

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120215\  
 Data File : BF083419.D  
 Acq On : 2 Dec 2015 15:41  
 Operator : UM/IZ  
 Sample : G4582-17  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DUP2-112415

Quant Time: Dec 03 02:44:16 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 01 01:17:16 2015  
 Response via : Initial Calibration

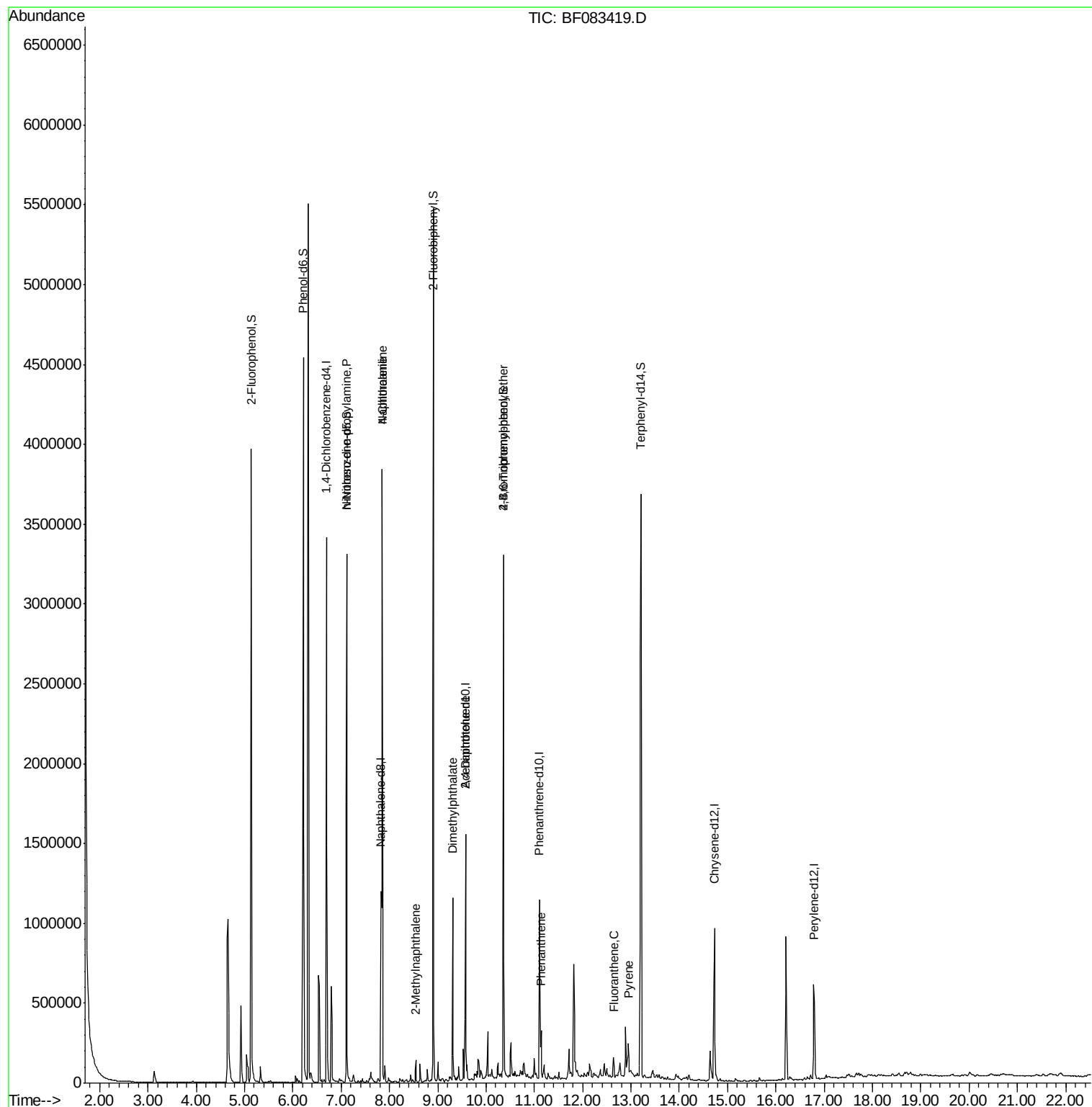
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.69  | 152  | 572206   | 20.00     | ng    | 0.15     |
| 21) Naphthalene-d8             | 7.82  | 136  | 574845   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.57  | 164  | 301224   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.11 | 188  | 533820   | 20.00     | ng    | -0.02    |
| 75) Chrysene-d12               | 14.73 | 240  | 471318   | 20.00     | ng    | -0.03    |
| 86) Perylene-d12               | 16.79 | 264  | 345305   | 20.00     | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.14  | 112  | 1454134  | 38.13     | ng    | 0.01     |
| 7) Phenol-d6                   | 6.21  | 99   | 1791028  | 34.31     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.12  | 82   | 1288876  | 98.56     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.36 | 330  | 366167   | 121.09    | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 8.91  | 172  | 1787002  | 84.54     | ng    | -0.01    |
| 78) Terphenyl-d14              | 13.21 | 244  | 1721344  | 87.10     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.21  | 77   | 3615     | Below Cal | #     | 27       |
| 19) n-Nitroso-di-n-propylamine | 7.12  | 70   | 177132   | 4.75      | ng    | # 79     |
| 31) Naphthalene                | 7.85  | 128  | 1795113  | 57.55     | ng    | 100      |
| 33) 4-Chloroaniline            | 7.85  | 127  | 241265   | 17.94     | ng    | # 32     |
| 37) 2-Methylnaphthalene        | 8.54  | 142  | 46673    | 2.24      | ng    | 98       |
| 49) Dimethylphthalate          | 9.31  | 163  | 418176   | 17.08     | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.57  | 165  | 39398    | 5.94      | ng    | # 6      |
| 66) 4-Bromophenyl-phenylether  | 10.36 | 248  | 25437    | 4.36      | ng    | # 1      |
| 70) Phenanthrene               | 11.14 | 178  | 139777   | 4.42      | ng    | 99       |
| 74) Fluoranthene               | 12.64 | 202  | 70301    | 2.15      | ng    | 96       |
| 77) Pyrene                     | 12.95 | 202  | 100357   | 3.05      | ng    | 97       |

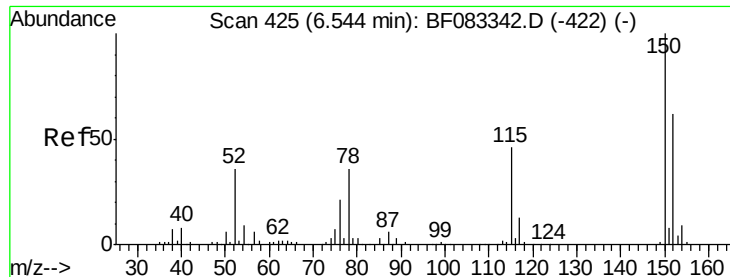
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120215\  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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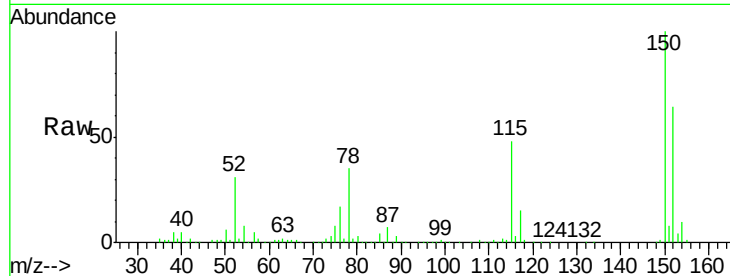


#1

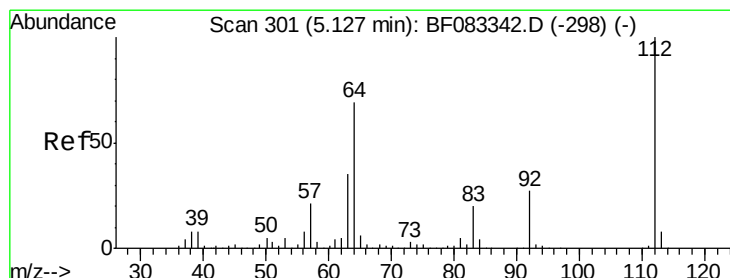
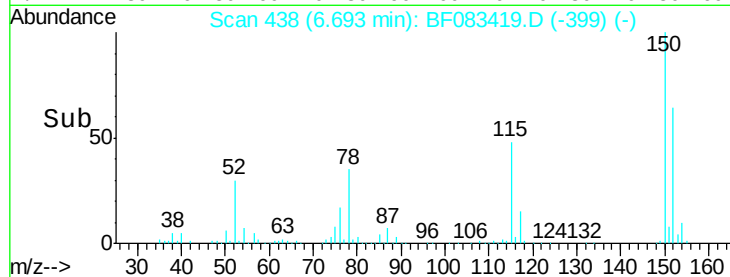
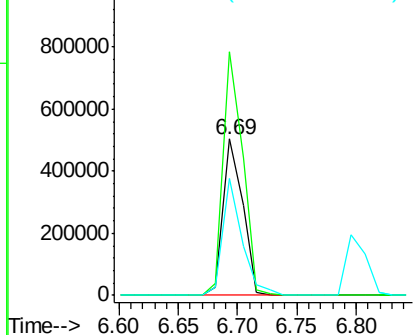
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.69 min Scan# 438  
Delta R.T. 0.15 min  
Lab File: BF083419.D  
Acq: 2 Dec 2015 15:41

Instrument :  
BNA\_F  
ClientSampleId :  
DUP2-112415

Tgt Ion:152 Resp: 572206  
Ion Ratio Lower Upper  
152 100  
150 155.8 129.8 194.8  
115 75.1 59.2 88.8



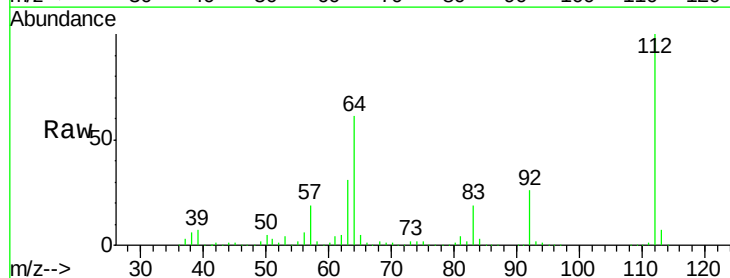
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



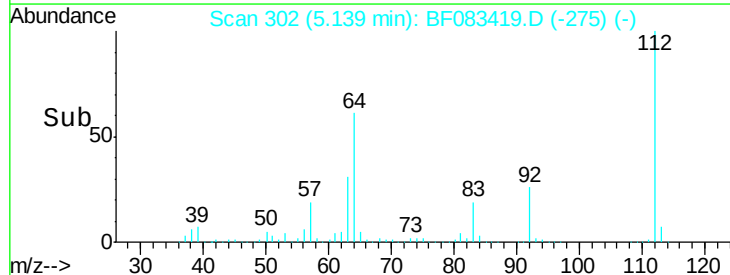
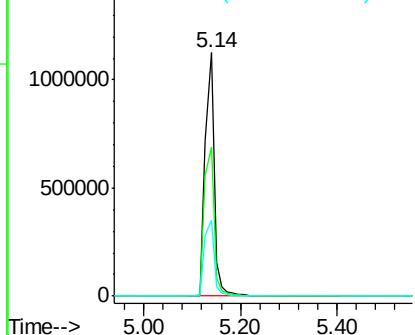
#5

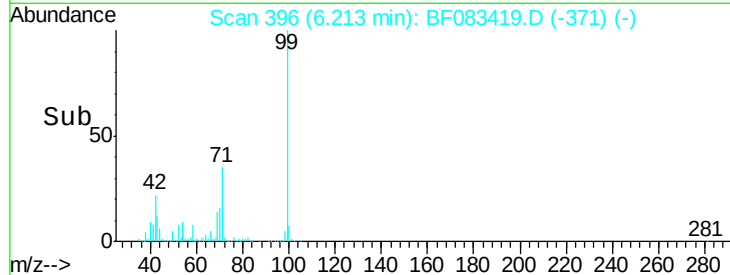
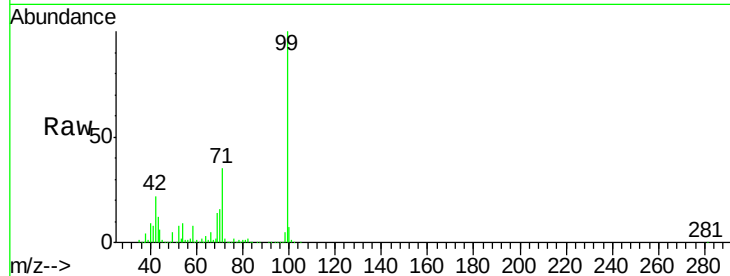
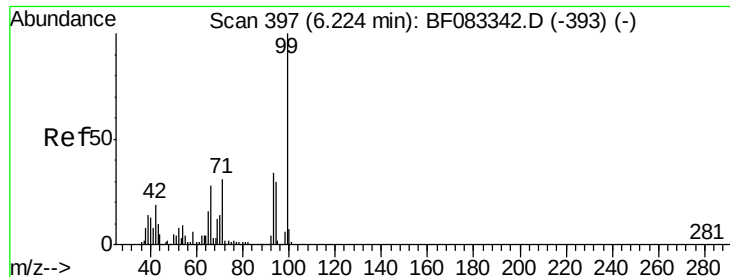
2-Fluorophenol  
Concen: 38.13 ng  
RT: 5.14 min Scan# 302  
Delta R.T. 0.01 min  
Lab File: BF083419.D  
Acq: 2 Dec 2015 15:41

Tgt Ion:112 Resp: 1454134  
Ion Ratio Lower Upper  
112 100  
64 61.4 55.6 83.4  
63 31.4 28.2 42.2



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



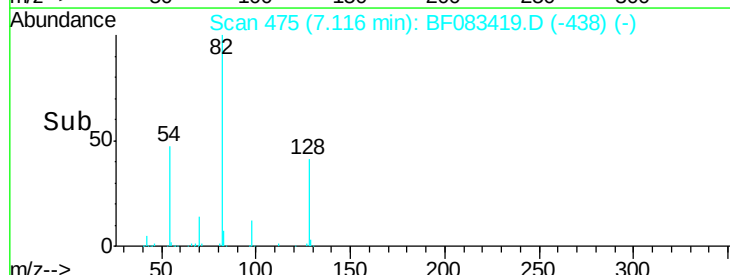
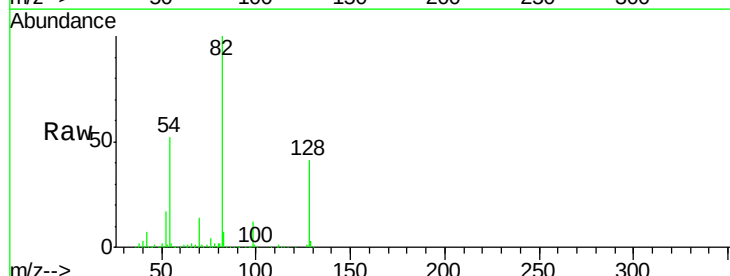
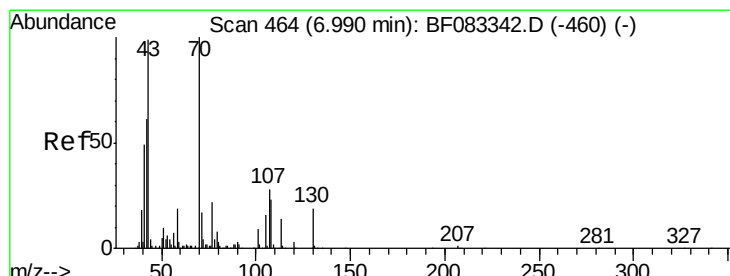
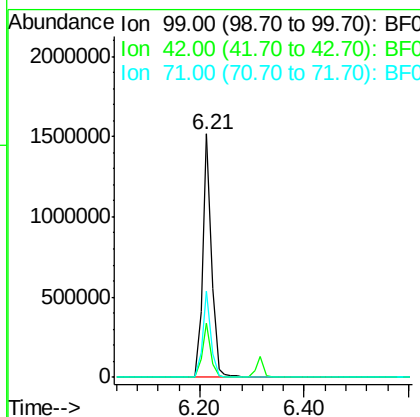


#7  
 Phenol-d6  
 Concen: 34.31 ng  
 RT: 6.21 min Scan# 396  
 Delta R.T. -0.01 min  
 Lab File: BF083419.D  
 Acq: 2 Dec 2015 15:41

Tgt Ion: 99 Resp: 1791028

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 22.4  | 14.9  | 22.3# |
| 71  | 35.3  | 24.7  | 37.1  |

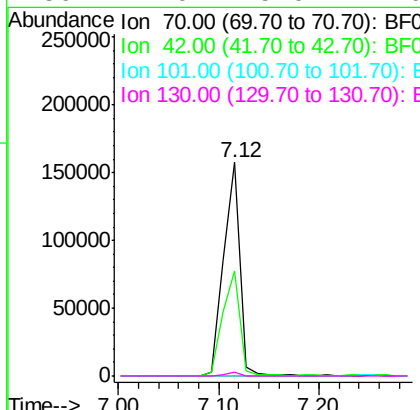
Instrument :  
 BNA\_F  
 ClientSampleId :  
 DUP2-112415

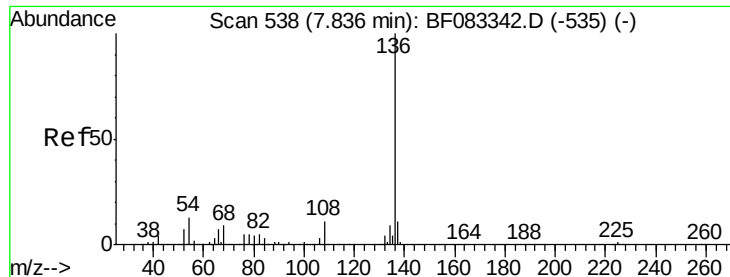


#19  
 n-Nitroso-di-n-propylamine  
 Concen: 4.75 ng  
 RT: 7.12 min Scan# 475  
 Delta R.T. 0.13 min  
 Lab File: BF083419.D  
 Acq: 2 Dec 2015 15:41

Tgt Ion: 70 Resp: 177132

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 48.9  | 48.8  | 73.2  |
| 101 | 0.0   | 7.1   | 10.7# |
| 130 | 2.0   | 15.0  | 22.6# |

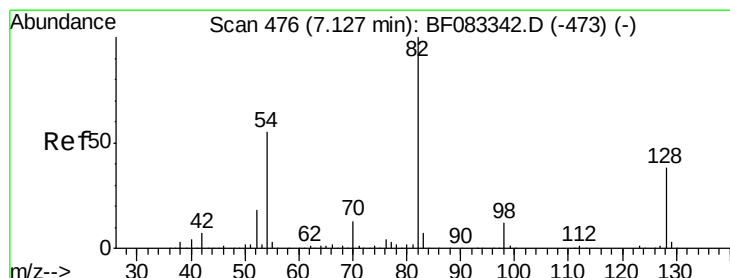
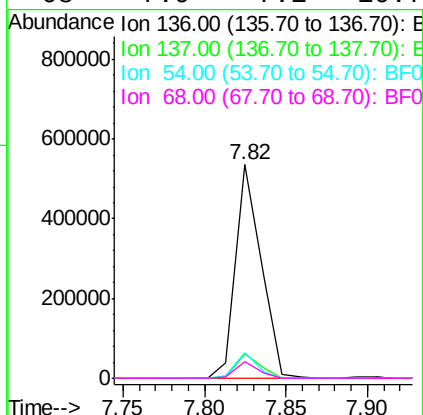
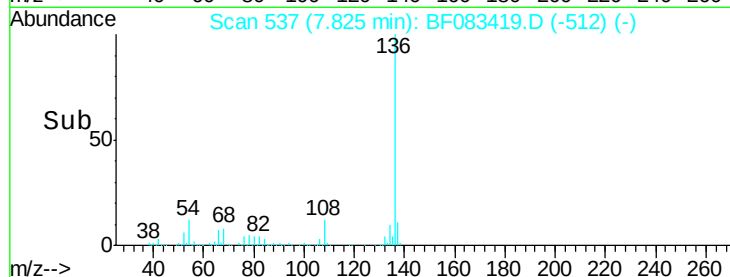
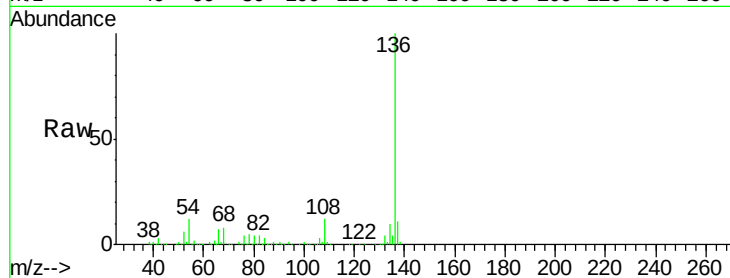




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.82 min Scan# 537  
Delta R.T. -0.01 min  
Lab File: BF083419.D  
Acq: 2 Dec 2015 15:41

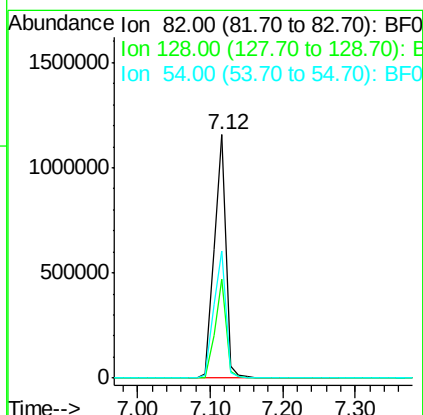
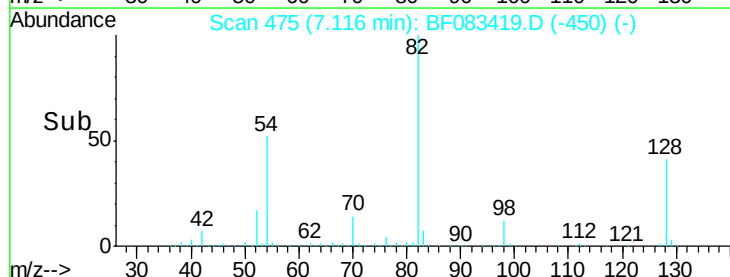
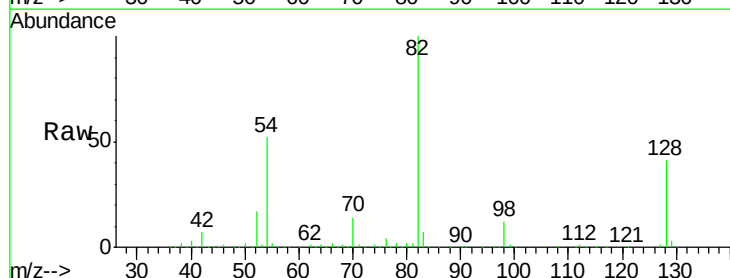
Instrument :  
BNA\_F  
ClientSampleId :  
DUP2-112415

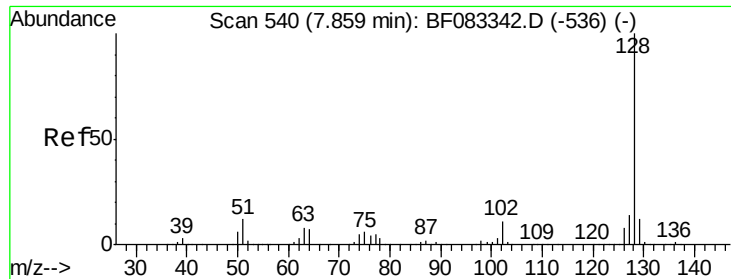
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 574845 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.0   | 13.4   |
| 54       | 11.9  | 10.1  | 15.1   |
| 68       | 7.9   | 7.1   | 10.7   |



#23  
Nitrobenzene-d5  
Concen: 98.56 ng  
RT: 7.12 min Scan# 475  
Delta R.T. -0.01 min  
Lab File: BF083419.D  
Acq: 2 Dec 2015 15:41

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1288876 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 40.8  | 30.6  | 46.0    |
| 54       | 52.1  | 43.8  | 65.6    |

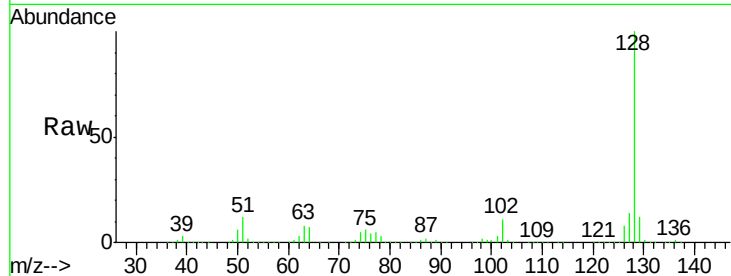




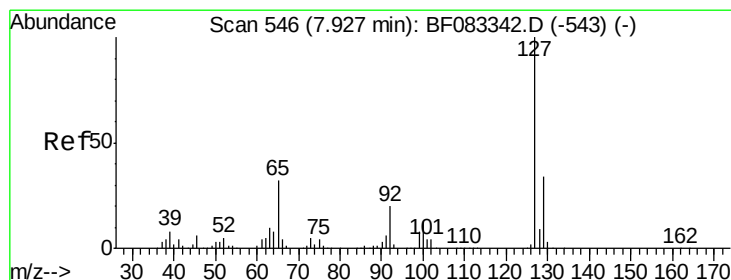
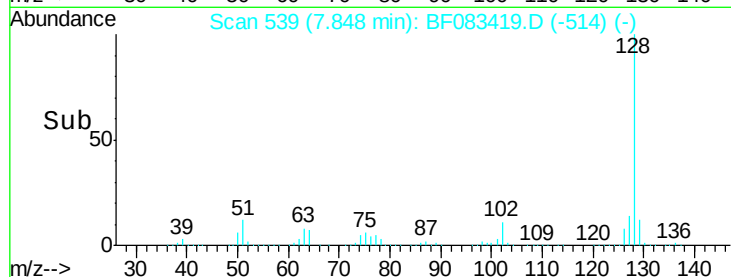
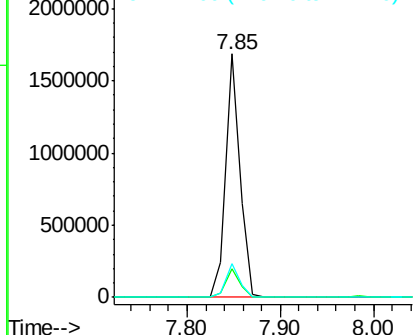
#31  
Naphthalene  
Concen: 57.55 ng  
RT: 7.85 min Scan# 539  
Delta R.T. -0.01 min  
Lab File: BF083419.D  
Acq: 2 Dec 2015 15:41

Instrument :  
BNA\_F  
ClientSampleId :  
DUP2-112415

Tgt Ion:128 Resp: 1795113  
Ion Ratio Lower Upper  
128 100  
129 11.9 9.7 14.5  
127 13.8 11.0 16.4

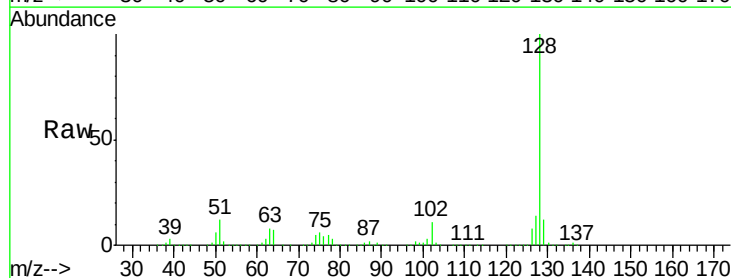


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

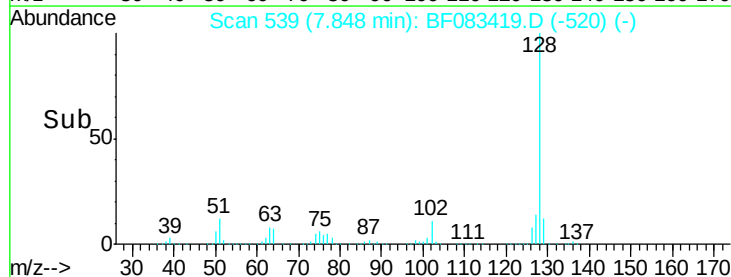
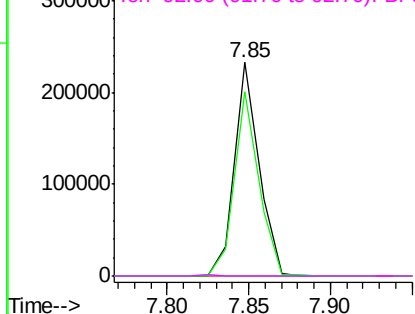


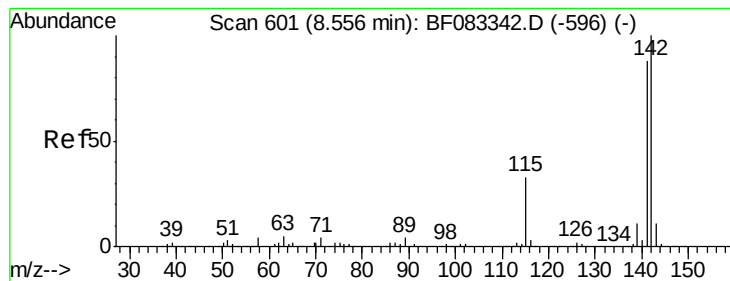
#33  
4-Chloroaniline  
Concen: 17.94 ng  
RT: 7.85 min Scan# 539  
Delta R.T. -0.08 min  
Lab File: BF083419.D  
Acq: 2 Dec 2015 15:41

Tgt Ion:127 Resp: 241265  
Ion Ratio Lower Upper  
127 100  
129 86.5 27.0 40.4#  
65 0.0 25.9 38.9#  
92 0.0 15.8 23.8#



Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0





#37

2-Methylnaphthalene

Concen: 2.24 ng

RT: 8.54 min Scan# 600

Delta R.T. -0.01 min

Lab File: BF083419.D

Acq: 2 Dec 2015 15:41

Instrument :

BNA\_F

ClientSampleId :

DUP2-112415

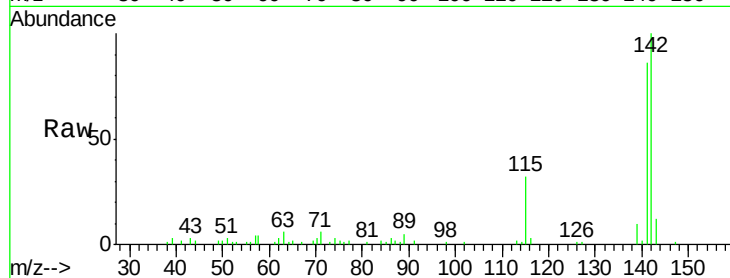
Tgt Ion:142 Resp: 46673

Ion Ratio Lower Upper

142 100

141 85.7 70.6 105.8

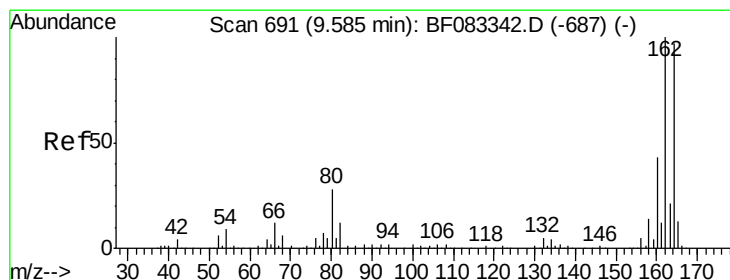
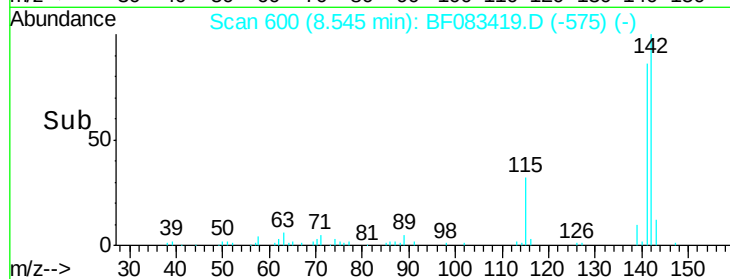
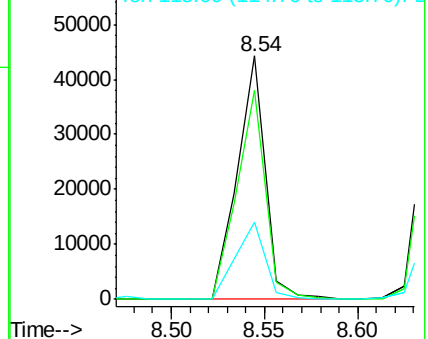
115 31.7 26.2 39.2



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: 9.57 min Scan# 690

Delta R.T. -0.01 min

Lab File: BF083419.D

Acq: 2 Dec 2015 15:41

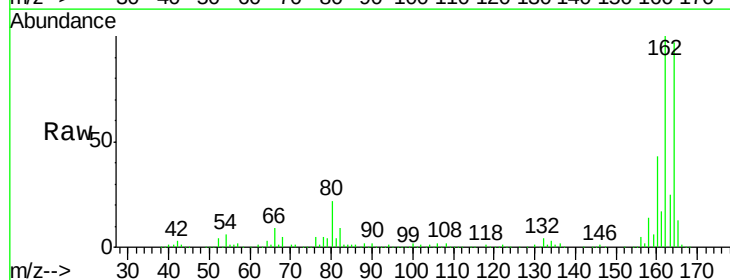
Tgt Ion:164 Resp: 301224

Ion Ratio Lower Upper

164 100

162 102.6 82.6 123.8

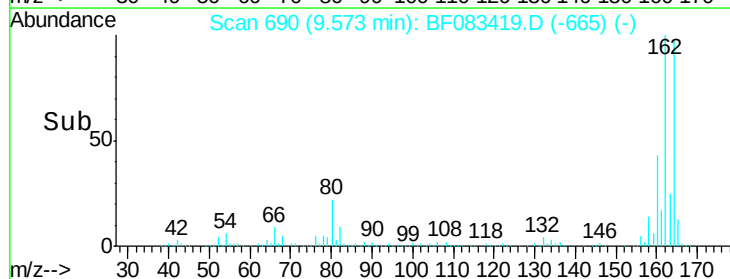
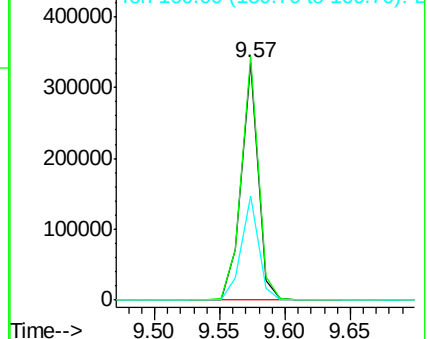
160 44.1 35.3 52.9

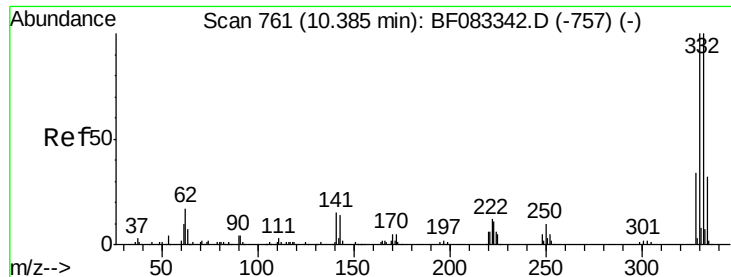


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

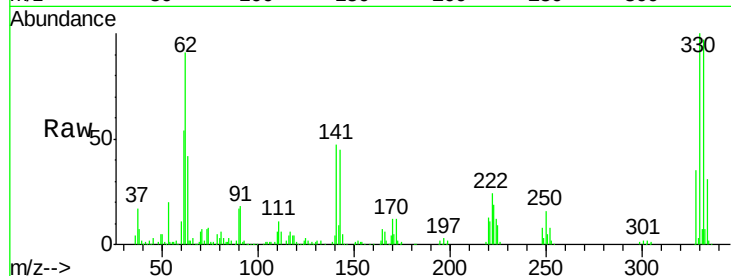




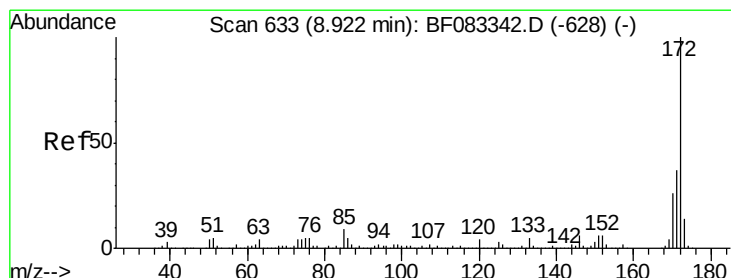
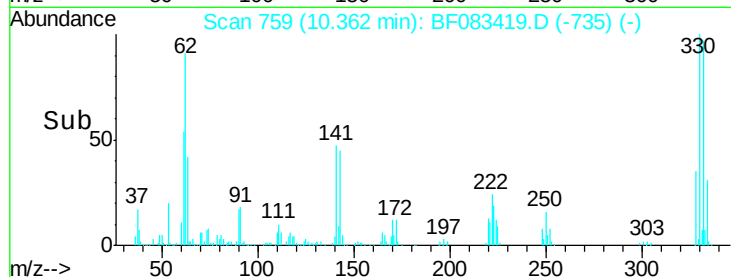
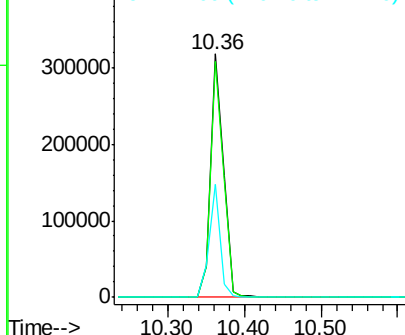
#41  
 2,4,6-Tribromophenol  
 Concen: 121.09 ng  
 RT: 10.36 min Scan# 759  
 Delta R.T. -0.02 min  
 Lab File: BF083419.D  
 Acq: 2 Dec 2015 15:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DUP2-112415

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 77.8  | 116.6 |
| 141     | 40.4  | 29.4  | 44.0  |

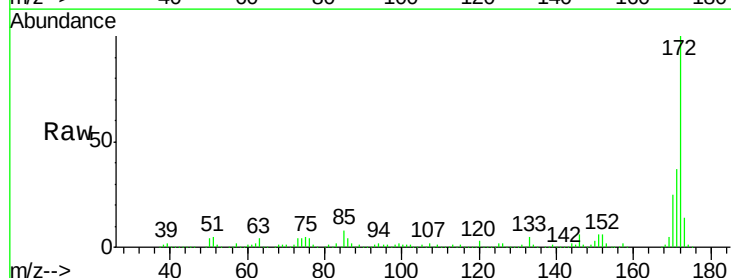


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

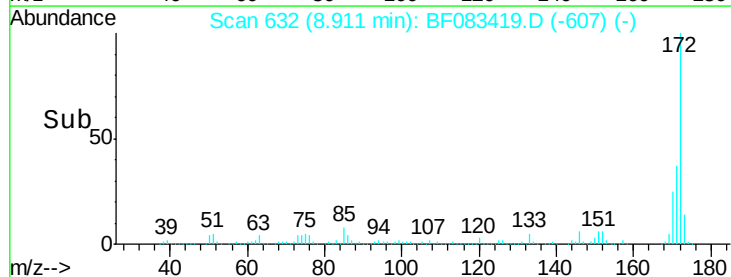
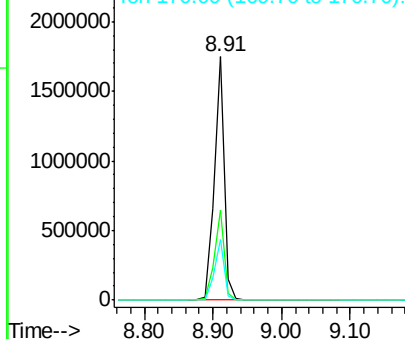


#44  
 2-Fluorobiphenyl  
 Concen: 84.54 ng  
 RT: 8.91 min Scan# 632  
 Delta R.T. -0.01 min  
 Lab File: BF083419.D  
 Acq: 2 Dec 2015 15:41

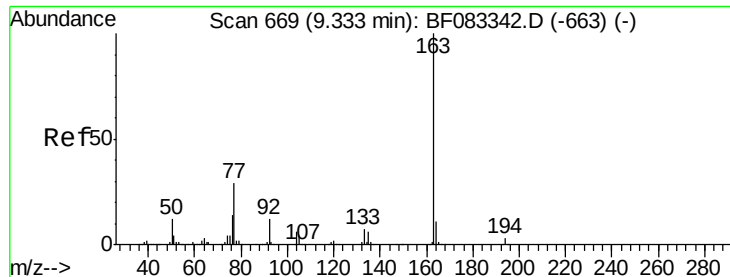
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 29.4  | 44.0  |
| 170     | 25.1  | 20.4  | 30.6  |



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: 17.08 ng

RT: 9.31 min Scan# 667

Delta R.T. -0.02 min

Lab File: BF083419.D

Acq: 2 Dec 2015 15:41

Instrument :

BNA\_F

ClientSampleId :

DUP2-112415

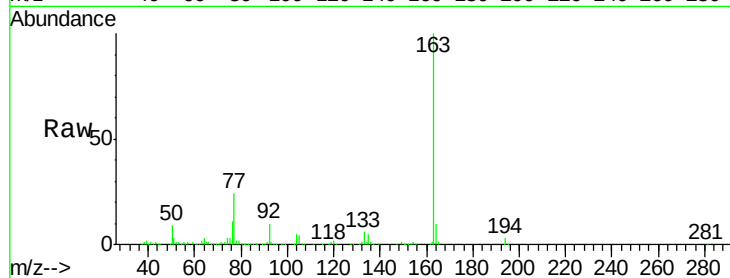
Tgt Ion:163 Resp: 418176

Ion Ratio Lower Upper

163 100

194 3.4 2.7 4.1

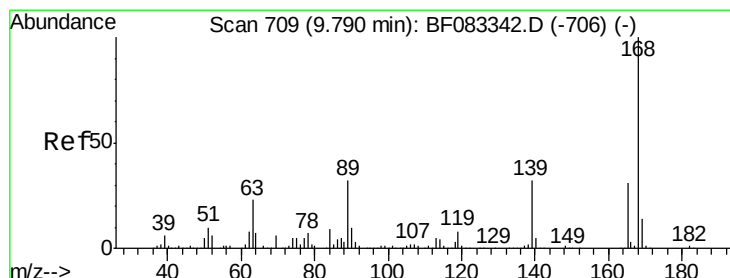
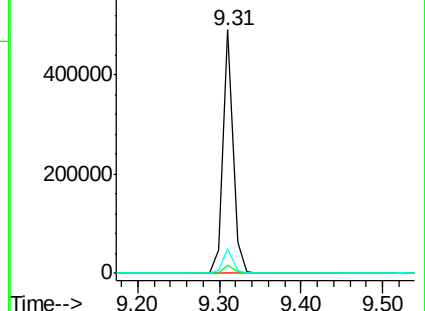
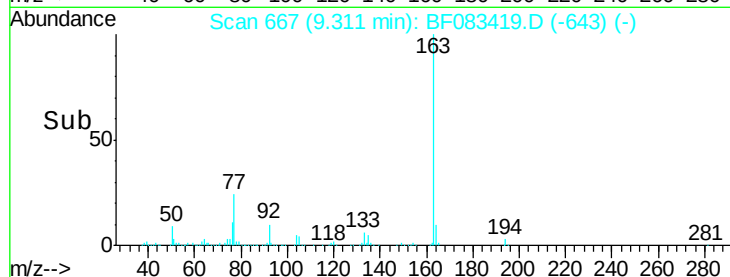
164 10.3 8.8 13.2



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



#56

2,4-Dinitrotoluene

Concen: 5.94 ng

RT: 9.57 min Scan# 690

Delta R.T. -0.22 min

Lab File: BF083419.D

Acq: 2 Dec 2015 15:41

Tgt Ion:165 Resp: 39398

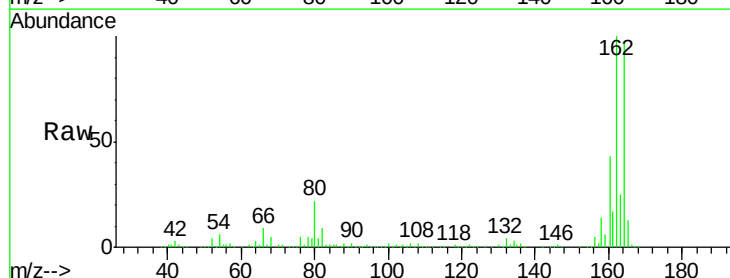
Ion Ratio Lower Upper

165 100

63 1.9 65.4 98.0#

89 1.6 81.2 121.8#

182 0.0 1.8 2.8#

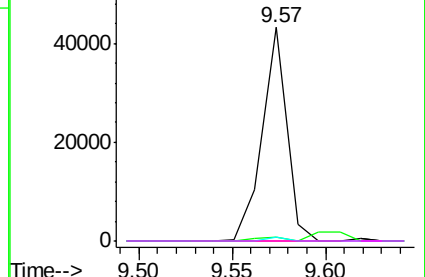
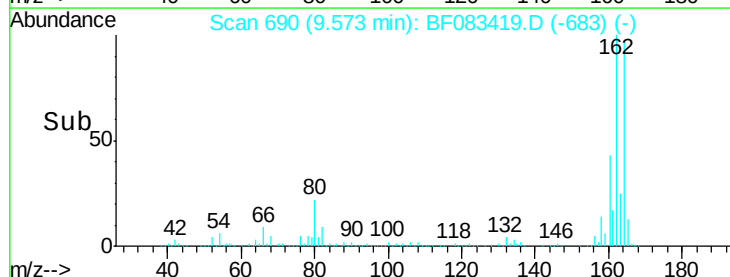


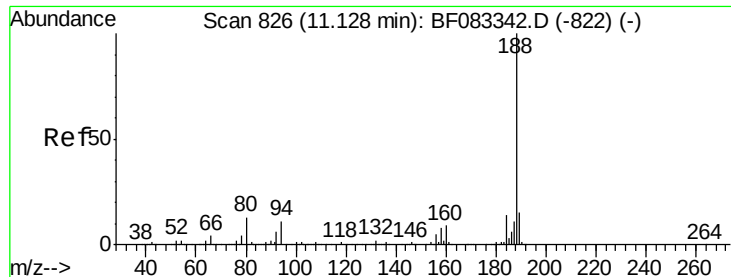
Abundance Ion 165.00 (164.70 to 165.70): E

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

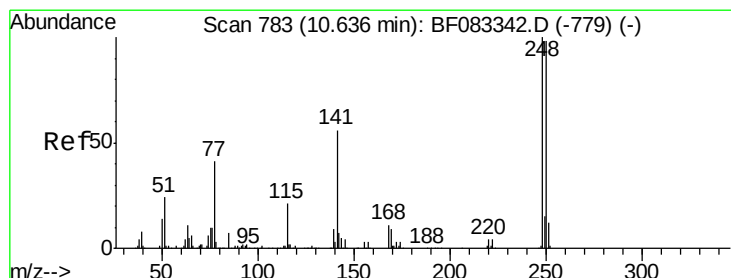
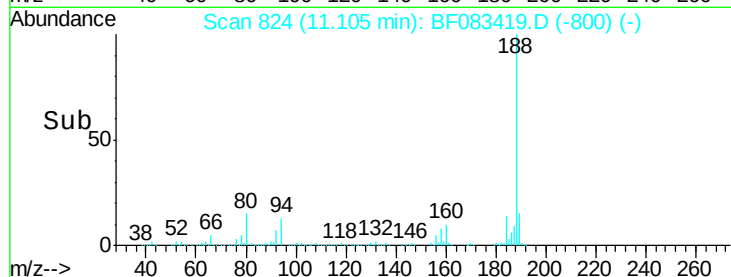
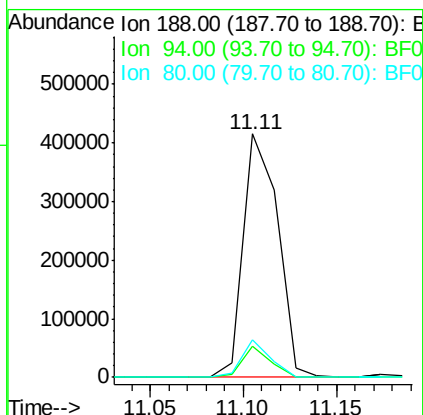
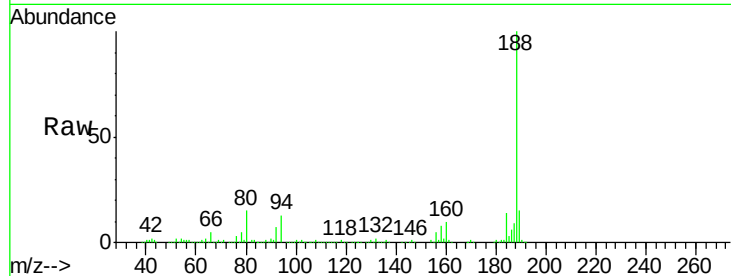




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.11 min Scan# 824  
Delta R.T. -0.02 min  
Lab File: BF083419.D  
Acq: 2 Dec 2015 15:41

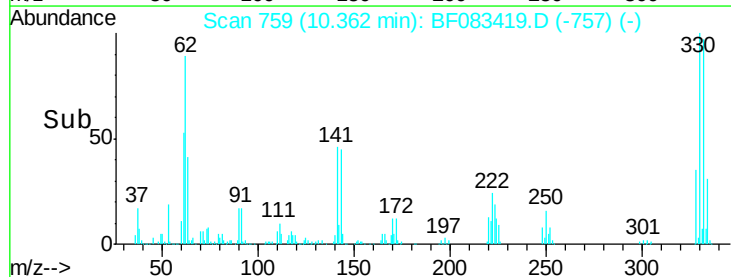
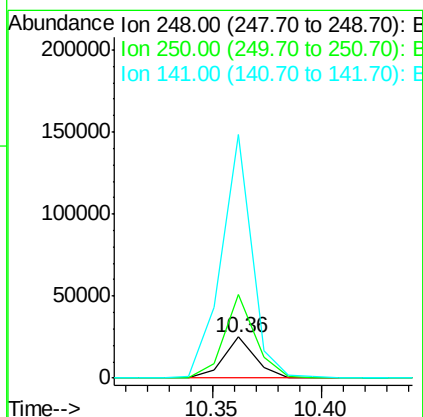
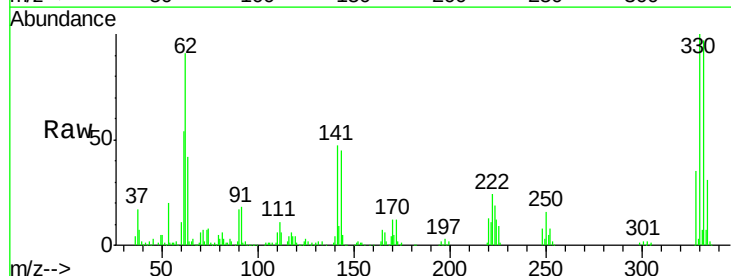
Instrument :  
BNA\_F  
ClientSampleId :  
DUP2-112415

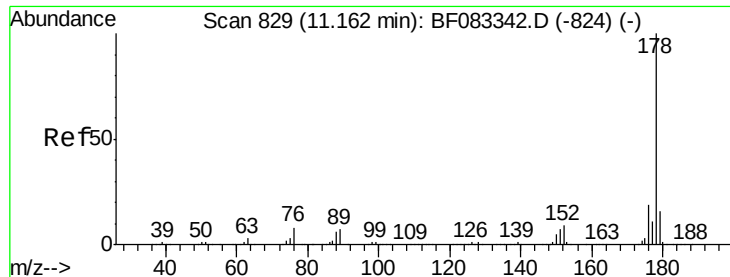
Tgt Ion:188 Resp: 533820  
Ion Ratio Lower Upper  
188 100  
94 13.0 8.7 13.1  
80 15.5 10.3 15.5#



#66  
4-Bromophenyl-phenylether  
Concen: 4.36 ng  
RT: 10.36 min Scan# 759  
Delta R.T. -0.27 min  
Lab File: BF083419.D  
Acq: 2 Dec 2015 15:41

Tgt Ion:248 Resp: 25437  
Ion Ratio Lower Upper  
248 100  
250 204.3 78.6 118.0#  
141 596.0 44.4 66.6#

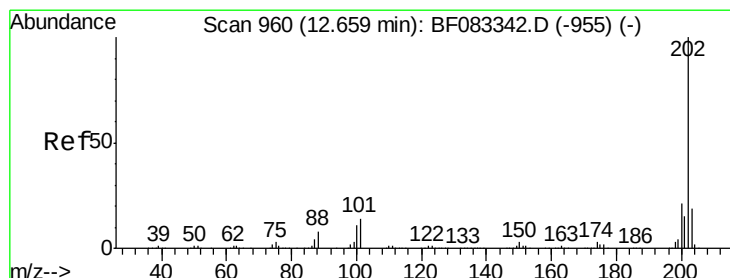
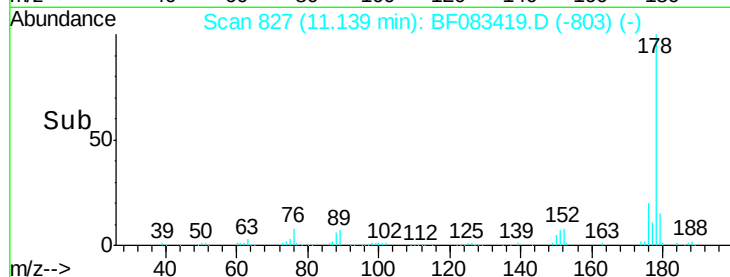
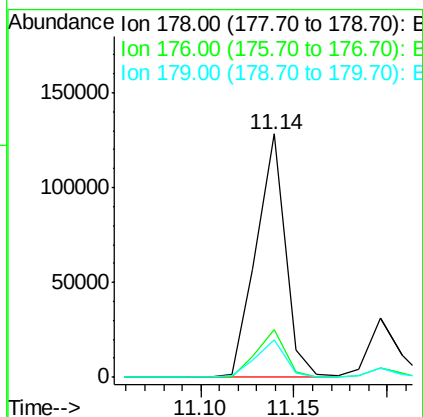
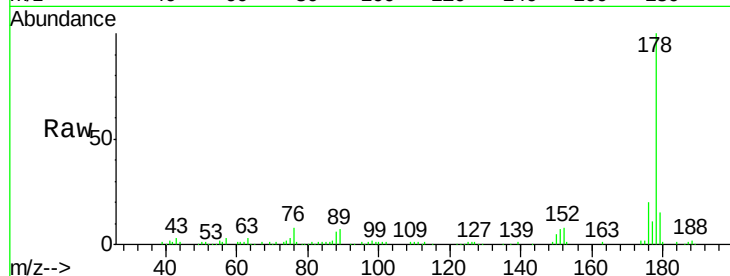




#70  
Phenanthrene  
Concen: 4.42 ng  
RT: 11.14 min Scan# 827  
Delta R.T. -0.02 min  
Lab File: BF083419.D  
Acq: 2 Dec 2015 15:41

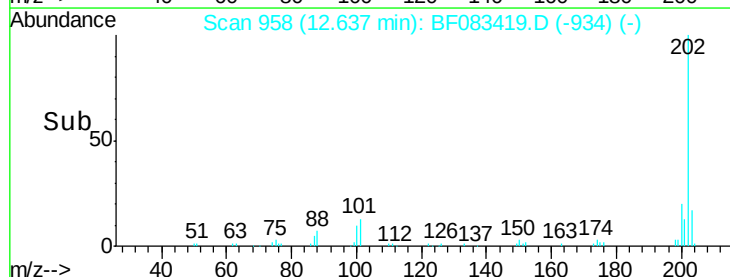
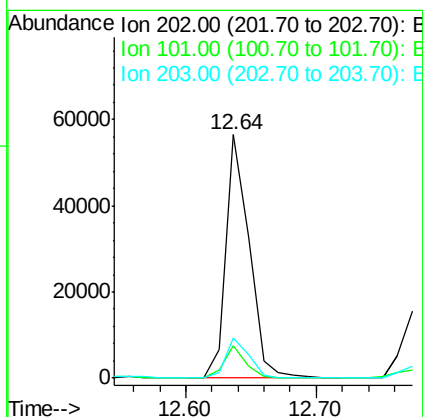
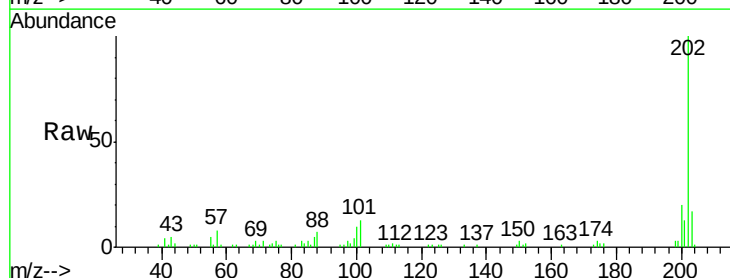
Instrument :  
BNA\_F  
ClientSampleId :  
DUP2-112415

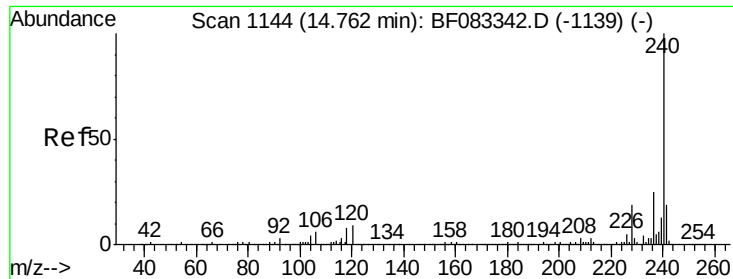
Tgt Ion:178 Resp: 139777  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.3 22.9  
179 15.2 12.4 18.6



#74  
Fluoranthene  
Concen: 2.15 ng  
RT: 12.64 min Scan# 958  
Delta R.T. -0.02 min  
Lab File: BF083419.D  
Acq: 2 Dec 2015 15:41

Tgt Ion:202 Resp: 70301  
Ion Ratio Lower Upper  
202 100  
101 13.3 0.0 34.5  
203 16.6 0.0 38.7

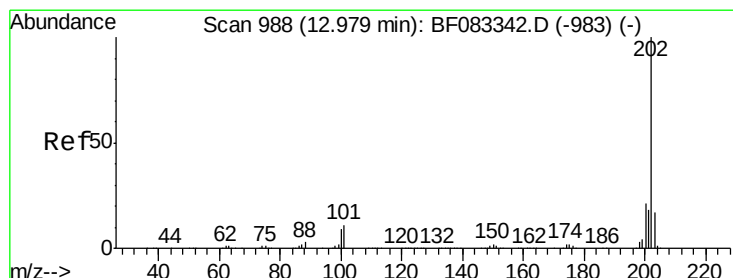
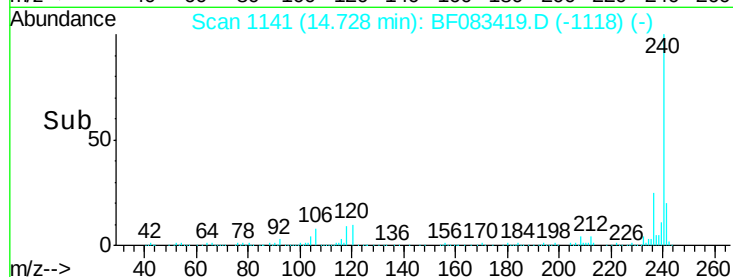
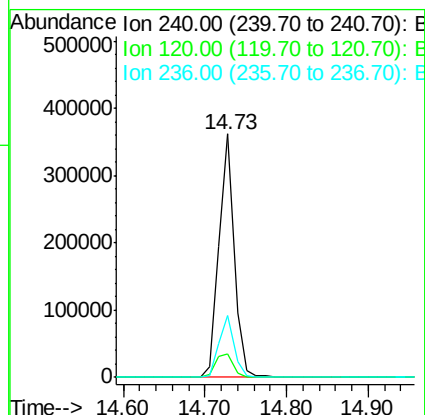
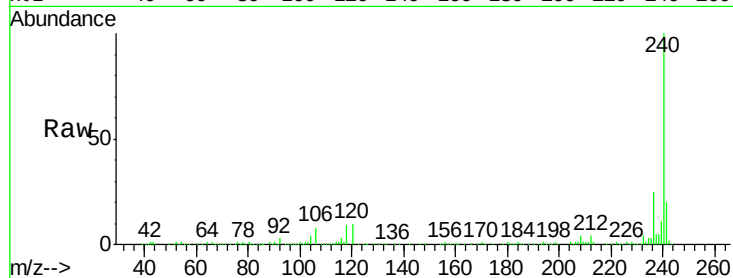




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.73 min Scan# 1141  
 Delta R.T. -0.03 min  
 Lab File: BF083419.D  
 Acq: 2 Dec 2015 15:41

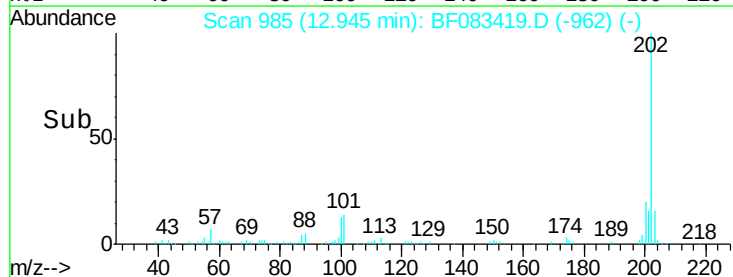
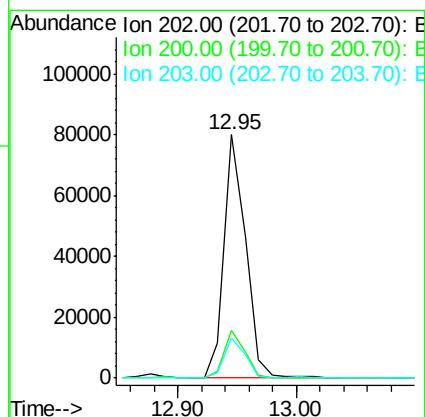
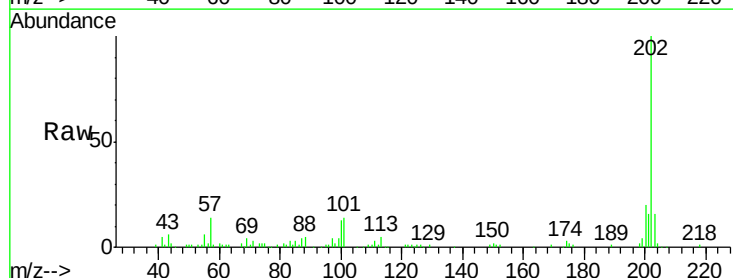
Instrument :  
 BNA\_F  
 ClientSampleId :  
 DUP2-112415

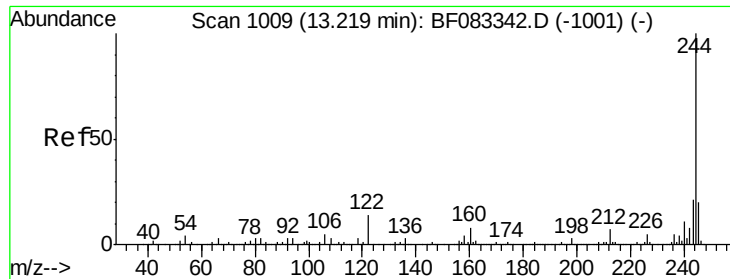
Tgt Ion:240 Resp: 471318  
 Ion Ratio Lower Upper  
 240 100  
 120 9.7 6.9 10.3  
 236 25.3 19.8 29.6



#77  
 Pyrene  
 Concen: 3.05 ng  
 RT: 12.95 min Scan# 985  
 Delta R.T. -0.03 min  
 Lab File: BF083419.D  
 Acq: 2 Dec 2015 15:41

Tgt Ion:202 Resp: 100357  
 Ion Ratio Lower Upper  
 202 100  
 200 19.5 16.9 25.3  
 203 16.3 13.9 20.9

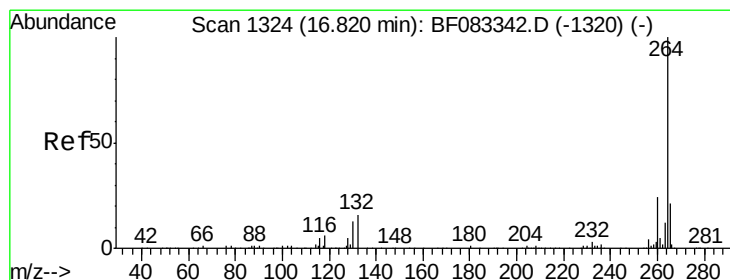
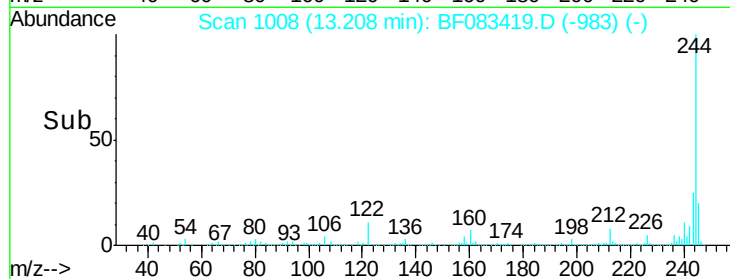
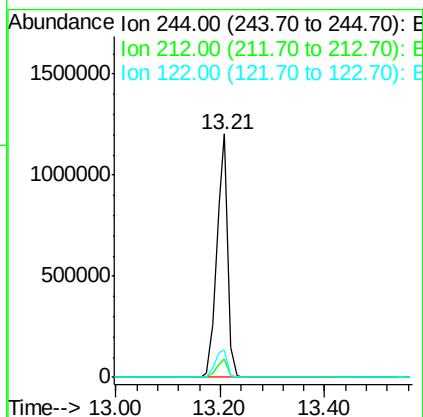
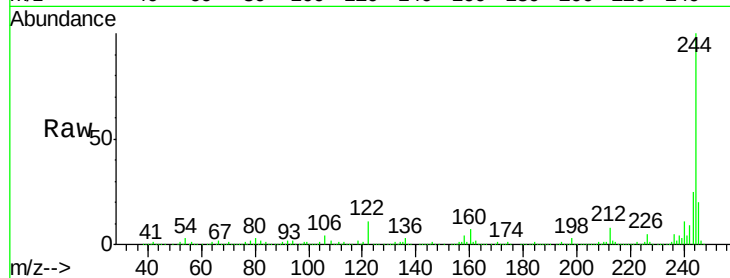




#78  
 Terphenyl-d14  
 Concen: 87.10 ng  
 RT: 13.21 min Scan# 1008  
 Delta R.T. -0.01 min  
 Lab File: BF083419.D  
 Acq: 2 Dec 2015 15:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DUP2-112415

Tgt Ion:244 Resp: 1721344  
 Ion Ratio Lower Upper  
 244 100  
 212 7.6 5.8 8.8  
 122 11.2 11.0 16.4



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 16.79 min Scan# 1321  
 Delta R.T. -0.03 min  
 Lab File: BF083419.D  
 Acq: 2 Dec 2015 15:41

Tgt Ion:264 Resp: 345305  
 Ion Ratio Lower Upper  
 264 100  
 260 23.2 19.0 28.4  
 265 21.5 16.8 25.2

