

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040216\  
 Data File : BF086028.D  
 Acq On : 2 Apr 2016 23:02  
 Operator : UM/SJ  
 Sample : H1970-12  
 Misc :  
 ALS Vial : 62 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6

Quant Time: Apr 04 01:10:20 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 01 23:17:06 2016  
 Response via : Initial Calibration

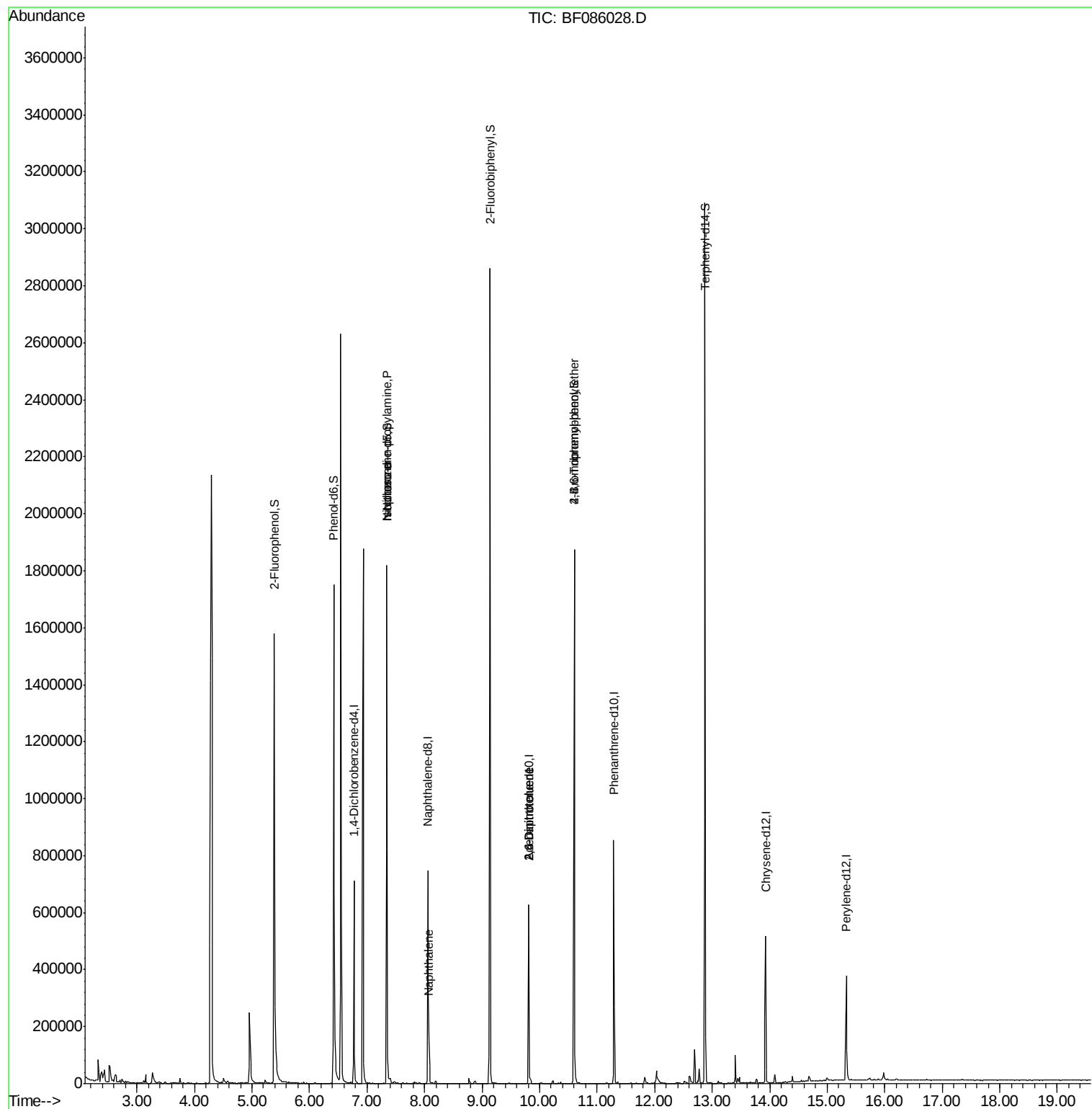
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.77  | 152  | 106077   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.05  | 136  | 391233   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.81  | 164  | 173653   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.29 | 188  | 319339   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.93 | 240  | 203355   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.33 | 264  | 170207   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.39  | 112  | 778651   | 125.47 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.42  | 99   | 789197   | 100.12 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.34  | 82   | 698927   | 105.35 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.60 | 330  | 272176   | 166.99 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.14  | 172  | 1154523  | 110.54 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.88 | 244  | 959869   | 110.96 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.34  | 70   | 91803    | 18.79  | ng    | # 75     |
| 25) Isophorone                 | 7.34  | 82   | 698073   | 53.31  | ng    | # 68     |
| 31) Naphthalene                | 8.08  | 128  | 70662    | 3.59   | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 9.81  | 165  | 22028    | 8.09   | ng    | # 18     |
| 56) 2,4-Dinitrotoluene         | 9.81  | 165  | 22028    | 6.40   | ng    | # 37     |
| 66) 4-Bromophenyl-phenylether  | 10.60 | 248  | 17843    | 5.47   | ng    | # 1      |

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

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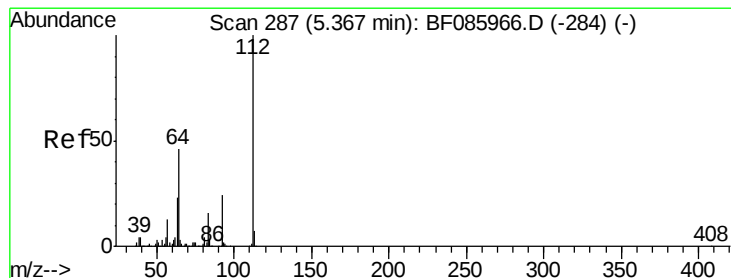
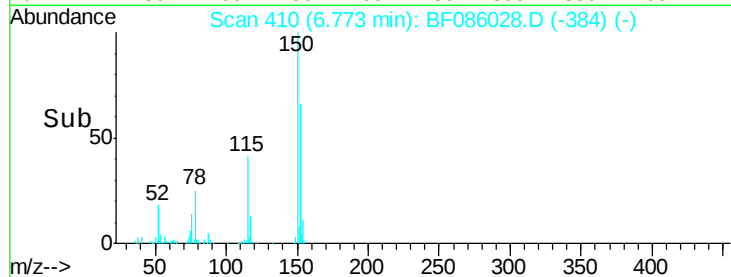
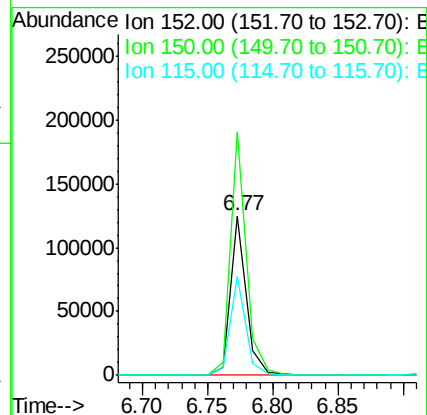
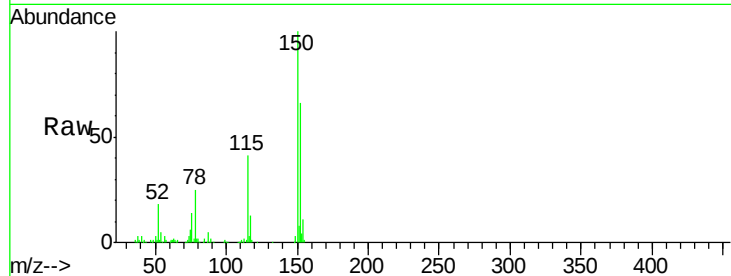


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.77 min Scan# 410  
Delta R.T. -0.00 min  
Lab File: BF086028.D  
Acq: 2 Apr 2016 23:02

Instrument :  
BNA\_F  
ClientSampled :  
TP-6

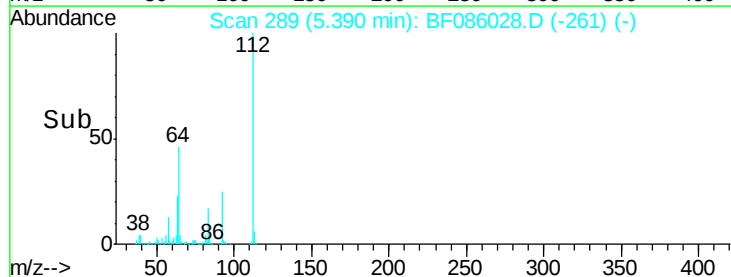
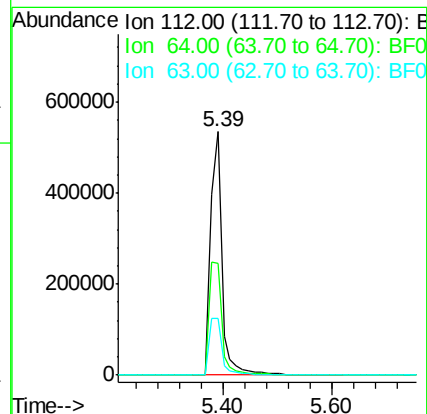
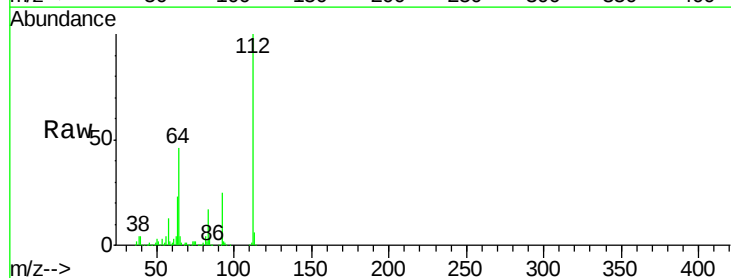
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.4 | 124.2 | 186.2 |
| 115     | 62.2  | 47.0  | 70.6  |

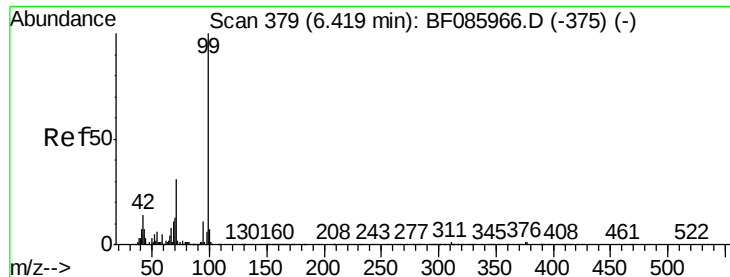


#5

2-Fluorophenol  
Concen: 125.47 ng  
RT: 5.39 min Scan# 289  
Delta R.T. 0.02 min  
Lab File: BF086028.D  
Acq: 2 Apr 2016 23:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 45.7  | 39.9  | 59.9  |
| 63      | 23.2  | 20.2  | 30.2  |





#7

Phenol-d6

Concen: 100.12 ng

RT: 6.42 min Scan# 379

Delta R.T. -0.00 min

Lab File: BF086028.D

Acq: 2 Apr 2016 23:02

Instrument :

BNA\_F

ClientSampleId :

TP-6

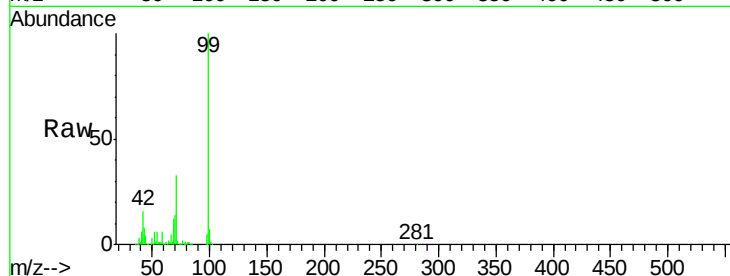
Tgt Ion: 99 Resp: 789197

Ion Ratio Lower Upper

99 100

42 15.9 11.1 16.7

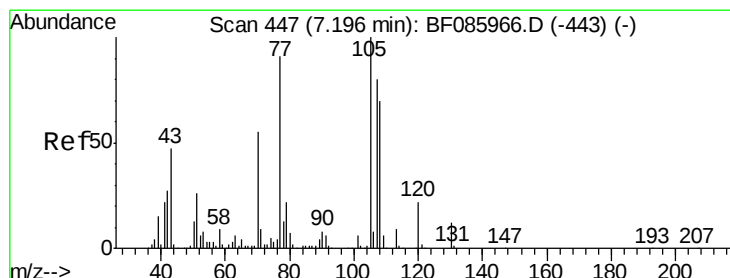
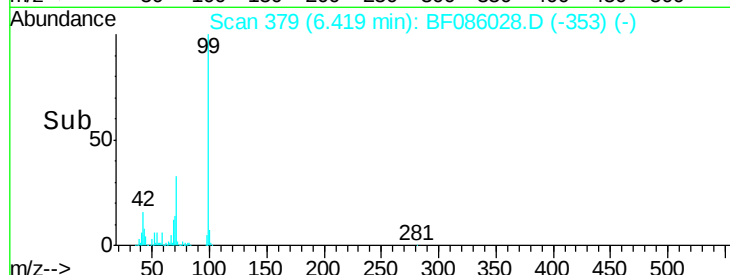
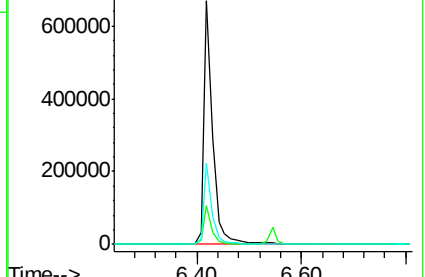
71 33.2 24.9 37.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 18.79 ng

RT: 7.34 min Scan# 460

Delta R.T. 0.15 min

Lab File: BF086028.D

Acq: 2 Apr 2016 23:02

Tgt Ion: 70 Resp: 91803

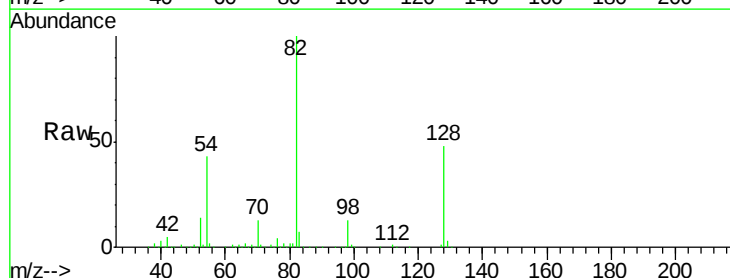
Ion Ratio Lower Upper

70 100

42 37.1 37.1 55.7#

101 0.0 8.6 12.8#

130 2.3 19.6 29.4#

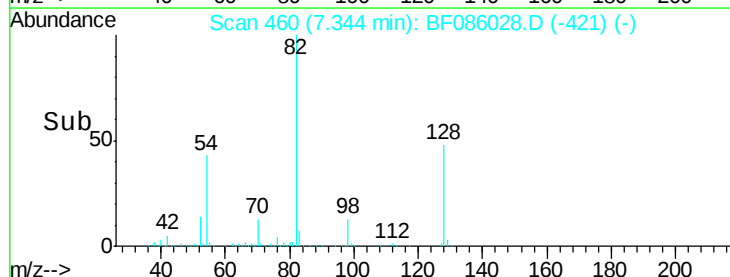
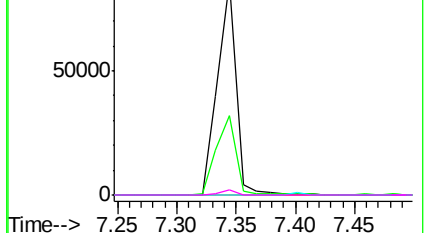


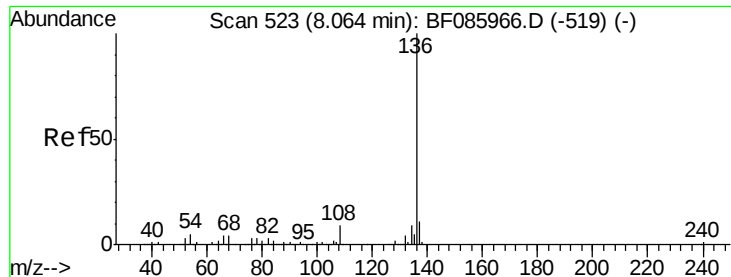
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

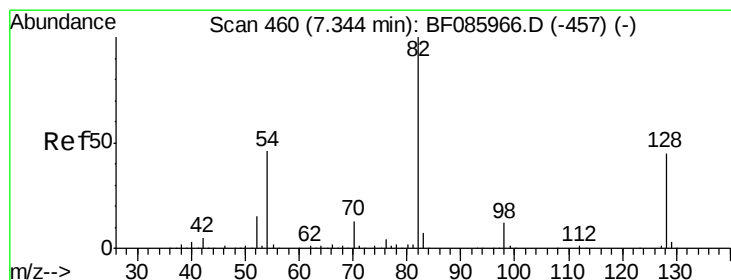
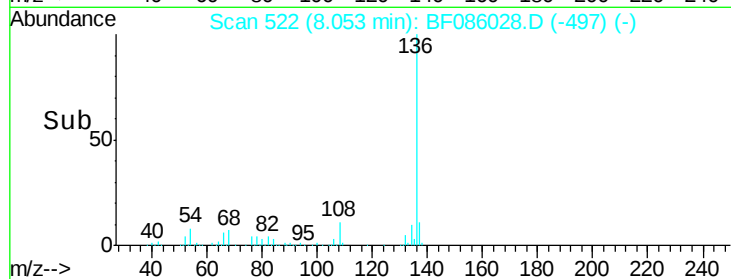
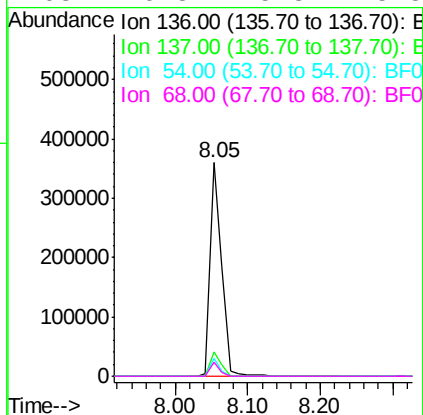
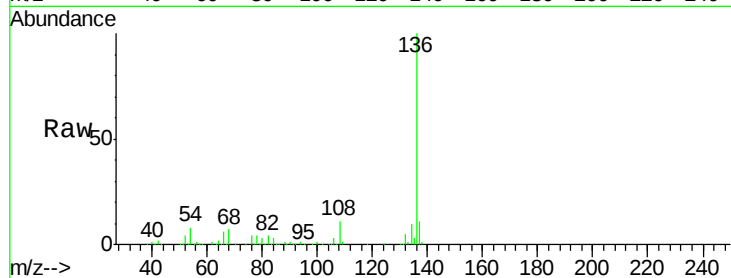




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.05 min Scan# 522  
Delta R.T. -0.01 min  
Lab File: BF086028.D  
Acq: 2 Apr 2016 23:02

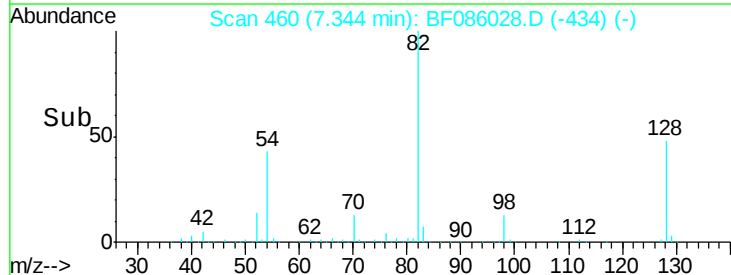
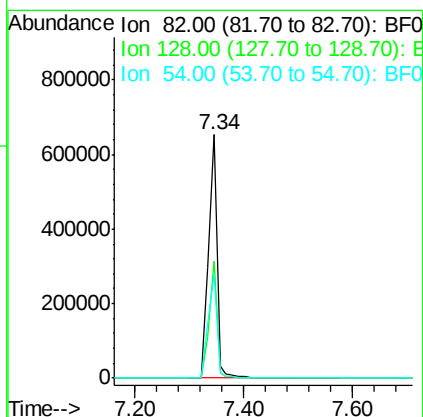
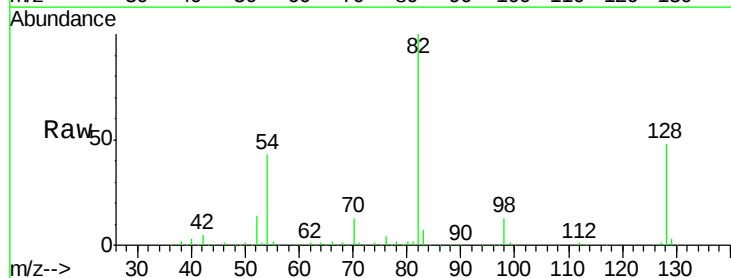
Instrument :  
BNA\_F  
ClientSampled :  
TP-6

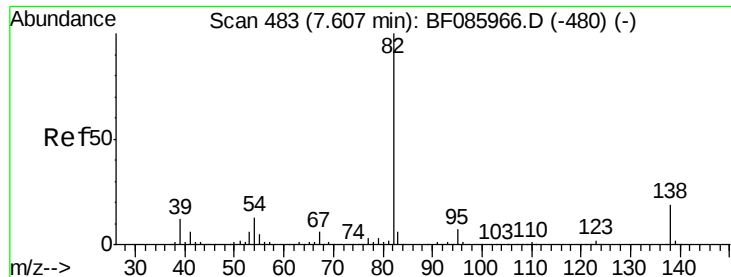
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 391233 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.1   | 13.7   |
| 54       | 8.3   | 7.4   | 11.0   |
| 68       | 6.8   | 5.8   | 8.8    |



#23  
Nitrobenzene-d5  
Concen: 105.35 ng  
RT: 7.34 min Scan# 460  
Delta R.T. 0.00 min  
Lab File: BF086028.D  
Acq: 2 Apr 2016 23:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 698927 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 48.3  | 41.8  | 62.8   |
| 54       | 42.7  | 33.4  | 50.0   |

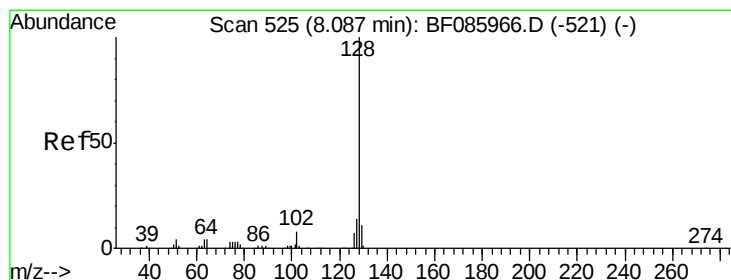
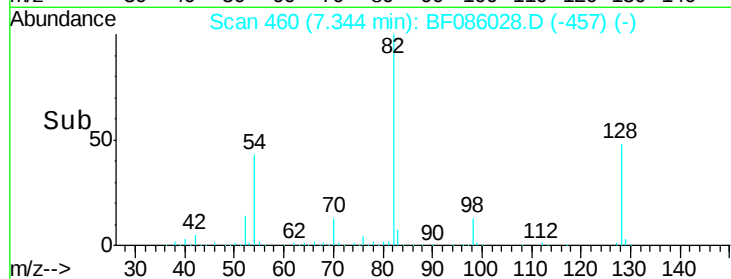
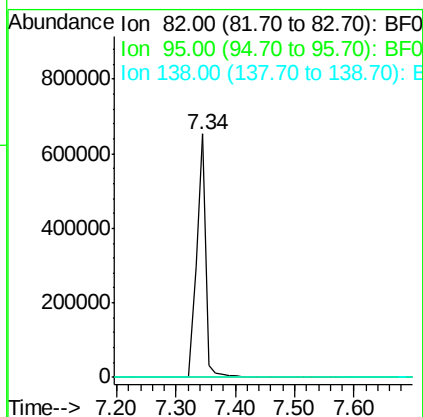
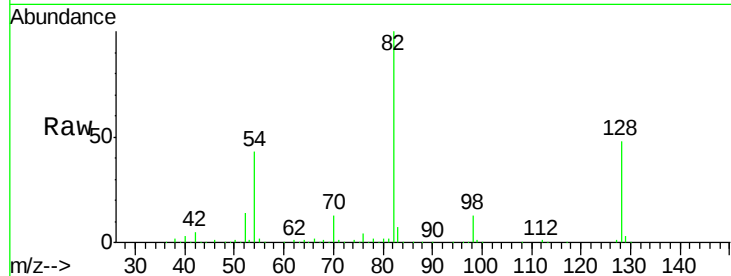




#25  
Isophorone  
Concen: 53.31 ng  
RT: 7.34 min Scan# 460  
Delta R.T. -0.26 min  
Lab File: BF086028.D  
Acq: 2 Apr 2016 23:02

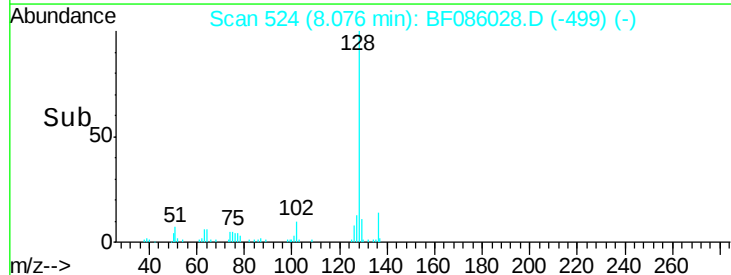
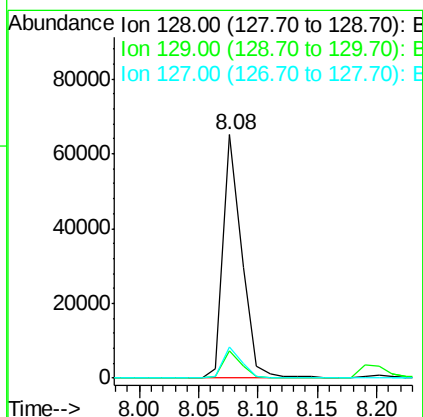
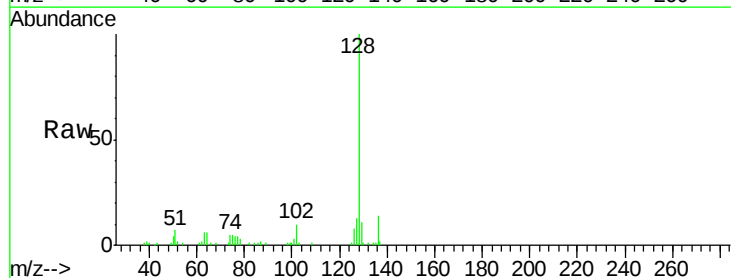
Instrument :  
BNA\_F  
ClientSampled :  
TP-6

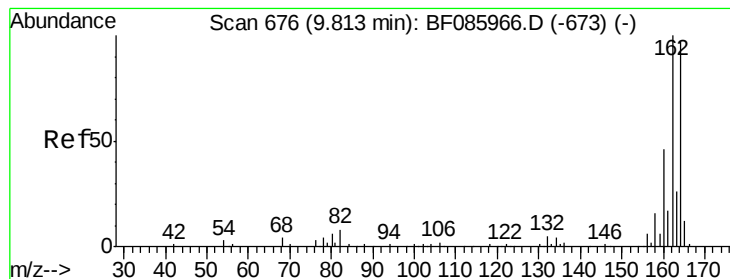
Tgt Ion: 82 Resp: 698073  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.2#  
138 0.0 12.9 19.3#



#31  
Naphthalene  
Concen: 3.59 ng  
RT: 8.08 min Scan# 524  
Delta R.T. -0.01 min  
Lab File: BF086028.D  
Acq: 2 Apr 2016 23:02

Tgt Ion: 128 Resp: 70662  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.4 14.0  
127 12.8 11.0 16.6





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 676

Delta R.T. 0.00 min

Lab File: BF086028.D

Acq: 2 Apr 2016 23:02

Instrument :

BNA\_F

ClientSampleId :

TP-6

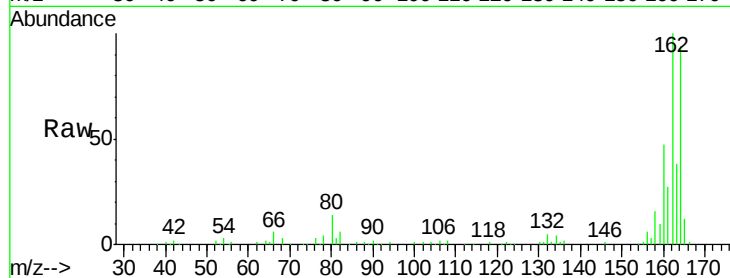
Tgt Ion:164 Resp: 173653

Ion Ratio Lower Upper

164 100

162 106.0 82.1 123.1

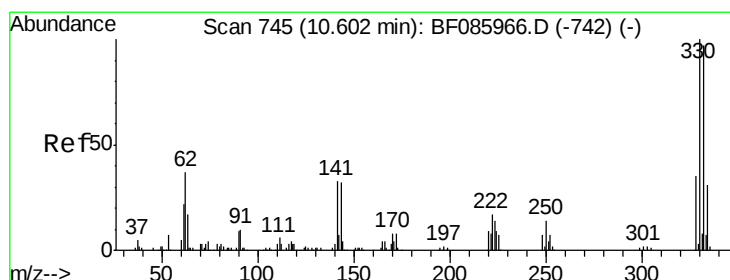
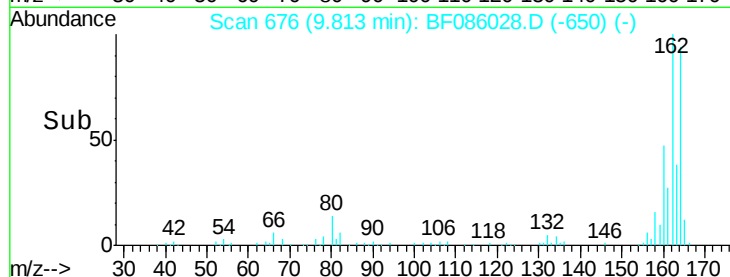
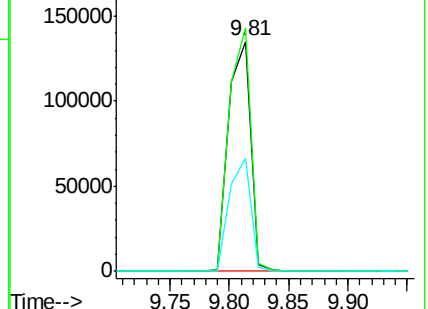
160 49.3 37.4 56.2



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: 166.99 ng

RT: 10.60 min Scan# 745

Delta R.T. 0.00 min

Lab File: BF086028.D

Acq: 2 Apr 2016 23:02

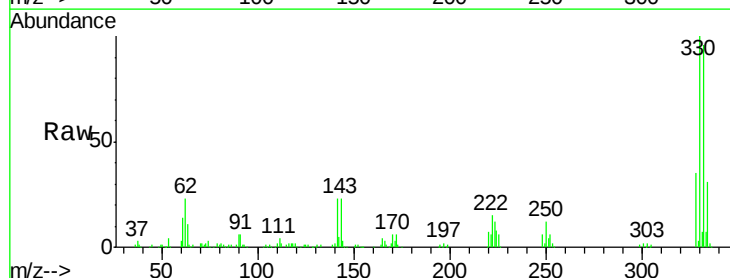
Tgt Ion:330 Resp: 272176

Ion Ratio Lower Upper

330 100

332 95.4 78.2 117.2

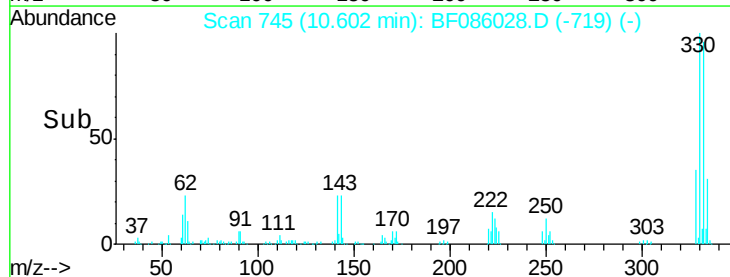
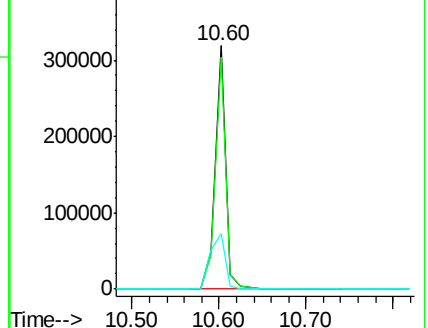
141 33.6 31.5 47.3

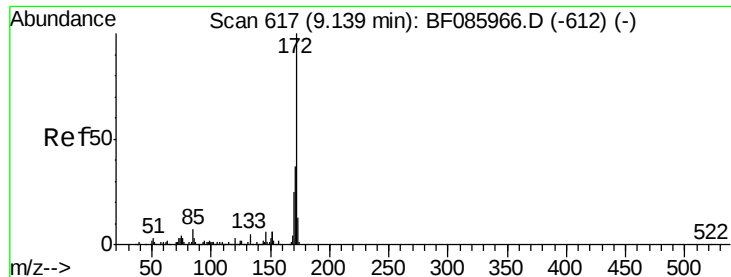


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

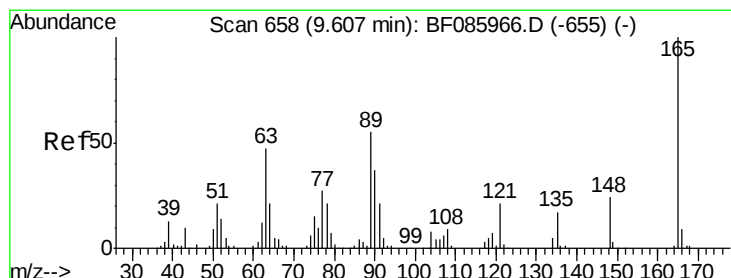
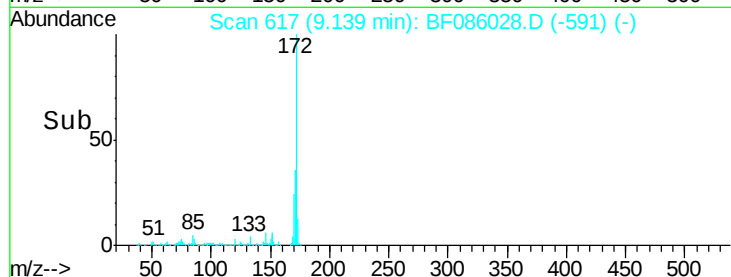
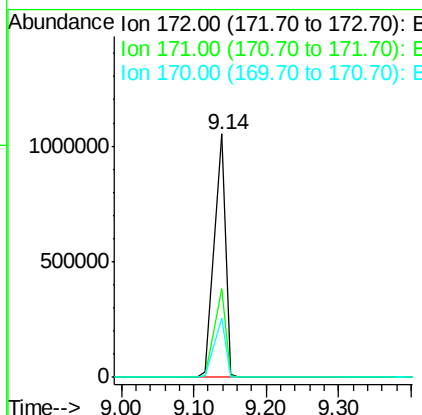
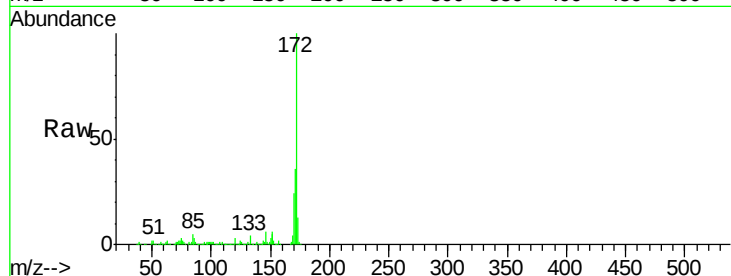




#44  
 2-Fluorobiphenyl  
 Concen: 110.54 ng  
 RT: 9.14 min Scan# 617  
 Delta R.T. -0.00 min  
 Lab File: BF086028.D  
 Acq: 2 Apr 2016 23:02

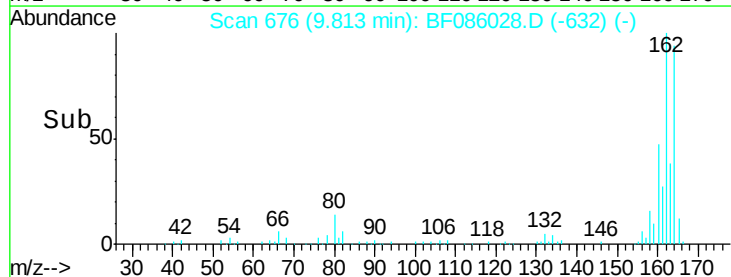
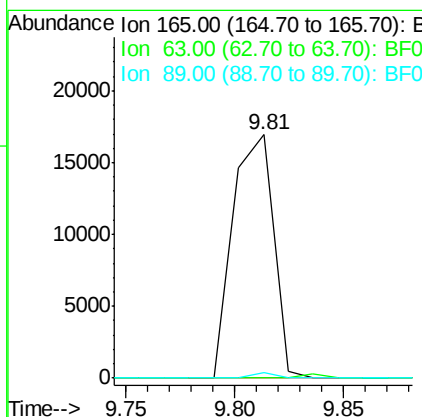
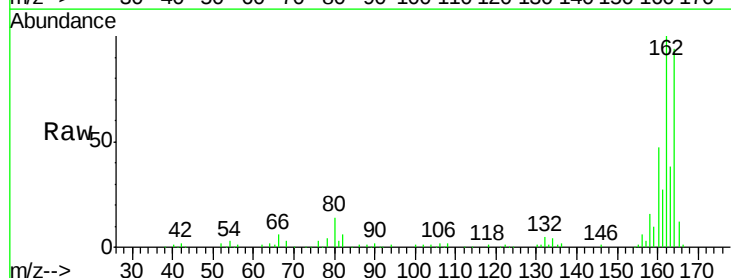
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6

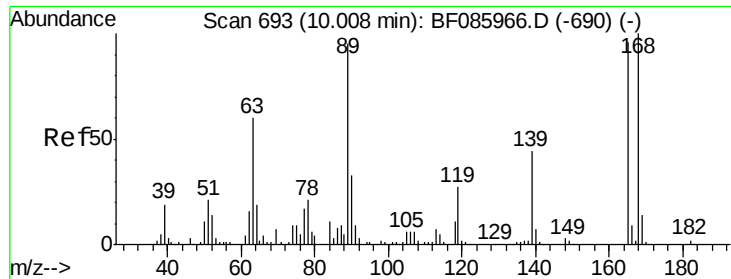
Tgt Ion:172 Resp: 1154523  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 29.4 44.2  
 170 24.5 19.8 29.6



#50  
 2,6-Dinitrotoluene  
 Concen: 8.09 ng  
 RT: 9.81 min Scan# 676  
 Delta R.T. 0.21 min  
 Lab File: BF086028.D  
 Acq: 2 Apr 2016 23:02

Tgt Ion:165 Resp: 22028  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 51.8 77.8#  
 89 2.2 53.7 80.5#

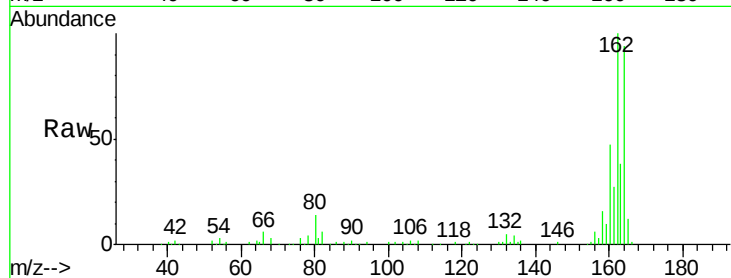




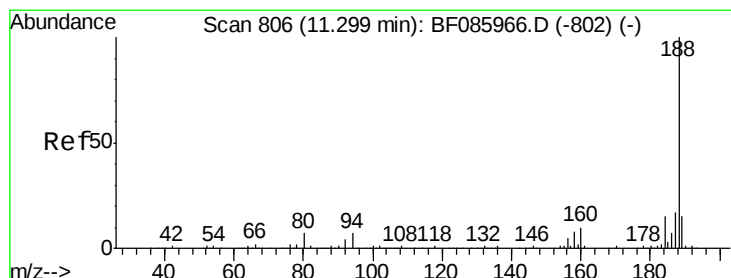
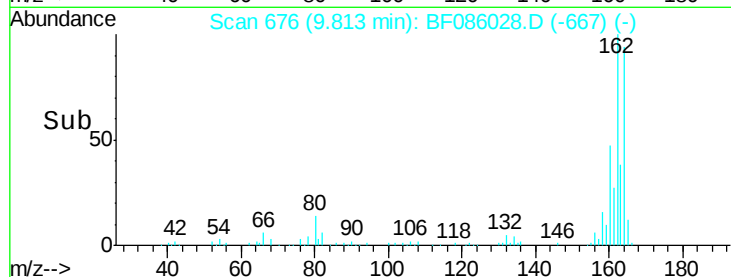
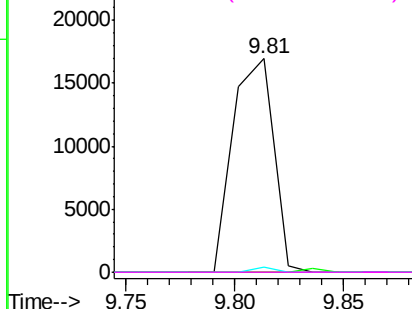
#56  
 2,4-Dinitrotoluene  
 Concen: 6.40 ng  
 RT: 9.81 min Scan# 676  
 Delta R.T. -0.19 min  
 Lab File: BF086028.D  
 Acq: 2 Apr 2016 23:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6

Tgt Ion:165 Resp: 22028  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 24.9 37.3#  
 89 2.2 41.0 61.6#  
 182 0.0 2.1 3.1#

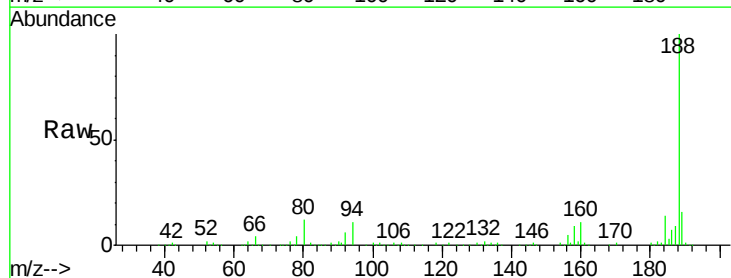


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

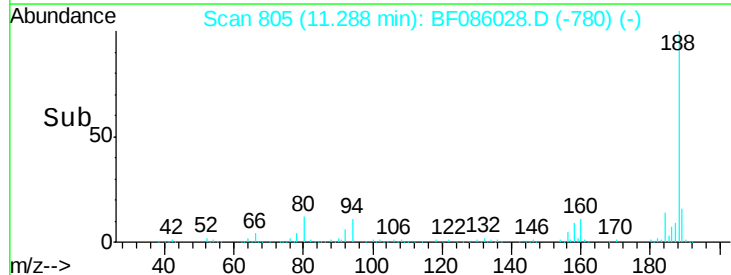
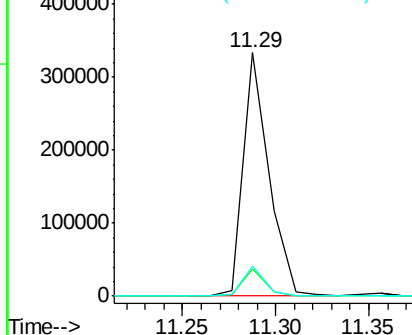


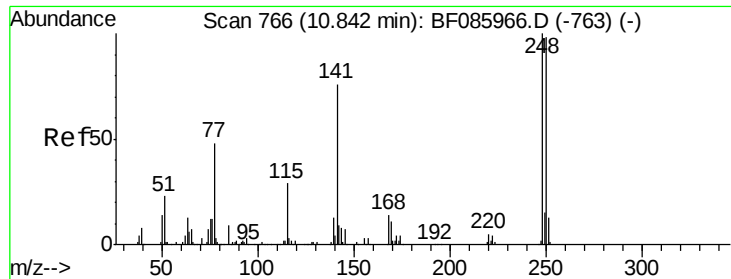
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.29 min Scan# 805  
 Delta R.T. -0.01 min  
 Lab File: BF086028.D  
 Acq: 2 Apr 2016 23:02

Tgt Ion:188 Resp: 319339  
 Ion Ratio Lower Upper  
 188 100  
 94 11.1 5.4 8.0#  
 80 12.4 5.5 8.3#



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

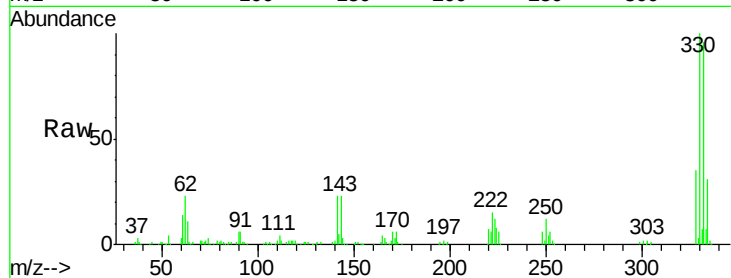




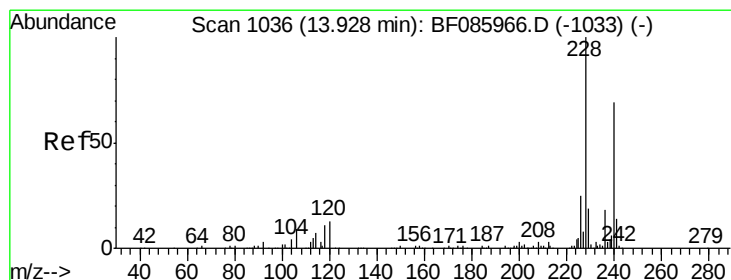
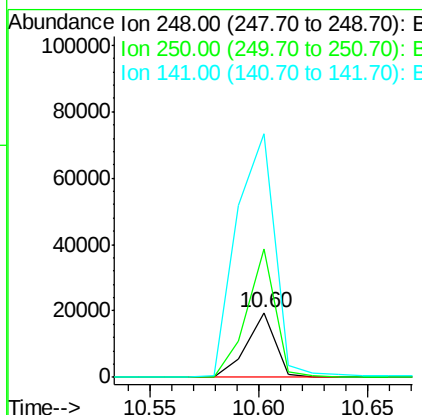
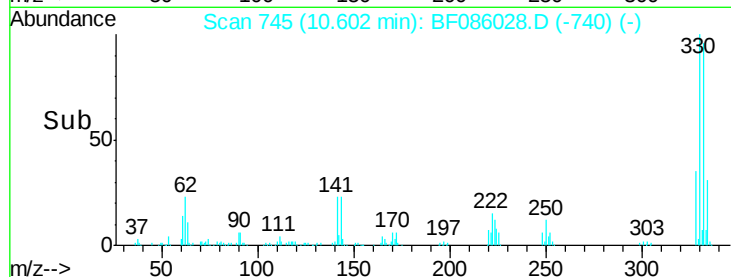
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.47 ng  
 RT: 10.60 min Scan# 745  
 Delta R.T. -0.24 min  
 Lab File: BF086028.D  
 Acq: 2 Apr 2016 23:02

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-6

Tgt Ion:248 Resp: 17843  
 Ion Ratio Lower Upper  
 248 100  
 250 199.8 77.4 116.0#  
 141 378.2 63.6 95.4#

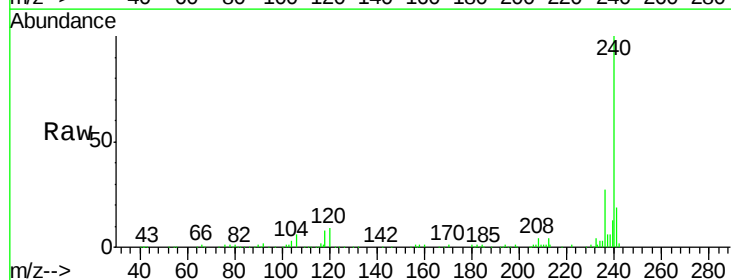


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

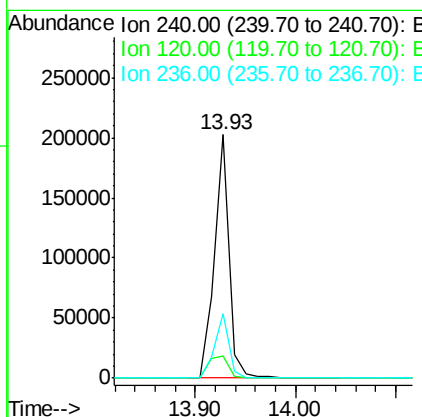
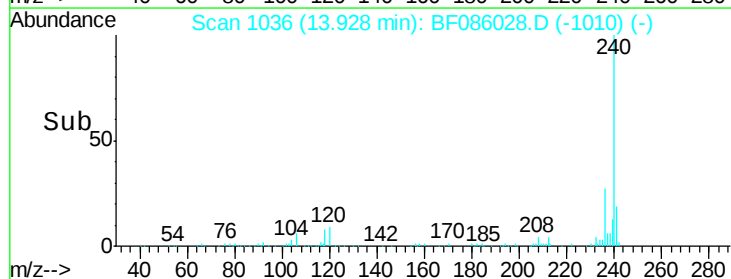


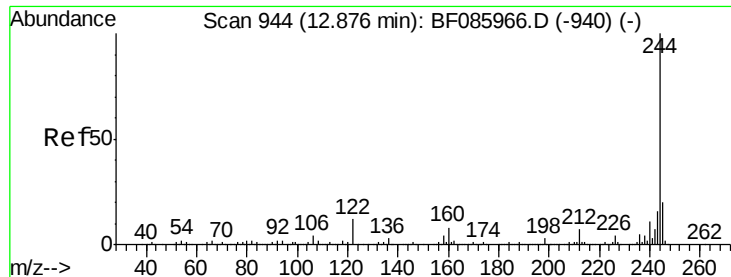
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.93 min Scan# 1036  
 Delta R.T. -0.00 min  
 Lab File: BF086028.D  
 Acq: 2 Apr 2016 23:02

Tgt Ion:240 Resp: 203355  
 Ion Ratio Lower Upper  
 240 100  
 120 9.3 13.8 20.8#  
 236 26.6 20.6 30.8



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

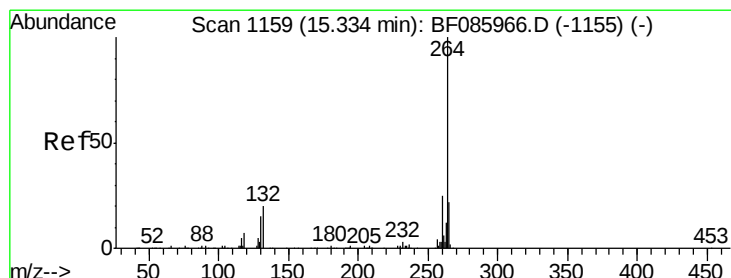
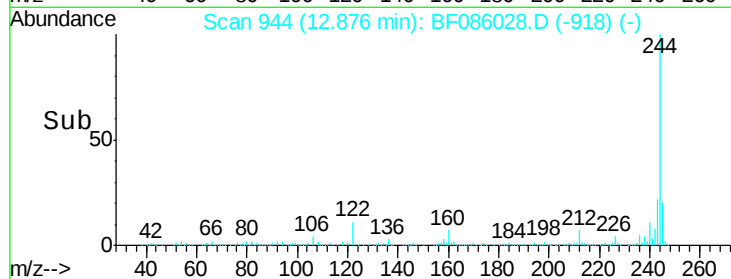
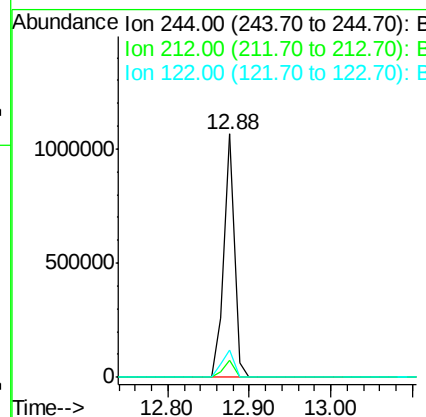
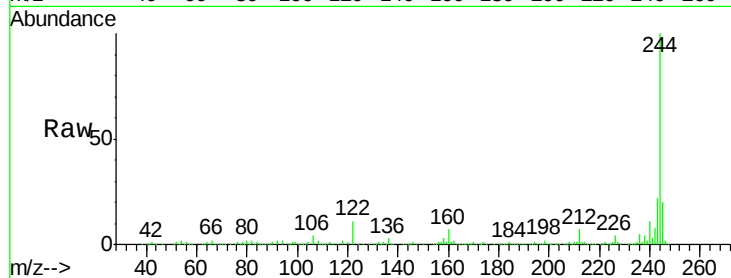




#78  
 Terphenyl-d14  
 Concen: 110.96 ng  
 RT: 12.88 min Scan# 944  
 Delta R.T. -0.00 min  
 Lab File: BF086028.D  
 Acq: 2 Apr 2016 23:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-6

Tgt Ion:244 Resp: 959869  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.1 9.1  
 122 11.2 10.2 15.4



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.33 min Scan# 1159  
 Delta R.T. -0.00 min  
 Lab File: BF086028.D  
 Acq: 2 Apr 2016 23:02

Tgt Ion:264 Resp: 170207  
 Ion Ratio Lower Upper  
 264 100  
 260 25.4 19.4 29.2  
 265 21.1 17.2 25.8

