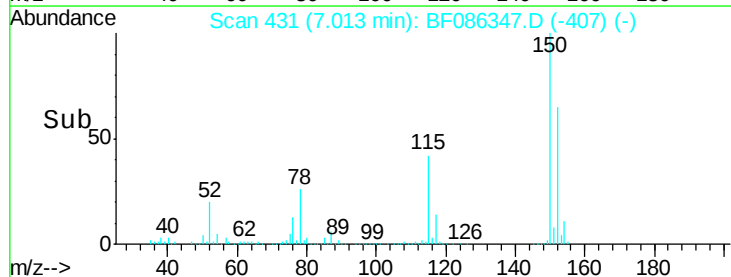
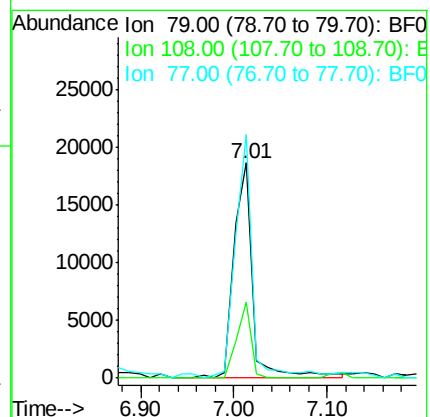
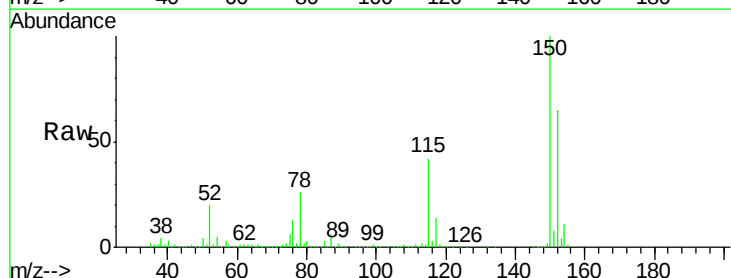
Tgt Ion: 79 Resp: 26250

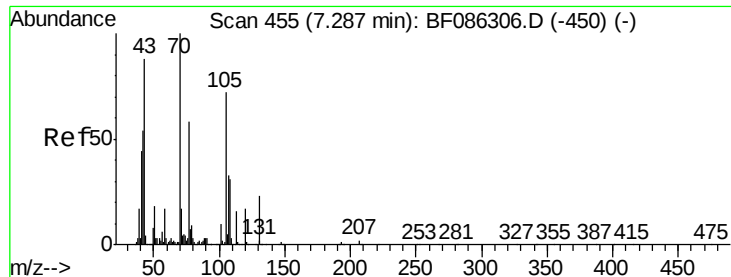
Ion Ratio Lower Upper

79 100

108 35.3 64.8 97.2#

77 113.3 51.9 77.9#

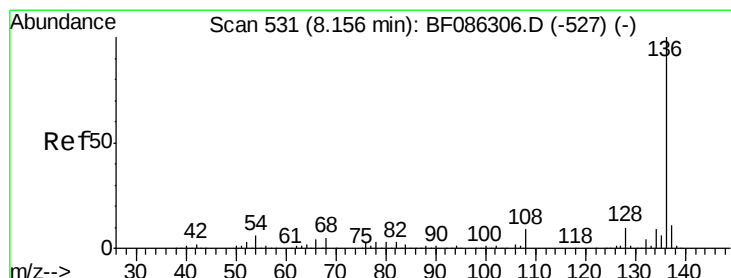
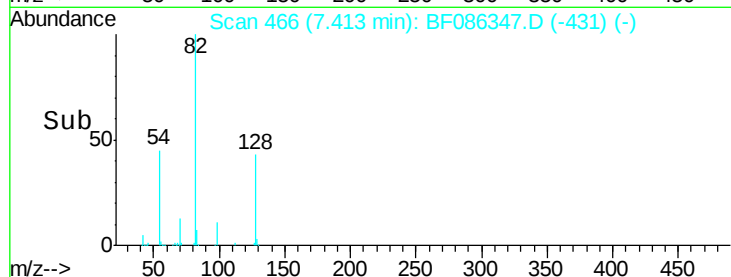
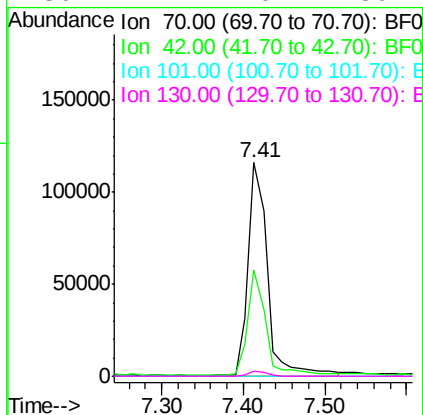
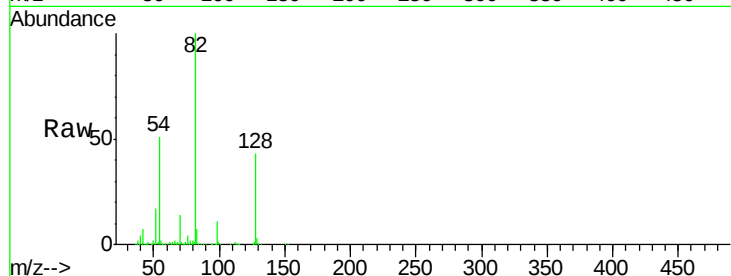




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.15 ng  
RT: 7.41 min Scan# 466  
Delta R.T. 0.10 min  
Lab File: BF086347.D  
Acq: 21 Apr 2016 16:53

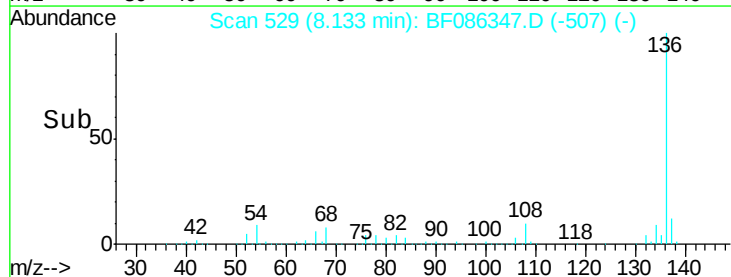
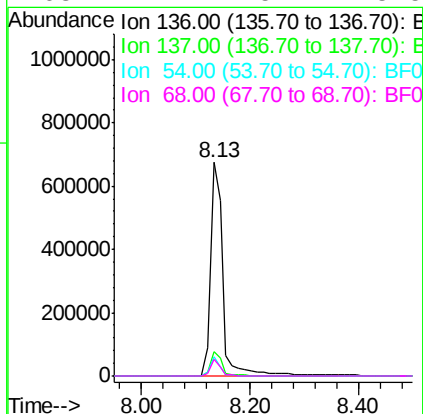
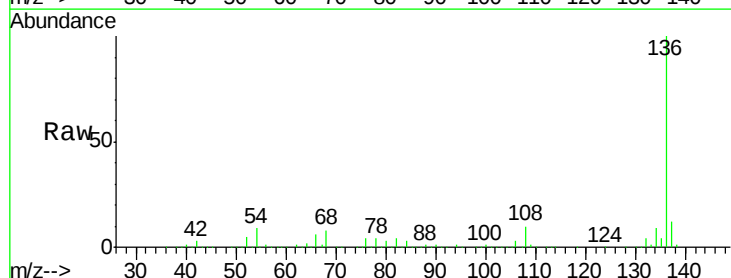
Instrument :  
BNA\_F  
ClientSampleId :  
PB89669TB

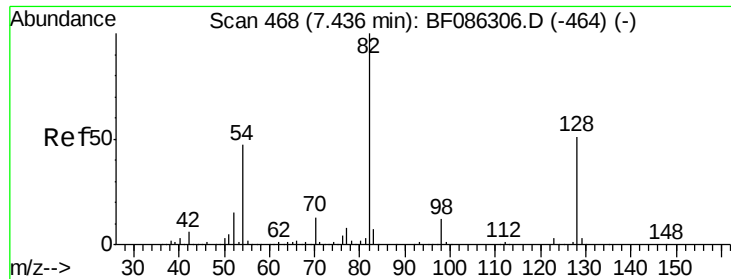
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 191685 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 49.9  | 43.0  | 64.4   |
| 101      | 0.0   | 8.1   | 12.1#  |
| 130      | 2.2   | 20.1  | 30.1#  |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.13 min Scan# 529  
Delta R.T. -0.05 min  
Lab File: BF086347.D  
Acq: 21 Apr 2016 16:53

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 136   | Resp: | 1071025 |
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 11.5  | 9.1   | 13.7    |
| 54       | 9.1   | 7.3   | 10.9    |
| 68       | 7.7   | 5.7   | 8.5     |

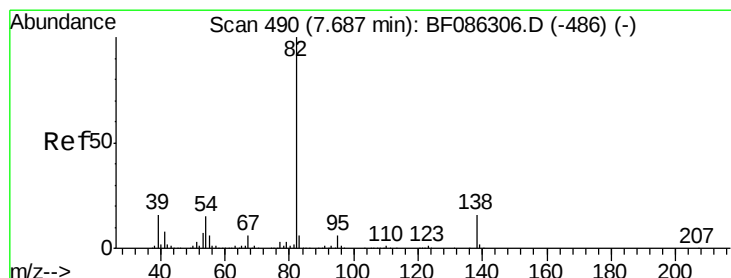
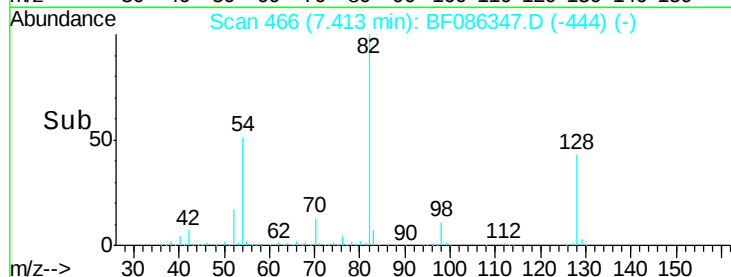
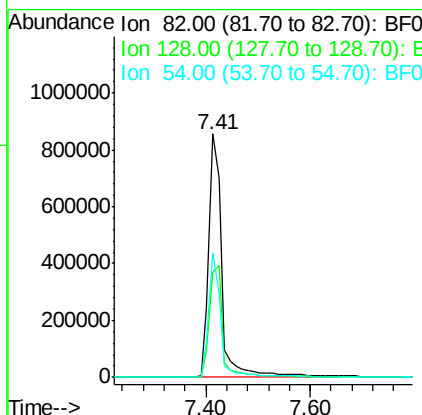
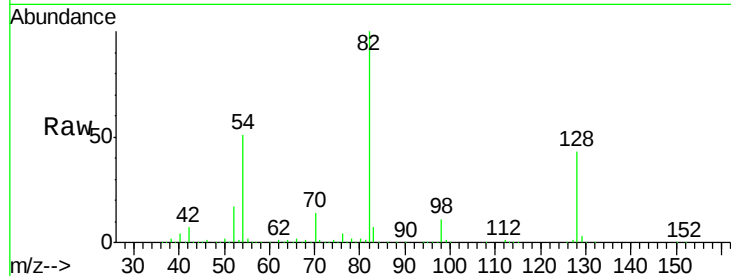




#23  
 Nitrobenzene-d5  
 Concen: 80.35 ng  
 RT: 7.41 min Scan# 466  
 Delta R.T. -0.05 min  
 Lab File: BF086347.D  
 Acq: 21 Apr 2016 16:53

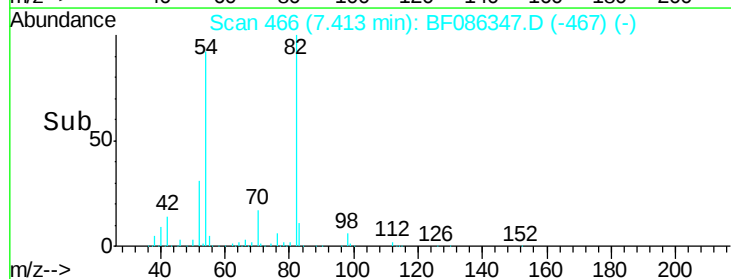
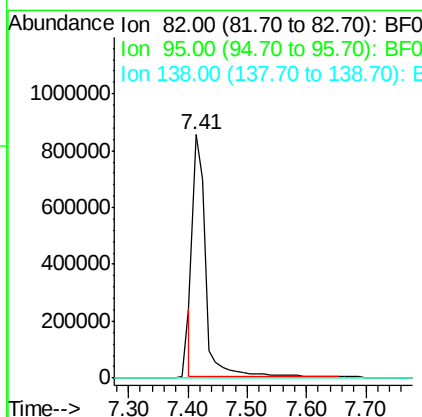
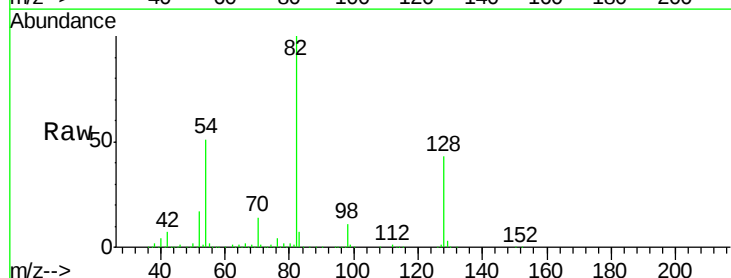
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB89669TB

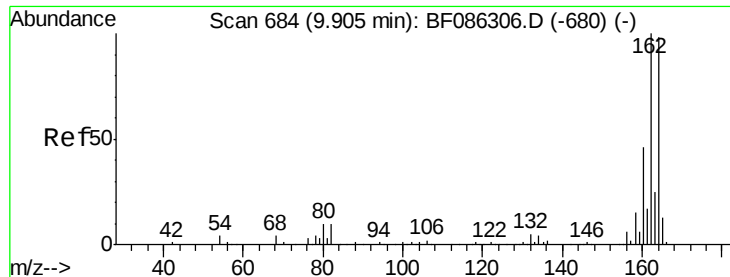
Tgt Ion: 82 Resp: 1502538  
 Ion Ratio Lower Upper  
 82 100  
 128 43.2 35.4 53.2  
 54 51.4 43.4 65.0



#25  
 Isophorone  
 Concen: 35.60 ng  
 RT: 7.41 min Scan# 466  
 Delta R.T. -0.31 min  
 Lab File: BF086347.D  
 Acq: 21 Apr 2016 16:53

Tgt Ion: 82 Resp: 1261395  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.4 8.2#  
 138 0.0 13.4 20.2#

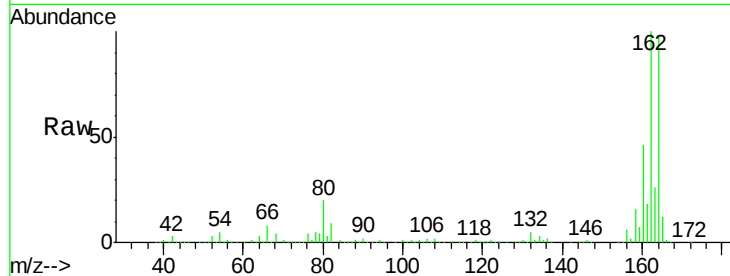




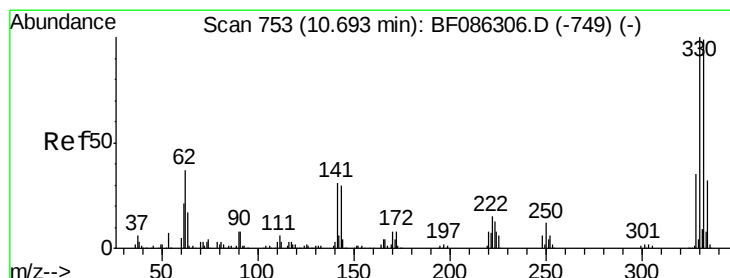
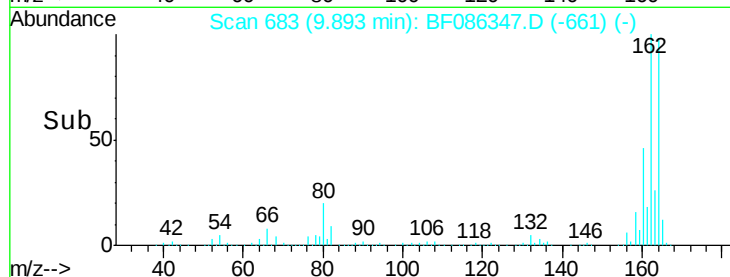
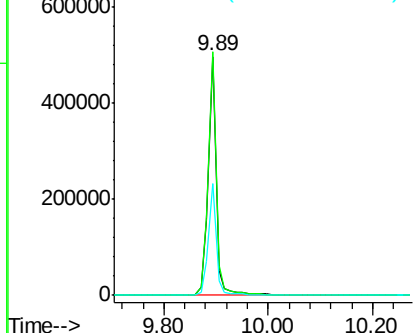
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.89 min Scan# 683  
 Delta R.T. -0.05 min  
 Lab File: BF086347.D  
 Acq: 21 Apr 2016 16:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB89669TB

Tgt Ion:164 Resp: 535724  
 Ion Ratio Lower Upper  
 164 100  
 162 101.9 82.8 124.2  
 160 46.5 38.9 58.3

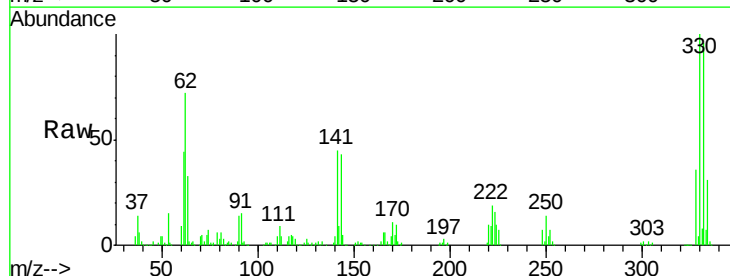


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

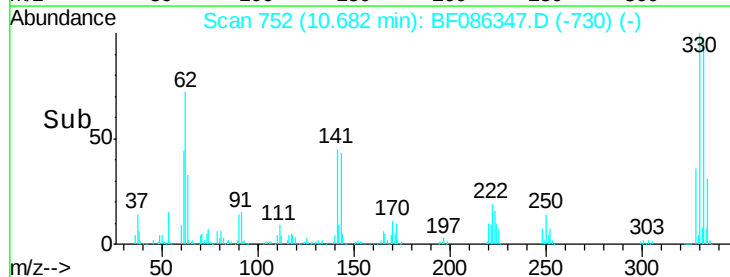
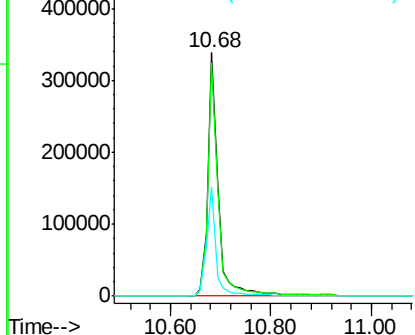


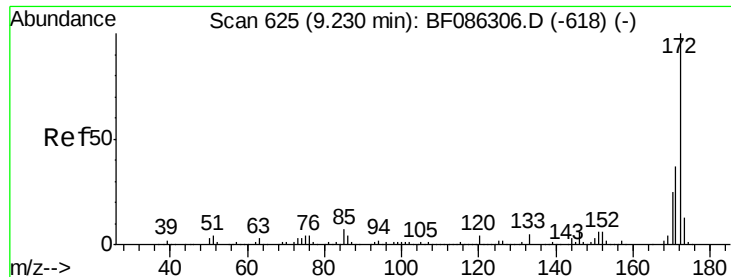
#41  
 2,4,6-Tribromophenol  
 Concen: 118.30 ng  
 RT: 10.68 min Scan# 752  
 Delta R.T. -0.05 min  
 Lab File: BF086347.D  
 Acq: 21 Apr 2016 16:53

Tgt Ion:330 Resp: 493987  
 Ion Ratio Lower Upper  
 330 100  
 332 95.5 78.7 118.1  
 141 41.1 28.6 42.8



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

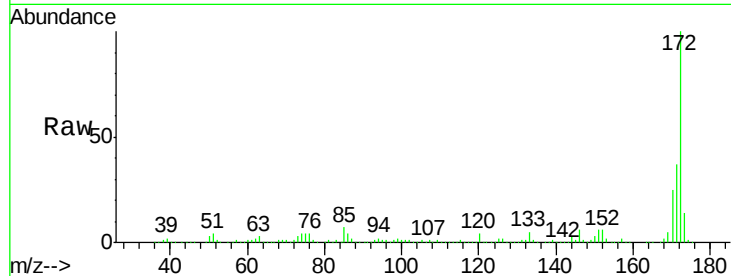




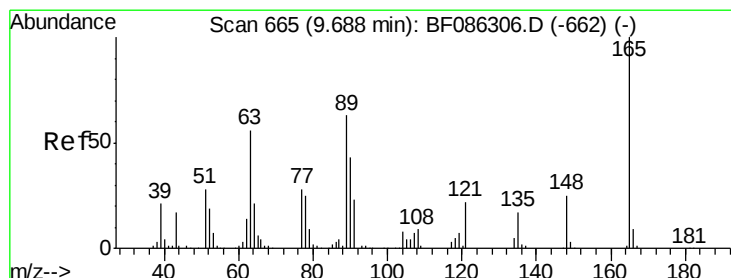
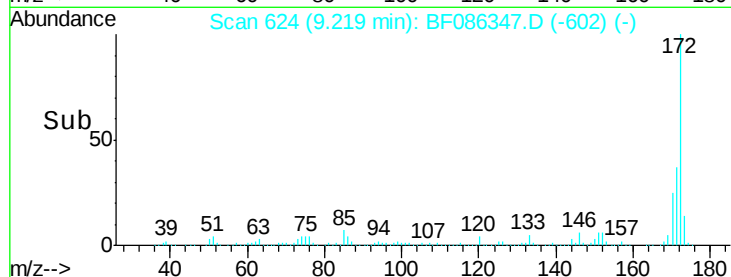
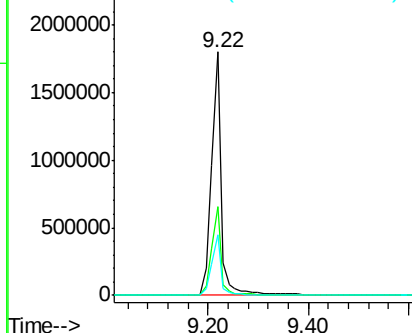
#44  
 2-Fluorobiphenyl  
 Concen: 88.08 ng  
 RT: 9.22 min Scan# 624  
 Delta R.T. -0.05 min  
 Lab File: BF086347.D  
 Acq: 21 Apr 2016 16:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB89669TB

Tgt Ion:172 Resp: 2448782  
 Ion Ratio Lower Upper  
 172 100  
 171 36.7 29.1 43.7  
 170 24.8 19.9 29.9

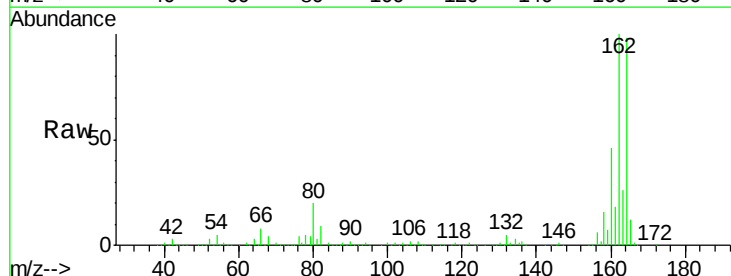


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

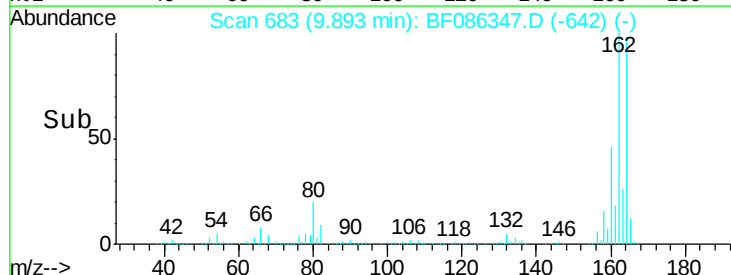
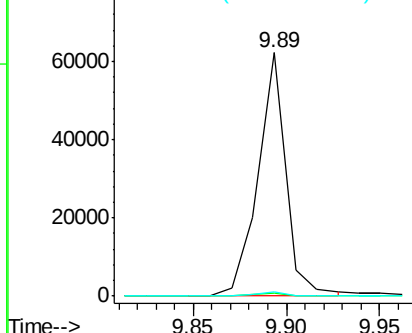


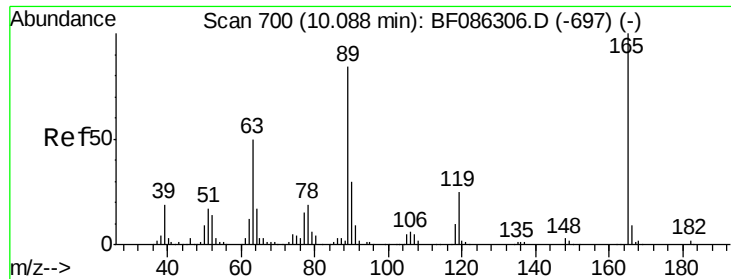
#50  
 2,6-Dinitrotoluene  
 Concen: 7.71 ng  
 RT: 9.89 min Scan# 683  
 Delta R.T. 0.17 min  
 Lab File: BF086347.D  
 Acq: 21 Apr 2016 16:53

Tgt Ion:165 Resp: 64723  
 Ion Ratio Lower Upper  
 165 100  
 63 1.1 35.1 52.7#  
 89 1.6 39.8 59.6#



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

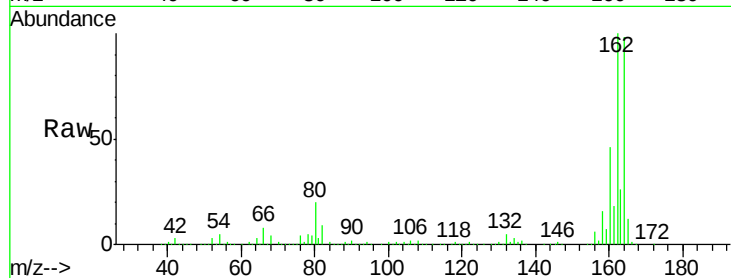




#56  
 2,4-Dinitrotoluene  
 Concen: 6.42 ng  
 RT: 9.89 min Scan# 683  
 Delta R.T. -0.23 min  
 Lab File: BF086347.D  
 Acq: 21 Apr 2016 16:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB89669TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 26.6  | 40.0# |
| 89      | 1.6   | 49.5  | 74.3# |
| 182     | 0.0   | 1.9   | 2.9#  |

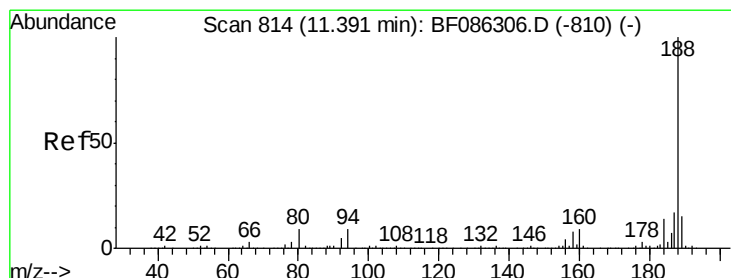
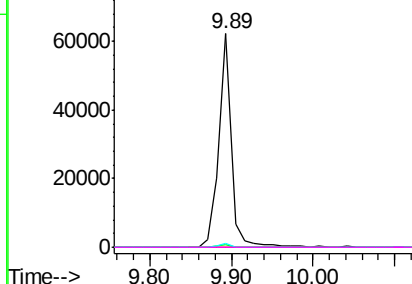
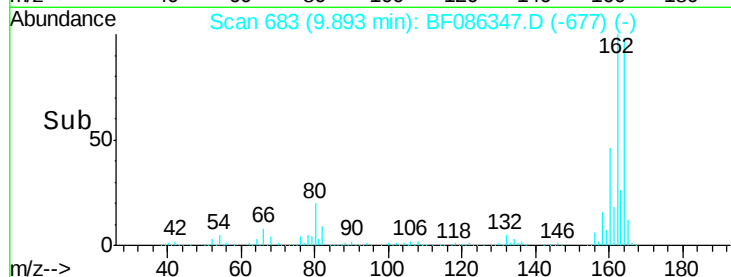


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

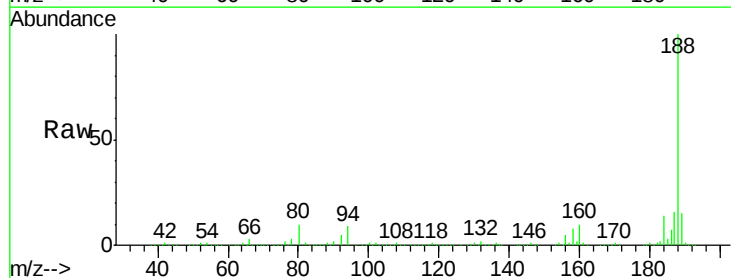
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.38 min Scan# 813  
 Delta R.T. -0.03 min  
 Lab File: BF086347.D  
 Acq: 21 Apr 2016 16:53

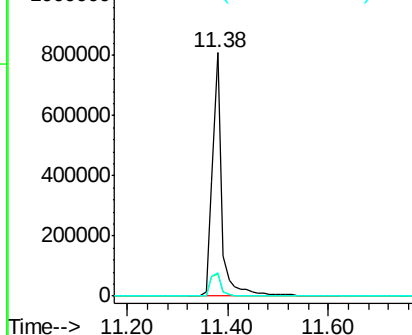
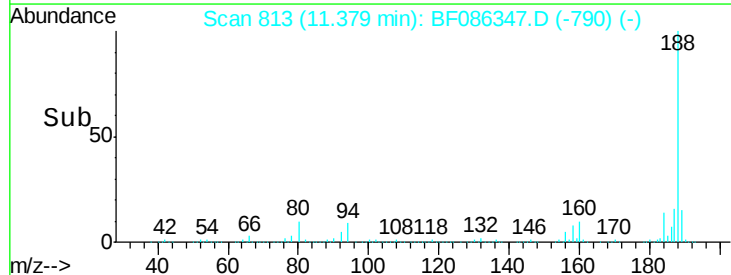
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.2   | 9.8   | 14.8# |
| 80      | 9.7   | 10.5  | 15.7# |

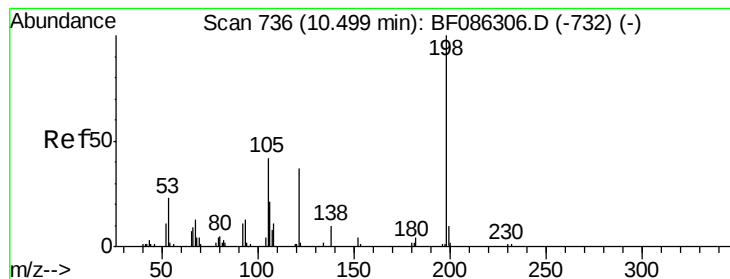


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 6.28 ng

RT: 10.68 min Scan# 752

Delta R.T. 0.16 min

Lab File: BF086347.D

Acq: 21 Apr 2016 16:53

Instrument :

BNA\_F

ClientSampleId :

PB89669TB

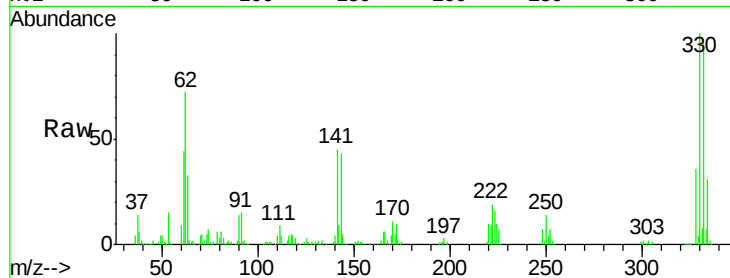
Tgt Ion:198 Resp: 831

Ion Ratio Lower Upper

198 100

51 266.5 56.5 96.5#

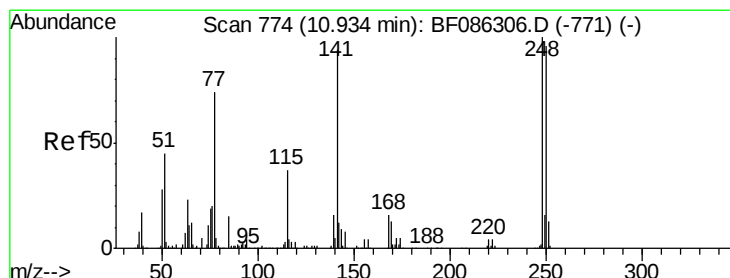
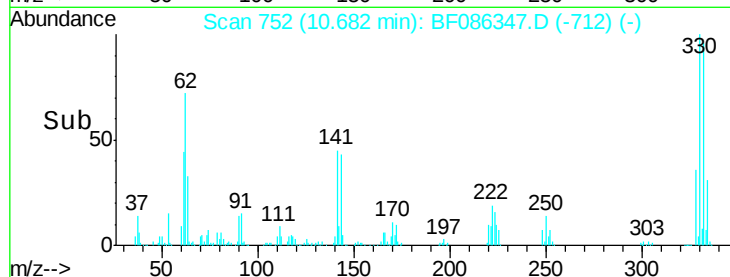
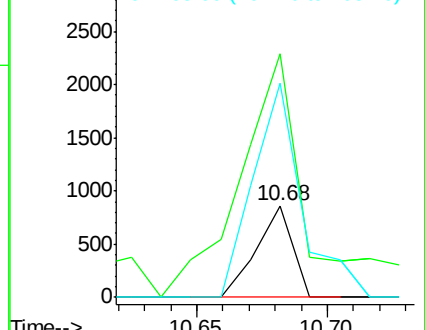
105 234.2 48.0 88.0#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 2.71 ng

RT: 10.68 min Scan# 752

Delta R.T. -0.29 min

Lab File: BF086347.D

Acq: 21 Apr 2016 16:53

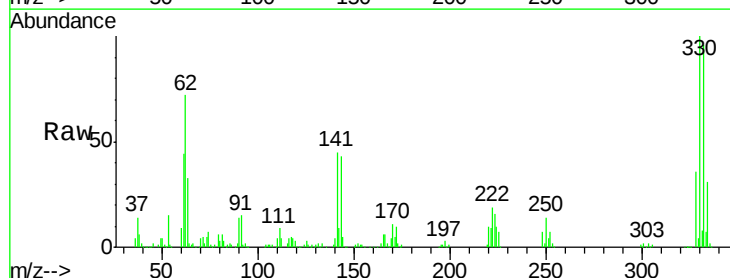
Tgt Ion:248 Resp: 30790

Ion Ratio Lower Upper

248 100

250 196.2 78.6 118.0#

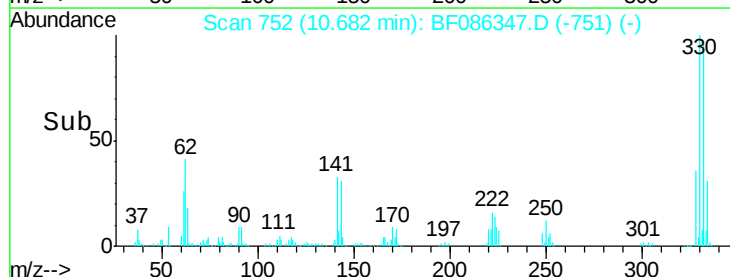
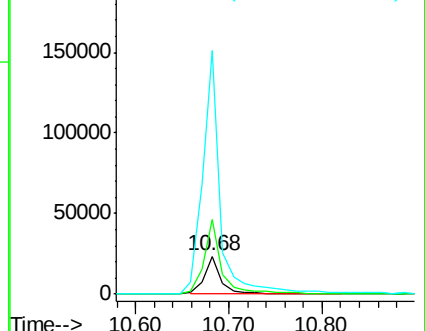
141 638.5 57.9 86.9#

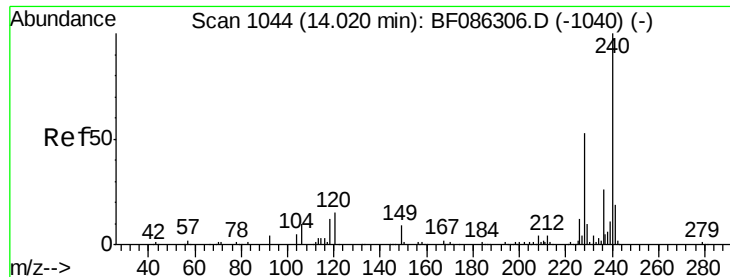


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.05 min

Lab File: BF086347.D

Acq: 21 Apr 2016 16:53

Instrument :

BNA\_F

ClientSampleId :

PB89669TB

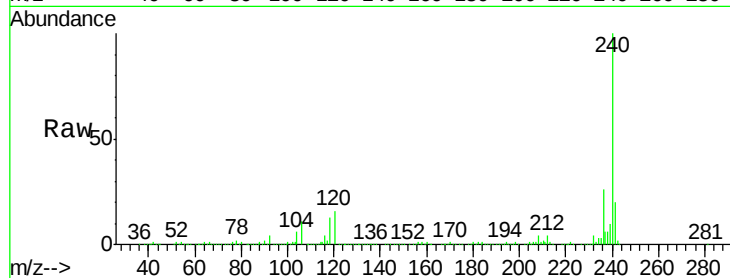
Tgt Ion:240 Resp: 811644

Ion Ratio Lower Upper

240 100

120 15.5 9.3 13.9#

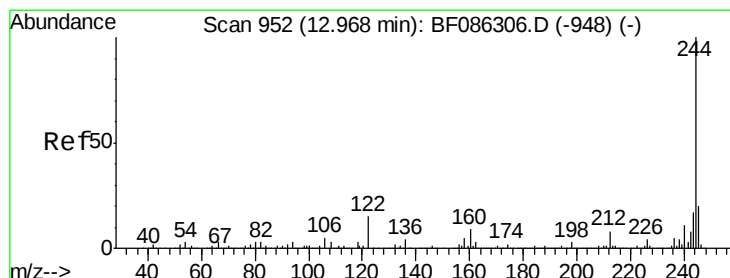
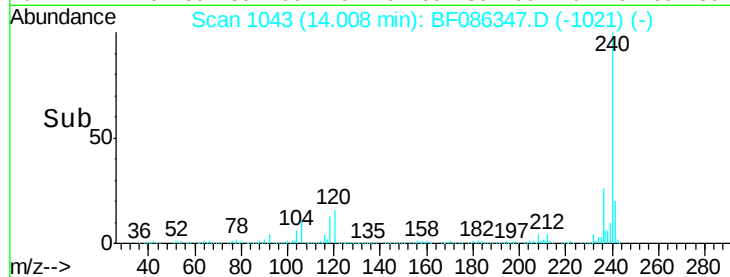
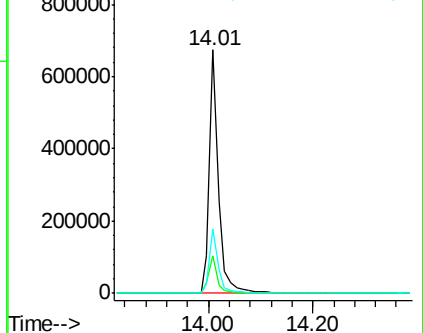
236 26.5 21.1 31.7



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: 62.36 ng

RT: 12.97 min Scan# 952

Delta R.T. -0.03 min

Lab File: BF086347.D

Acq: 21 Apr 2016 16:53

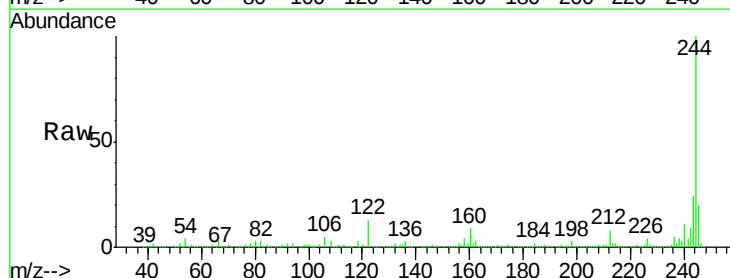
Tgt Ion:244 Resp: 2126437

Ion Ratio Lower Upper

244 100

212 7.7 6.4 9.6

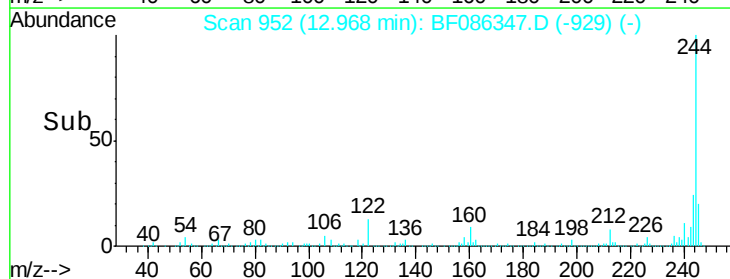
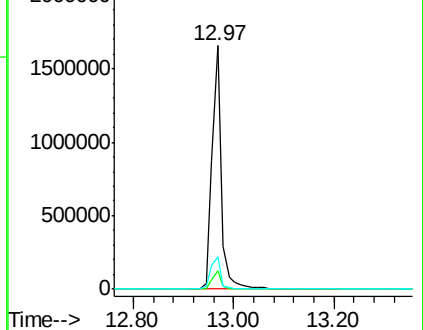
122 13.3 11.7 17.5

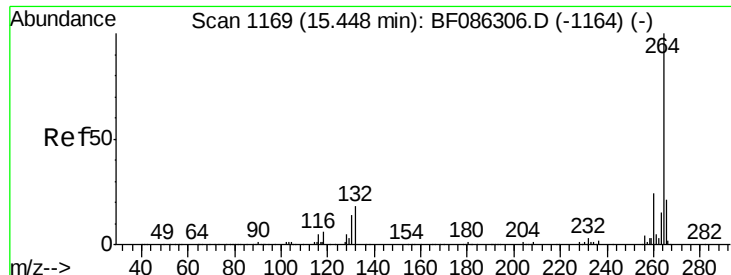


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

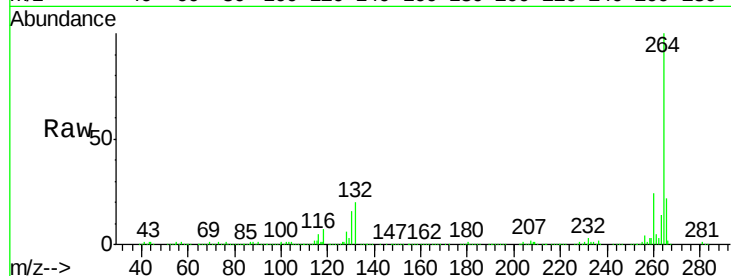




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.44 min Scan# 1168  
Delta R.T. -0.05 min  
Lab File: BF086347.D  
Acq: 21 Apr 2016 16:53

Instrument :  
BNA\_F  
ClientSampleId :  
PB89669TB

Tgt Ion: 264 Resp: 556346  
Ion Ratio Lower Upper  
264 100  
260 24.3 20.0 30.0  
265 21.5 17.4 26.0



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

