

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050616\  
 Data File : BF086734.D  
 Acq On : 6 May 2016 20:04  
 Operator : UM/SJ  
 Sample : H2802-05  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 07 03:26:51 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat May 07 03:18:46 2016  
 Response via : Initial Calibration

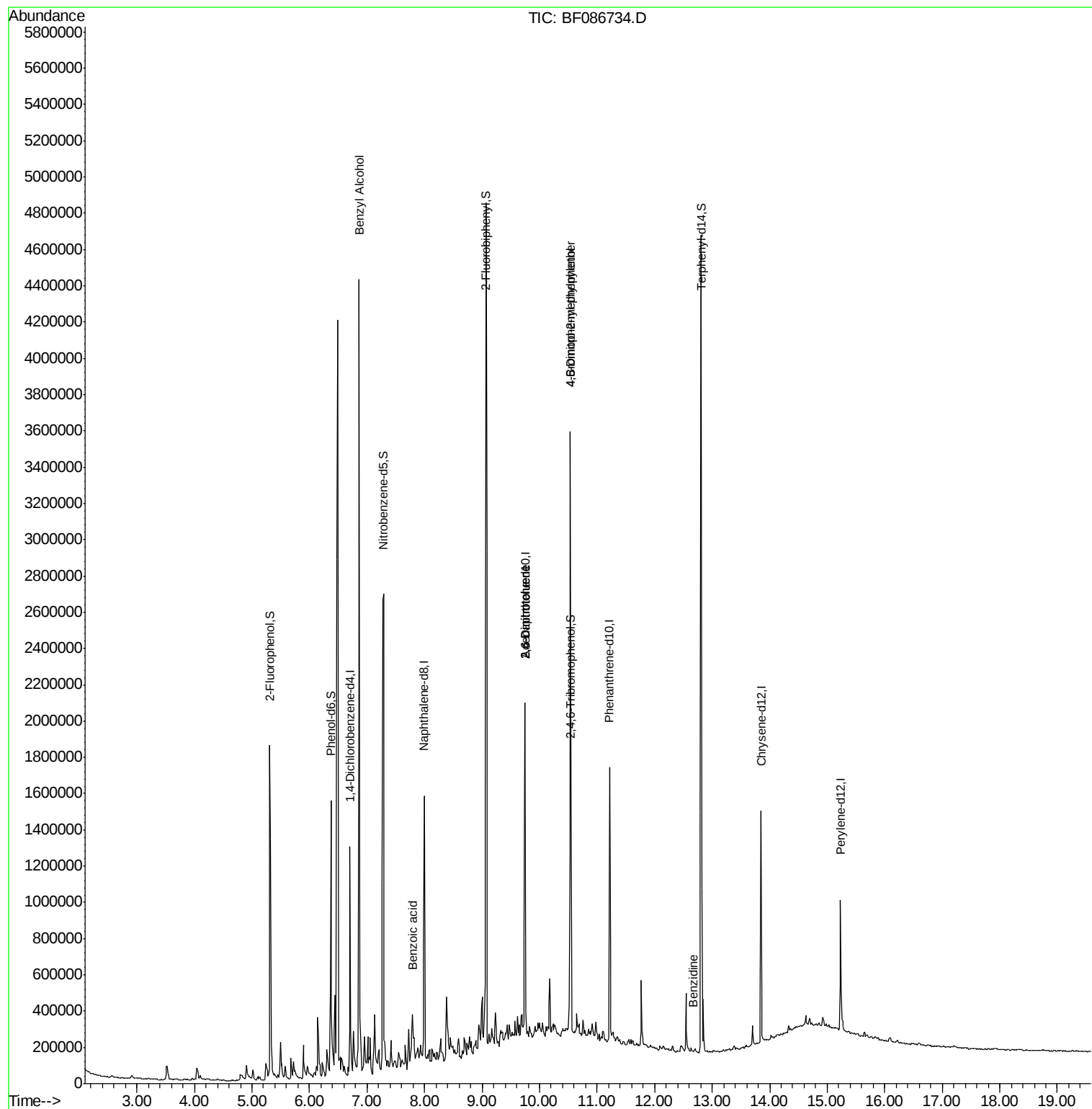
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.70  | 152  | 176633   | 40.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.00  | 136  | 740764   | 40.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.74  | 164  | 341229   | 40.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.22 | 188  | 539397   | 40.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.85 | 240  | 423628   | 40.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.23 | 264  | 321072   | 40.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.31  | 112  | 632299   | 59.26  | ng    | -0.01    |
| 7) Phenol-d6                   | 6.37  | 99   | 502794   | 34.98  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 1351191  | 93.73  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.54 | 330  | 495250   | 148.37 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.07  | 172  | 2037667  | 97.89  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.81 | 244  | 1437402  | 68.57  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 6.86  | 79   | 33912    | 3.65   | ng    | # 43     |
| 32) Benzoic acid               | 7.79  | 122  | 30310    | 13.90  | ng    | # 81     |
| 50) 2,6-Dinitrotoluene         | 9.74  | 165  | 46436    | 8.51   | ng    | # 30     |
| 56) 2,4-Dinitrotoluene         | 9.74  | 165  | 47064    | 6.96   | ng    | # 24     |
| 64) 4,6-Dinitro-2-methylphenol | 10.53 | 198  | 1116     | 5.68   | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.53 | 248  | 28505    | 5.32   | ng    | # 1      |
| 76) Benzydine                  | 12.67 | 184  | 1137     | 7.18   | ng    | # 1      |

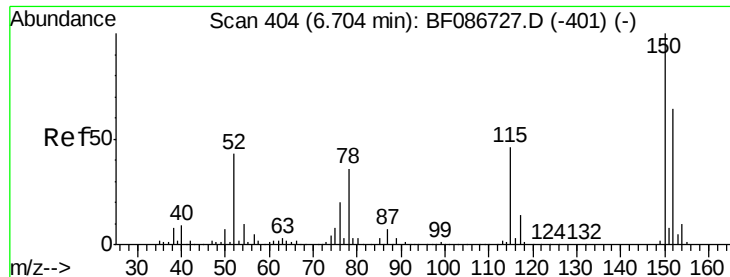
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 40.00 ng

RT: 6.70 min Scan# 404

Delta R.T. 0.00 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

Instrument :

BNA\_F

ClientSampleId :

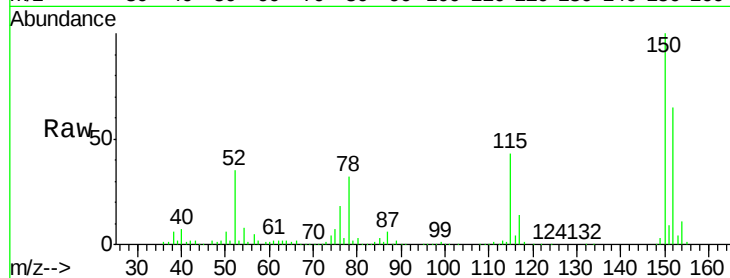
Tot Ion:152 Resp: 176633

Ion Ratio Lower Upper

152 100

150 153.8 125.8 188.6

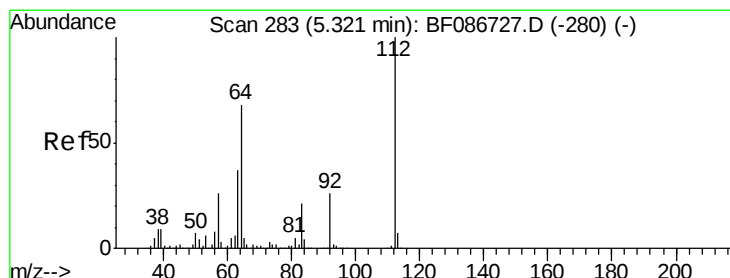
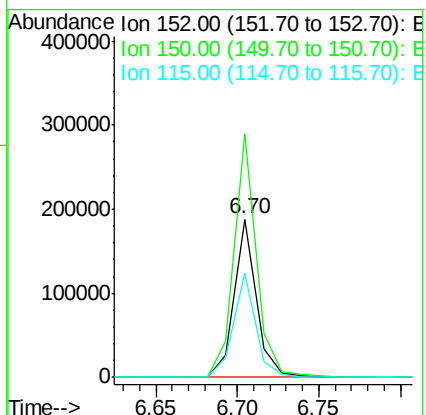
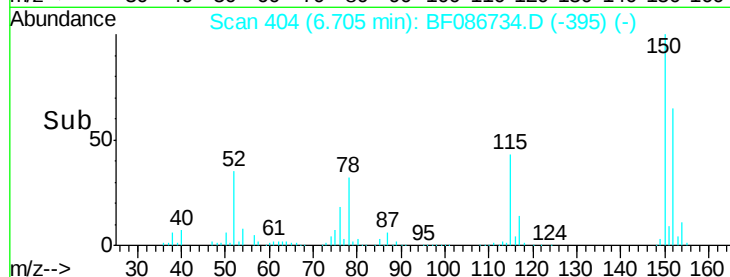
115 66.1 51.5 77.3



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: 59.26 ng

RT: 5.31 min Scan# 282

Delta R.T. -0.01 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

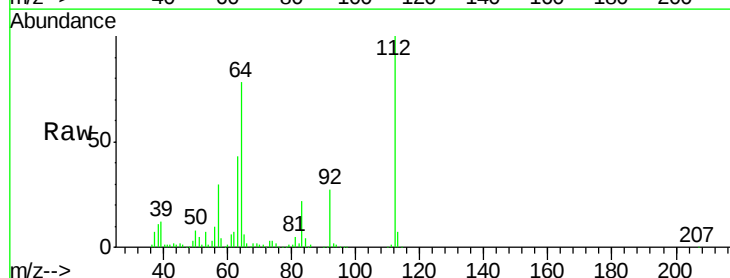
Tgt Ion:112 Resp: 632299

Ion Ratio Lower Upper

112 100

64 78.1 52.1 78.1

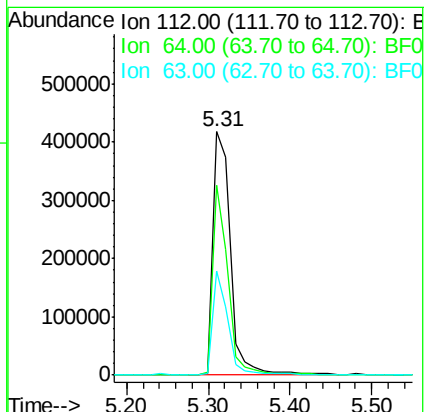
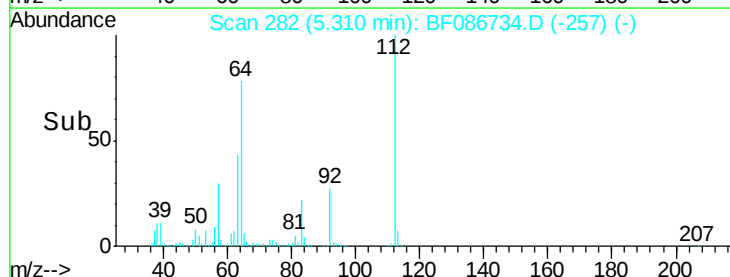
63 42.7 25.7 38.5

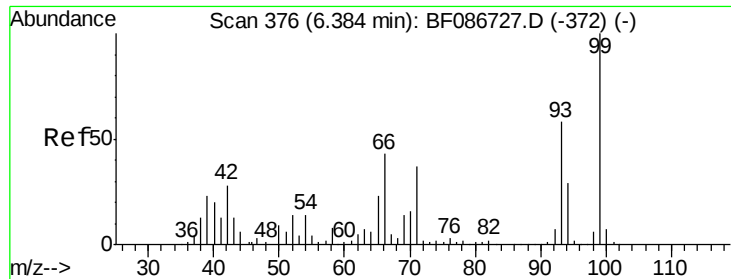


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 34.98 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.01 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

Instrument :

BNA\_F

ClientSampleId :

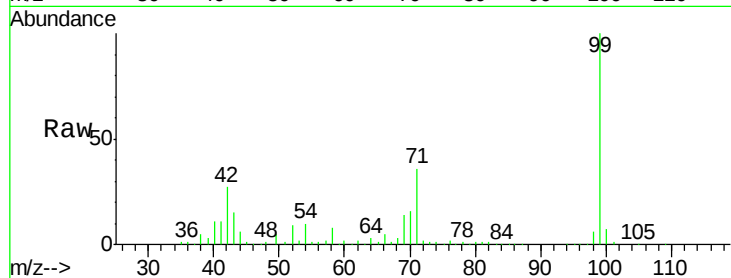
Tot Ion: 99 Resp: 502794

Ion Ratio Lower Upper

99 100

42 27.1 13.6 20.4#

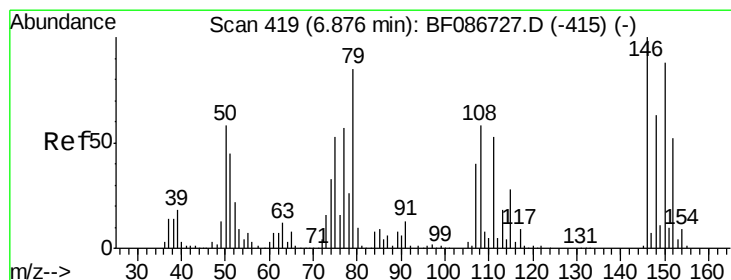
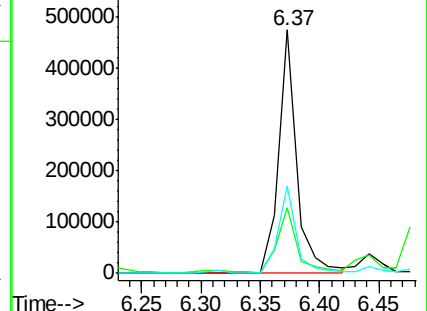
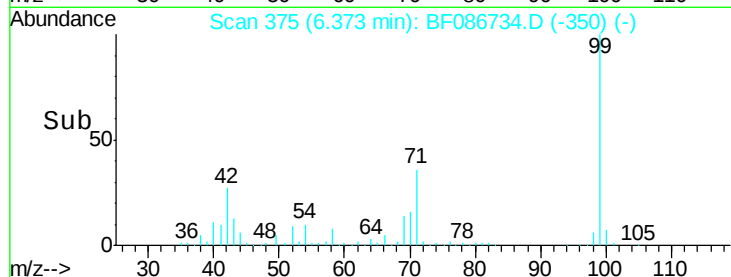
71 35.9 24.6 36.8



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: 3.65 ng

RT: 6.86 min Scan# 418

Delta R.T. -0.01 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

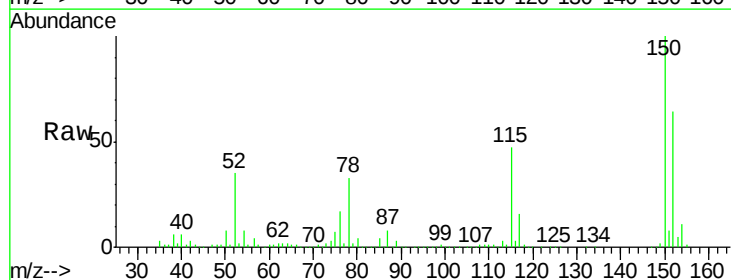
Tgt Ion: 79 Resp: 33912

Ion Ratio Lower Upper

79 100

108 34.3 68.4 102.6#

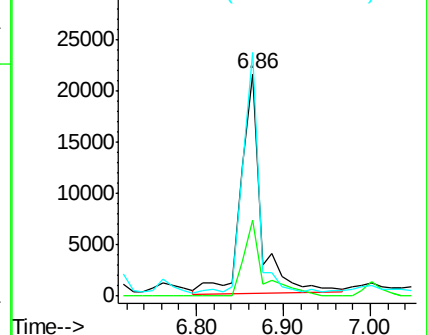
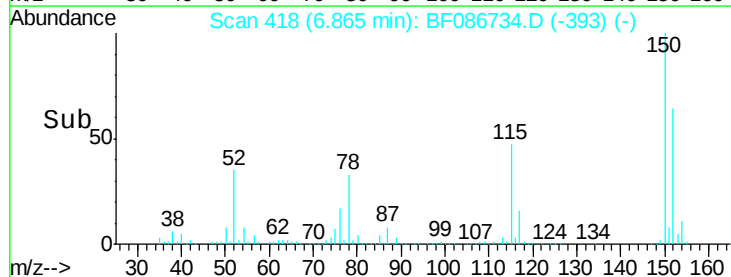
77 109.5 50.6 76.0#

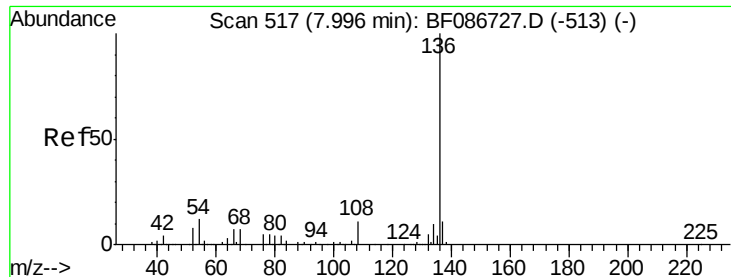


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0





#21

Naphthalene-d8

Concen: 40.00 ng

RT: 8.00 min Scan# 517

Delta R.T. 0.00 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 740764

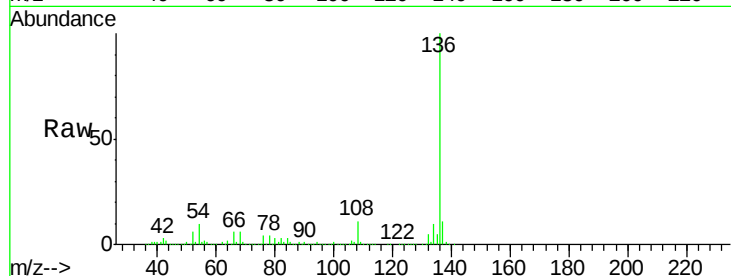
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 9.8 5.0 7.4#

68 5.5 4.4 6.6

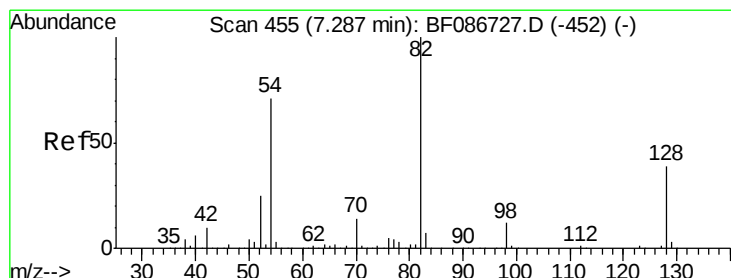
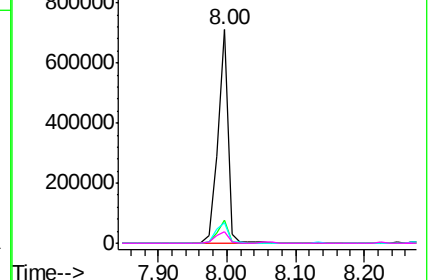
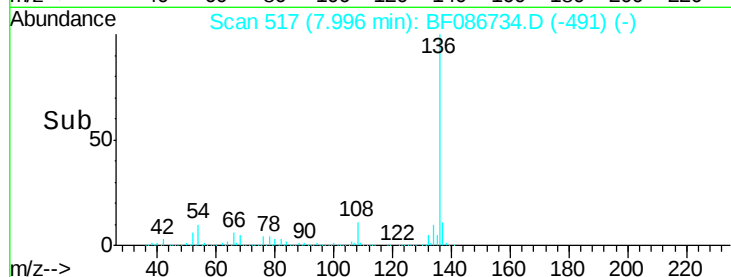


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 93.73 ng

RT: 7.29 min Scan# 455

Delta R.T. 0.00 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

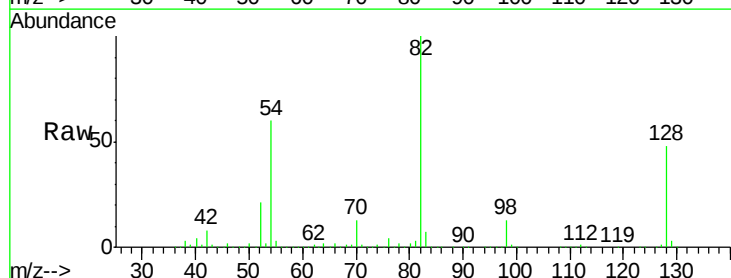
Tgt Ion: 82 Resp: 1351191

Ion Ratio Lower Upper

82 100

128 47.6 40.6 61.0

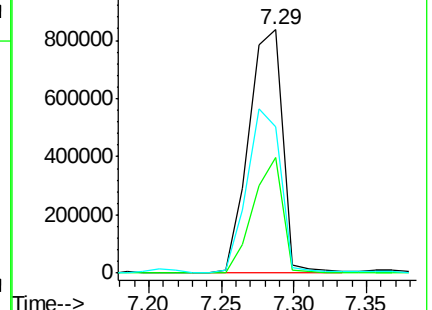
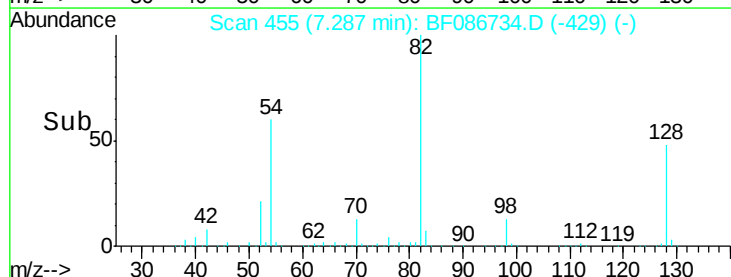
54 60.3 38.1 57.1#

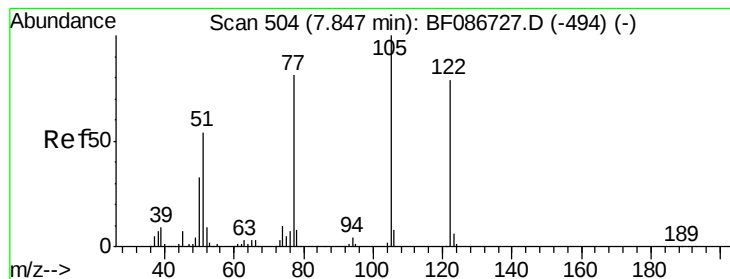


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#32

Benzoic acid

Concen: 13.90 ng

RT: 7.79 min Scan# 499

Delta R.T. -0.06 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

Instrument :

BNA\_F

ClientSampleId :

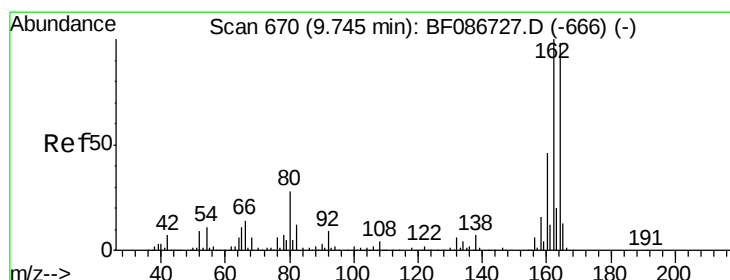
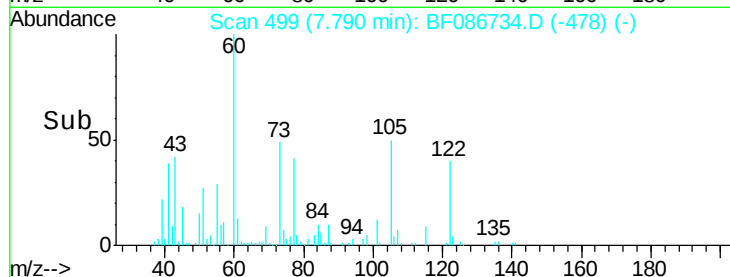
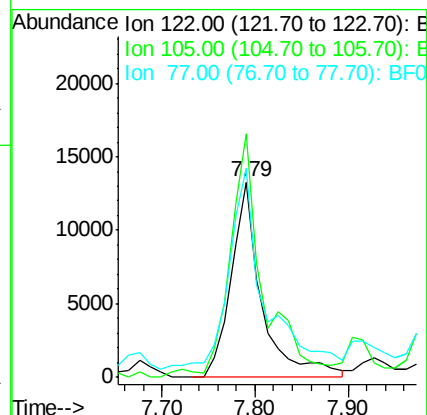
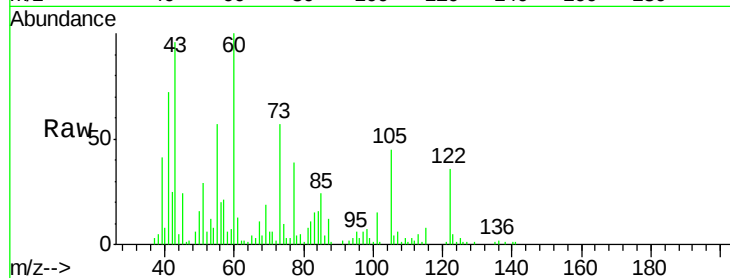
Tot Ion:122 Resp: 30310

Ion Ratio Lower Upper

122 100

105 124.6 92.6 132.6

77 106.7 60.0 100.0#



#38

Acenaphthene-d10

Concen: 40.00 ng

RT: 9.74 min Scan# 670

Delta R.T. 0.00 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

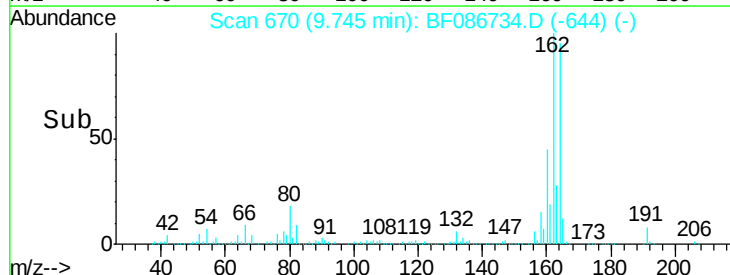
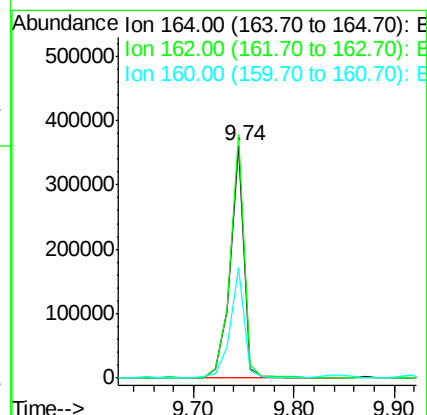
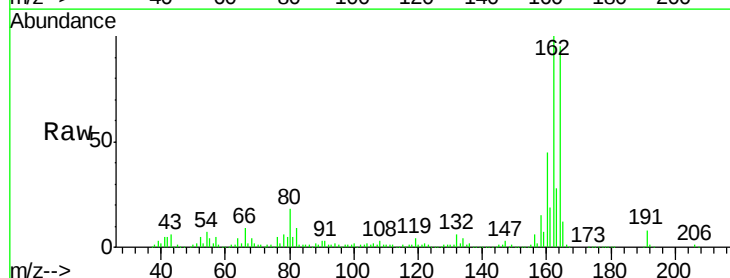
Tgt Ion:164 Resp: 341229

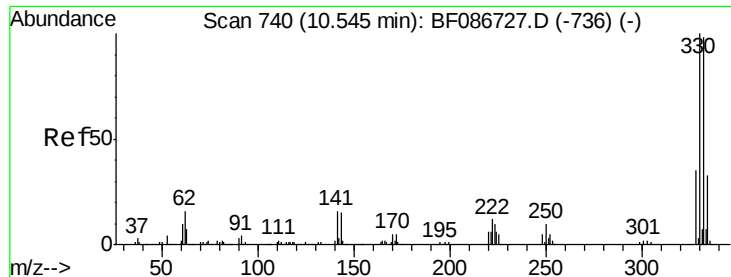
Ion Ratio Lower Upper

164 100

162 104.8 82.8 124.2

160 47.7 36.9 55.3

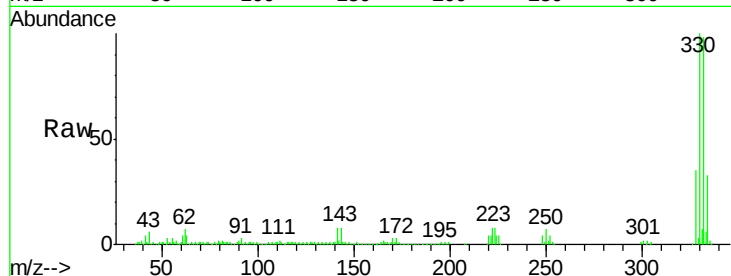




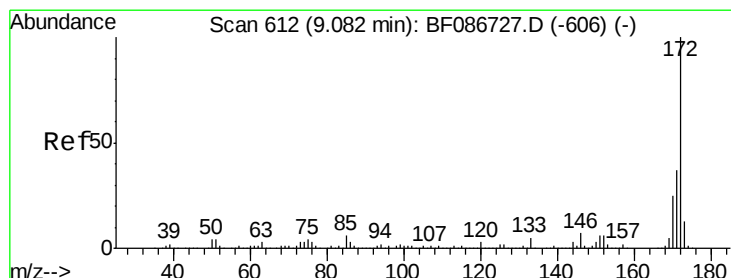
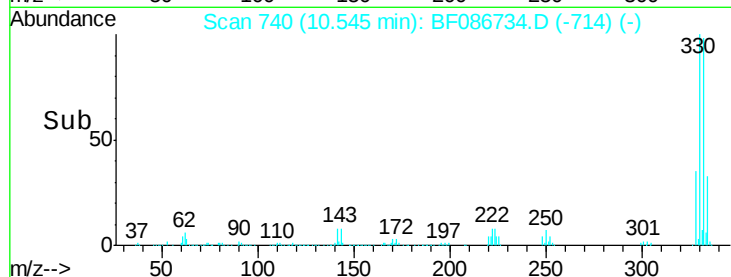
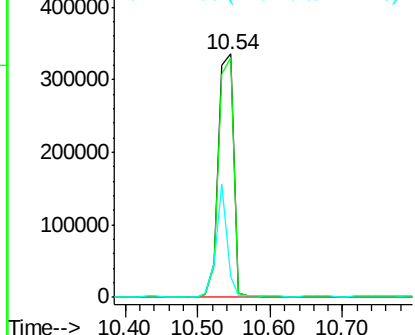
#41  
 2,4,6-Tribromophenol  
 Concen: 148.37 ng  
 RT: 10.54 min Scan# 740  
 Delta R.T. 0.00 min  
 Lab File: BF086734.D  
 Acq: 6 May 2016 20:04

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 79.0  | 118.4 |
| 141     | 32.6  | 31.2  | 46.8  |

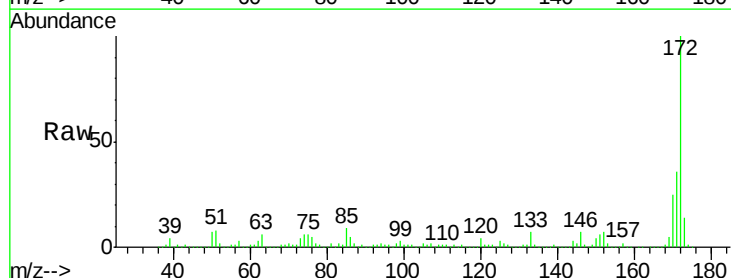


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

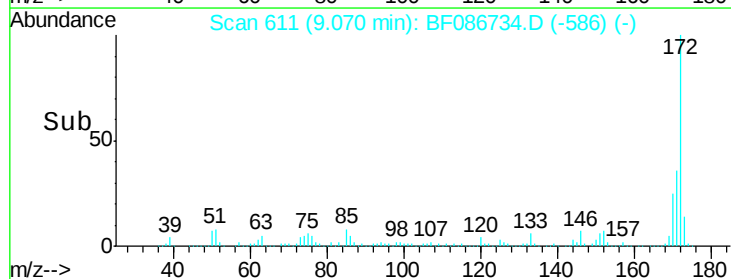
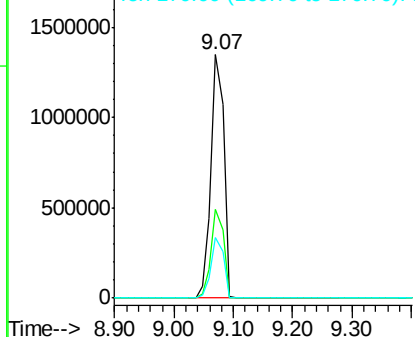


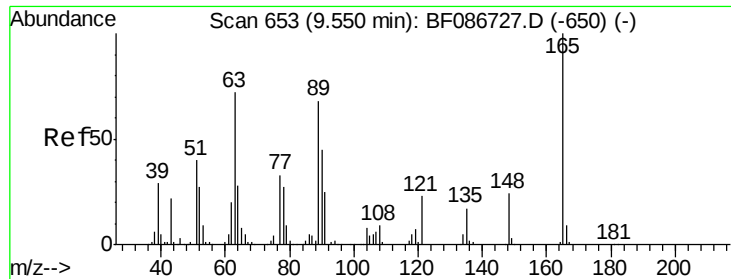
#44  
 2-Fluorobiphenyl  
 Concen: 97.89 ng  
 RT: 9.07 min Scan# 611  
 Delta R.T. -0.01 min  
 Lab File: BF086734.D  
 Acq: 6 May 2016 20:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.0  | 43.6  |
| 170     | 24.8  | 19.8  | 29.8  |



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

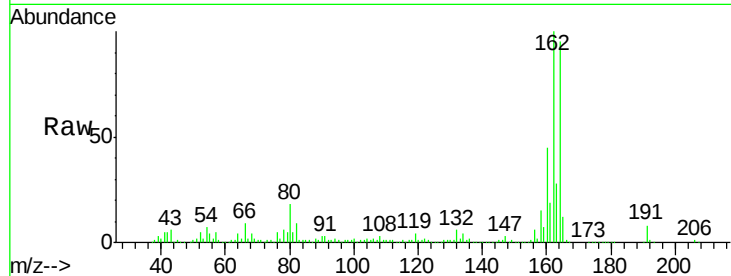




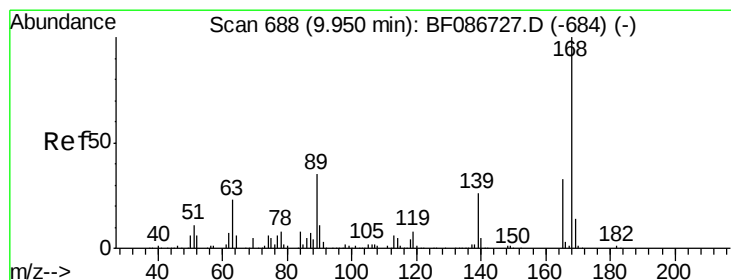
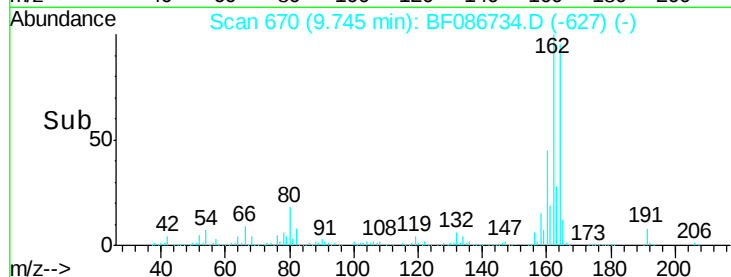
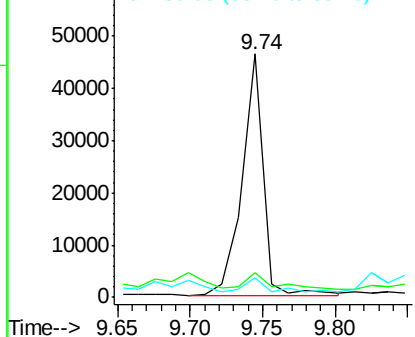
#50  
 2,6-Dinitrotoluene  
 Concen: 8.51 ng  
 RT: 9.74 min Scan# 670  
 Delta R.T. 0.19 min  
 Lab File: BF086734.D  
 Acq: 6 May 2016 20:04

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 46436  
 Ion Ratio Lower Upper  
 165 100  
 63 10.2 51.8 77.8#  
 89 8.1 50.7 76.1#

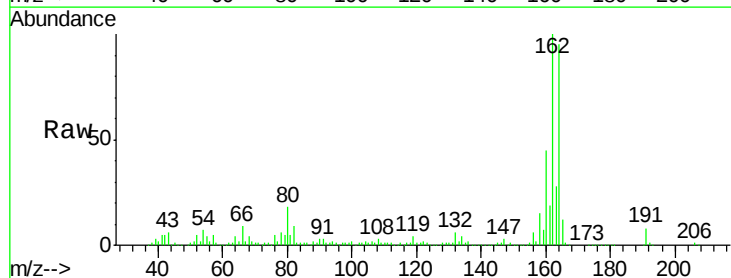


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

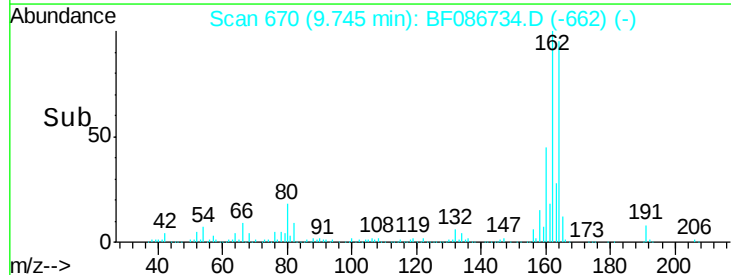
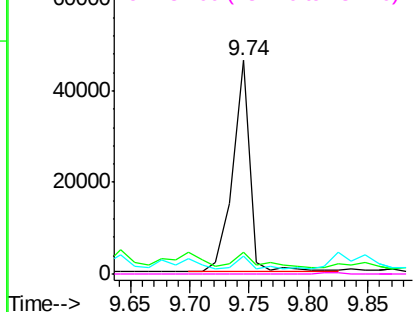


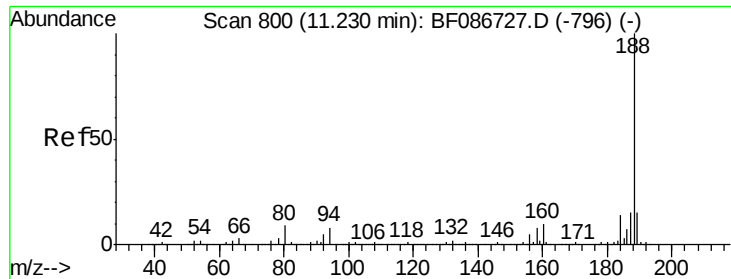
#56  
 2,4-Dinitrotoluene  
 Concen: 6.96 ng  
 RT: 9.74 min Scan# 670  
 Delta R.T. -0.21 min  
 Lab File: BF086734.D  
 Acq: 6 May 2016 20:04

Tgt Ion:165 Resp: 47064  
 Ion Ratio Lower Upper  
 165 100  
 63 10.2 44.3 66.5#  
 89 8.1 70.0 105.0#  
 182 0.0 1.8 2.6#



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  
 Ion 182.00 (181.70 to 182.70): E





#63

Phenanthrene-d10

Concen: 40.00 ng

RT: 11.22 min Scan# 799

Delta R.T. -0.01 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

Instrument :

BNA\_F

ClientSampleId :

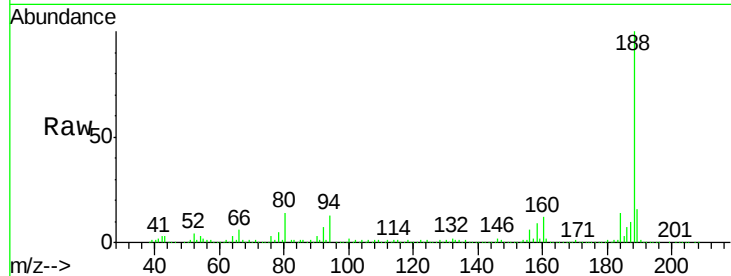
Tot Ion:188 Resp: 539397

Ion Ratio Lower Upper

188 100

94 12.5 6.8 10.2#

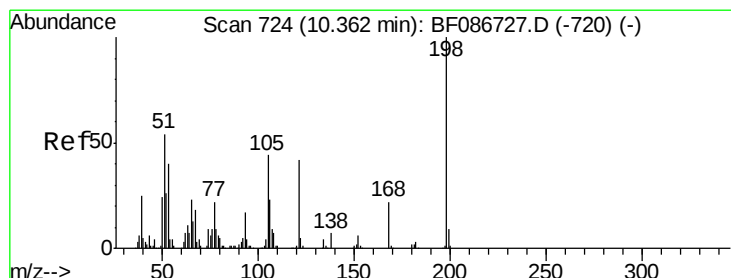
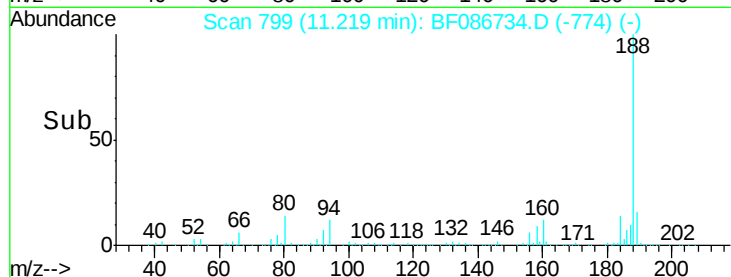
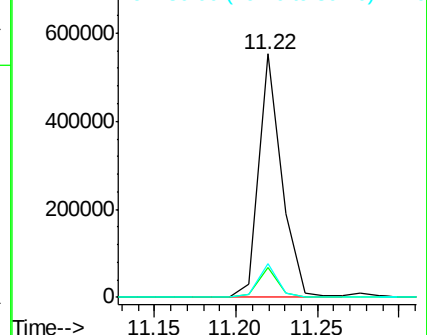
80 14.0 7.1 10.7#



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: 5.68 ng

RT: 10.53 min Scan# 739

Delta R.T. 0.17 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

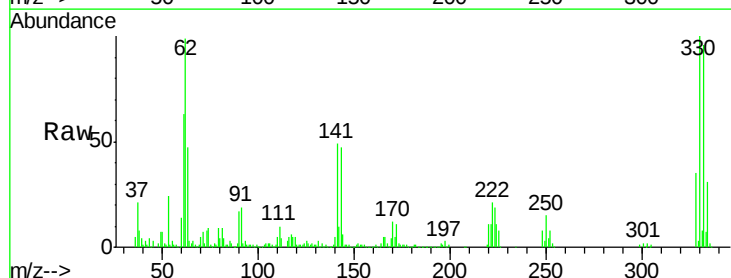
Tgt Ion:198 Resp: 1116

Ion Ratio Lower Upper

198 100

51 422.9 20.5 60.5#

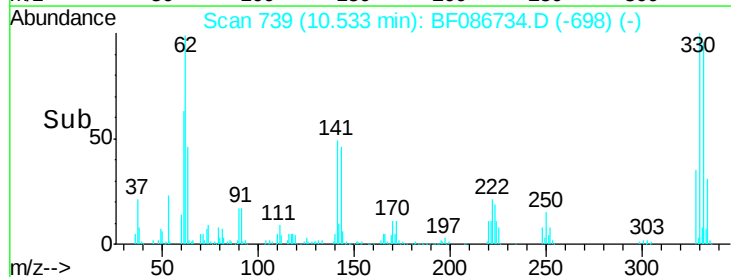
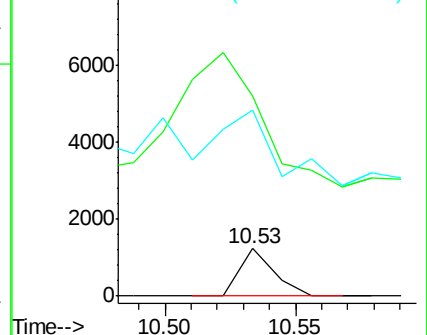
105 394.4 24.5 64.5#

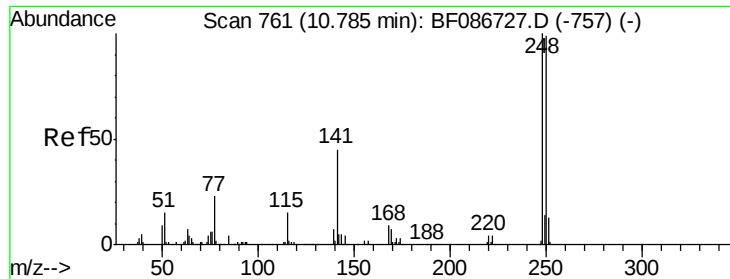


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

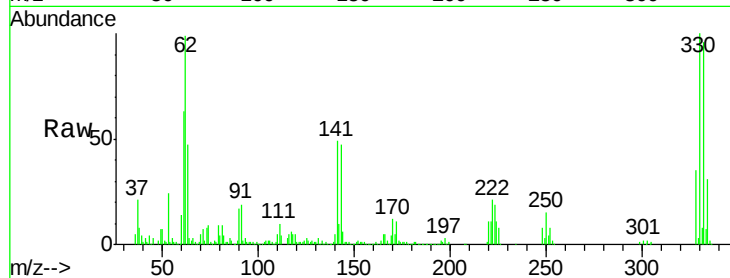




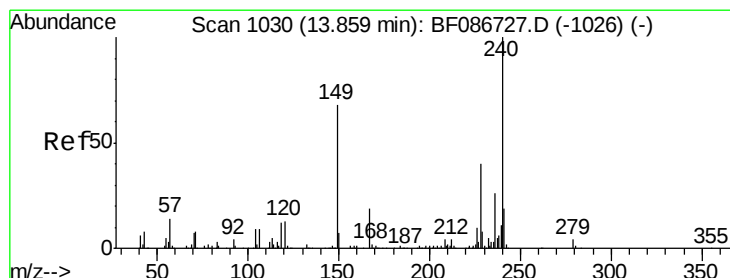
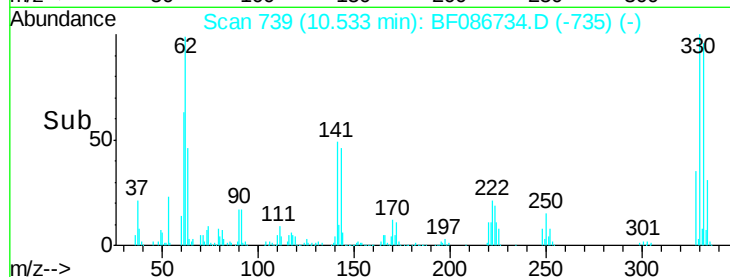
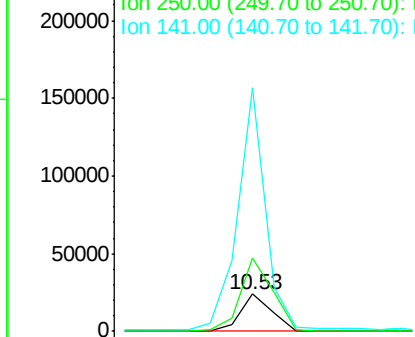
#66  
4-Bromophenyl-phenylether  
Concen: 5.32 ng  
RT: 10.53 min Scan# 739  
Delta R.T. -0.25 min  
Lab File: BF086734.D  
Acq: 6 May 2016 20:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 28505  
Ion Ratio Lower Upper  
248 100  
250 195.0 78.6 117.8#  
141 652.4 76.0 114.0#

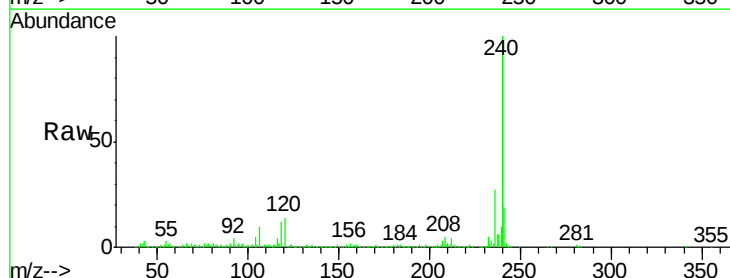


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

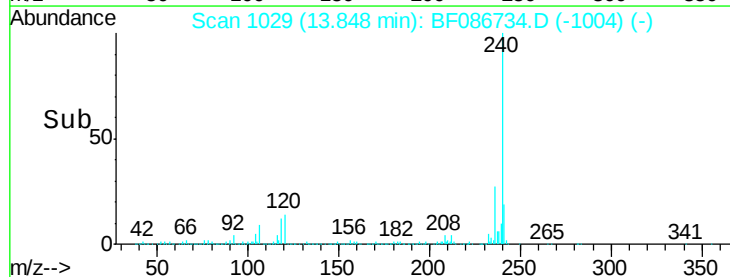
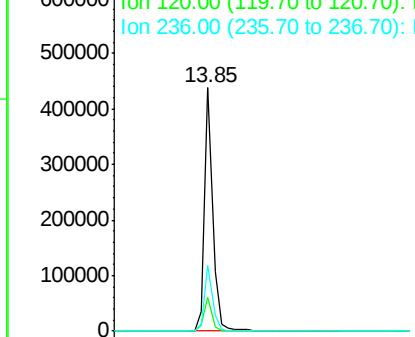


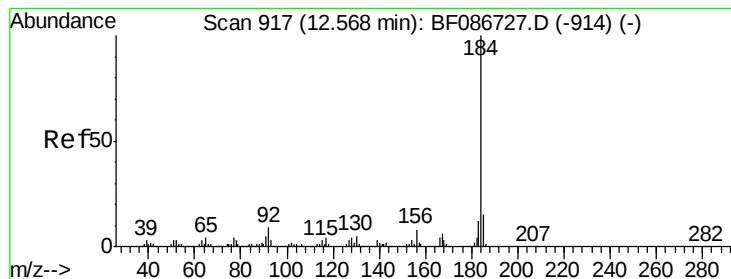
#75  
Chrysene-d12  
Concen: 40.00 ng  
RT: 13.85 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: BF086734.D  
Acq: 6 May 2016 20:04

Tgt Ion:240 Resp: 423628  
Ion Ratio Lower Upper  
240 100  
120 13.8 11.2 16.8  
236 26.9 21.2 31.8



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





#76

Benzidine

Concen: 7.18 ng

RT: 12.67 min Scan# 926

Delta R.T. 0.10 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

Instrument :

BNA\_F

ClientSampleId :

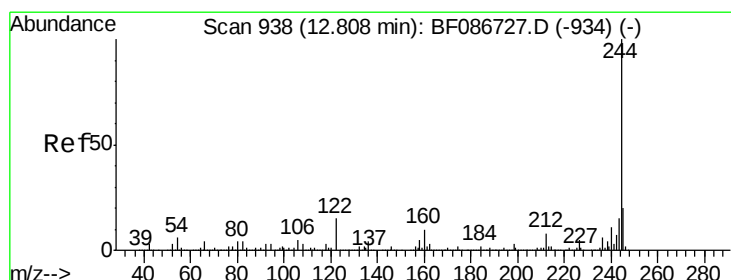
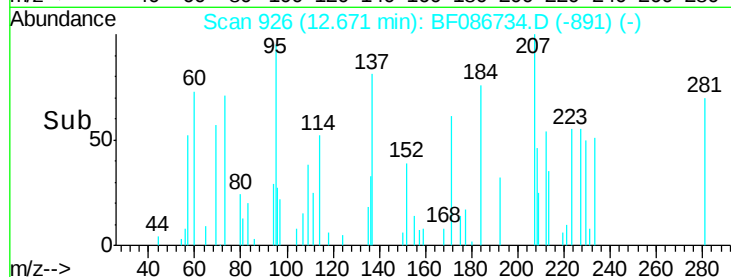
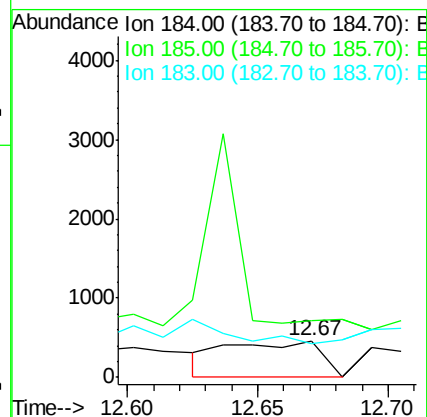
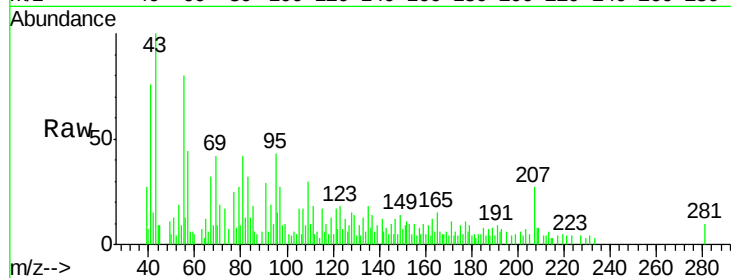
Tot Ion:184 Resp: 1137

Ion Ratio Lower Upper

184 100

185 153.7 13.6 20.4#

183 92.4 9.8 14.6#



#78

Terphenyl-d14

Concen: 68.57 ng

RT: 12.81 min Scan# 938

Delta R.T. 0.00 min

Lab File: BF086734.D

Acq: 6 May 2016 20:04

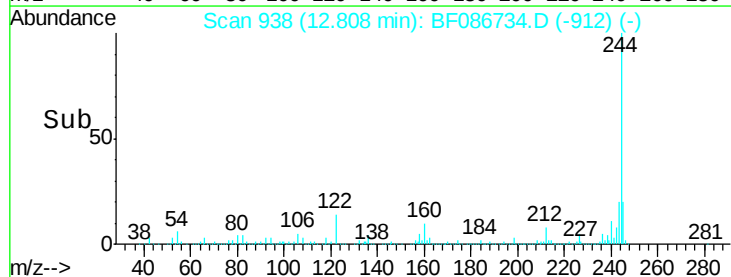
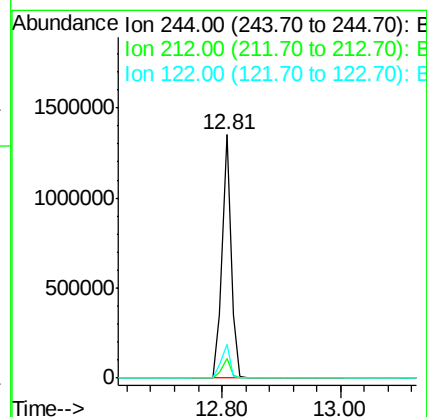
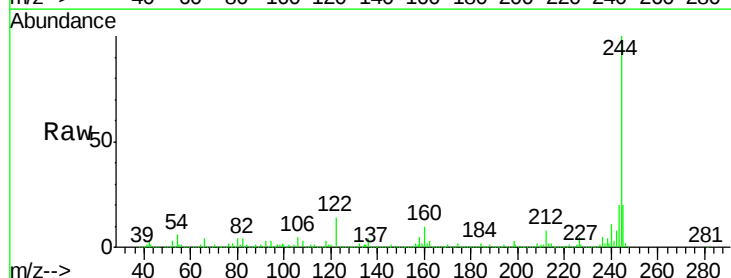
Tgt Ion:244 Resp: 1437402

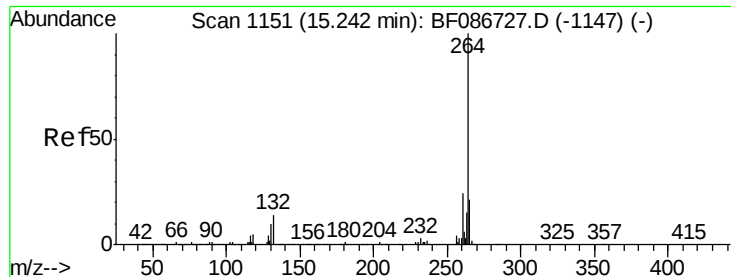
Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

122 14.0 12.0 18.0

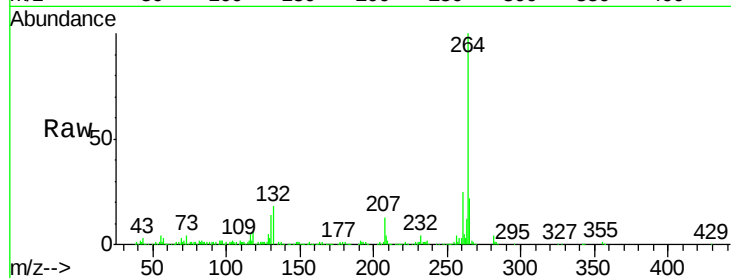




#86  
 Pervlene-d12  
 Concen: 40.00 ng  
 RT: 15.23 min Scan# 1150  
 Delta R.T. -0.01 min  
 Lab File: BF086734.D  
 Acq: 6 May 2016 20:04

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.5  | 29.3  |
| 265     | 22.0  | 17.3  | 25.9  |



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

