

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121715\  
 Data File : BF083876.D  
 Acq On : 17 Dec 2015 9:08  
 Operator : UM/SJ  
 Sample : G4800-05  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 17 12:11:18 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 14 01:30:12 2015  
 Response via : Initial Calibration

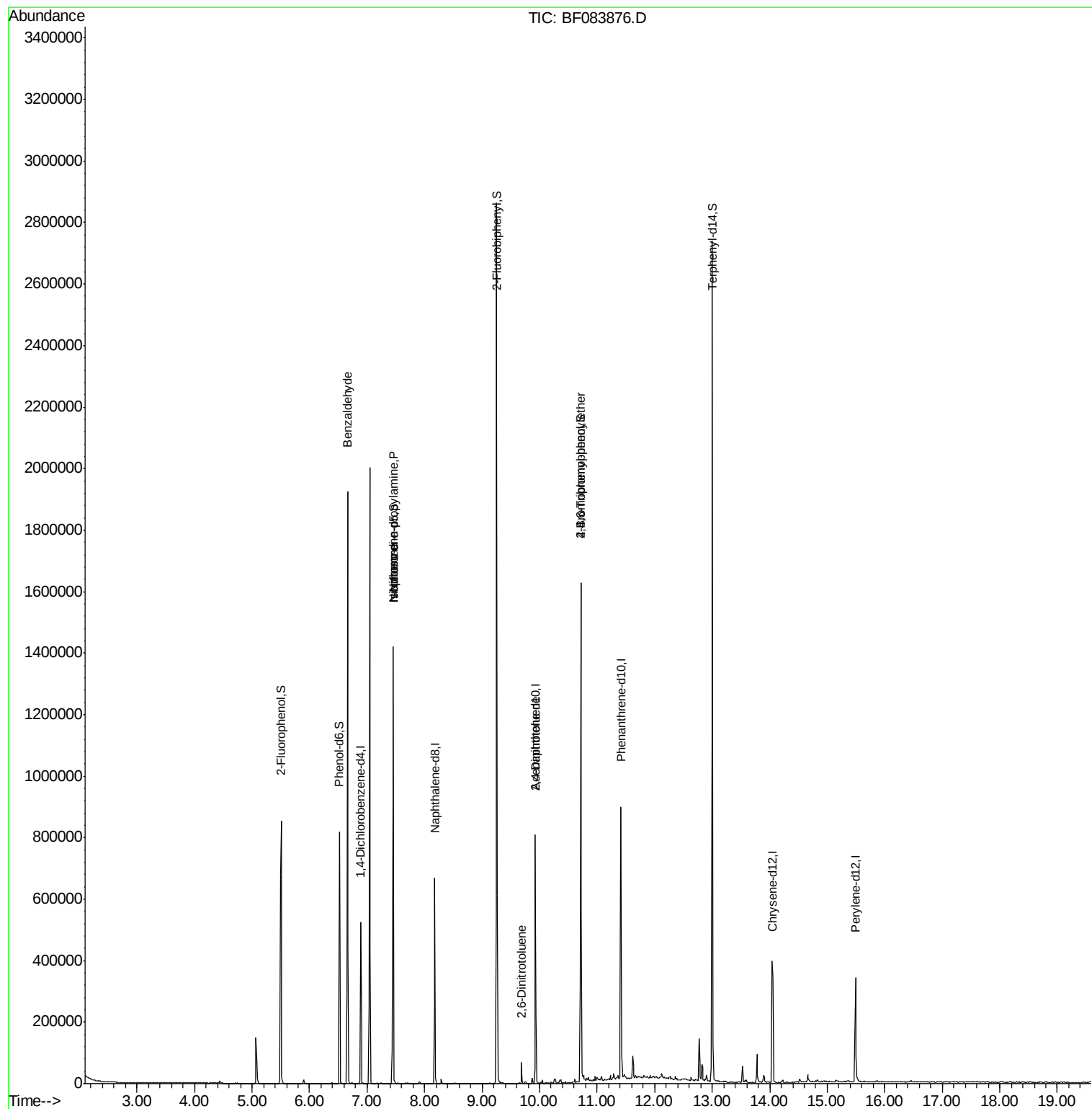
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 83460    | 20.00  | ng    | -0.03     |
| 21) Naphthalene-d8             | 8.18  | 136  | 339629   | 20.00  | ng    | -0.03     |
| 38) Acenaphthene-d10           | 9.93  | 164  | 159177   | 20.00  | ng    | -0.03     |
| 63) Phenanthrene-d10           | 11.41 | 188  | 298514   | 20.00  | ng    | -0.03     |
| 75) Chrysene-d12               | 14.05 | 240  | 193394   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12               | 15.49 | 264  | 160137   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.50  | 112  | 337557   | 65.25  | ng    | -0.02     |
| 7) Phenol-d6                   | 6.52  | 99   | 261437   | 39.90  | ng    | -0.02     |
| 23) Nitrobenzene-d5            | 7.46  | 82   | 592832   | 97.66  | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol       | 10.72 | 330  | 238190   | 146.85 | ng    | -0.03     |
| 44) 2-Fluorobiphenyl           | 9.25  | 172  | 954659   | 89.24  | ng    | -0.03     |
| 78) Terphenyl-d14              | 13.00 | 244  | 892410   | 99.26  | ng    | -0.02     |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 6.66  | 77   | 12619    | 3.59   | ng    | Qvalue 92 |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 80875    | 20.16  | ng    | # 67      |
| 25) Isophorone                 | 7.46  | 82   | 565185   | 47.45  | ng    | # 69      |
| 50) 2,6-Dinitrotoluene         | 9.69  | 165  | 7010     | 2.66   | ng    | # 16      |
| 56) 2,4-Dinitrotoluene         | 9.93  | 165  | 20439    | 5.94   | ng    | # 13      |
| 66) 4-Bromophenyl-phenylether  | 10.72 | 248  | 14437    | 4.33   | ng    | # 1       |

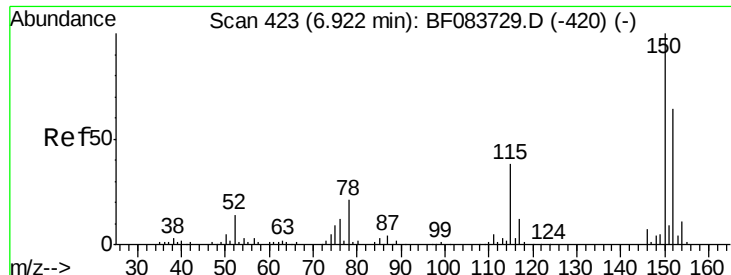
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
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QLast Update : Mon Dec 14 01:30:12 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 420

Delta R.T. -0.03 min

Lab File: BF083876.D

Acq: 17 Dec 2015 9:08

Instrument :

BNA\_F

ClientSampleId :

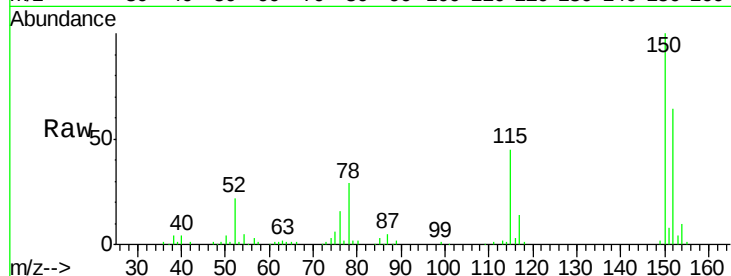
Tot Ion:152 Resp: 83460

Ion Ratio Lower Upper

152 100

150 155.7 126.5 189.7

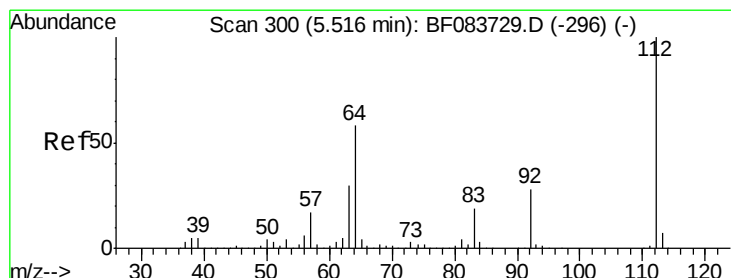
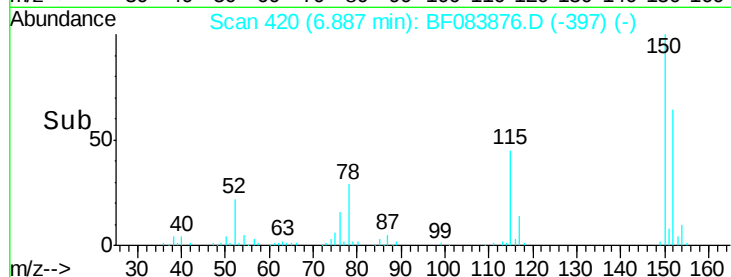
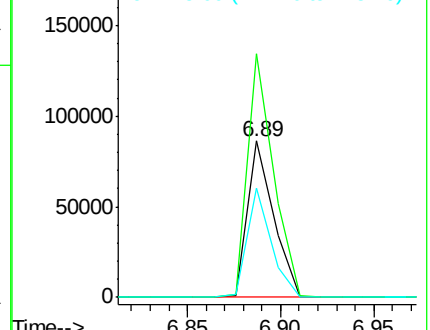
115 70.1 52.3 78.5



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: 65.25 ng

RT: 5.50 min Scan# 299

Delta R.T. -0.02 min

Lab File: BF083876.D

Acq: 17 Dec 2015 9:08

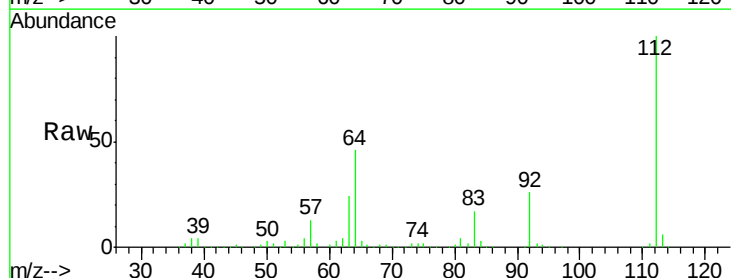
Tgt Ion:112 Resp: 337557

Ion Ratio Lower Upper

112 100

64 46.2 50.5 75.7#

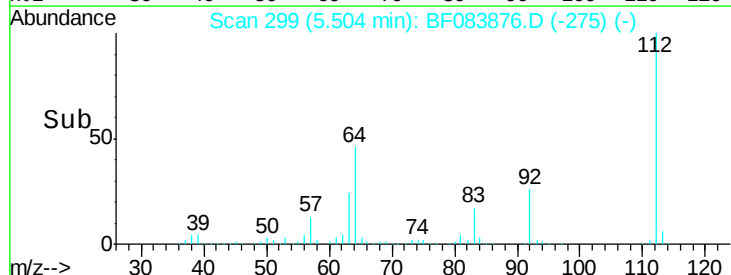
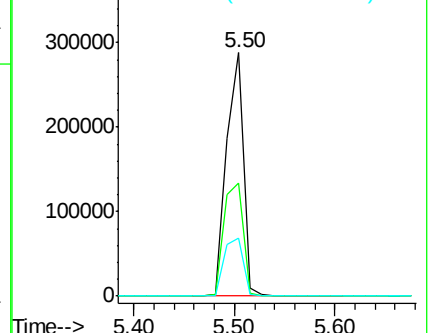
63 24.1 25.8 38.6#



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: 39.90 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083876.D

Acq: 17 Dec 2015 9:08

Instrument :

BNA\_F

ClientSampleId :

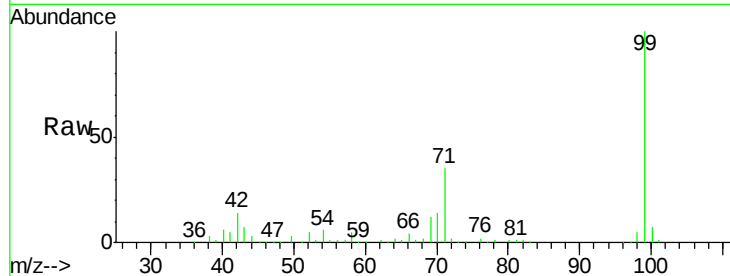
Tot Ion: 99 Resp: 261437

Ion Ratio Lower Upper

99 100

42 14.5 17.3 25.9#

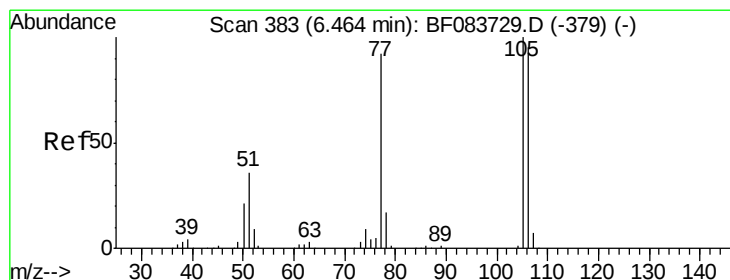
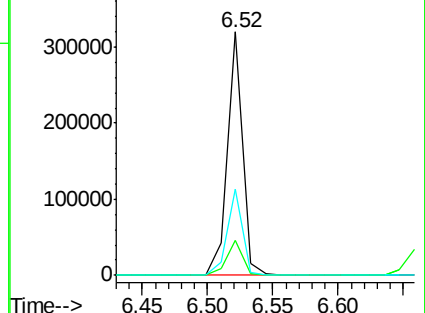
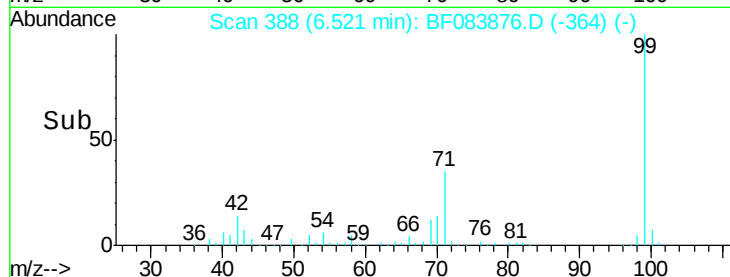
71 35.1 26.6 40.0



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



#9

Benzaldehyde

Concen: 3.59 ng

RT: 6.66 min Scan# 400

Delta R.T. 0.19 min

Lab File: BF083876.D

Acq: 17 Dec 2015 9:08

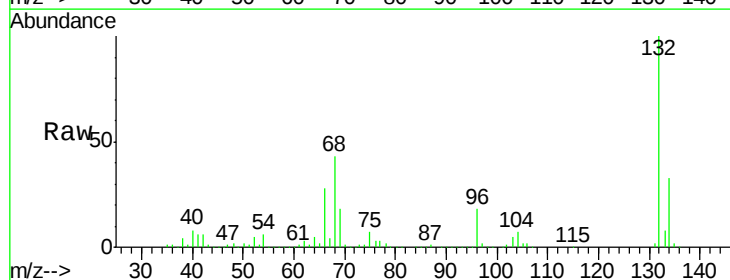
Tgt Ion: 77 Resp: 12619

Ion Ratio Lower Upper

77 100

105 81.4 71.8 111.8

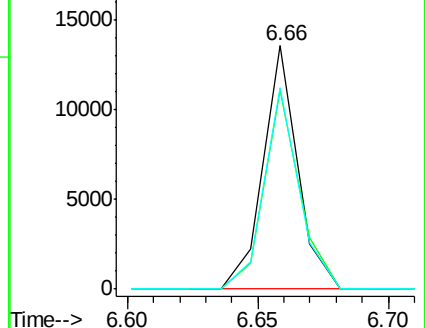
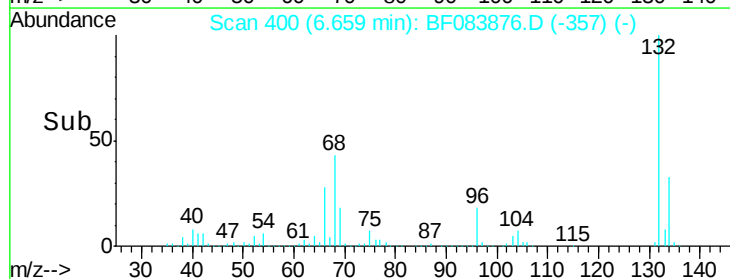
106 82.8 66.8 106.8

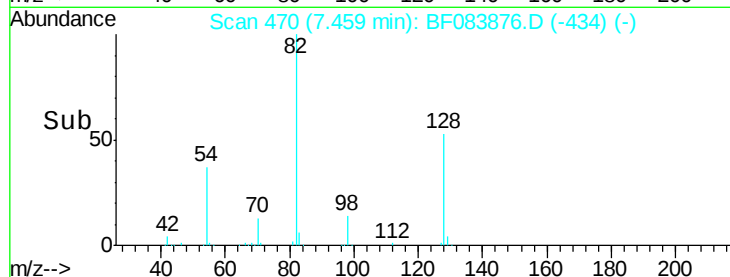
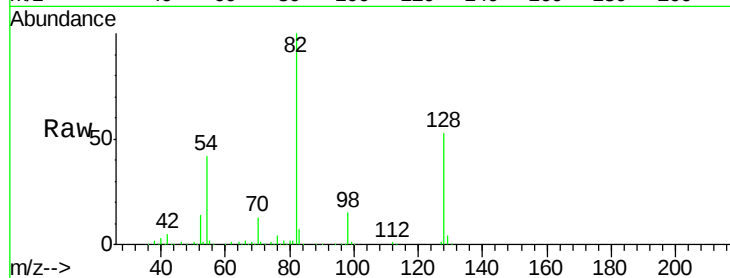
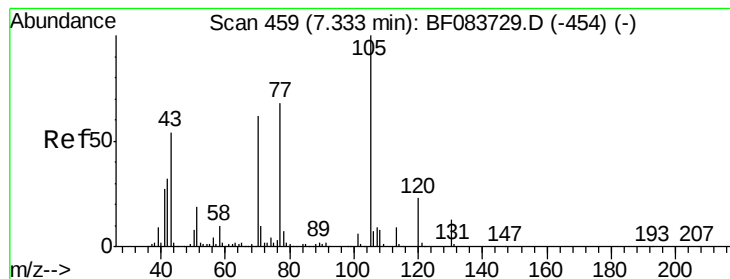


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 20.16 ng

RT: 7.46 min Scan# 470

Delta R.T. 0.11 min

Lab File: BF083876.D

Acq: 17 Dec 2015 9:08

Instrument :

BNA\_F

ClientSampled :

Tot Ion: 70 Resp: 80875

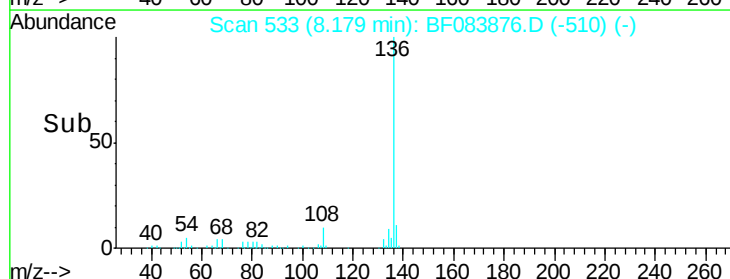
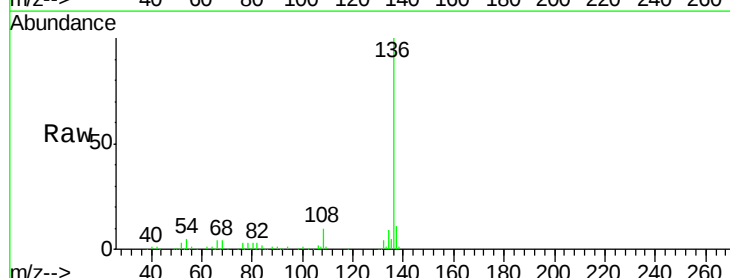
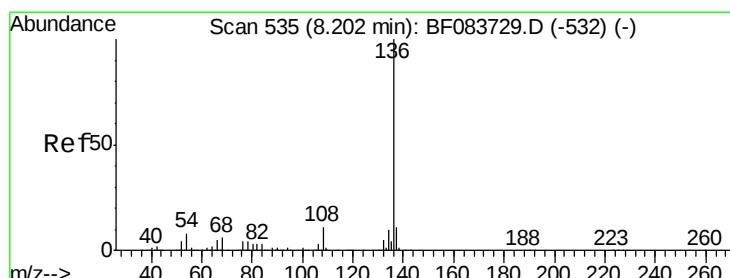
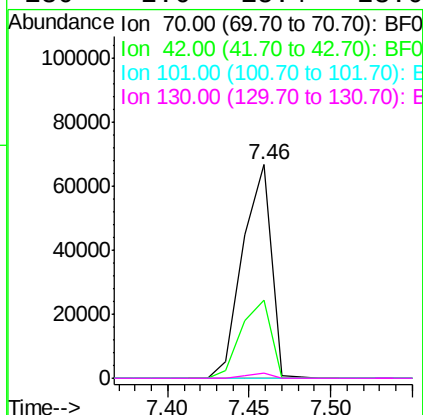
Ion Ratio Lower Upper

70 100

42 36.5 49.2 73.8#

101 0.0 7.1 10.7#

130 2.6 15.4 23.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

Delta R.T. -0.03 min

Lab File: BF083876.D

Acq: 17 Dec 2015 9:08

Tgt Ion:136 Resp: 339629

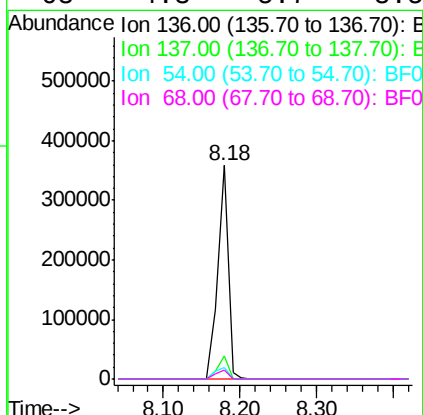
Ion Ratio Lower Upper

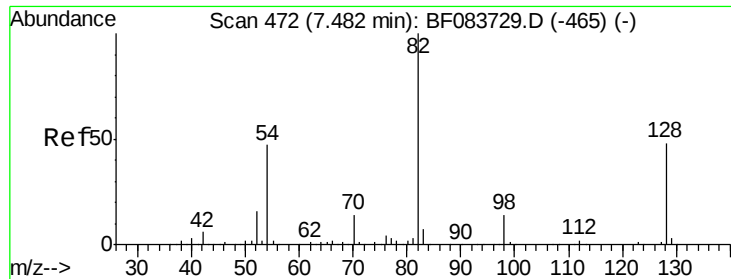
136 100

137 10.7 8.7 13.1

54 5.2 7.8 11.6#

68 4.3 5.7 8.5#

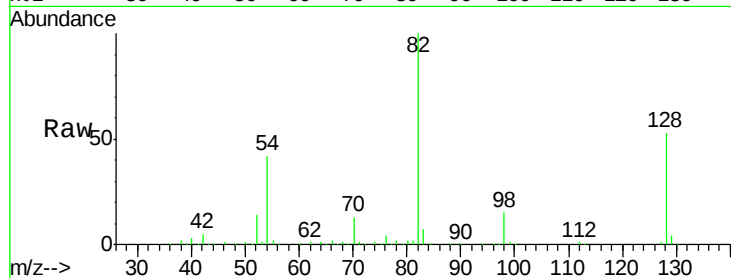




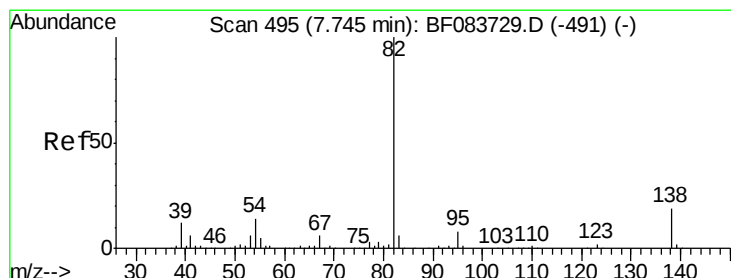
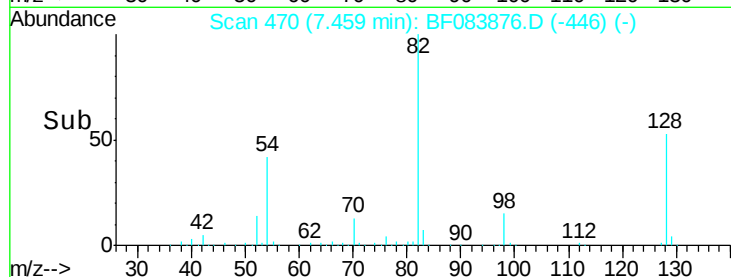
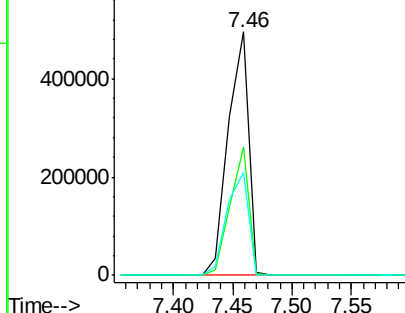
#23  
Nitrobenzene-d5  
Concen: 97.66 ng  
RT: 7.46 min Scan# 470  
Delta R.T. -0.02 min  
Lab File: BF083876.D  
Acq: 17 Dec 2015 9:08

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 82    | Resp: | 592832 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 52.7  | 30.7  | 46.1#  |
| 54       | 42.2  | 42.5  | 63.7#  |

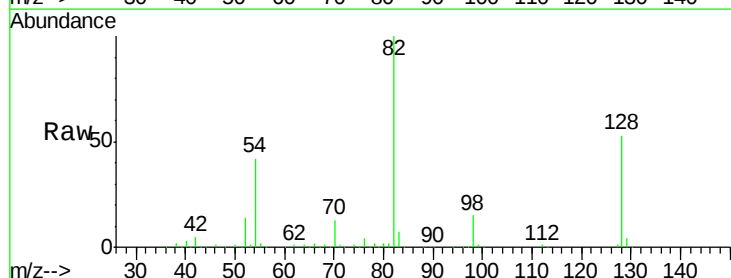


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): BF0  
Ion 54.00 (53.70 to 54.70): BF0

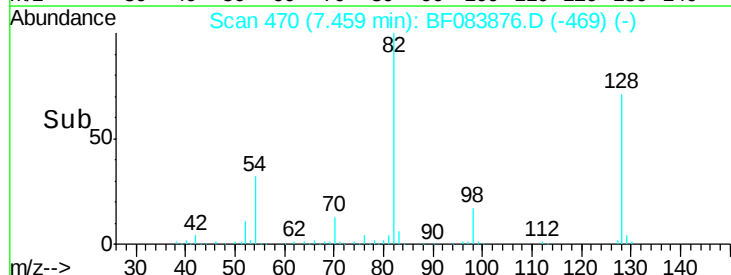
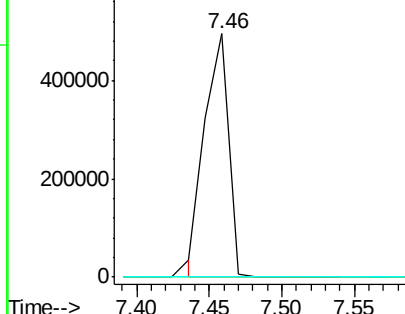


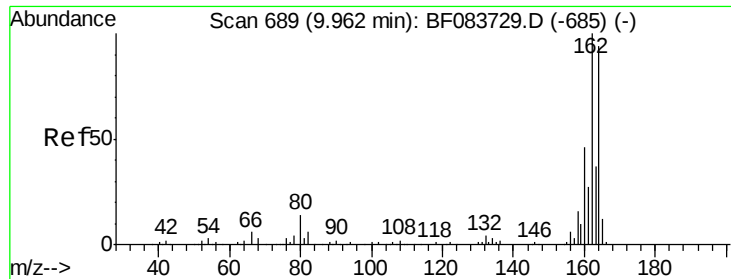
#25  
Isophorone  
Concen: 47.45 ng  
RT: 7.46 min Scan# 470  
Delta R.T. -0.29 min  
Lab File: BF083876.D  
Acq: 17 Dec 2015 9:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 565185 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 95       | 0.0   | 5.0   | 7.4#   |
| 138      | 0.0   | 12.1  | 18.1#  |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0

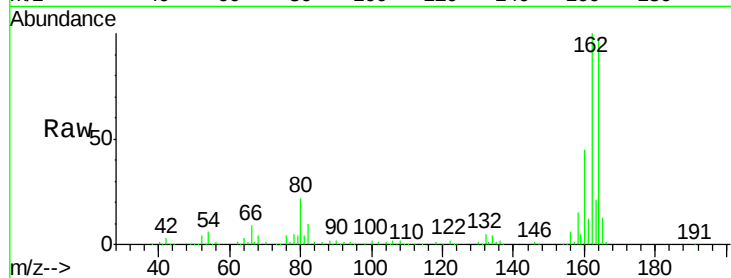




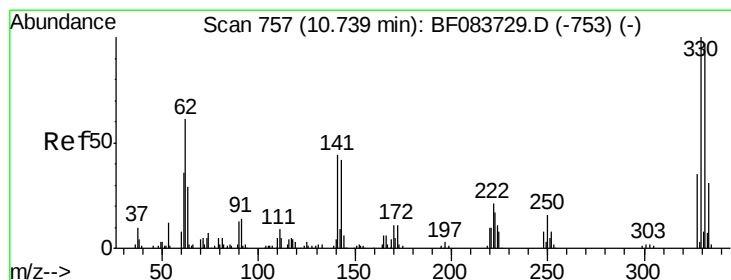
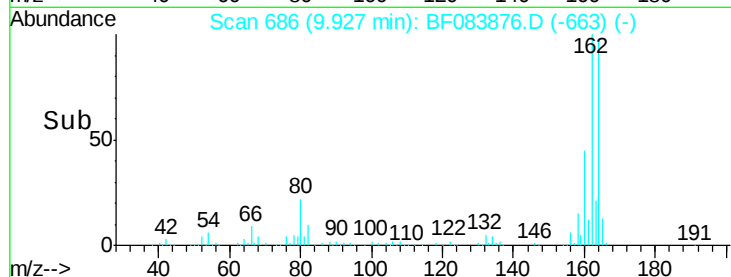
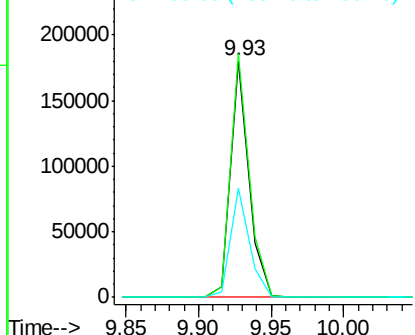
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.93 min Scan# 686  
Delta R.T. -0.03 min  
Lab File: BF083876.D  
Acq: 17 Dec 2015 9:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 159177  
Ion Ratio Lower Upper  
164 100  
162 103.1 78.8 118.2  
160 46.2 33.4 50.2

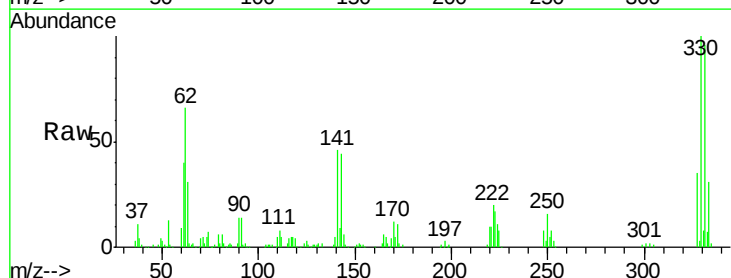


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

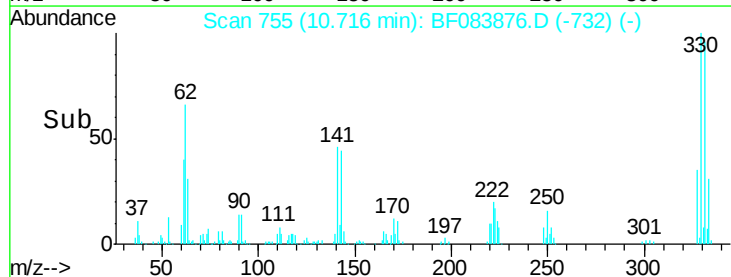
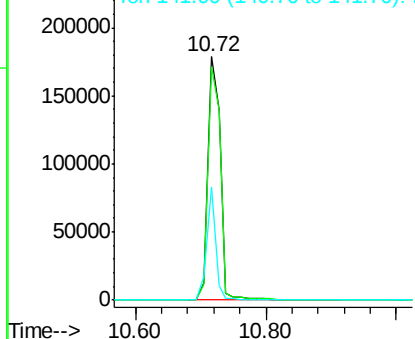


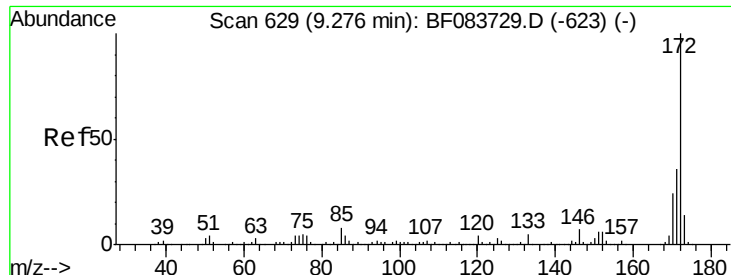
#41  
2,4,6-Tribromophenol  
Concen: 146.85 ng  
RT: 10.72 min Scan# 755  
Delta R.T. -0.03 min  
Lab File: BF083876.D  
Acq: 17 Dec 2015 9:08

Tgt Ion:330 Resp: 238190  
Ion Ratio Lower Upper  
330 100  
332 97.3 0.0 0.0#  
141 34.1 0.0 0.0#



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

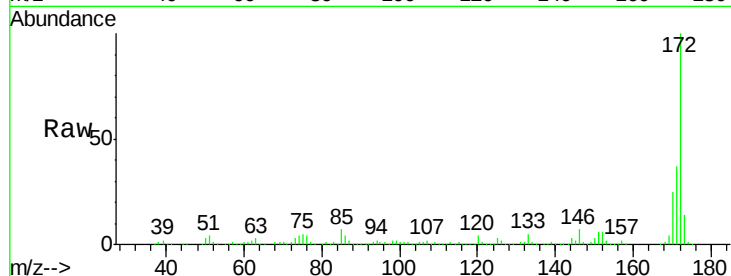




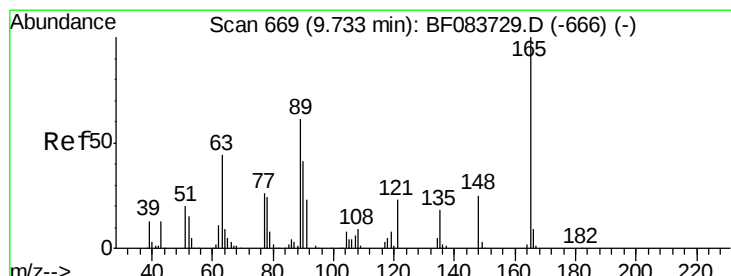
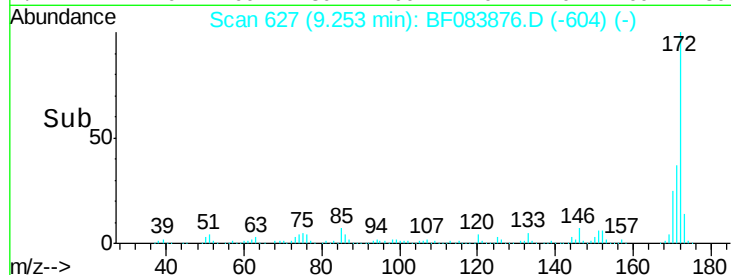
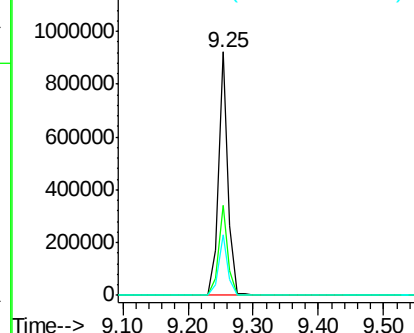
#44  
 2-Fluorobiphenyl  
 Concen: 89.24 ng  
 RT: 9.25 min Scan# 627  
 Delta R.T. -0.03 min  
 Lab File: BF083876.D  
 Acq: 17 Dec 2015 9:08

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 28.6  | 42.8  |
| 170     | 24.6  | 19.4  | 29.0  |

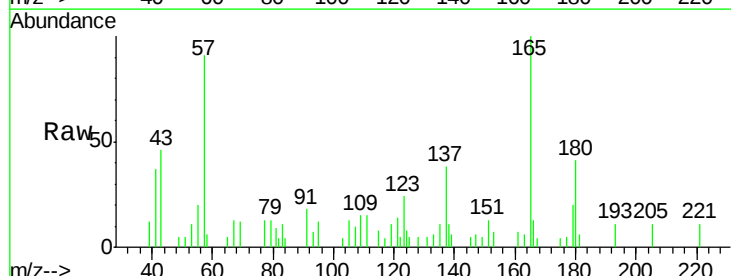


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

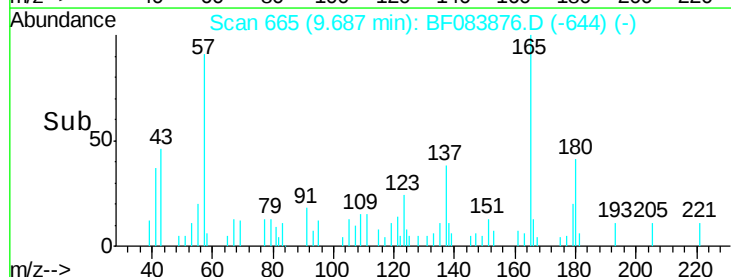
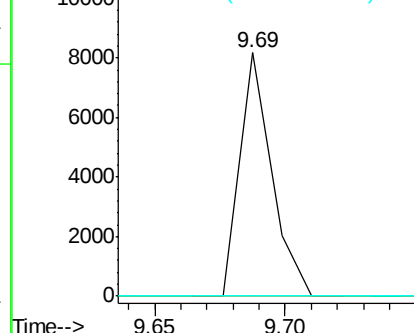


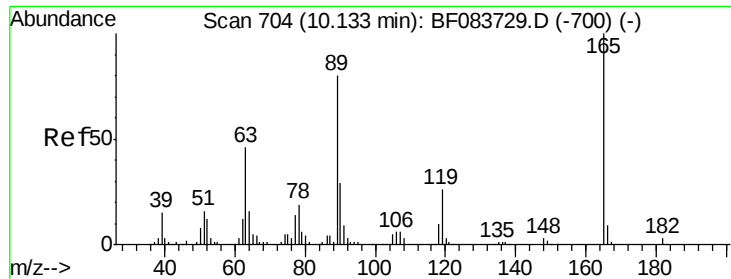
#50  
 2,6-Dinitrotoluene  
 Concen: 2.66 ng  
 RT: 9.69 min Scan# 665  
 Delta R.T. -0.06 min  
 Lab File: BF083876.D  
 Acq: 17 Dec 2015 9:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 56.9  | 85.3# |
| 89      | 0.0   | 52.1  | 78.1# |



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

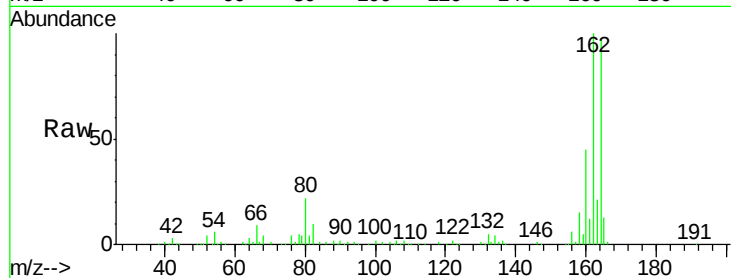




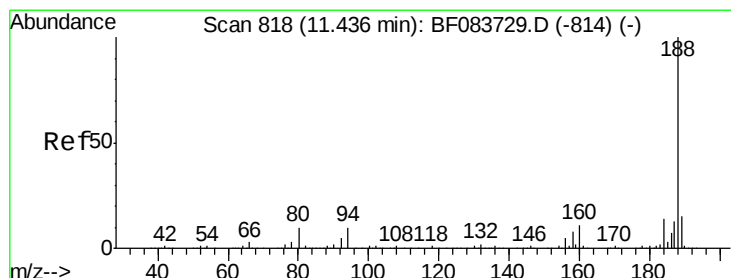
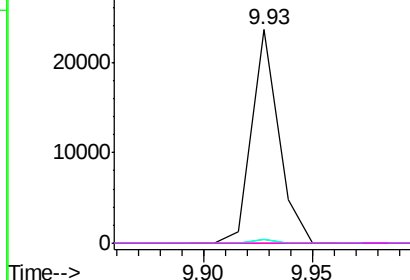
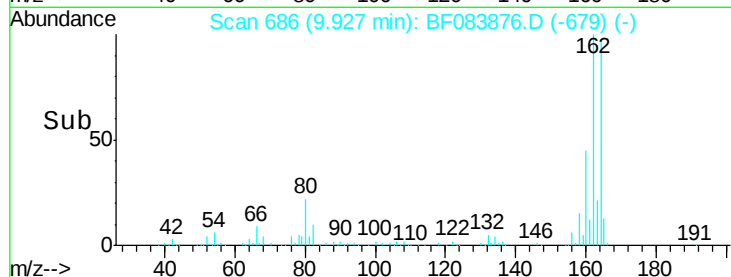
#56  
 2,4-Dinitrotoluene  
 Concen: 5.94 ng  
 RT: 9.93 min Scan# 686  
 Delta R.T. -0.22 min  
 Lab File: BF083876.D  
 Acq: 17 Dec 2015 9:08

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 20439  
 Ion Ratio Lower Upper  
 165 100  
 63 1.8 51.4 77.2#  
 89 1.6 72.6 108.8#  
 182 0.0 1.4 2.0#

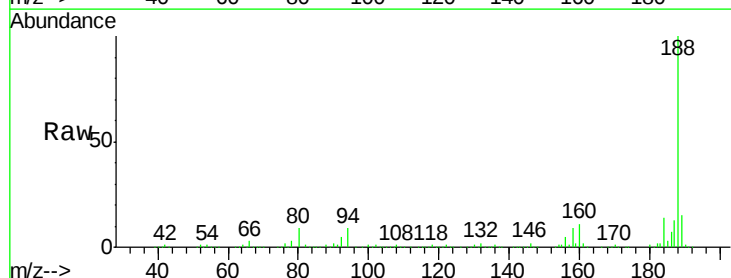


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

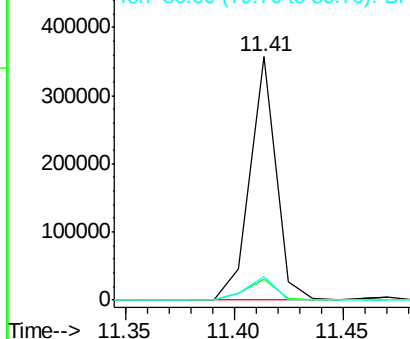
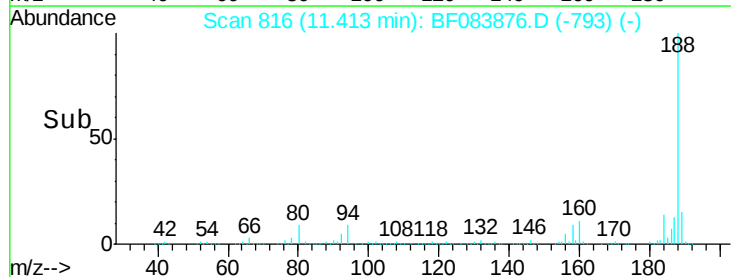


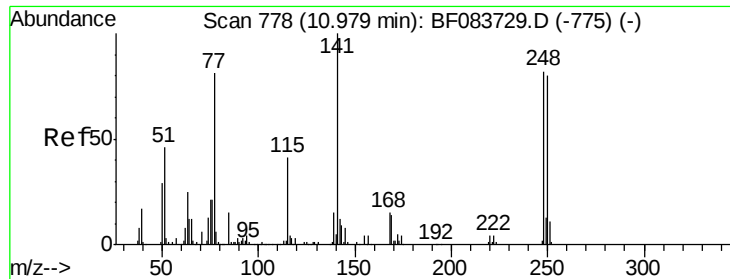
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.41 min Scan# 816  
 Delta R.T. -0.03 min  
 Lab File: BF083876.D  
 Acq: 17 Dec 2015 9:08

Tgt Ion:188 Resp: 298514  
 Ion Ratio Lower Upper  
 188 100  
 94 8.6 9.4 14.2#  
 80 9.4 10.6 16.0#



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

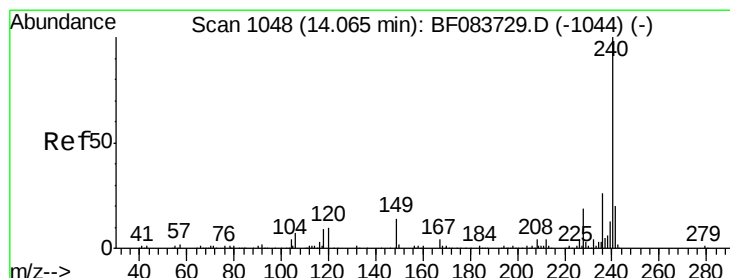
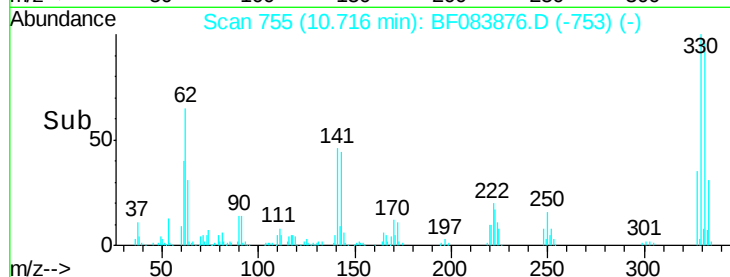
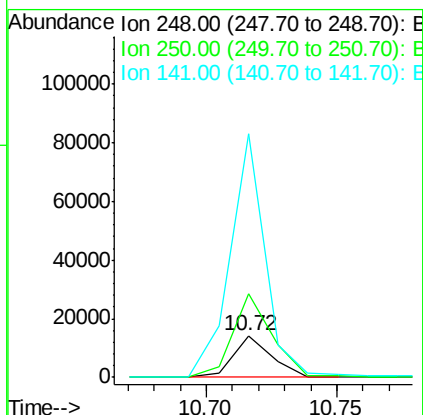
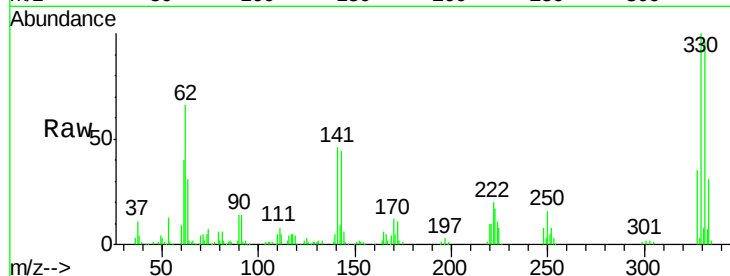




#66  
4-Bromophenyl-phenylether  
Concen: 4.33 ng  
RT: 10.72 min Scan# 755  
Delta R.T. -0.27 min  
Lab File: BF083876.D  
Acq: 17 Dec 2015 9:08

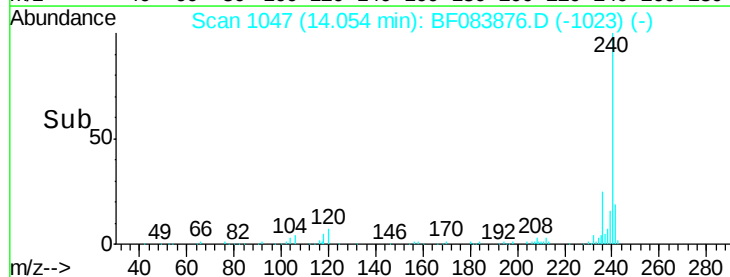
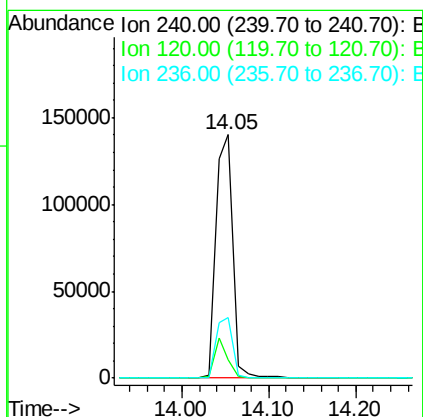
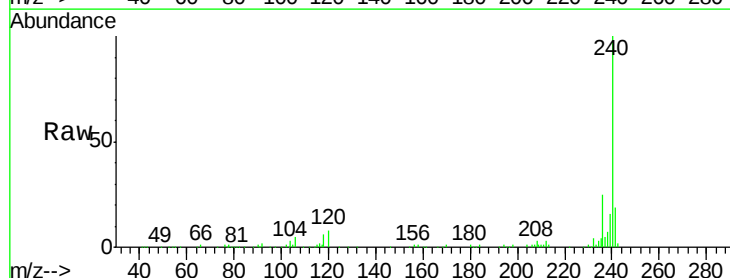
Instrument :  
BNA\_F  
ClientSampled :

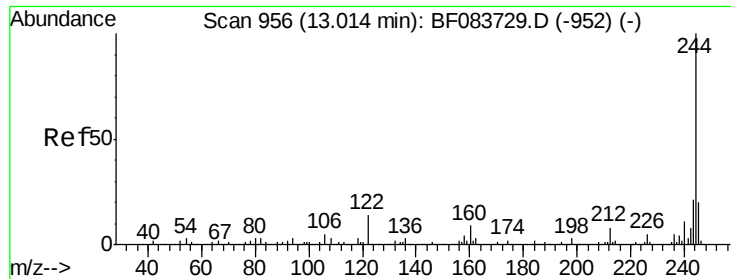
Tot Ion:248 Resp: 14437  
Ion Ratio Lower Upper  
248 100  
250 199.7 79.2 118.8#  
141 581.5 58.2 87.4#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.05 min Scan# 1047  
Delta R.T. -0.02 min  
Lab File: BF083876.D  
Acq: 17 Dec 2015 9:08

Tgt Ion:240 Resp: 193394  
Ion Ratio Lower Upper  
240 100  
120 7.5 8.1 12.1#  
236 24.7 20.8 31.2

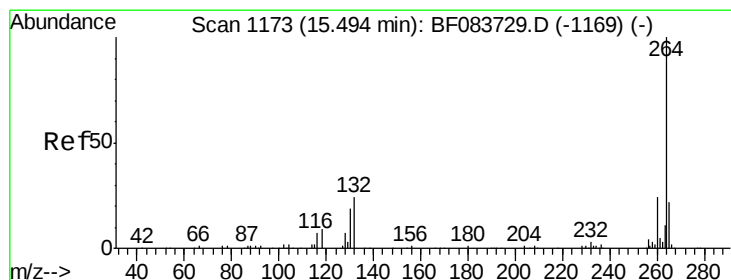
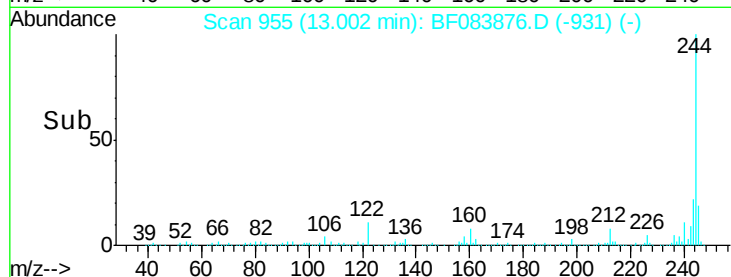
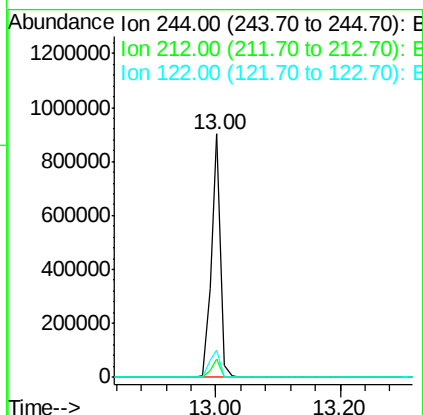
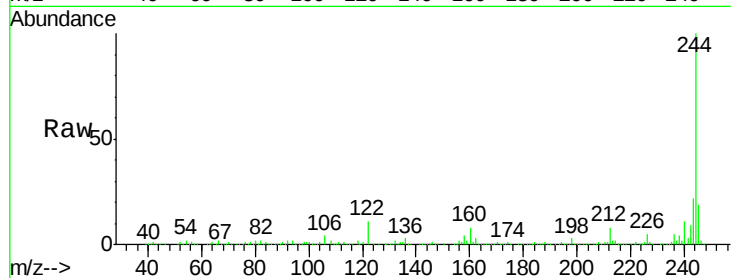




#78  
 Terphenyl-d14  
 Concen: 99.26 ng  
 RT: 13.00 min Scan# 955  
 Delta R.T. -0.02 min  
 Lab File: BF083876.D  
 Acq: 17 Dec 2015 9:08

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 892410  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 6.1 9.1  
 122 11.4 11.0 16.6



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.49 min Scan# 1173  
 Delta R.T. -0.01 min  
 Lab File: BF083876.D  
 Acq: 17 Dec 2015 9:08

Tgt Ion:264 Resp: 160137  
 Ion Ratio Lower Upper  
 264 100  
 260 24.0 19.4 29.0  
 265 21.6 17.8 26.6

