

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
 Data File : BF086942.D  
 Acq On : 12 May 2016 20:52  
 Operator : UM/SJ  
 Sample : H2968-11  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-04

Quant Time: May 13 00:51:04 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 09 16:04:56 2016  
 Response via : Initial Calibration

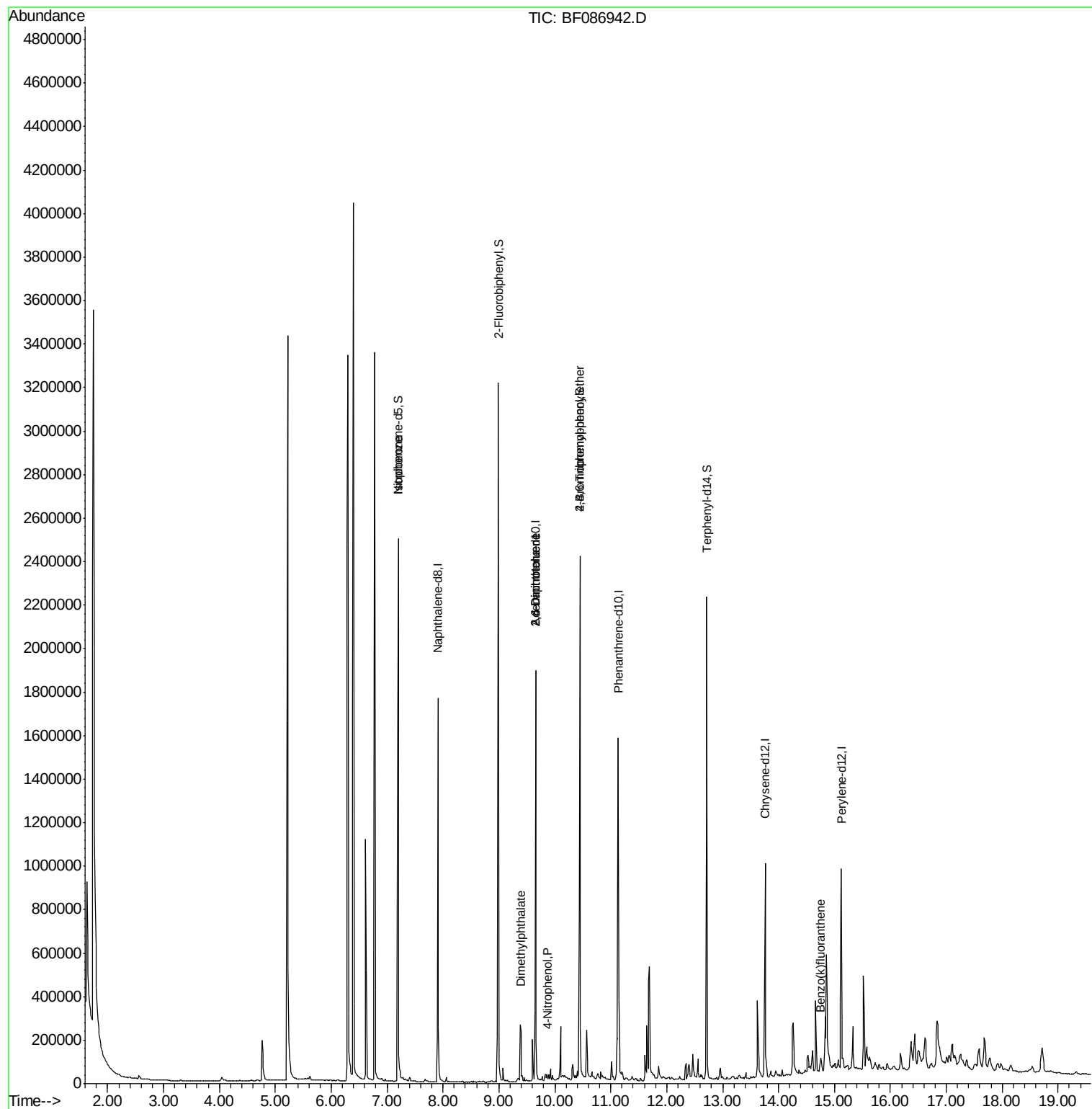
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4     | 0.00  | 152  | 0        | 0.00  | ng    | -6.69    |
| 21) Naphthalene-d8            | 7.91  | 136  | 714512   | 20.00 | ng    | -0.08    |
| 38) Acenaphthene-d10          | 9.66  | 164  | 335192   | 20.00 | ng    | -0.08    |
| 63) Phenanthrene-d10          | 11.13 | 188  | 520355   | 20.00 | ng    | -0.08    |
| 75) Chrysene-d12              | 13.76 | 240  | 358230   | 20.00 | ng    | -0.08    |
| 86) Perylene-d12              | 15.12 | 264  | 372291   | 20.00 | ng    | -0.09    |
| System Monitoring Compounds   |       |      |          |       |       |          |
| 5) 2-Fluorophenol             | 5.22  | 112  | 1020054  | 0.00  | ng    | -0.07    |
| 7) Phenol-d6                  | 6.30  | 99   | 1403540  | 0.00  | ng    | -0.07    |
| 23) Nitrobenzene-d5           | 7.20  | 82   | 953057   | 66.98 | ng    | -0.07    |
| 41) 2,4,6-Tribromophenol      | 10.44 | 330  | 257481   | 72.56 | ng    | -0.08    |
| 44) 2-Fluorobiphenyl          | 8.99  | 172  | 1323938  | 66.38 | ng    | -0.07    |
| 78) Terphenyl-d14             | 12.72 | 244  | 788889   | 46.72 | ng    | -0.08    |
| Target Compounds              |       |      |          |       |       |          |
| 25) Isophorone                | 7.20  | 82   | 924678   | 35.02 | ng    | # 68     |
| 49) Dimethylphthalate         | 9.39  | 163  | 132917   | 5.20  | ng    | # 98     |
| 50) 2,6-Dinitrotoluene        | 9.66  | 165  | 42884    | 7.97  | ng    | # 21     |
| 55) 4-Nitrophenol             | 9.86  | 139  | 317      | 4.64  | ng    | # 14     |
| 56) 2,4-Dinitrotoluene        | 9.66  | 165  | 42885    | 6.44  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether | 10.44 | 248  | 16281    | 3.09  | ng    | # 1      |
| 88) Benzo(k)fluoranthene      | 14.75 | 252  | 40365    | 2.04  | ng    | 97       |

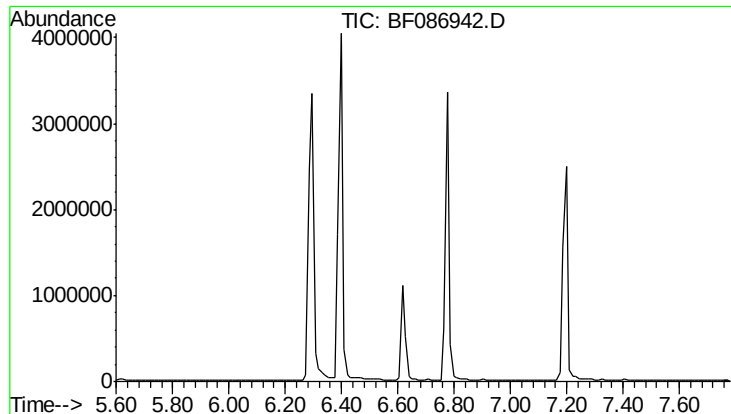
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051216\  
Data File : BF086942.D  
Acq On : 12 May 2016 20:52  
Operator : UM/SJ  
Sample : H2968-11  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SS-04

Quant Time: May 13 00:51:04 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 09 16:04:56 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.00 ng

Expected RT: 6.69 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

Instrument :

BNA\_F

ClientSampleId :

SS-04

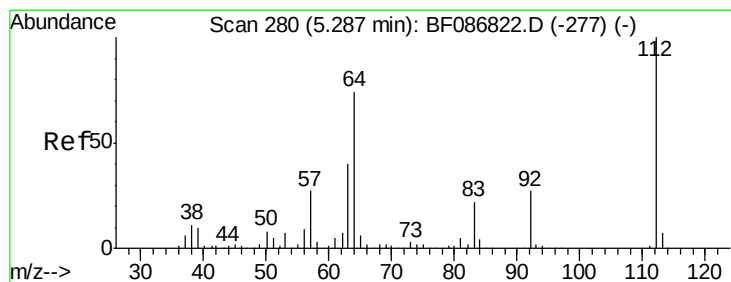
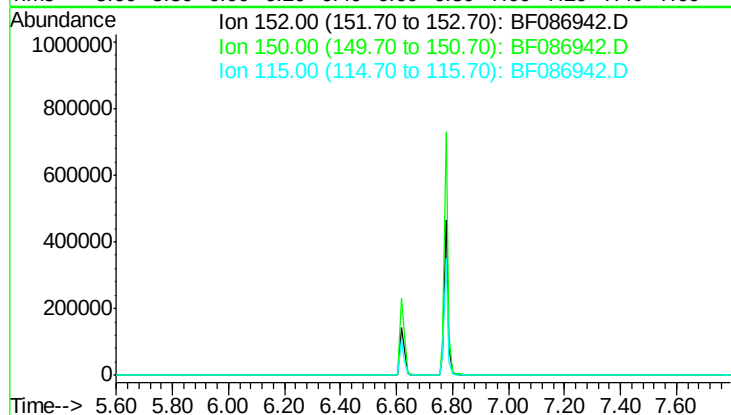
Tgt Ion: 152

Sig Exp Ratio

152 100

150 157.2

115 64.4



#5

2-Fluorophenol

Concen: 0.00 ng

RT: 5.22 min Scan# 318

Delta R.T. -0.07 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

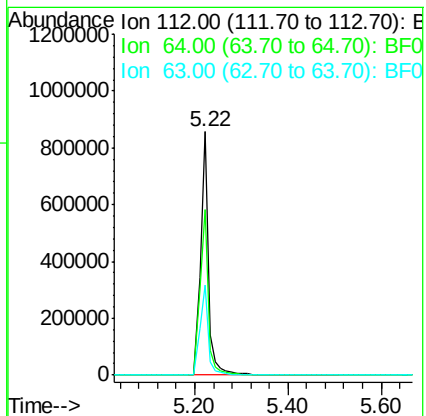
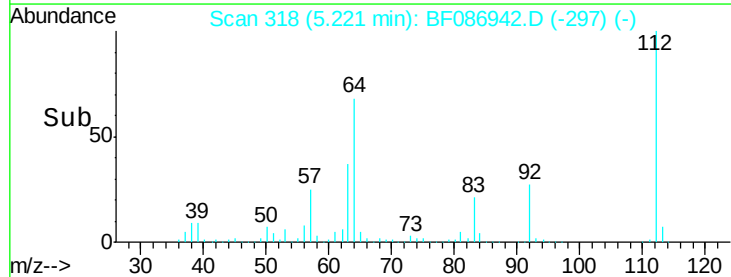
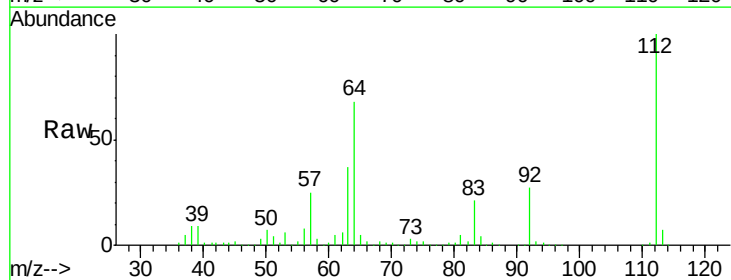
Tgt Ion: 112 Resp: 1020054

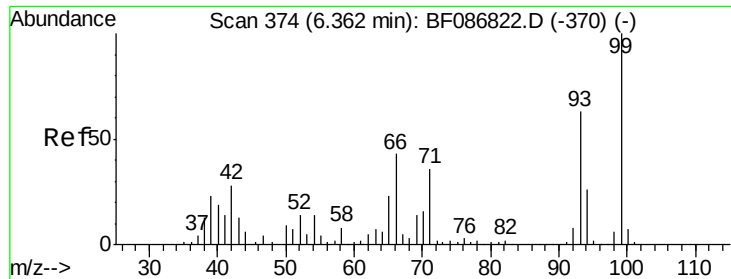
Ion Ratio Lower Upper

112 100

64 68.1 52.1 78.1

63 37.0 25.7 38.5





#7

Phenol-d6

Concen: 0.00 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.07 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

Instrument :

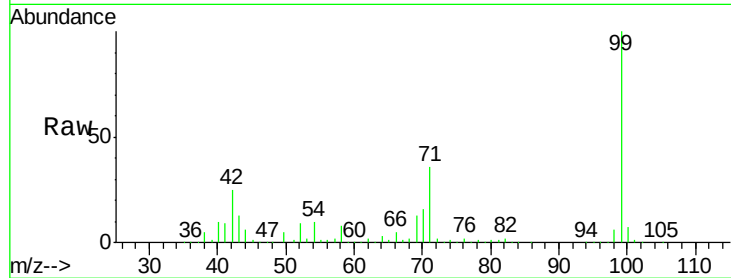
BNA\_F

ClientSampled :

SS-04

Tgt Ion: 99 Resp: 1403540

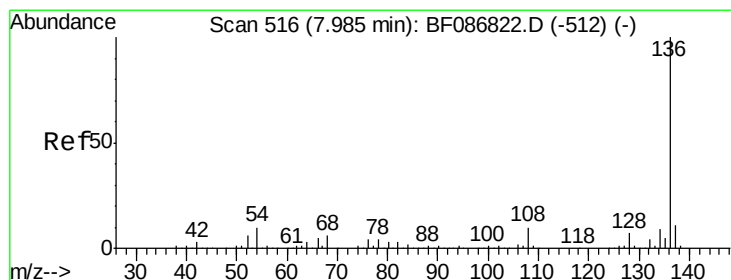
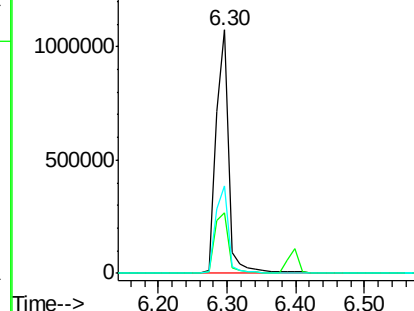
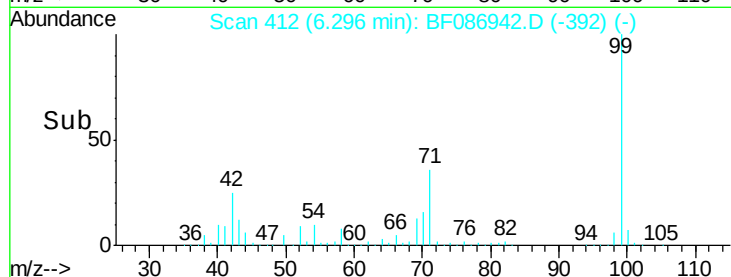
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 25.0  | 13.6  | 20.4# |
| 71  | 35.8  | 24.6  | 36.8  |



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 553

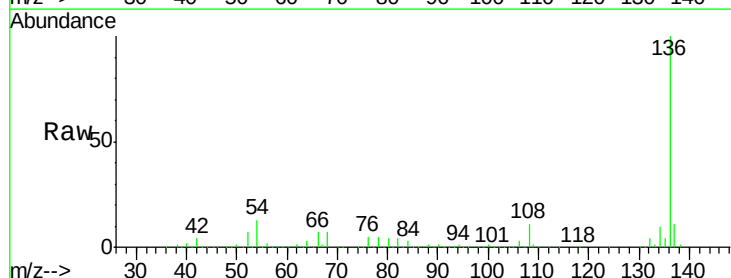
Delta R.T. -0.08 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

Tgt Ion: 136 Resp: 714512

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.4  | 8.8   | 13.2  |
| 54  | 13.2  | 5.0   | 7.4#  |
| 68  | 7.0   | 4.4   | 6.6#  |

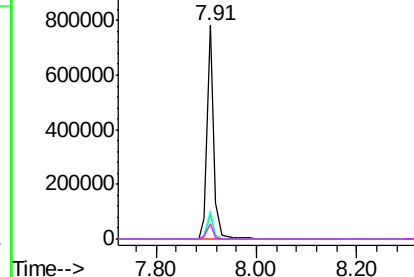
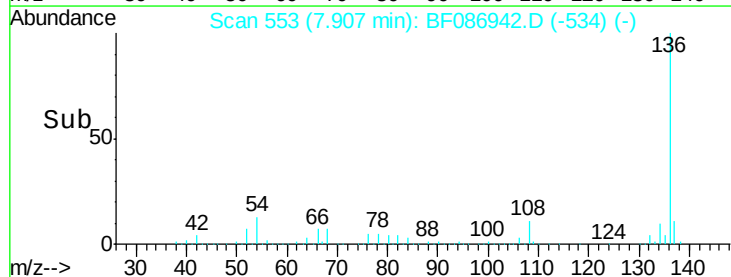


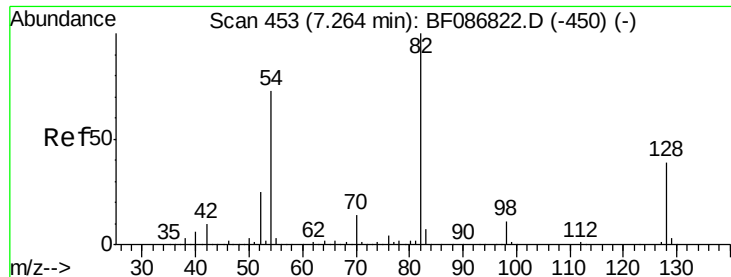
Abundance Ion 136.00 (135.70 to 136.70): E

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: 66.98 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.07 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

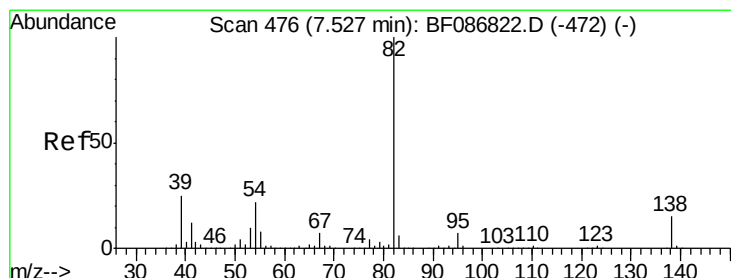
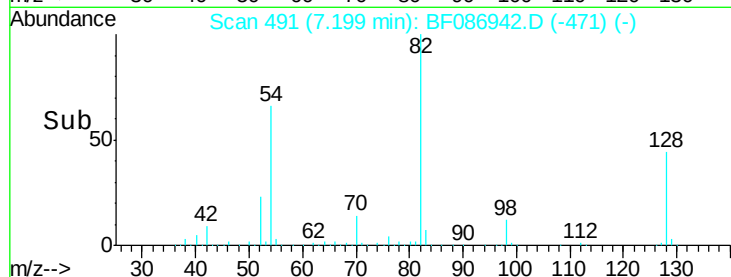
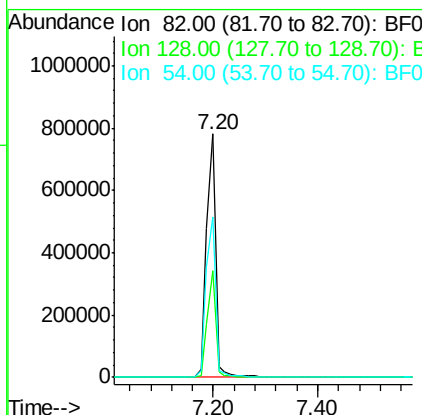
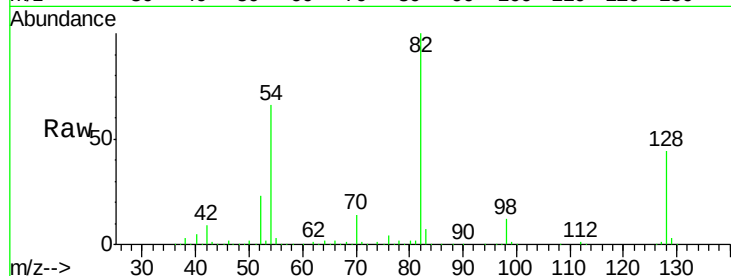
Instrument :

BNA\_F

ClientSampleId :

SS-04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 953057 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.8  | 40.6  | 61.0   |
| 54       | 65.8  | 38.1  | 57.1#  |



#25

Isophorone

Concen: 35.02 ng

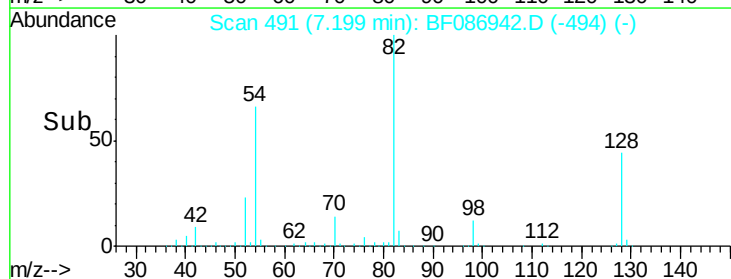
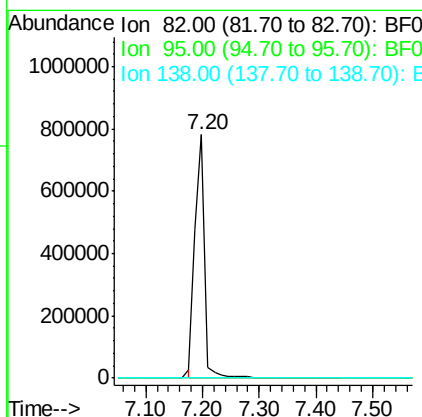
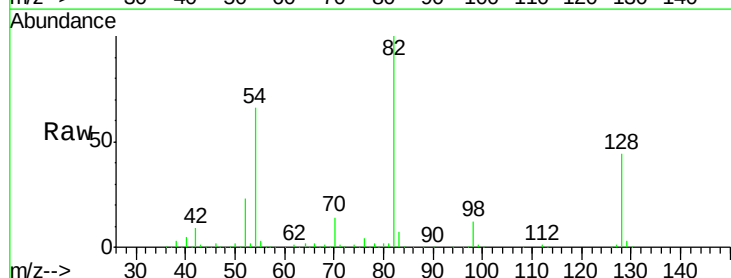
RT: 7.20 min Scan# 491

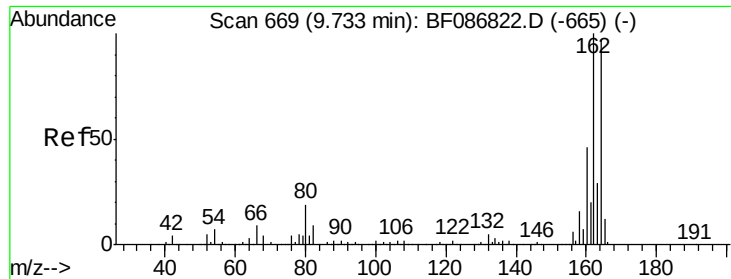
Delta R.T. -0.33 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 924678 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 95       | 0.0   | 5.1   | 7.7#   |
| 138      | 0.0   | 12.4  | 18.6#  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.08 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

Instrument :

BNA\_F

ClientSampleId :

SS-04

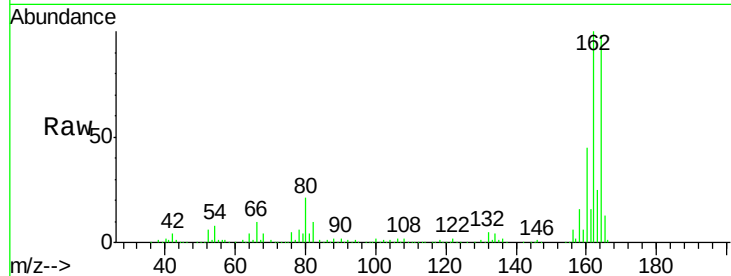
Tgt Ion:164 Resp: 335192

Ion Ratio Lower Upper

164 100

162 102.4 82.8 124.2

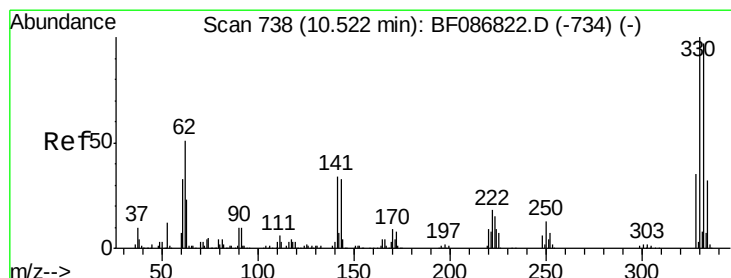
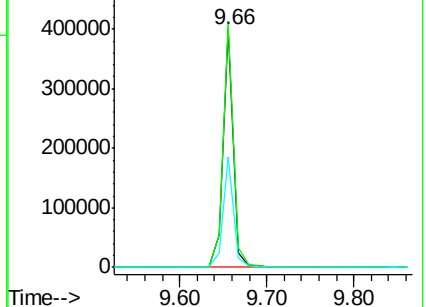
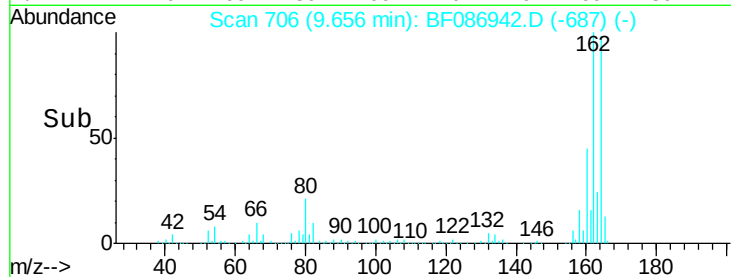
160 46.5 36.9 55.3



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: 72.56 ng

RT: 10.44 min Scan# 775

Delta R.T. -0.08 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

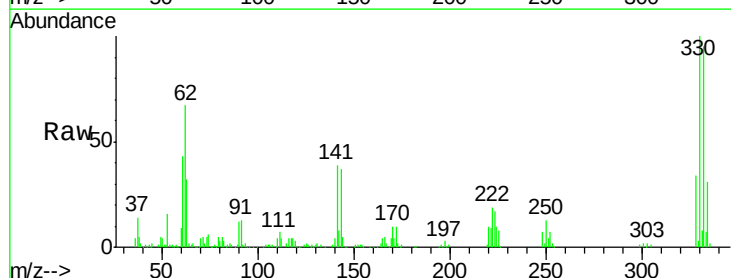
Tgt Ion:330 Resp: 257481

Ion Ratio Lower Upper

330 100

332 95.3 79.0 118.4

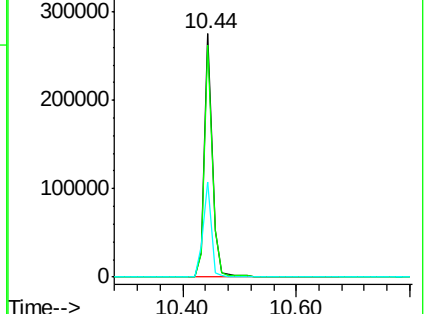
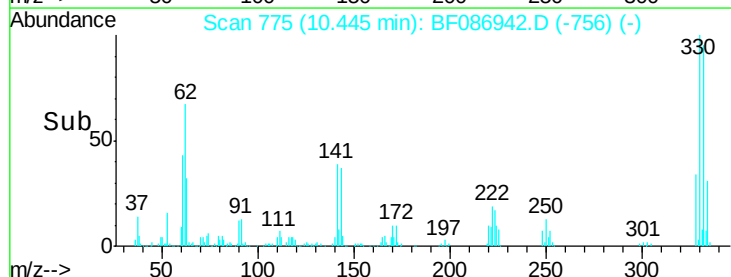
141 41.4 31.2 46.8

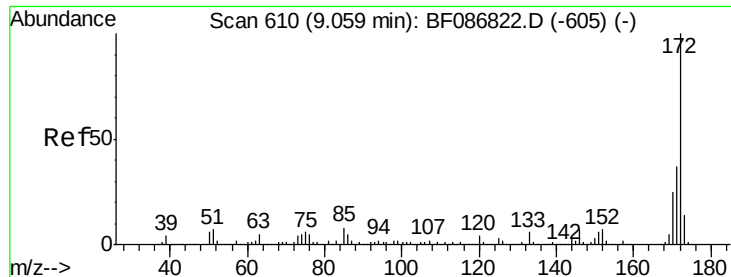


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

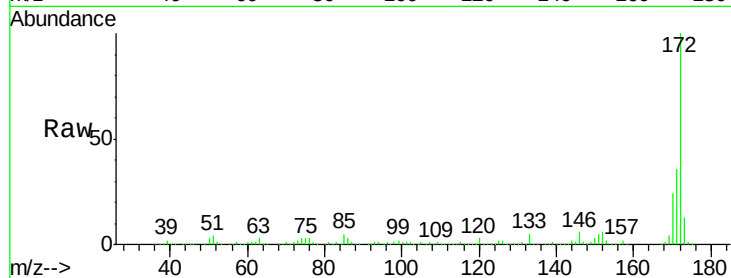




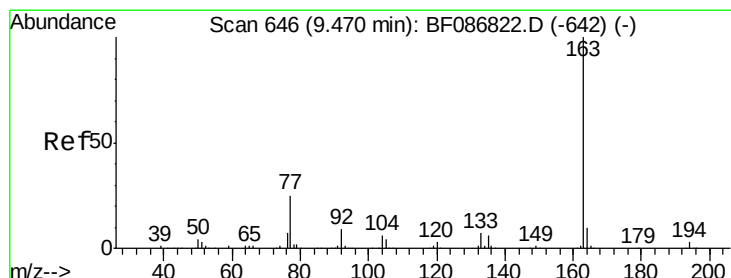
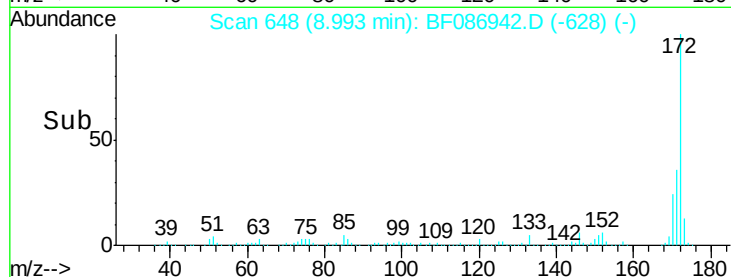
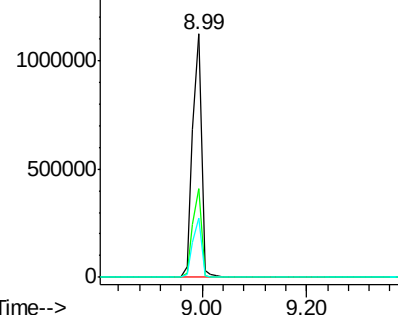
#44  
 2-Fluorobiphenyl  
 Concen: 66.38 ng  
 RT: 8.99 min Scan# 648  
 Delta R.T. -0.07 min  
 Lab File: BF086942.D  
 Acq: 12 May 2016 20:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-04

Tgt Ion:172 Resp: 1323938  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 29.0 43.6  
 170 24.4 19.8 29.8

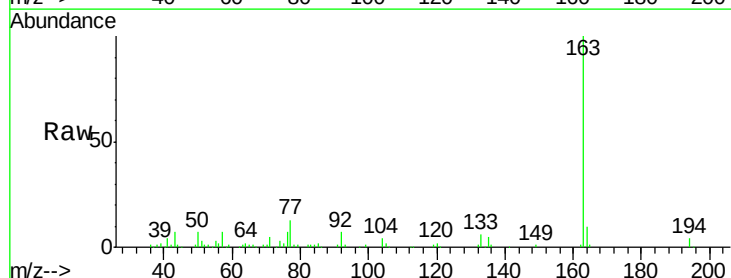


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

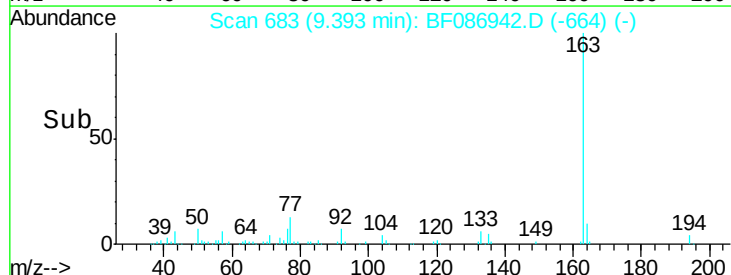
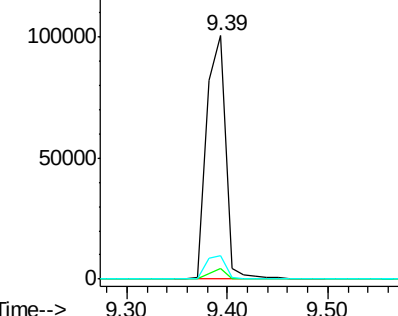


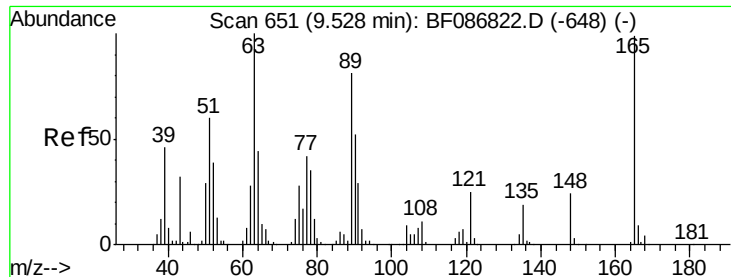
#49  
 Dimethylphthalate  
 Concen: 5.20 ng  
 RT: 9.39 min Scan# 683  
 Delta R.T. -0.08 min  
 Lab File: BF086942.D  
 Acq: 12 May 2016 20:52

Tgt Ion:163 Resp: 132917  
 Ion Ratio Lower Upper  
 163 100  
 194 4.1 2.6 4.0#  
 164 9.7 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E  
 Ion 194.00 (193.70 to 194.70): E  
 Ion 164.00 (163.70 to 164.70): E

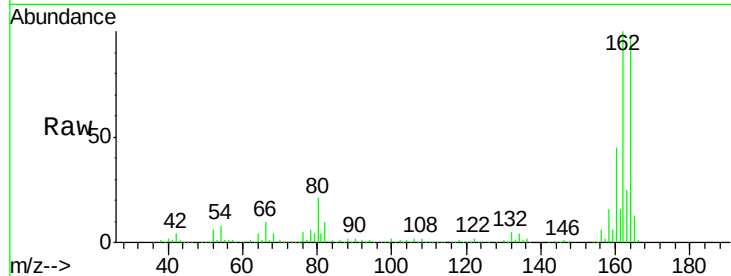




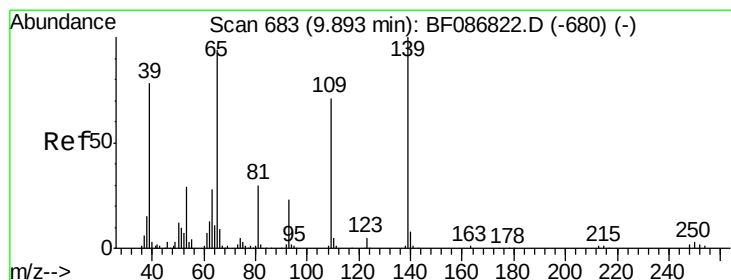
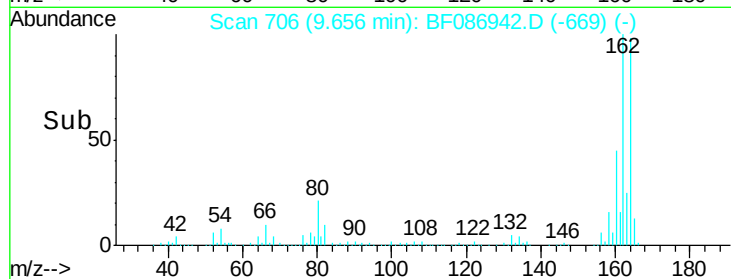
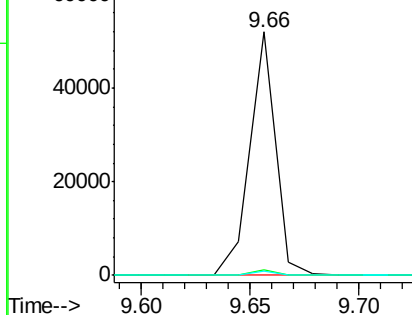
#50  
 2,6-Dinitrotoluene  
 Concen: 7.97 ng  
 RT: 9.66 min Scan# 706  
 Delta R.T. 0.13 min  
 Lab File: BF086942.D  
 Acq: 12 May 2016 20:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS-04

Tgt Ion:165 Resp: 42884  
 Ion Ratio Lower Upper  
 165 100  
 63 2.1 51.8 77.8#  
 89 1.9 50.7 76.1#

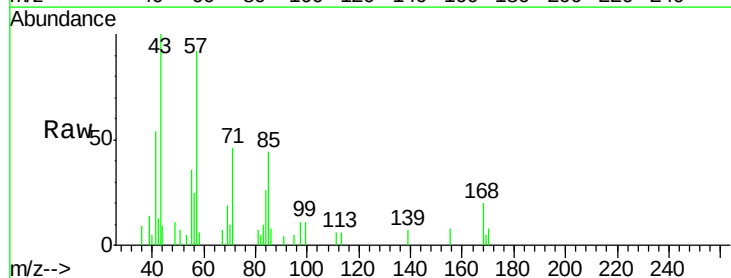


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

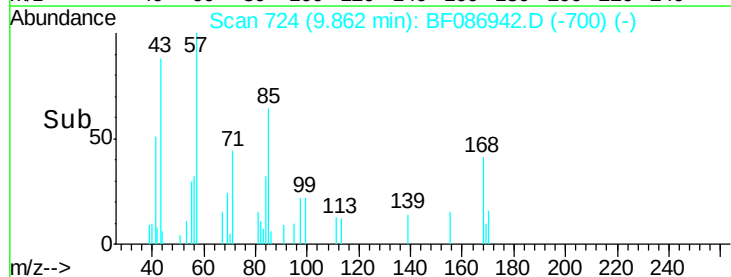
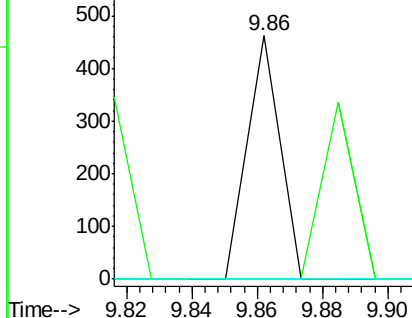


#55  
 4-Nitrophenol  
 Concen: 4.64 ng  
 RT: 9.86 min Scan# 724  
 Delta R.T. -0.03 min  
 Lab File: BF086942.D  
 Acq: 12 May 2016 20:52

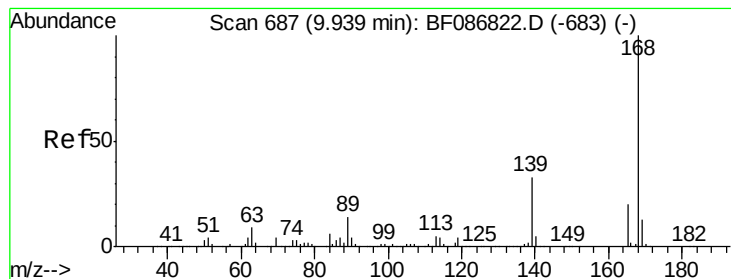
Tgt Ion:139 Resp: 317  
 Ion Ratio Lower Upper  
 139 100  
 109 0.0 36.9 76.9#  
 65 0.0 64.0 104.0#



Abundance Ion 139.00 (138.70 to 139.70): E  
 Ion 109.00 (108.70 to 109.70): E  
 Ion 65.00 (64.70 to 65.70): BF0







#56

2,4-Dinitrotoluene

Concen: 6.44 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.28 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

Instrument :

BNA\_F

ClientSampleId :

SS-04

Tgt Ion:165 Resp: 42885

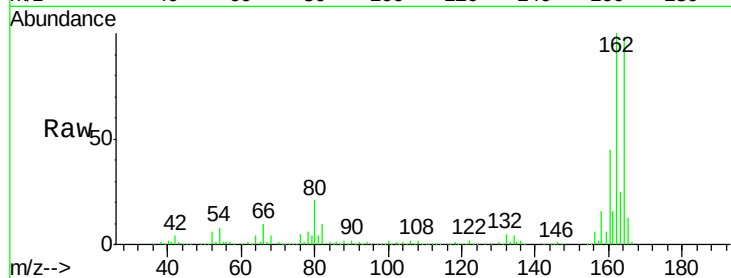
Ion Ratio Lower Upper

165 100

63 2.1 44.3 66.5#

89 1.9 70.0 105.0#

182 0.0 1.8 2.6#

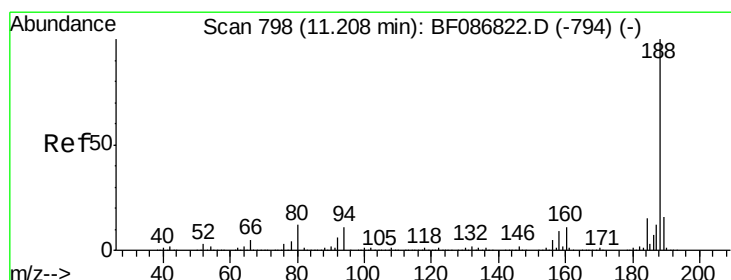
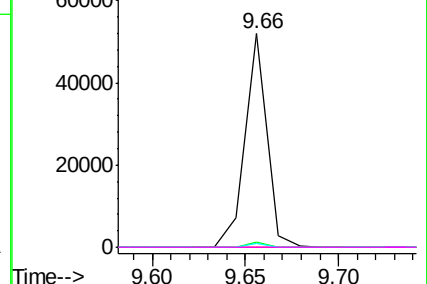
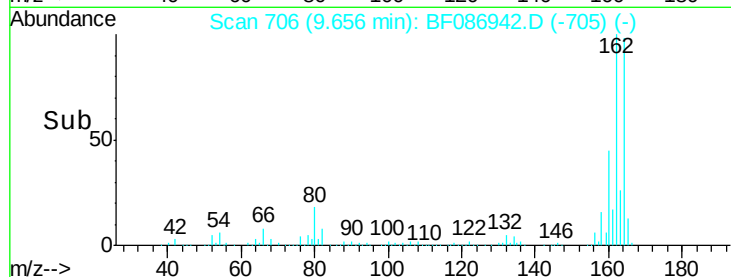


Abundance Ion 165.00 (164.70 to 165.70): E

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: 20.00 ng

RT: 11.13 min Scan# 835

Delta R.T. -0.08 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

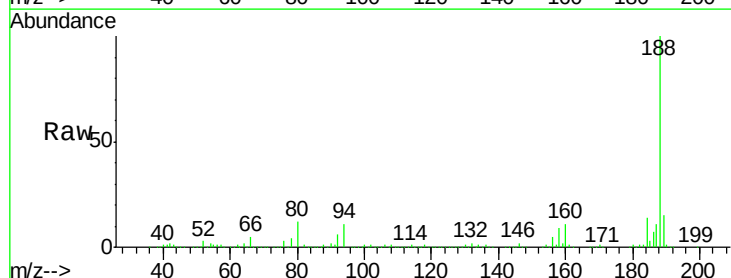
Tgt Ion:188 Resp: 520355

Ion Ratio Lower Upper

188 100

94 11.1 6.8 10.2#

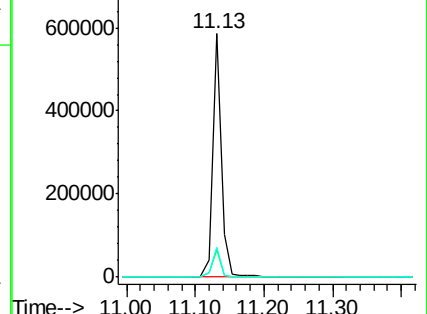
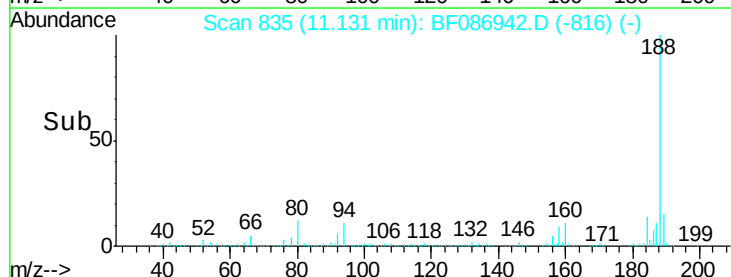
80 12.3 7.1 10.7#

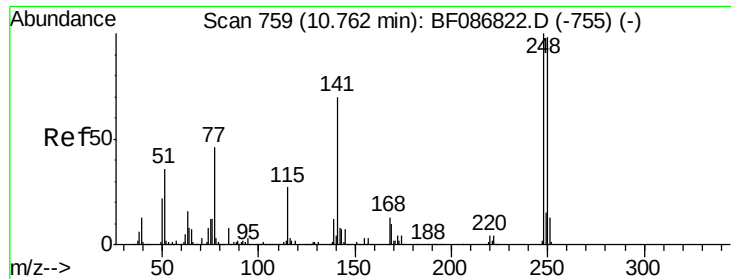


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

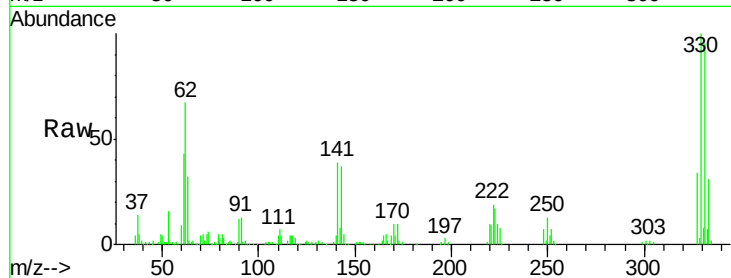




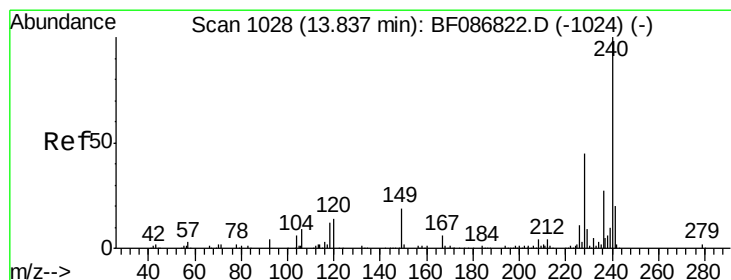
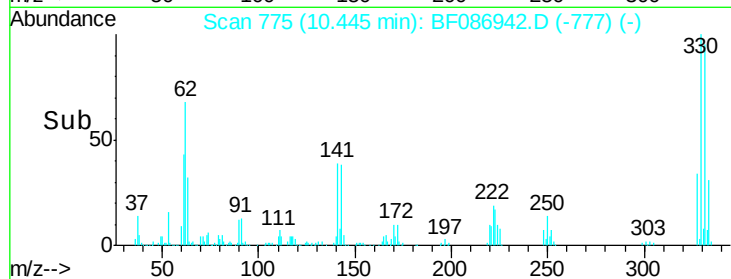
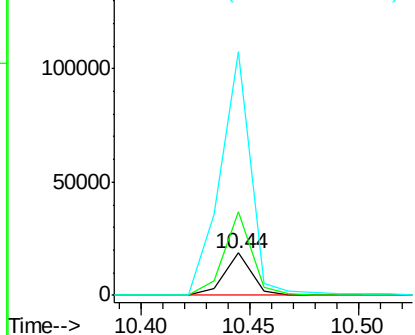
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.09 ng  
 RT: 10.44 min Scan# 775  
 Delta R.T. -0.32 min  
 Lab File: BF086942.D  
 Acq: 12 May 2016 20:52

Instrument :  
 BNA\_F  
 ClientSampled :  
 SS-04

Tgt Ion:248 Resp: 16281  
 Ion Ratio Lower Upper  
 248 100  
 250 198.8 78.6 117.8#  
 141 576.4 76.0 114.0#

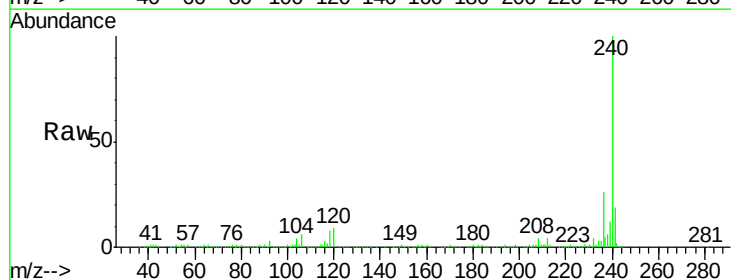


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

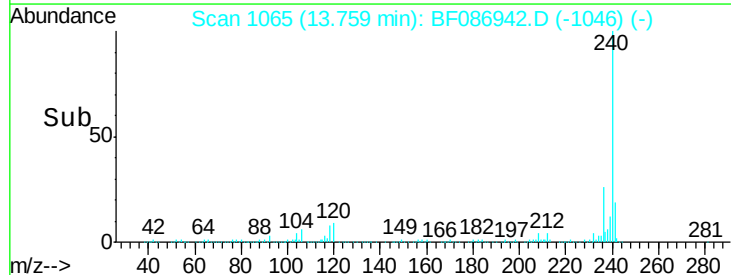
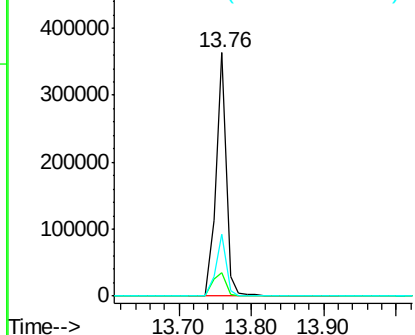


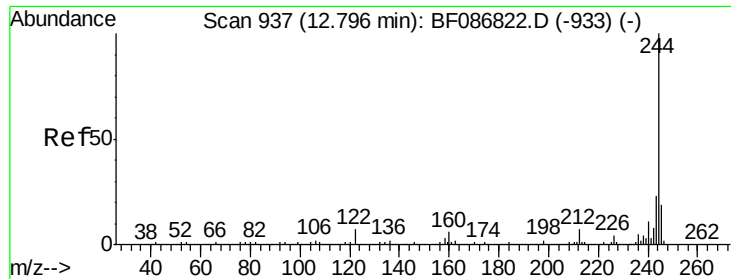
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.76 min Scan# 1065  
 Delta R.T. -0.08 min  
 Lab File: BF086942.D  
 Acq: 12 May 2016 20:52

Tgt Ion:240 Resp: 358230  
 Ion Ratio Lower Upper  
 240 100  
 120 9.4 11.2 16.8#  
 236 25.5 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: 46.72 ng

RT: 12.72 min Scan# 974

Delta R.T. -0.08 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

Instrument :

BNA\_F

ClientSampled :

SS-04

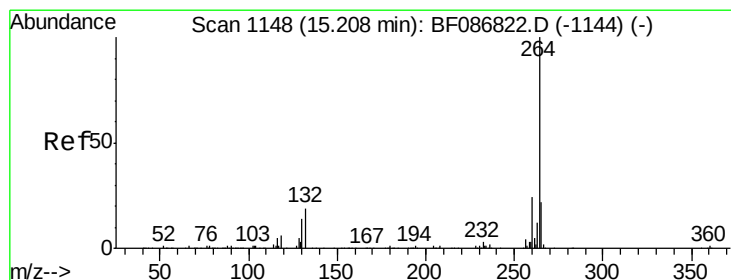
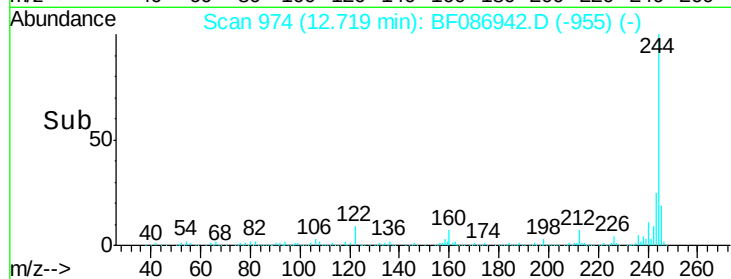
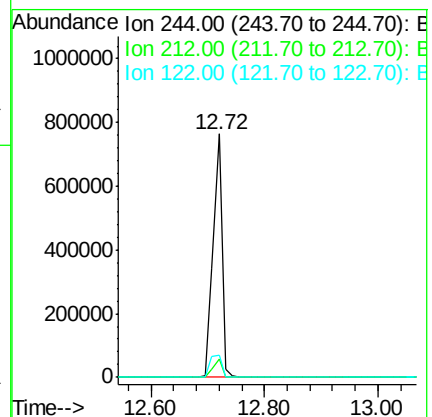
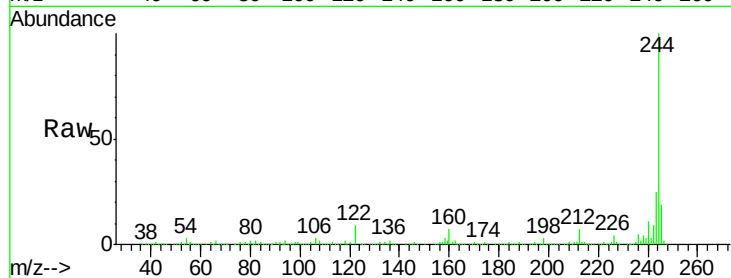
Tgt Ion:244 Resp: 788889

Ion Ratio Lower Upper

244 100

212 7.3 6.2 9.2

122 8.9 12.0 18.0#



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.12 min Scan# 1184

Delta R.T. -0.09 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

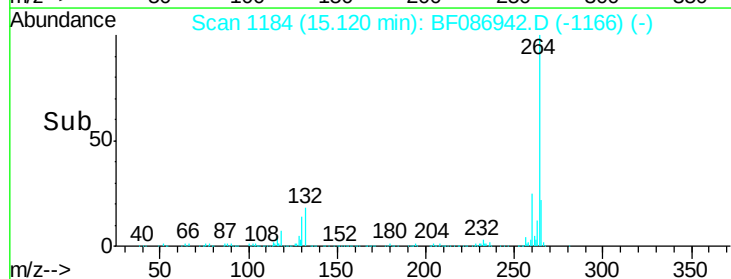
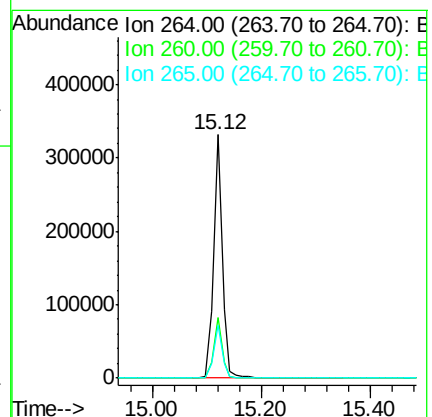
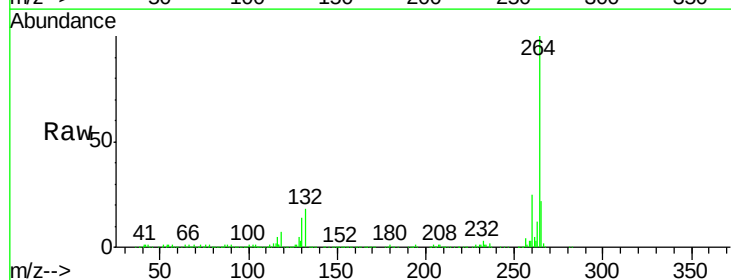
Tgt Ion:264 Resp: 372291

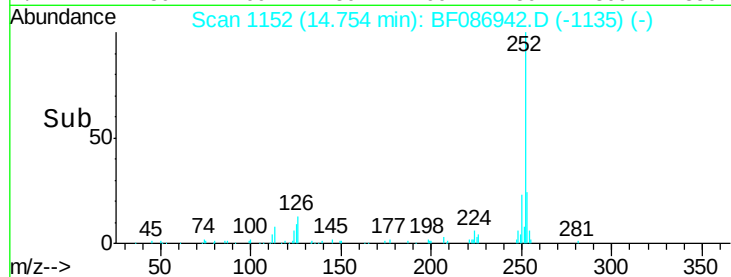
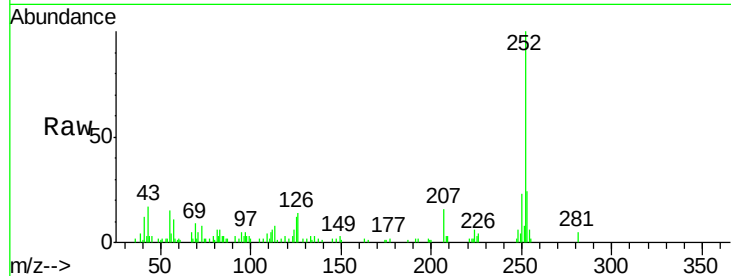
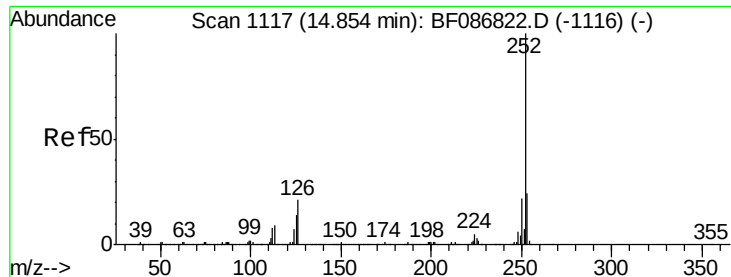
Ion Ratio Lower Upper

264 100

260 24.8 19.5 29.3

265 21.7 17.3 25.9





#88

Benzo(k)fluoranthene

Concen: 2.04 ng

RT: 14.75 min Scan# 1152

Delta R.T. -0.10 min

Lab File: BF086942.D

Acq: 12 May 2016 20:52

Instrument :

BNA\_F

ClientSampleId :

SS-04

Tgt Ion: 252 Resp: 40365

Ion Ratio Lower Upper

252 100

253 24.1 17.8 26.6

125 11.7 9.1 13.7

