

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF012815\  
 Data File : BF077106.D  
 Acq On : 28 Jan 2015 17:30  
 Operator : TP/IZ  
 Sample : G1138-07  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 275B1B

Quant Time: Jan 28 18:11:52 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 28 16:07:35 2015  
 Response via : Initial Calibration

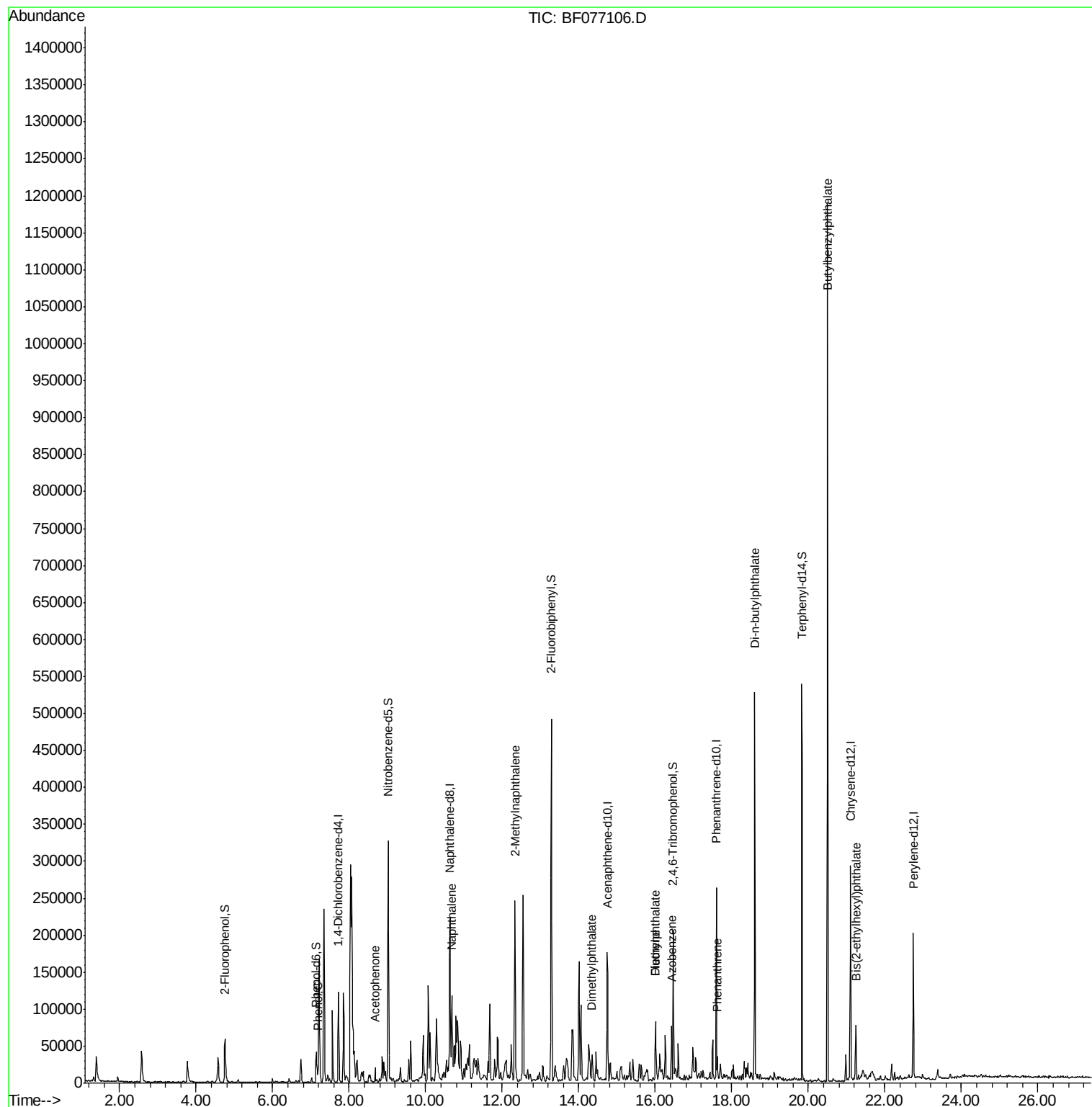
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.72  | 152  | 33801    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.63 | 136  | 136793   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.75 | 164  | 65455    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10           | 17.59 | 188  | 118294   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12               | 21.10 | 240  | 111891   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12               | 22.75 | 264  | 86632    | 20.00 | ng    | -0.07    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 4.76  | 112  | 36798    | 17.90 | ng    | 0.01     |
| 7) Phenol-d6                   | 7.14  | 99   | 27901    | 10.76 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.02  | 82   | 126307   | 51.15 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.47 | 330  | 27254    | 51.30 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 13.28 | 172  | 242711   | 56.43 | ng    | -0.01    |
| 78) Terphenyl-d14              | 19.83 | 244  | 241337   | 49.66 | ng    | -0.01    |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 10) Phenol                     | 7.18  | 94   | 6227     | 2.26  | ng    | 85       |
| 22) Acetophenone               | 8.68  | 105  | 16866    | 5.03  | ng    | # 56     |
| 31) Naphthalene                | 10.68 | 128  | 50513    | 7.17  | ng    | 96       |
| 37) 2-Methylnaphthalene        | 12.33 | 142  | 118019   | 24.54 | ng    | 96       |
| 49) Dimethylphthalate          | 14.35 | 163  | 24134    | 5.20  | ng    | 98       |
| 57) Fluorene                   | 16.00 | 166  | 11397    | 2.42  | ng    | # 94     |
| 59) Diethylphthalate           | 16.00 | 149  | 31482    | 6.71  | ng    | 96       |
| 62) Azobenzene                 | 16.43 | 77   | 20080    | 4.11  | ng    | # 1      |
| 70) Phenanthrene               | 17.63 | 178  | 16222    | 2.20  | ng    | 97       |
| 73) Di-n-butylphthalate        | 18.60 | 149  | 302654   | 37.47 | ng    | 98       |
| 79) Butylbenzylphthalate       | 20.51 | 149  | 326440   | 94.00 | ng    | 91       |
| 83) Bis(2-ethylhexyl)phthalate | 21.25 | 149  | 46698    | 9.72  | ng    | 99       |

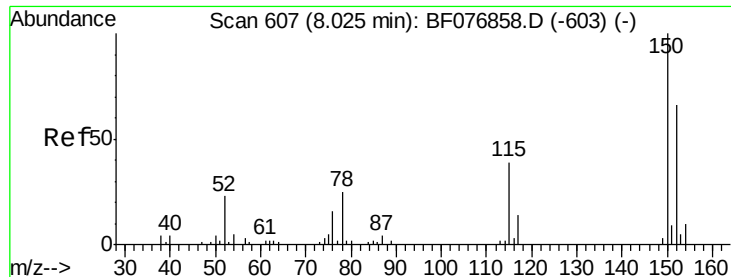
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF011415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 28 16:07:35 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.72 min Scan# 580

Delta R.T. -0.00 min

Lab File: BF077106.D

Acq: 28 Jan 2015 17:30

Instrument :

BNA\_F

ClientSampleId :

275B1B

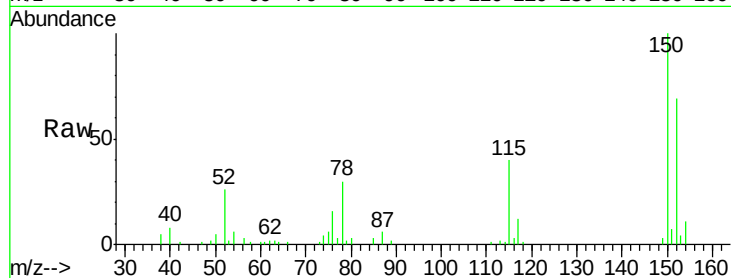
Tgt Ion:152 Resp: 33801

Ion Ratio Lower Upper

152 100

150 144.7 121.7 182.5

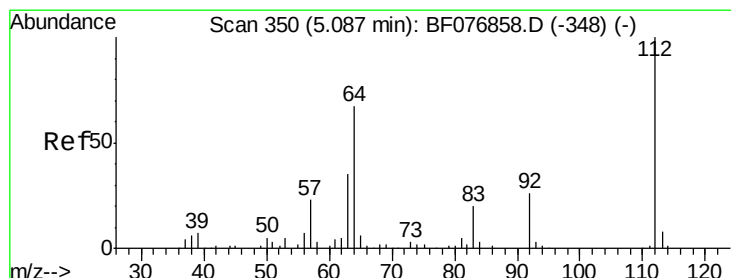
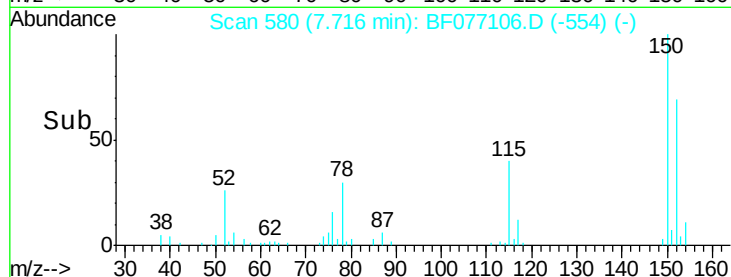
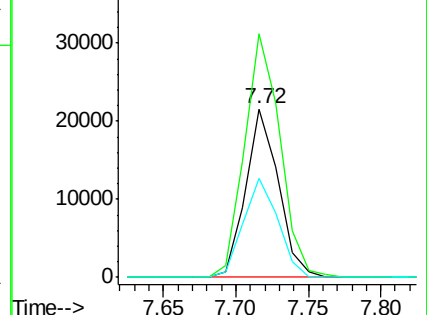
115 58.6 47.0 70.6



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: 17.90 ng

RT: 4.76 min Scan# 321

Delta R.T. 0.01 min

Lab File: BF077106.D

Acq: 28 Jan 2015 17:30

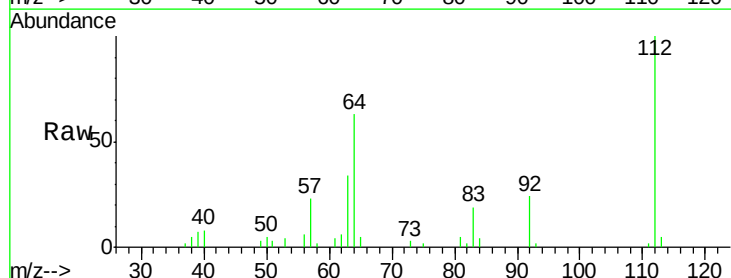
Tgt Ion:112 Resp: 36798

Ion Ratio Lower Upper

112 100

64 62.7 54.2 81.4

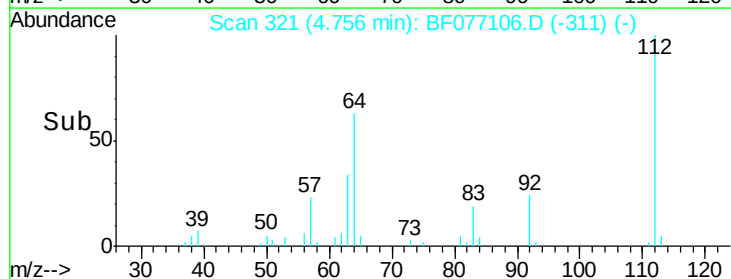
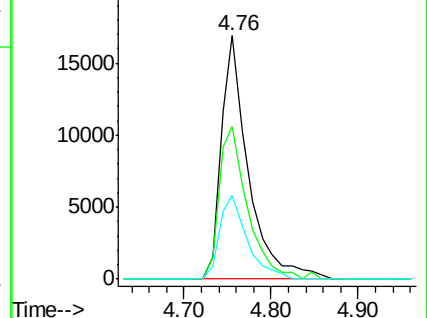
63 34.5 28.4 42.6

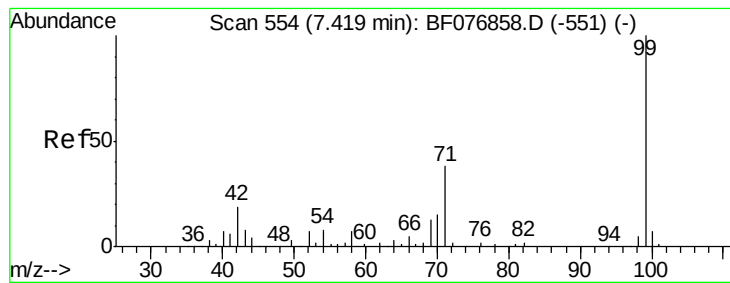


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 10.76 ng

RT: 7.14 min Scan# 530

Delta R.T. -0.00 min

Lab File: BF077106.D

Acq: 28 Jan 2015 17:30

Instrument :

BNA\_F

ClientSampleId :

275B1B

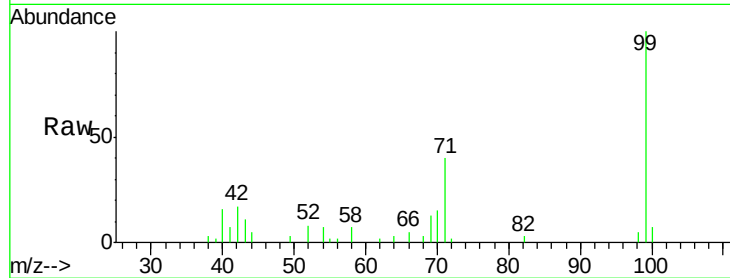
Tgt Ion: 99 Resp: 27901

Ion Ratio Lower Upper

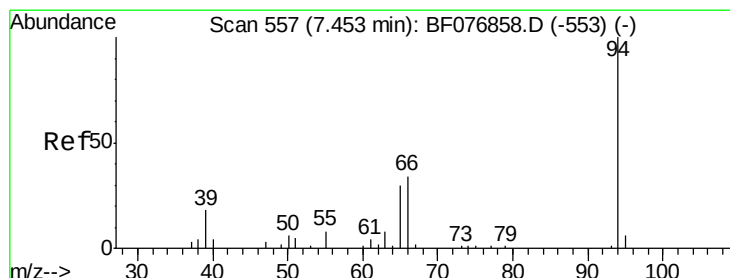
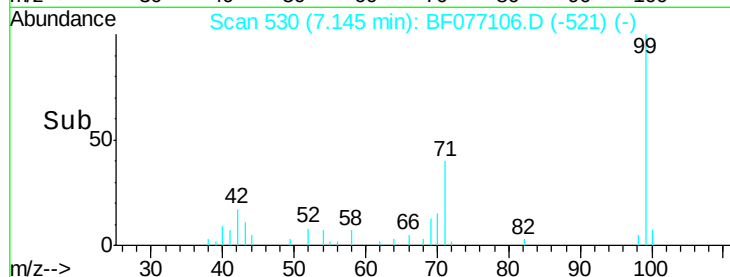
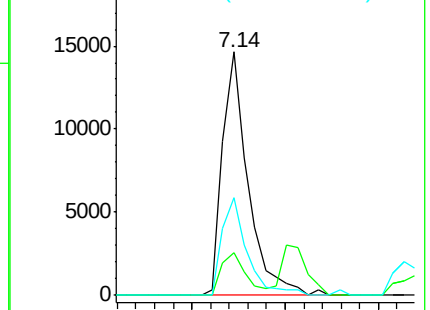
99 100

42 17.4 15.0 22.4

71 40.0 30.5 45.7



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



#10

Phenol

Concen: 2.26 ng

RT: 7.18 min Scan# 533

Delta R.T. 0.01 min

Lab File: BF077106.D

Acq: 28 Jan 2015 17:30

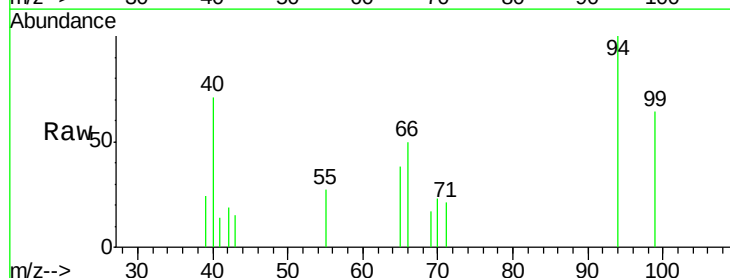
Tgt Ion: 94 Resp: 6227

Ion Ratio Lower Upper

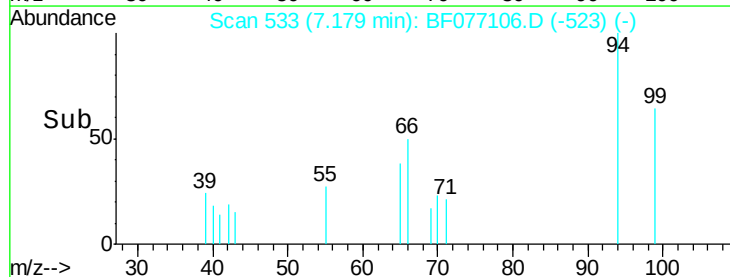
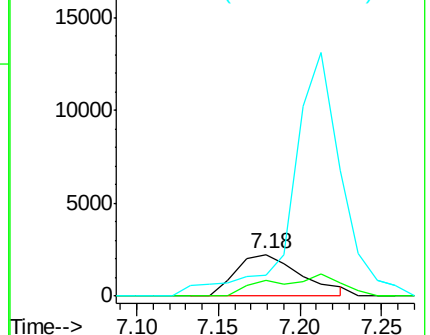
94 100

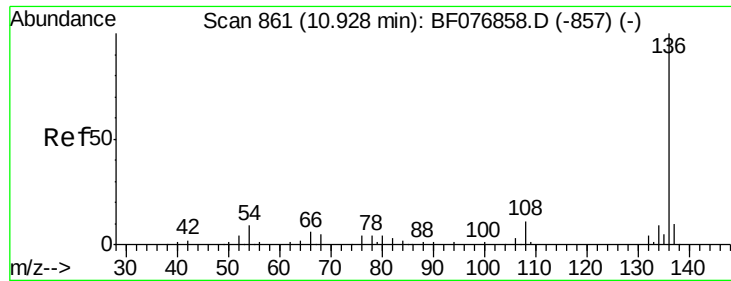
65 38.5 11.3 51.3

66 49.9 19.5 59.5



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0

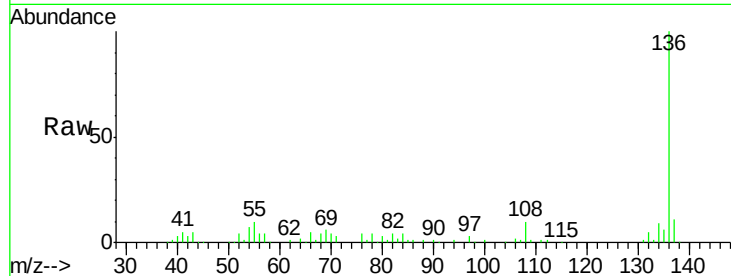




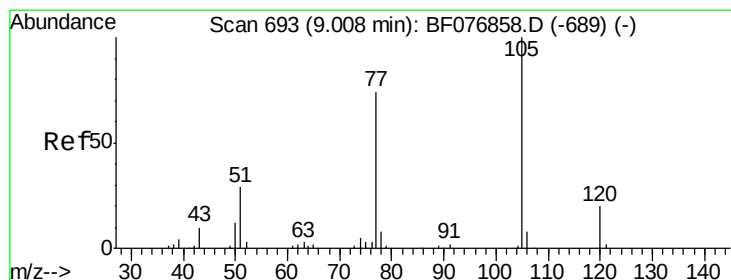
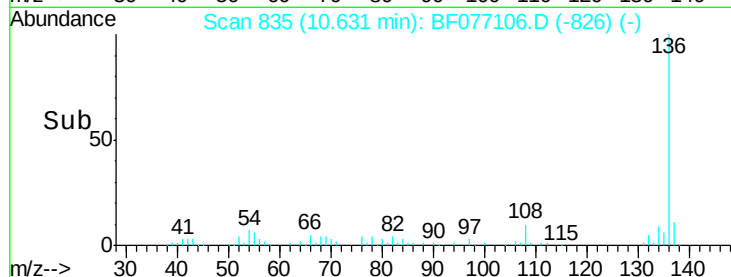
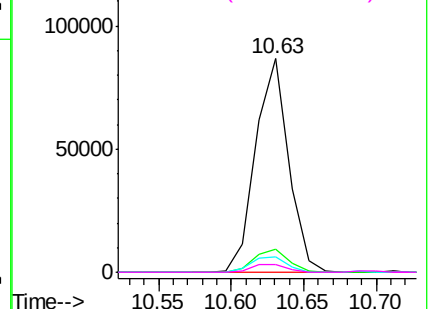
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.63 min Scan# 835  
Delta R.T. -0.00 min  
Lab File: BF077106.D  
Acq: 28 Jan 2015 17:30

Instrument :  
BNA\_F  
ClientSampleId :  
275B1B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 136793 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.1   | 12.1   |
| 54       | 7.3   | 7.0   | 10.4   |
| 68       | 3.9   | 3.7   | 5.5    |

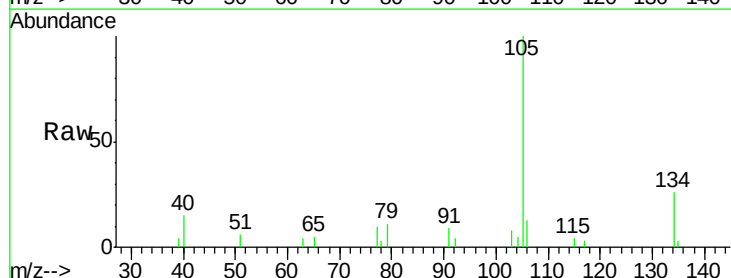


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

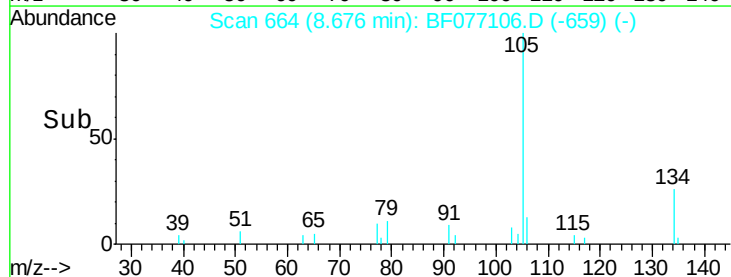
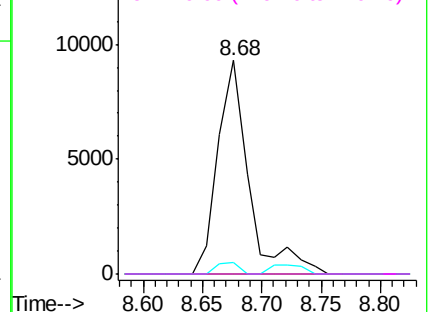


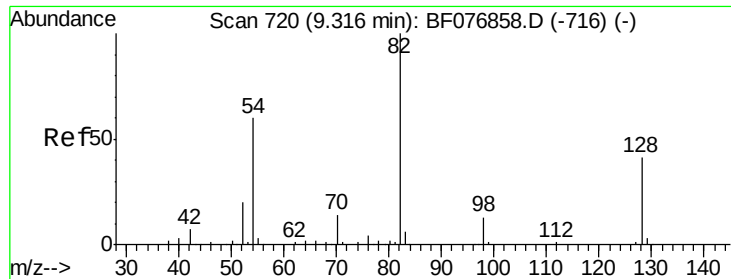
#22  
Acetophenone  
Concen: 5.03 ng  
RT: 8.68 min Scan# 664  
Delta R.T. -0.05 min  
Lab File: BF077106.D  
Acq: 28 Jan 2015 17:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 16866 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 0.0   | 0.0   | 0.0   |
| 51       | 5.7   | 23.3  | 34.9# |
| 120      | 0.0   | 16.1  | 24.1# |



Abundance Ion 105.00 (104.70 to 105.70): E  
Ion 71.00 (70.70 to 71.70): BF0  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 120.00 (119.70 to 120.70): E

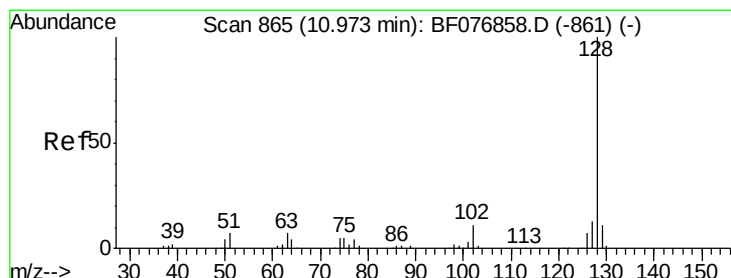
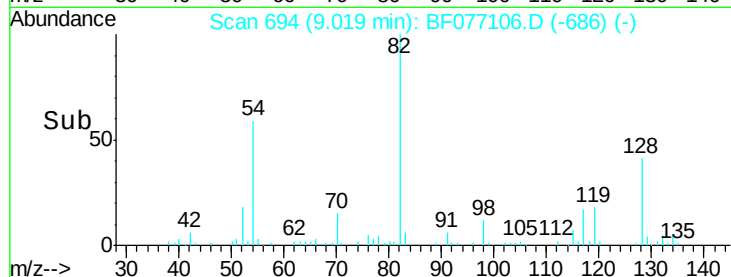
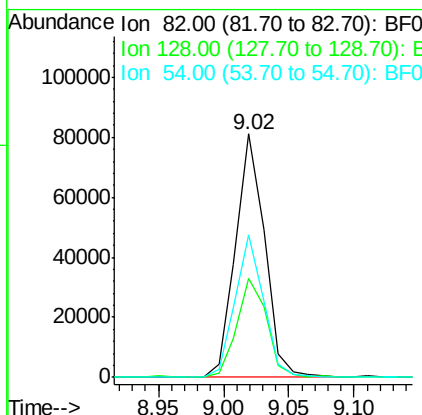
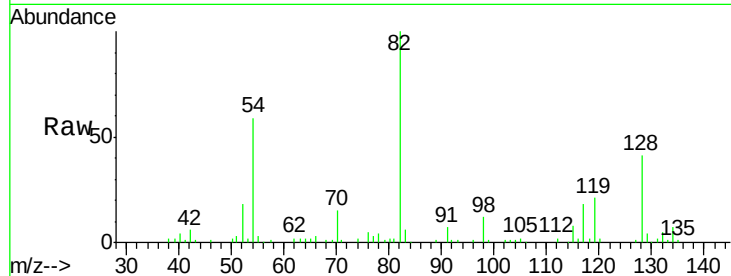




#23  
 Nitrobenzene-d5  
 Concen: 51.15 ng  
 RT: 9.02 min Scan# 694  
 Delta R.T. -0.01 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

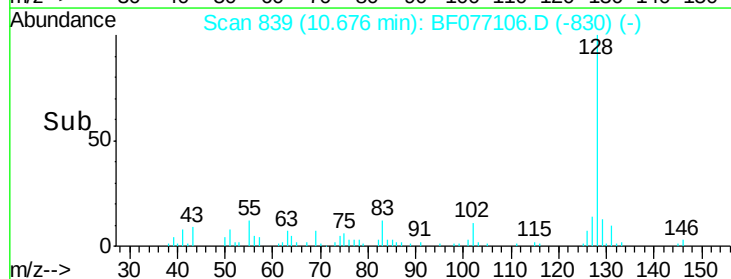
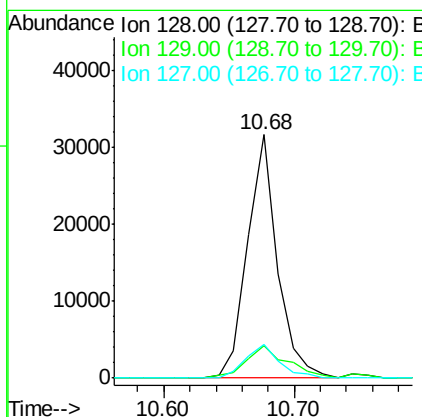
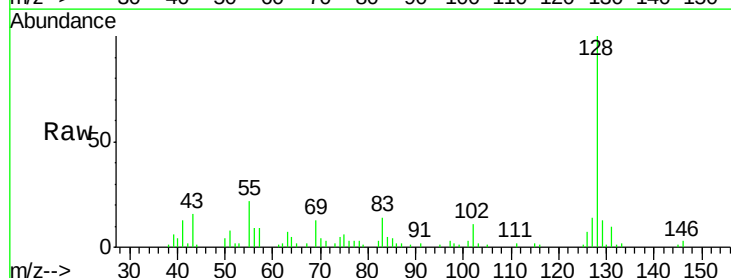
Instrument :  
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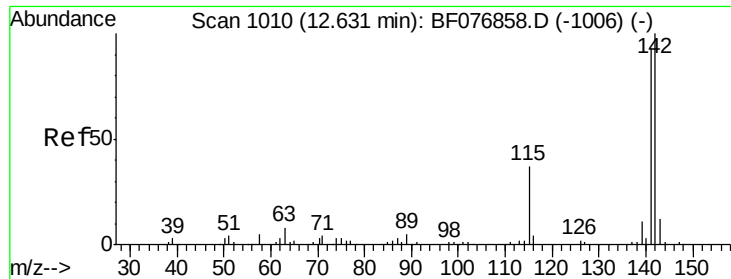
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.6  | 33.1  | 49.7  |
| 54      | 58.6  | 48.3  | 72.5  |



#31  
 Naphthalene  
 Concen: 7.17 ng  
 RT: 10.68 min Scan# 839  
 Delta R.T. -0.00 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 13.2  | 9.0   | 13.6  |
| 127     | 13.7  | 10.2  | 15.2  |

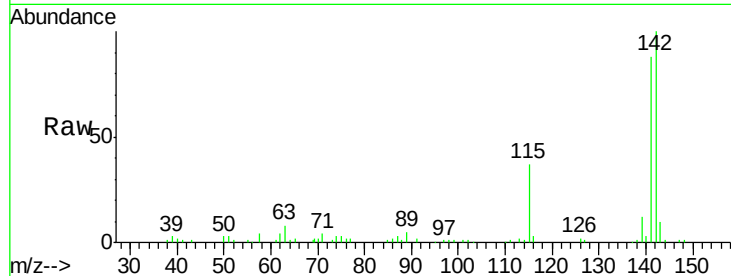




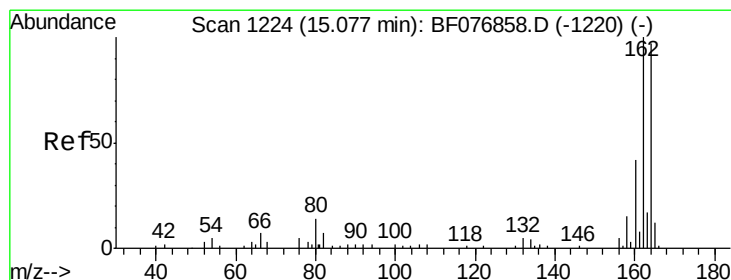
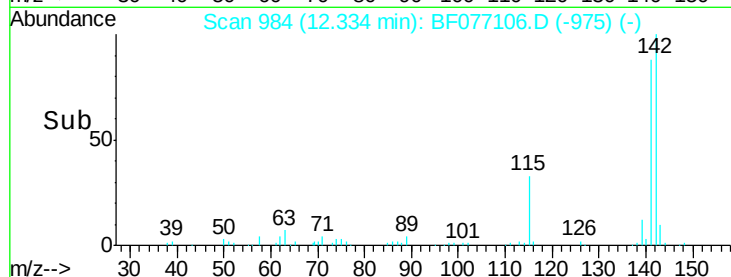
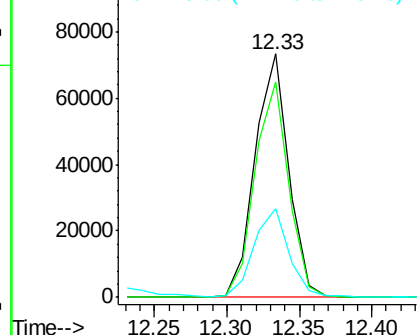
#37  
 2-Methylnaphthalene  
 Concen: 24.54 ng  
 RT: 12.33 min Scan# 984  
 Delta R.T. -0.00 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 275B1B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.3  | 74.5  | 111.7 |
| 115     | 36.7  | 29.7  | 44.5  |

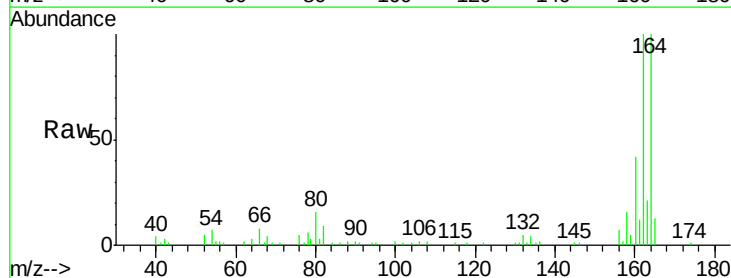


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

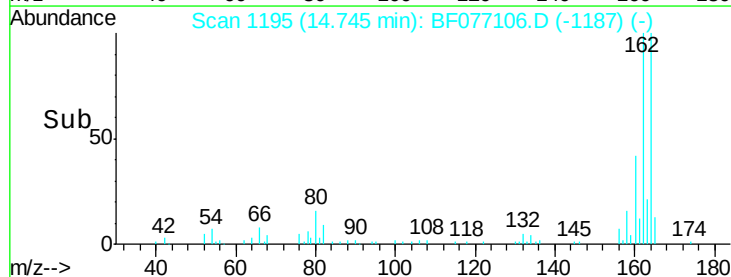
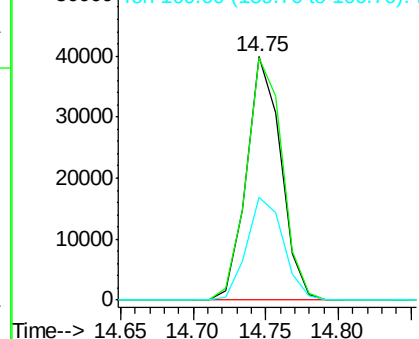


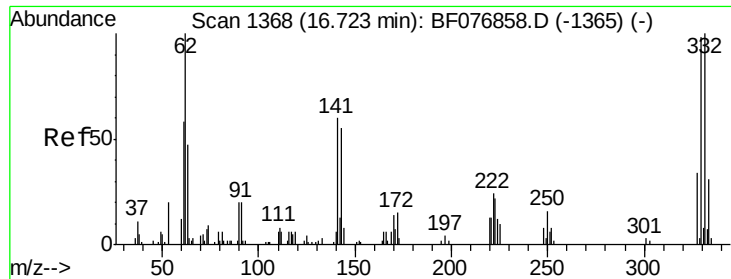
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.75 min Scan# 1195  
 Delta R.T. -0.01 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.7  | 82.4  | 123.6 |
| 160     | 42.4  | 34.8  | 52.2  |



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

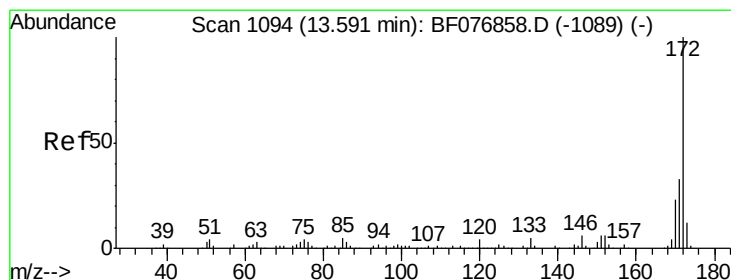
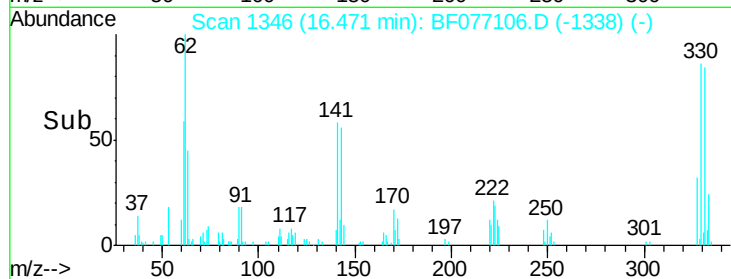
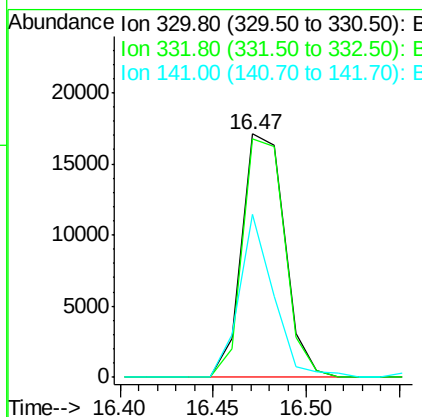
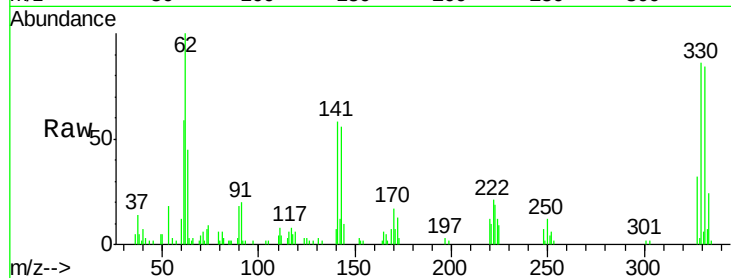




#41  
 2,4,6-Tribromophenol  
 Concen: 51.30 ng  
 RT: 16.47 min Scan# 1346  
 Delta R.T. -0.01 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

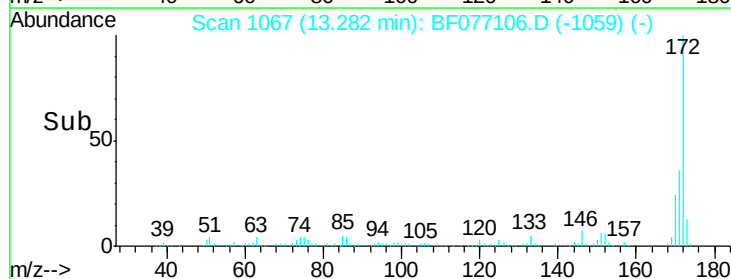
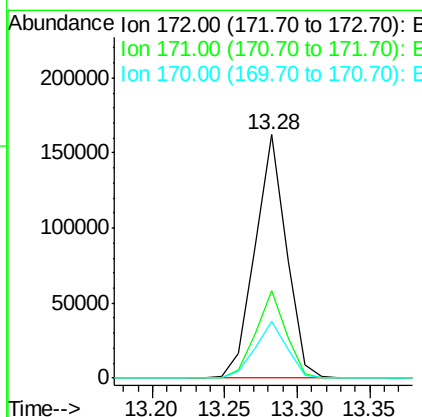
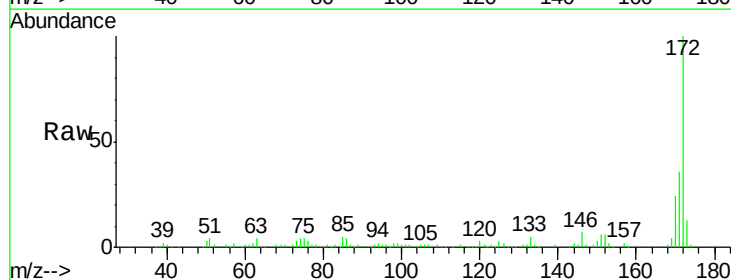
Instrument :  
 BNA\_F  
 ClientSampleId :  
 275B1B

Tgt Ion:330 Resp: 27254  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 77.8 116.6  
 141 54.1 38.5 57.7

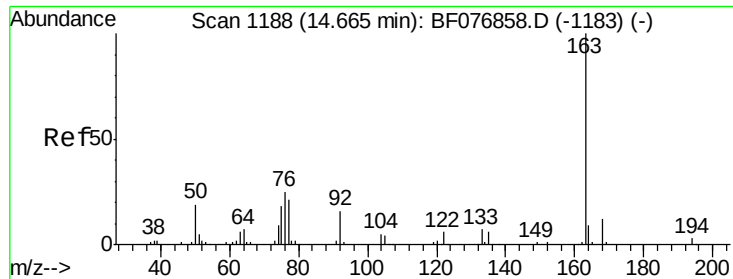


#44  
 2-Fluorobiphenyl  
 Concen: 56.43 ng  
 RT: 13.28 min Scan# 1067  
 Delta R.T. -0.01 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

Tgt Ion:172 Resp: 242711  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 26.6 40.0  
 170 23.6 18.0 27.0



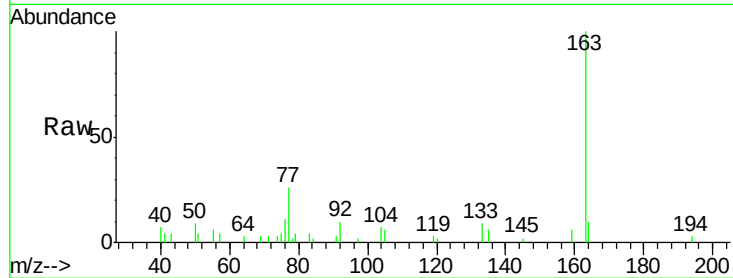




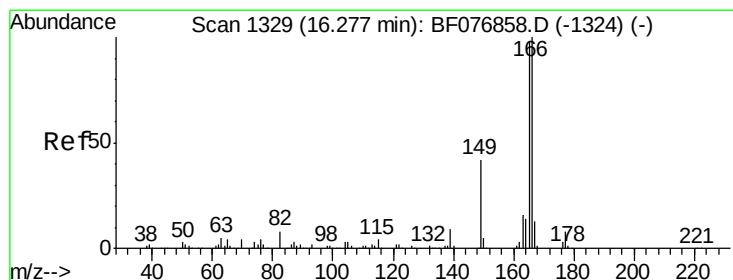
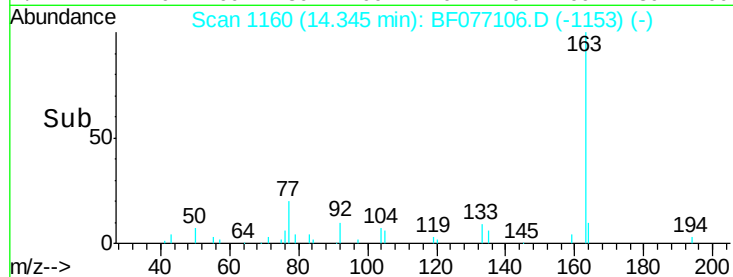
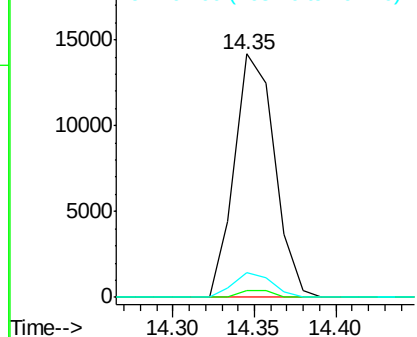
#49  
Dimethylphthalate  
Concen: 5.20 ng  
RT: 14.35 min Scan# 1160  
Delta R.T. -0.02 min  
Lab File: BF077106.D  
Acq: 28 Jan 2015 17:30

Instrument :  
BNA\_F  
ClientSampleId :  
275B1B

Tgt Ion:163 Resp: 24134  
Ion Ratio Lower Upper  
163 100  
194 2.8 2.6 4.0  
164 10.3 7.5 11.3

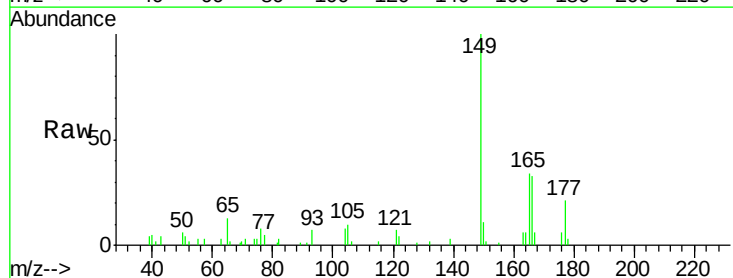


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

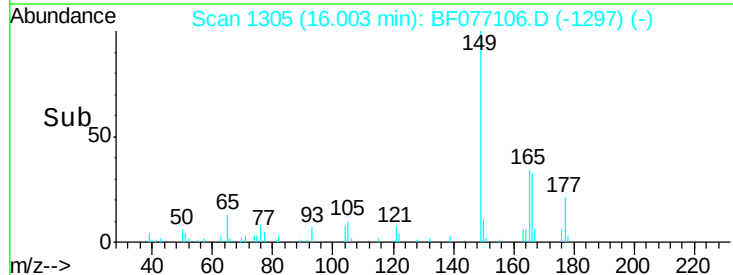
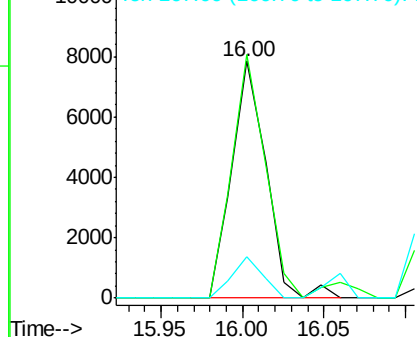


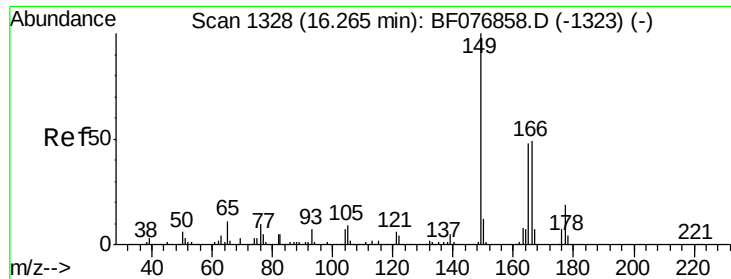
#57  
Fluorene  
Concen: 2.42 ng  
RT: 16.00 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BF077106.D  
Acq: 28 Jan 2015 17:30

Tgt Ion:166 Resp: 11397  
Ion Ratio Lower Upper  
166 100  
165 102.8 78.5 117.7  
167 17.4 10.4 15.6#



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E

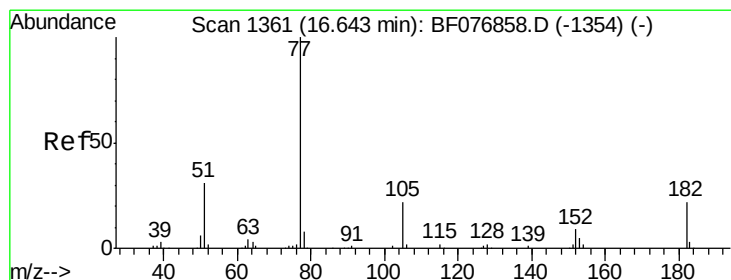
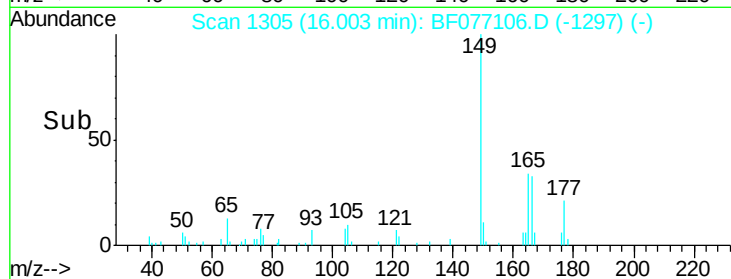
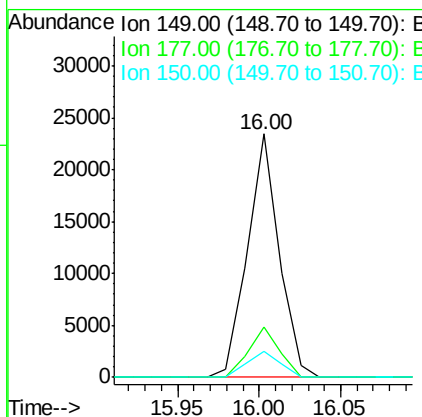
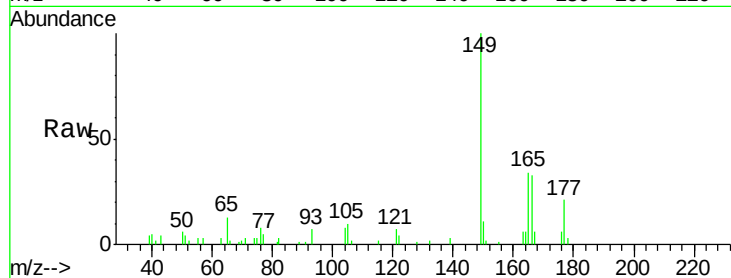




#59  
**Diethylphthalate**  
 Concen: 6.71 ng  
 RT: 16.00 min Scan# 1305  
 Delta R.T. -0.01 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

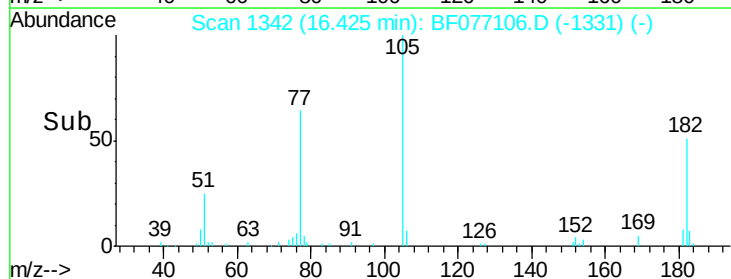
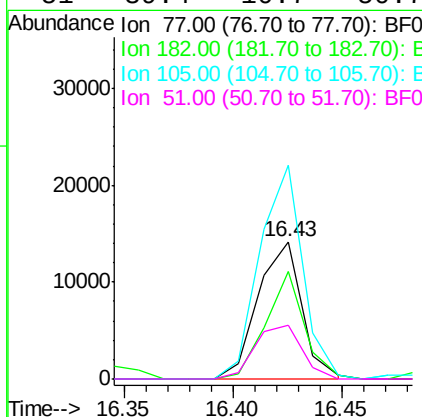
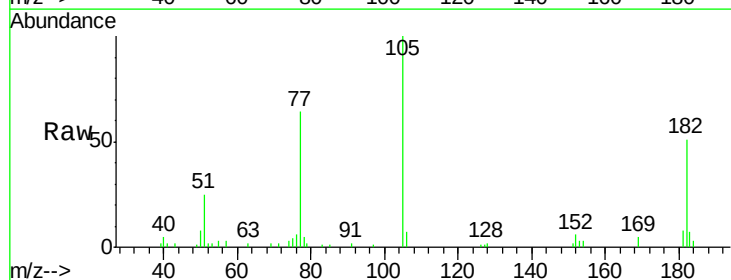
Instrument :  
 BNA\_F  
 ClientSampleId :  
 275B1B

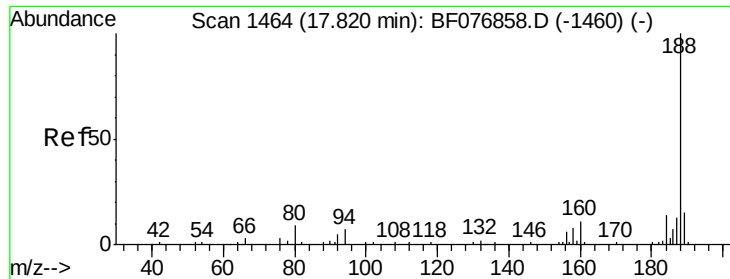
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 31482 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 177      | 20.7  | 15.0  | 22.6  |
| 150      | 10.6  | 9.4   | 14.0  |



#62  
**Azobenzene**  
 Concen: 4.11 ng  
 RT: 16.43 min Scan# 1342  
 Delta R.T. 0.02 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 20080 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 182      | 78.5  | 2.0   | 42.0# |
| 105      | 155.4 | 2.3   | 42.3# |
| 51       | 39.4  | 10.7  | 50.7  |

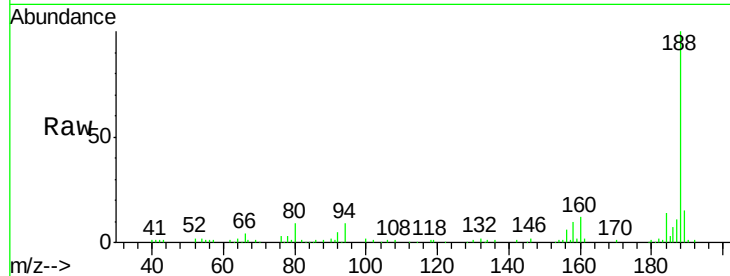




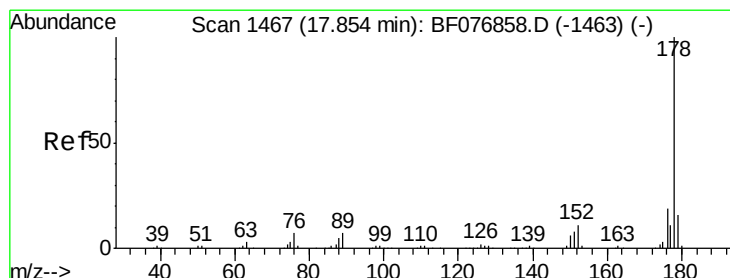
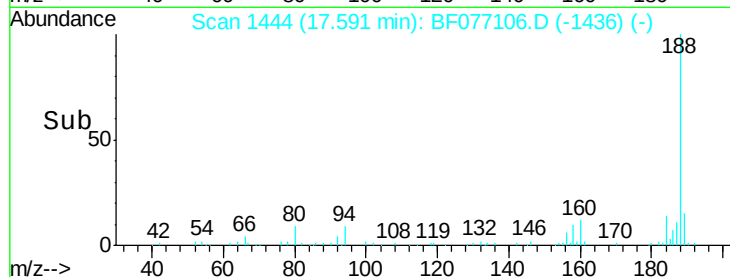
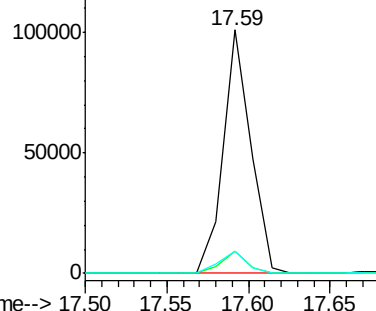
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 17.59 min Scan# 1444  
 Delta R.T. -0.01 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 275B1B

Tgt Ion:188 Resp: 118294  
 Ion Ratio Lower Upper  
 188 100  
 94 9.0 6.0 9.0  
 80 9.3 6.9 10.3

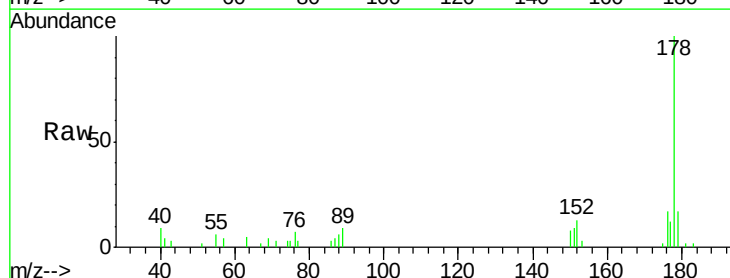


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

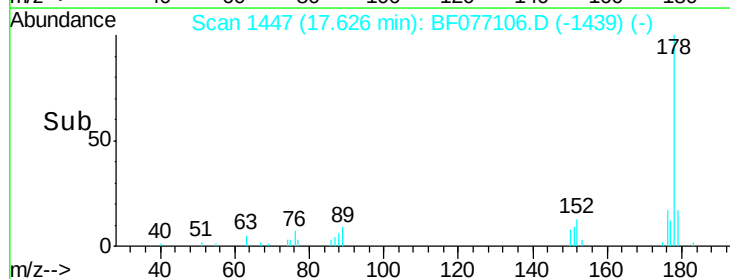
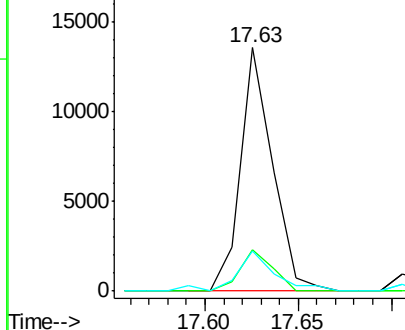


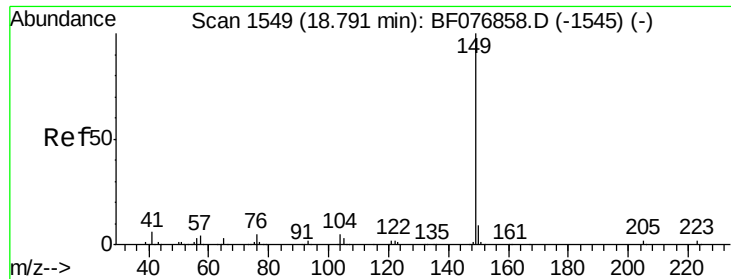
#70  
 Phenanthrene  
 Concen: 2.20 ng  
 RT: 17.63 min Scan# 1447  
 Delta R.T. -0.01 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

Tgt Ion:178 Resp: 16222  
 Ion Ratio Lower Upper  
 178 100  
 176 16.8 15.1 22.7  
 179 16.6 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E





#73

Di-n-butylphthalate

Concen: 37.47 ng

RT: 18.60 min Scan# 1532

Delta R.T. -0.01 min

Lab File: BF077106.D

Acq: 28 Jan 2015 17:30

Instrument :

BNA\_F

ClientSampleId :

275B1B

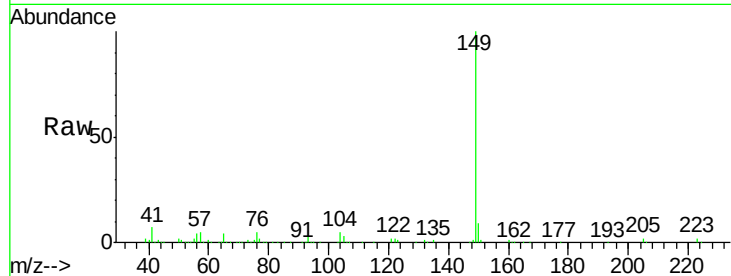
Tgt Ion:149 Resp: 302654

Ion Ratio Lower Upper

149 100

150 9.4 6.9 10.3

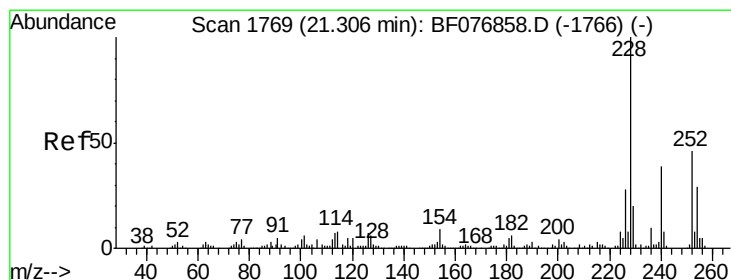
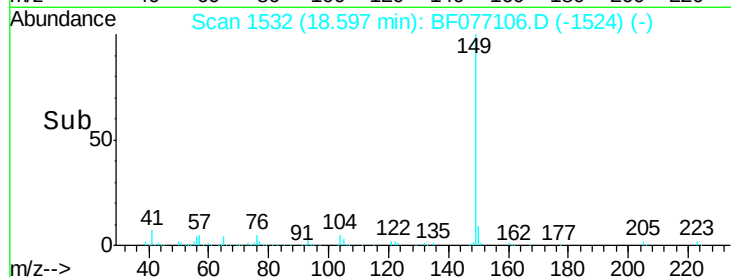
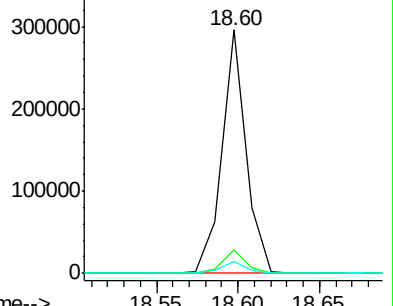
104 5.0 3.7 5.5



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.10 min Scan# 1751

Delta R.T. -0.01 min

Lab File: BF077106.D

Acq: 28 Jan 2015 17:30

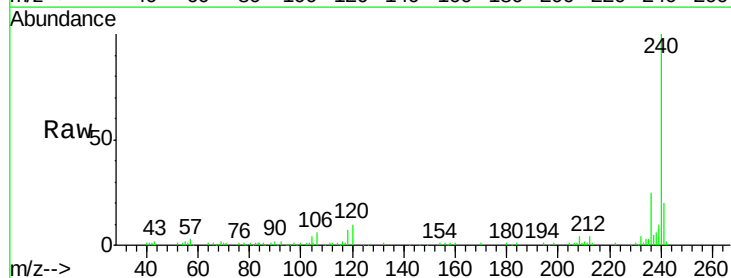
Tgt Ion:240 Resp: 111891

Ion Ratio Lower Upper

240 100

120 9.9 10.4 15.6#

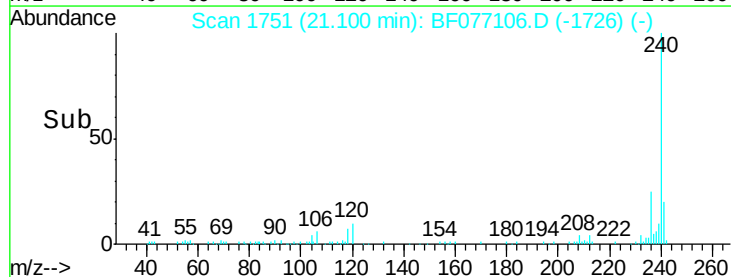
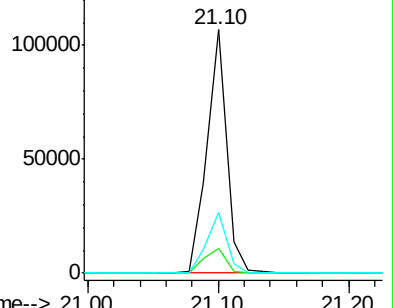
236 25.0 20.2 30.2

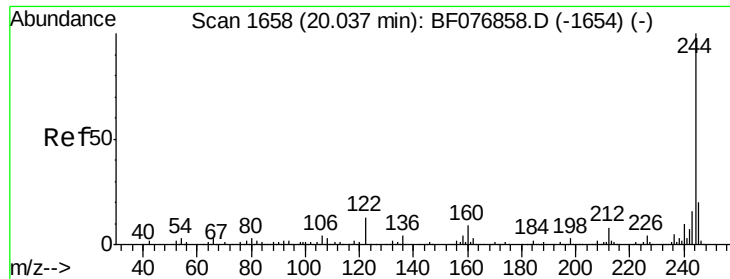


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

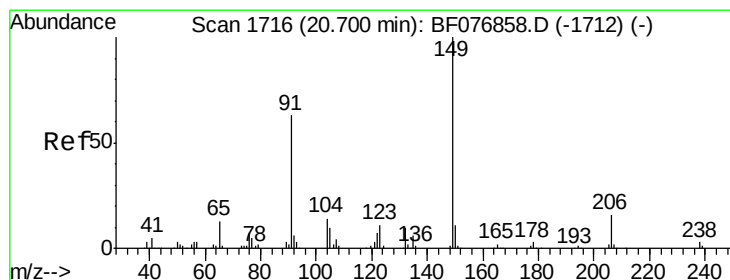
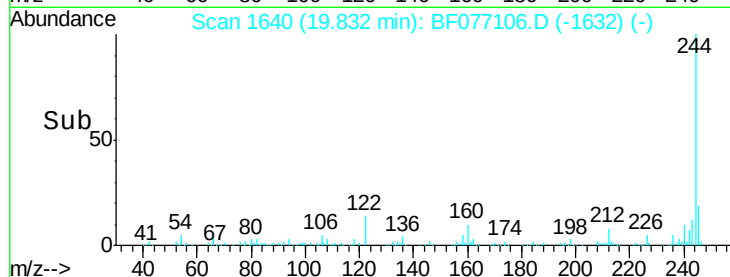
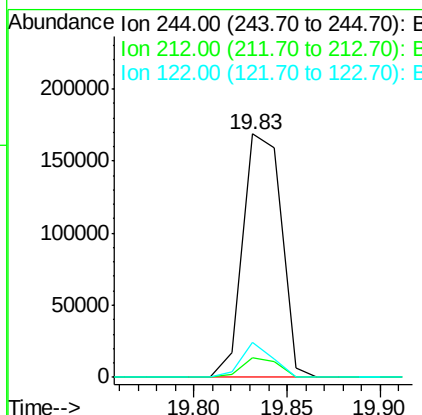
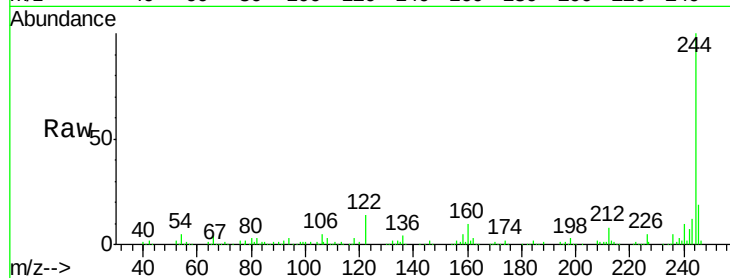




#78  
 Terphenyl-d14  
 Concen: 49.66 ng  
 RT: 19.83 min Scan# 1640  
 Delta R.T. -0.01 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

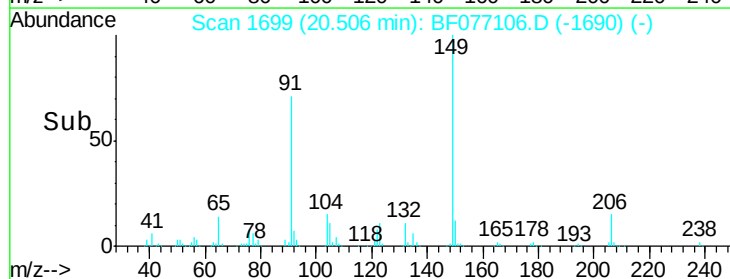
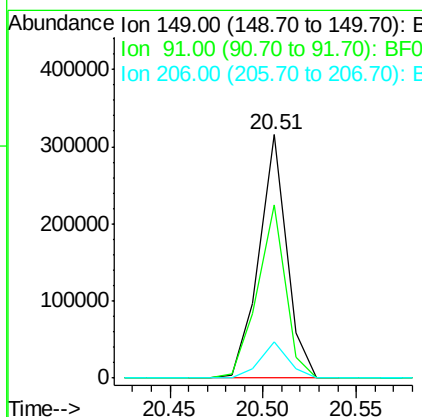
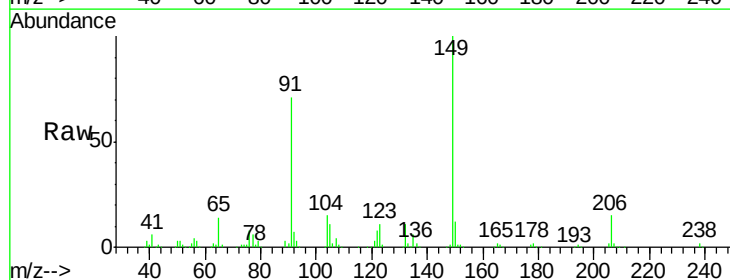
Instrument :  
 BNA\_F  
 ClientSampleId :  
 275B1B

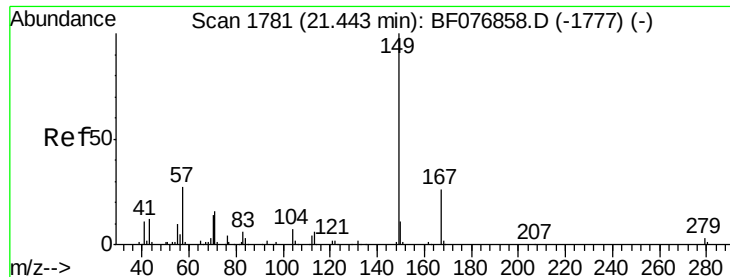
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.0   | 6.3   | 9.5   |
| 122     | 14.4  | 10.1  | 15.1  |



#79  
 Butylbenzylphthalate  
 Concen: 94.00 ng  
 RT: 20.51 min Scan# 1699  
 Delta R.T. -0.00 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 71.2  | 50.6  | 76.0  |
| 206     | 14.7  | 12.8  | 19.2  |

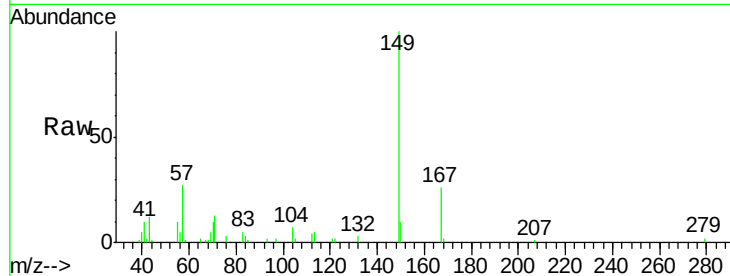




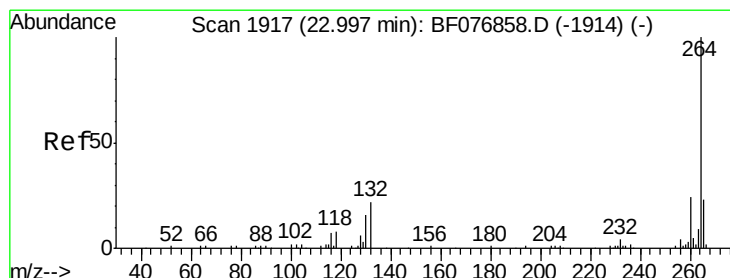
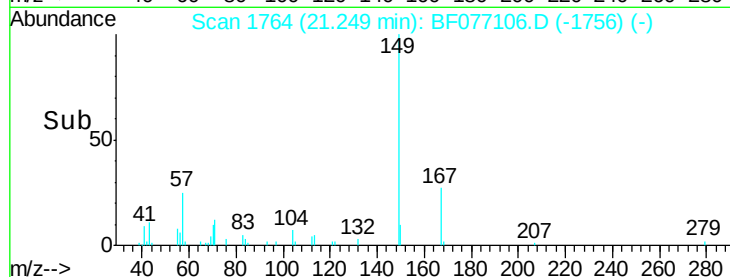
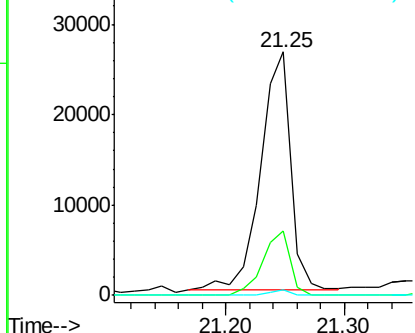
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 9.72 ng  
 RT: 21.25 min Scan# 1764  
 Delta R.T. -0.01 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 275B1B

Tgt Ion:149 Resp: 46698  
 Ion Ratio Lower Upper  
 149 100  
 167 26.3 20.6 30.8  
 279 2.4 2.2 3.2

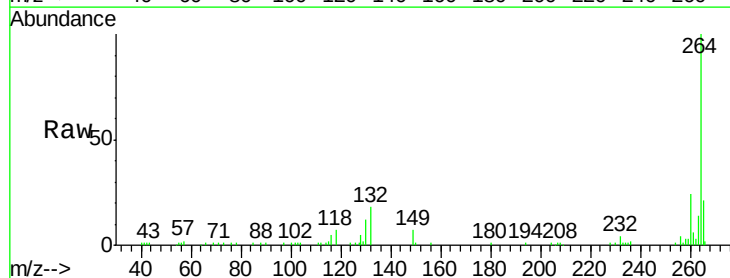


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 22.75 min Scan# 1895  
 Delta R.T. -0.07 min  
 Lab File: BF077106.D  
 Acq: 28 Jan 2015 17:30

Tgt Ion:264 Resp: 86632  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 19.0 28.4  
 265 21.4 18.1 27.1



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

