

Data Path : Z:\HPCHEM1\BNA F\DATA\BF033117\  
 Data File : BF094096.D  
 Acq On : 31 Mar 2017 15:16  
 Operator : SJ/MA  
 Sample : I2458-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 31 23:07:06 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 31 14:38:29 2017  
 Response via : Initial Calibration

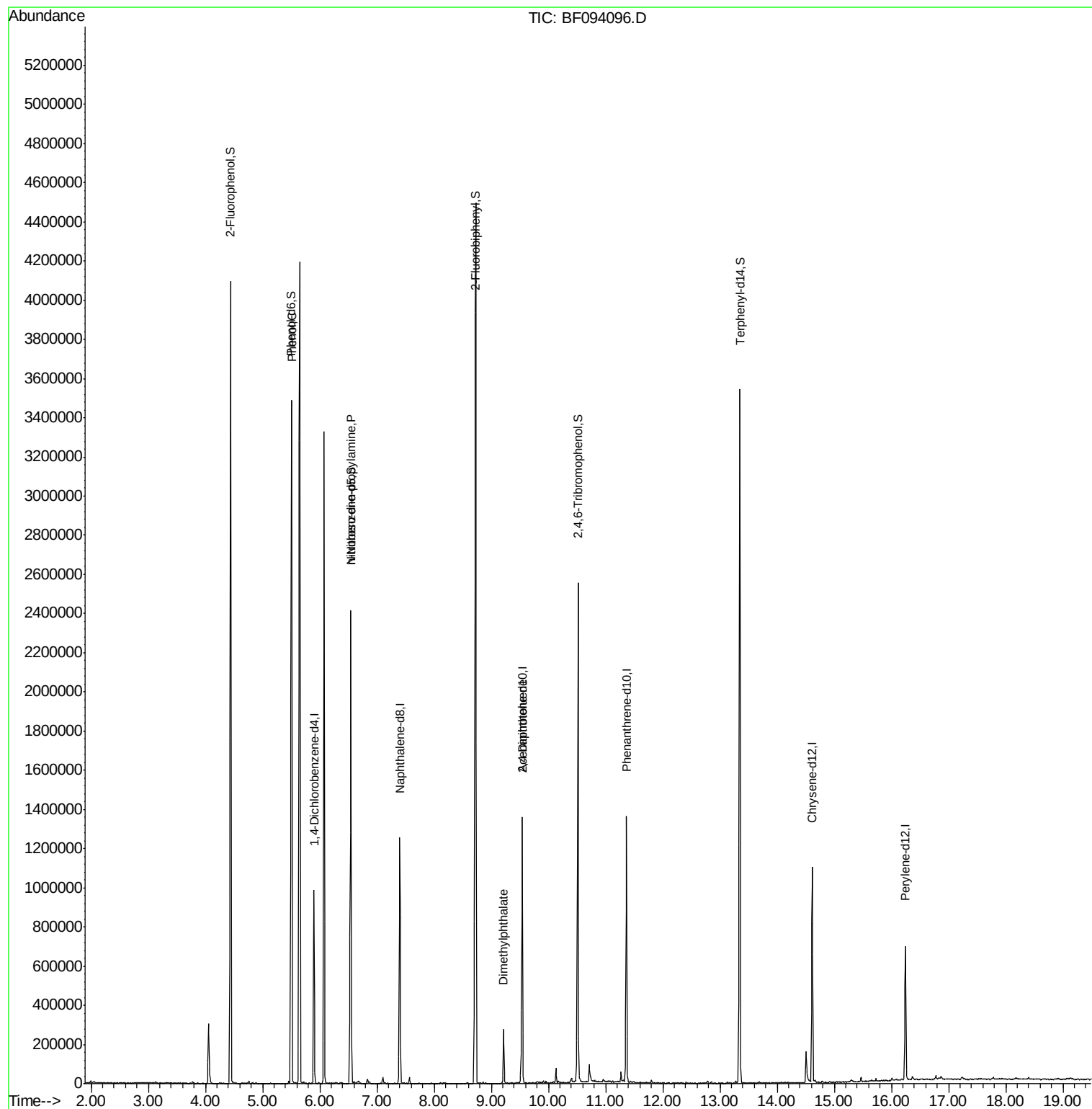
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 5.90  | 152  | 167134   | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8             | 7.40  | 136  | 671784   | 20.00  | ng    | -0.01     |
| 38) Acenaphthene-d10           | 9.54  | 164  | 307408   | 20.00  | ng    | -0.01     |
| 63) Phenanthrene-d10           | 11.36 | 188  | 537384   | 20.00  | ng    | -0.01     |
| 75) Chrysene-d12               | 14.62 | 240  | 412747   | 20.00  | ng    | -0.01     |
| 86) Perylene-d12               | 16.24 | 264  | 276845   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 4.44  | 112  | 1405960  | 142.08 | ng    | 0.00      |
| 7) Phenol-d6                   | 5.51  | 99   | 1775333  | 145.03 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 6.55  | 82   | 1121911  | 95.31  | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 10.52 | 330  | 371137   | 152.78 | ng    | 0.00      |
| 44) 2-Fluorobiphenyl           | 8.73  | 172  | 1904391  | 94.49  | ng    | 0.00      |
| 78) Terphenyl-d14              | 13.35 | 244  | 1427798  | 77.54  | ng    | 0.00      |
| Target Compounds               |       |      |          |        |       |           |
| 10) Phenol                     | 5.52  | 94   | 38990    | 2.80   | ng    | Qvalue 96 |
| 19) n-Nitroso-di-n-propylamine | 6.55  | 70   | 148458   | 18.87  | ng    | # 78      |
| 49) Dimethylphthalate          | 9.22  | 163  | 125121   | 5.73   | ng    | 100       |
| 56) 2,4-Dinitrotoluene         | 9.54  | 165  | 37775    | 6.00   | ng    | # 33      |

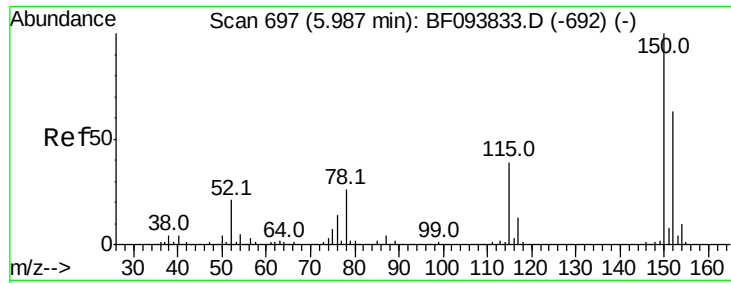
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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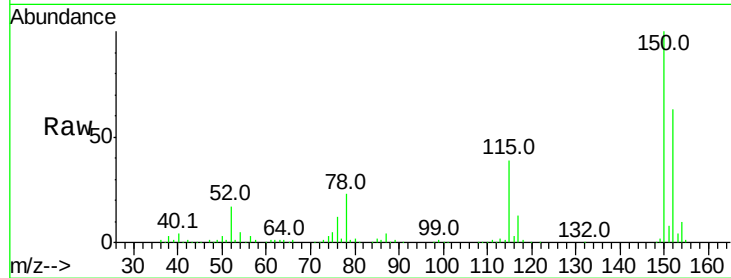


#1

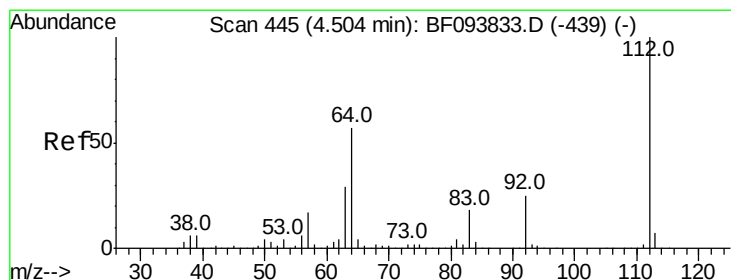
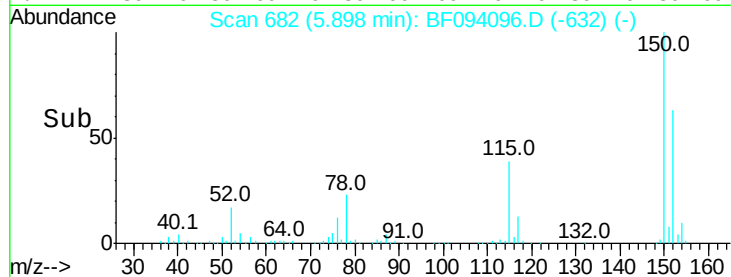
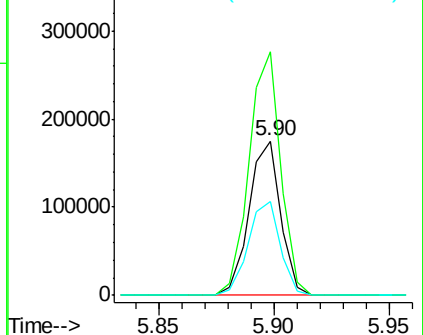
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.90 min Scan# 682  
Delta R.T. -0.01 min  
Lab File: BF094096.D  
Acq: 31 Mar 2017 15:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 167134  
Ion Ratio Lower Upper  
152 100  
150 157.5 126.2 189.2  
115 60.8 52.2 78.2



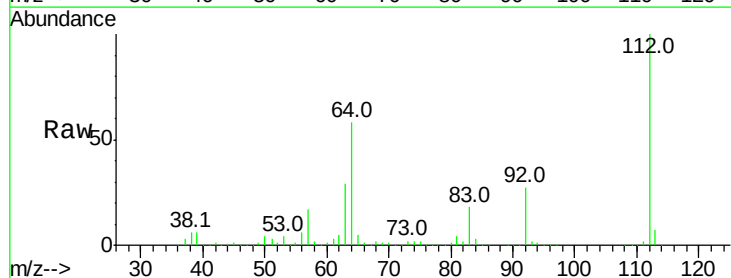
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



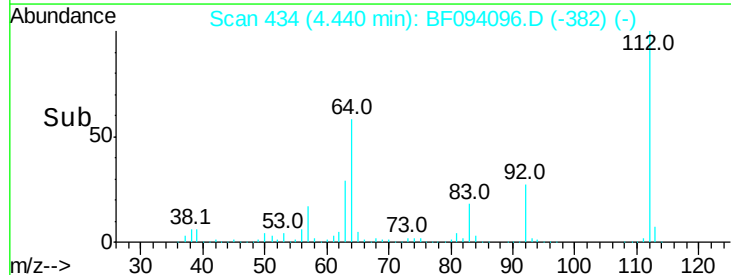
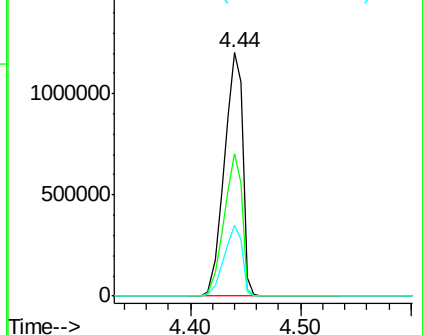
#5

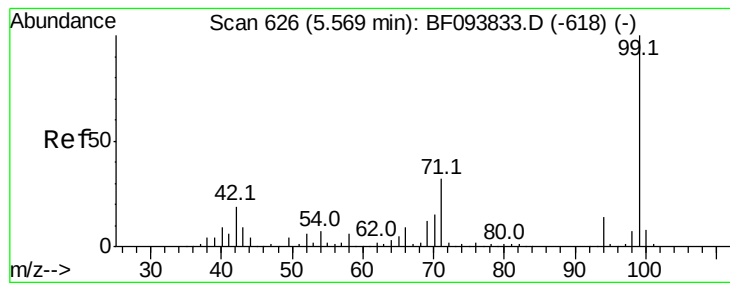
2-Fluorophenol  
Concen: 142.08 ng  
RT: 4.44 min Scan# 434  
Delta R.T. 0.01 min  
Lab File: BF094096.D  
Acq: 31 Mar 2017 15:16

Tgt Ion:112 Resp: 1405960  
Ion Ratio Lower Upper  
112 100  
64 58.5 46.0 69.0  
63 29.2 23.4 35.0



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: 145.03 ng

RT: 5.51 min Scan# 616

Delta R.T. -0.00 min

Lab File: BF094096.D

Acq: 31 Mar 2017 15:16

Instrument :

BNA\_F

ClientSampleId :

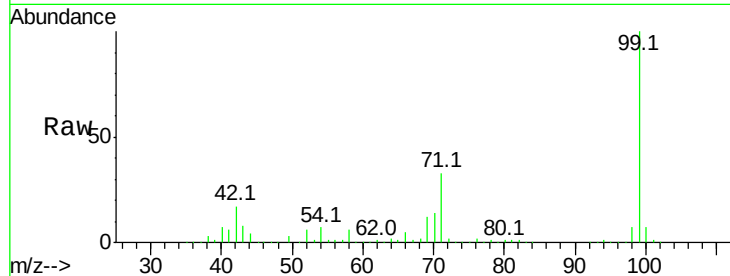
Tot Ion: 99 Resp: 1775333

Ion Ratio Lower Upper

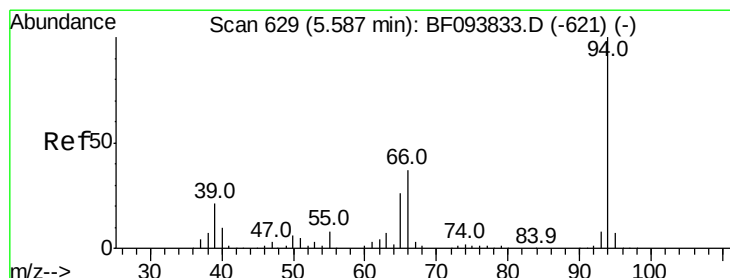
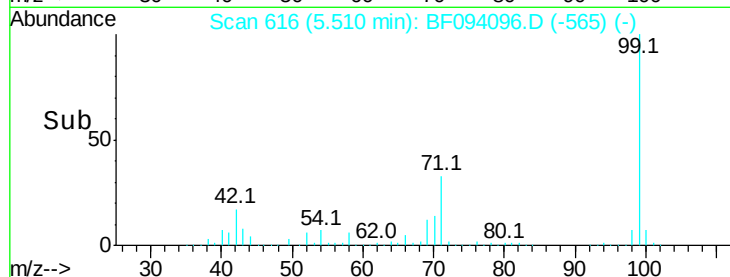
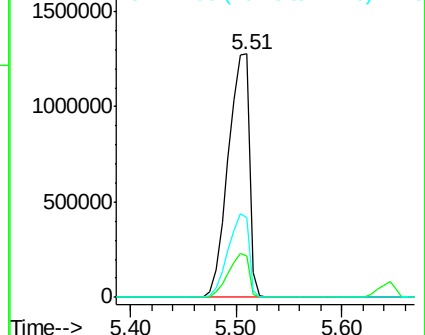
99 100

42 16.7 13.5 20.3

71 32.9 24.5 36.7



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: 2.80 ng

RT: 5.52 min Scan# 617

Delta R.T. -0.01 min

Lab File: BF094096.D

Acq: 31 Mar 2017 15:16

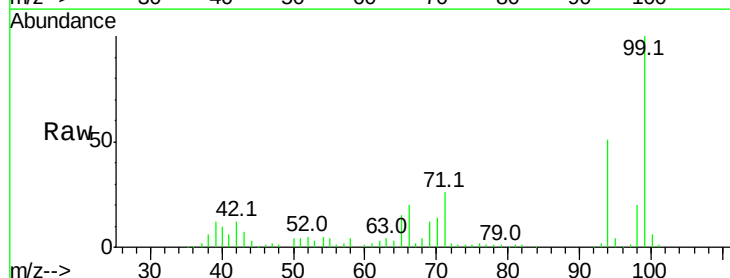
Tgt Ion: 94 Resp: 38990

Ion Ratio Lower Upper

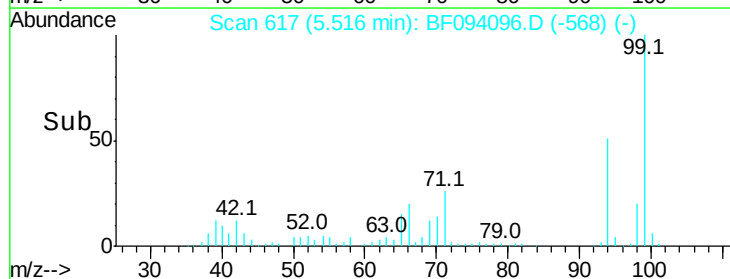
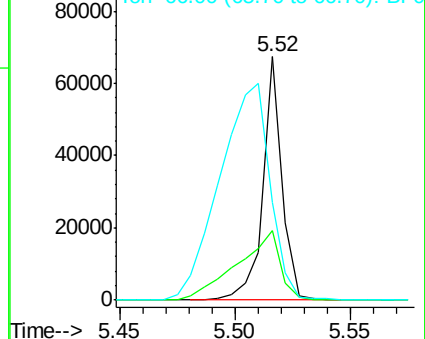
94 100

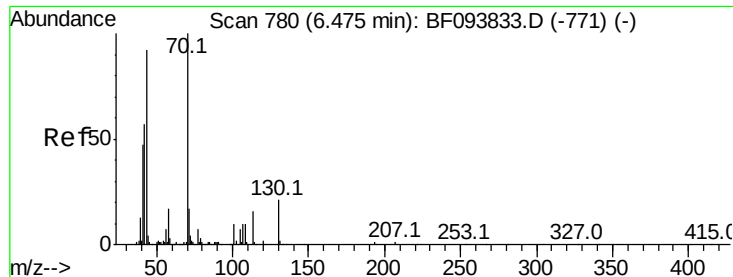
65 28.4 9.9 49.9

66 39.9 23.1 63.1



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





#19

n-Nitroso-di-n-propylamine

Concen: 18.87 ng

RT: 6.55 min Scan# 792

Delta R.T. 0.15 min

Lab File: BF094096.D

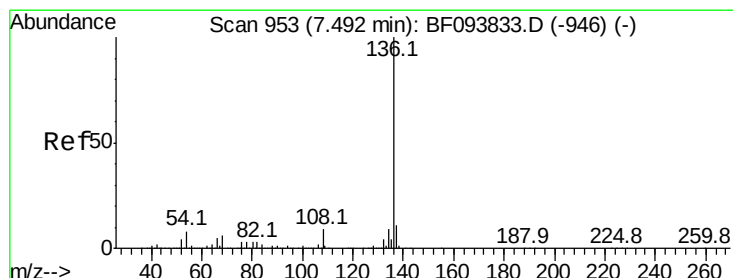
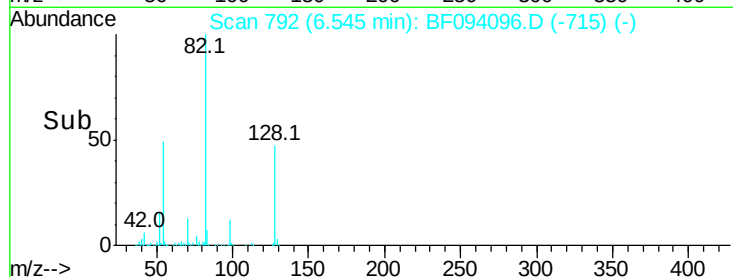
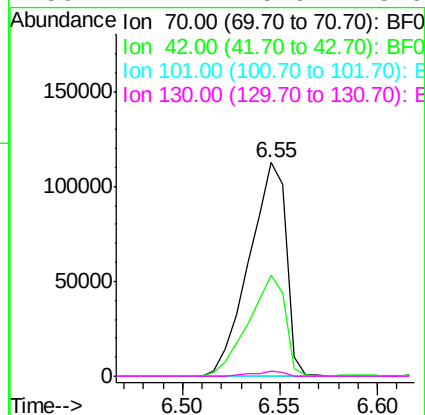
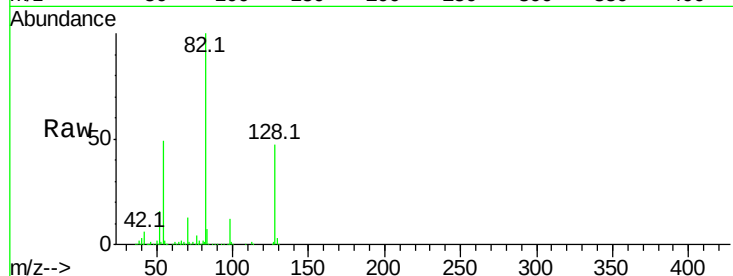
Acq: 31 Mar 2017 15:16

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 70    | Resp: | 148458 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 47.6  | 47.2  | 70.8   |
| 101      | 0.0   | 7.2   | 10.8#  |
| 130      | 2.2   | 15.9  | 23.9#  |



#21

Naphthalene-d8

Concen: 20.00 ng

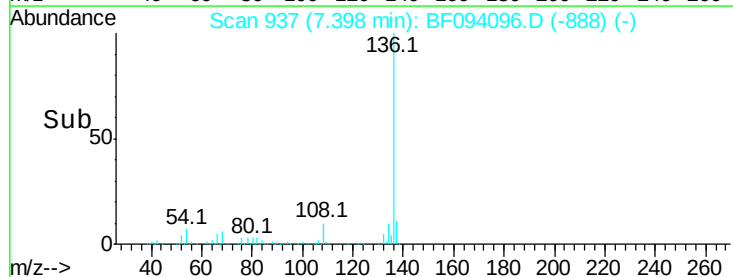
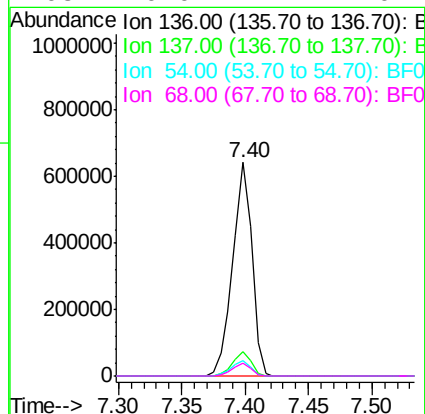
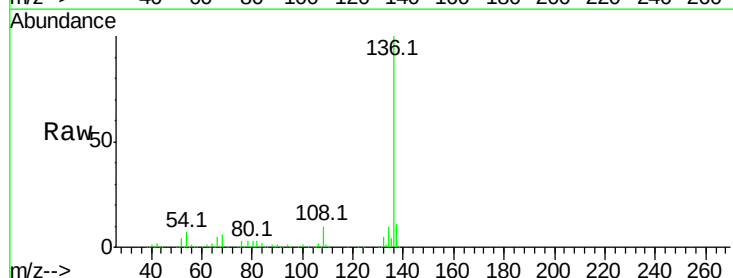
RT: 7.40 min Scan# 937

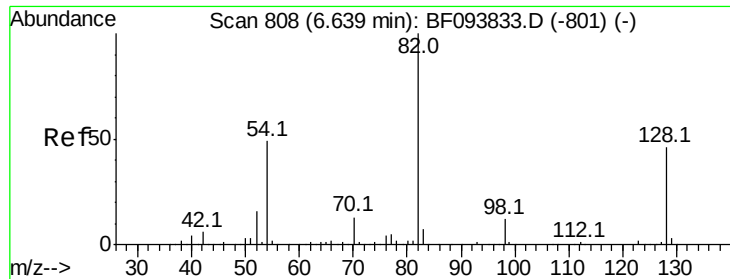
Delta R.T. -0.01 min

Lab File: BF094096.D

Acq: 31 Mar 2017 15:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 671784 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.5   | 12.7   |
| 54       | 7.3   | 4.9   | 7.3    |
| 68       | 6.0   | 4.1   | 6.1    |

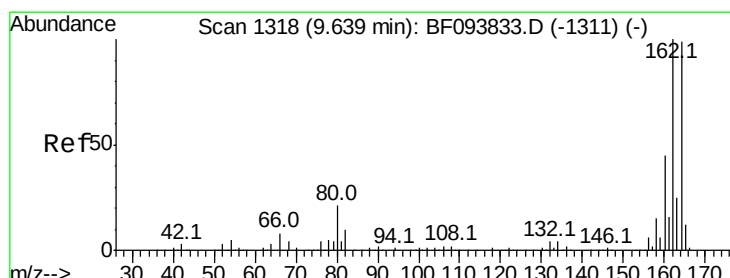
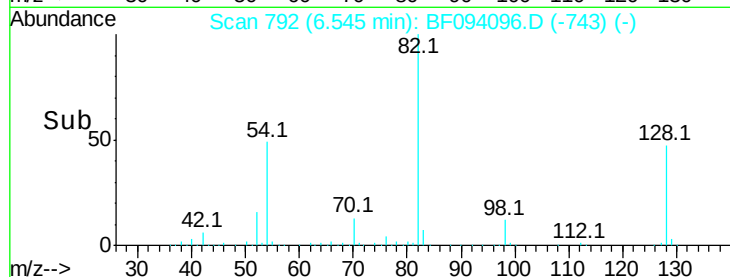
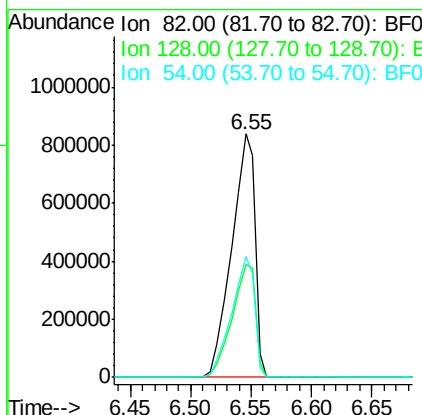
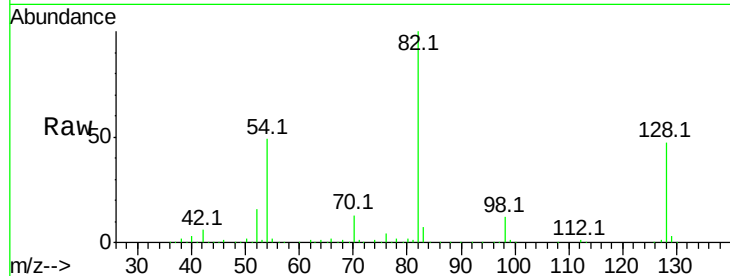




#23  
 Nitrobenzene-d5  
 Concen: 95.31 ng  
 RT: 6.55 min Scan# 792  
 Delta R.T. -0.01 min  
 Lab File: BF094096.D  
 Acq: 31 Mar 2017 15:16

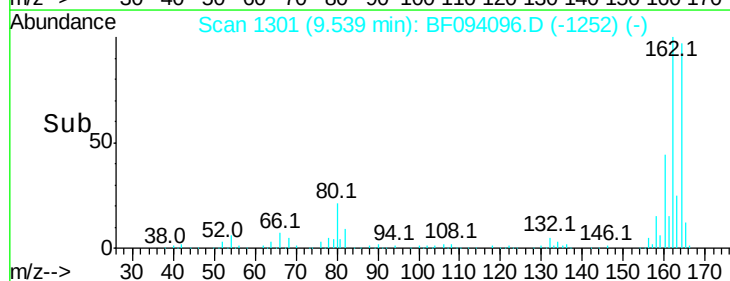
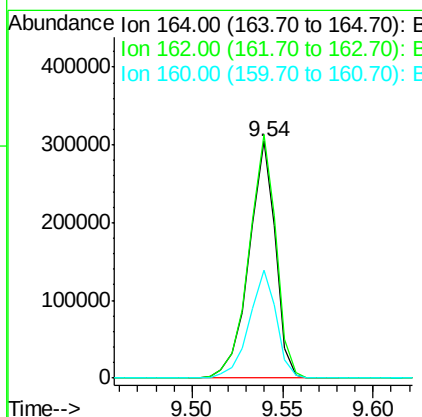
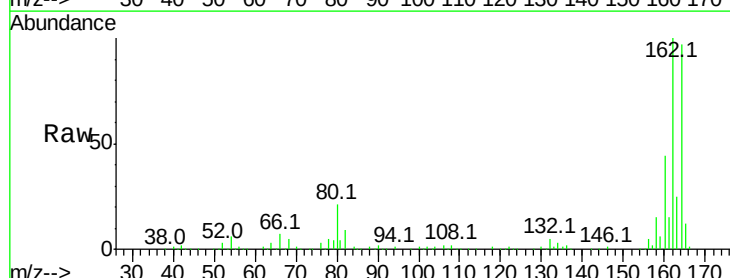
Instrument :  
 BNA\_F  
 ClientSampled :

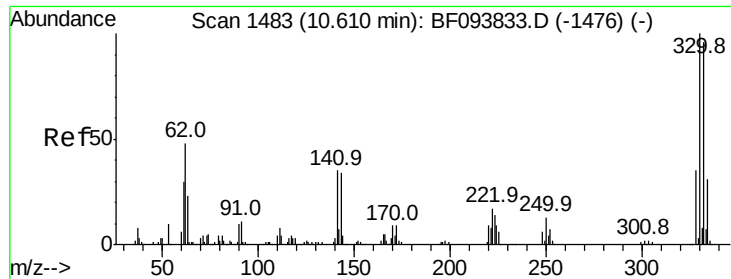
Tot Ion: 82 Resp: 1121911  
 Ion Ratio Lower Upper  
 82 100  
 128 46.7 34.0 51.0  
 54 49.5 42.2 63.2



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.54 min Scan# 1301  
 Delta R.T. -0.01 min  
 Lab File: BF094096.D  
 Acq: 31 Mar 2017 15:16

Tgt Ion:164 Resp: 307408  
 Ion Ratio Lower Upper  
 164 100  
 162 102.8 82.6 123.8  
 160 45.5 36.2 54.2

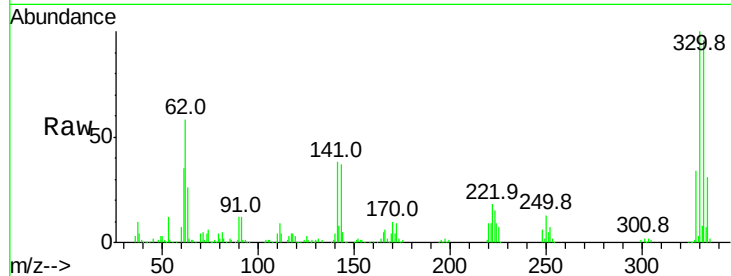




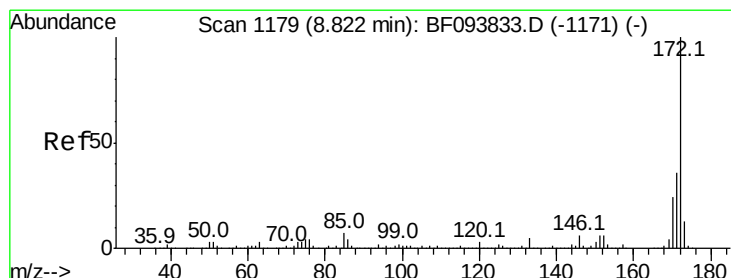
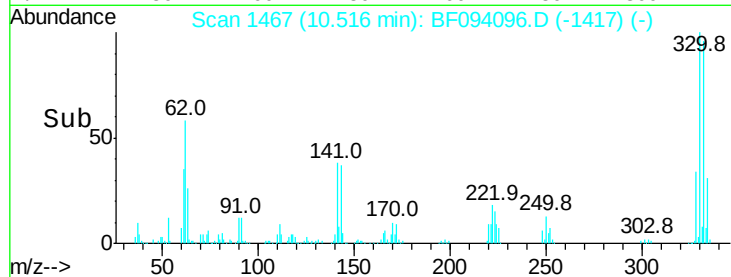
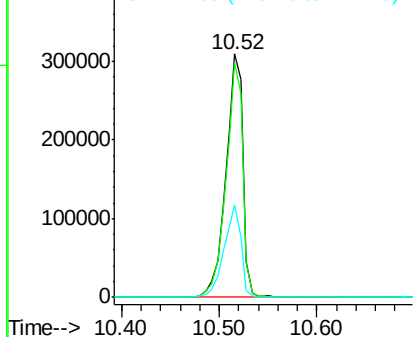
#41  
 2,4,6-Tribromophenol  
 Concen: 152.78 ng  
 RT: 10.52 min Scan# 1467  
 Delta R.T. -0.01 min  
 Lab File: BF094096.D  
 Acq: 31 Mar 2017 15:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 371137  
 Ion Ratio Lower Upper  
 330 100  
 332 94.9 76.6 115.0  
 141 37.8 31.4 47.2

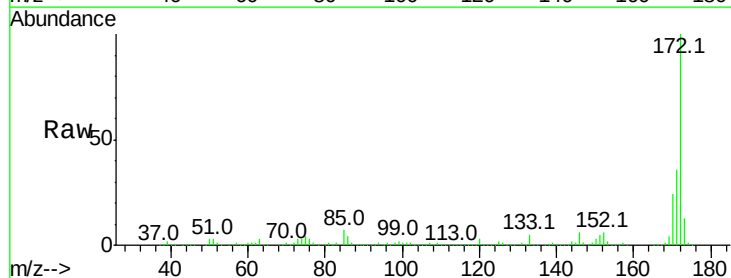


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

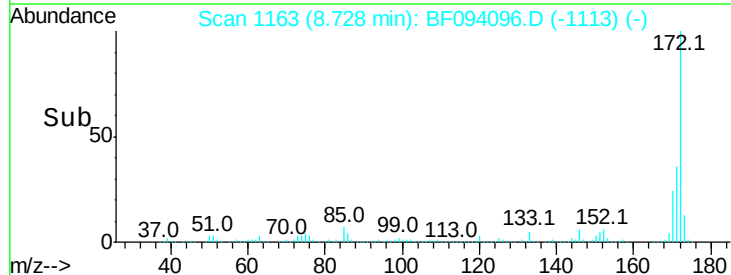
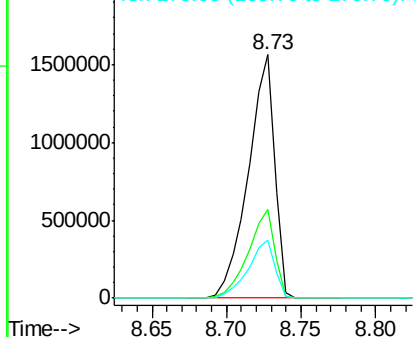


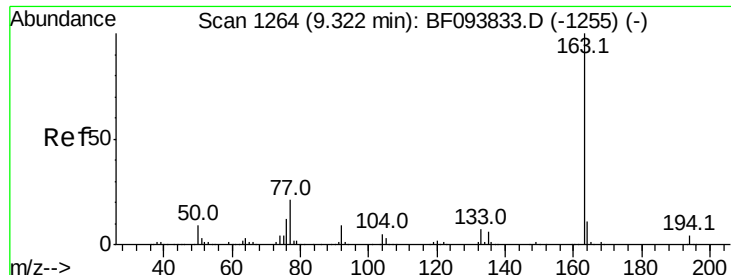
#44  
 2-Fluorobiphenyl  
 Concen: 94.49 ng  
 RT: 8.73 min Scan# 1163  
 Delta R.T. -0.01 min  
 Lab File: BF094096.D  
 Acq: 31 Mar 2017 15:16

Tgt Ion:172 Resp: 1904391  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.6 44.4  
 170 23.9 19.8 29.8



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

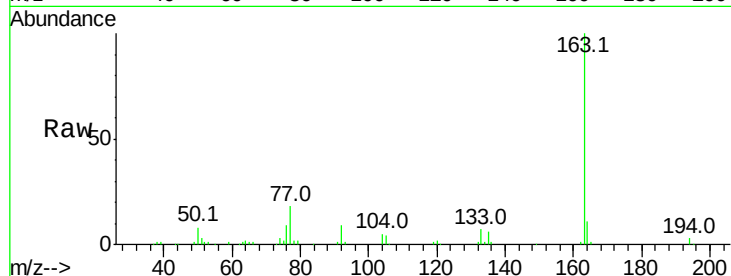




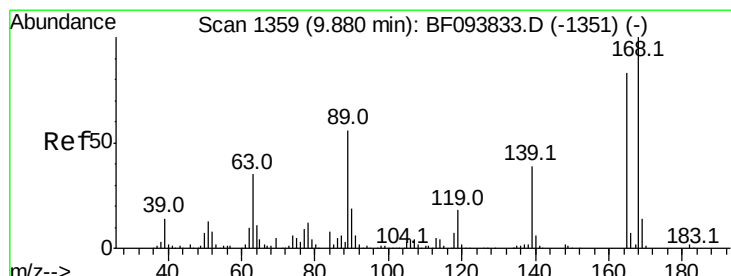
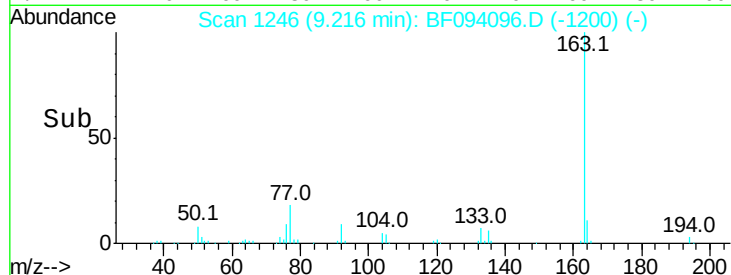
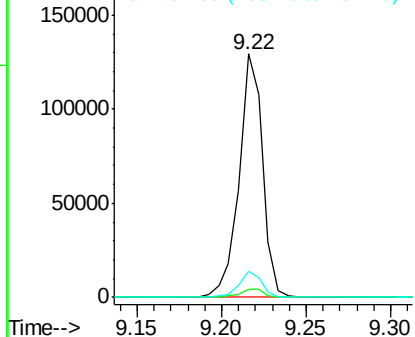
#49  
Dimethylphthalate  
Concen: 5.73 ng  
RT: 9.22 min Scan# 1246  
Delta R.T. -0.03 min  
Lab File: BF094096.D  
Acq: 31 Mar 2017 15:16

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.4   | 2.6   | 4.0   |
| 164     | 10.6  | 8.4   | 12.6  |



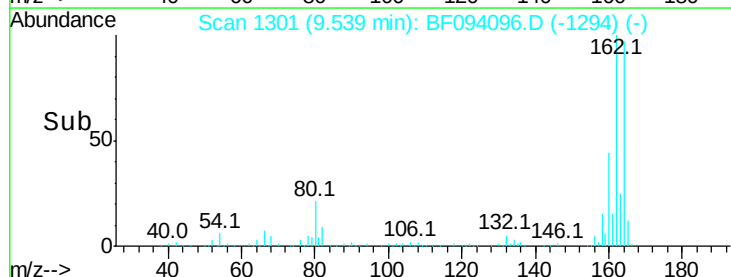
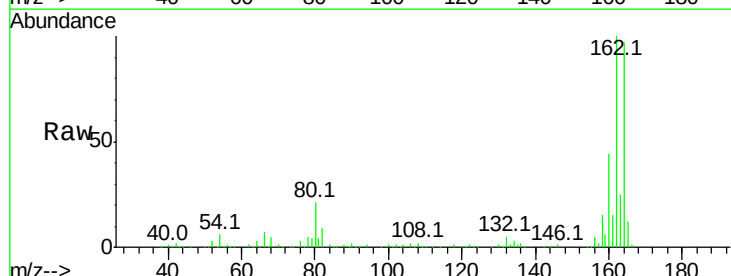
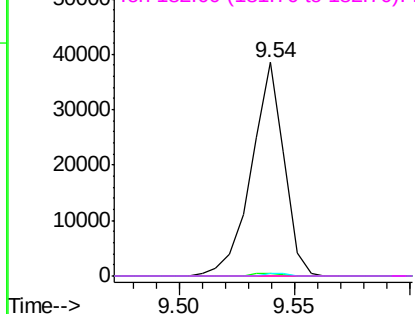
Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



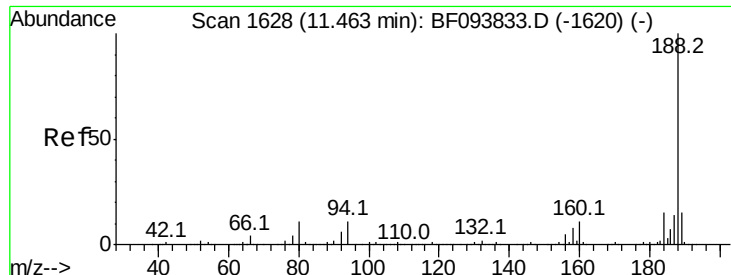
#56  
2,4-Dinitrotoluene  
Concen: 6.00 ng  
RT: 9.54 min Scan# 1301  
Delta R.T. -0.26 min  
Lab File: BF094096.D  
Acq: 31 Mar 2017 15:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 25.4  | 38.0# |
| 89      | 1.2   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

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: 11.36 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF094096.D

Acq: 31 Mar 2017 15:16

Instrument :

BNA\_F

ClientSampleId :

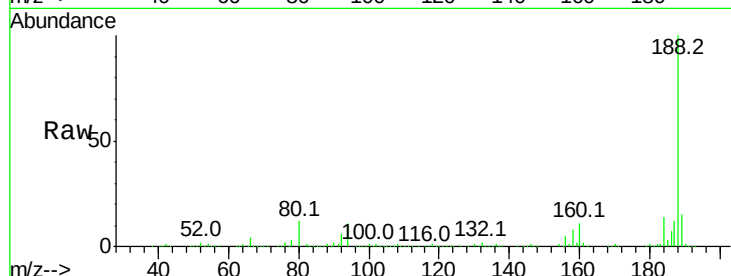
Tot Ion:188 Resp: 537384

Ion Ratio Lower Upper

188 100

94 10.9 9.4 14.2

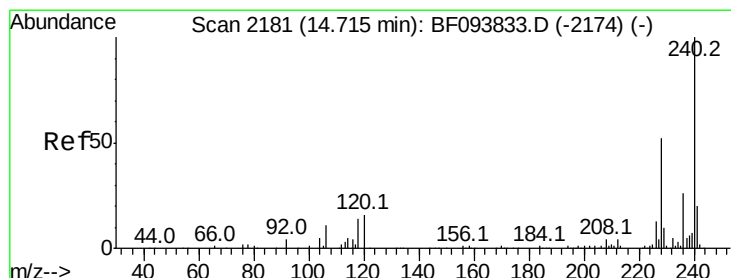
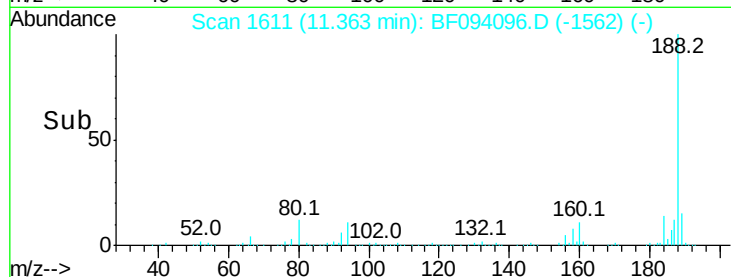
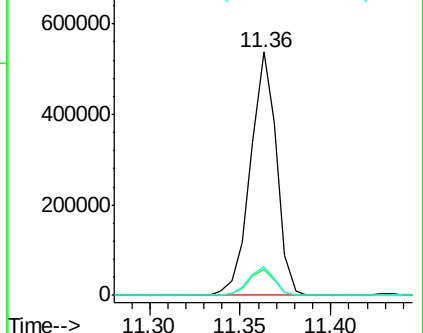
80 11.5 10.2 15.2



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094096.D

Acq: 31 Mar 2017 15:16

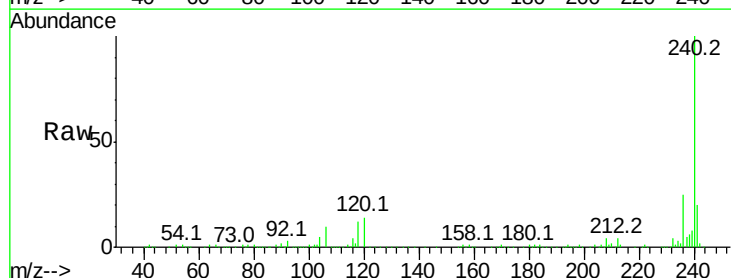
Tgt Ion:240 Resp: 412747

Ion Ratio Lower Upper

240 100

120 14.4 5.8 8.8#

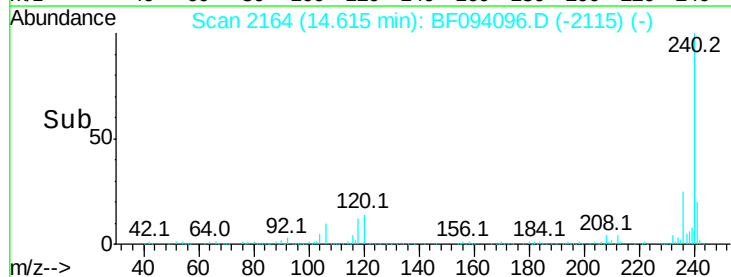
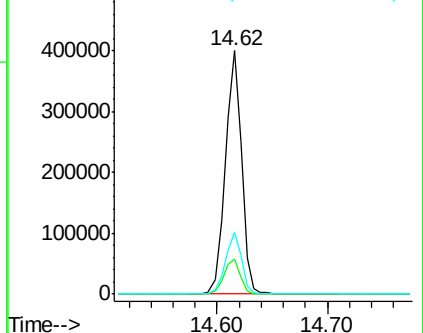
236 25.4 20.5 30.7

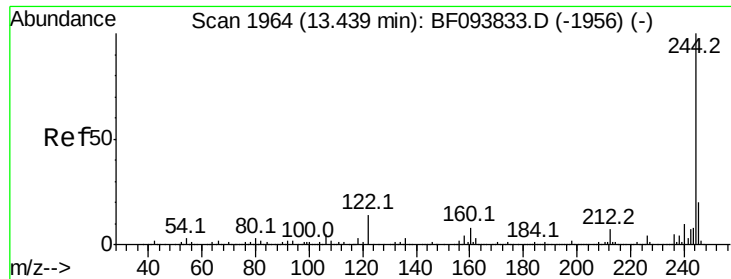


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

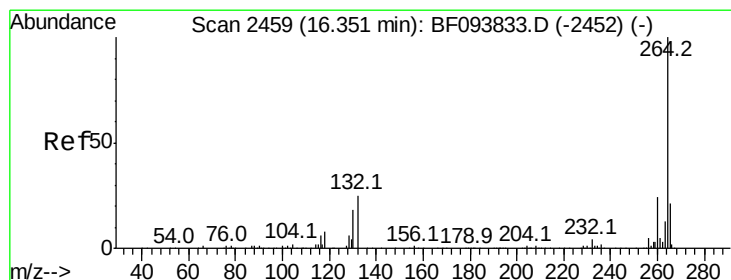
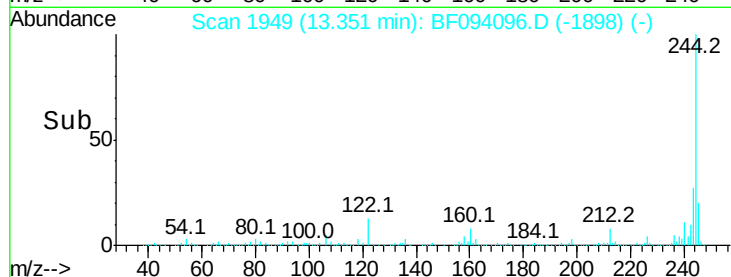
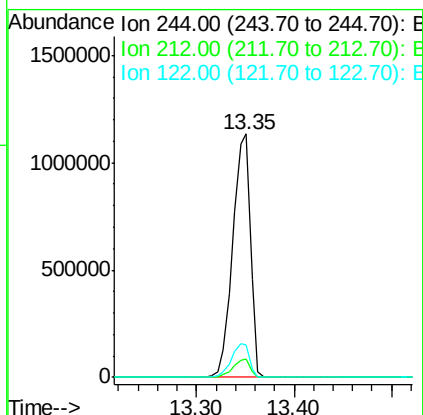
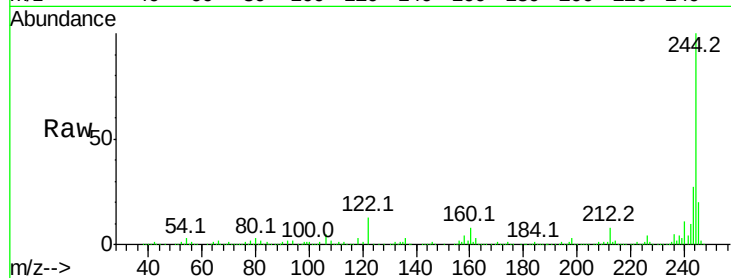




#78  
 Terphenyl-d14  
 Concen: 77.54 ng  
 RT: 13.35 min Scan# 1949  
 Delta R.T. -0.00 min  
 Lab File: BF094096.D  
 Acq: 31 Mar 2017 15:16

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:244 Resp: 1427798  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 6.0 9.0  
 122 13.1 10.3 15.5



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 16.24 min Scan# 2441  
 Delta R.T. -0.01 min  
 Lab File: BF094096.D  
 Acq: 31 Mar 2017 15:16

Tgt Ion:264 Resp: 276845  
 Ion Ratio Lower Upper  
 264 100  
 260 22.3 19.5 29.3  
 265 21.9 17.2 25.8

