

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031819\  
 Data File : BF113094.D  
 Acq On : 18 Mar 2019 17:00  
 Operator : JU/SJ  
 Sample : K1901-03 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-3(0.5-1.5)

Quant Time: Mar 19 04:50:21 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 13 03:42:55 2019  
 Response via : Initial Calibration

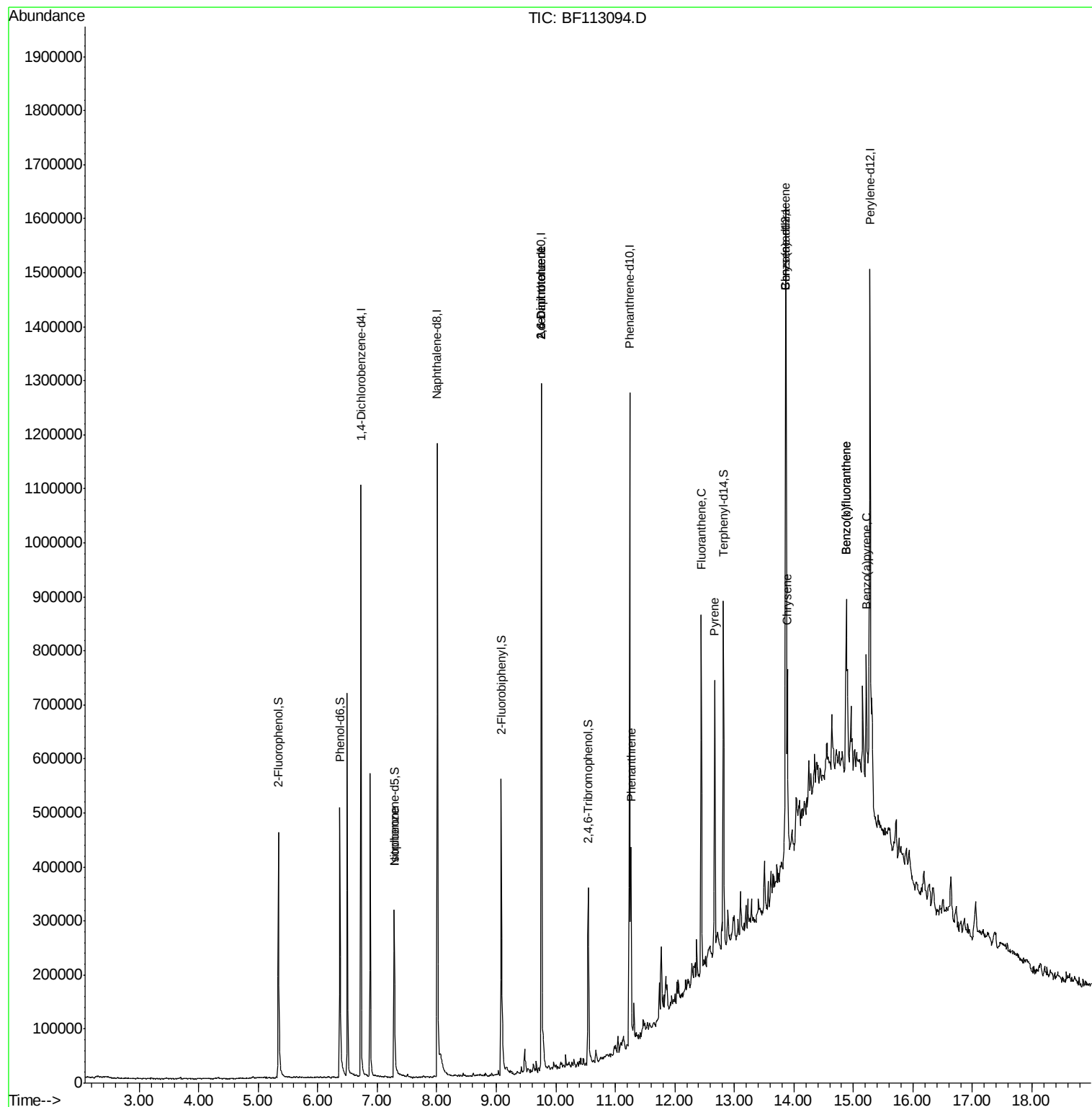
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.73  | 152  | 165566   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.01  | 136  | 554178   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.76  | 164  | 286492   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.24 | 188  | 504880   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.87 | 240  | 431816   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.28 | 264  | 474466   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.34  | 112  | 159470   | 14.98  | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 220175   | 16.47  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 122490   | 13.23  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 52090    | 17.13  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.08  | 172  | 264669   | 11.30  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.82 | 244  | 220718   | 9.91   | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 25) Isophorone              | 7.29  | 82   | 122488   | 6.139  | ng    | # 66     |
| 51) 2,6-Dinitrotoluene      | 9.76  | 165  | 36490    | 8.295  | ng    | # 18     |
| 57) 2,4-Dinitrotoluene      | 9.76  | 165  | 36889    | 6.746  | ng    | # 18     |
| 71) Phenanthrene            | 11.26 | 178  | 141545   | 5.635  | ng    | 98       |
| 75) Fluoranthene            | 12.44 | 202  | 269313   | 10.007 | ng    | 95       |
| 78) Pyrene                  | 12.67 | 202  | 241441   | 6.632  | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.86 | 228  | 133270   | 4.453  | ng    | 99       |
| 83) Chrysene                | 13.89 | 228  | 141079   | 4.812  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 14.88 | 252  | 231547   | 7.545  | ng    | 97       |
| 89) Benzo(k)fluoranthene    | 14.88 | 252  | 231547   | 8.329  | ng    | 96       |
| 90) Benzo(a)pyrene          | 15.22 | 252  | 114813   | 4.230  | ng    | 98       |

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

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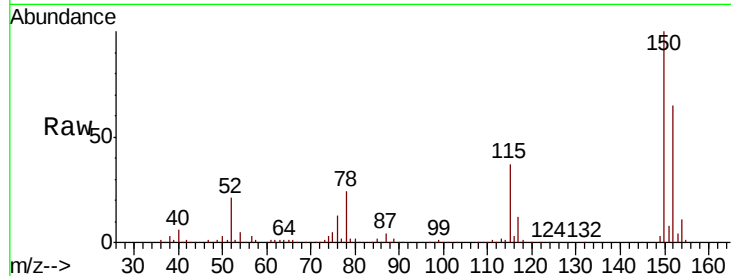


#1

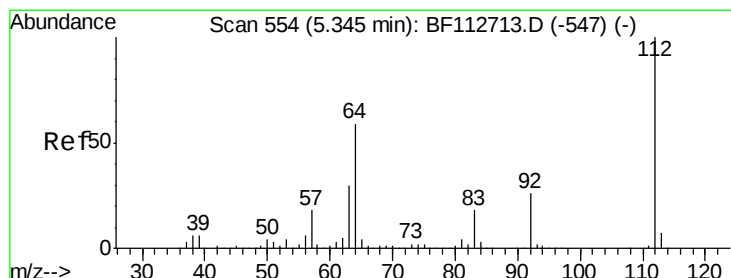
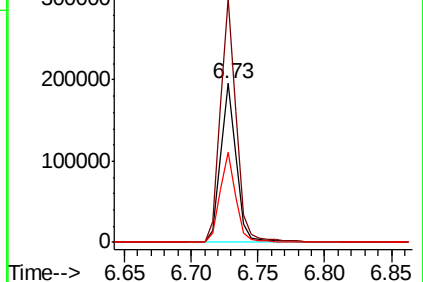
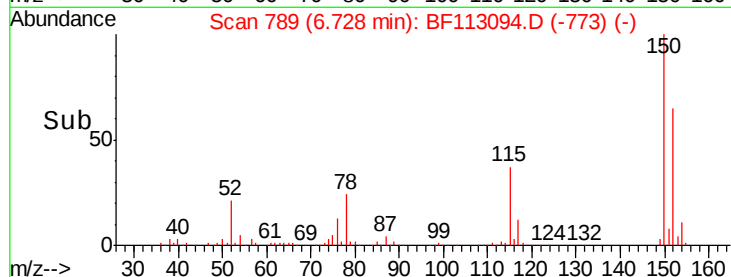
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. -0.01 min  
Lab File: BF113094.D  
Acq: 18 Mar 2019 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3(0.5-1.5)

Tgt Ion:152 Resp: 165566  
Ion Ratio Lower Upper  
152 100  
150 153.1 124.2 186.2  
115 56.3 48.2 72.4



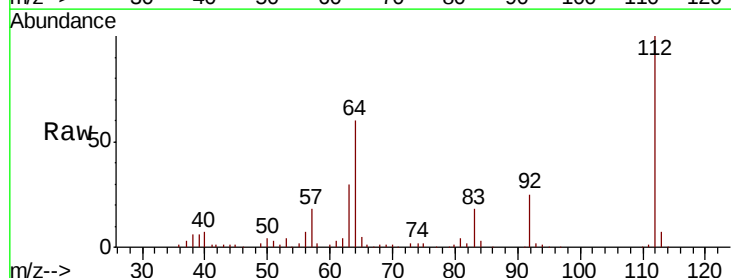
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



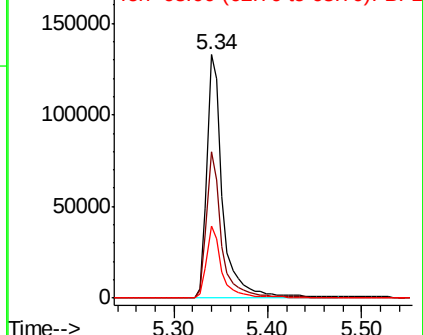
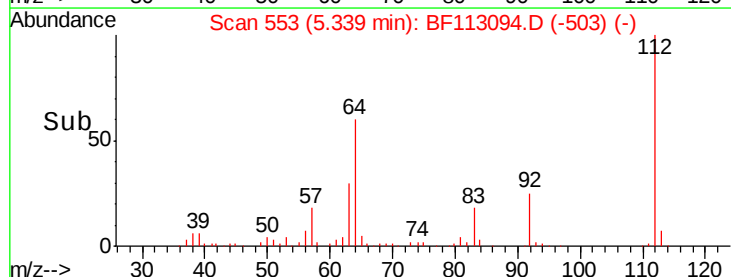
#5

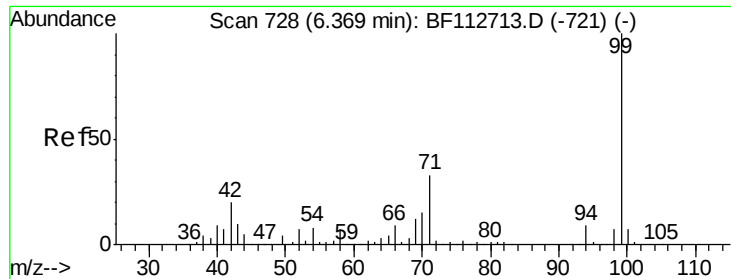
2-Fluorophenol  
Concen: 14.983 ng  
RT: 5.34 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF113094.D  
Acq: 18 Mar 2019 17:00

Tgt Ion:112 Resp: 159470  
Ion Ratio Lower Upper  
112 100  
64 60.0 47.6 71.4  
63 29.6 24.4 36.6



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 16.468 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113094.D

Acq: 18 Mar 2019 17:00

Instrument :

BNA\_F

ClientSampleId :

SB-3(0.5-1.5)

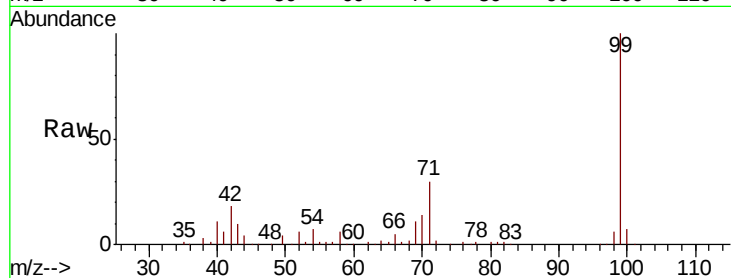
Tgt Ion: 99 Resp: 220175

Ion Ratio Lower Upper

99 100

42 18.0 16.3 24.5

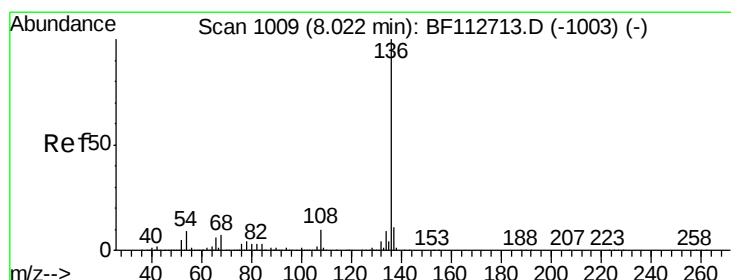
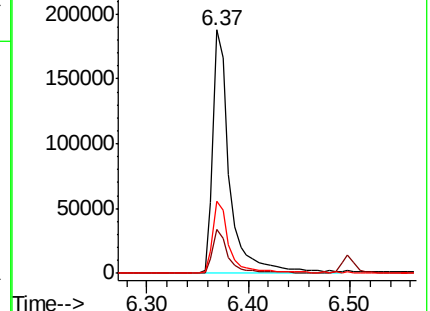
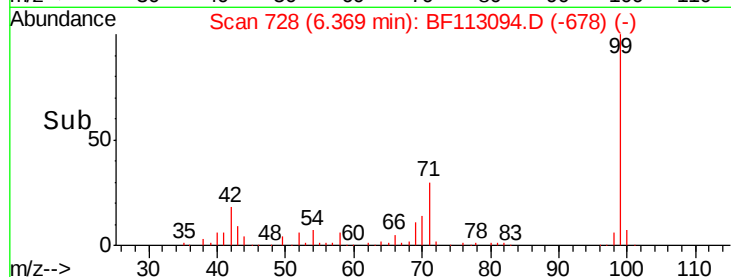
71 29.9 26.2 39.4



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF113094.D

Acq: 18 Mar 2019 17:00

Tgt Ion: 136 Resp: 554178

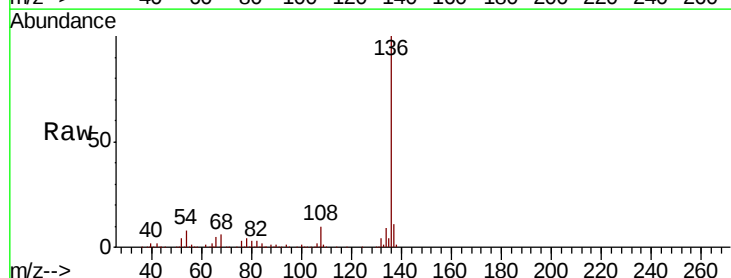
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.9 7.3 10.9

68 5.8 5.4 8.2

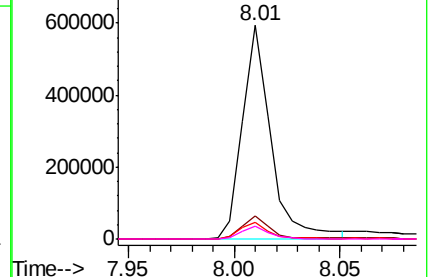
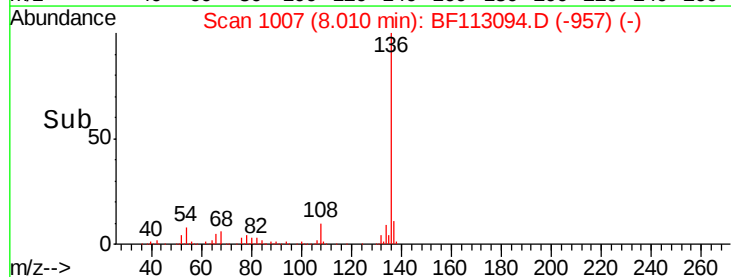


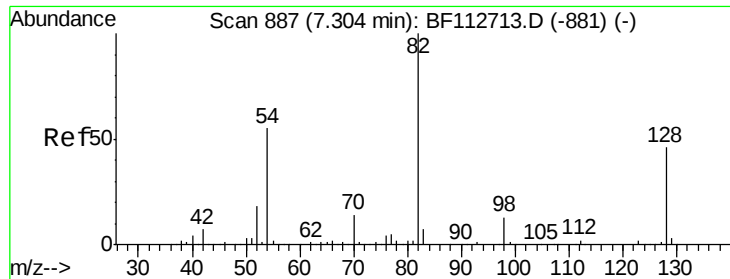
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

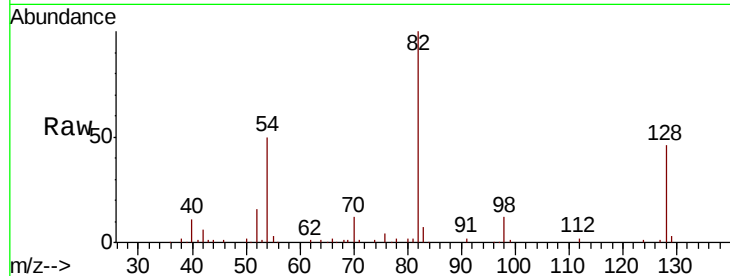




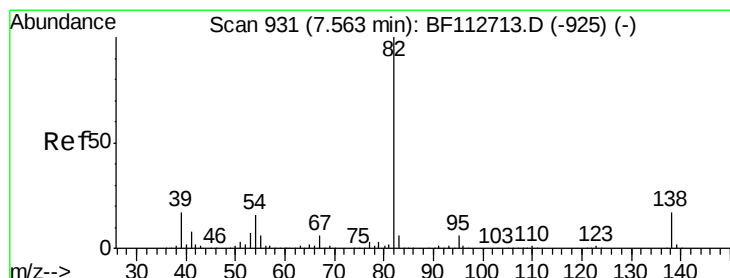
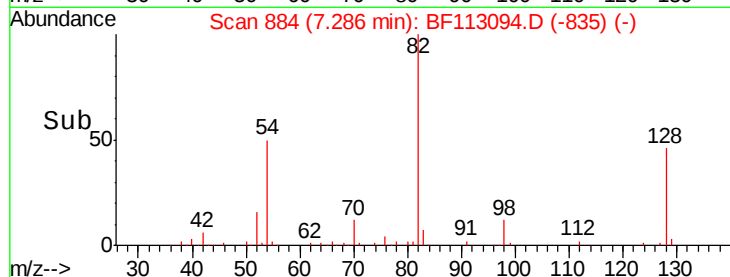
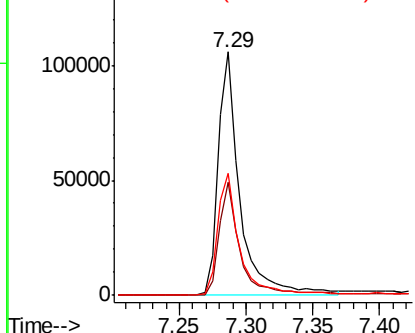
#23  
 Nitrobenzene-d5  
 Concen: 13.226 ng  
 RT: 7.29 min Scan# 884  
 Delta R.T. -0.01 min  
 Lab File: BF113094.D  
 Acq: 18 Mar 2019 17:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-3(0.5-1.5)

Tgt Ion: 82 Resp: 122490  
 Ion Ratio Lower Upper  
 82 100  
 128 46.4 36.3 54.5  
 54 49.9 43.7 65.5

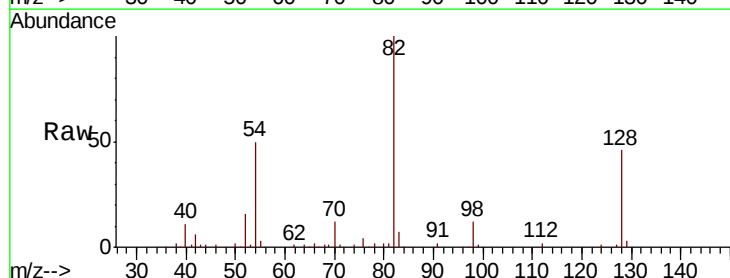


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

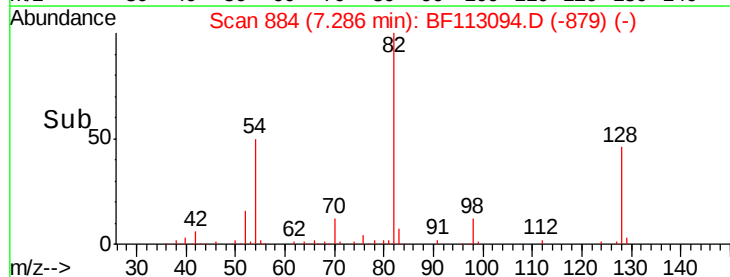
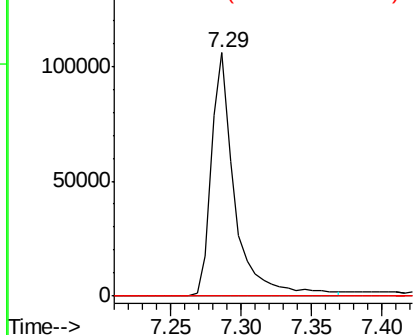


#25  
 Isophorone  
 Concen: 6.139 ng  
 RT: 7.29 min Scan# 884  
 Delta R.T. -0.27 min  
 Lab File: BF113094.D  
 Acq: 18 Mar 2019 17:00

Tgt Ion: 82 Resp: 122488  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.2 7.8#  
 138 0.0 13.8 20.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 138.00 (137.70 to 138.70): BF1

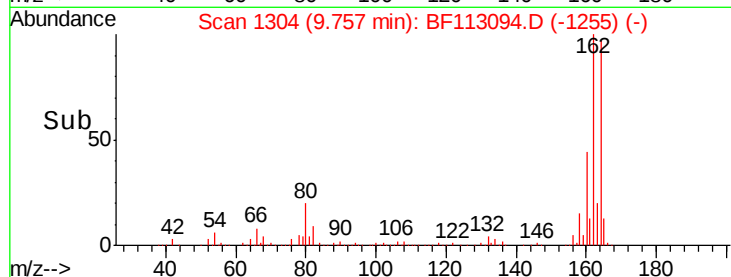
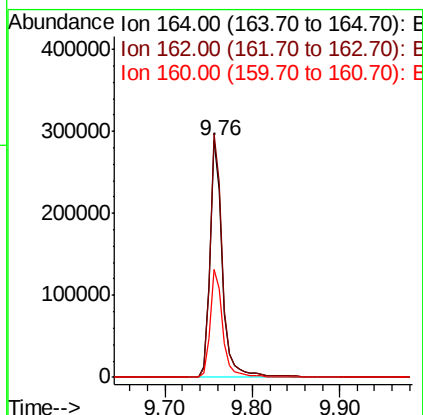
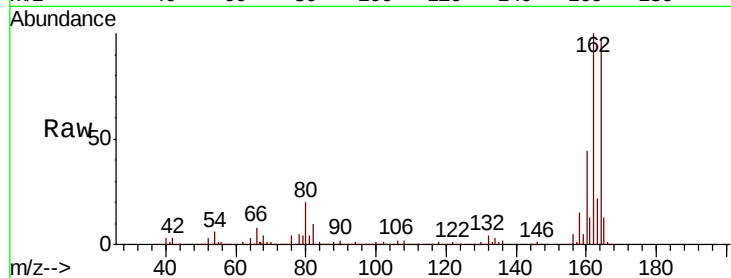




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. -0.01 min  
 Lab File: BF113094.D  
 Acq: 18 Mar 2019 17:00

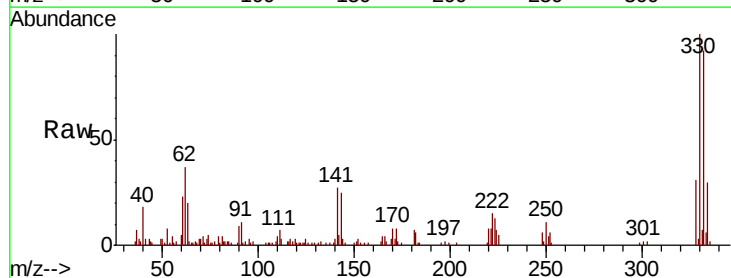
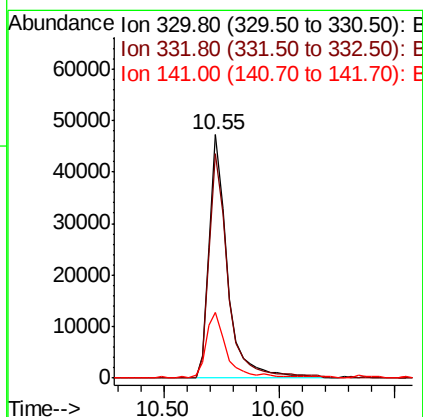
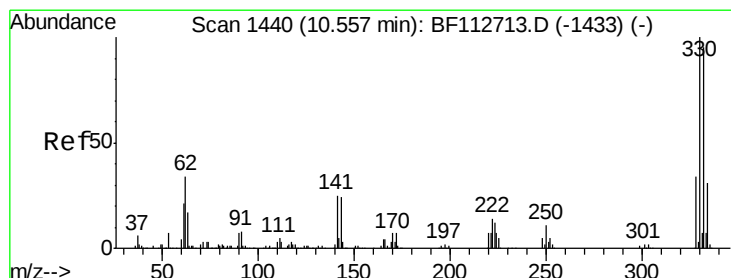
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-3(0.5-1.5)

Tgt Ion:164 Resp: 286492  
 Ion Ratio Lower Upper  
 164 100  
 162 102.7 80.6 120.8  
 160 45.4 36.0 54.0



#42  
 2,4,6-Tribromophenol  
 Concen: 17.127 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF113094.D  
 Acq: 18 Mar 2019 17:00

Tgt Ion:330 Resp: 52090  
 Ion Ratio Lower Upper  
 330 100  
 332 95.0 76.2 114.4  
 141 31.1 27.0 40.6

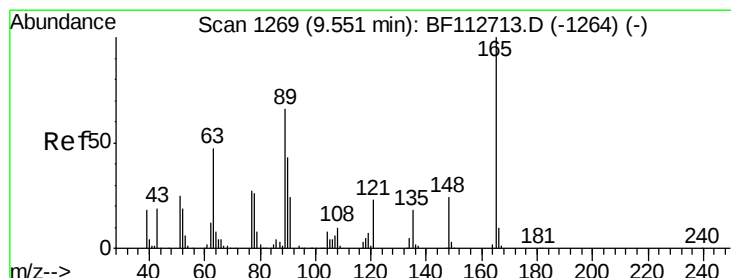
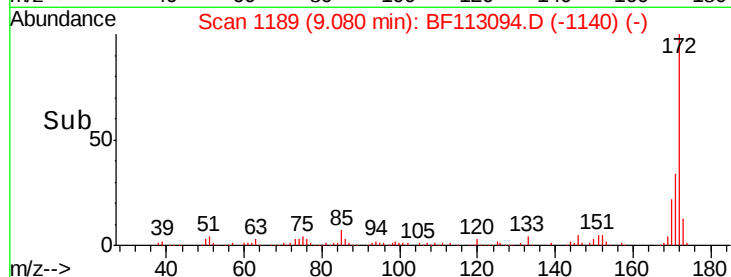
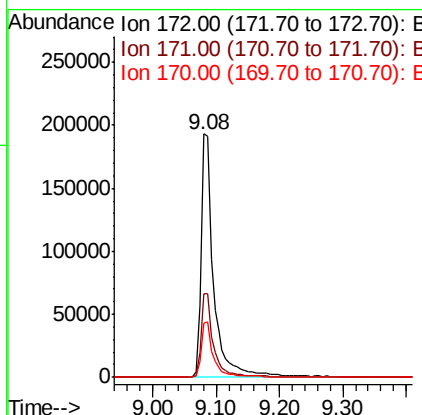
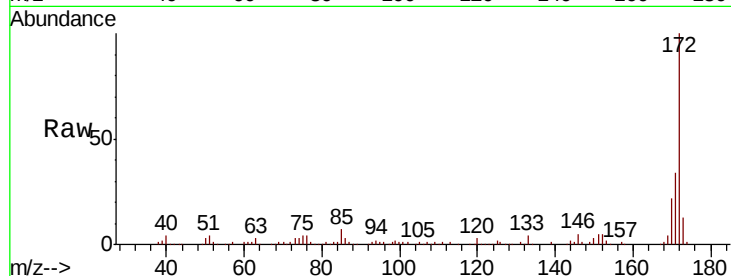




#45  
 2-Fluorobiphenyl  
 Concen: 11.301 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF113094.D  
 Acq: 18 Mar 2019 17:00

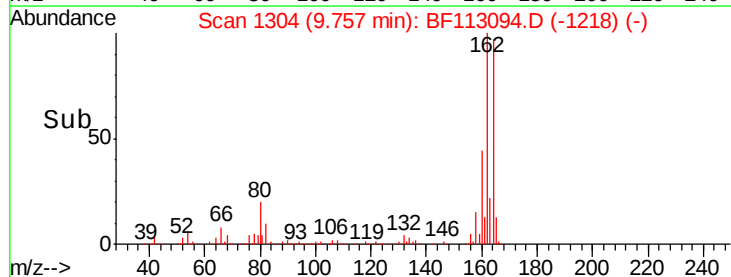
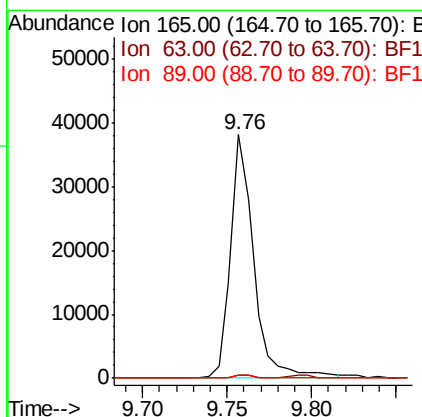
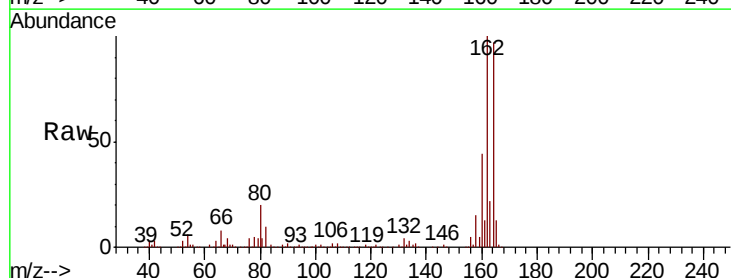
Instrument :  
 BNA\_F  
 ClientSampleId :  
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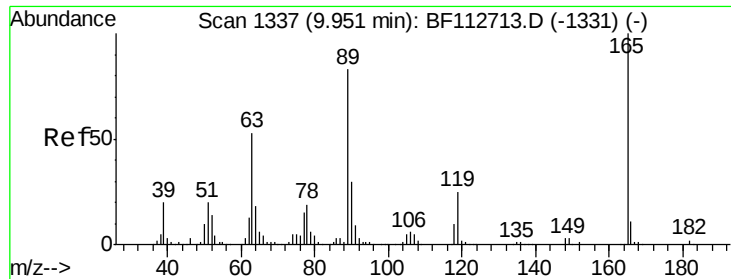
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.2  | 29.0  | 43.4  |
| 170     | 22.5  | 20.0  | 30.0  |



#51  
 2,6-Dinitrotoluene  
 Concen: 8.295 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. 0.21 min  
 Lab File: BF113094.D  
 Acq: 18 Mar 2019 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 54.1  | 81.1# |
| 89      | 1.5   | 52.8  | 79.2# |

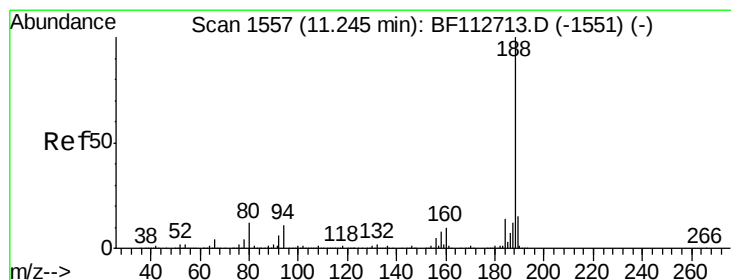
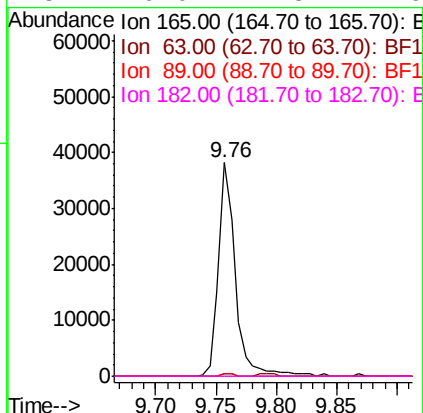
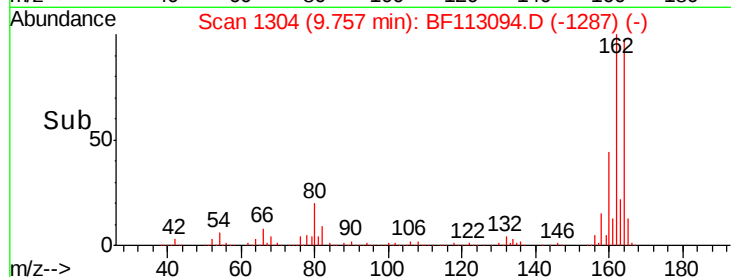
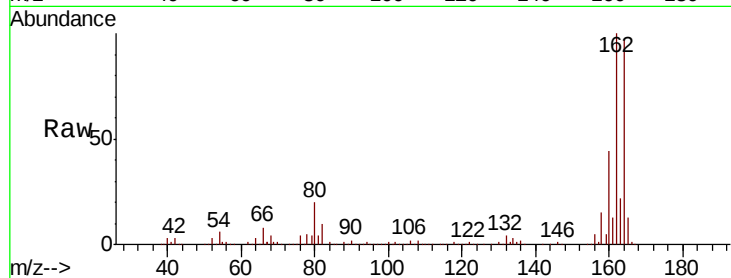




#57  
 2,4-Dinitrotoluene  
 Concen: 6.746 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. -0.20 min  
 Lab File: BF113094.D  
 Acq: 18 Mar 2019 17:00

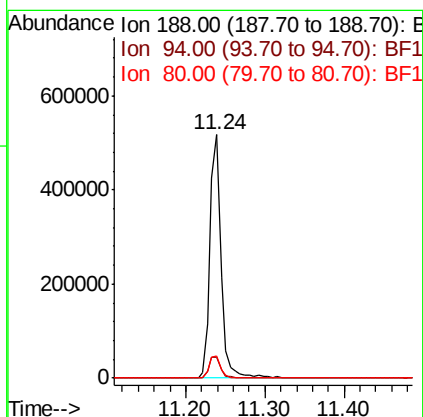
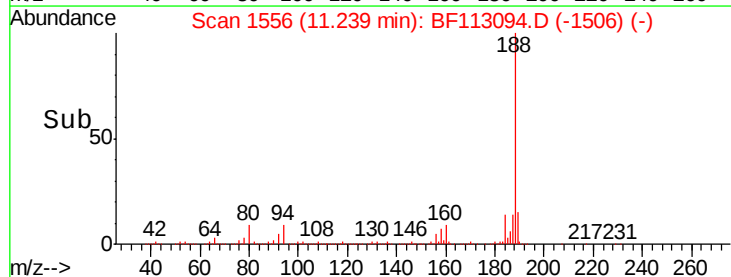
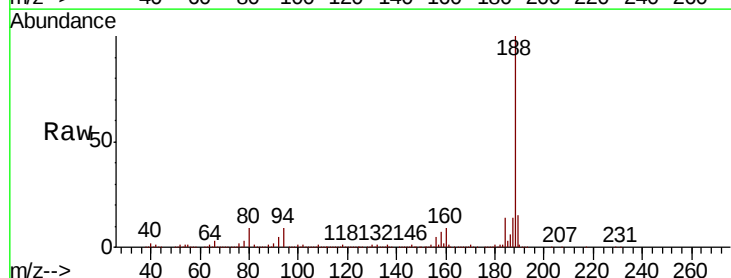
Instrument :  
 BNA\_F  
 ClientSampleId :  
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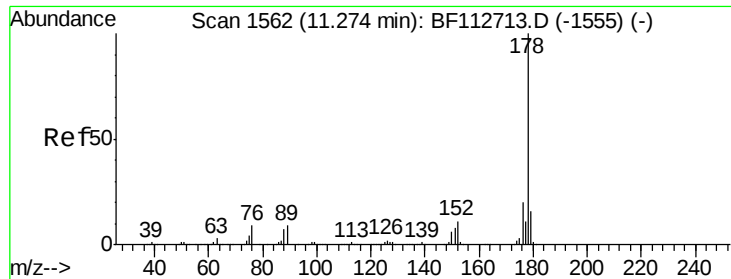
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 42.2  | 63.2# |
| 89      | 1.5   | 66.2  | 99.4# |
| 182     | 0.0   | 1.8   | 2.6#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.24 min Scan# 1556  
 Delta R.T. -0.01 min  
 Lab File: BF113094.D  
 Acq: 18 Mar 2019 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.6   | 9.0   | 13.4# |
| 80      | 8.9   | 9.2   | 13.8# |

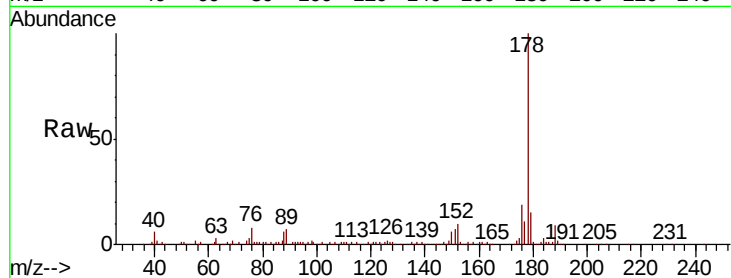




#71  
Phenanthrene  
Concen: 5.635 ng  
RT: 11.26 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF113094.D  
Acq: 18 Mar 2019 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3(0.5-1.5)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 16.3  | 24.5  |
| 179     | 15.1  | 12.7  | 19.1  |

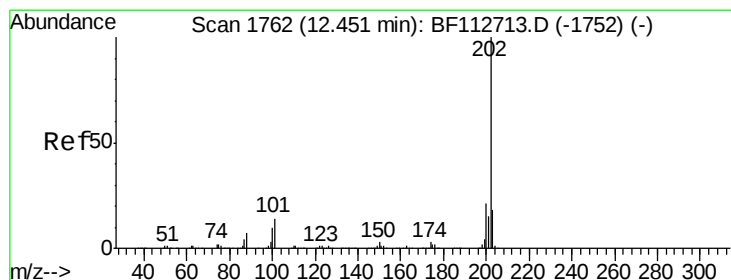
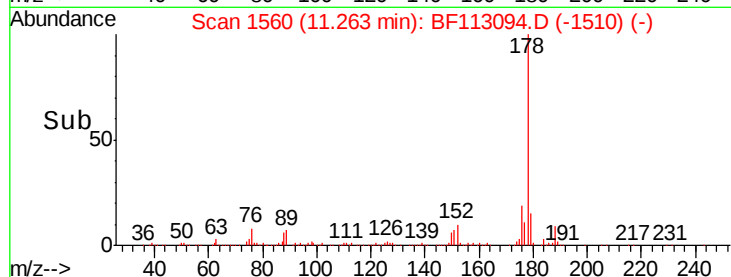
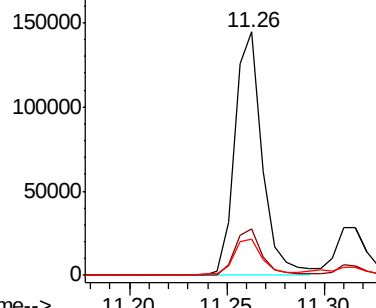


Abundance

Ion 178.00 (177.70 to 178.70): E

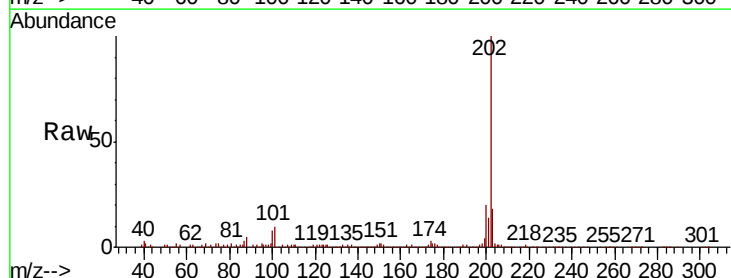
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75  
Fluoranthene  
Concen: 10.007 ng  
RT: 12.44 min Scan# 1761  
Delta R.T. -0.01 min  
Lab File: BF113094.D  
Acq: 18 Mar 2019 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.2  | 0.0   | 33.8  |
| 203     | 17.8  | 0.0   | 38.4  |

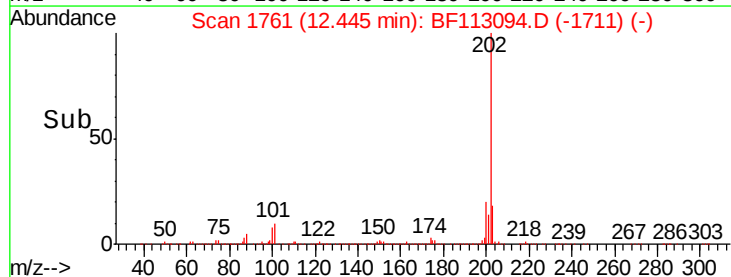
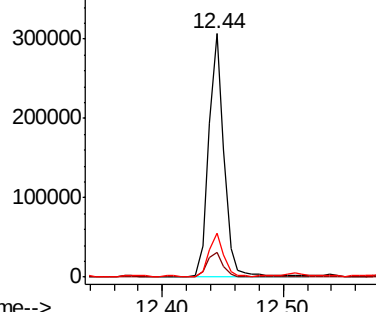


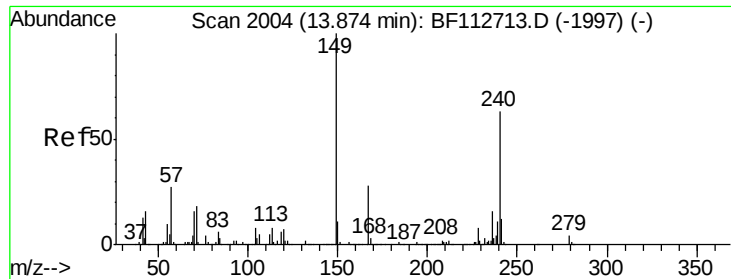
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

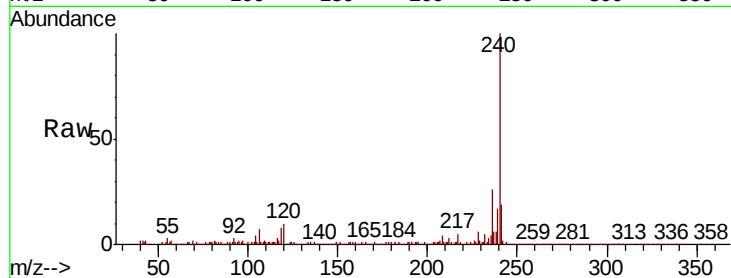




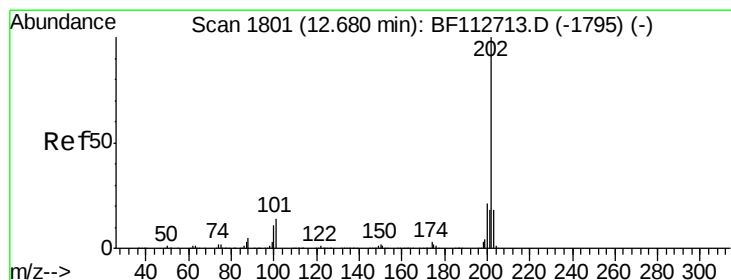
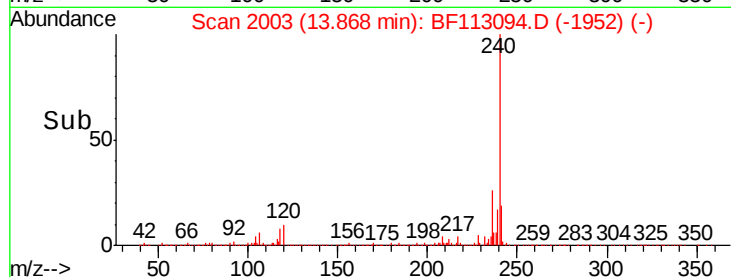
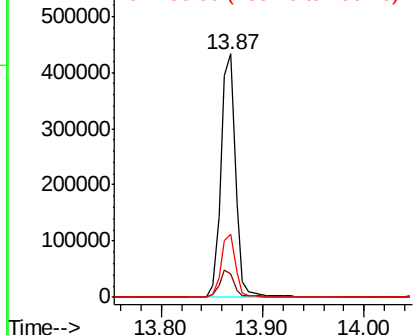
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.87 min Scan# 2003  
Delta R.T. -0.00 min  
Lab File: BF113094.D  
Acq: 18 Mar 2019 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3(0.5-1.5)

Tgt Ion:240 Resp: 431816  
Ion Ratio Lower Upper  
240 100  
120 9.9 8.9 13.3  
236 25.9 20.7 31.1

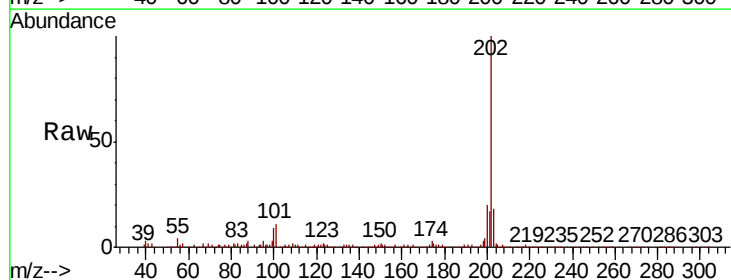


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

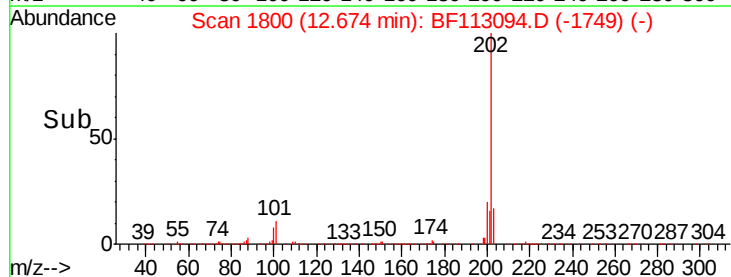
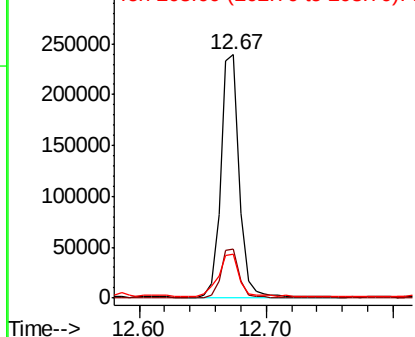


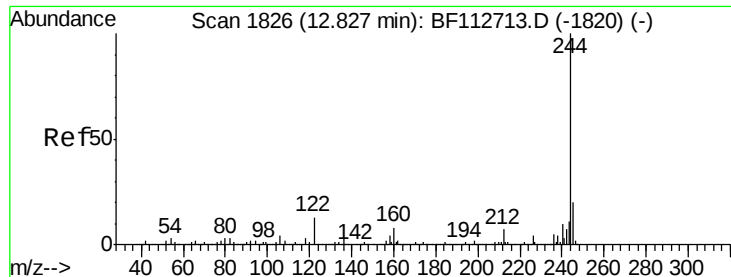
#78  
Pyrene  
Concen: 6.632 ng  
RT: 12.67 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: BF113094.D  
Acq: 18 Mar 2019 17:00

Tgt Ion:202 Resp: 241441  
Ion Ratio Lower Upper  
202 100  
200 20.1 17.0 25.4  
203 17.8 14.4 21.6



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





#79

Terphenyl-d14

Concen: 9.908 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF113094.D

Acq: 18 Mar 2019 17:00

Instrument :

BNA\_F

ClientSampleId :

SB-3(0.5-1.5)

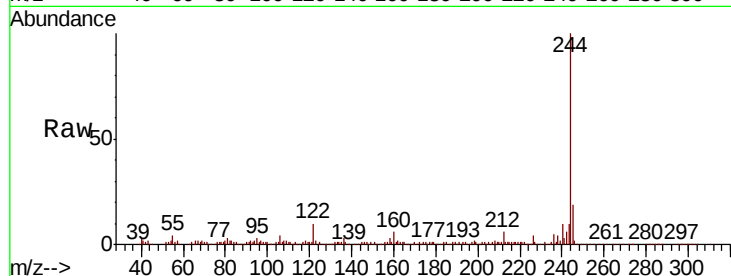
Tgt Ion:244 Resp: 220718

Ion Ratio Lower Upper

244 100

212 6.0 5.6 8.4

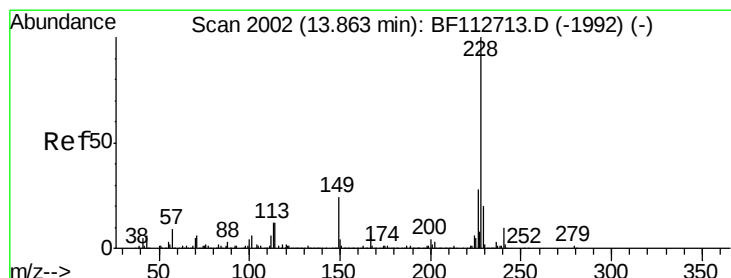
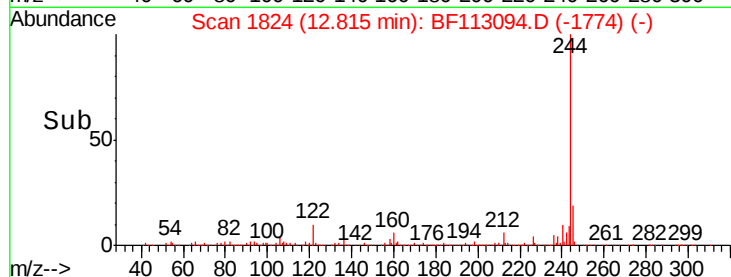
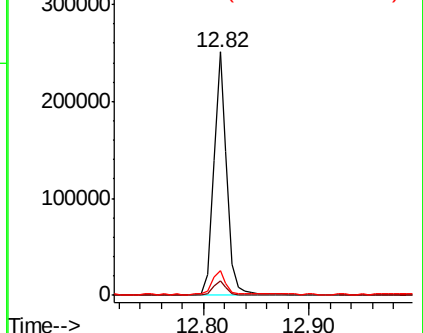
122 10.3 10.5 15.7#



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



#81

Benzo(a)anthracene

Concen: 4.453 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.00 min

Lab File: BF113094.D

Acq: 18 Mar 2019 17:00

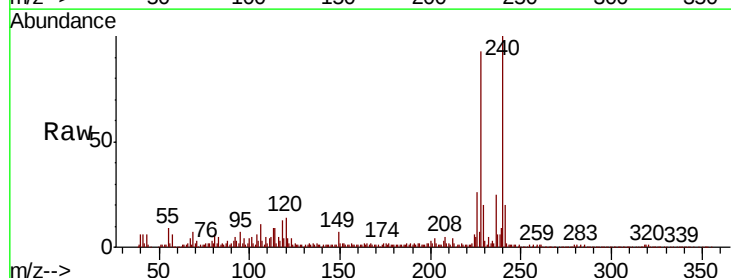
Tgt Ion:228 Resp: 133270

Ion Ratio Lower Upper

228 100

226 27.7 22.2 33.4

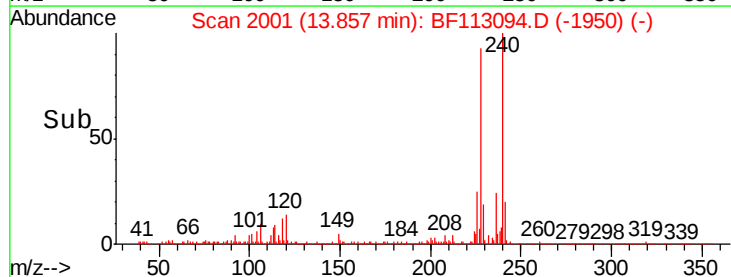
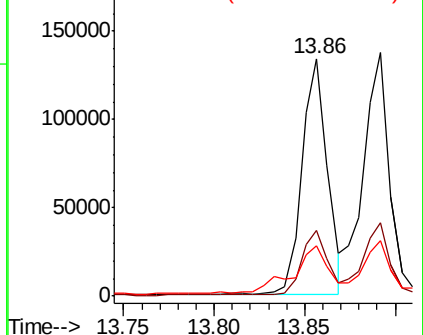
229 21.1 16.0 24.0

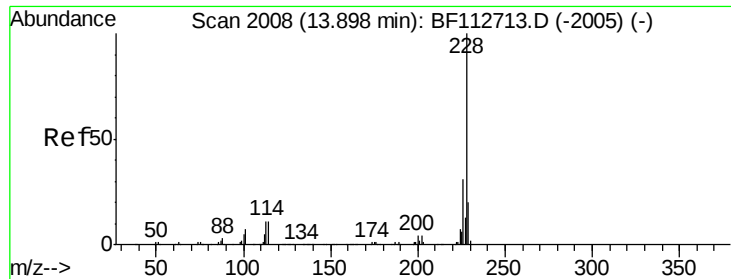


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 4.812 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF113094.D

Acq: 18 Mar 2019 17:00

Instrument :

BNA\_F

ClientSampleId :

SB-3(0.5-1.5)

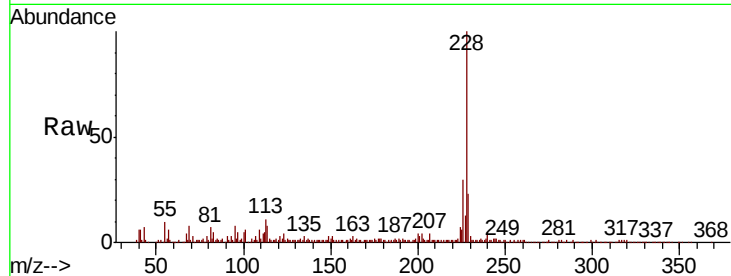
Tgt Ion:228 Resp: 141079

Ion Ratio Lower Upper

228 100

226 30.4 24.9 37.3

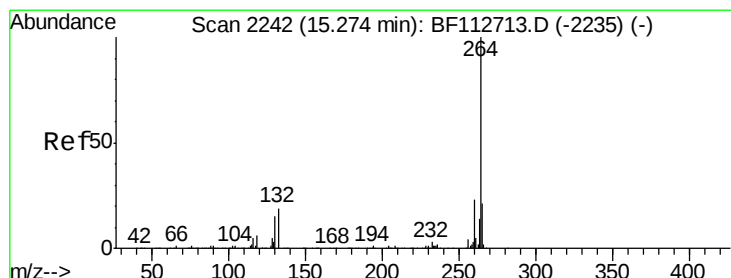
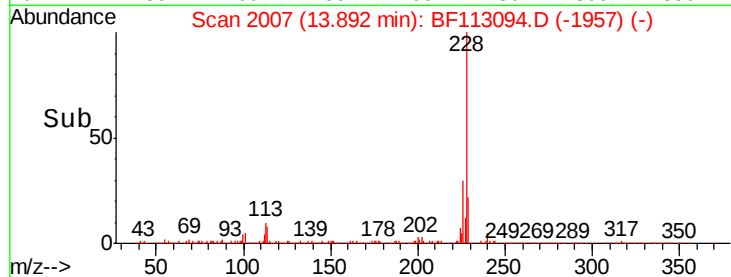
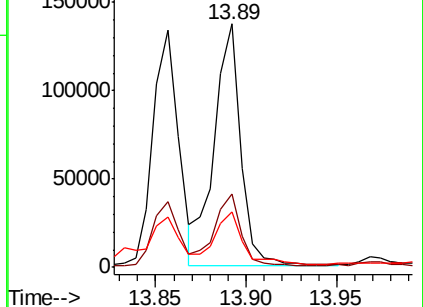
229 22.8 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.28 min Scan# 2243

Delta R.T. 0.01 min

Lab File: BF113094.D

Acq: 18 Mar 2019 17:00

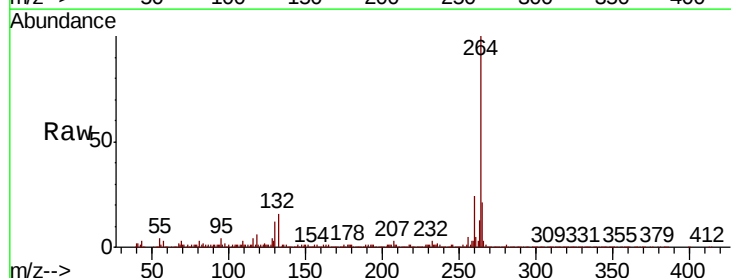
Tgt Ion:264 Resp: 474466

Ion Ratio Lower Upper

264 100

260 23.9 18.7 28.1

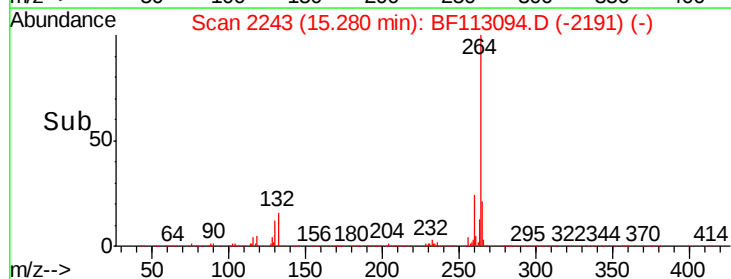
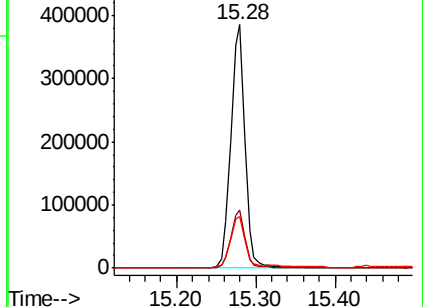
265 21.5 17.2 25.8

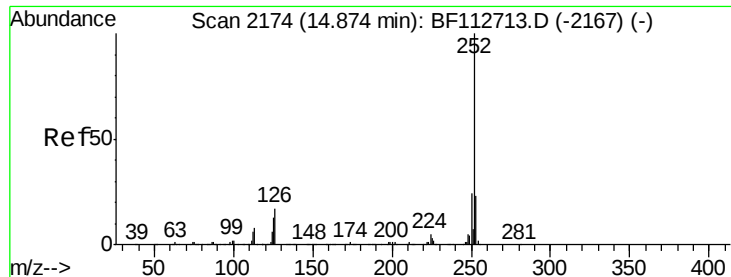


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

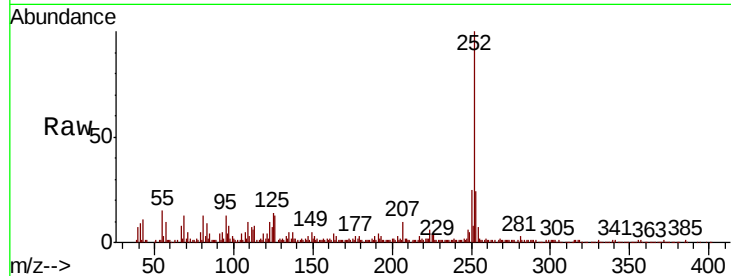




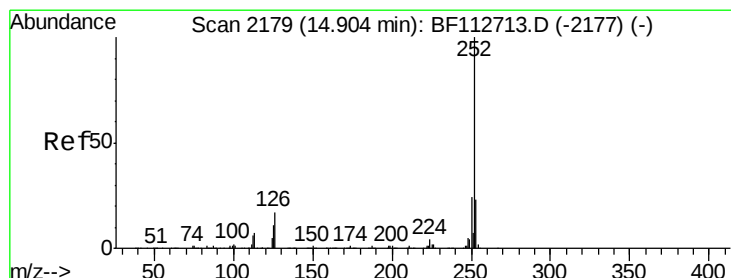
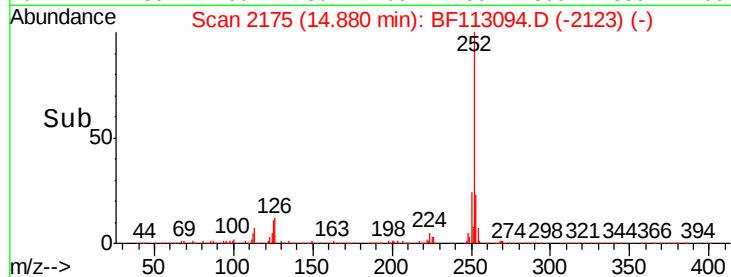
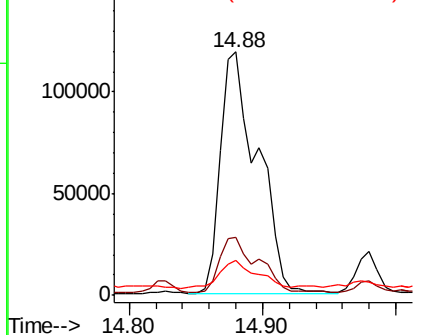
#88  
Benzo(b)fluoranthene  
Concen: 7.545 ng  
RT: 14.88 min Scan# 2175  
Delta R.T. 0.01 min  
Lab File: BF113094.D  
Acq: 18 Mar 2019 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
SB-3(0.5-1.5)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 18.0  | 27.0  |
| 125     | 14.3  | 10.2  | 15.2  |

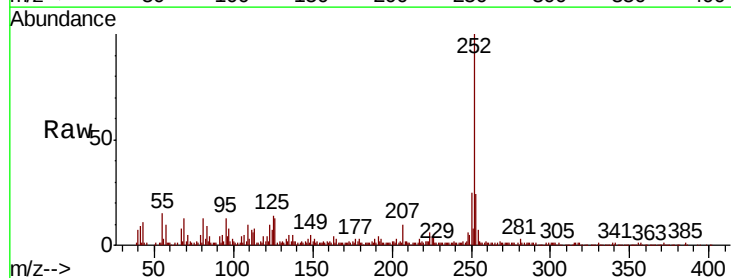


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

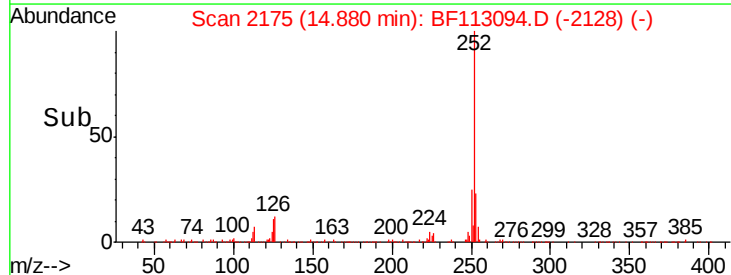
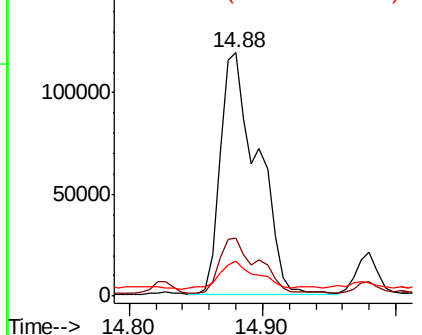


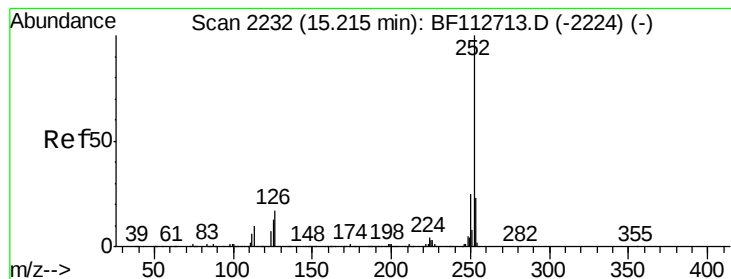
#89  
Benzo(k)fluoranthene  
Concen: 8.329 ng  
RT: 14.88 min Scan# 2175  
Delta R.T. -0.02 min  
Lab File: BF113094.D  
Acq: 18 Mar 2019 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 18.2  | 27.2  |
| 125     | 14.3  | 9.8   | 14.6  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 4.230 ng

RT: 15.22 min Scan# 2232

Delta R.T. -0.00 min

Lab File: BF113094.D

Acq: 18 Mar 2019 17:00

Instrument :

BNA\_F

ClientSampleId :

SB-3(0.5-1.5)

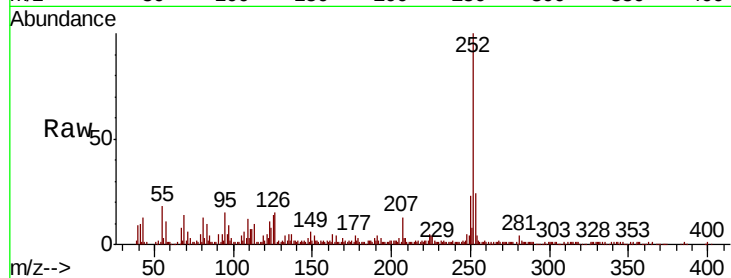
Tgt Ion: 252 Resp: 114813

Ion Ratio Lower Upper

252 100

253 23.7 18.0 27.0

125 14.1 10.7 16.1



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

