

Data Path : V:\HPCHEM1\BNA F\DATA\BF112015\  
 Data File : BF083086.D  
 Acq On : 20 Nov 2015 17:21  
 Operator : UM/IZ  
 Sample : G4452-08  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RW-20151116-08

Quant Time: Nov 20 23:35:54 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF111915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 20 01:33:39 2015  
 Response via : Initial Calibration

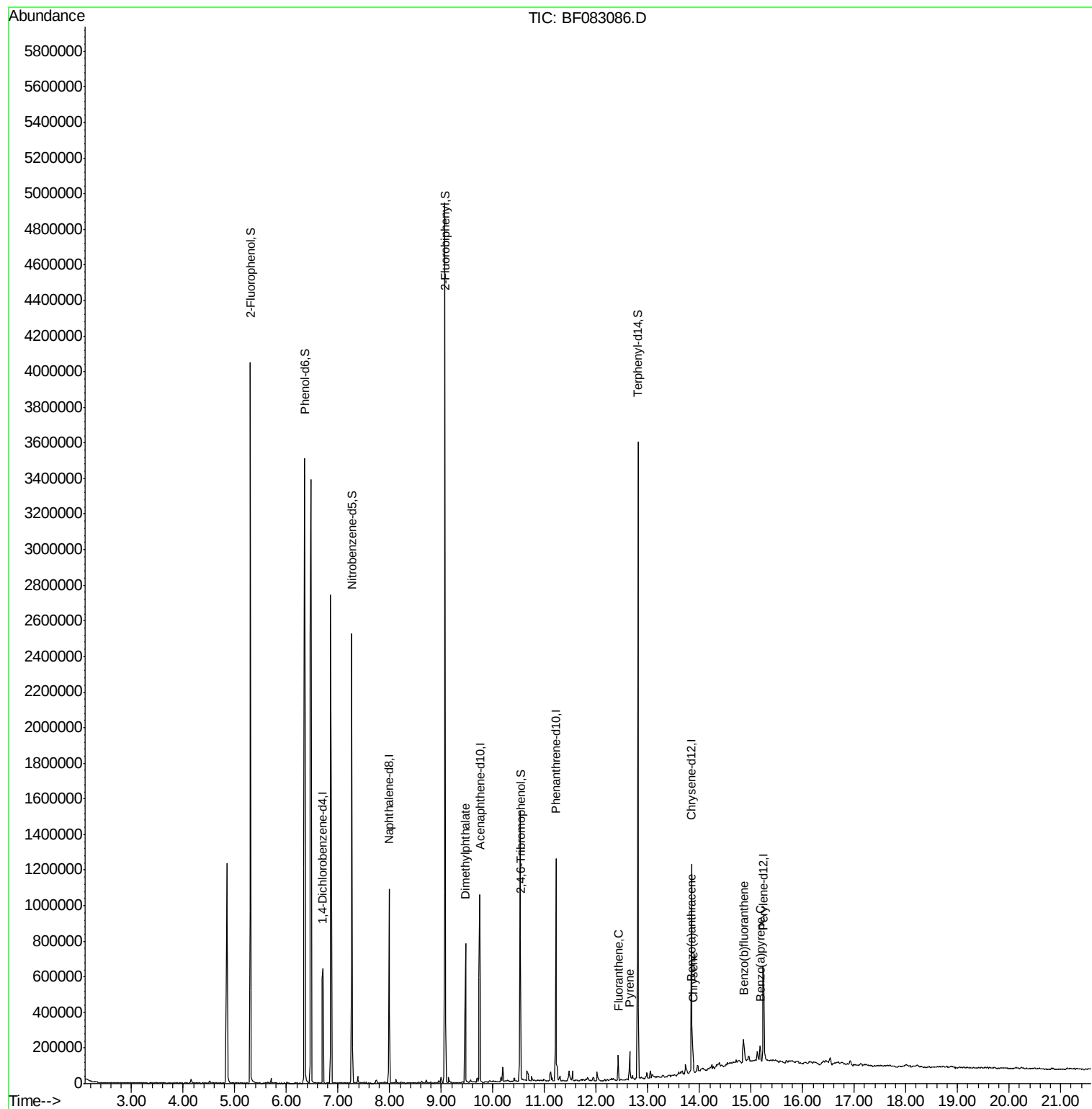
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.70  | 152  | 140018   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.98  | 136  | 514983   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.74  | 164  | 251437   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.22 | 188  | 426931   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.85 | 240  | 365886   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.24 | 264  | 301509   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.30  | 112  | 1030860  | 114.35 | ng    | 0.01     |
| 7) Phenol-d6                | 6.35  | 99   | 1381125  | 116.32 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.26  | 82   | 829133   | 73.71  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.53 | 330  | 202311   | 75.78  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.07  | 172  | 1412527  | 75.66  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.81 | 244  | 1014438  | 65.45  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.47  | 163  | 390246   | 18.86  | ng    | # 98     |
| 74) Fluoranthene            | 12.43 | 202  | 73836    | 2.75   | ng    | 96       |
| 77) Pyrene                  | 12.65 | 202  | 65592    | 2.55   | ng    | 95       |
| 80) Benzo(a)anthracene      | 13.84 | 228  | 72875    | 3.13   | ng    | 99       |
| 82) Chrysene                | 13.87 | 228  | 50039m   | 2.35   | ng    |          |
| 87) Benzo(b)fluoranthene    | 14.85 | 252  | 68432m   | 3.25   | ng    |          |
| 89) Benzo(a)pyrene          | 15.17 | 252  | 45129    | 2.67   | ng    | # 90     |

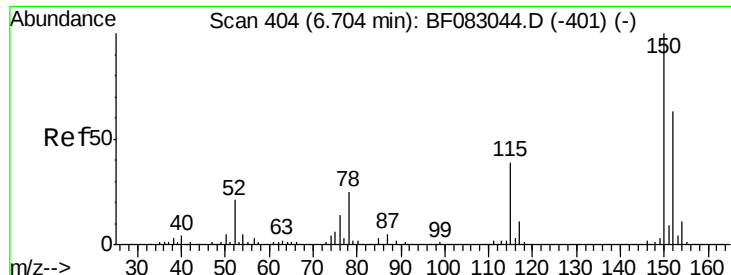
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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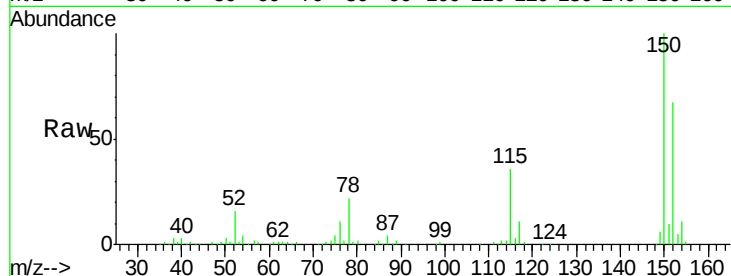


#1

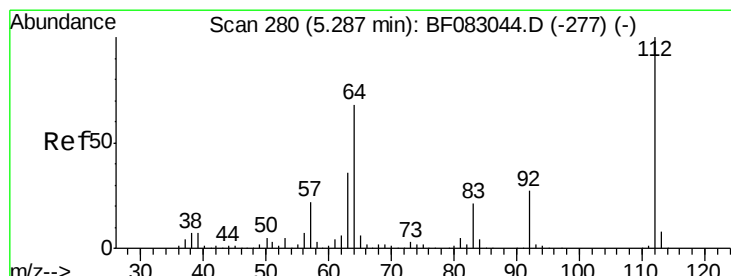
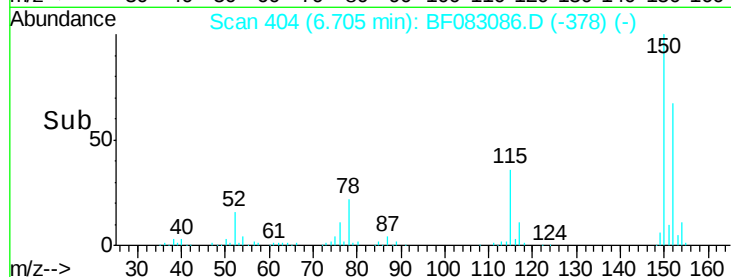
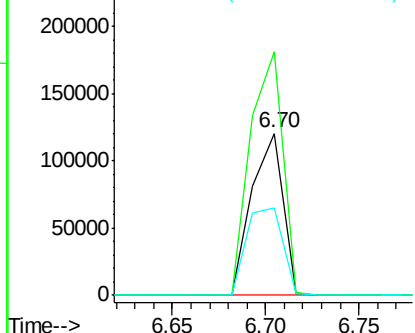
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.70 min Scan# 404  
Delta R.T. 0.00 min  
Lab File: BF083086.D  
Acq: 20 Nov 2015 17:21

Instrument :  
BNA\_F  
ClientSampleId :  
RW-20151116-08

Tot Ion:152 Resp: 140018  
Ion Ratio Lower Upper  
152 100  
150 150.1 126.4 189.6  
115 54.3 49.0 73.6



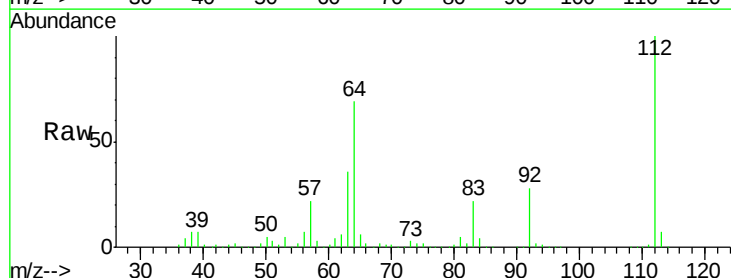
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



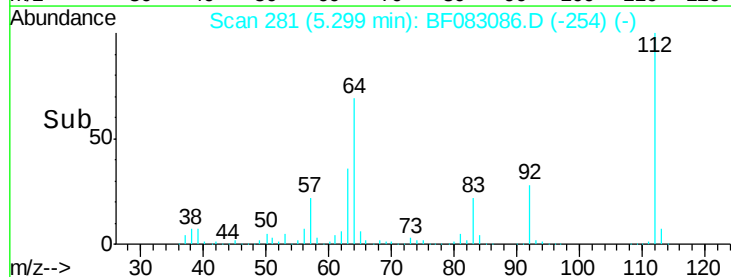
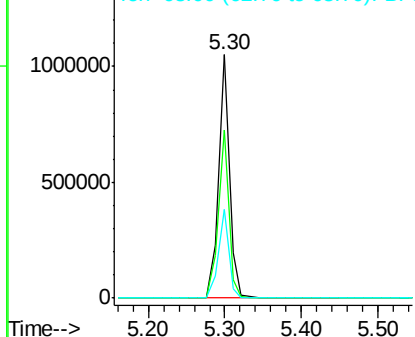
#5

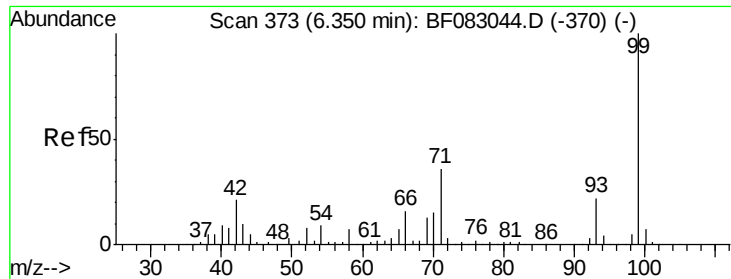
2-Fluorophenol  
Concen: 114.35 ng  
RT: 5.30 min Scan# 281  
Delta R.T. 0.01 min  
Lab File: BF083086.D  
Acq: 20 Nov 2015 17:21

Tgt Ion:112 Resp: 1030860  
Ion Ratio Lower Upper  
112 100  
64 69.0 54.8 82.2  
63 36.2 29.0 43.4



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: 116.32 ng

RT: 6.35 min Scan# 373

Delta R.T. 0.00 min

Lab File: BF083086.D

Acq: 20 Nov 2015 17:21

Instrument :

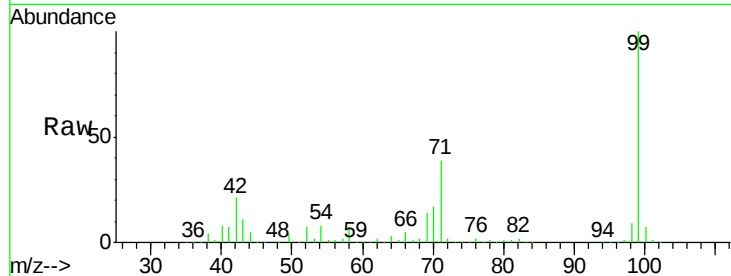
BNA\_F

ClientSampleId :

RW-20151116-08

Tot Ion: 99 Resp: 1381125

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.2  | 16.6  | 25.0  |
| 71  | 38.7  | 29.2  | 43.8  |

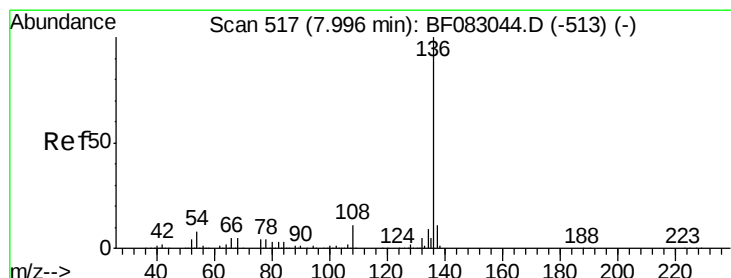
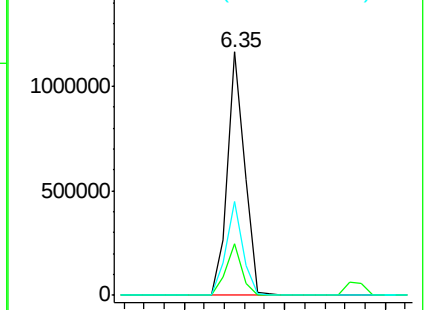
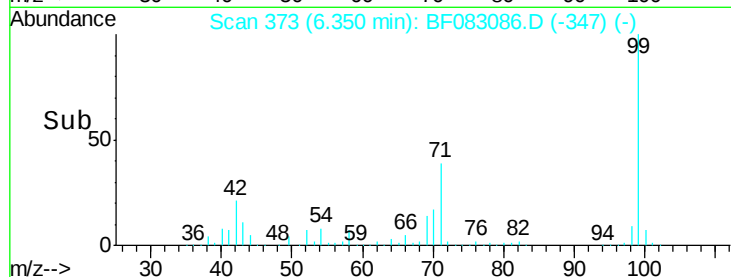


Abundance

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: 7.98 min Scan# 516

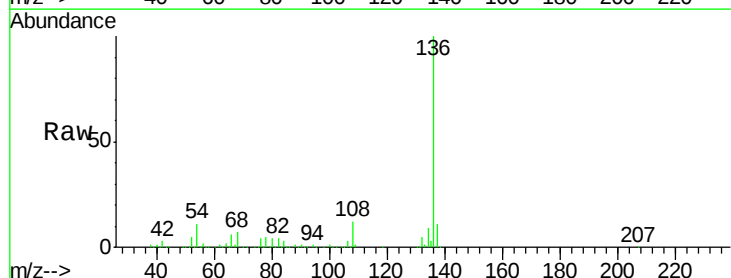
Delta R.T. -0.01 min

Lab File: BF083086.D

Acq: 20 Nov 2015 17:21

Tgt Ion: 136 Resp: 514983

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.0  | 8.6   | 12.8  |
| 54  | 10.9  | 6.2   | 9.2#  |
| 68  | 7.2   | 4.2   | 6.2#  |



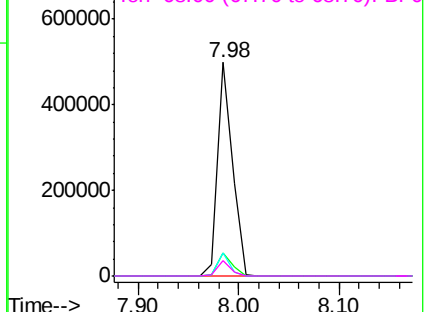
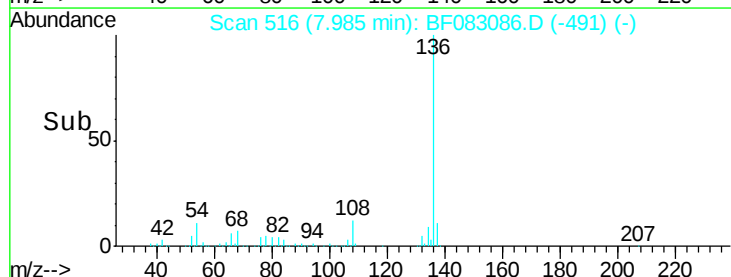
Abundance

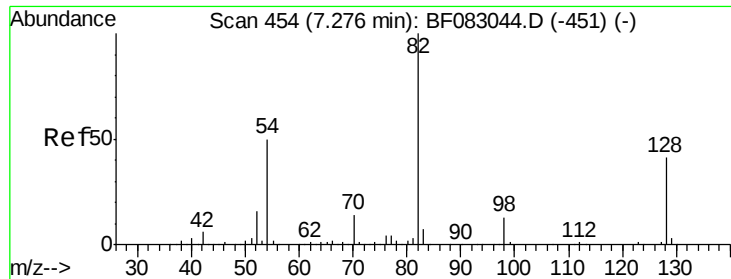
Ion 136.00 (135.70 to 136.70): E

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

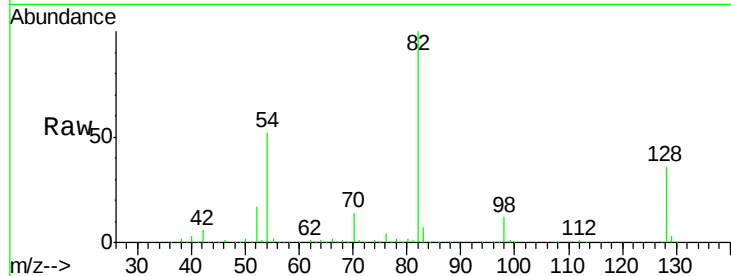




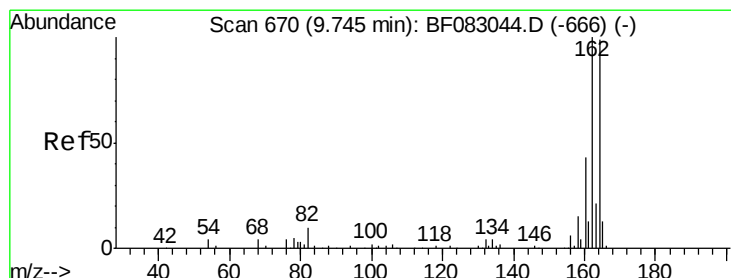
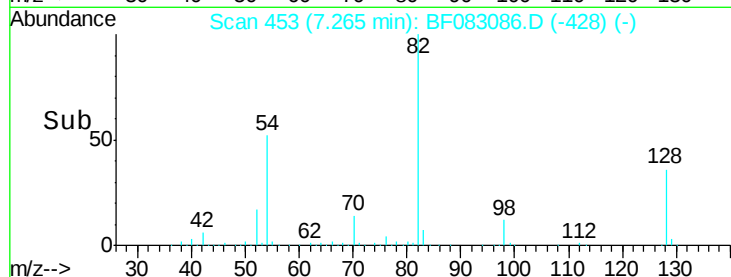
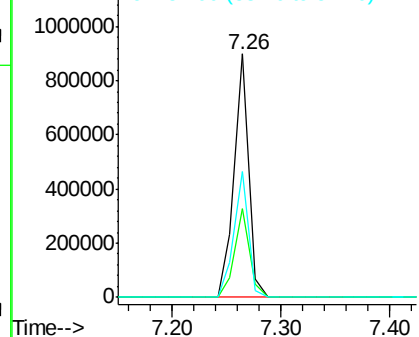
#23  
 Nitrobenzene-d5  
 Concen: 73.71 ng  
 RT: 7.26 min Scan# 453  
 Delta R.T. -0.01 min  
 Lab File: BF083086.D  
 Acq: 20 Nov 2015 17:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RW-20151116-08

| Tot Ion   | 82   | Resp  | 829133 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 36.5 | 33.1  | 49.7   |
| 54        | 52.0 | 39.8  | 59.6   |

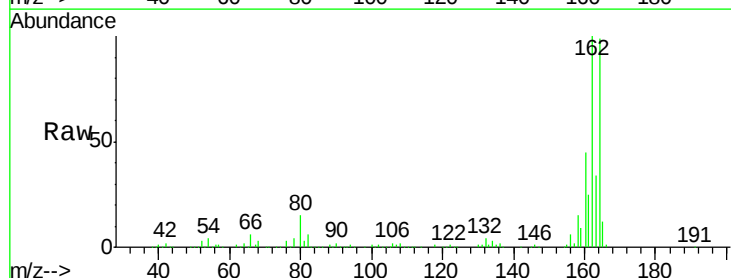


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

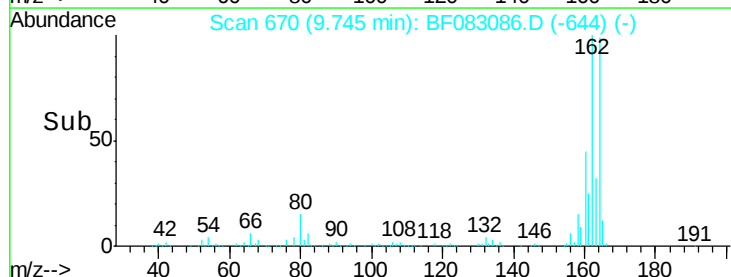
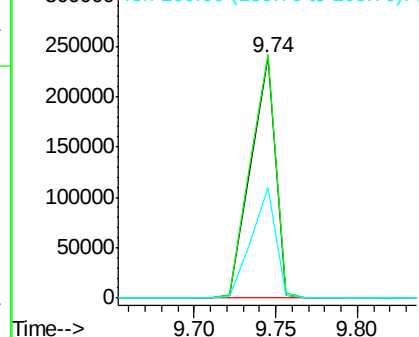


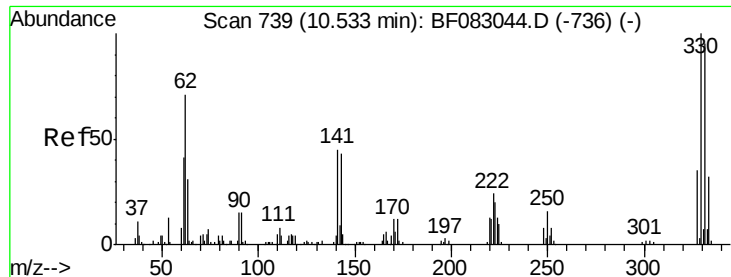
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.74 min Scan# 670  
 Delta R.T. 0.00 min  
 Lab File: BF083086.D  
 Acq: 20 Nov 2015 17:21

| Tgt Ion   | 164   | Resp  | 251437 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 162       | 101.1 | 80.5  | 120.7  |
| 160       | 45.7  | 35.0  | 52.4   |



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

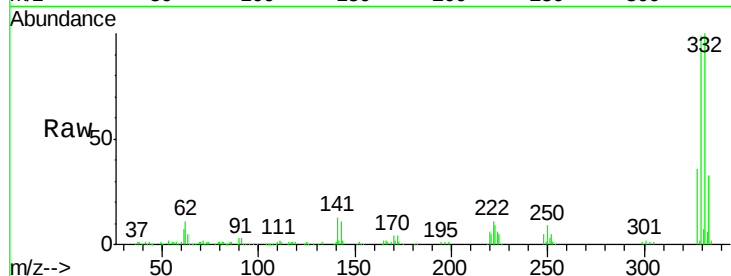




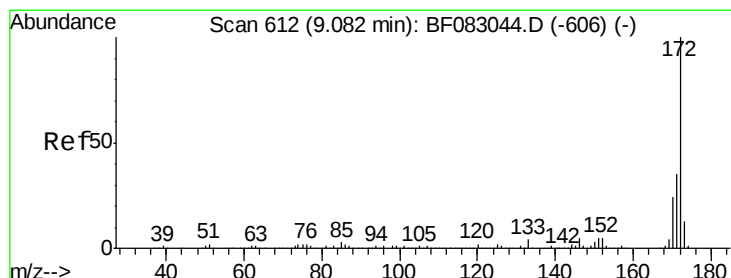
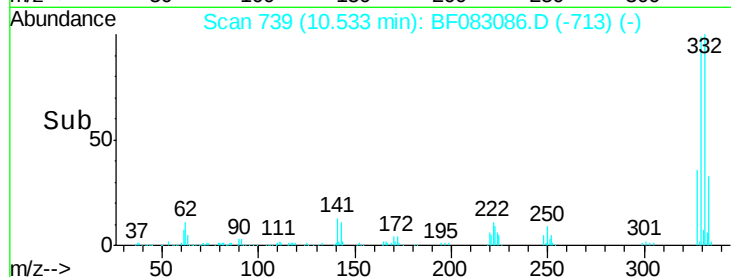
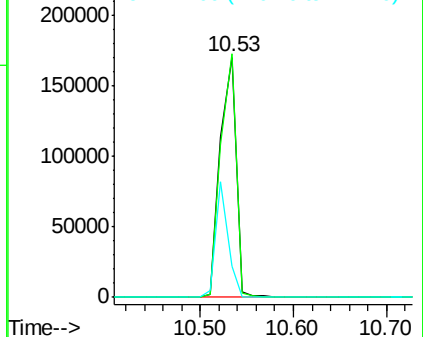
#41  
 2,4,6-Tribromophenol  
 Concen: 75.78 ng  
 RT: 10.53 min Scan# 739  
 Delta R.T. 0.00 min  
 Lab File: BF083086.D  
 Acq: 20 Nov 2015 17:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RW-20151116-08

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.8  | 77.6  | 116.4 |
| 141     | 37.7  | 34.6  | 52.0  |

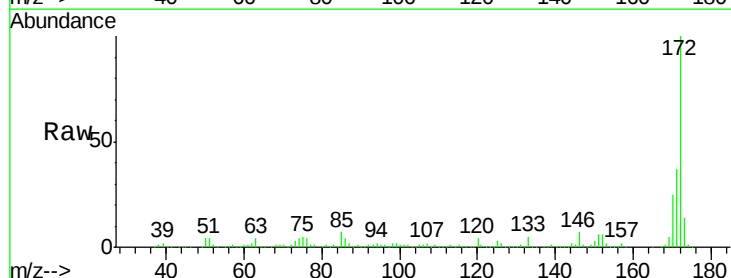


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

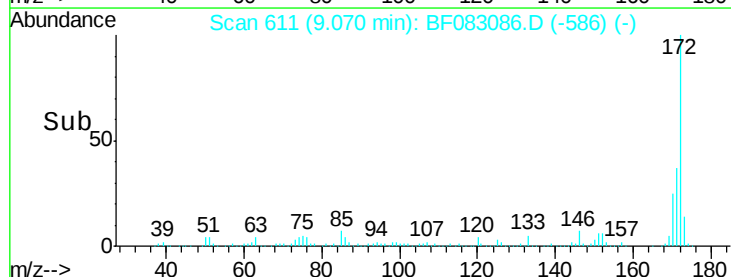
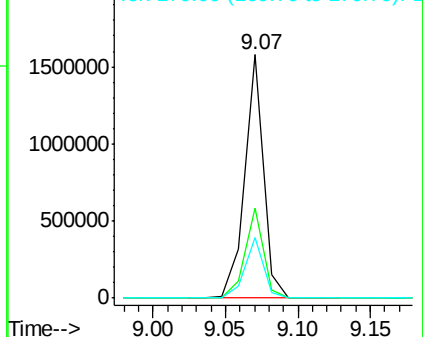


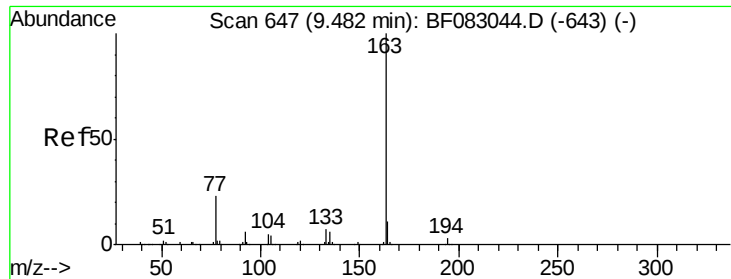
#44  
 2-Fluorobiphenyl  
 Concen: 75.66 ng  
 RT: 9.07 min Scan# 611  
 Delta R.T. -0.01 min  
 Lab File: BF083086.D  
 Acq: 20 Nov 2015 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 28.2  | 42.4  |
| 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

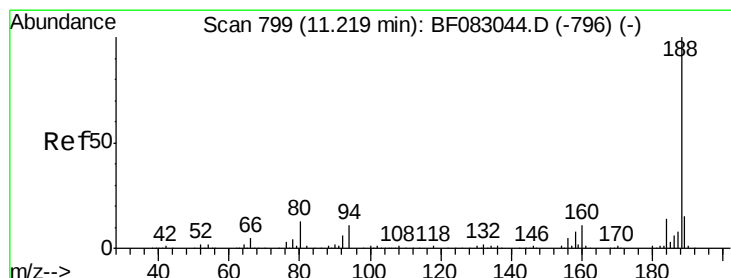
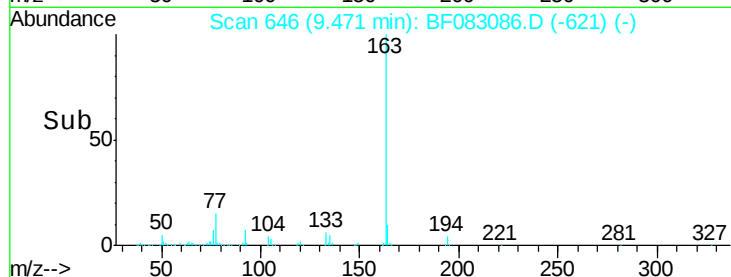
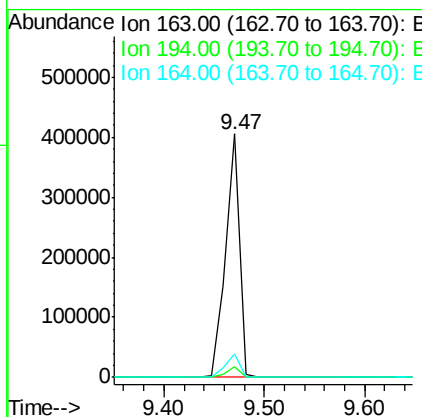
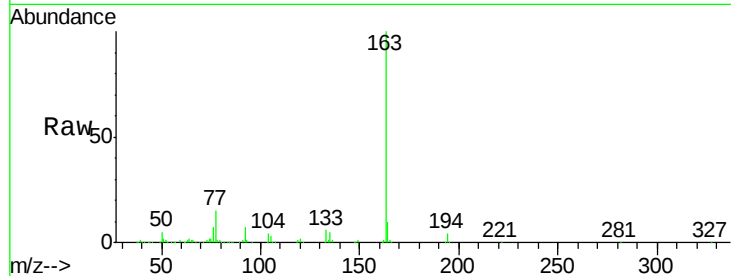




#49  
Dimethylphthalate  
Concen: 18.86 ng  
RT: 9.47 min Scan# 646  
Delta R.T. -0.01 min  
Lab File: BF083086.D  
Acq: 20 Nov 2015 17:21

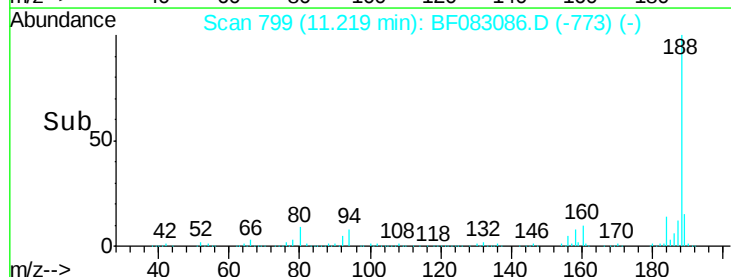
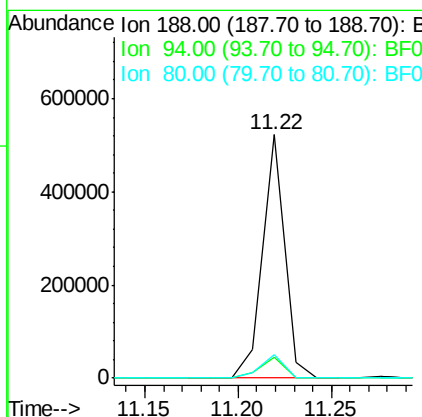
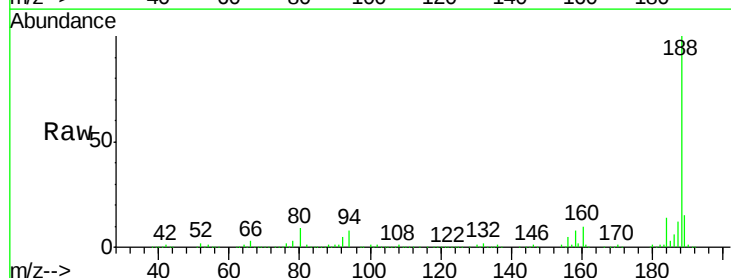
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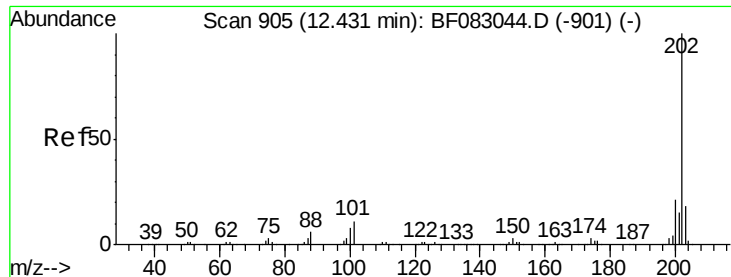
Tot Ion:163 Resp: 390246  
Ion Ratio Lower Upper  
163 100  
194 4.1 2.7 4.1#  
164 9.6 8.5 12.7



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.22 min Scan# 799  
Delta R.T. 0.00 min  
Lab File: BF083086.D  
Acq: 20 Nov 2015 17:21

Tgt Ion:188 Resp: 426931  
Ion Ratio Lower Upper  
188 100  
94 8.4 9.0 13.4#  
80 9.5 10.2 15.4#

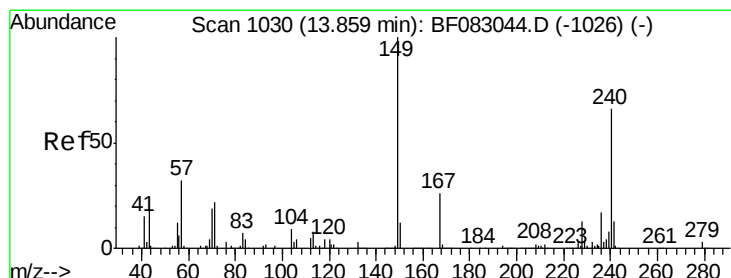
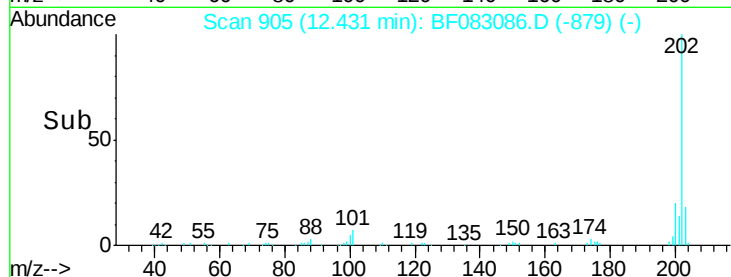
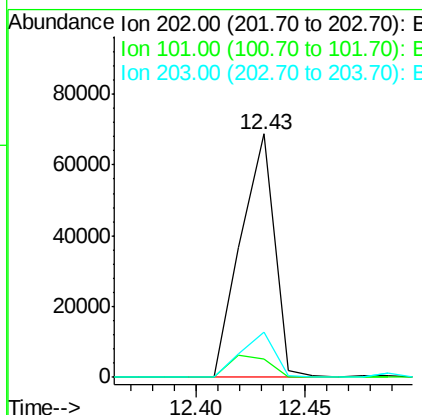
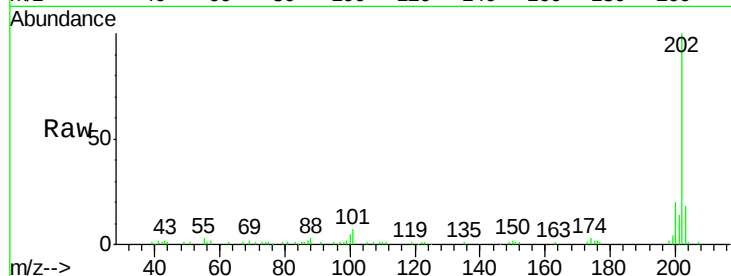




#74  
 Fluoranthene  
 Concen: 2.75 ng  
 RT: 12.43 min Scan# 905  
 Delta R.T. 0.00 min  
 Lab File: BF083086.D  
 Acq: 20 Nov 2015 17:21

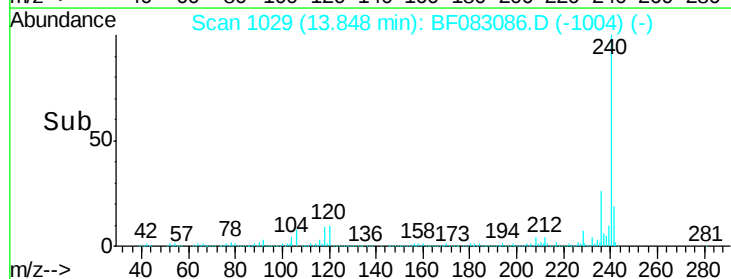
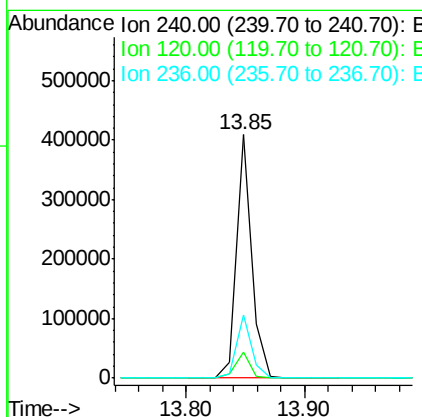
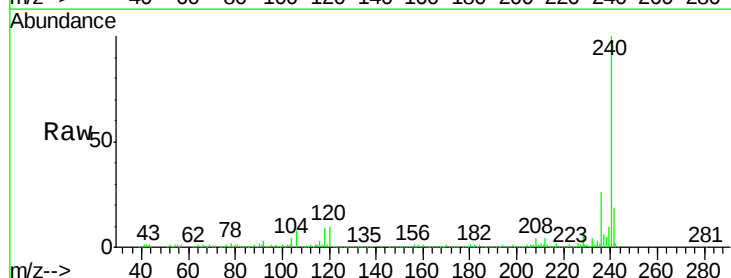
Instrument :  
 BNA\_F  
 ClientSampleId :  
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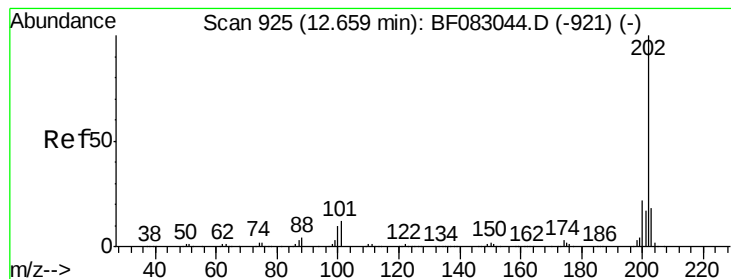
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.3   | 0.0   | 31.1  |
| 203     | 18.4  | 0.0   | 38.4  |



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.85 min Scan# 1029  
 Delta R.T. -0.01 min  
 Lab File: BF083086.D  
 Acq: 20 Nov 2015 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.4  | 5.3   | 7.9#  |
| 236     | 26.2  | 20.4  | 30.6  |





#77

Pvrene

Concen: 2.55 ng

RT: 12.65 min Scan# 924

Delta R.T. -0.01 min

Lab File: BF083086.D

Acq: 20 Nov 2015 17:21

Instrument :

BNA\_F

ClientSampleId :

RW-20151116-08

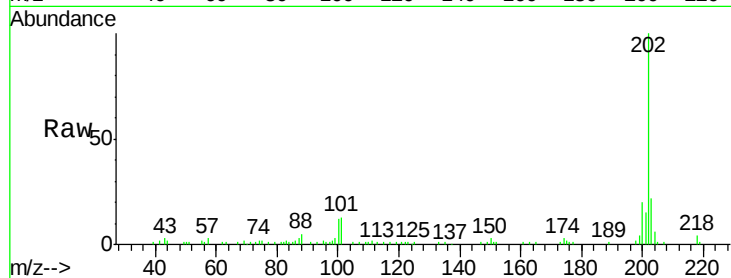
Tot Ion:202 Resp: 65592

Ion Ratio Lower Upper

202 100

200 20.2 17.6 26.4

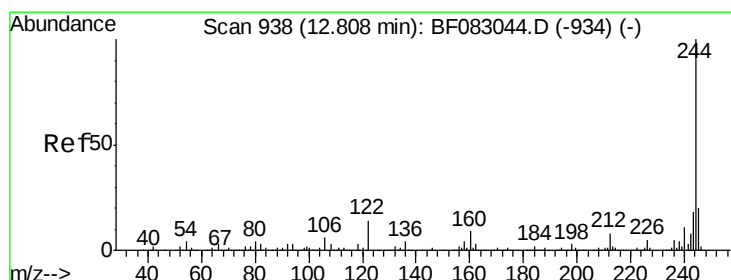
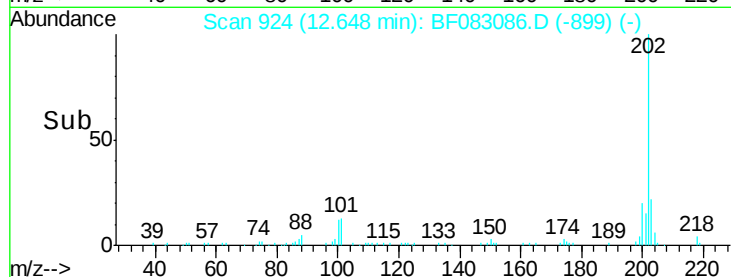
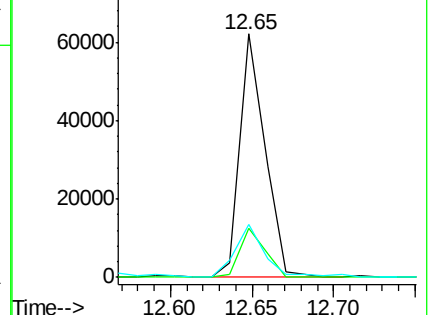
203 21.6 14.6 22.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 65.45 ng

RT: 12.81 min Scan# 938

Delta R.T. 0.00 min

Lab File: BF083086.D

Acq: 20 Nov 2015 17:21

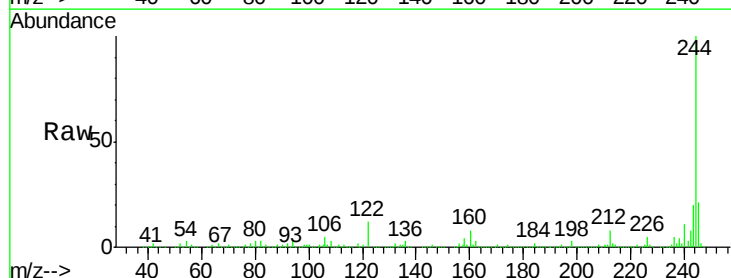
Tgt Ion:244 Resp: 1014438

Ion Ratio Lower Upper

244 100

212 8.2 6.4 9.6

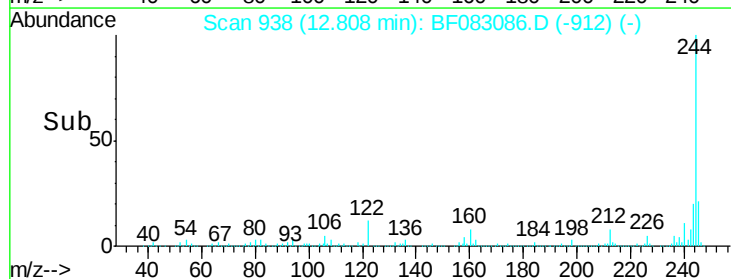
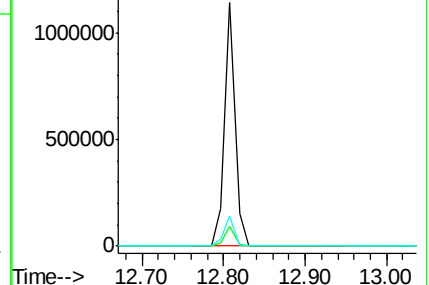
122 12.1 10.9 16.3

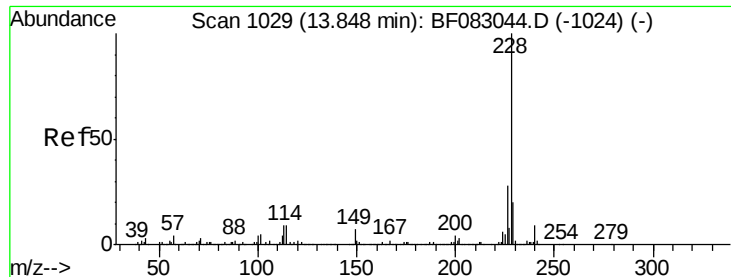


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

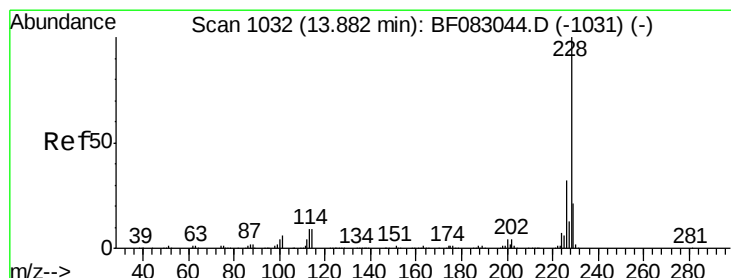
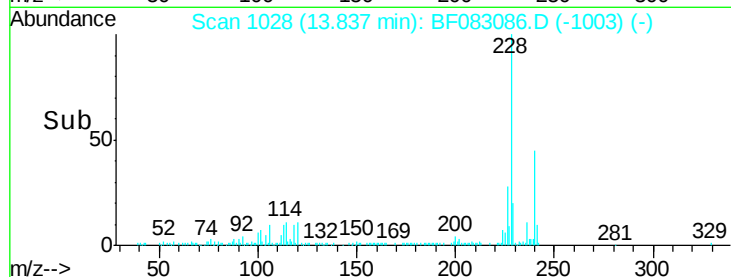
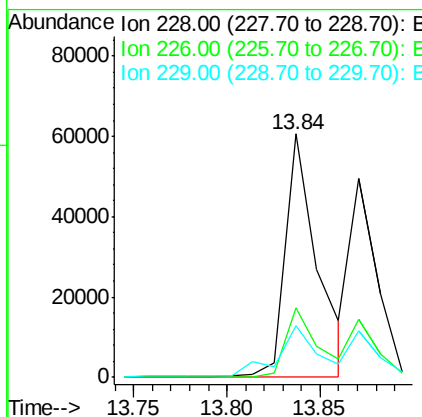
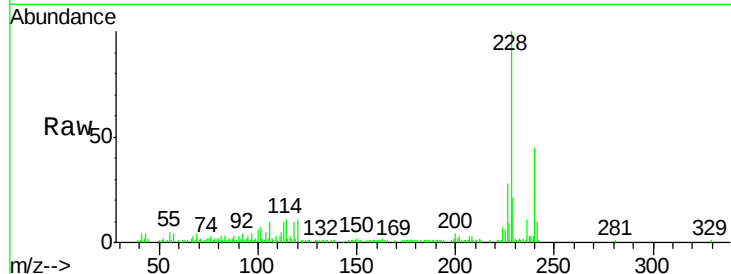




#80  
Benzo(a)anthracene  
Concen: 3.13 ng  
RT: 13.84 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: BF083086.D  
Acq: 20 Nov 2015 17:21

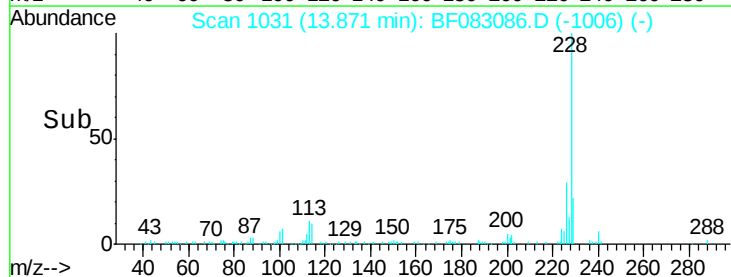
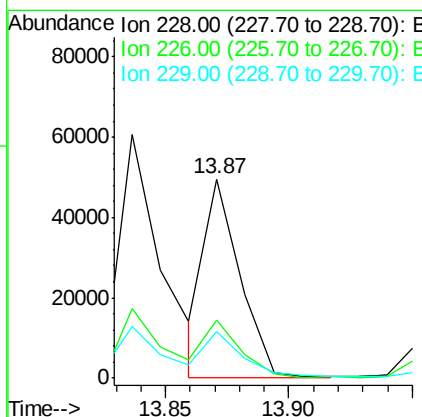
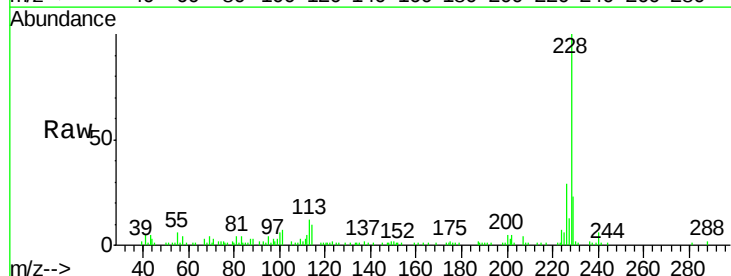
Instrument :  
BNA\_F  
ClientSampleId :  
RW-20151116-08

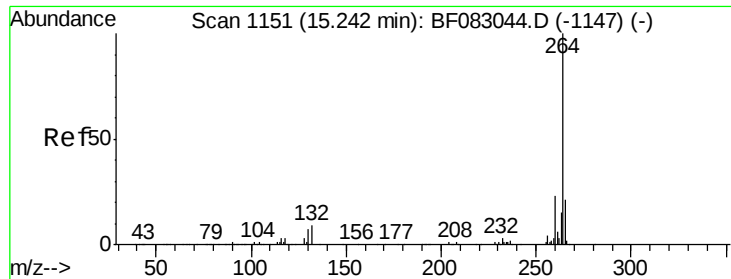
Tot Ion:228 Resp: 72875  
Ion Ratio Lower Upper  
228 100  
226 28.4 22.6 34.0  
229 21.2 16.1 24.1



#82  
Chrysene  
Concen: 2.35 ng m  
RT: 13.87 min Scan# 1031  
Delta R.T. -0.01 min  
Lab File: BF083086.D  
Acq: 20 Nov 2015 17:21

Tgt Ion:228 Resp: 50039  
Ion Ratio Lower Upper  
228 100  
226 29.1 25.3 37.9  
229 23.1 16.4 24.6

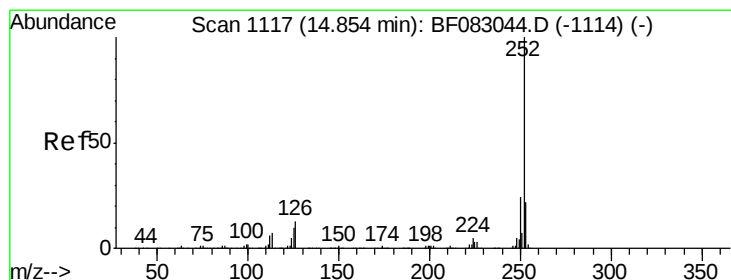
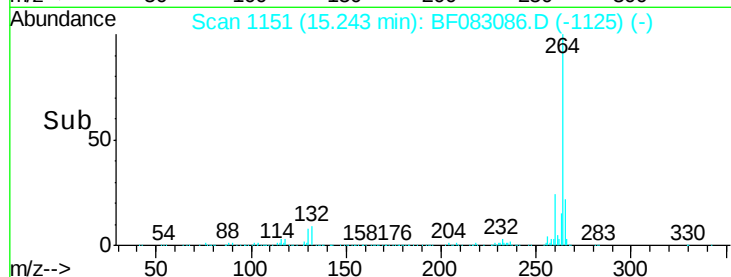
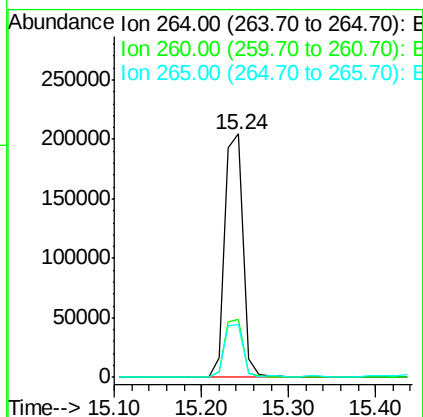
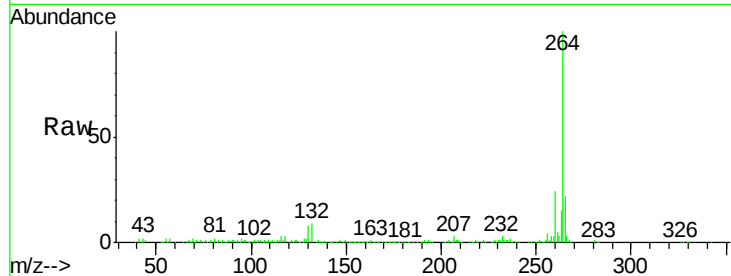




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.24 min Scan# 1151  
Delta R.T. 0.00 min  
Lab File: BF083086.D  
Acq: 20 Nov 2015 17:21

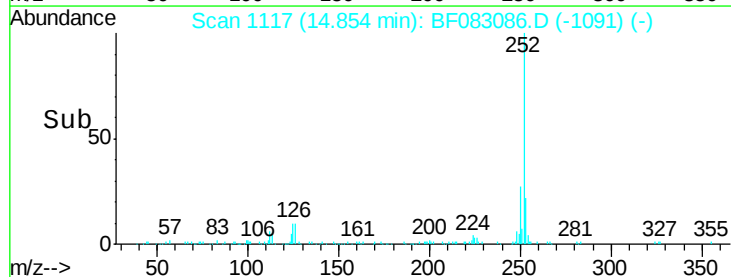
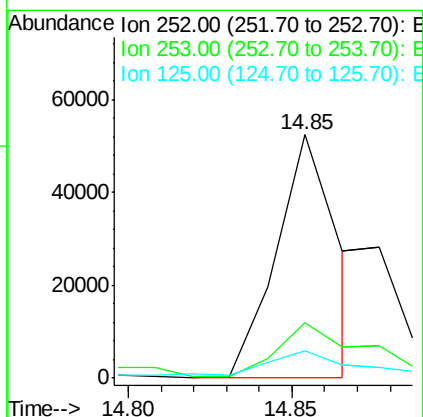
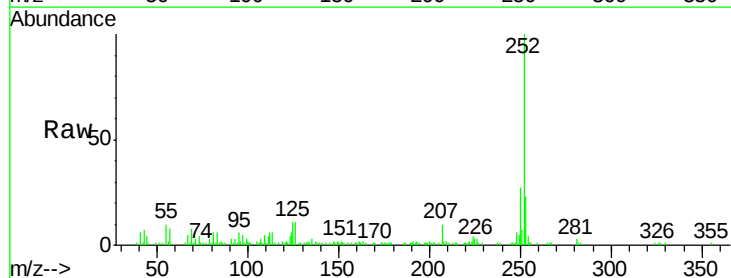
Instrument :  
BNA\_F  
ClientSampleId :  
RW-20151116-08

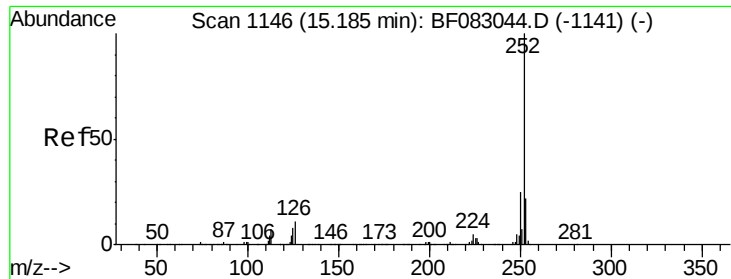
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 18.6  | 27.8  |
| 265     | 21.8  | 17.0  | 25.6  |



#87  
Benzo(b)fluoranthene  
Concen: 3.25 ng m  
RT: 14.85 min Scan# 1117  
Delta R.T. 0.00 min  
Lab File: BF083086.D  
Acq: 20 Nov 2015 17:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.6  | 26.4  |
| 125     | 11.5  | 7.7   | 11.5  |





#89

Benzo(a)pyrene

Concen: 2.67 ng

RT: 15.17 min Scan# 1145

Delta R.T. -0.01 min

Lab File: BF083086.D

Acq: 20 Nov 2015 17:21

Instrument :

BNA\_F

ClientSampleId :

RW-20151116-08

Tot Ion: 252 Resp: 45129

Ion Ratio Lower Upper

252 100

253 26.0 17.5 26.3

125 12.8 6.4 9.6#

