

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF050616\  
 Data File : BF086770.D  
 Acq On : 7 May 2016 13:19  
 Operator : UM/SJ  
 Sample : H2858-03  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MWHR(3-8)

Quant Time: May 07 23:45:06 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 04 15:12:53 2016  
 Response via : Initial Calibration

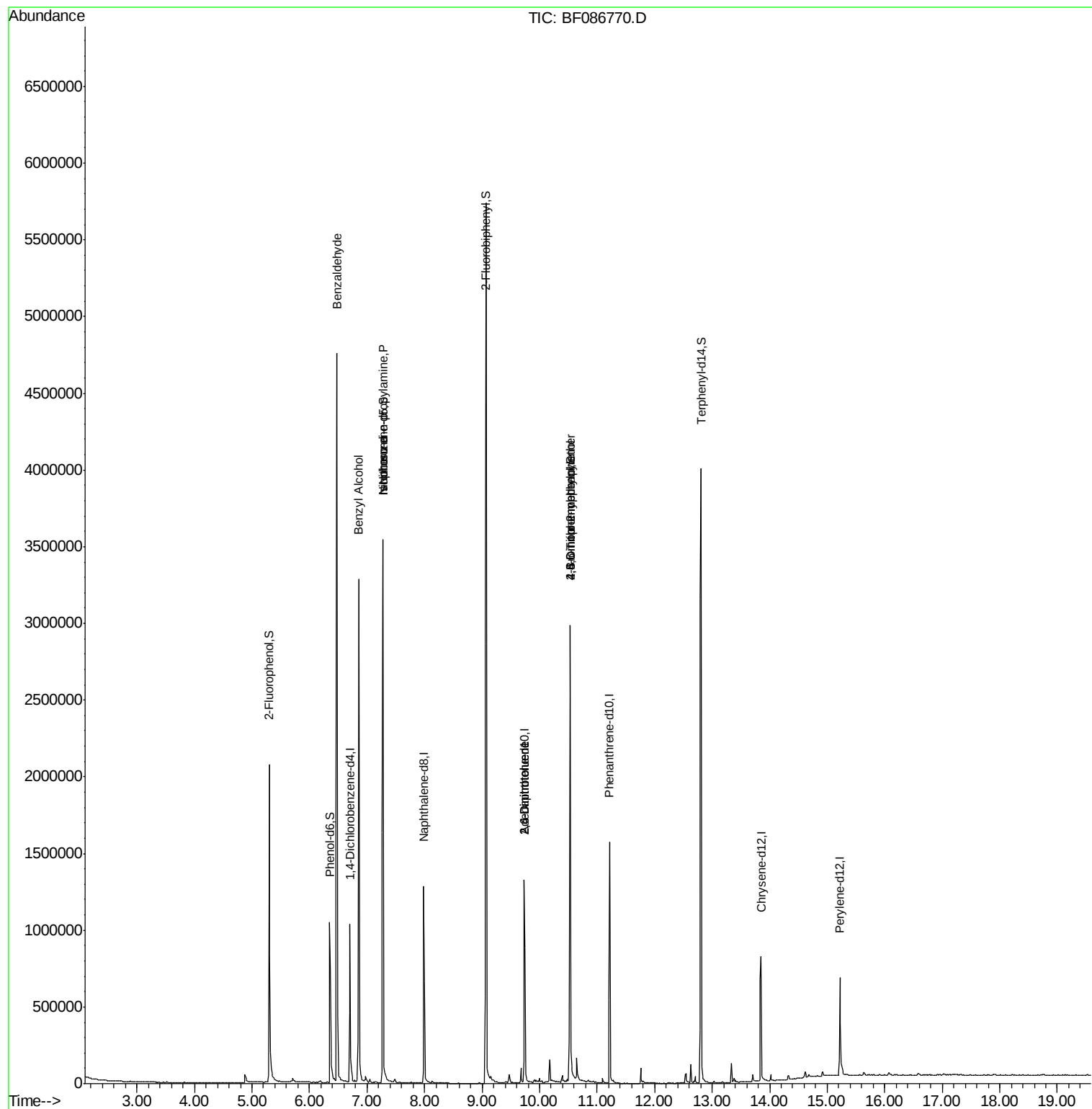
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.70  | 152  | 173699   | 40.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 7.98  | 136  | 704380   | 40.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.73  | 164  | 339353   | 40.00  | ng    | -0.05    |
| 63) Phenanthrene-d10           | 11.22 | 188  | 634696   | 40.00  | ng    | -0.03    |
| 75) Chrysene-d12               | 13.85 | 240  | 417095   | 40.00  | ng    | -0.03    |
| 86) Perylene-d12               | 15.22 | 264  | 311785   | 40.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.30  | 112  | 604216   | 57.59  | ng    | -0.02    |
| 7) Phenol-d6                   | 6.35  | 99   | 503235   | 35.61  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.28  | 82   | 1259606  | 91.89  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.53 | 330  | 537231   | 161.83 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 9.07  | 172  | 2094704  | 101.18 | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.81 | 244  | 1695971  | 82.18  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 9) Benzaldehyde                | 6.48  | 77   | 32909    | 4.67   | ng    | # 74     |
| 15) Benzyl Alcohol             | 6.85  | 79   | 21575    | 2.36   | ng    | # 40     |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70   | 179812   | 18.62  | ng    | # 73     |
| 25) Isophorone                 | 7.28  | 82   | 1212198  | 47.49  | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 9.73  | 165  | 42125    | 7.76   | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 9.73  | 165  | 42129    | 6.26   | ng    | # 16     |
| 64) 4,6-Dinitro-2-methylphenol | 10.53 | 198  | 1309     | 5.68   | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.53 | 248  | 32332    | 5.13   | ng    | # 1      |

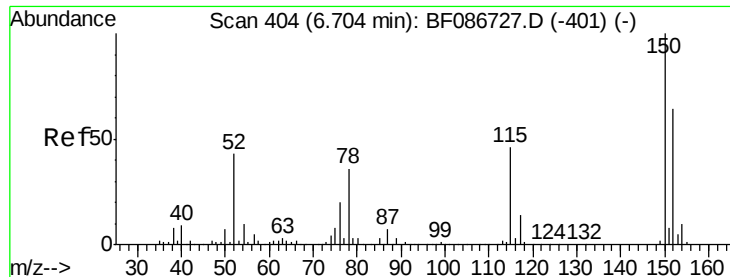
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF050616\  
Data File : BF086770.D  
Acq On : 7 May 2016 13:19  
Operator : UM/SJ  
Sample : H2858-03  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MWHHR(3-8)

Quant Time: May 07 23:45:06 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 04 15:12:53 2016  
Response via : Initial Calibration



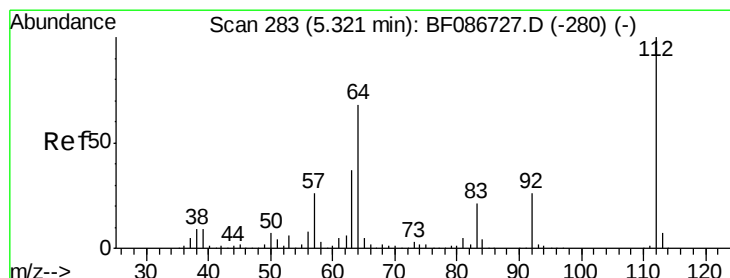
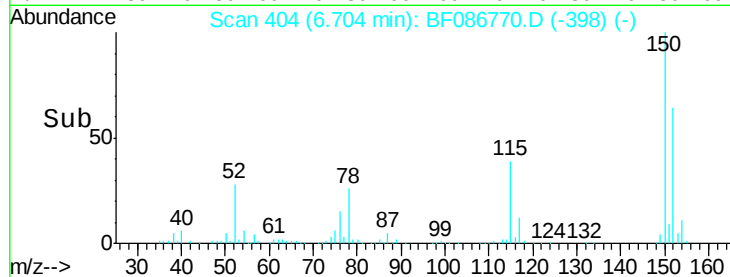
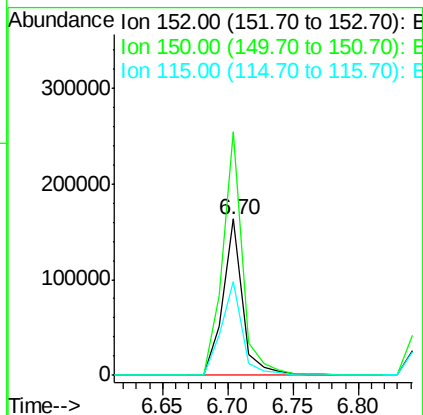
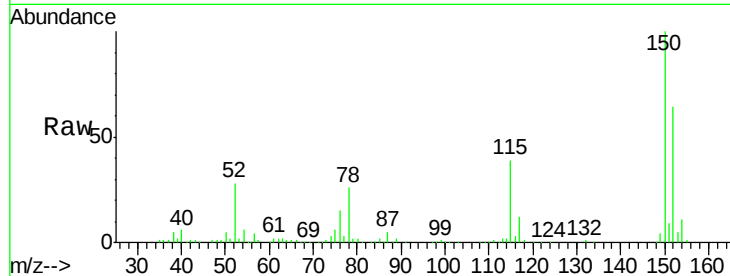


#1

1,4-Dichlorobenzene-d4  
Concen: 40.00 ng  
RT: 6.70 min Scan# 404  
Delta R.T. -0.03 min  
Lab File: BF086770.D  
Acq: 7 May 2016 13:19

Instrument :  
BNA\_F  
ClientSampleId :  
MWHHR(3-8)

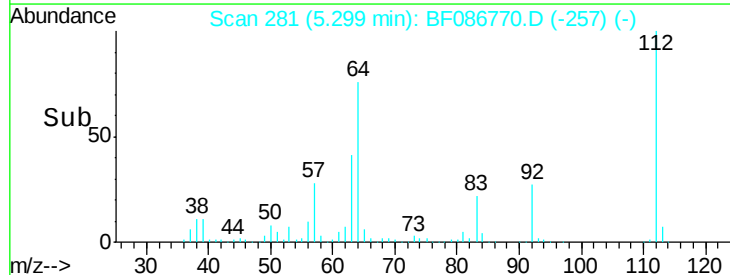
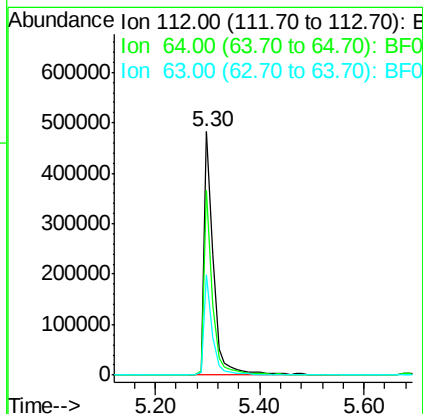
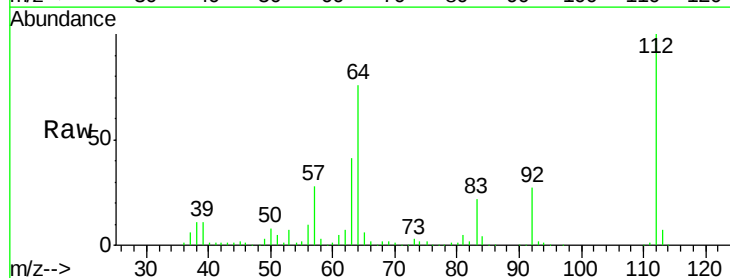
Tgt Ion:152 Resp: 173699  
Ion Ratio Lower Upper  
152 100  
150 156.1 125.8 188.6  
115 60.3 51.5 77.3

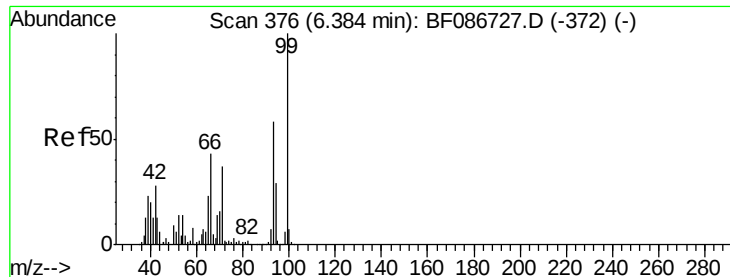


#5

2-Fluorophenol  
Concen: 57.59 ng  
RT: 5.30 min Scan# 281  
Delta R.T. -0.02 min  
Lab File: BF086770.D  
Acq: 7 May 2016 13:19

Tgt Ion:112 Resp: 604216  
Ion Ratio Lower Upper  
112 100  
64 75.9 52.1 78.1  
63 41.1 25.7 38.5#





#7

Phenol-d6

Concen: 35.61 ng

RT: 6.35 min Scan# 373

Delta R.T. -0.02 min

Lab File: BF086770.D

Acq: 7 May 2016 13:19

Instrument :

BNA\_F

ClientSampleId :

MWHR(3-8)

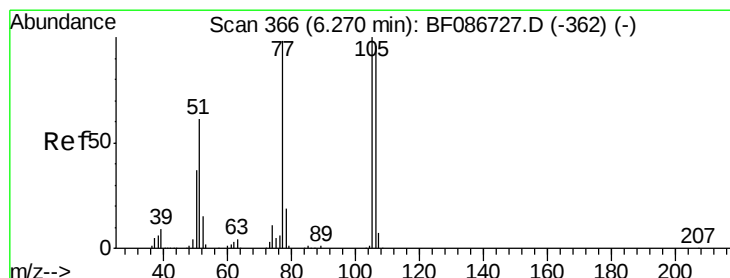
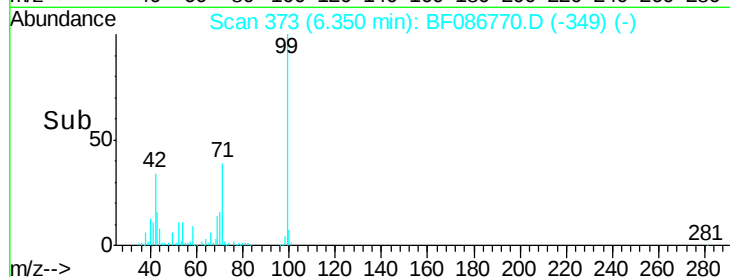
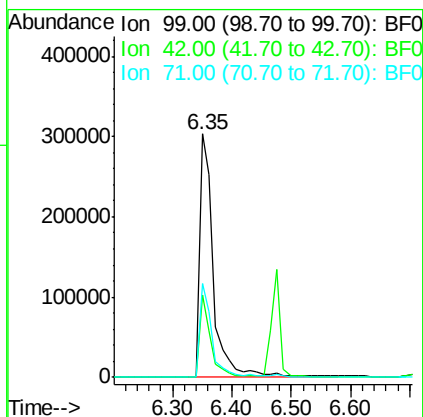
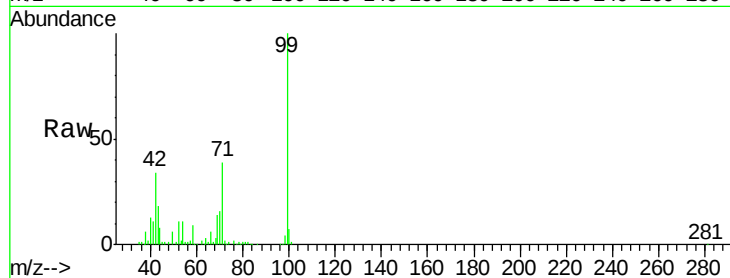
Tgt Ion: 99 Resp: 503235

Ion Ratio Lower Upper

99 100

42 34.0 13.6 20.4#

71 38.8 24.6 36.8#



#9

Benzaldehyde

Concen: 4.67 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.19 min

Lab File: BF086770.D

Acq: 7 May 2016 13:19

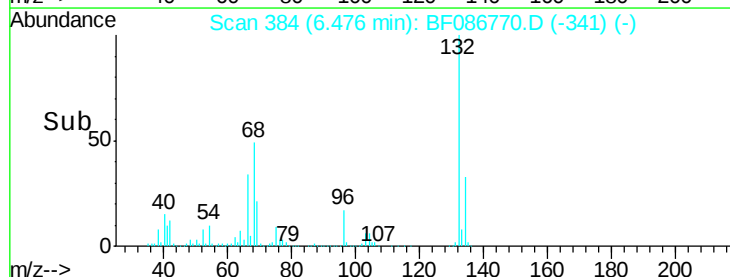
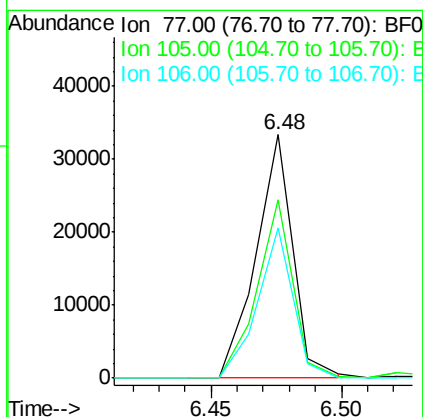
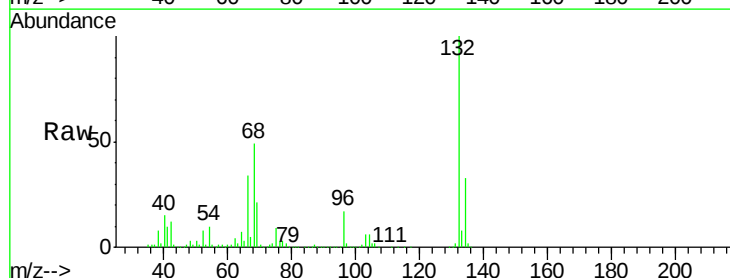
Tgt Ion: 77 Resp: 32909

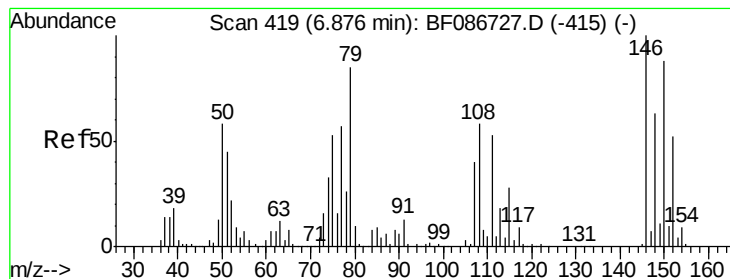
Ion Ratio Lower Upper

77 100

105 73.3 72.7 112.7

106 61.5 70.8 110.8#





#15

Benzyl Alcohol

Concen: 2.36 ng

RT: 6.85 min Scan# 417

Delta R.T. -0.03 min

Lab File: BF086770.D

Acq: 7 May 2016 13:19

Instrument :

BNA\_F

ClientSampled :

MWHR(3-8)

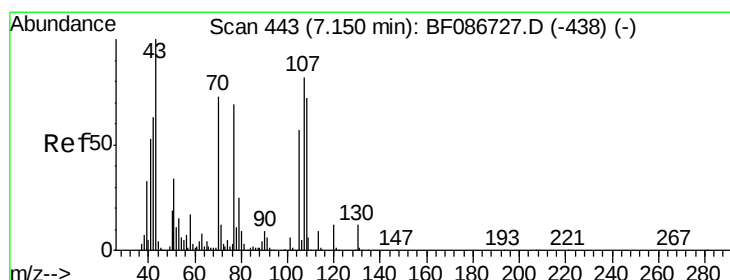
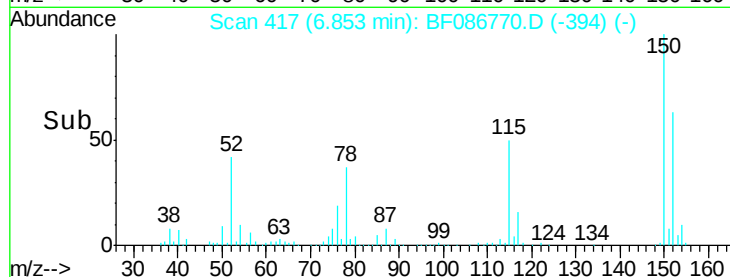
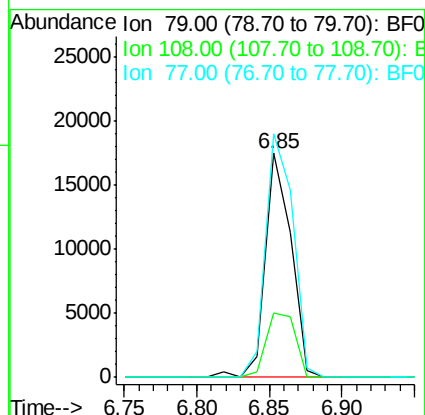
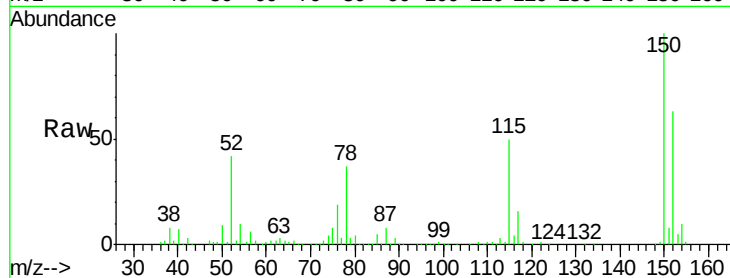
Tgt Ion: 79 Resp: 21575

Ion Ratio Lower Upper

79 100

108 29.0 68.4 102.6#

77 108.6 50.6 76.0#



#19

n-Nitroso-di-n-propylamine

Concen: 18.62 ng

RT: 7.28 min Scan# 454

Delta R.T. 0.11 min

Lab File: BF086770.D

Acq: 7 May 2016 13:19

Tgt Ion: 70 Resp: 179812

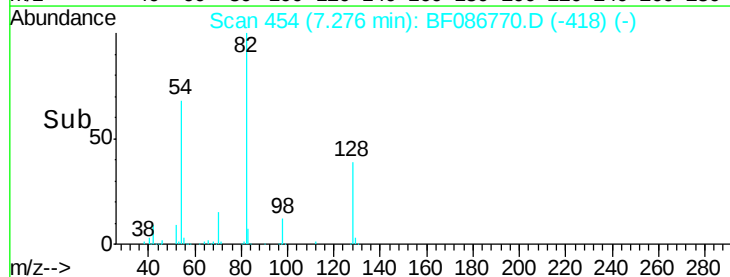
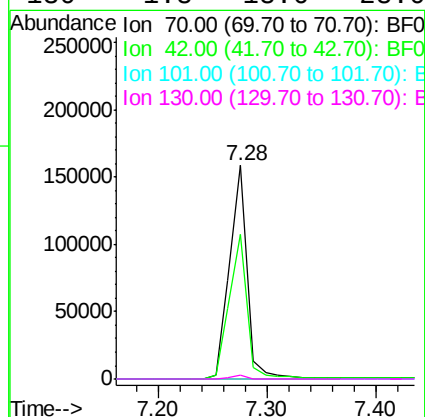
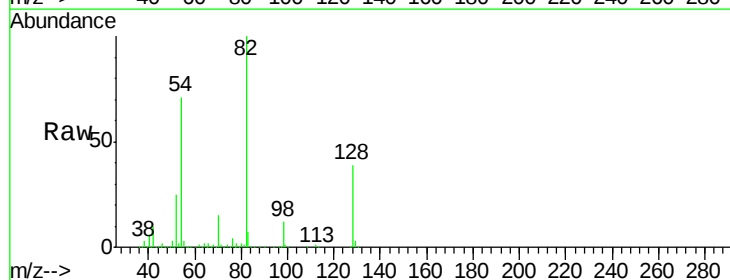
Ion Ratio Lower Upper

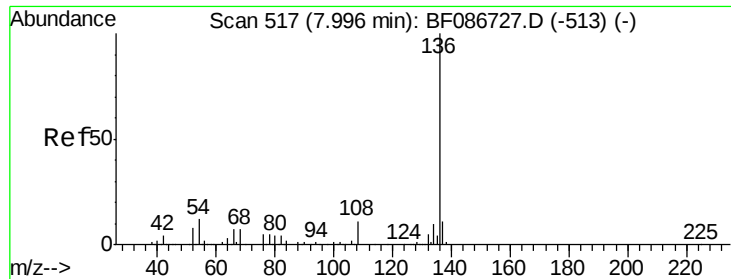
70 100

42 67.6 43.1 64.7#

101 0.0 8.1 12.1#

130 1.8 18.6 28.0#





#21

Naphthalene-d8

Concen: 40.00 ng

RT: 7.98 min Scan# 516

Delta R.T. -0.05 min

Lab File: BF086770.D

Acq: 7 May 2016 13:19

Instrument :

BNA\_F

ClientSampleId :

MWHR(3-8)

Tgt Ion:136 Resp: 704380

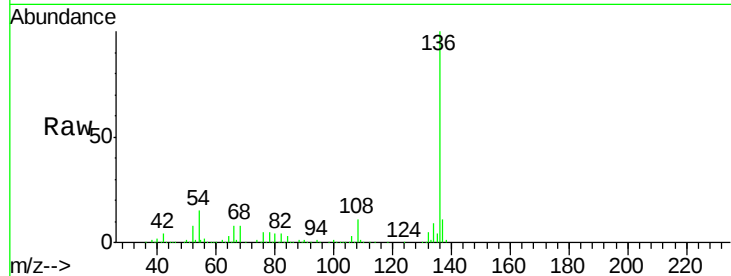
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 14.5 5.0 7.4#

68 7.5 4.4 6.6#

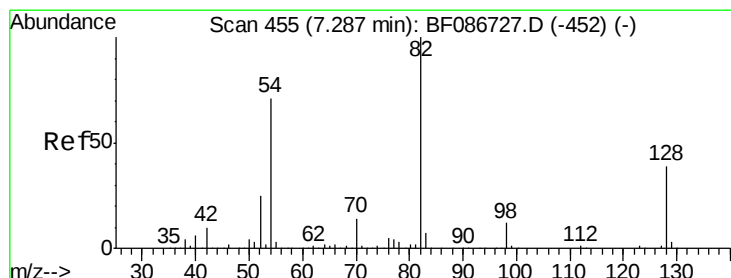
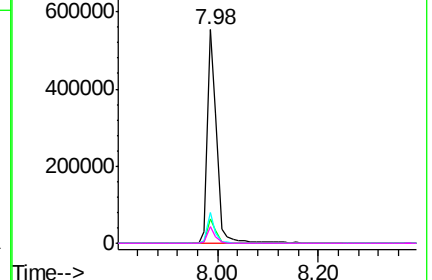
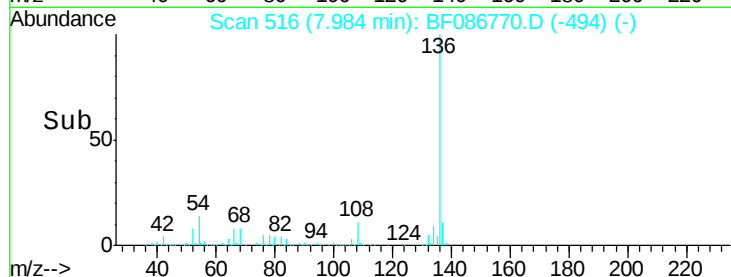


Abundance Ion 136.00 (135.70 to 136.70): E

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: 91.89 ng

RT: 7.28 min Scan# 454

Delta R.T. -0.03 min

Lab File: BF086770.D

Acq: 7 May 2016 13:19

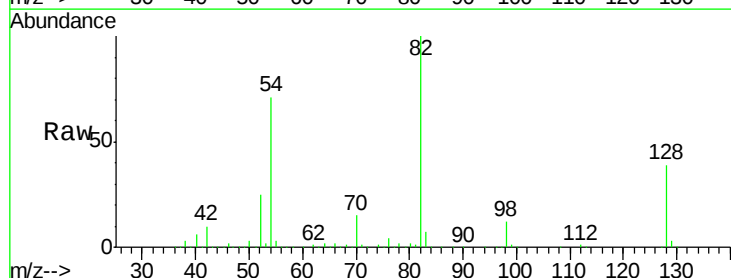
Tgt Ion: 82 Resp: 1259606

Ion Ratio Lower Upper

82 100

128 39.4 40.6 61.0#

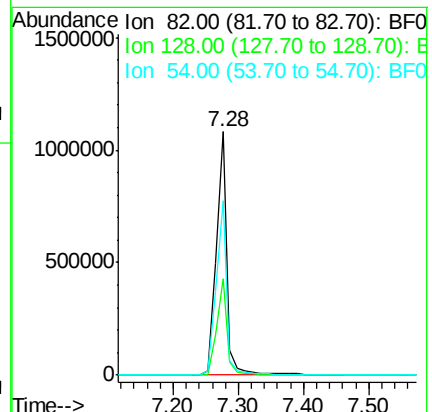
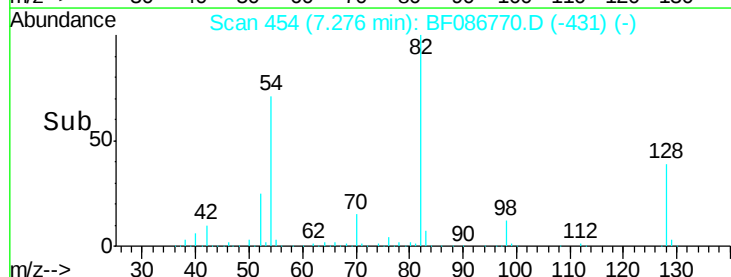
54 71.5 38.1 57.1#

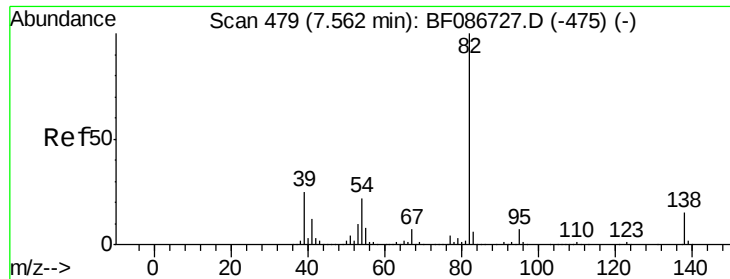


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 47.49 ng

RT: 7.28 min Scan# 454

Delta R.T. -0.30 min

Lab File: BF086770.D

Acq: 7 May 2016 13:19

Instrument :

BNA\_F

ClientSampled :

MWHR(3-8)

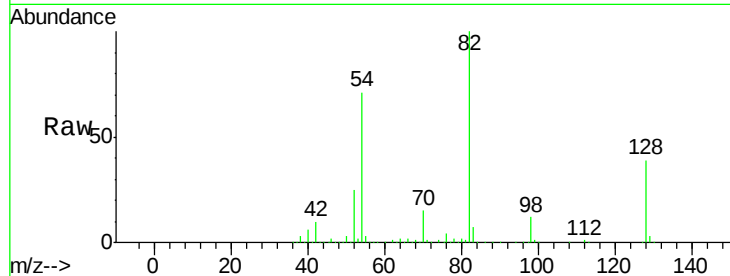
Tgt Ion: 82 Resp: 1212198

Ion Ratio Lower Upper

82 100

95 0.0 5.1 7.7#

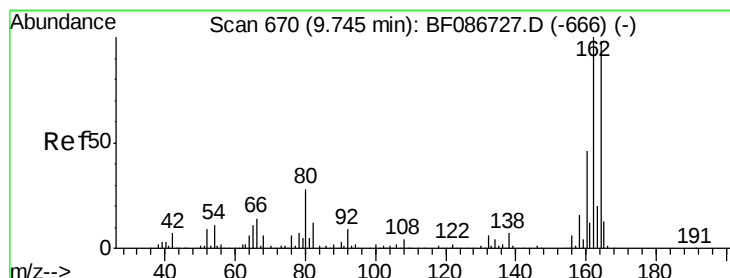
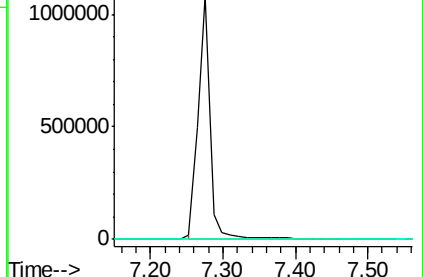
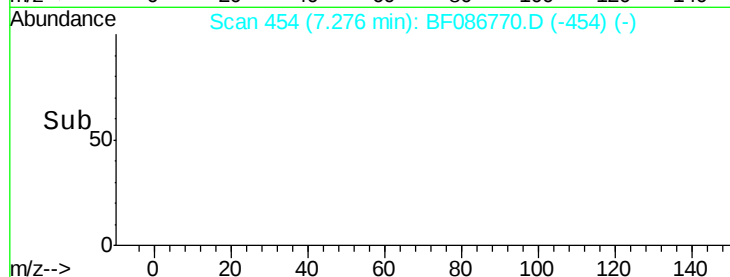
138 0.0 12.4 18.6#



Abundance Ion 82.00 (81.70 to 82.70): BF086770.D (-454) (-)

Ion 95.00 (94.70 to 95.70): BF086770.D (-454) (-)

Ion 138.00 (137.70 to 138.70): BF086770.D (-454) (-)



#38

Acenaphthene-d10

Concen: 40.00 ng

RT: 9.73 min Scan# 669

Delta R.T. -0.05 min

Lab File: BF086770.D

Acq: 7 May 2016 13:19

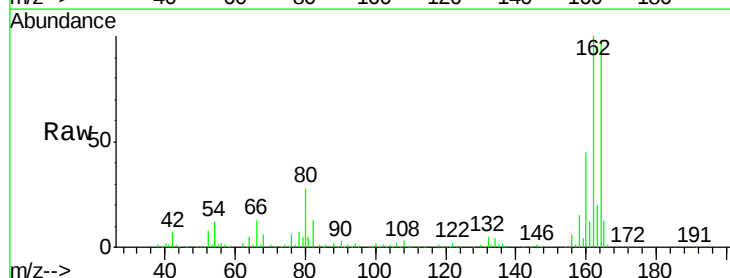
Tgt Ion: 164 Resp: 339353

Ion Ratio Lower Upper

164 100

162 102.0 82.8 124.2

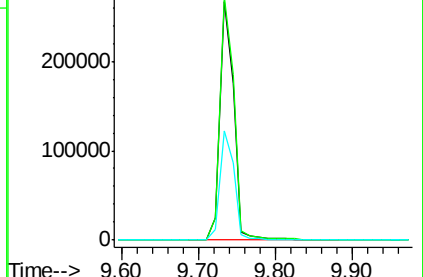
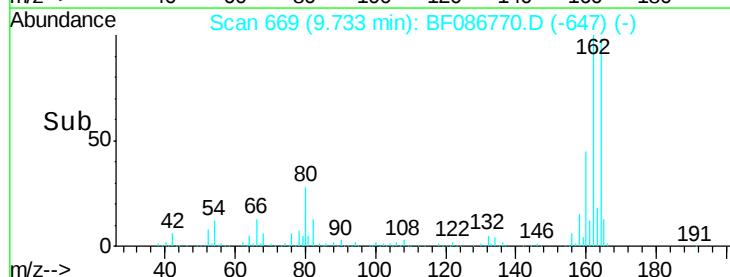
160 45.8 36.9 55.3

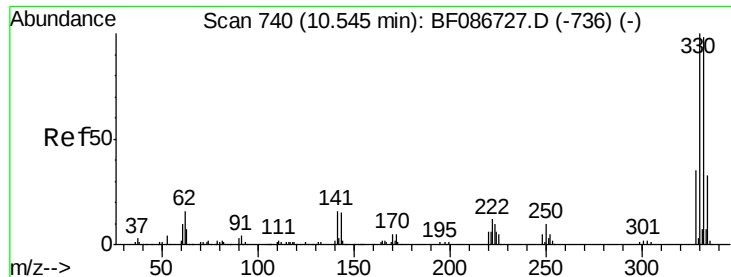


Abundance Ion 164.00 (163.70 to 164.70): BF086770.D (-647) (-)

Ion 162.00 (161.70 to 162.70): BF086770.D (-647) (-)

Ion 160.00 (159.70 to 160.70): BF086770.D (-647) (-)

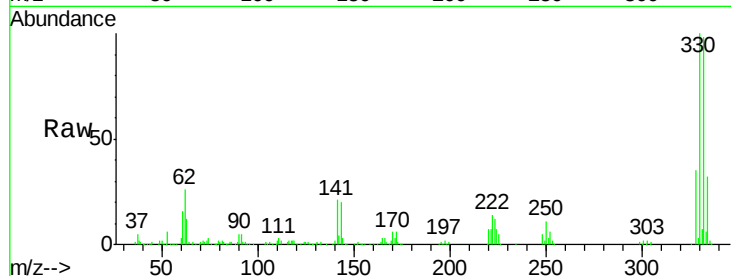




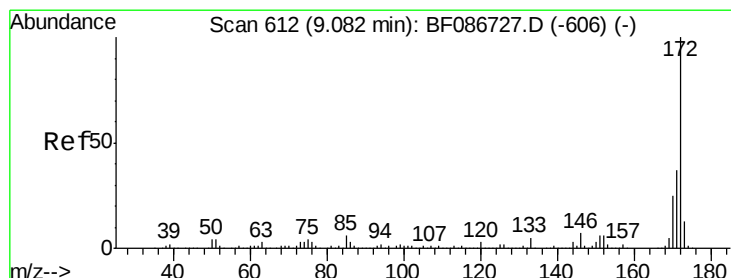
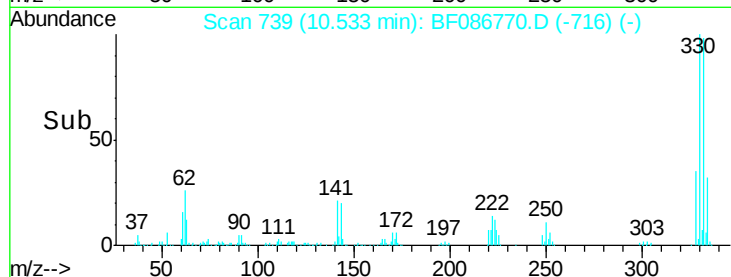
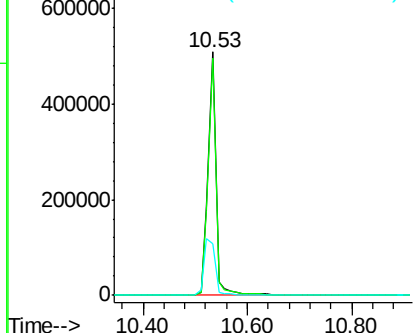
#41  
 2,4,6-Tribromophenol  
 Concen: 161.83 ng  
 RT: 10.53 min Scan# 739  
 Delta R.T. -0.03 min  
 Lab File: BF086770.D  
 Acq: 7 May 2016 13:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MWHR(3-8)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.3  | 79.0  | 118.4 |
| 141     | 34.1  | 31.2  | 46.8  |

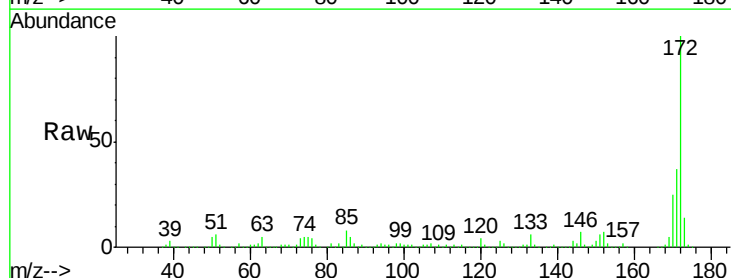


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

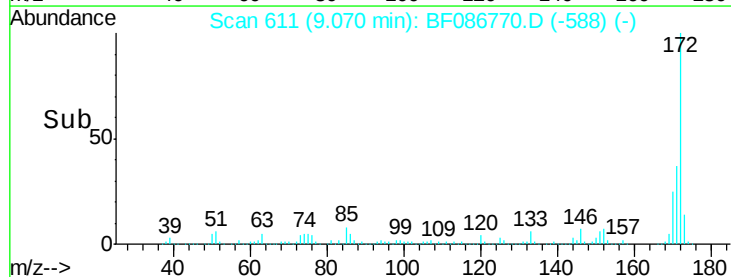
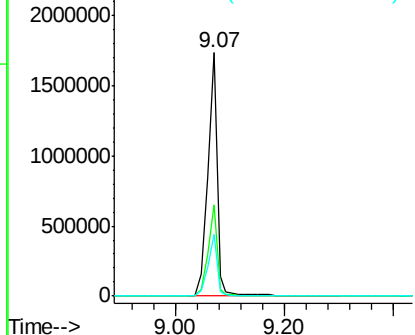


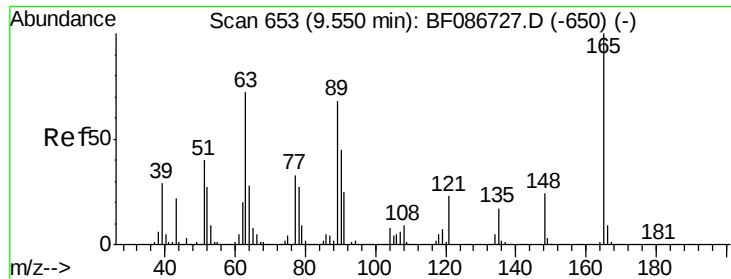
#44  
 2-Fluorobiphenyl  
 Concen: 101.18 ng  
 RT: 9.07 min Scan# 611  
 Delta R.T. -0.03 min  
 Lab File: BF086770.D  
 Acq: 7 May 2016 13:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.3  | 29.0  | 43.6  |
| 170     | 25.4  | 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

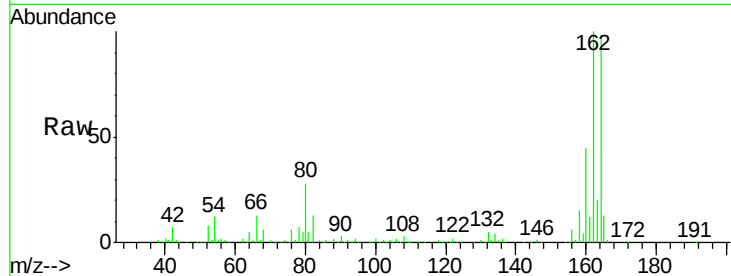




#50  
 2,6-Dinitrotoluene  
 Concen: 7.76 ng  
 RT: 9.73 min Scan# 669  
 Delta R.T. 0.16 min  
 Lab File: BF086770.D  
 Acq: 7 May 2016 13:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MWHR(3-8)

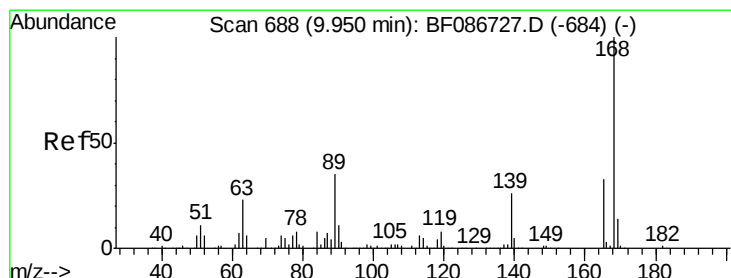
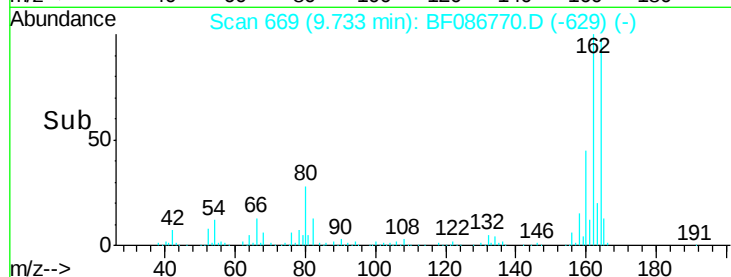
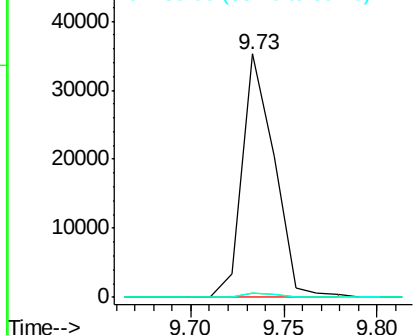
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 51.8  | 77.8# |
| 89      | 1.8   | 50.7  | 76.1# |



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: 6.26 ng  
 RT: 9.73 min Scan# 669  
 Delta R.T. -0.24 min  
 Lab File: BF086770.D  
 Acq: 7 May 2016 13:19

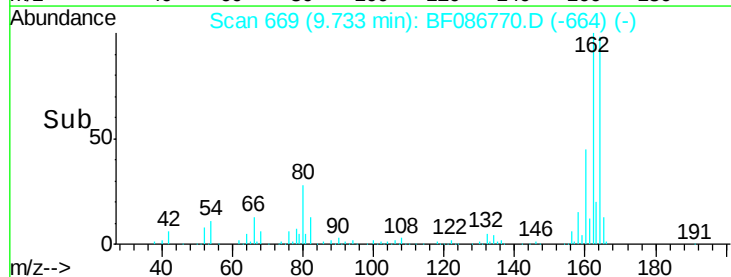
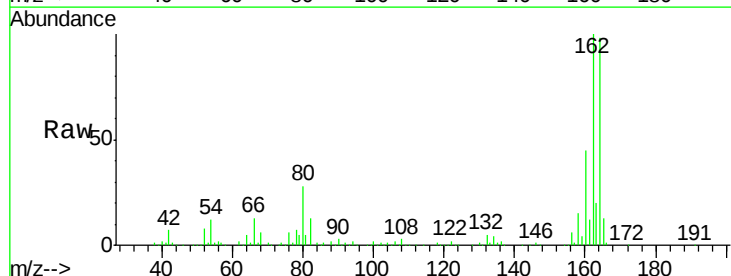
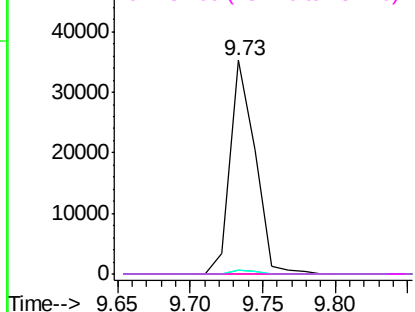
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 1.8   | 44.3  | 66.5#  |
| 89      | 1.8   | 70.0  | 105.0# |
| 182     | 0.0   | 1.8   | 2.6#   |

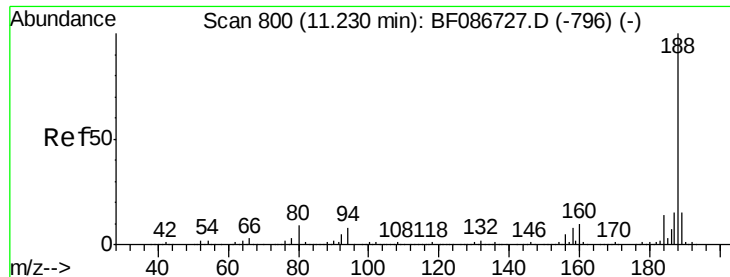
Abundance Ion 165.00 (164.70 to 165.70): E

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

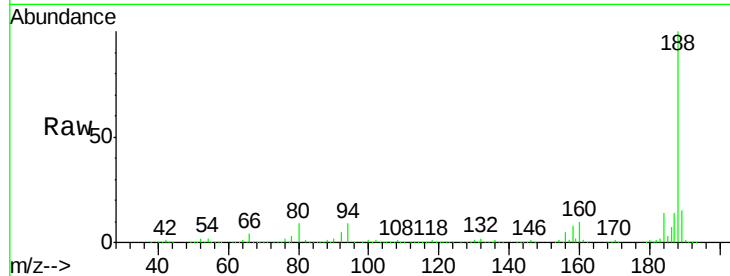




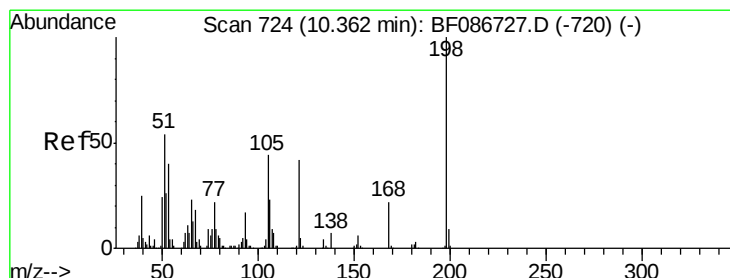
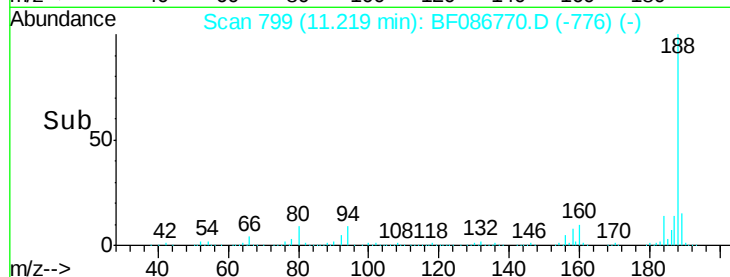
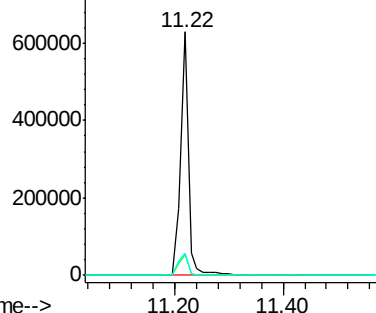
#63  
 Phenanthrene-d10  
 Concen: 40.00 ng  
 RT: 11.22 min Scan# 799  
 Delta R.T. -0.03 min  
 Lab File: BF086770.D  
 Acq: 7 May 2016 13:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MWHR(3-8)

Tgt Ion:188 Resp: 634696  
 Ion Ratio Lower Upper  
 188 100  
 94 8.8 6.8 10.2  
 80 9.2 7.1 10.7

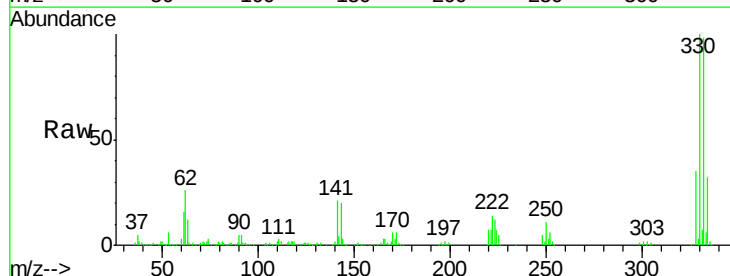


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

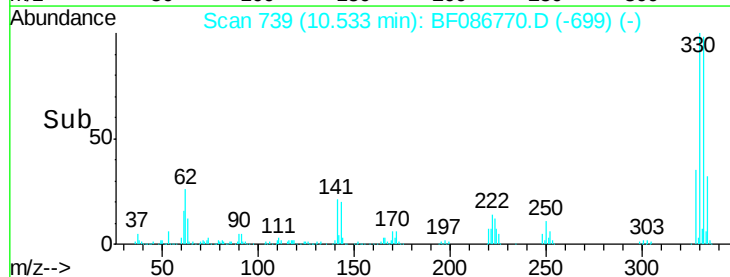
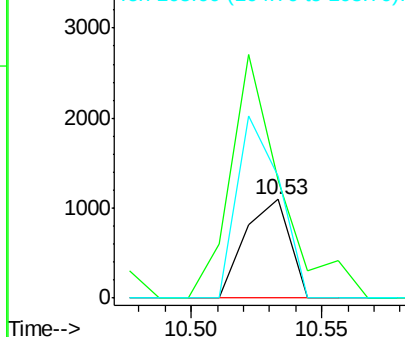


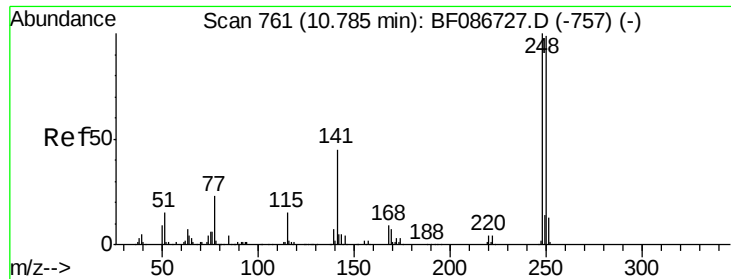
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.68 ng  
 RT: 10.53 min Scan# 739  
 Delta R.T. 0.16 min  
 Lab File: BF086770.D  
 Acq: 7 May 2016 13:19

Tgt Ion:198 Resp: 1309  
 Ion Ratio Lower Upper  
 198 100  
 51 120.3 20.5 60.5#  
 105 124.2 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

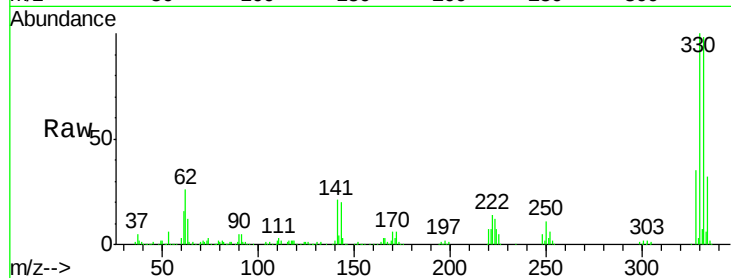




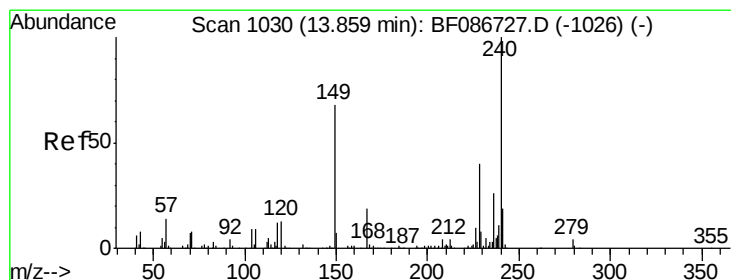
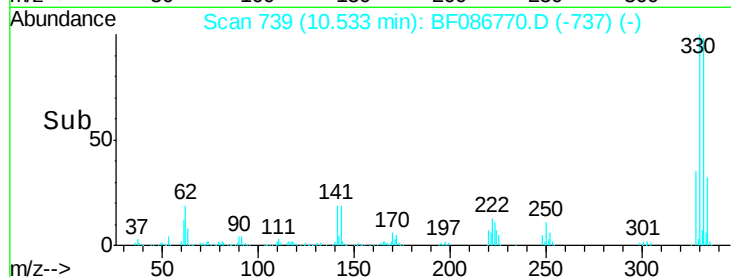
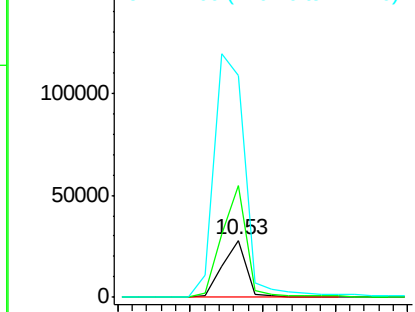
#66  
4-Bromophenyl-phenylether  
Concen: 5.13 ng  
RT: 10.53 min Scan# 739  
Delta R.T. -0.27 min  
Lab File: BF086770.D  
Acq: 7 May 2016 13:19

Instrument :  
BNA\_F  
ClientSampleId :  
MWHR(3-8)

Tgt Ion:248 Resp: 32332  
Ion Ratio Lower Upper  
248 100  
250 196.9 78.6 117.8#  
141 388.9 76.0 114.0#

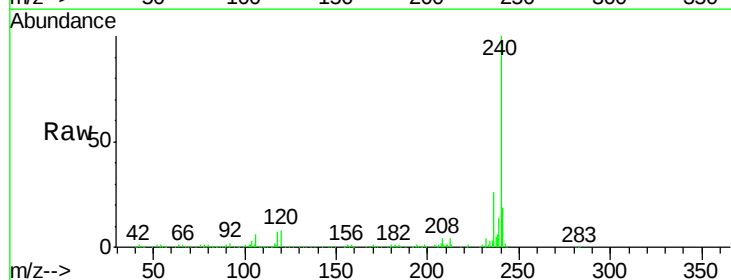


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

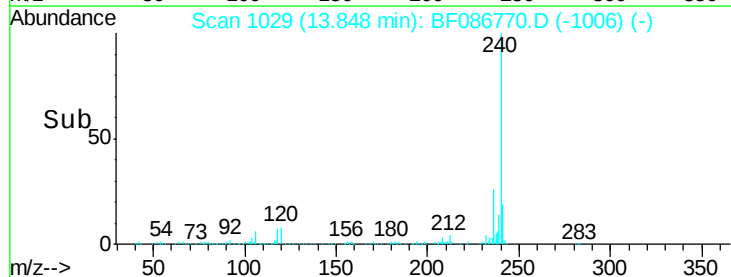
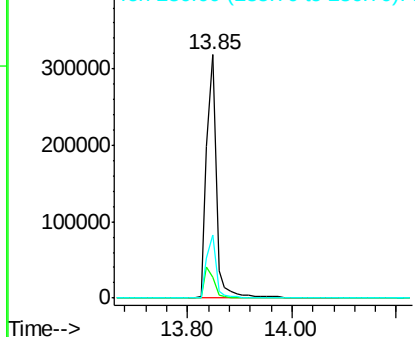


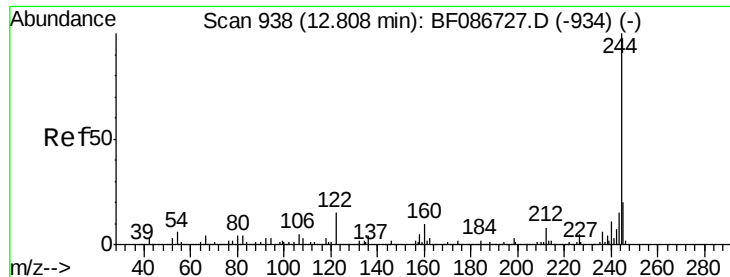
#75  
Chrysene-d12  
Concen: 40.00 ng  
RT: 13.85 min Scan# 1029  
Delta R.T. -0.03 min  
Lab File: BF086770.D  
Acq: 7 May 2016 13:19

Tgt Ion:240 Resp: 417095  
Ion Ratio Lower Upper  
240 100  
120 8.4 11.2 16.8#  
236 26.1 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

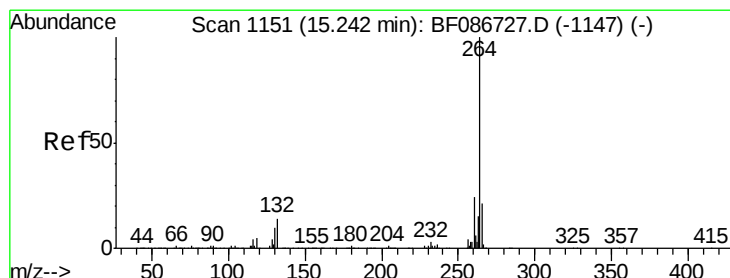
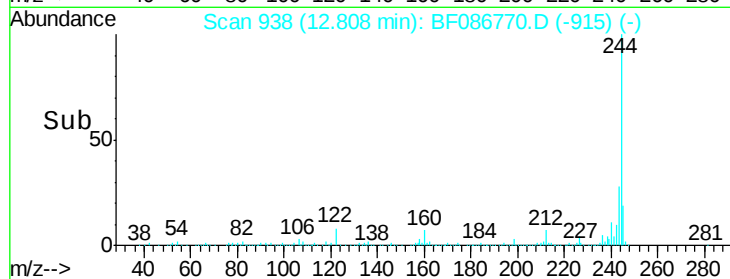
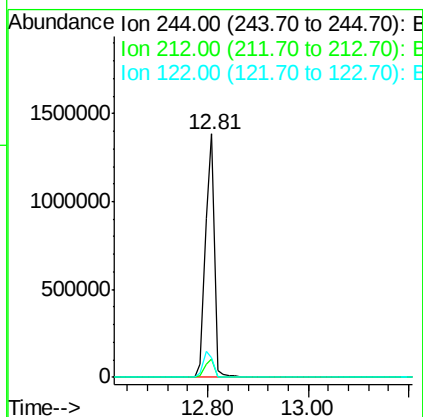
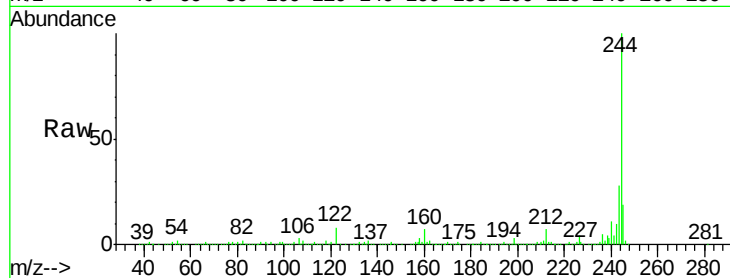




#78  
 Terphenyl-d14  
 Concen: 82.18 ng  
 RT: 12.81 min Scan# 938  
 Delta R.T. -0.03 min  
 Lab File: BF086770.D  
 Acq: 7 May 2016 13:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MWHR(3-8)

Tgt Ion:244 Resp: 1695971  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 6.2 9.2  
 122 8.2 12.0 18.0#



#86  
 Perylene-d12  
 Concen: 40.00 ng  
 RT: 15.22 min Scan# 1149  
 Delta R.T. -0.05 min  
 Lab File: BF086770.D  
 Acq: 7 May 2016 13:19

Tgt Ion:264 Resp: 311785  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 19.5 29.3  
 265 21.1 17.3 25.9

